

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-fx-4-7.xsd</a></li><li>◦ <a href="#">fpml-ird-4-7.xsd</a></li><li>◦ <a href="#">fpml-eqd-4-7.xsd</a></li><li>◦ <a href="#">fpml-return-swaps-4-7.xsd</a></li><li>◦ <a href="#">fpml-cd-4-7.xsd</a></li><li>◦ <a href="#">fpml-bond-option-4-7.xsd</a></li><li>◦ <a href="#">fpml-correlation-swaps-4-7.xsd</a></li><li>◦ <a href="#">fpml-dividend-swaps-4-7.xsd</a></li><li>◦ <a href="#">fpml-variance-swaps-4-7.xsd</a></li><li>◦ <a href="#">fpml-loan-4-7.xsd</a></li><li>◦ <a href="#">fpml-com-4-7.xsd</a></li><li>◦ <a href="#">fpml-pretrade-4-7.xsd</a></li><li>◦ <a href="#">fpml-tradeexec-4-7.xsd</a></li><li>◦ <a href="#">fpml-posttrade-negotiation-4-7.xsd</a></li><li>◦ <a href="#">fpml-posttrade-execution-4-7.xsd</a></li><li>◦ <a href="#">fpml-allocation-4-7.xsd</a></li><li>◦ <a href="#">fpml-trade-notification-4-7.xsd</a></li><li>◦ <a href="#">fpml-contract-notification-4-7.xsd</a></li><li>◦ <a href="#">fpml-confirmation-4-7.xsd</a></li><li>◦ <a href="#">fpml-posttrade-confirmation-4-7.xsd</a></li><li>◦ <a href="#">fpml-credit-event-notification-4-7.xsd</a></li></ul></li></ul>

	<ul style="list-style-type: none"><li>◦ <a href="#">fpml-reporting-4-7.xsd</a></li><li>◦ <a href="#">fpml-reconciliation-4-7.xsd</a></li><li>◦ <a href="#">fpml-matching-status-4-7.xsd</a></li></ul>
Documentation	<div>products</div> <div>business process messaging</div> <div>pre-trade</div> <div>negotiation and execution</div> <div>notification</div> <div>confirmation</div> <div>reporting and settlement</div> <div>miscellaneous</div>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	http://www.w3.org/XML/1998/namespace
ecore	http://www.eclipse.org/emf/2002/Ecore
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	http://www.w3.org/2000/09/xmldsig#
xsd	http://www.w3.org/2001/XMLSchema

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-fx-4-7.xsd" />
  <xsd:include schemaLocation="fpml-ird-4-7.xsd" />
  <xsd:include schemaLocation="fpml-eqd-4-7.xsd" />
  <xsd:include schemaLocation="fpml-return-swaps-4-7.xsd" />
  <xsd:include schemaLocation="fpml-cd-4-7.xsd" />
  <xsd:include schemaLocation="fpml-bond-option-4-7.xsd" />
  <xsd:include schemaLocation="fpml-correlation-swaps-4-7.xsd" />
  <xsd:include schemaLocation="fpml-dividend-swaps-4-7.xsd" />
  <xsd:include schemaLocation="fpml-variance-swaps-4-7.xsd" />
  <xsd:include schemaLocation="fpml-loan-4-7.xsd" />
  <xsd:include schemaLocation="fpml-com-4-7.xsd" />
  <xsd:include schemaLocation="fpml-pretrade-4-7.xsd" />
  <xsd:include schemaLocation="fpml-tradeexec-4-7.xsd" />
  <xsd:include schemaLocation="fpml-posttrade-negotiation-4-7.xsd" />
  <xsd:include schemaLocation="fpml-posttrade-execution-4-7.xsd" />
  <xsd:include schemaLocation="fpml-allocation-4-7.xsd" />
```

```
<xsd:include schemaLocation="fpml-trade-notification-4-7.xsd"/>
<xsd:include schemaLocation="fpml-contract-notification-4-7.xsd"/>
<xsd:include schemaLocation="fpml-confirmation-4-7.xsd"/>
<xsd:include schemaLocation="fpml-posttrade-confirmation-4-7.xsd"/>
<xsd:include schemaLocation="fpml-credit-event-notification-4-7.xsd"/>
<xsd:include schemaLocation="fpml-reporting-4-7.xsd"/>
<xsd:include schemaLocation="fpml-reconciliation-4-7.xsd"/>
<xsd:include schemaLocation="fpml-matching-status-4-7.xsd"/>
...
</xsd:schema>
```

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## Global Declarations

### Element: FpML

Name	FpML
Type	<a href="#">Document</a>
Niltable	no
Abstract	no
Documentation	The FpML element forms the root for any conforming FpML instance document. The actual structure of the document is determined by setting the 'type' attribute to an appropriate derived subtype of the complex type Document.

#### Logical Diagram



#### XML Instance Representation

```
<FpML
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

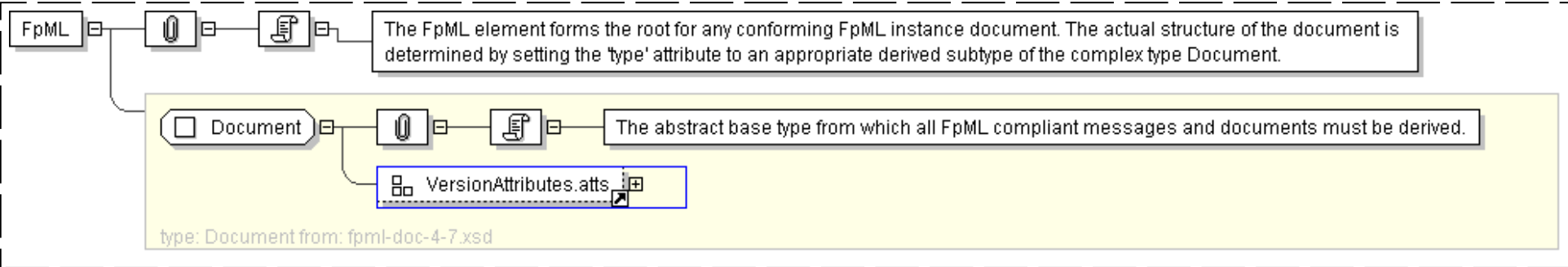
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
```

(e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

"/>

Diagram



Schema Component Representation

```
<xsd:element name="FpML" type="Document" />
```

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Global Definitions

Complex Type: ValuationDocument

Super-types:	<a href="#">DataDocument</a> < <b>ValuationDocument</b> (by extension)
Sub-types:	None

Name	ValuationDocument
Abstract	no
Documentation	A type defining a content model that includes valuation (pricing and risk) data without expressing any processing intention.

XML Instance Representation

```
<...  
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
'Indicate which version of the FpML Schema an FpML message adheres to.'  
"  
expectedBuild=" xsd:positiveInteger [0..1]  
'This optional attribute can be supplied by a message creator in an FpML instance to
```



*specify which build number of the schema was used to define the message when it was generated.'*

"

actualBuild="5 [0..1]

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

">

<validation> Validation </validation> [0..\*]

Start Choice [1]

<trade> Trade </trade> [0..\*]

*'The root element in an FpML trade document.'*

<portfolio> Portfolio </portfolio> [0..\*]

*'An arbitrary grouping of trade references (and possibly other portfolios).'*

<event> ... </event> [1..\*]

*'A business event.'*

End Choice

<party> Party </party> [0..\*]

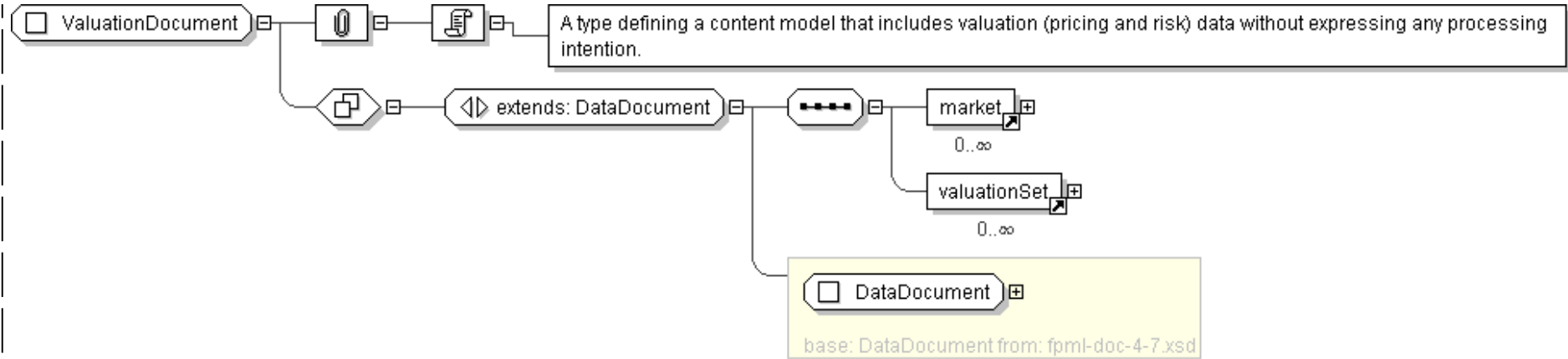
*'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'*

<market> ... </market> [0..\*]

<valuationSet> ... </valuationSet> [0..\*]

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="ValuationDocument">
  <xsd:complexContent>
    <xsd:extension base="DataDocument">
      <xsd:sequence>
        <xsd:element ref="market" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="valuationSet" minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:      [Address](#) < AusAddress (by extension)

Sub-types:      • [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... <b>country</b>="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start <u>Choice</u> [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <u>AusStates</u> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
---

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" <u>Address</u> "&gt; &lt;sequence&gt; &lt;element name="state" type=" <u>AusStates</u> "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}" /&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
---

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

# Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-posttrade-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-posttrade-4-7.xsd"/>
  ...
</xsd:schema>
```

## Global Definitions

### Complex Type: AllocationAmended

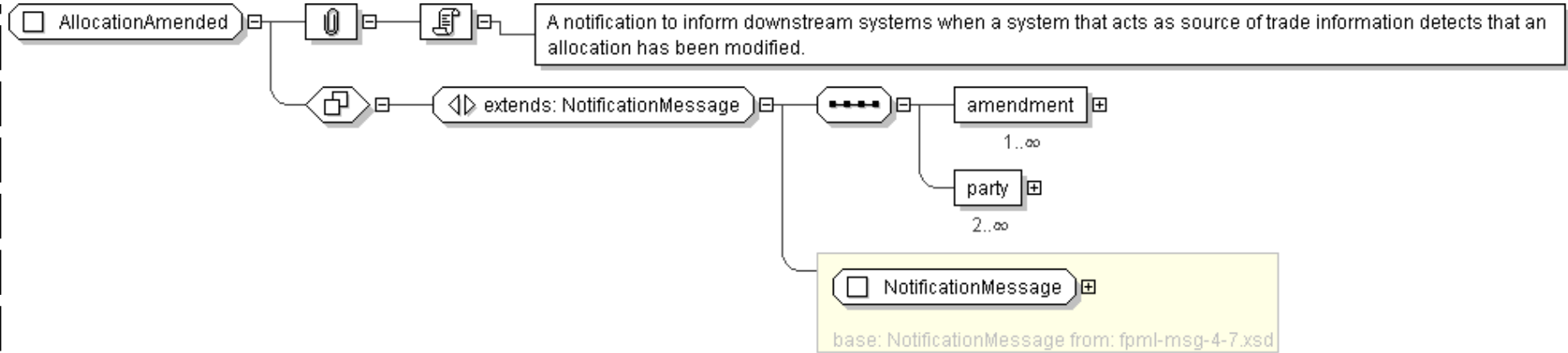
Super-types:	<a href="#">NotificationMessage</a> < <b>AllocationAmended</b> (by extension)
Sub-types:	None

Name	AllocationAmended
Abstract	no
Documentation	A notification to inform downstream systems when a system that acts as source of trade information detects that an allocation has been modified.

#### XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
  ">
    <header> NotificationMessageHeader </header> [1]
    <validation> Validation </validation> [0..*]
    <amendment> TradeAmendment </amendment> [1..*]
    <party> Party </party> [2..*]
  </...>
```

#### Diagram



Schema Component Representation

```
<xsd:complexType name="AllocationAmended">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="amendment" type=" TradeAmendment " maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: AllocationCancelled

Super-types:	<a href="#">NotificationMessage</a> < <b>AllocationCancelled</b> (by extension)
Sub-types:	None

Name	AllocationCancelled
Abstract	no
Documentation	A notification to inform downstream systems when a system that acts as source of trade information detects that an allocation has been cancelled.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
```



```
expectedBuild=" xsd:positiveInteger [0..1]
```

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

```
"
```

```
actualBuild="5 [0..1]
```

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

>

```
<header> NotificationMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
Start Choice [1..*]
```

```
<trade> Trade </trade> [1]
```

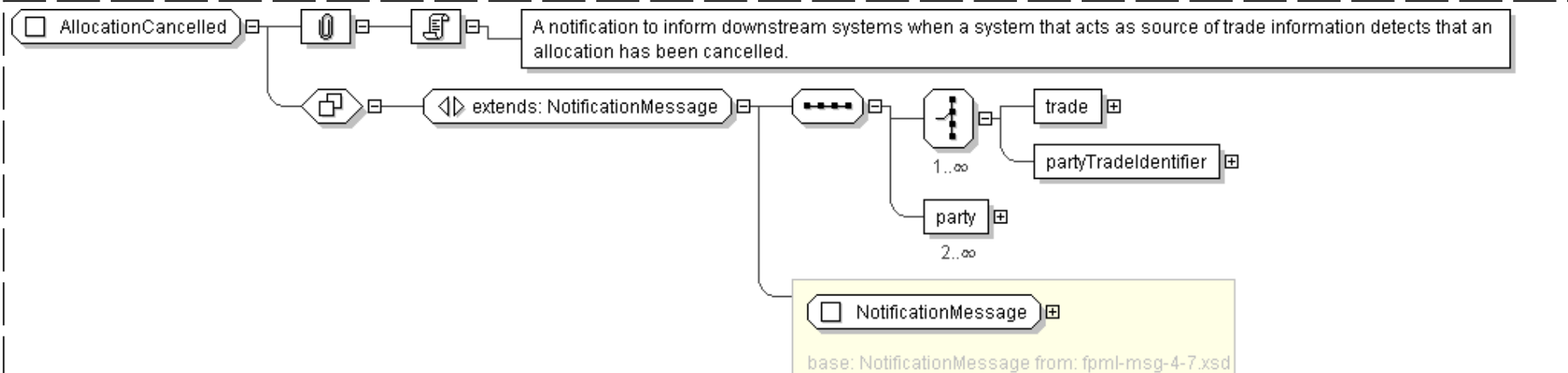
```
<partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1]
```

```
End Choice
```

```
<party> Party </party> [2..*]
```

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="AllocationCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:choice maxOccurs="unbounded">
          <xsd:element name="trade" type=" Trade " />
```

```

        <xsd:element name="partyTradeIdentifier" type=" PartyTradeIdentifier " />
    </xsd:choice>
    <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

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Complex Type: **AllocationCreated**

Super-types:	<a href="#">NotificationMessage</a> < <b>AllocationCreated</b> (by extension)
Sub-types:	None

Name	AllocationCreated
Abstract	no
Documentation	A notification to inform downstream systems when a system that acts as source of trade information detects that a new allocation has been created.

XML Instance Representation

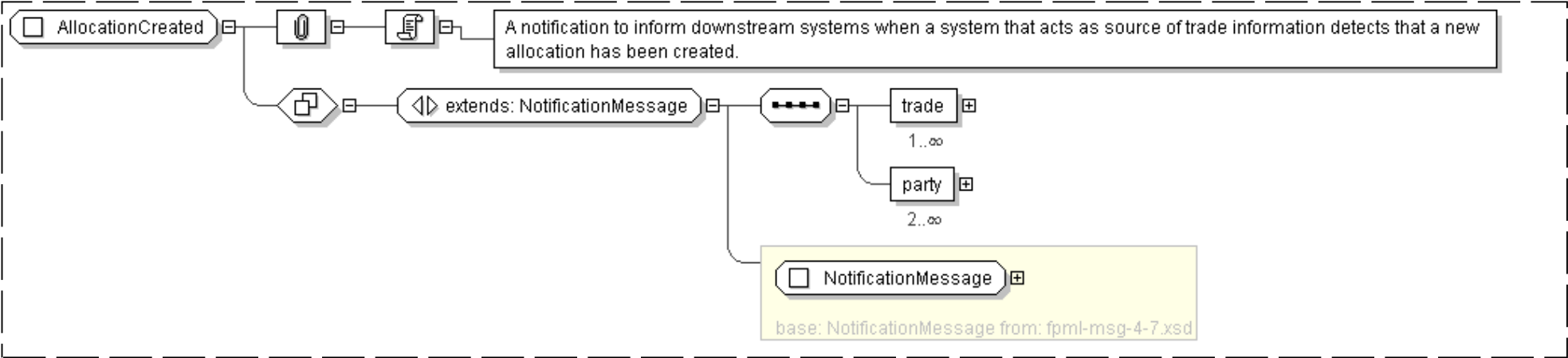
```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <trade> Trade </trade> [1..*]
  <party> Party </party> [2..*]

```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AllocationCreated">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: RequestAllocation

Super-types:	<a href="#">RequestMessage</a> < <b>RequestAllocation</b> (by extension)
Sub-types:	None

Name	RequestAllocation
Abstract	no
Documentation	Message used in order to initiate the allocation process.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
```

'Indicate which version of the FpML Schema an FpML message adheres to.'

"

expectedBuild=" xsd:positiveInteger [0..1]

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

actualBuild="**5** [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> RequestMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

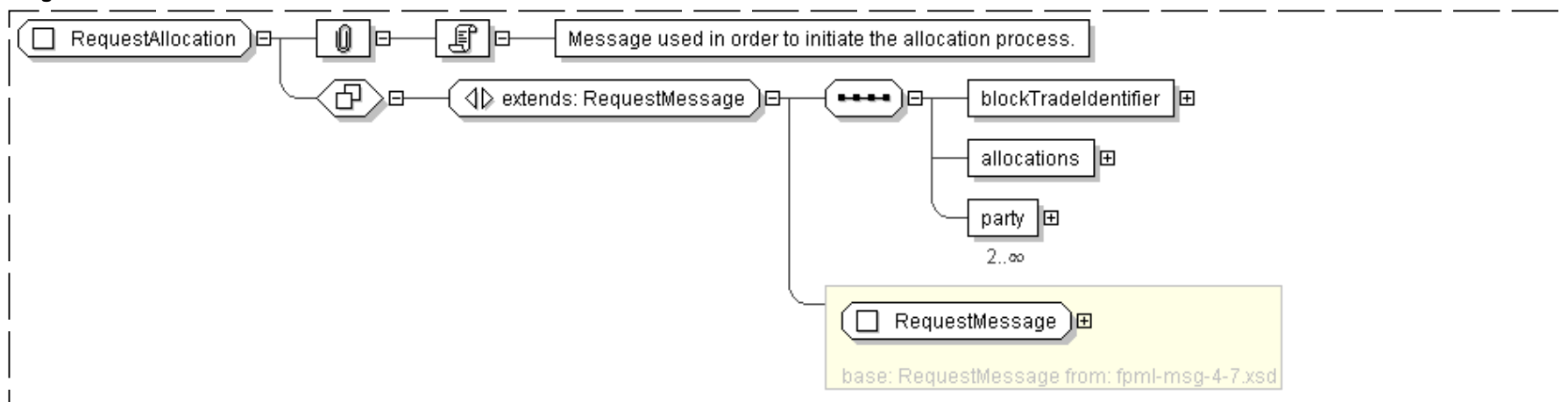
<blockTradeIdentifier> BlockTradeIdentifier </blockTradeIdentifier> [1]

<allocations> Allocations </allocations> [1]

<party> Party </party> [2..\*]

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="RequestAllocation">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage ">
      <xsd:sequence>
        <xsd:element name="blockTradeIdentifier" type=" BlockTradeIdentifier "/>
        <xsd:element name="allocations" type=" Allocations "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types: [Address](#) < AusAddress (by extension)  
Sub-types: 

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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  - [Complex Type: \*\*Index\*\*](#)
  - [Complex Type: \*\*Lien\*\*](#)
  - [Complex Type: \*\*Loan\*\*](#)
  - [Complex Type: \*\*Mortgage\*\*](#)



Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6828 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-shared-4-7.xsd</a></li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6828 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

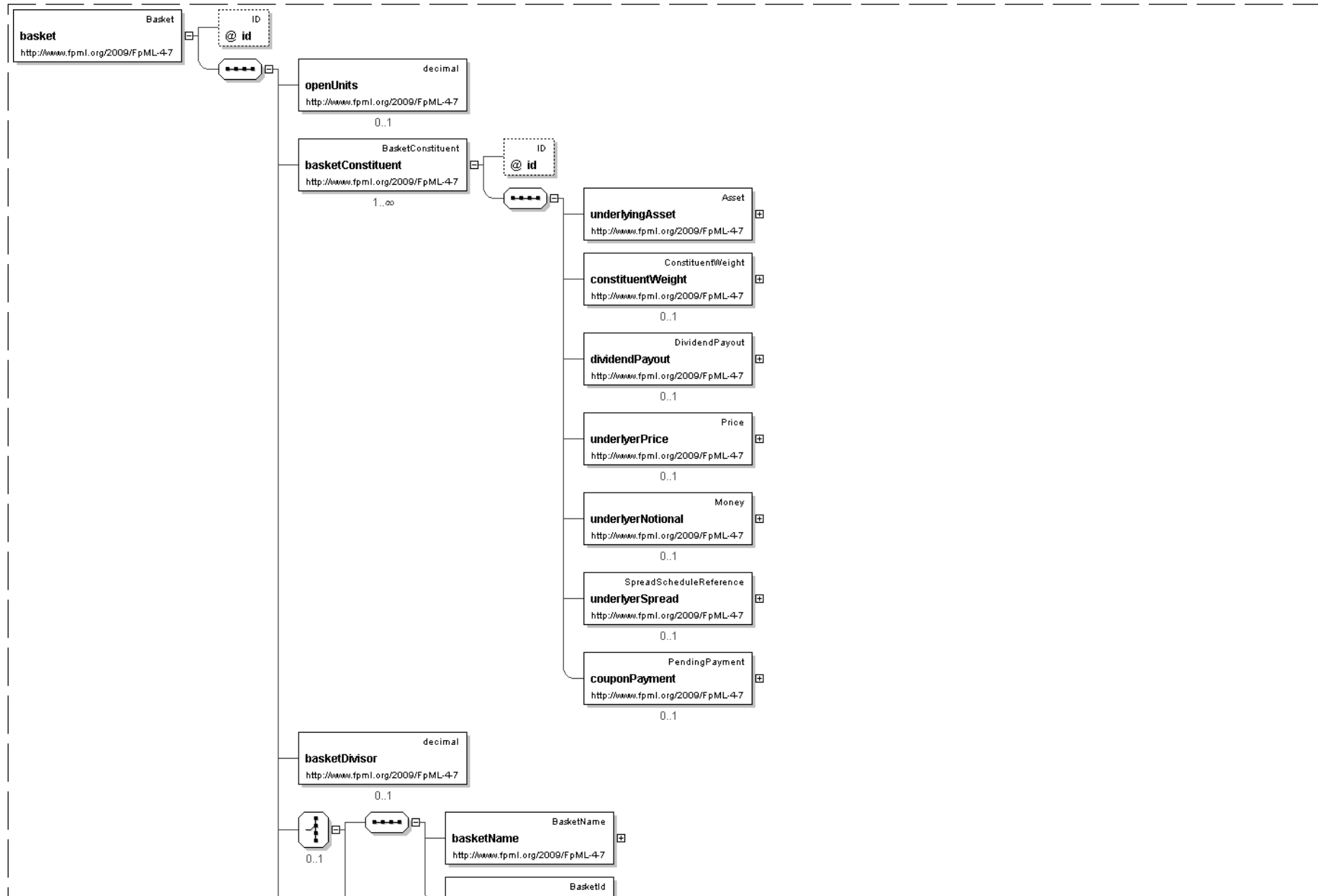
Global Declarations

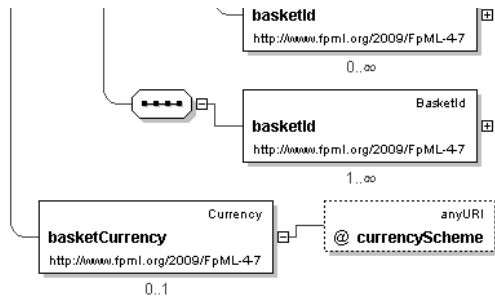
Element: **basket**

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

<b>Name</b>	basket
<b>Type</b>	<a href="#">Basket</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	Defines the underlying asset when it is a basket.

## Logical Diagram





### XML Instance Representation

```
<basket
id="xsd:ID [0..1]*">
  <openUnits> xsd:decimal </openUnits> [0..1]

  'The number of units (index or securities) that constitute the underlyer of the swap. In
  the case of a basket swap, this element is used to reference both the number of basket
  units, and the number of each asset components of the basket when these are expressed
  in absolute terms.'

  <basketConstituent> BasketConstituent </basketConstituent> [1..*]

  'Describes each of the components of the basket.'

  <basketDivisor> xsd:decimal </basketDivisor> [0..1]

  'Specifies the basket divisor amount. This value is normally used to adjust the
  constituent weight for pricing or to adjust for dividends, or other corporate actions.'
```

```
Start Group: BasketIdentifier.model [0..1]
```

*'Reuses the group that specifies a name and an identifier for a given basket.'*

```
Start Choice [1]
<basketName> BasketName </basketName> [1]
'The name of the basket expressed as a free format string. FpML does not define usage rules
for this element.'

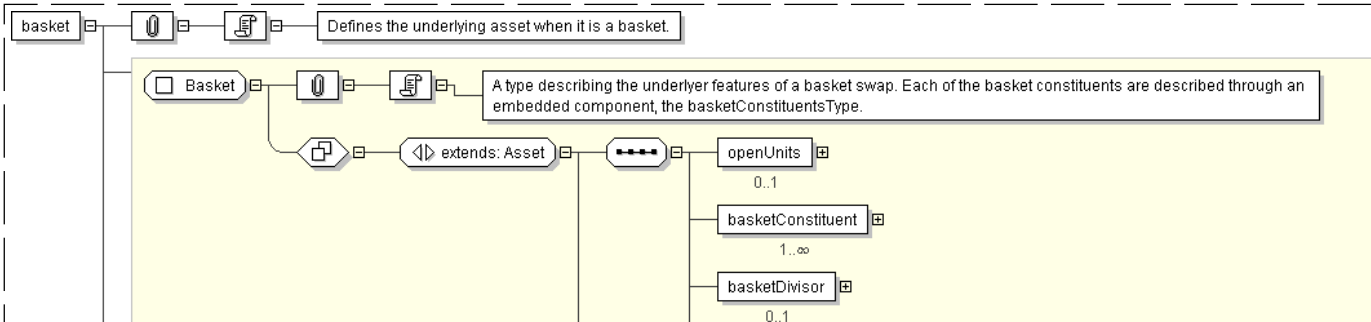
<basketId> BasketId </basketId> [0..*]
'A CDS basket identifier'

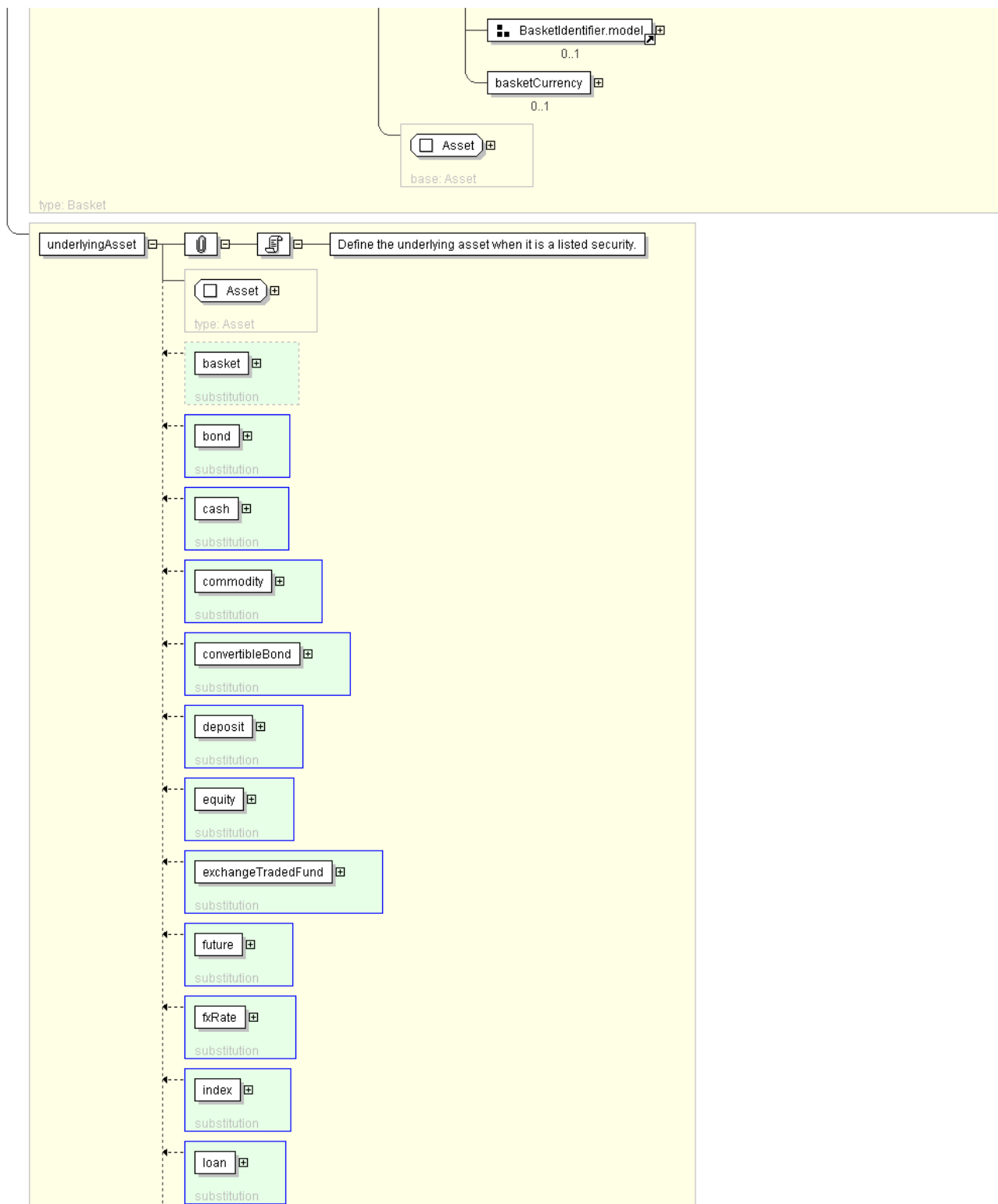
<basketId> BasketId </basketId> [1..*]
'A CDS basket identifier'
```

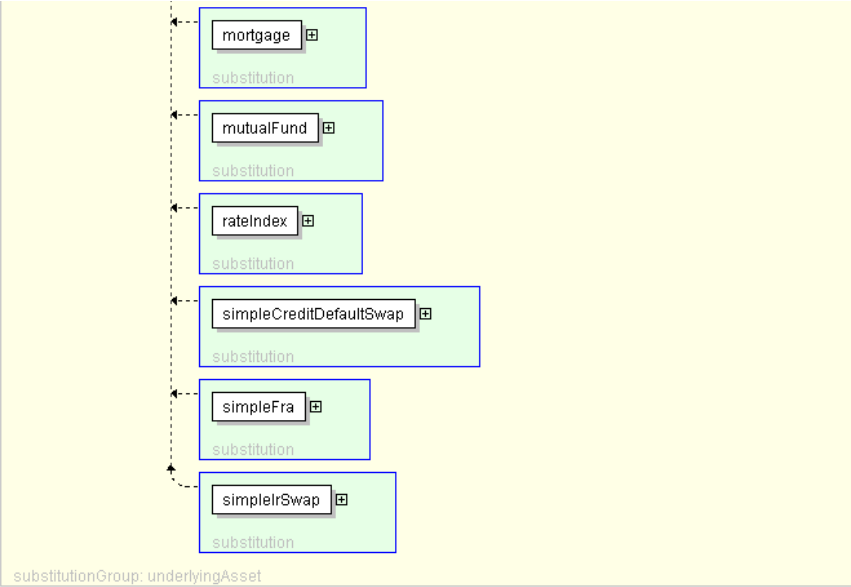
```
End Choice
End Group: BasketIdentifier.model
<basketCurrency> Currency </basketCurrency> [0..1]
'Specifies the currency for this basket.'
```

&lt;/basket&gt;

### Diagram







Schema Component Representation

```
<xsd:element name="basket" type="Basket" substitutionGroup="underlyingAsset"/>
```

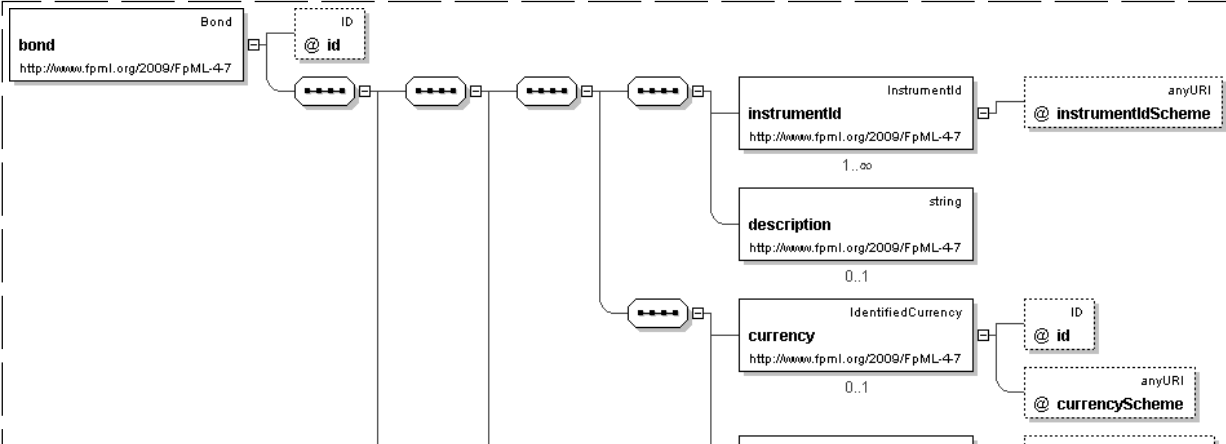
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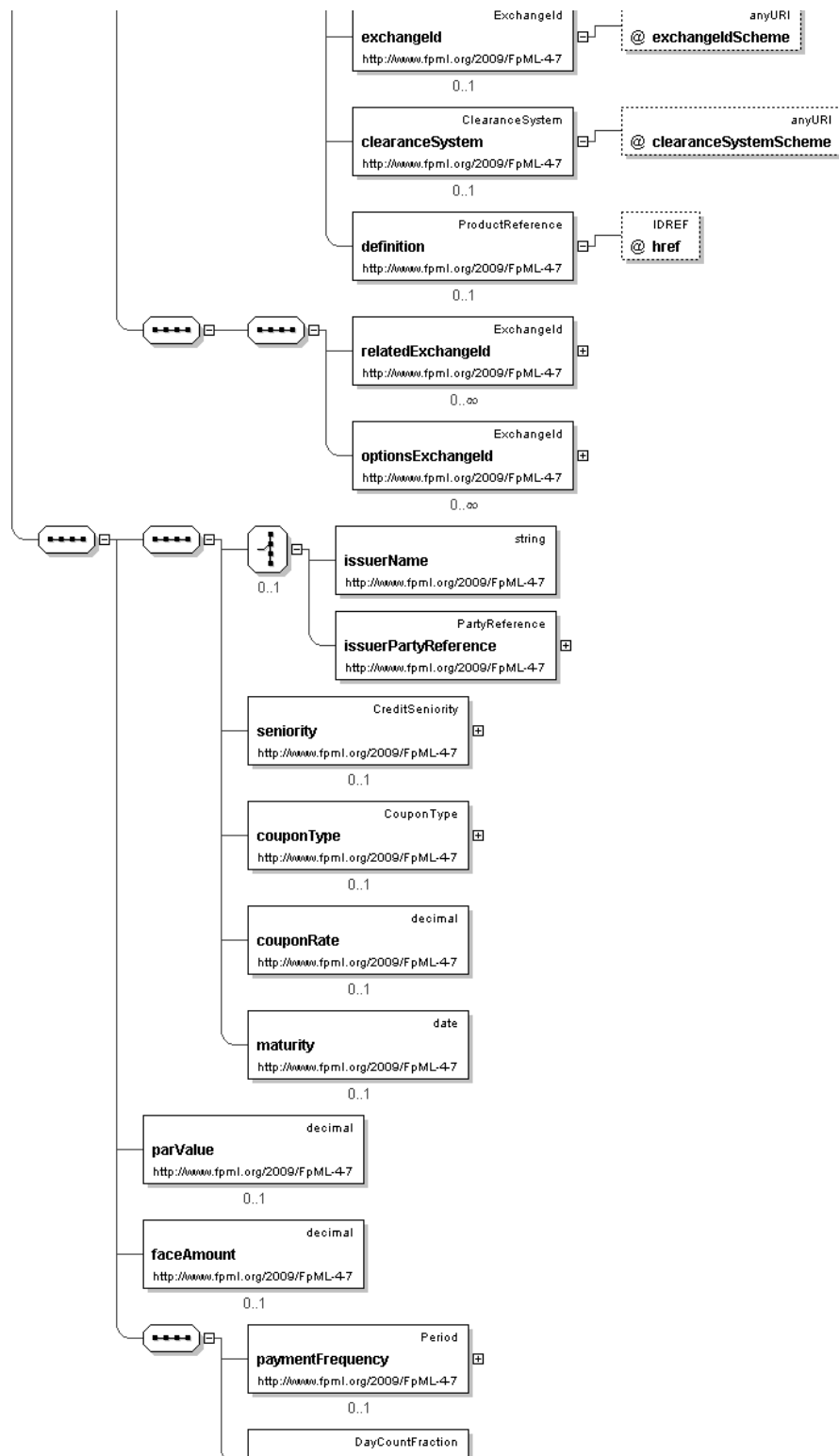
Element: **bond**

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	bond
Used by (from the same schema document)	Model Group <a href="#">BondChoice.model</a>
Type	<a href="#">Bond</a>
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is a bond.

Logical Diagram





## XML Instance Representation

```

<bond
  id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
  as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
  greater detail. In case of inconsistency between the terms of the simple product and those
  of the detailed definition, the values in the simple product override those in the
  detailed definition.'

  <relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
  'A short form unique identifier for a related exchange. If the element is not present then
  the exchange shall be the primary exchange on which listed futures and options on
  the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
  in the ISDA 2002 Equity Derivatives Definitions.'

  <optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
  'A short form unique identifier for an exchange on which the reference option contract
  is listed. This is to address the case where the reference exchange for the future is
  different than the one for the option. The options Exchange is referenced on share options
  when Merger Elections are selected as Options Exchange Adjustment.'

  Start Choice [0..1]
  'Specifies the issuer name of a fixed income security or convertible bond. This name can
  either be explicitly stated, or specified as an href into another element of the document,
  such as the obligor'

    <issuerName> xsd:string </issuerName> [1]
    <issuerPartyReference> PartyReference </issuerPartyReference> [1]
  End Choice

  <seniority> CreditSeniority </seniority> [0..1]
  'The repayment precedence of a debt instrument.'

  <couponType> CouponType </couponType> [0..1]
  'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'

  <couponRate> xsd:decimal </couponRate> [0..1]
  'Specifies the coupon rate (expressed in percentage) of a fixed income security or
  convertible bond.'

  <maturity> xsd:date </maturity> [0..1]
  'The date when the principal amount of a security becomes due and payable.'

  <parValue> xsd:decimal </parValue> [0..1]
  'Specifies the nominal amount of a fixed income security or convertible bond.'

```

<faceAmount> xsd:decimal </faceAmount> [0..1]

'Specifies the total amount of the issue. Corresponds to the par value multiplied by the number of issued security.'

<paymentFrequency> Period </paymentFrequency> [0..1]

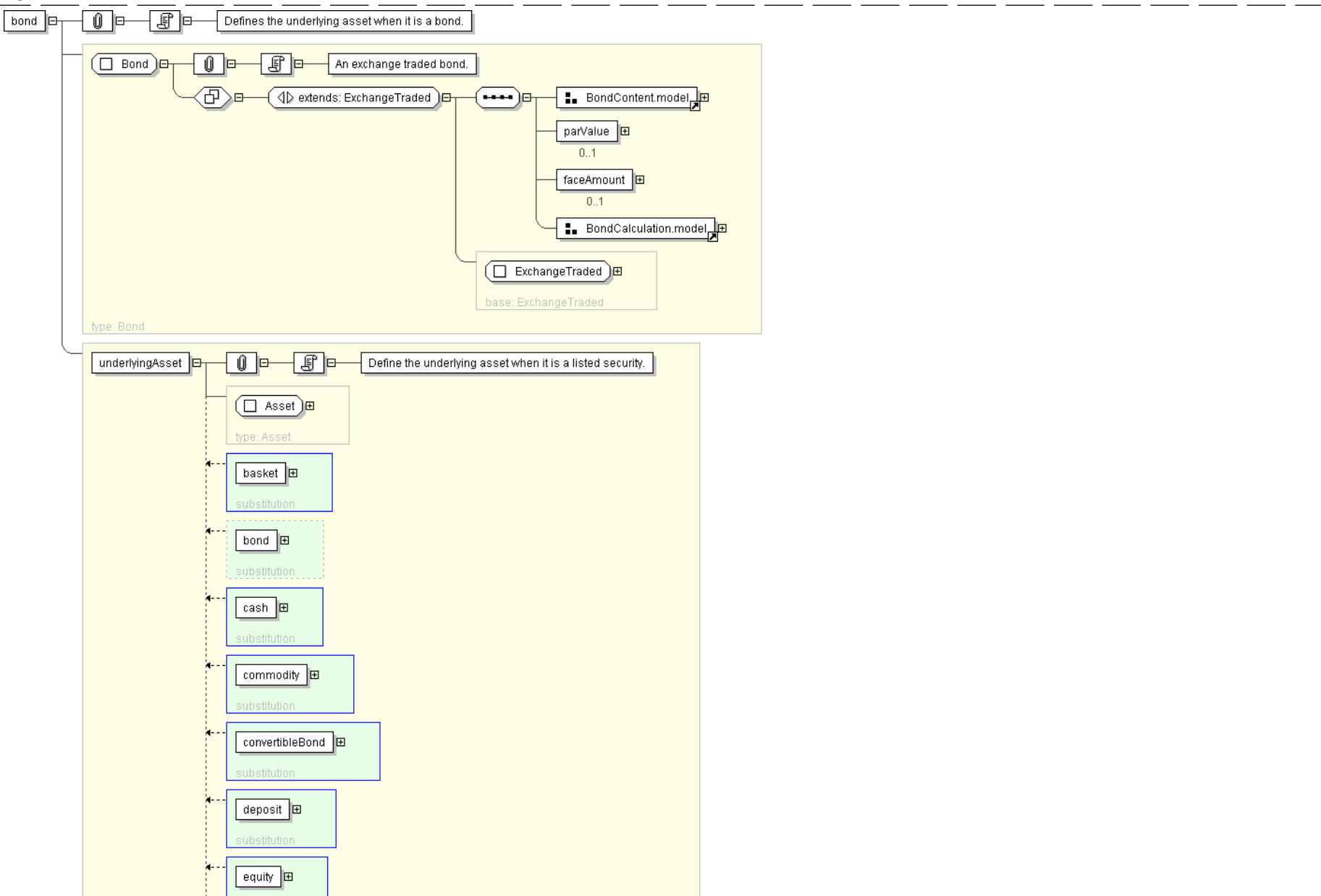
'Specifies the frequency at which the bond pays, e.g. 6M.'

<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]

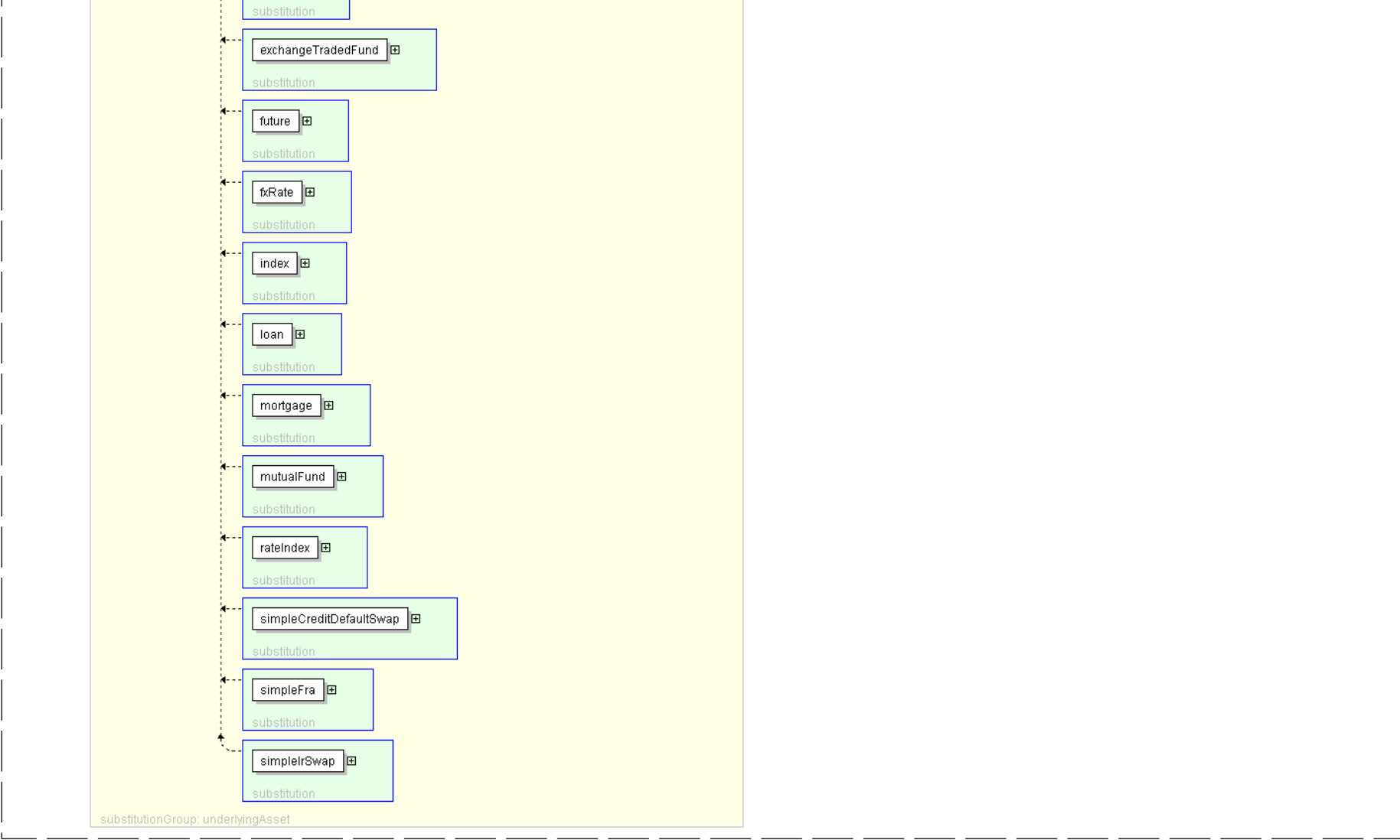
'The day count basis for the bond.'

</bond>

Diagram







Schema Component Representation

```
<xsd:element name="bond" type="Bond" substitutionGroup="underlyingAsset"/>
```

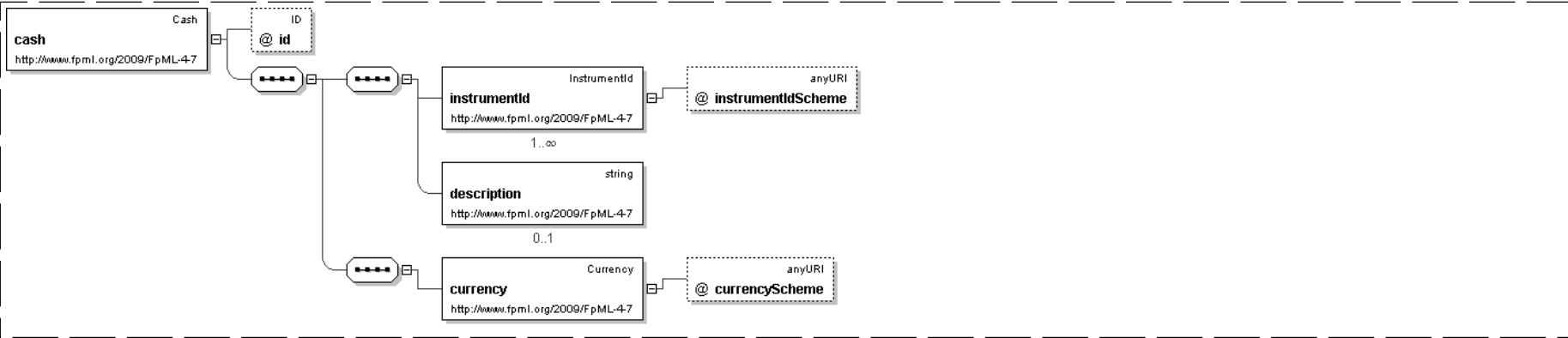
[top](#)

Element: **cash**

- . This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	cash
Type	<a href="#">Cash</a>
Nilable	no
Abstract	no
Documentation	Defines a simple underlying asset type that is a cash payment. Used for specifying discounting factors for future cash flows in the pricing and risk model.

Logical Diagram



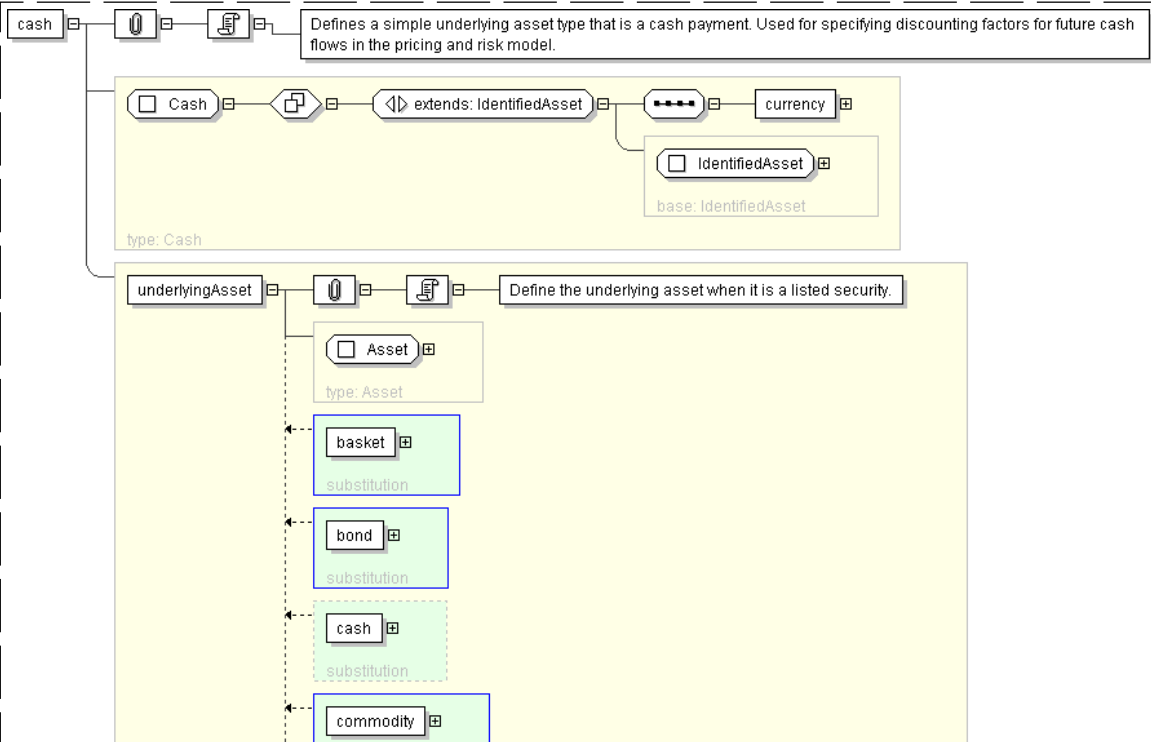
XML Instance Representation

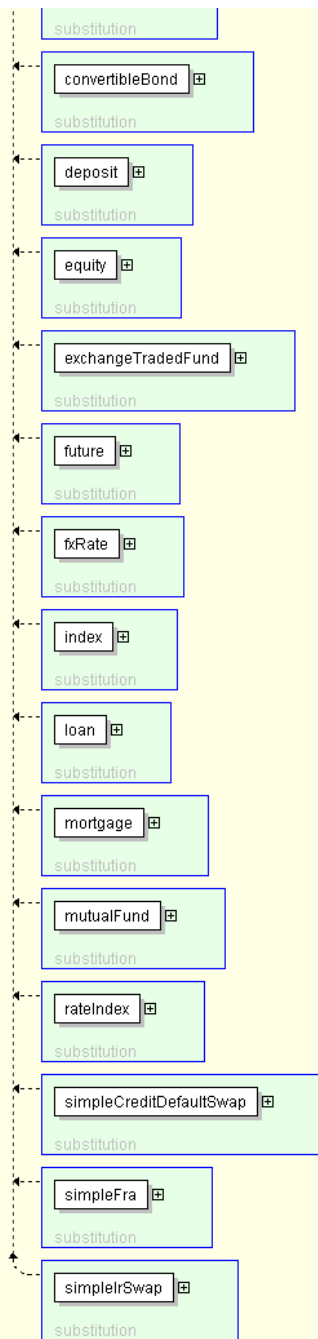
```
<cash
id=" xsd:ID [0..1]*">
<instrumentId> InstrumentId </instrumentId> [1..*]
'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
'Long name of the underlying asset.'

<currency> Currency </currency> [1]
'The currency in which an amount is denominated.'
```

Diagram





substitutionGroup: underlyingAsset

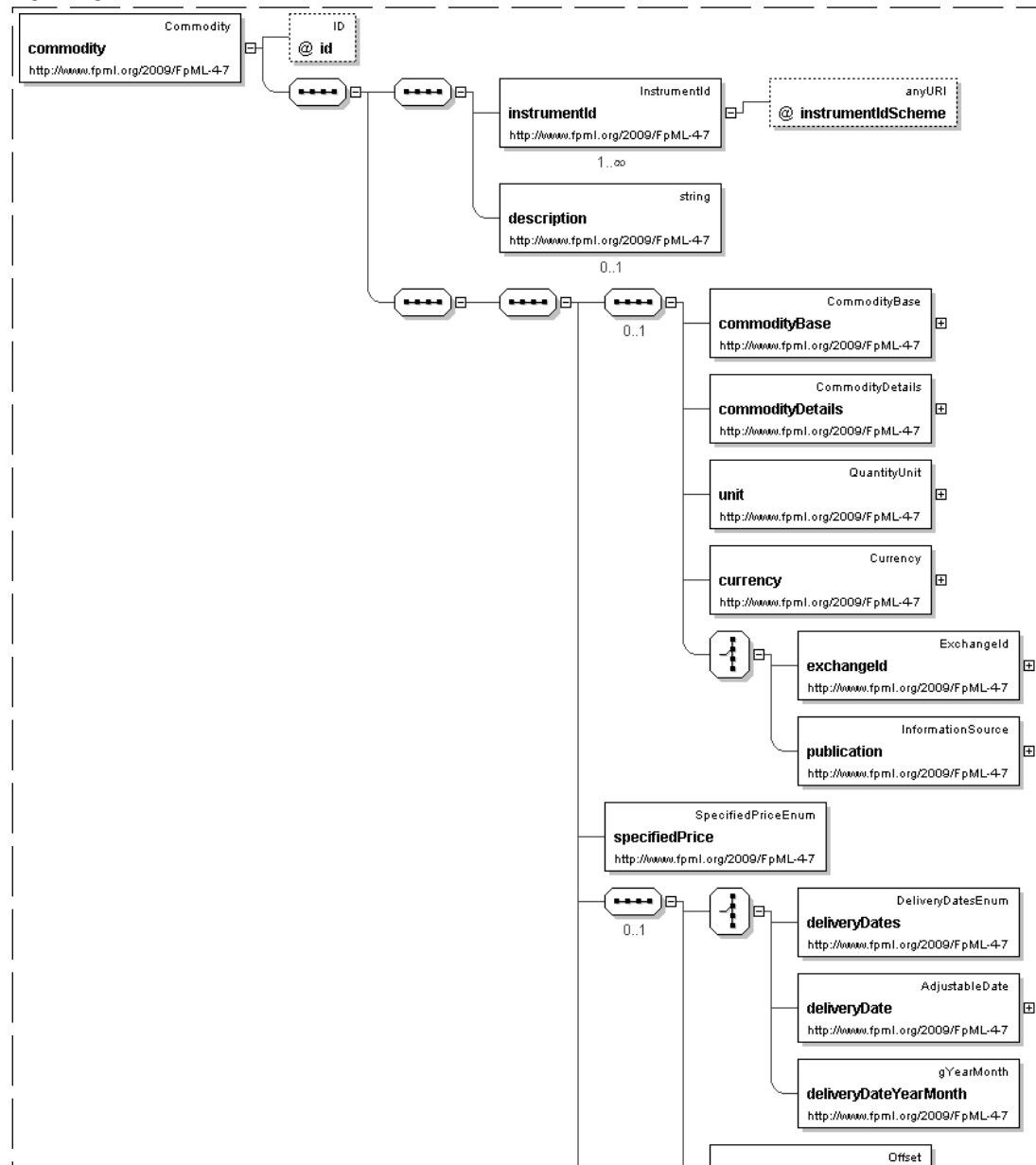
#### Schema Component Representation

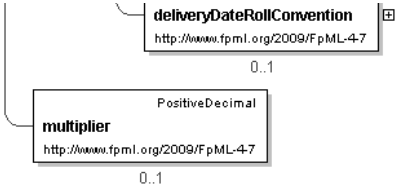
```
<xsd:element name="cash" type="Cash" substitutionGroup="underlyingAsset"/>
```

**Element:** commodity

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

<b>Name</b>	commodity
<b>Type</b>	<a href="#">Commodity</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	Defines the underlying asset when it is a commodity.

**Logical Diagram**



XML Instance Representation

```
<commodity
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  Start Group: CommodityReferencePriceFramework.model [0..1]
    <commodityBase> CommodityBase </commodityBase> [1]
    'A coding scheme value to identify the base type of the commodity being traded. Where
    possible, this should follow the naming convention used in the 2005 ISDA Commodity
    Definitions. For example, \'Oil\'. '

    <commodityDetails> CommodityDetails </commodityDetails> [1]
    'A coding scheme value to identify the commodity being traded more specifically.
    Where possible, this should follow the naming convention used in the 2005 ISDA
    Commodity Definitions. For example, \'Brent\'. '

    <unit> QuantityUnit </unit> [1]
    'A coding scheme value to identify the unit in which the undelryer is denominated.
    Where possible, this should follow the naming convention used in the 2005 ISDA
    Commodity Definitions. '

    <currency> Currency </currency> [1]
    'The currency in which the Commodity Reference Price is published.'

  Start Choice [1]
    <exchangeId> ExchangeId </exchangeId> [1]
    'For those commodities being traded with reference to the price of a listed future,
    the exchange where that future is listed should be specified here.'

    <publication> InformationSource </publication> [1]
    'For those commodities being traded with reference to a price distributed by a
    publication, that publication should be specified here.'

  End Choice
  End Group: CommodityReferencePriceFramework.model
  <specifiedPrice> SpecifiedPriceEnum </specifiedPrice> [1]
  'The Specified Price is not defined in the Commodity Reference Price and so needs to be
  stated in the Underlyer definition as it will impact the calculation of the Floating Price.'

  Start Sequence [0..1]
  Start Choice [1]
    <deliveryDates> DeliveryDatesEnum </deliveryDates> [1]
    'The Delivery Date is a NearbyMonth, for use when the Commodity Transaction references
    Futures Contract.'

    <deliveryDate> AdjustableDate </deliveryDate> [1]
    'The Delivery Date is a fixed, single day.'

    <deliveryDateYearMonth> xsd:gYearMonth </deliveryDateYearMonth> [1]
    'The Delivery Date is a fixed, single month.'

  End Choice
  <deliveryDateRollConvention> Offset </deliveryDateRollConvention> [0..1]
  'Specifies, for a Commodity Transaction that references a listed future via the
```

*deliveryDates* element, the day on which the specified future will roll to the next nearby month when the referenced future expires. If the future will not roll at all - i.e. the price will be taken from the expiring contract, 0 should be specified here. If the future will roll to the next nearby on the last trading day - i.e. the price will be taken from the next nearby on the last trading day, then 1 should be specified and so on.'

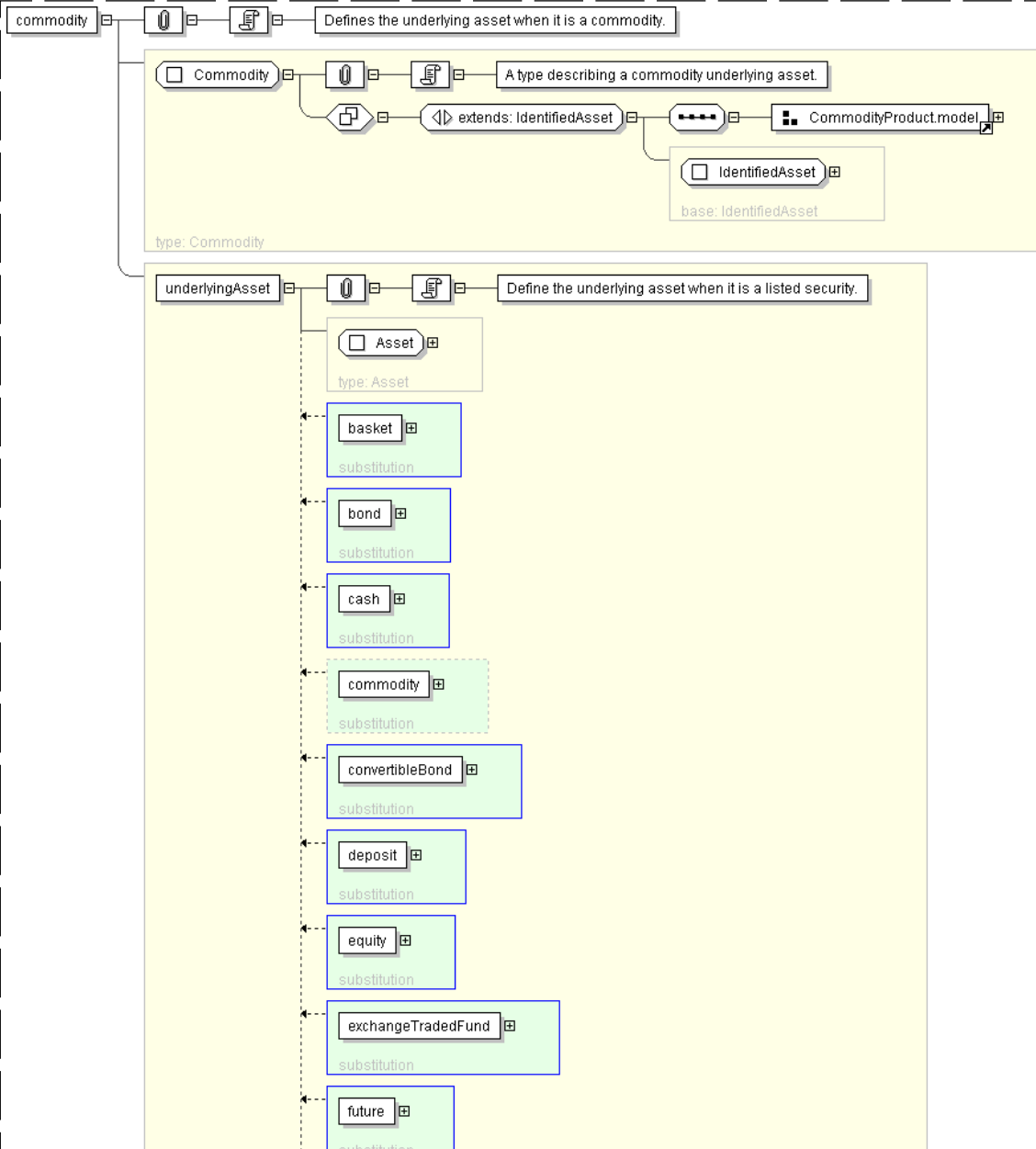
End Sequence

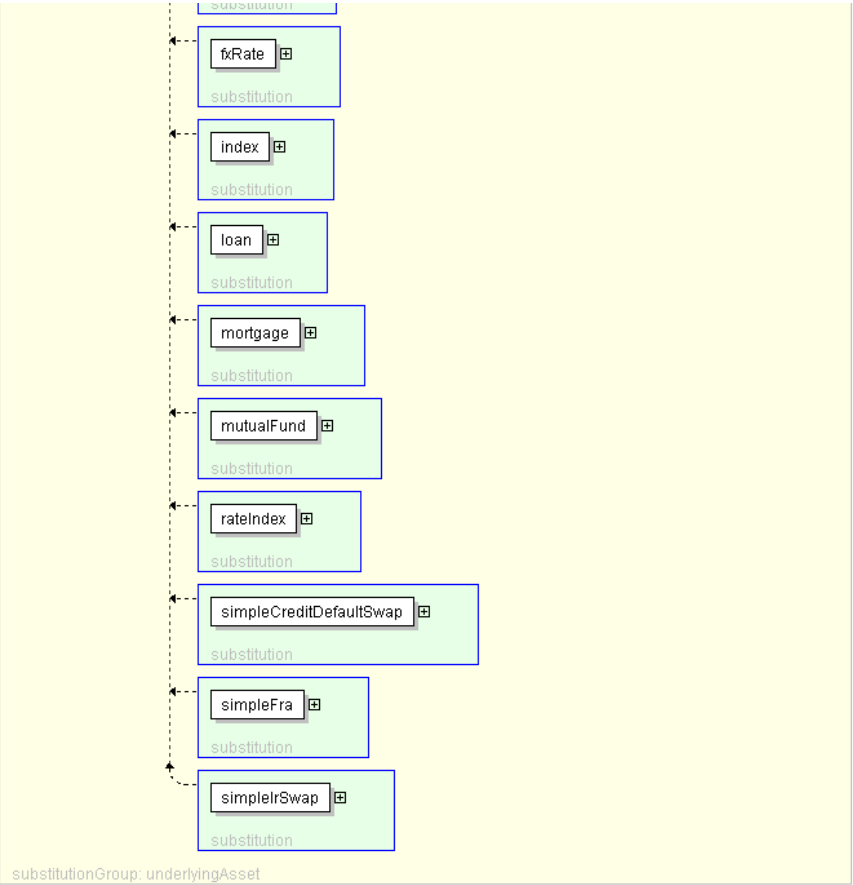
```
<multiplier> PositiveDecimal </multiplier> [0..1]
```

'Specifies the multiplier associated with a Transaction.'

```
</commodity>
```

Diagram





Schema Component Representation

```
<xsd:element name="commodity" type="Commodity" substitutionGroup="underlyingAsset"/>
```

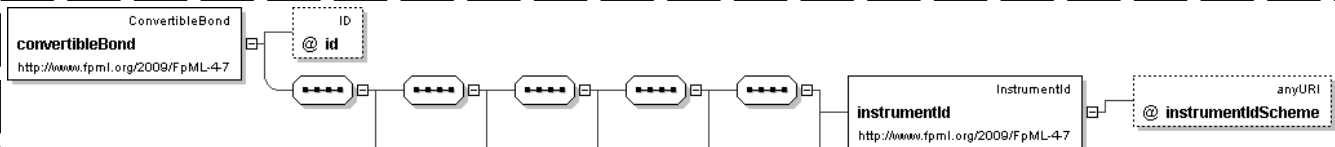
[top](#)

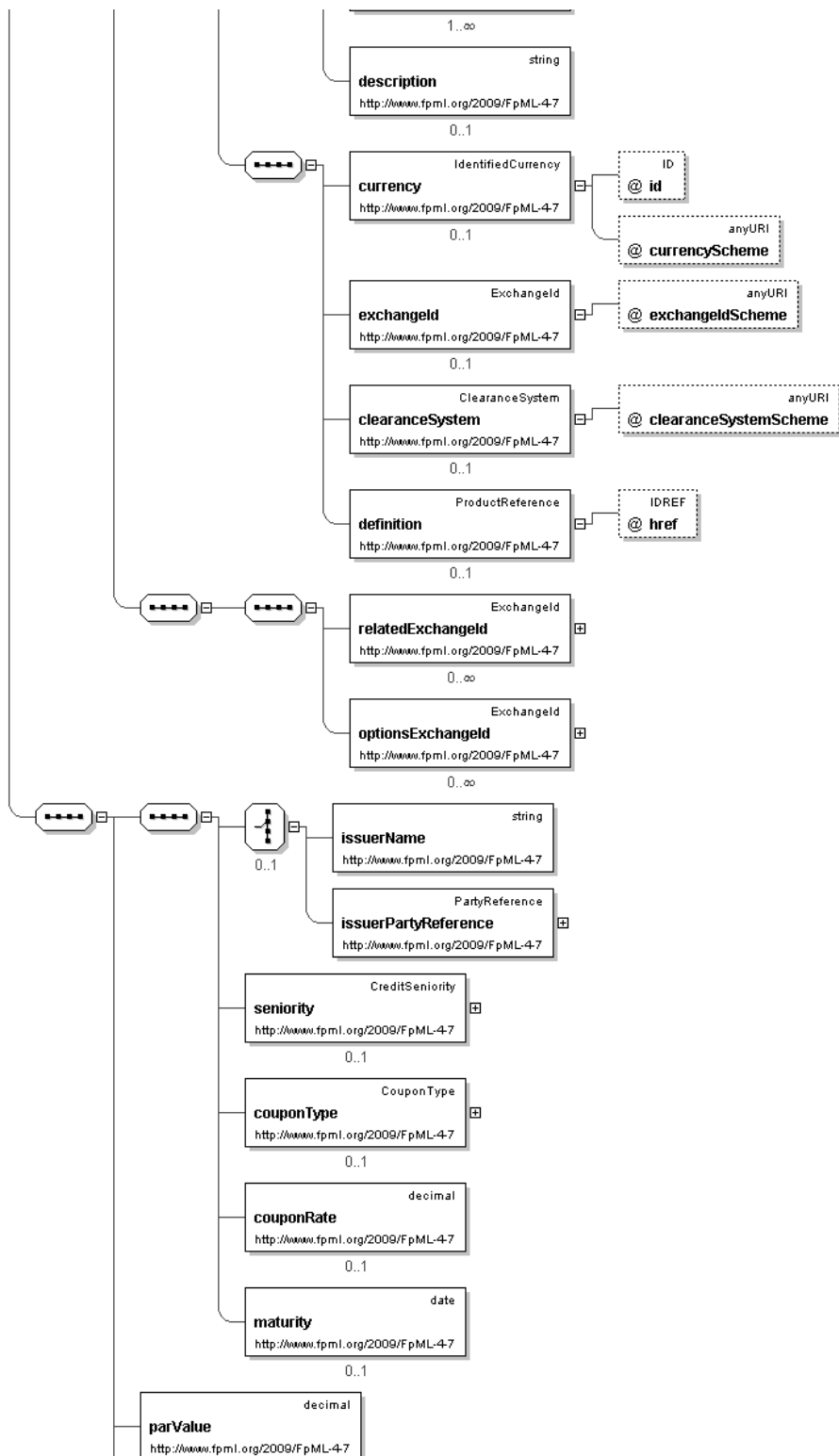
Element: convertibleBond

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

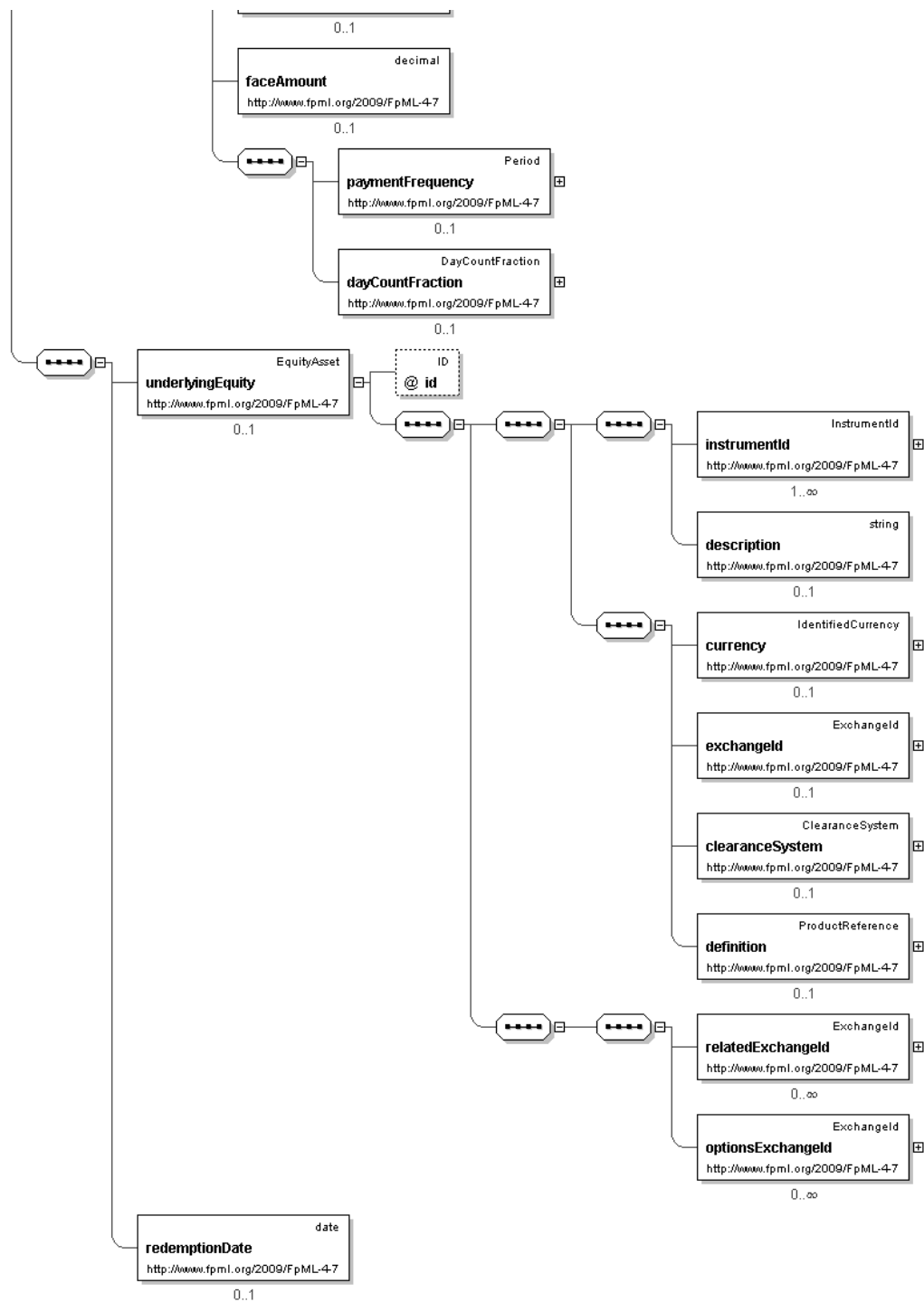
Name	convertibleBond
Used by (from the same schema document)	Model Group <a href="#">BondChoice.model</a>
Type	<a href="#">ConvertibleBond</a>
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is a convertible bond.

Logical Diagram









## XML Instance Representation

```
<convertibleBond
```

```

id=" xsd:ID [0..1]">
<instrumentId> InstrumentId </instrumentId> [1..*]
'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

<relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
different than the one for the option. The options Exchange is referenced on share options
when Merger Elections are selected as Options Exchange Adjustment.'
```

Start [Choice](#) [0..1]

'Specifies the issuer name of a fixed income security or convertible bond. This name can
either be explicitly stated, or specified as an href into another element of the document,
such as the obligor'

```

<issuerName> xsd:string </issuerName> [1]
<issuerPartyReference> PartyReference </issuerPartyReference> [1]
```

End Choice

```
<seniority> CreditSeniority </seniority> [0..1]
```

'The repayment precedence of a debt instrument.'

```
<couponType> CouponType </couponType> [0..1]
```

'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'

```
<couponRate> xsd:decimal </couponRate> [0..1]
```

'Specifies the coupon rate (expressed in percentage) of a fixed income security or
convertible bond.'

```
<maturity> xsd:date </maturity> [0..1]
```

'The date when the principal amount of a security becomes due and payable.'

```
<parValue> xsd:decimal </parValue> [0..1]
```

'Specifies the nominal amount of a fixed income security or convertible bond.'

```
<faceAmount> xsd:decimal </faceAmount> [0..1]
```

'Specifies the total amount of the issue. Corresponds to the par value multiplied by the
number of issued security.'

```
<paymentFrequency> Period </paymentFrequency> [0..1]
```

'Specifies the frequency at which the bond pays, e.g. 6M.'

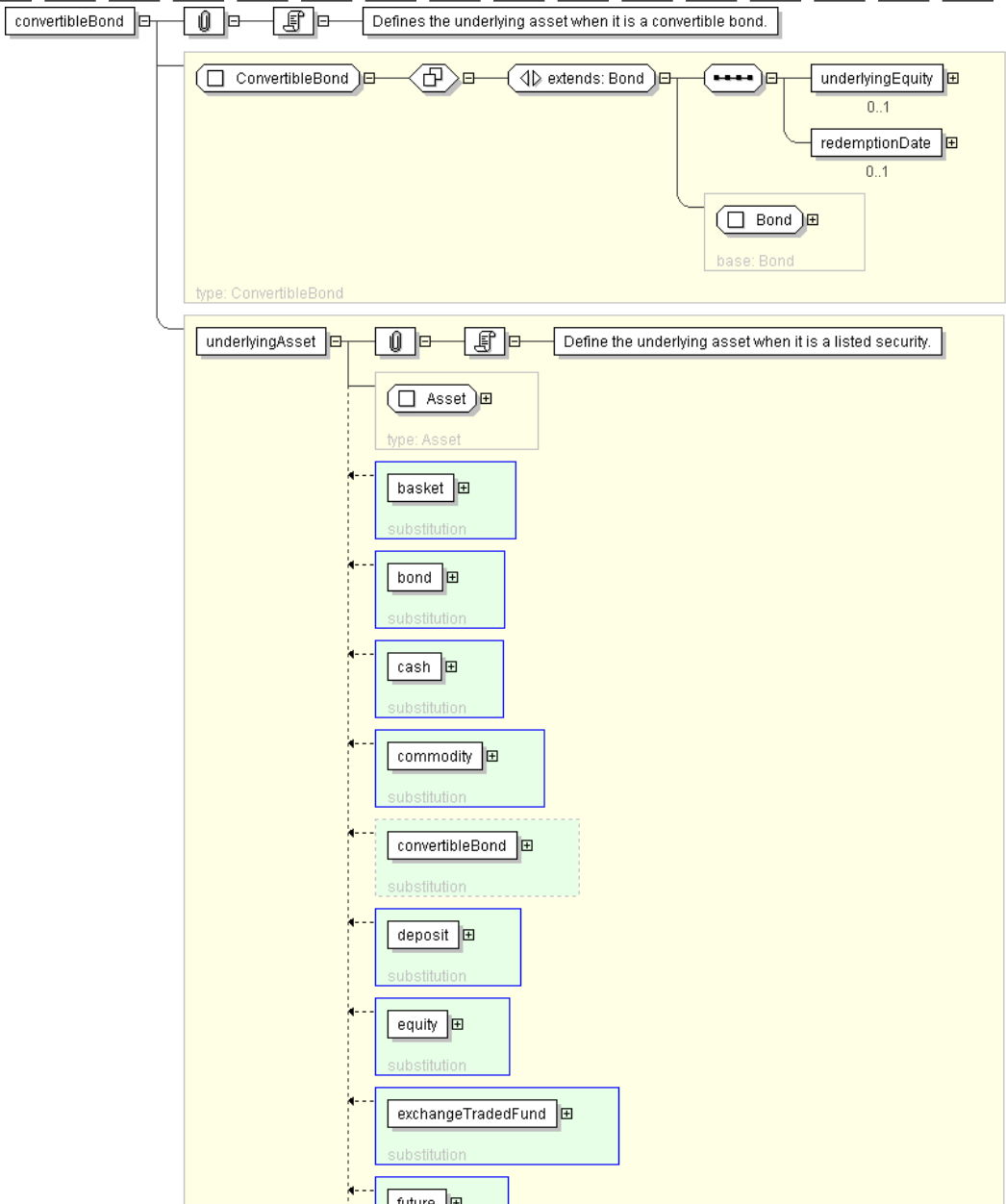
```
<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
'The day count basis for the bond.'
```

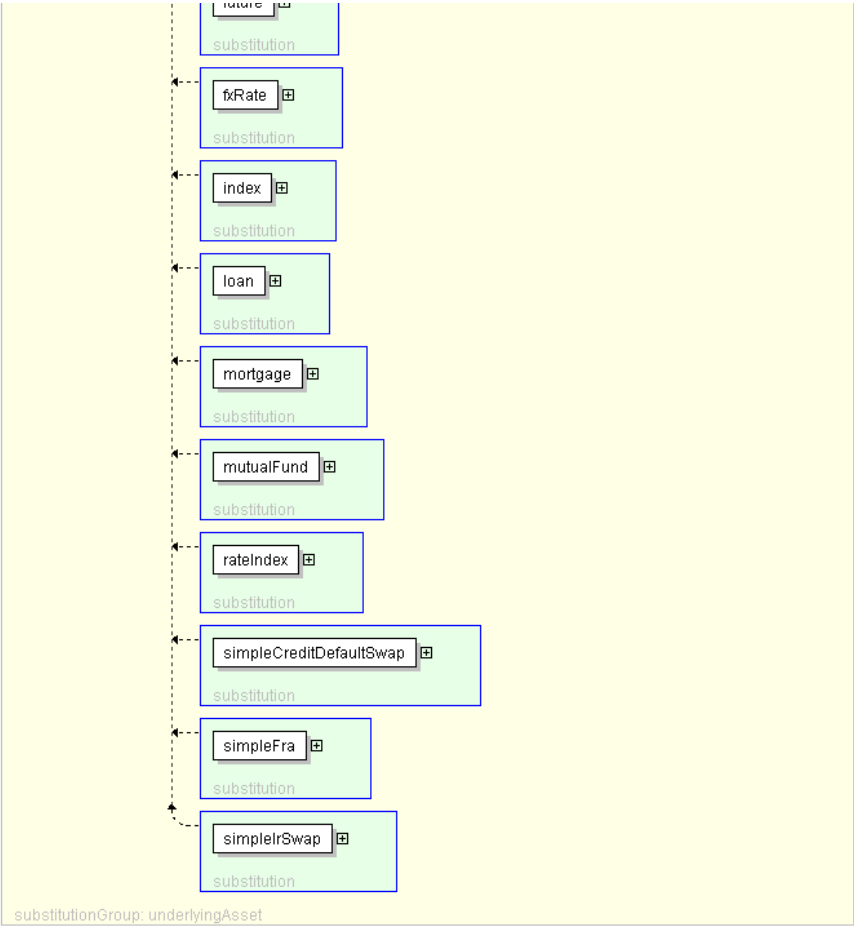
```
<underlyingEquity> EquityAsset </underlyingEquity> [0..1]
'Specifies the equity in which the convertible bond can be converted.'
```

```
<redemptionDate> xsd:date </redemptionDate> [0..1]
'Earlier date between the convertible bond put dates and its maturity date.'
```

```
</convertibleBond>
```

Diagram





Schema Component Representation

```
<xsd:element name="convertibleBond" type="ConvertibleBond"
  substitutionGroup="underlyingAsset"/>
```

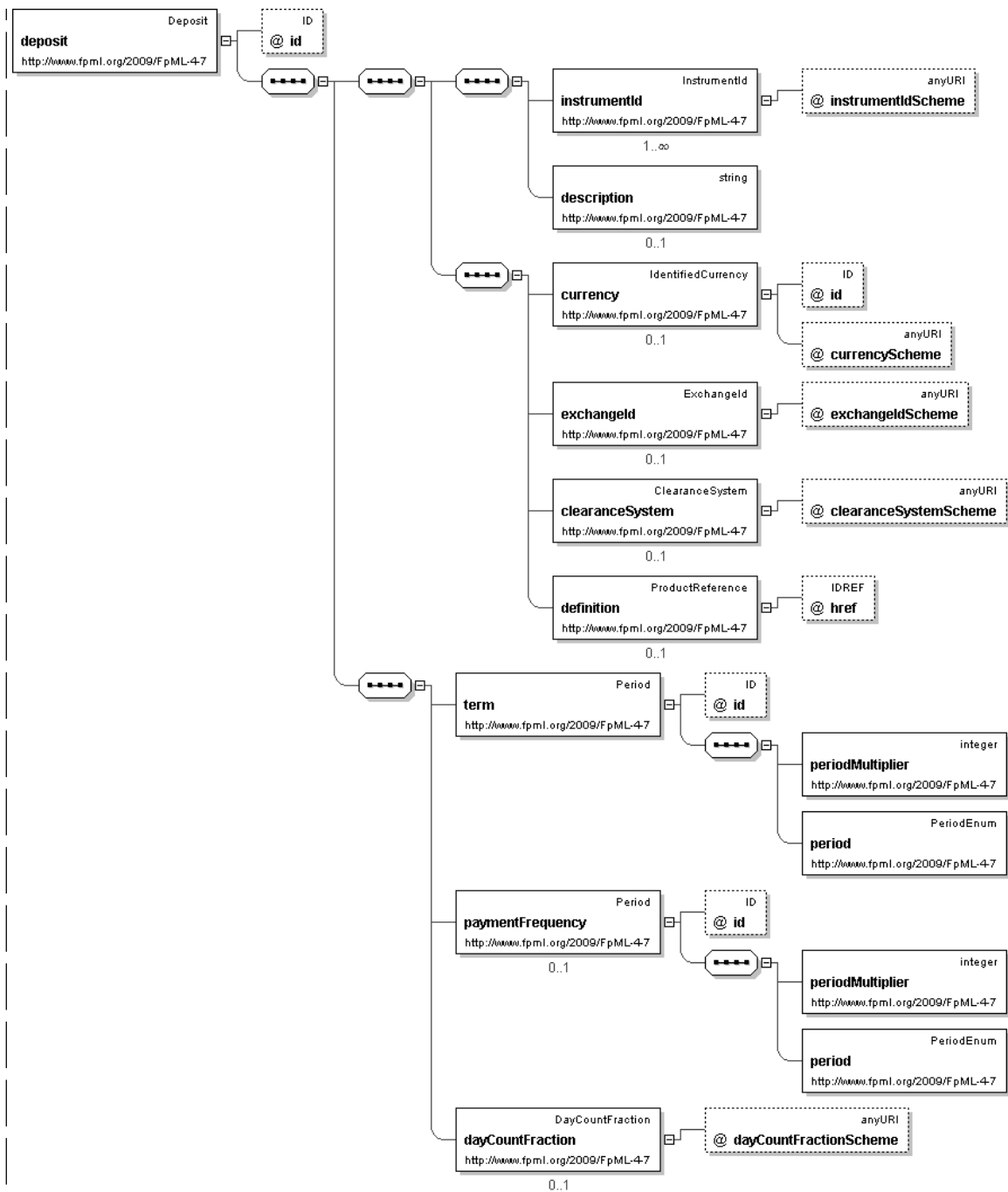
[top](#)

Element: **deposit**

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	deposit
Type	<a href="#">Deposit</a>
Nilable	no
Abstract	no
Documentation	Defines a simple underlying asset that is a term deposit.

Logical Diagram



## XML Instance Representation

```

<deposit
  id="xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

```

<description> xsd:string </description> [0..1]  
'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]  
'Trading currency of the underlying when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]  
'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]  
'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]  
'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'

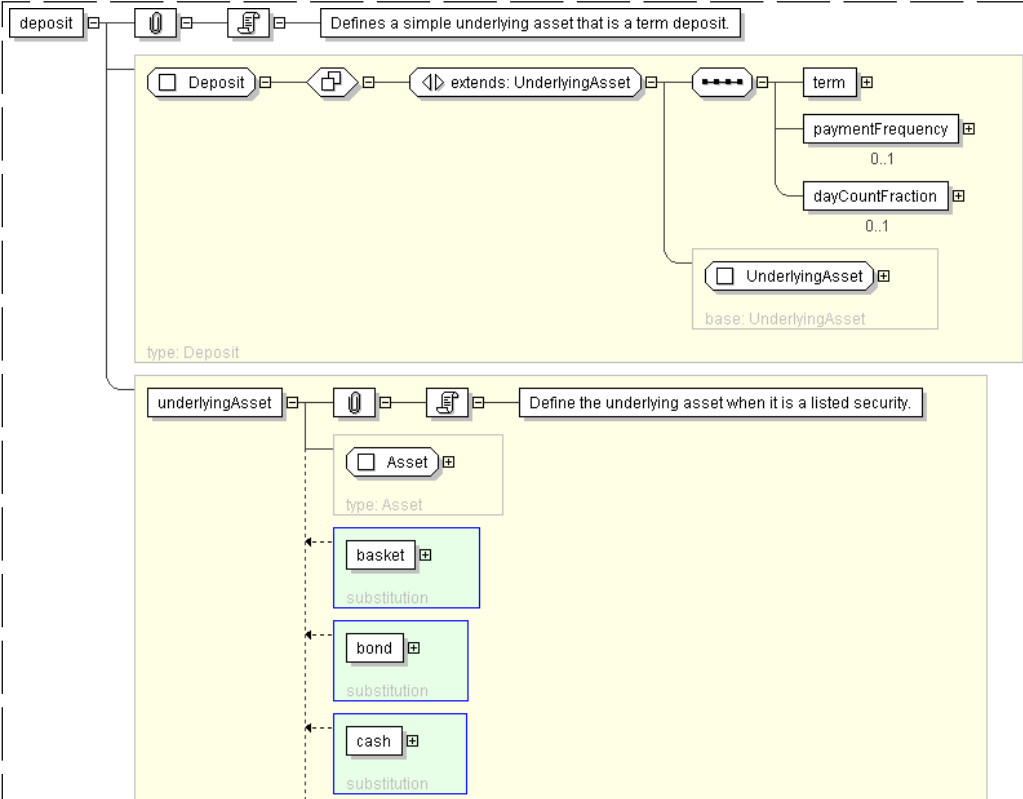
<term> Period </term> [1]  
'Specifies the term of the deposit, e.g. 5Y.'

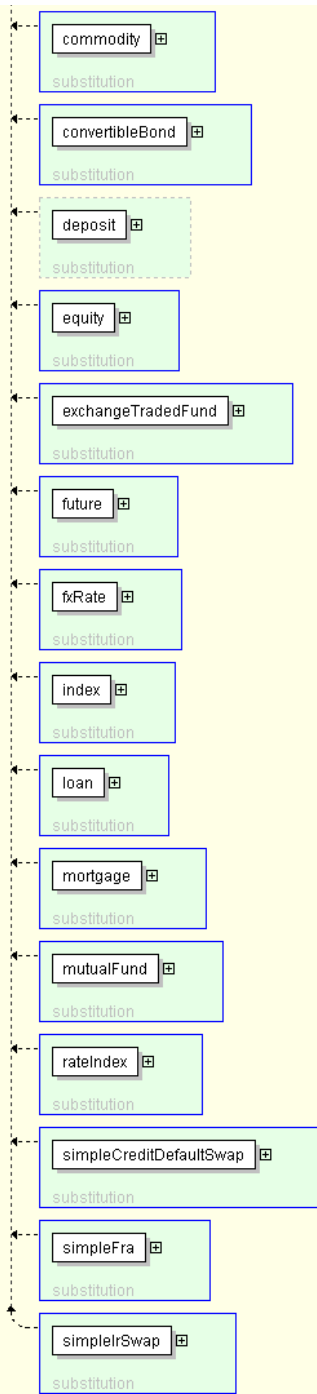
<paymentFrequency> Period </paymentFrequency> [0..1]  
'Specifies the frequency at which the deposit pays, e.g. 6M.'

<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]  
'The day count basis for the deposit.'

</deposit>

Diagram





substitutionGroup: underlyingAsset

#### Schema Component Representation

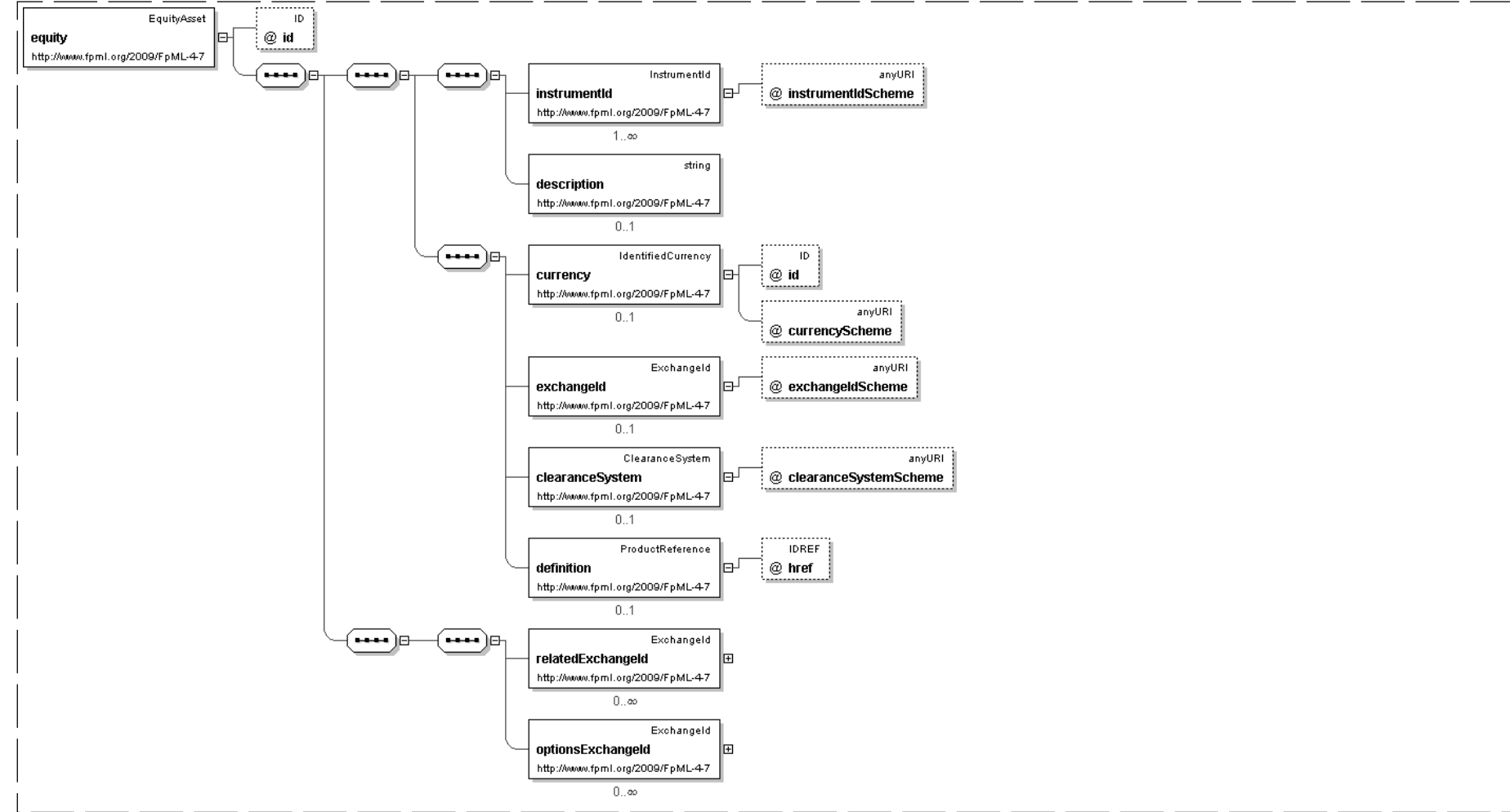
```
<xsd:element name="deposit" type="Deposit" substitutionGroup="underlyingAsset"/>
```

Element: equity

- This element can be used wherever the following element is referenced:
  - underlyingAsset

Name	equity
Type	EquityAsset
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is a listed equity.

Logical Diagram



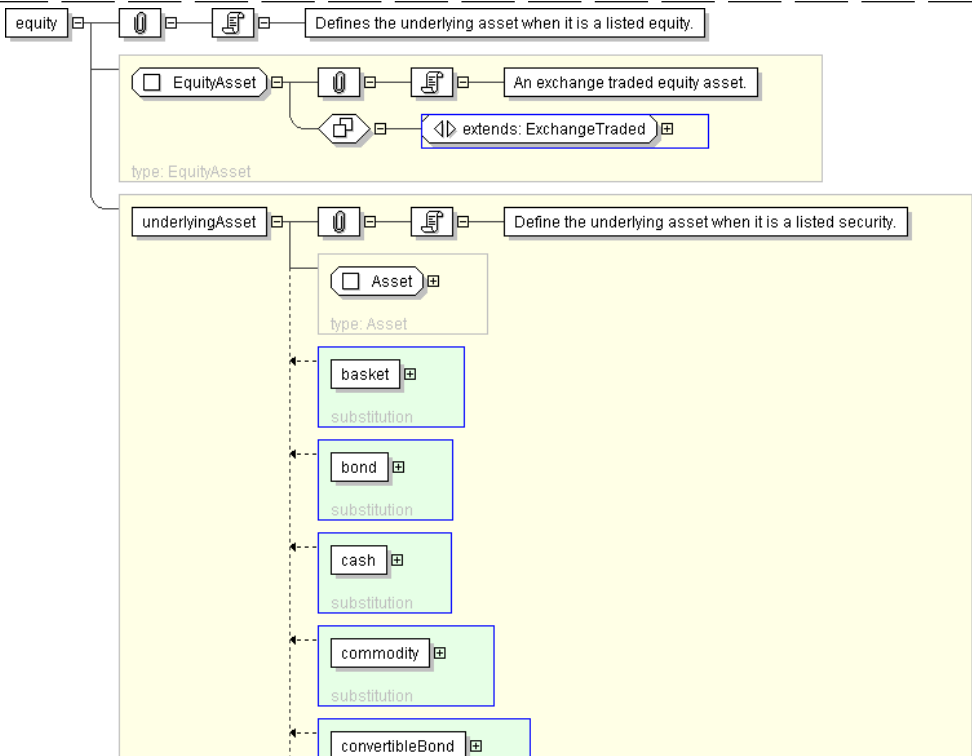
XML Instance Representation

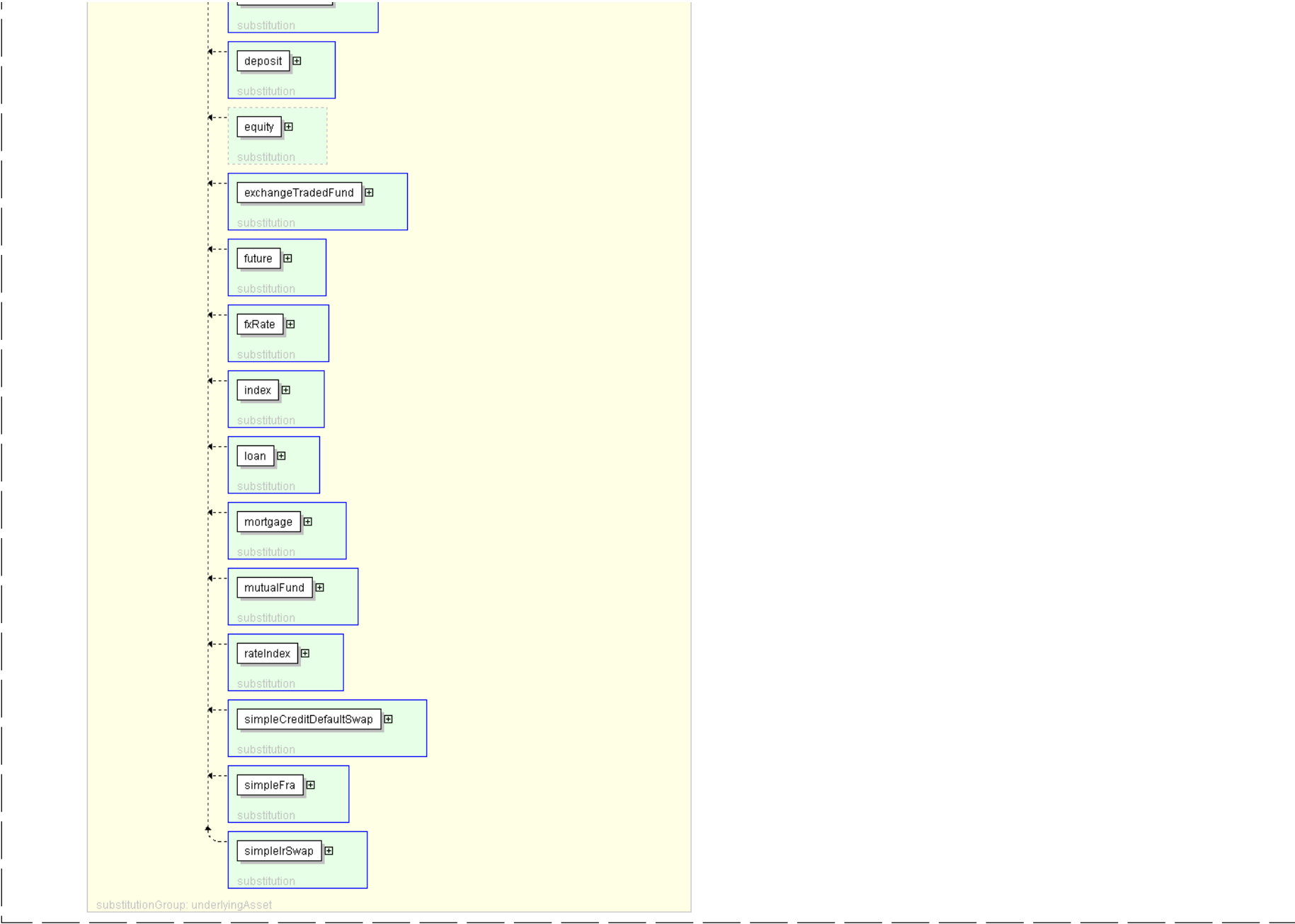
```
<equity
id="xsd:ID [0..1]*">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'
```



```
<description> xsd:string </description> [0..1]
'Long name of the underlying asset.'IdentifiedCurrency </currency> [0..1]
'Trading currency of the underlying when transacted as a cash instrument.'ExchangeId </exchangeId> [0..1]
'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'ClearanceSystem </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'ExchangeId </relatedExchangeId> [0..*]
'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'ExchangeId </optionsExchangeId> [0..*]
'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
different than the one for the option. The options Exchange is referenced on share options
when Merger Elections are selected as Options Exchange Adjustment.'
```

Diagram





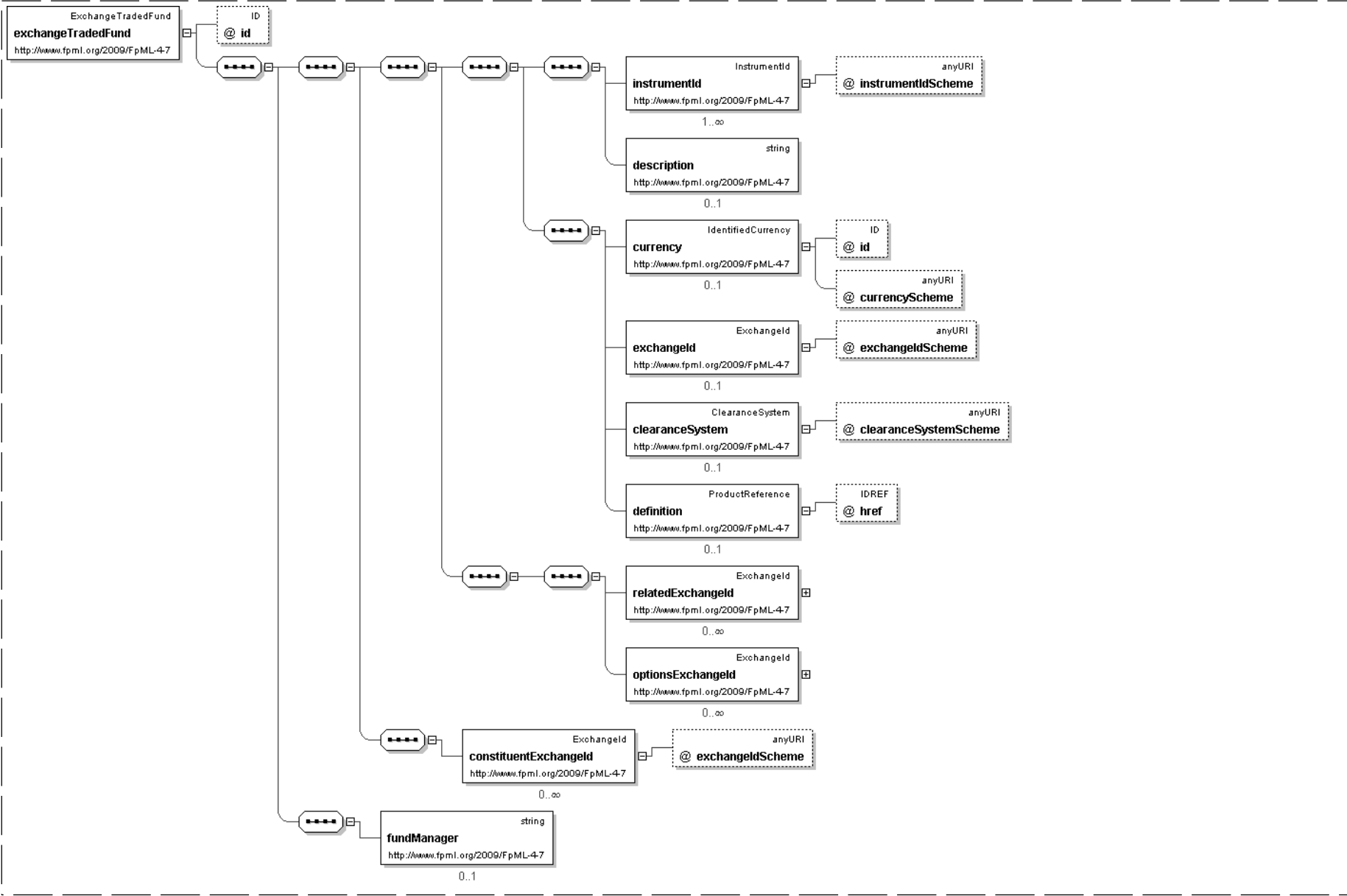
Schema Component Representation

```
<xsd:element name="equity" type="EquityAsset" substitutionGroup="underlyingAsset"/>
```

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	exchangeTradedFund
Type	<a href="#">ExchangeTradedFund</a>
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is an exchange-traded fund.

Logical Diagram



XML Instance Representation

```
<exchangeTradedFund
```

```

id=" xsd:ID [0..1]">
<instrumentId> InstrumentId </instrumentId> [1..*]
'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

<relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
different than the one for the option. The options Exchange is referenced on share options
when Merger Elections are selected as Options Exchange Adjustment.'

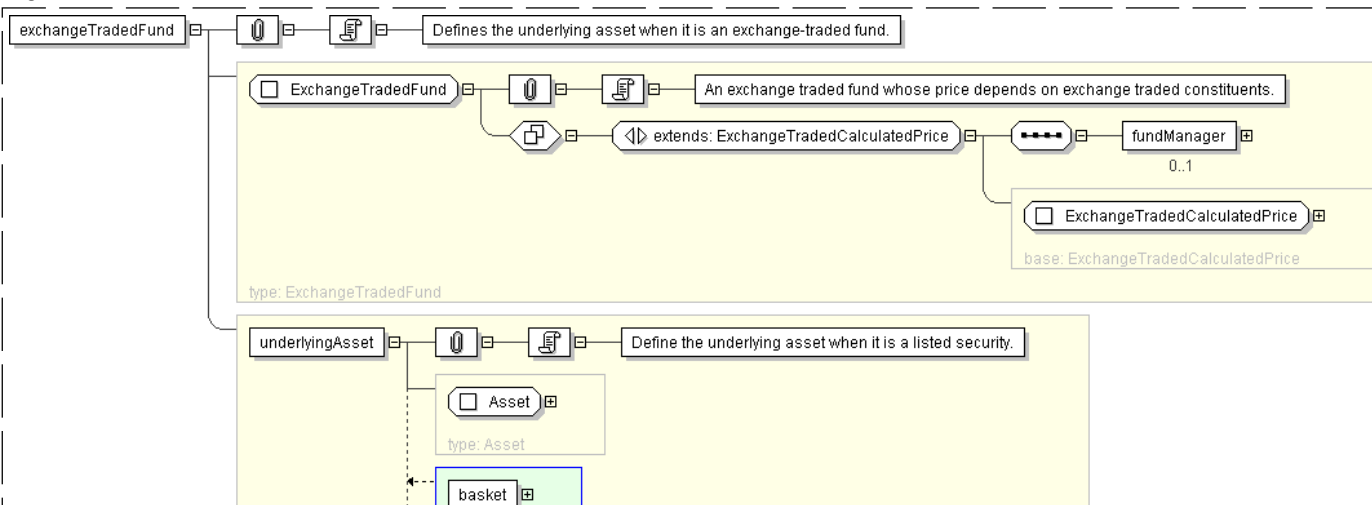
<constituentExchangeId> ExchangeId </constituentExchangeId> [0..*]
'Identification of all the exchanges where constituents are traded. The term \"Exchange\"
is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

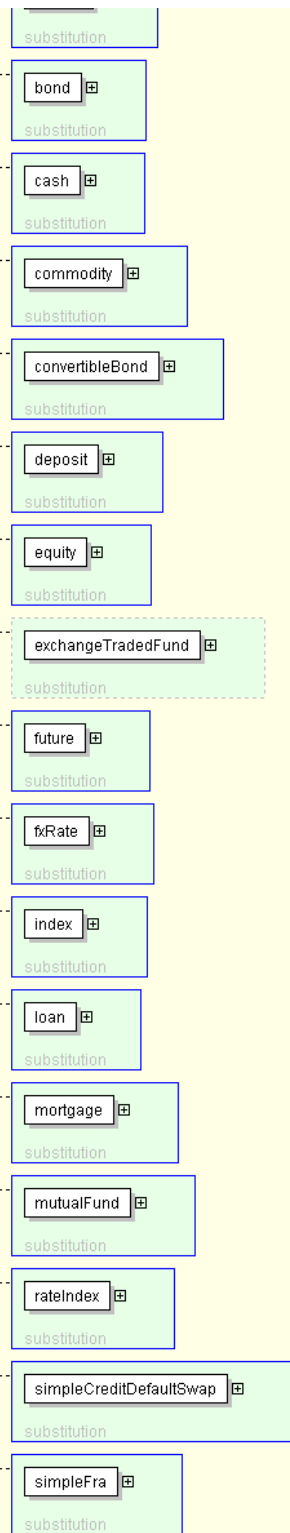
<fundManager> xsd:string </fundManager> [0..1]
'Specifies the fund manager that is in charge of the fund.'

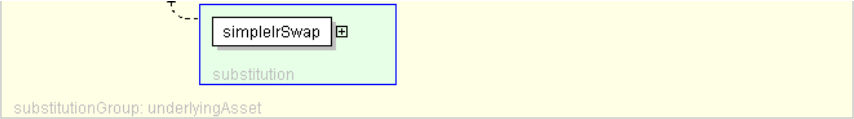
</exchangeTradedFund>

```

## Diagram







Schema Component Representation

```
<xsd:element name="exchangeTradedFund" type="ExchangeTradedFund"
  * substitutionGroup="underlyingAsset"/>
```

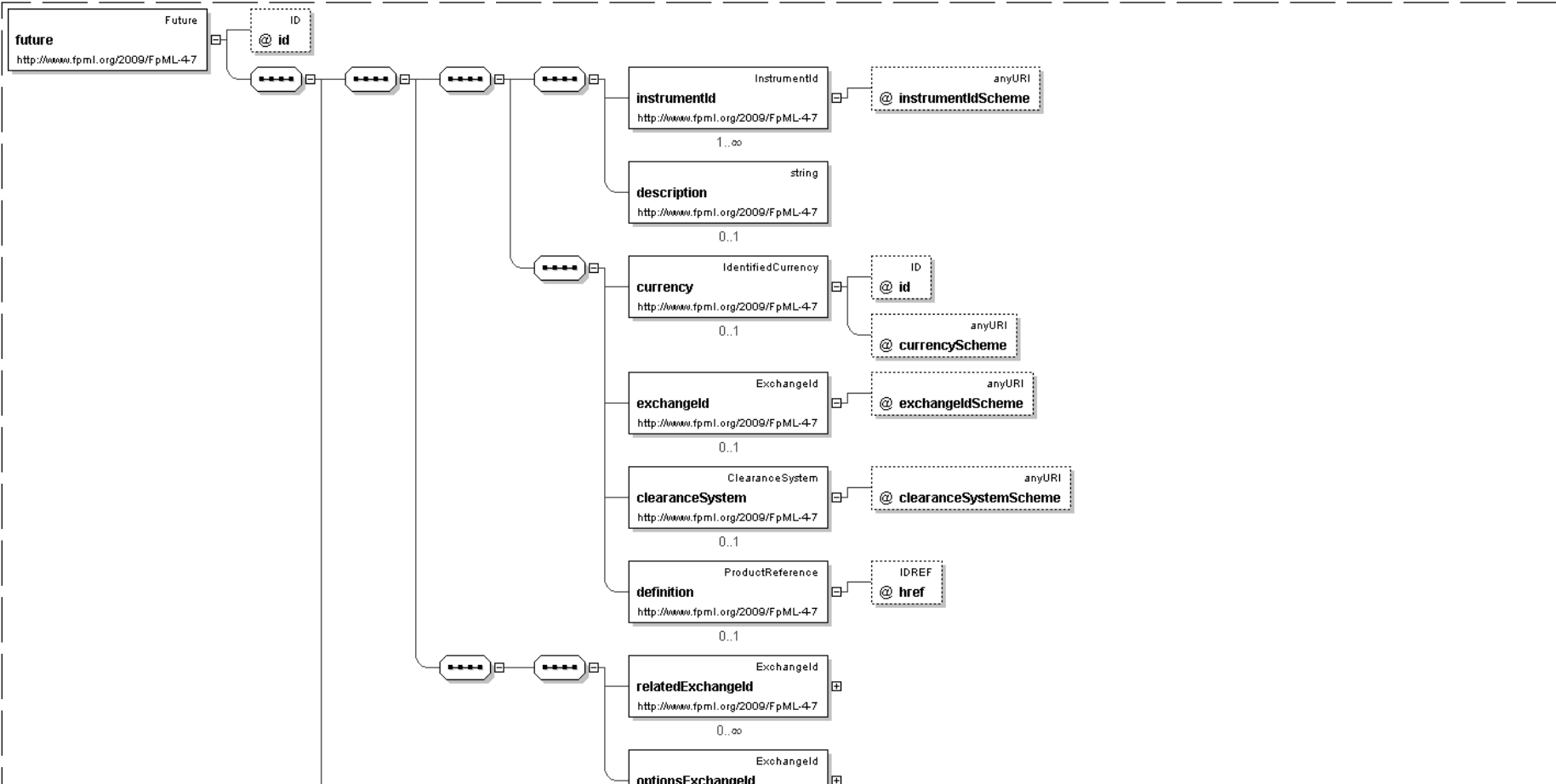
[top](#)

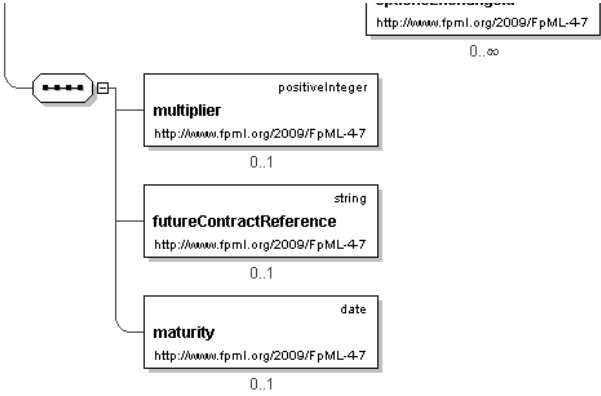
Element: future

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	future
Type	<a href="#">Future</a>
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is a listed future contract.

Logical Diagram





XML Instance Representation

```
<future
id="xsd:ID [0..1]*">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

  <relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
  'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'

  <optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
  'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
different than the one for the option. The options Exchange is referenced on share options
when Merger Elections are selected as Options Exchange Adjustment.'

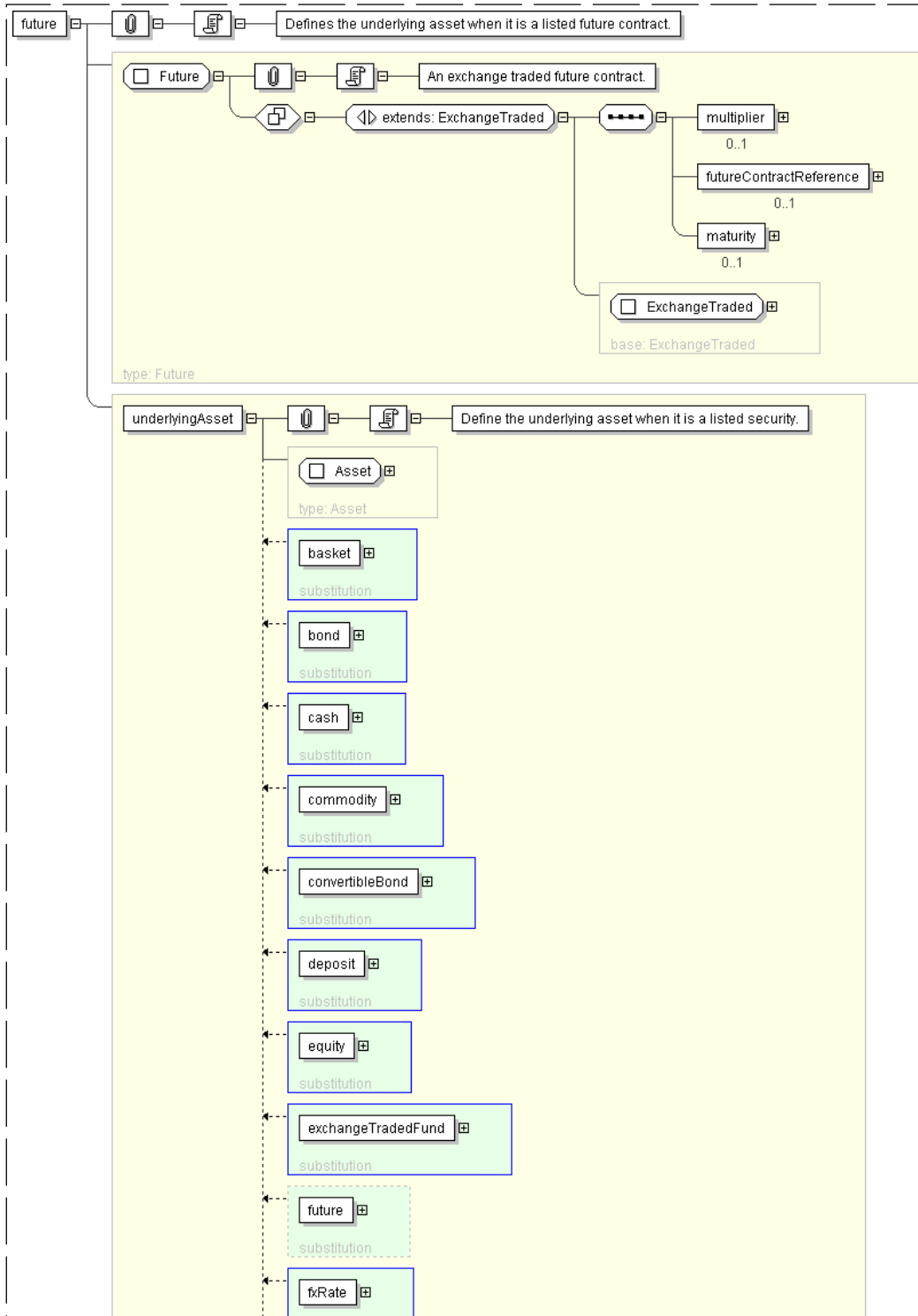
  <multiplier> xsd:positiveInteger </multiplier> [0..1]
  'Specifies the contract multiplier that can be associated with the number of units.'

  <futureContractReference> xsd:string </futureContractReference> [0..1]
  'Specifies the future contract that can be referenced, besides the equity or index
reference defined as part of the UnderlyerAsset type.'

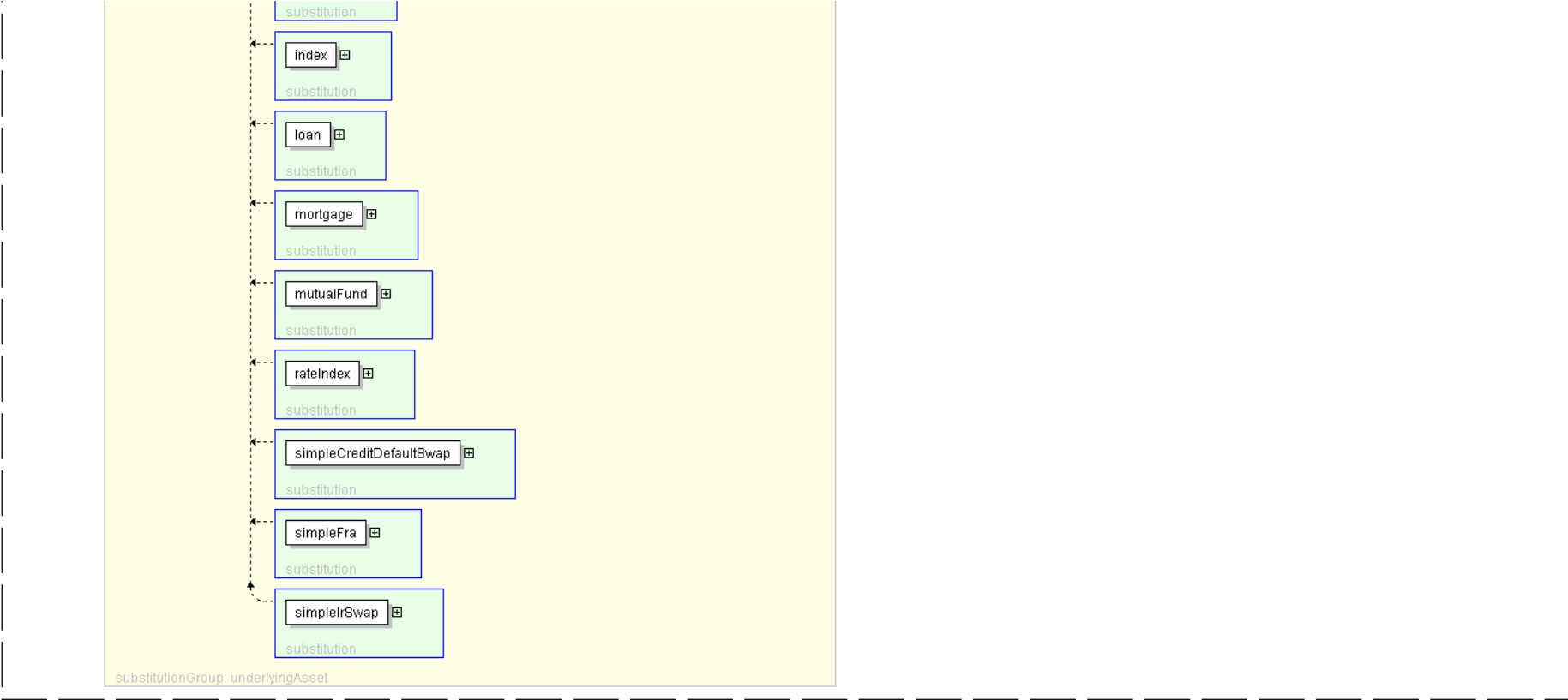
  <maturity> xsd:date </maturity> [0..1]
  'The date when the future contract expires.'

</future>
```

## Diagram







Schema Component Representation

```
<xsd:element name="future" type="Future" substitutionGroup="underlyingAsset"/>
```

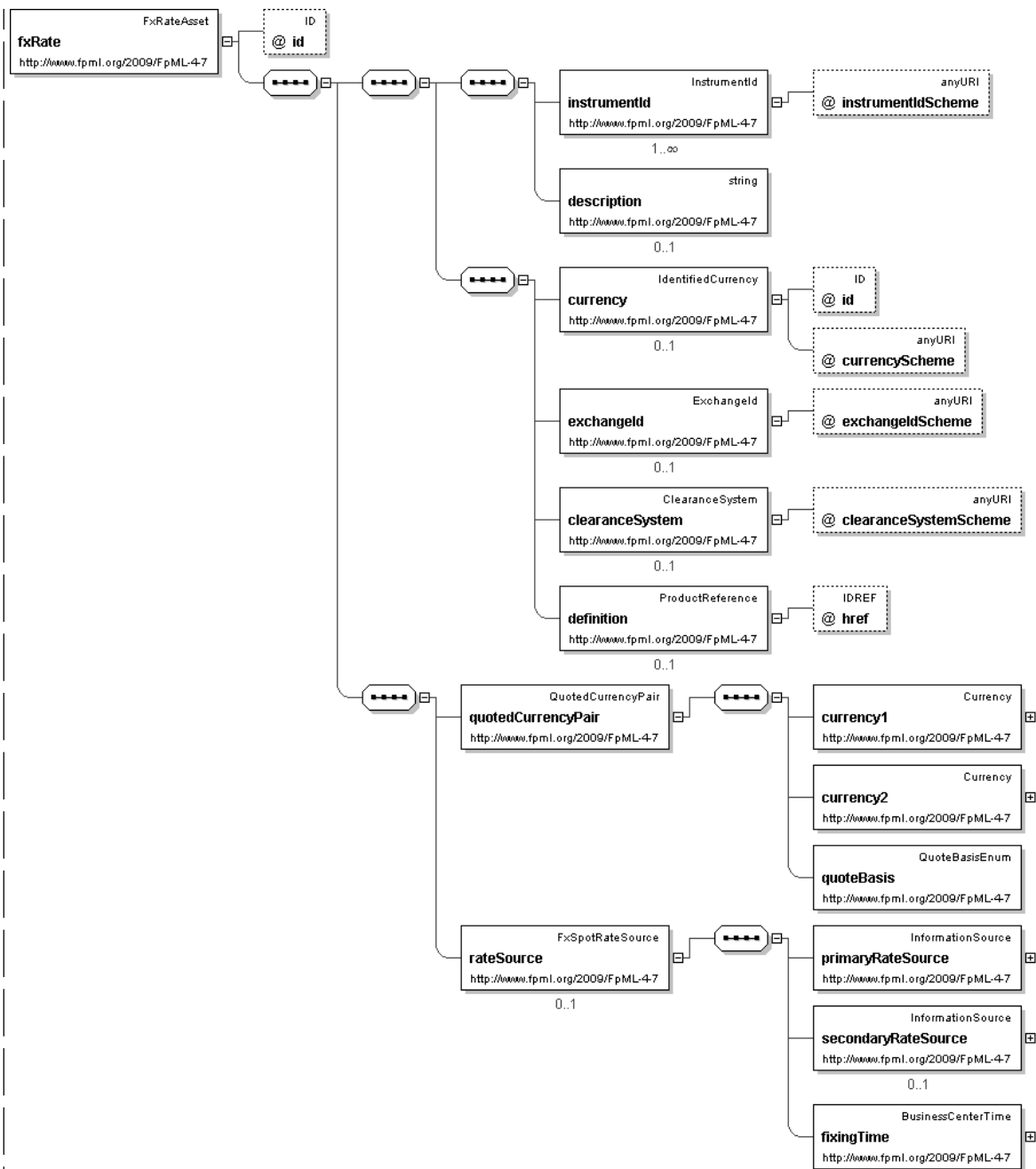
[top](#)

Element: fxRate

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	fxRate
Type	<a href="#">FxRateAsset</a>
Niltable	no
Abstract	no
Documentation	Defines a simple underlying asset type that is an FX rate. Used for specifying FX rates in the pricing and risk model.

Logical Diagram



#### XML Instance Representation

```
<fxRate
  id="xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'
  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'
```

```
<currency> IdentifiedCurrency </currency> [0..1]
```

'Trading currency of the underlying when transacted as a cash instrument.'

```
<exchangeId> ExchangeId </exchangeId> [0..1]
```

'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

```
<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
```

'Identification of the clearance system associated with the transaction exchange.'

```
<definition> ProductReference </definition> [0..1]
```

'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'

```
<quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
```

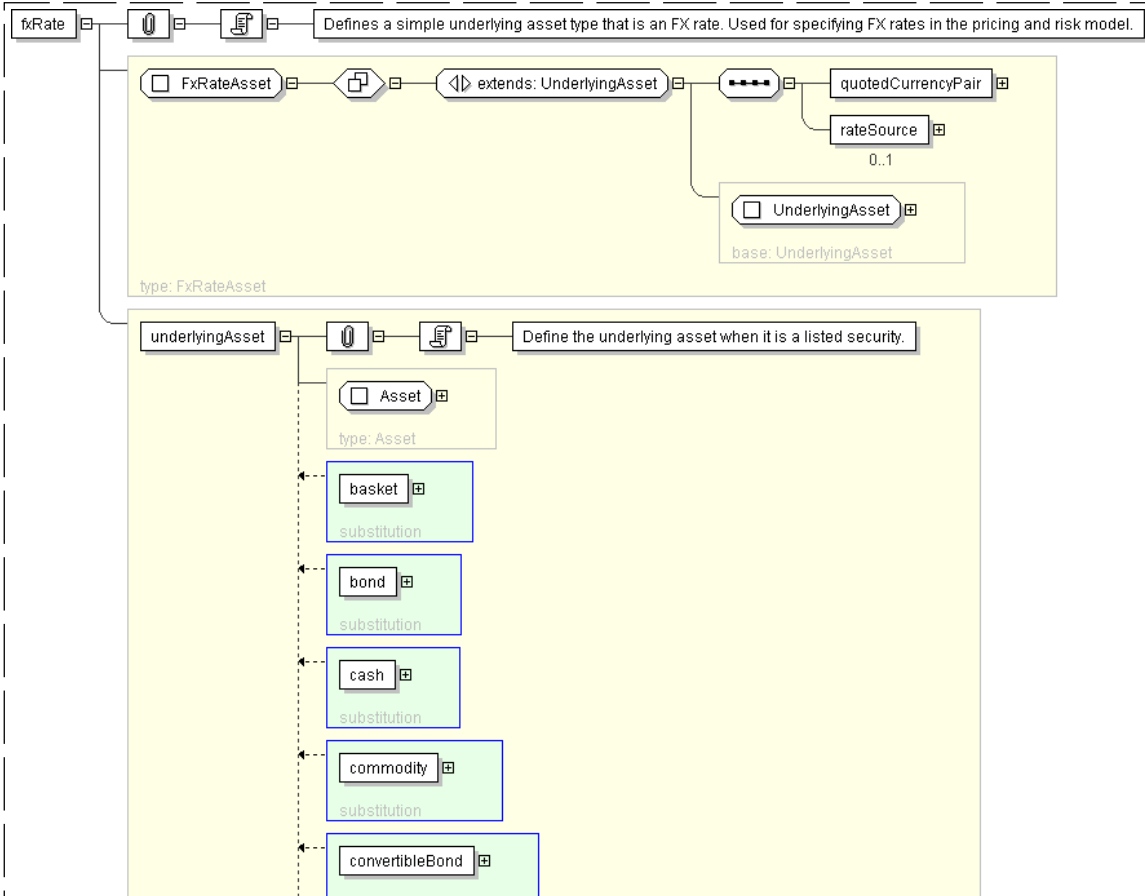
'Defines the two currencies for an FX trade and the quotation relationship between the two currencies.'

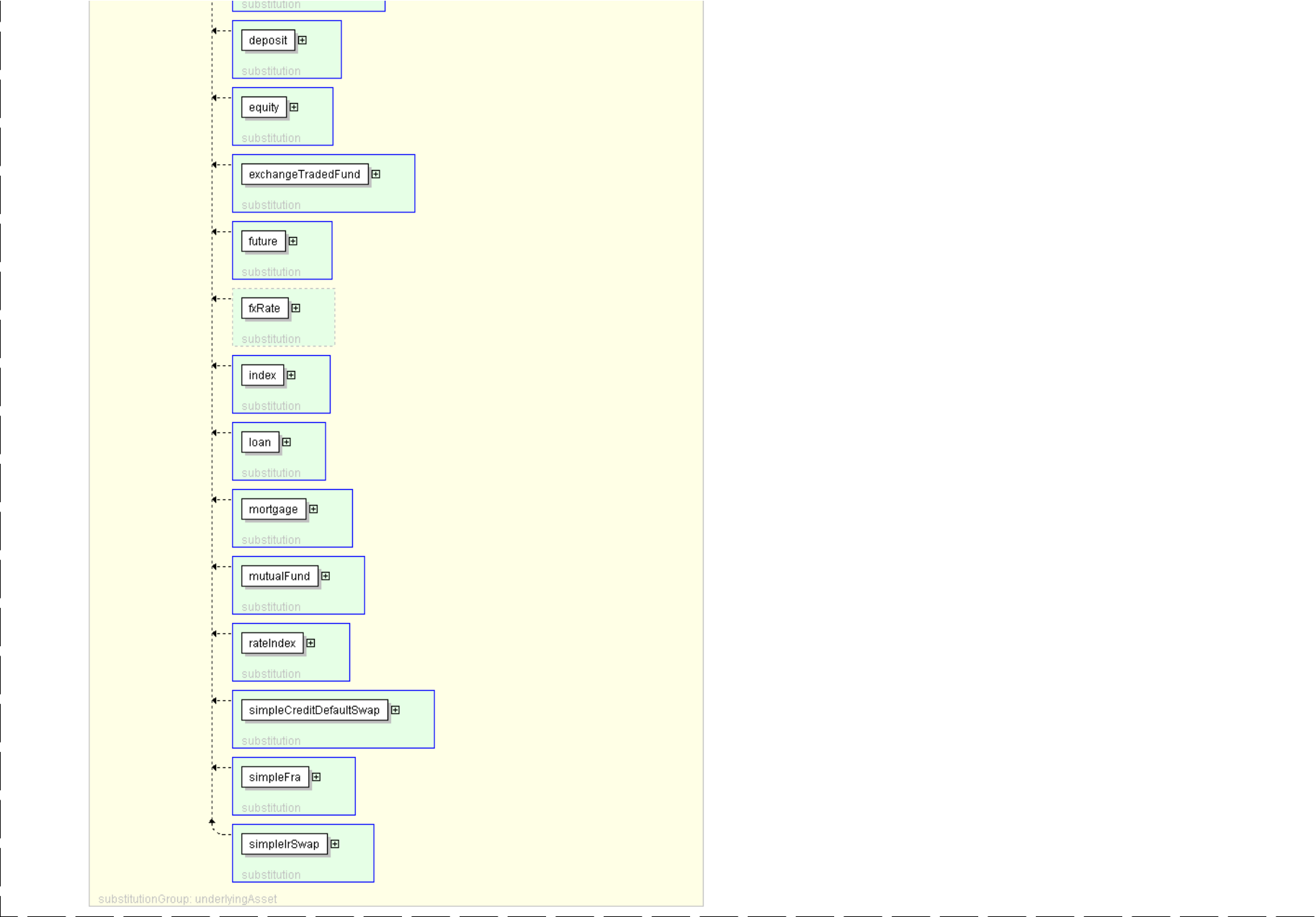
```
<rateSource> FxSpotRateSource </rateSource> [0..1]
```

'Defines the source of the FX rate.'

```
</fxRate>
```

#### Diagram





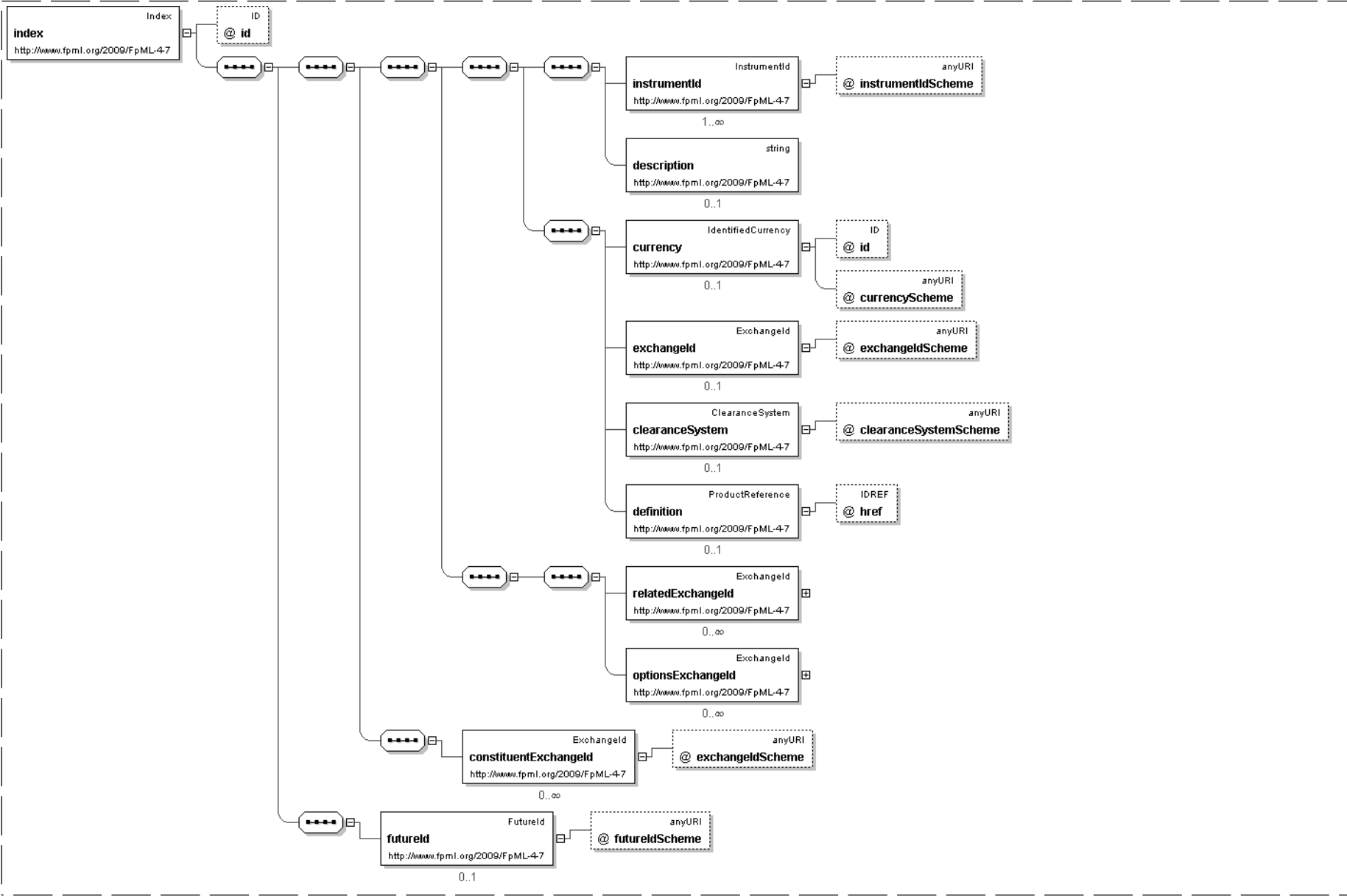
Schema Component Representation

```
<xsd:element name="fxRate" type=" FxRateAsset " substitutionGroup="underlyingAsset"/>
```

. This element can be used wherever the following element is referenced:  
    ↳ [underlyingAsset](#)

Name	index
Type	<a href="#">Index</a>
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is a financial index.

Logical Diagram



XML Instance Representation

```
<index
```

```

id=" xsd:ID [0..1]">
<instrumentId> InstrumentId </instrumentId> [1..*]
'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

<relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
different than the one for the option. The options Exchange is referenced on share options
when Merger Elections are selected as Options Exchange Adjustment.'

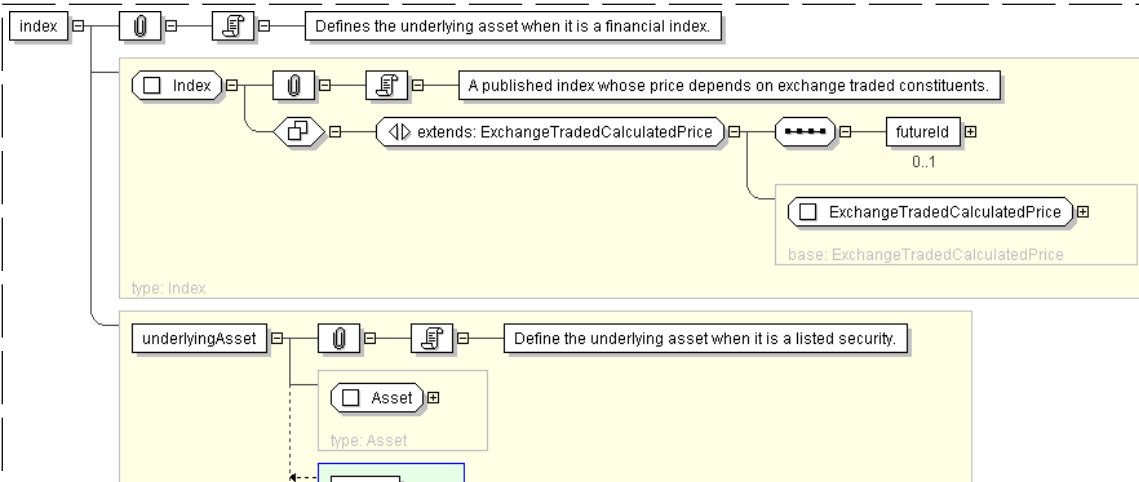
<constituentExchangeId> ExchangeId </constituentExchangeId> [0..*]
'Identification of all the exchanges where constituents are traded. The term \"Exchange\"
is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

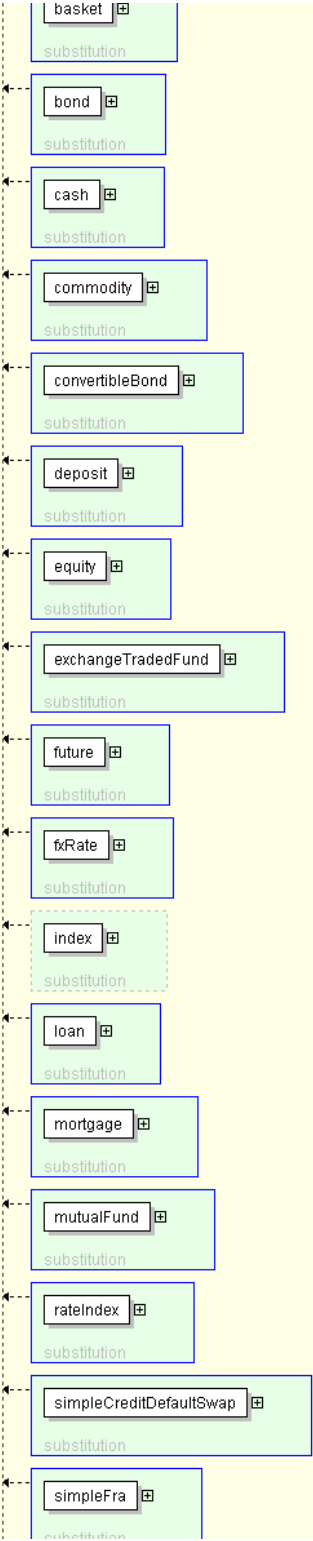
<futureId> FutureId </futureId> [0..1]
'A short form unique identifier for the reference future contract in the case of an
index underlyer.'

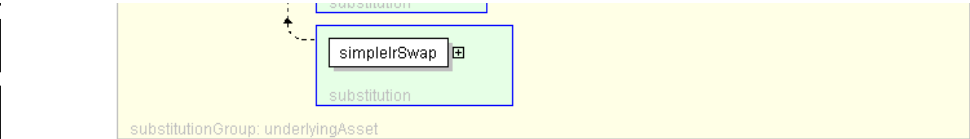
</index>

```

## Diagram







Schema Component Representation

```
<xsd:element name="index" type="Index" substitutionGroup="underlyingAsset"/>
```

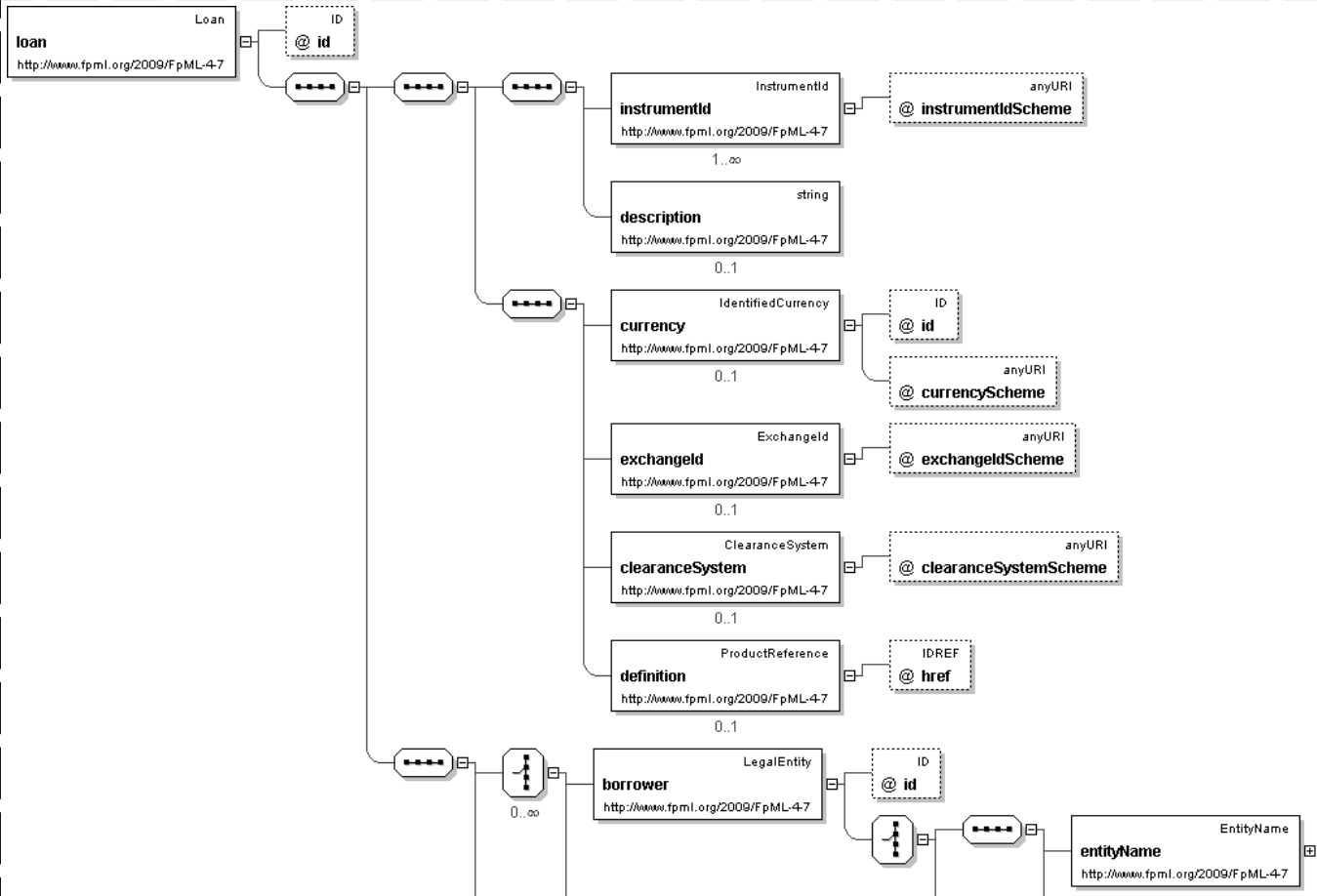
[top](#)

Element: **loan**

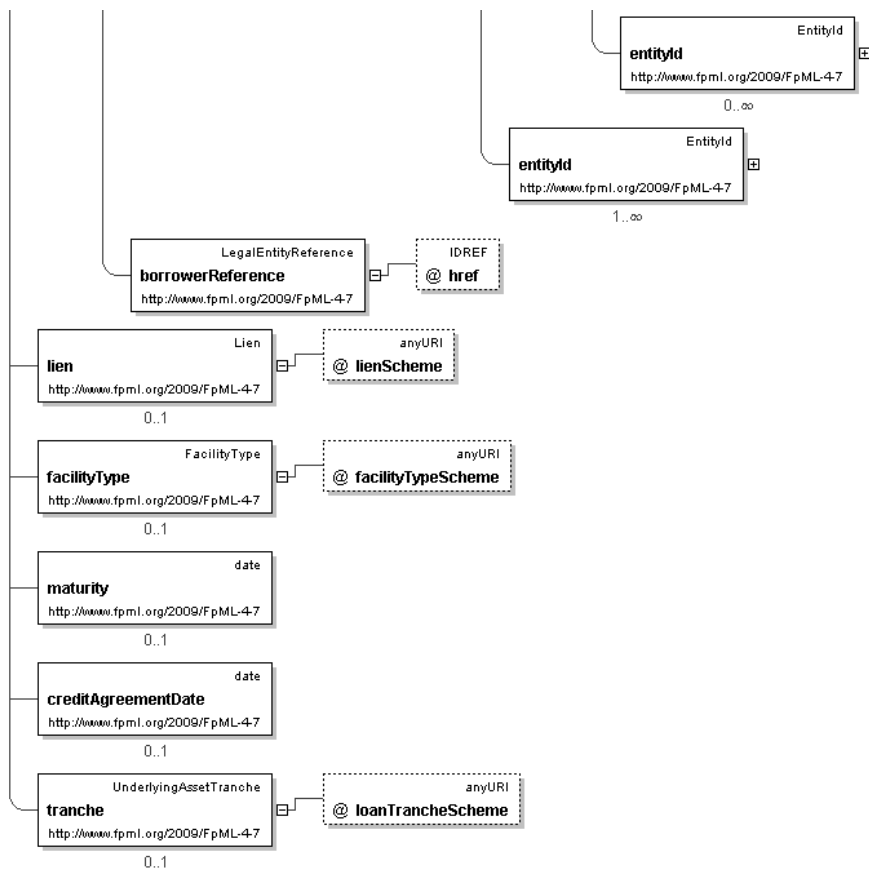
- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	loan
Type	<a href="#">Loan</a>
Nilable	no
Abstract	no
Documentation	Defines a simple underlying asset that is a loan.

Logical Diagram







## XML Instance Representation

```

<loan
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

Start Choice [0..*]
'Specifies the borrower. There can be more than one borrower. It is meant to be used in

```

the event that there is no Bloomberg Id or the Secured List isn't applicable.'

```
<borrower> LegalEntity </borrower> [1]
<borrowerReference> LegalEntityReference </borrowerReference> [1]
```

End Choice

```
<lien> Lien </lien> [0..1]
```

'Specifies the seniority level of the lien.'

```
<facilityType> FacilityType </facilityType> [0..1]
```

'The type of loan facility (letter of credit, revolving, ...).'

```
<maturity> xsd:date </maturity> [0..1]
```

'The date when the principal amount of the loan becomes due and payable.'

```
<creditAgreementDate> xsd:date </creditAgreementDate> [0..1]
```

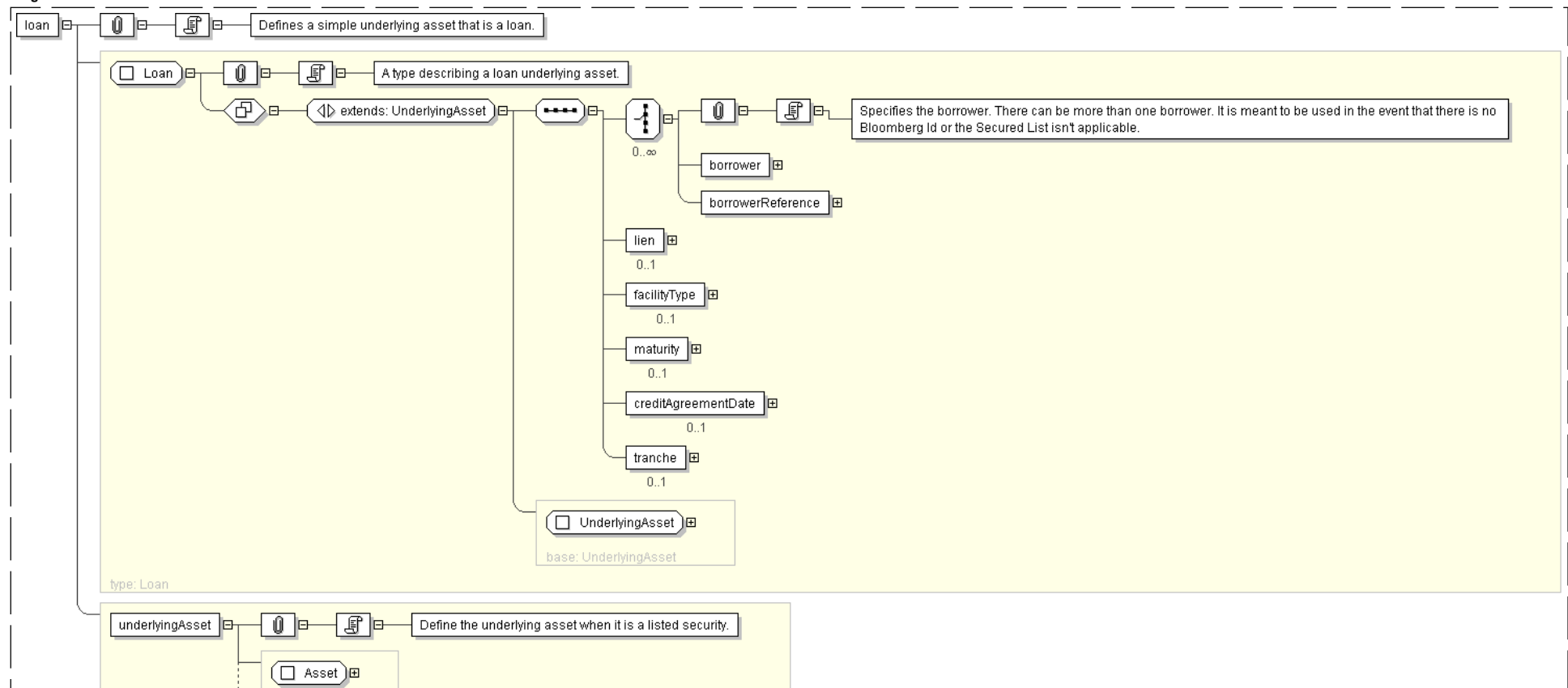
'The credit agreement date is the closing date (the date where the agreement has been signed) for the loans in the credit agreement. Funding of the facilities occurs on (or sometimes a little after) the Credit Agreement date. This underlyer attribute is used to help identify which of the company's outstanding loans are being referenced by knowing to which credit agreement it belongs. ISDA Standards Terms Supplement term: Date of Original Credit Agreement.'

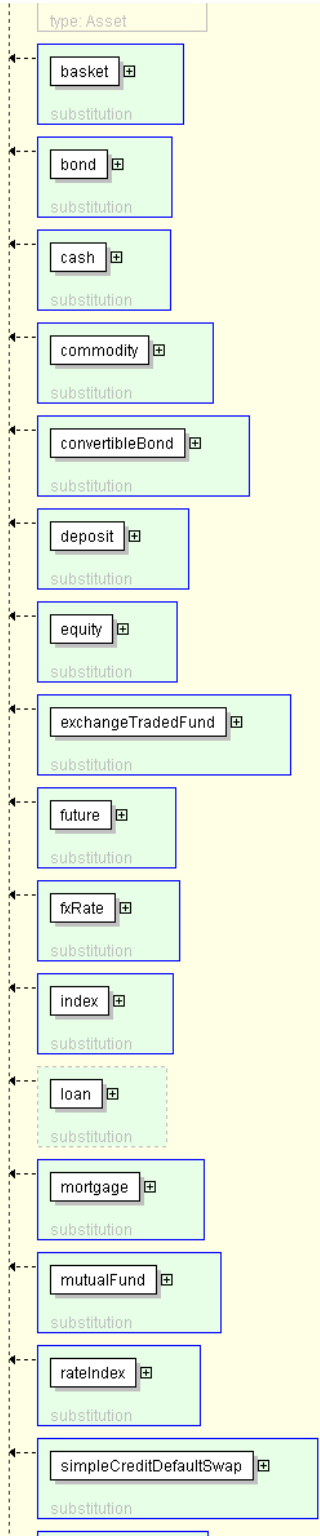
```
<tranche> UnderlyingAssetTranche </tranche> [0..1]
```

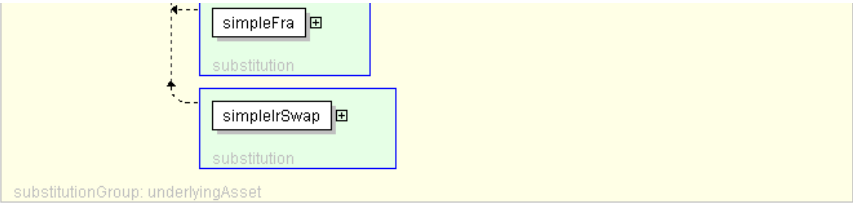
'The loan tranche that is subject to the derivative transaction. It will typically be referenced as the Bloomberg tranche number. ISDA Standards Terms Supplement term: Bloomberg Tranche Number.'

```
</loan>
```

#### Diagram







Schema Component Representation

```
<xsd:element name="loan" type="Loan" substitutionGroup="underlyingAsset"/>
```

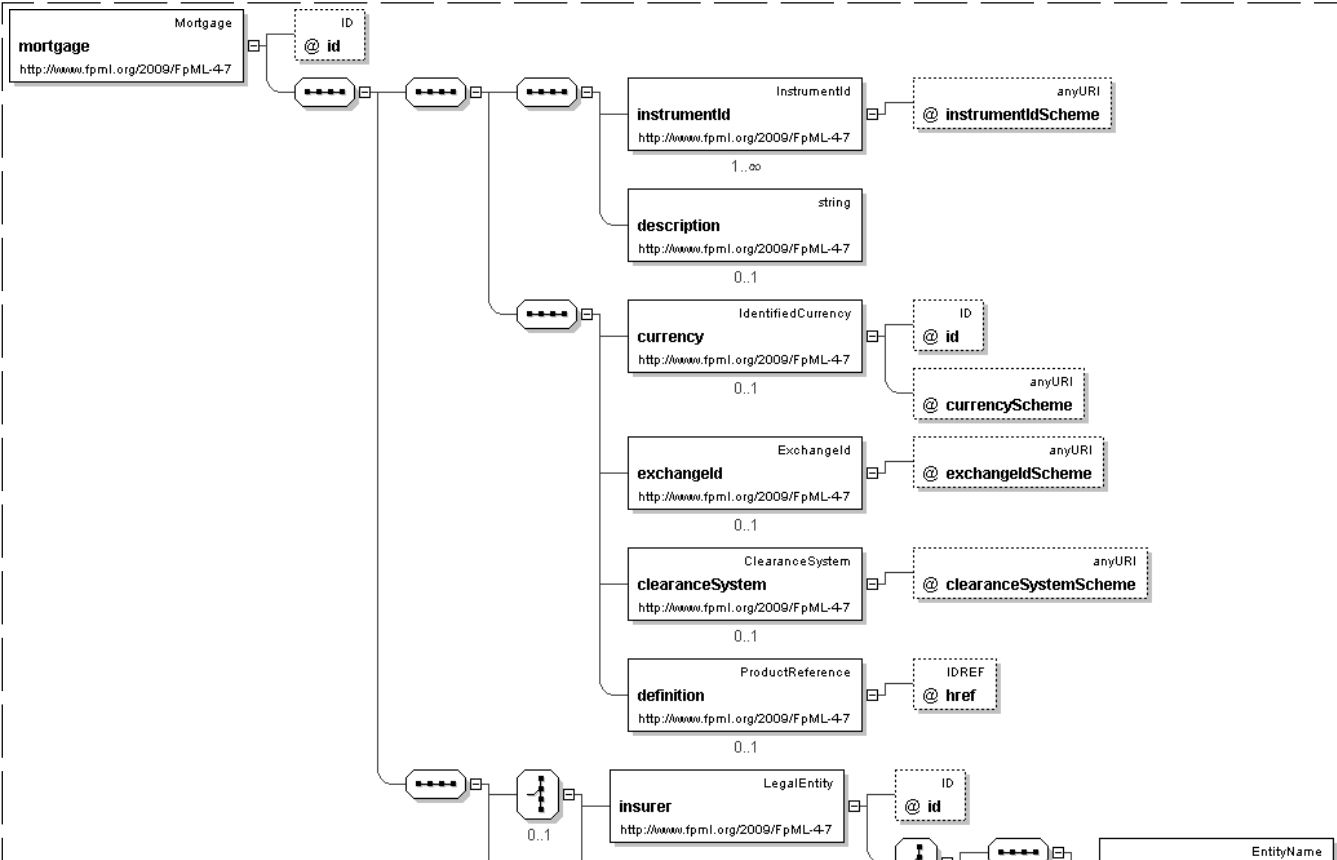
[top](#)

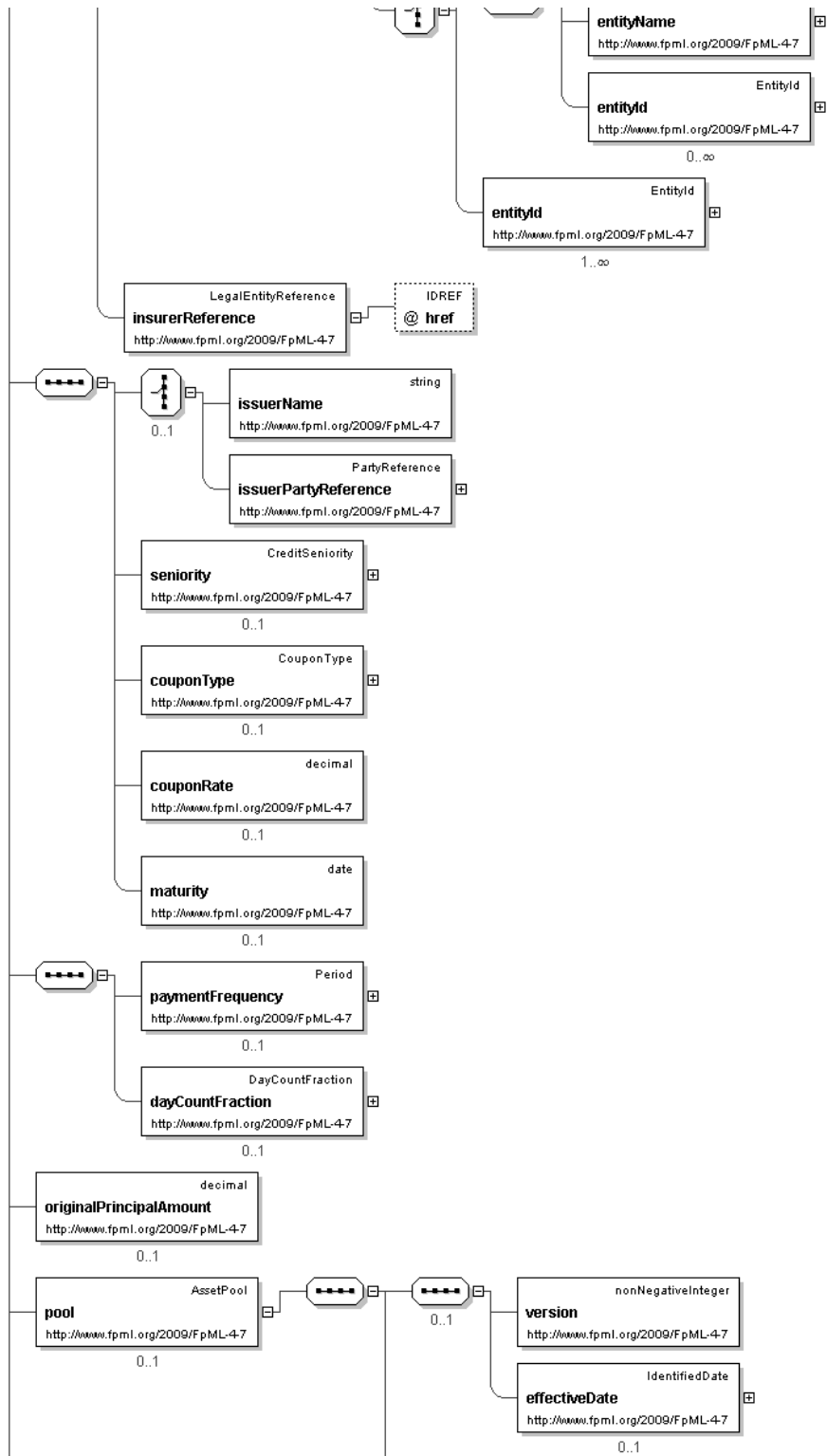
Element: mortgage

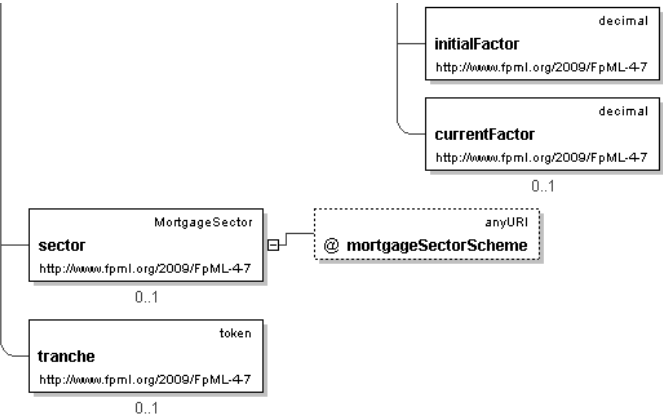
. This element can be used wherever the following element is referenced:  
o [underlyingAsset](#)

Name	mortgage
Type	<a href="#">Mortgage</a>
Nilable	no
Abstract	no
Documentation	Defines an underlying asset that is a mortgage.

Logical Diagram







XML Instance Representation

```
<mortgage
id=" xsd:ID [0..1]*">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

  Start Choice [0..1]
  'Applicable to the case of default swaps on MBS terms. For specifying the insurer name,
when applicable (when the element is not present, it signifies that the insurer is
Not Applicable)'

    <insurer> LegalEntity </insurer> [1]
    <insurerReference> LegalEntityReference </insurerReference> [1]
  End Choice
  Start Choice [0..1]
  'Specifies the issuer name of a fixed income security or convertible bond. This name can
either be explicitly stated, or specified as an href into another element of the document,
such as the obligor'

    <issuerName> xsd:string </issuerName> [1]
    <issuerPartyReference> PartyReference </issuerPartyReference> [1]
  End Choice
  <seniority> CreditSeniority </seniority> [0..1]
  'The repayment precedence of a debt instrument.'

  <couponType> CouponType </couponType> [0..1]
```

'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'

<couponRate> [xsd:decimal](#) </couponRate> [0..1]

'Specifies the coupon rate (expressed in percentage) of a fixed income security or convertible bond.'

<maturity> [xsd:date](#) </maturity> [0..1]

'The date when the principal amount of a security becomes due and payable.'

<paymentFrequency> [Period](#) </paymentFrequency> [0..1]

'Specifies the frequency at which the bond pays, e.g. 6M.'

<dayCountFraction> [DayCountFraction](#) </dayCountFraction> [0..1]

'The day count basis for the bond.'

<originalPrincipalAmount> [xsd:decimal](#) </originalPrincipalAmount> [0..1]

'The initial issued amount of the mortgage obligation.'

<pool> [AssetPool](#) </pool> [0..1]

'The mortgage pool that is underneath the mortgage obligation.'

<sector> [MortgageSector](#) </sector> [0..1]

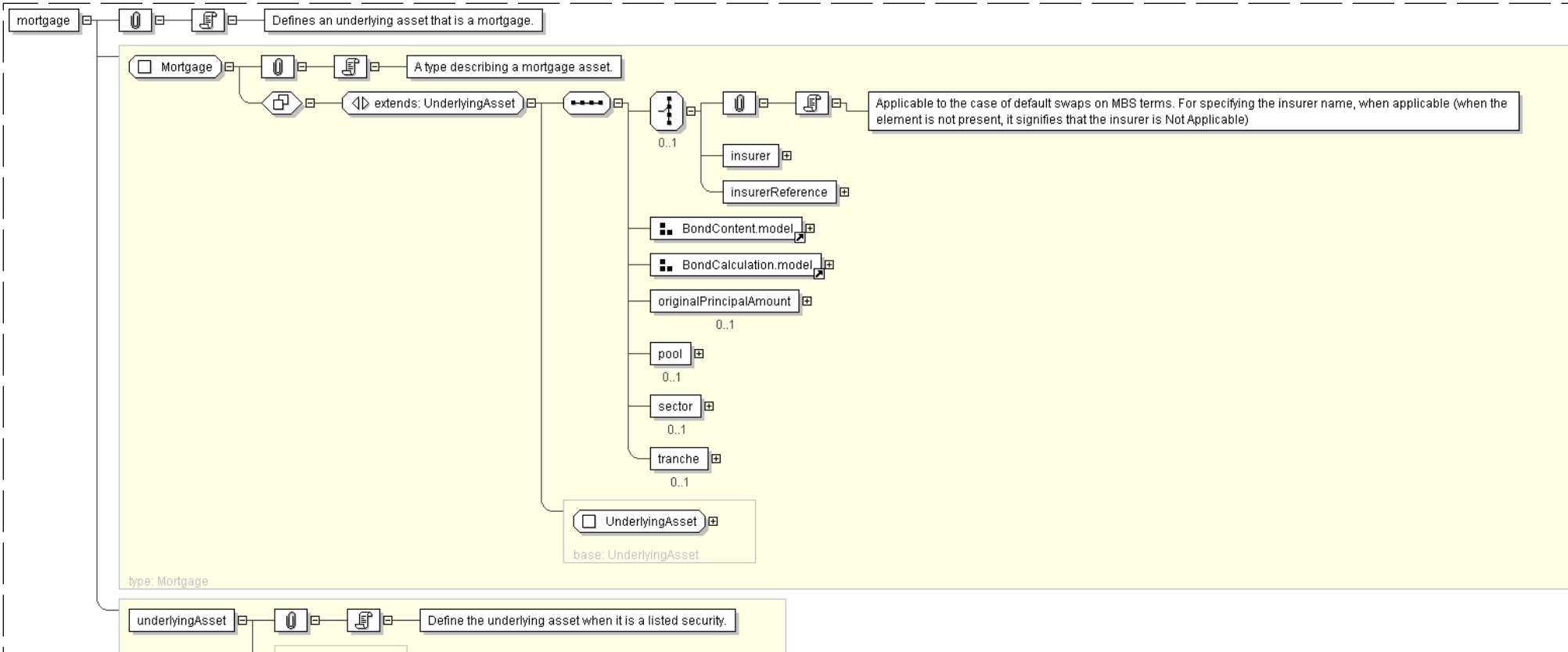
'The sector classification of the mortgage obligation.'

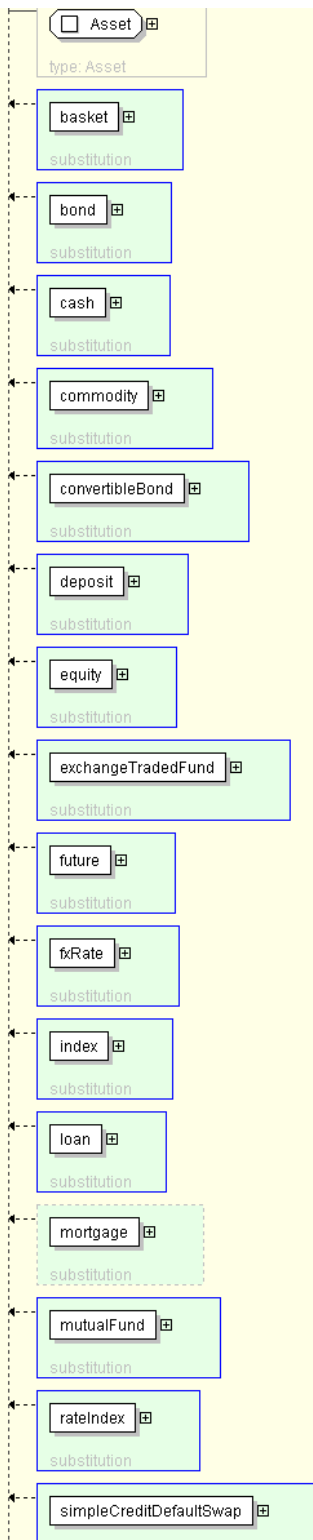
<tranche> [xsd:token](#) </tranche> [0..1]

'The mortgage obligation tranche that is subject to the derivative transaction.'

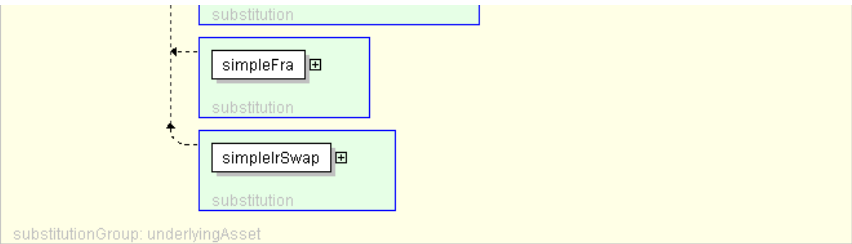
</mortgage>

#### Diagram









Schema Component Representation

```
<xsd:element name="mortgage" type="Mortgage" substitutionGroup="underlyingAsset"/>
```

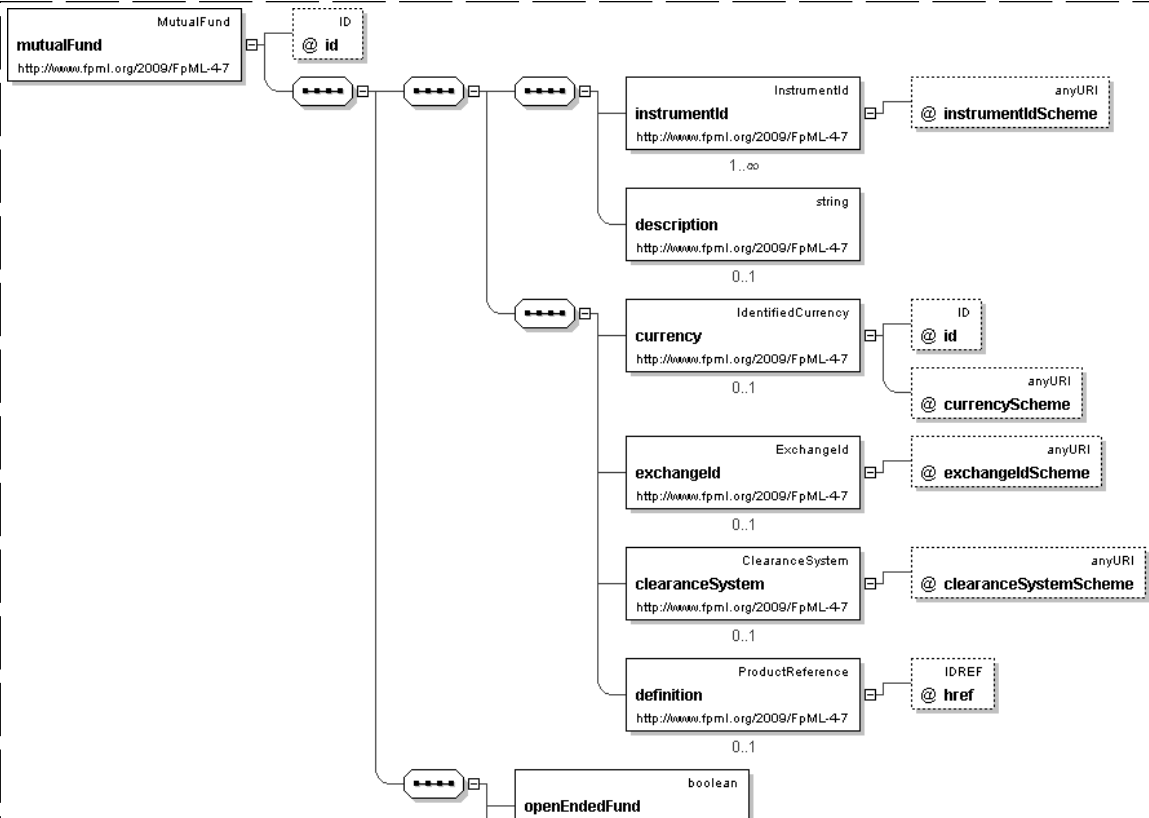
[top](#)

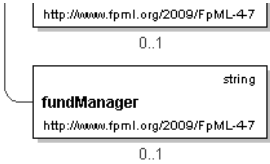
Element: **mutualFund**

- This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	mutualFund
Type	<a href="#">MutualFund</a>
Nilable	no
Abstract	no
Documentation	Defines the underlying asset when it is a mutual fund.

Logical Diagram





XML Instance Representation

```
<mutualFund
  id=" xsd:ID [0..1]*">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
  as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

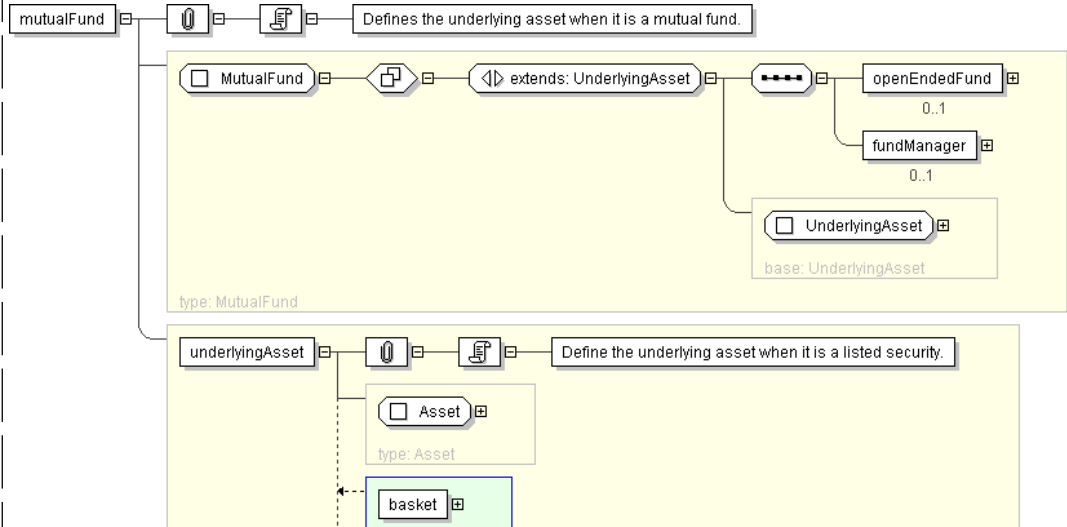
  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
  greater detail. In case of inconsistency between the terms of the simple product and those
  of the detailed definition, the values in the simple product override those in the
  detailed definition.'

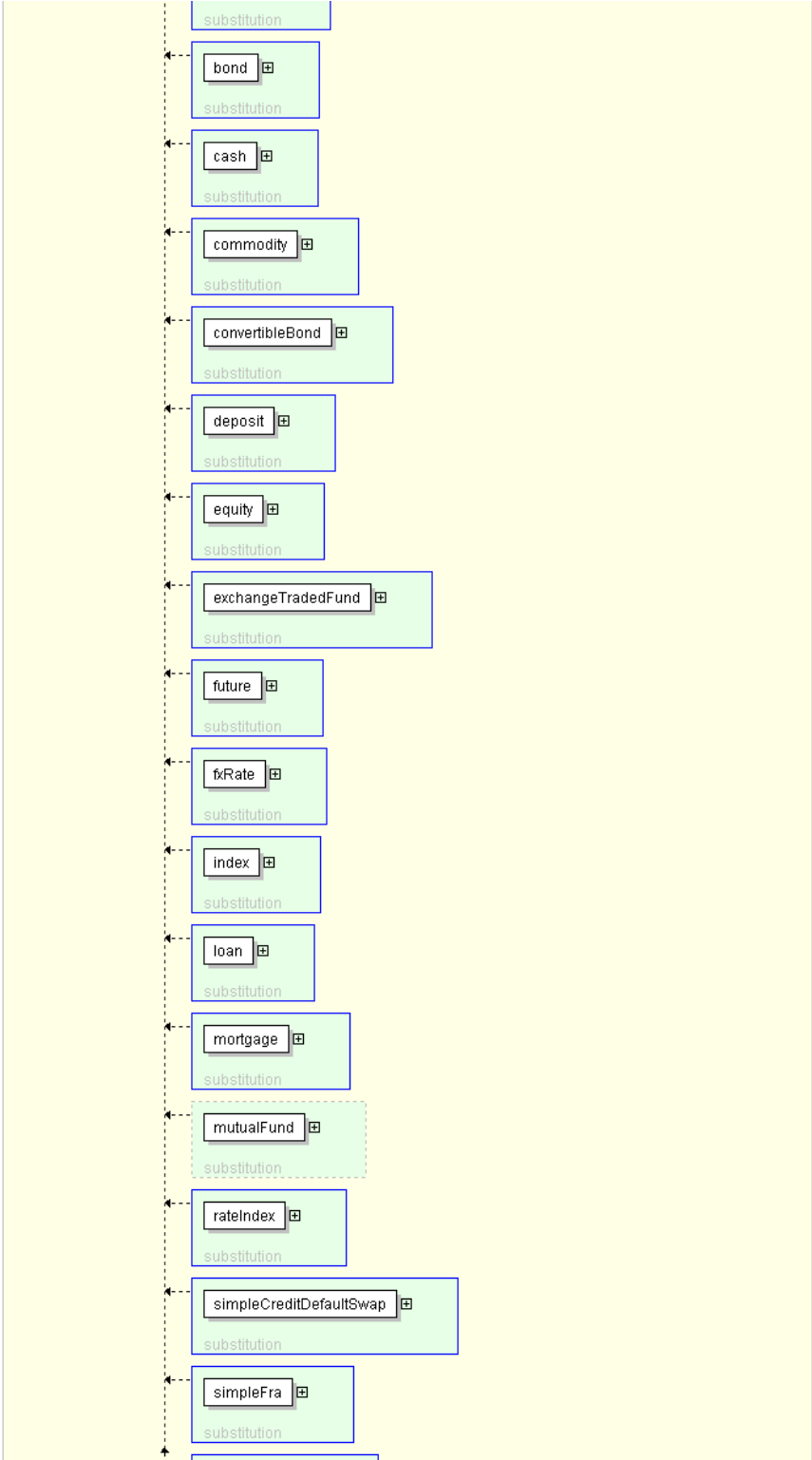
  <openEndedFund> xsd:boolean </openEndedFund> [0..1]
  'Boolean indicator to specify whether the mutual fund is an open-ended mutual fund.'

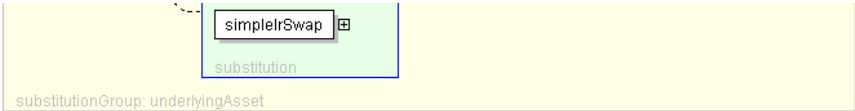
  <fundManager> xsd:string </fundManager> [0..1]
  'Specifies the fund manager that is in charge of the fund.'

</mutualFund>
```

Diagram







Schema Component Representation

```
<xsd:element name="mutualFund" type="MutualFund" substitutionGroup="underlyingAsset"/>
```

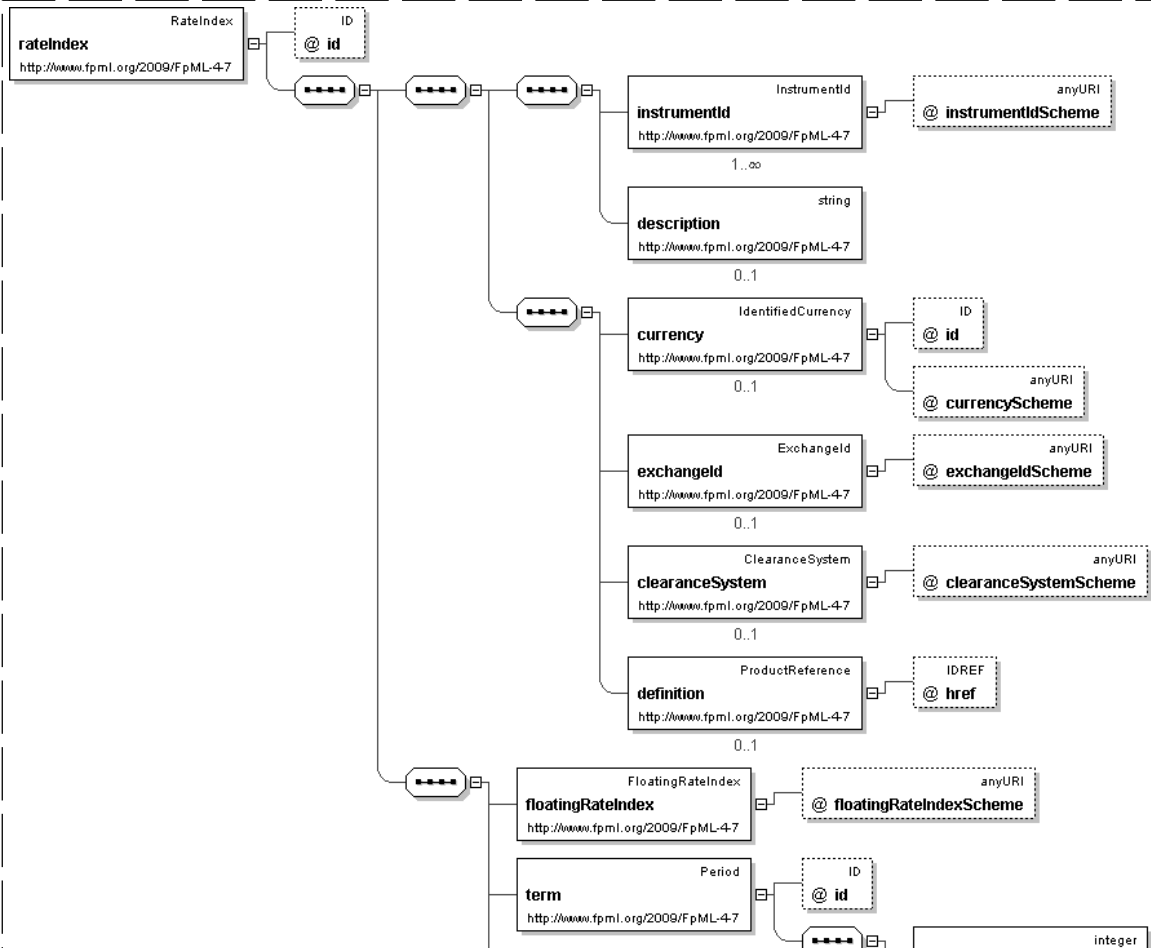
[top](#)

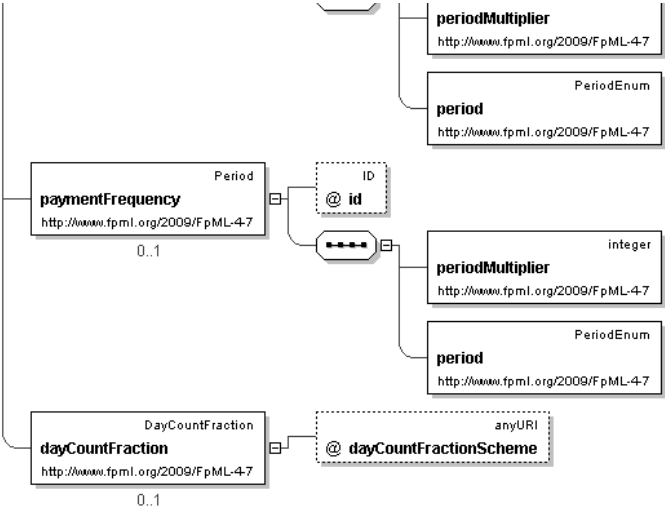
Element: **rateIndex**

- . This element can be used wherever the following element is referenced:
  - [underlyingAsset](#)

Name	rateIndex
Type	<a href="#">RateIndex</a>
Nilable	no
Abstract	no
Documentation	Defines a simple underlying asset that is an interest rate index. Used for specifying benchmark assets in the market environment in the pricing and risk model.

Logical Diagram





XML Instance Representation

```
<rateIndex
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

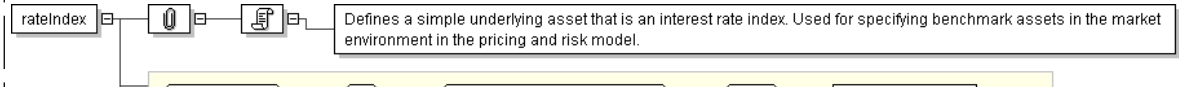
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <term> Period </term> [1]
  'Specifies the term of the simple swap, e.g. 5Y.'

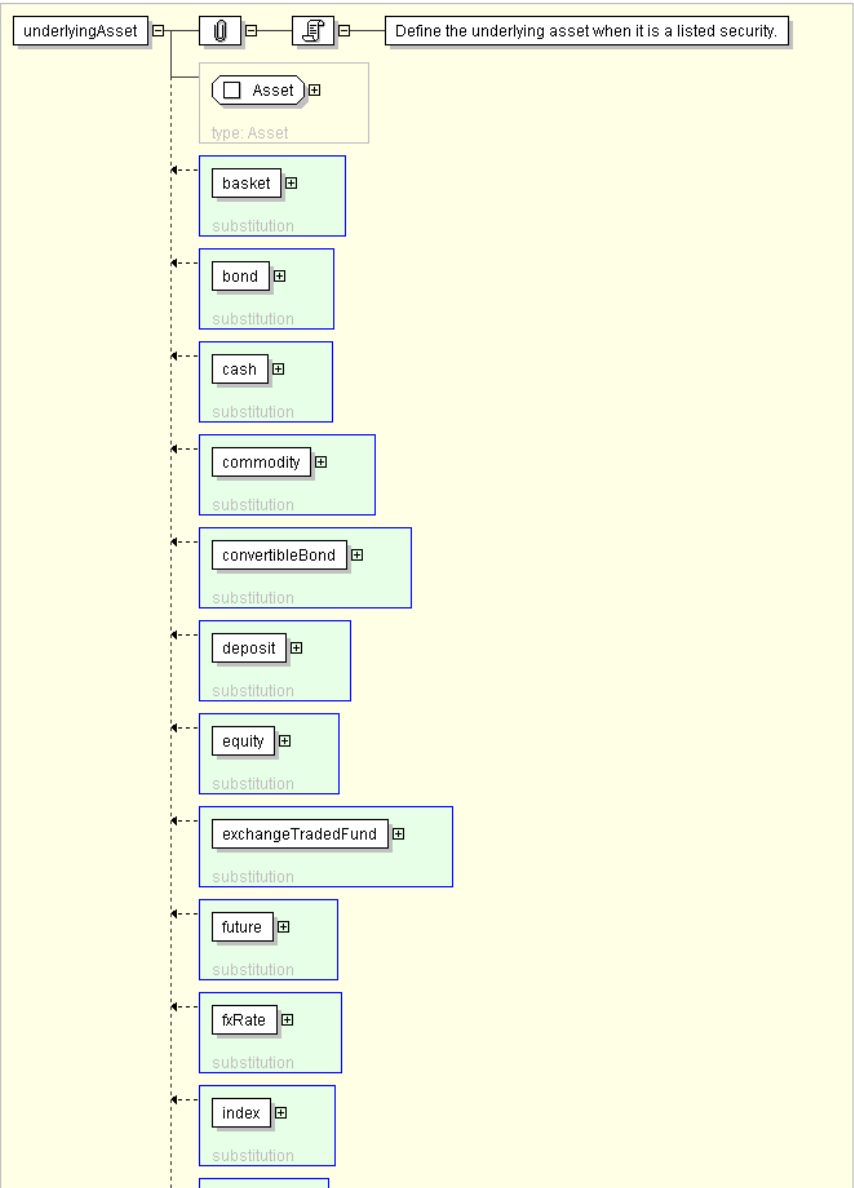
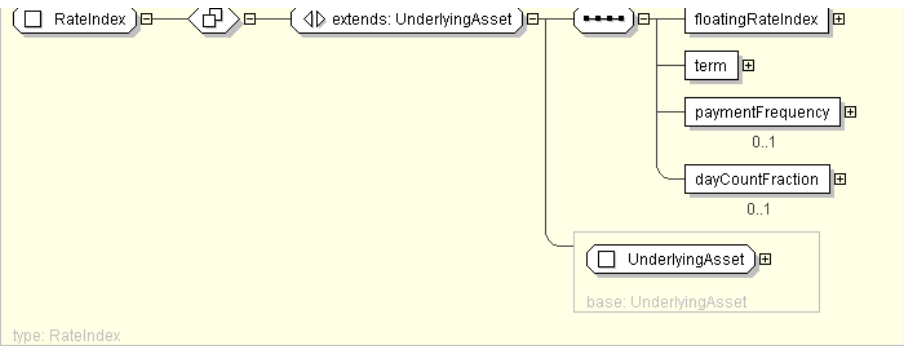
  <paymentFrequency> Period </paymentFrequency> [0..1]
  'Specifies the frequency at which the index pays, e.g. 6M.'

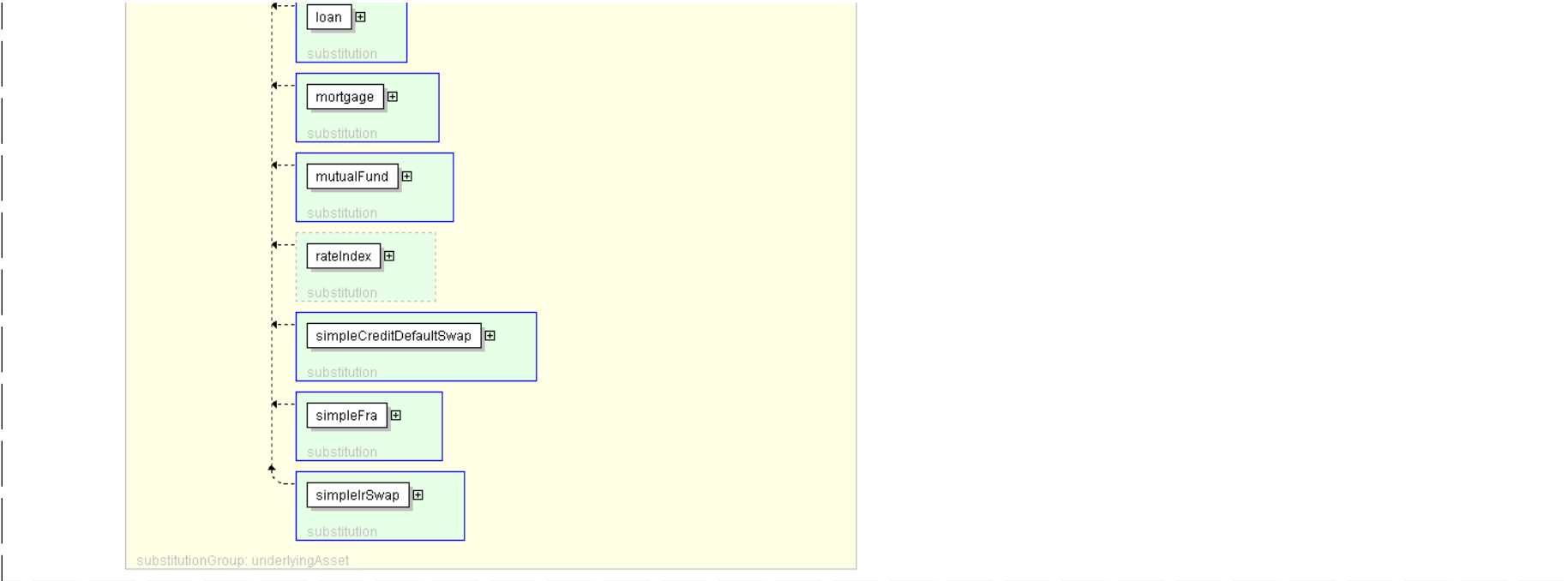
  <dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
  'The day count basis for the index.'

</rateIndex>
```

Diagram







Schema Component Representation

```
<xsd:element name="rateIndex" type="RateIndex" substitutionGroup="underlyingAsset"/>
```

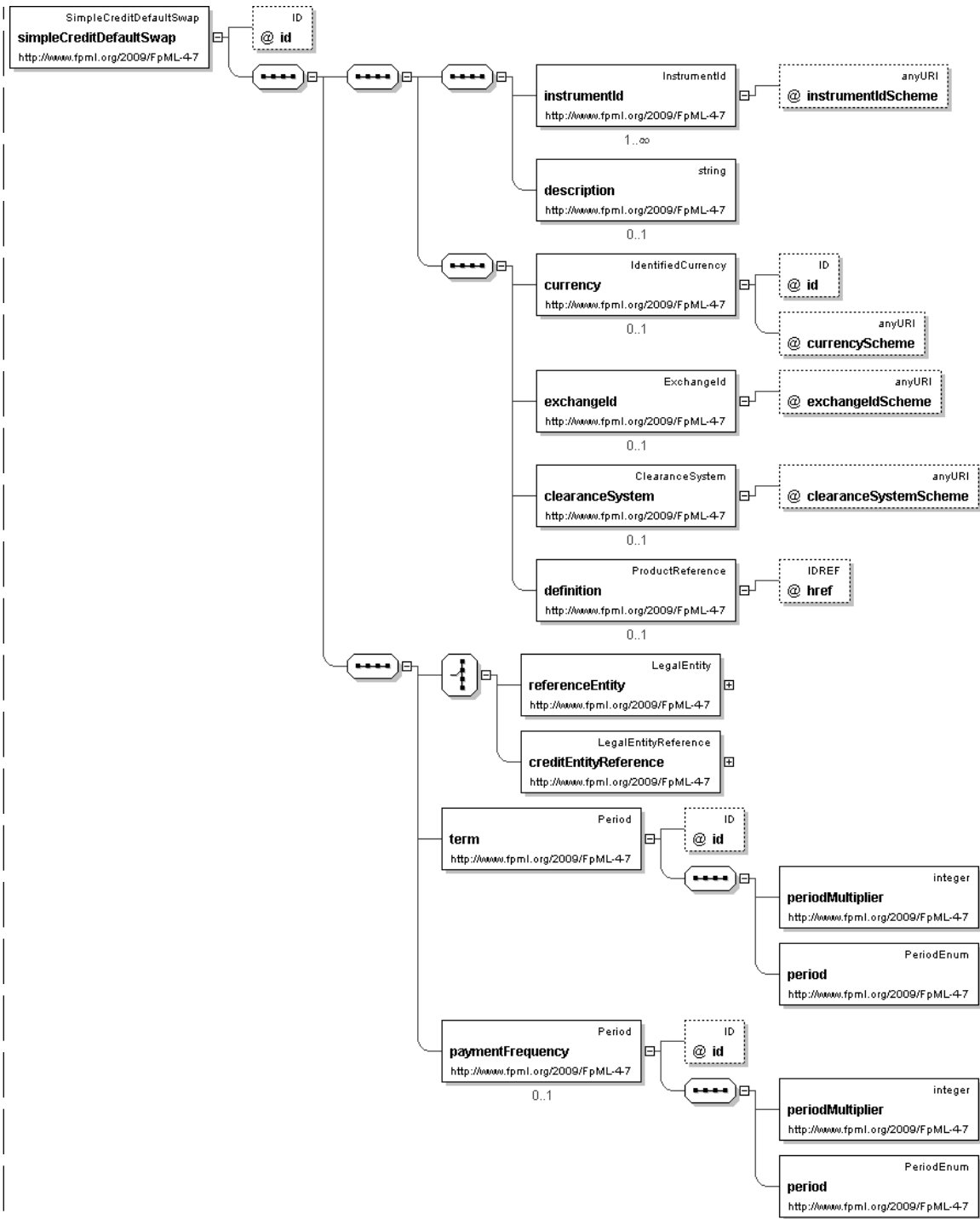
[top](#)

Element: simpleCreditDefaultSwap

- . This element can be used wherever the following element is referenced:
  - ↳ [underlyingAsset](#)

Name	simpleCreditDefaultSwap
Type	<a href="#">SimpleCreditDefaultSwap</a>
Nillable	no
Abstract	no
Documentation	Defines a simple underlying asset that is a credit default swap.

Logical Diagram



#### XML Instance Representation

```

<simpleCreditDefaultSwap
  id="xsd:ID [0..1]*)>

```



```

<instrumentId> InstrumentId </instrumentId> [1..*]
'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

Start Choice [1]
  <referenceEntity> LegalEntity </referenceEntity> [1]
  'The entity for which this is defined.'

  <creditEntityReference> LegalEntityReference </creditEntityReference> [1]
  'An XML reference a credit entity defined elsewhere in the document.'

End Choice

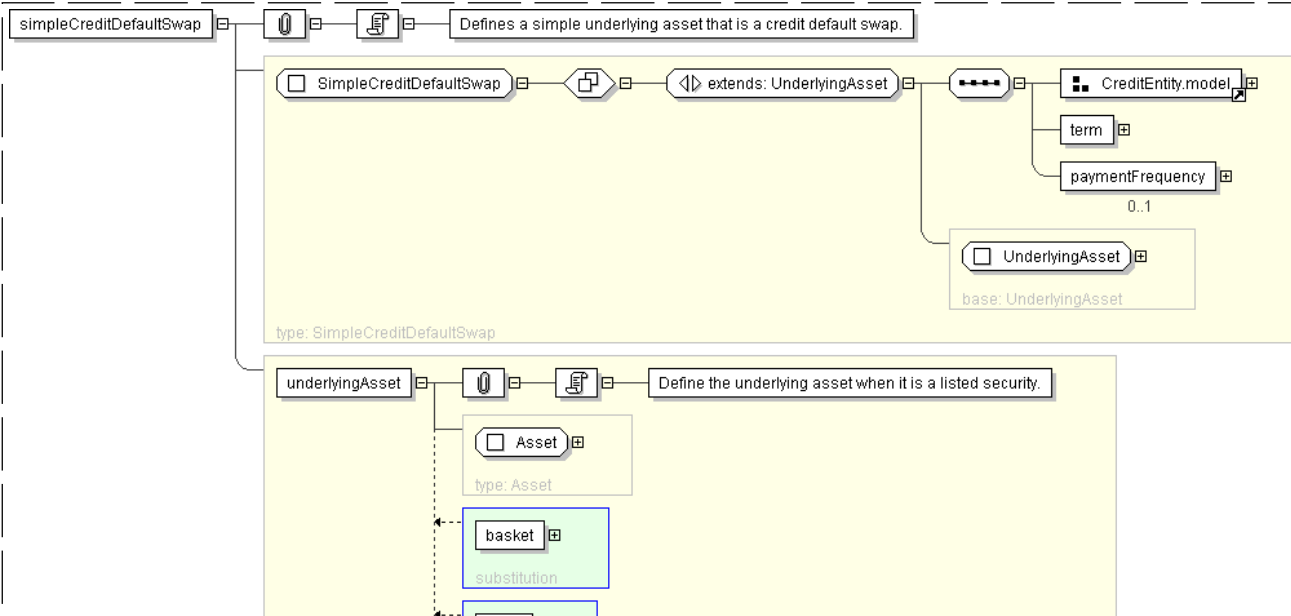
<term> Period </term> [1]
'Specifies the term of the simple CD swap, e.g. 5Y.'

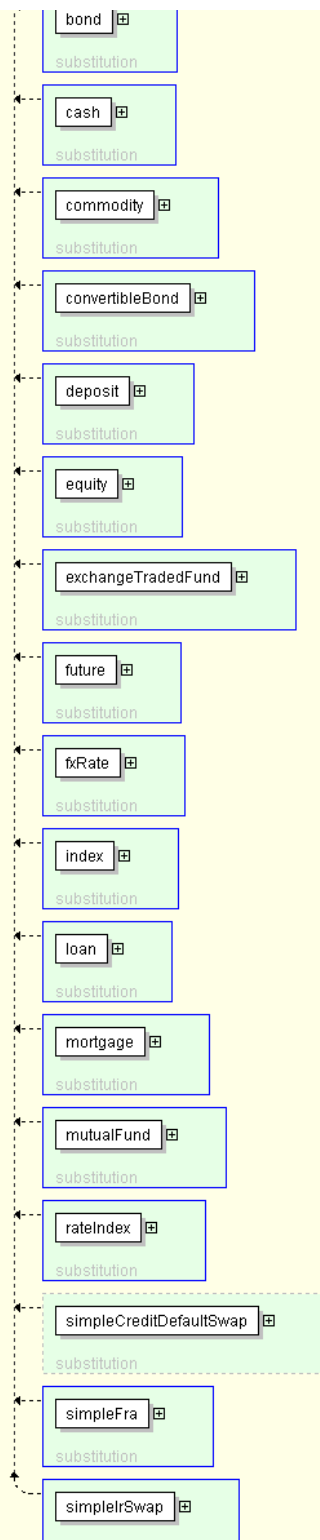
<paymentFrequency> Period </paymentFrequency> [0..1]
'Specifies the frequency at which the swap pays, e.g. 6M.'

</simpleCreditDefaultSwap>

```

## Diagram





substitution

substitutionGroup: underlyingAsset

Schema Component Representation

```
<xsd:element name="simpleCreditDefaultSwap" type="SimpleCreditDefaultSwap"
  * substitutionGroup="underlyingAsset"/>
```

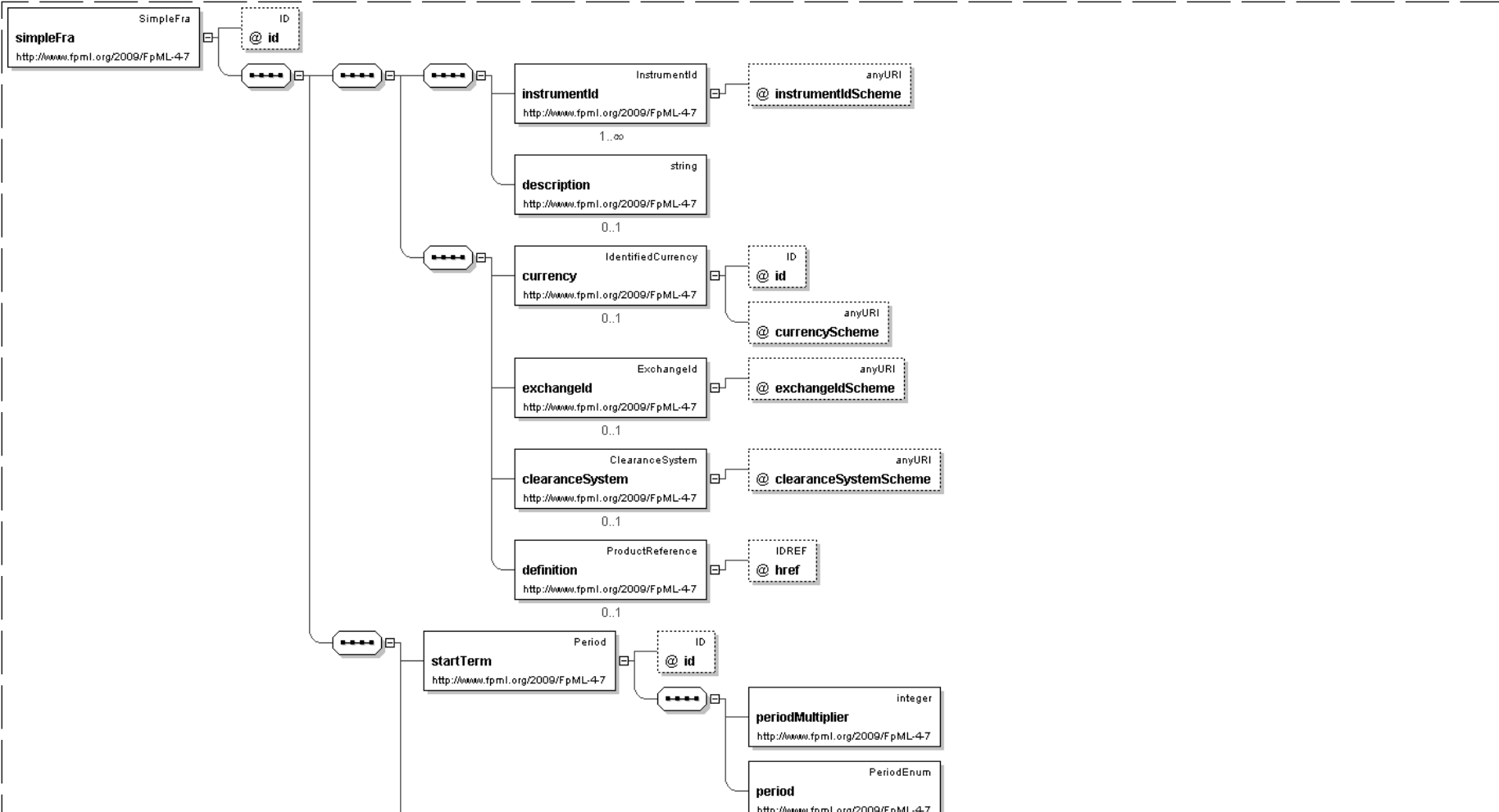
[top](#)

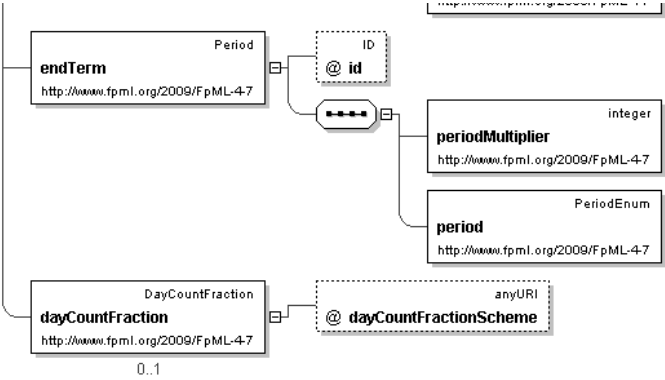
Element: simpleFra

- . This element can be used wherever the following element is referenced:
  - ↳ [underlyingAsset](#)

Name	simpleFra
Type	<a href="#">SimpleFra</a>
Nilable	no
Abstract	no
Documentation	Defines a simple underlying asset that is a forward rate agreement.

Logical Diagram





XML Instance Representation

```
<simpleFra
id="xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term "Exchange" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

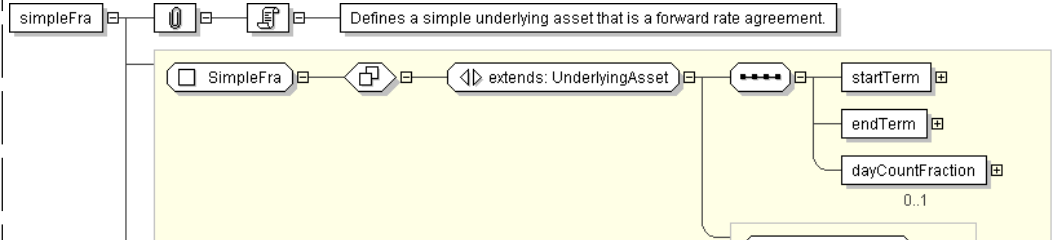
  <startTerm> Period </startTerm> [1]
  'Specifies the start term of the simple fra, e.g. 3M.'

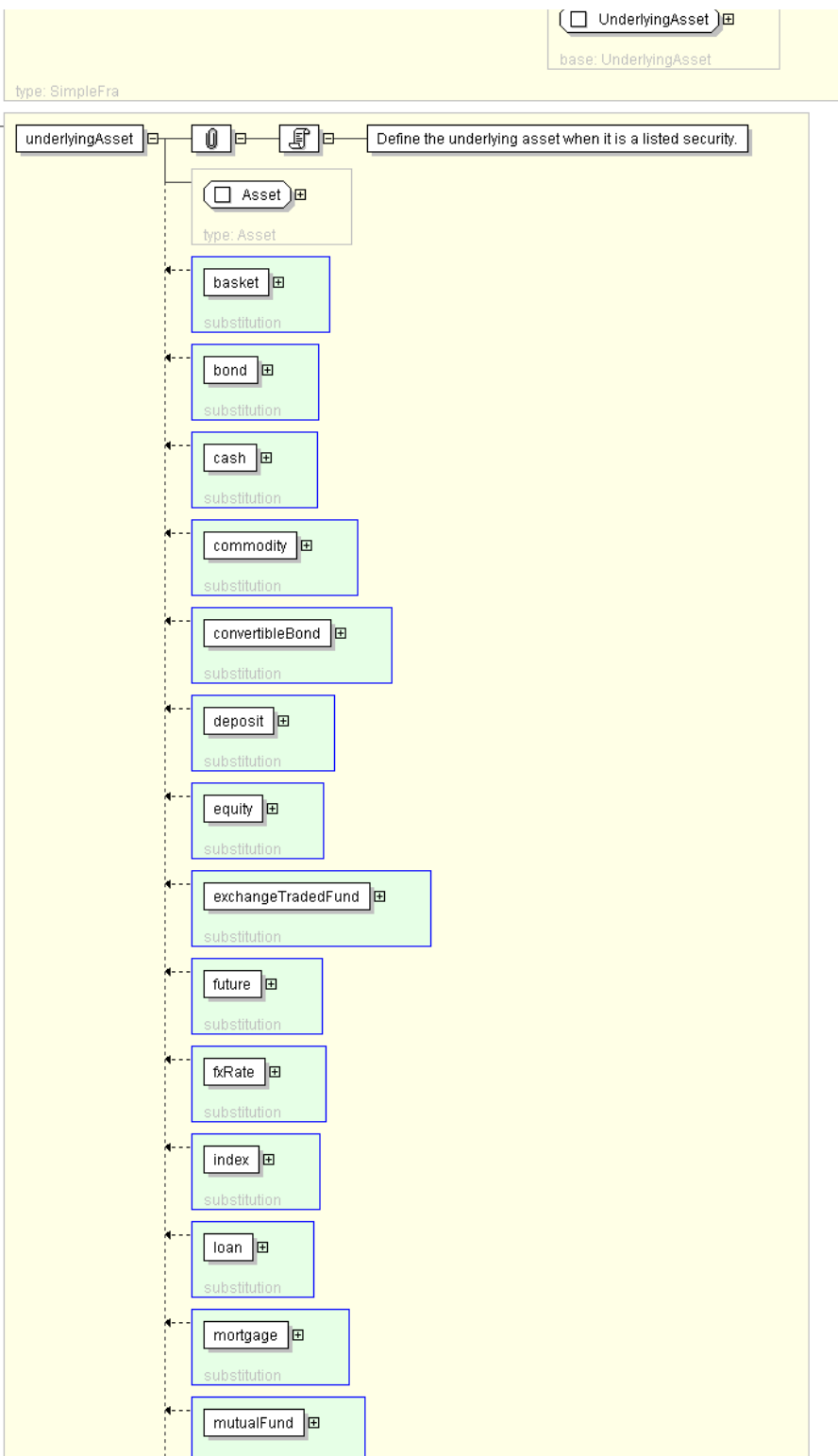
  <endTerm> Period </endTerm> [1]
  'Specifies the end term of the simple fra, e.g. 9M.'

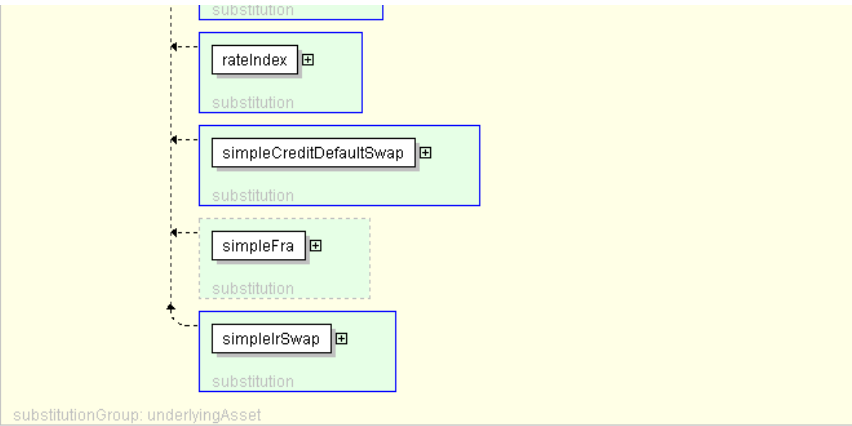
  <dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
  'The day count basis for the FRA.'

</simpleFra>
```

Diagram







Schema Component Representation

```
<xsd:element name="simpleFra" type=" SimpleFra " substitutionGroup="underlyingAsset" />
```

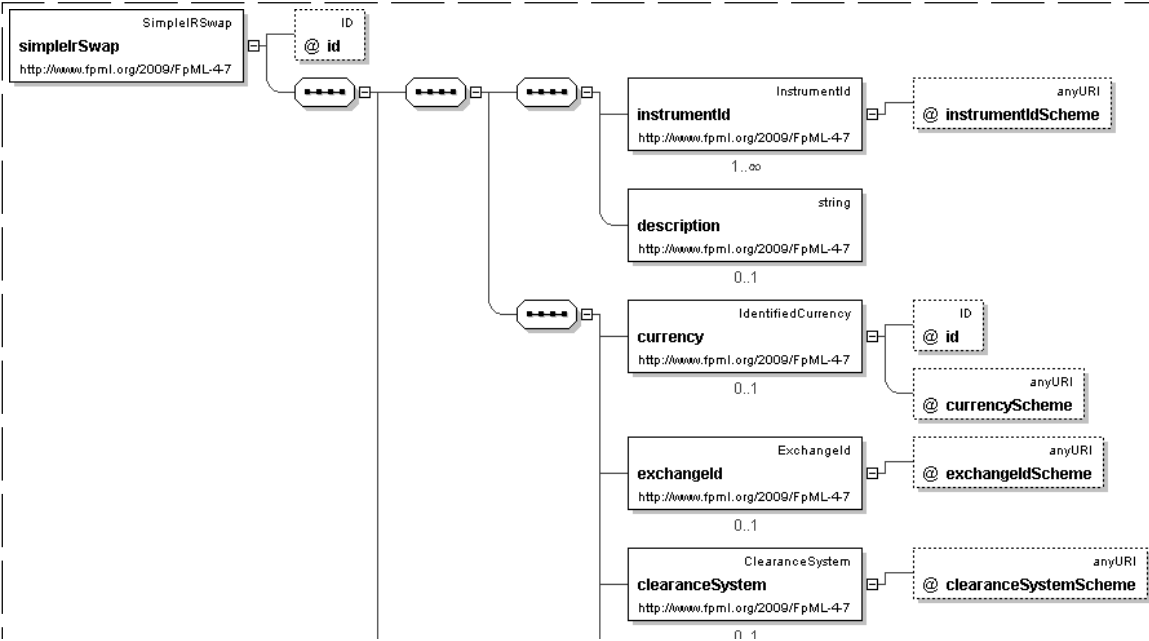
[top](#)

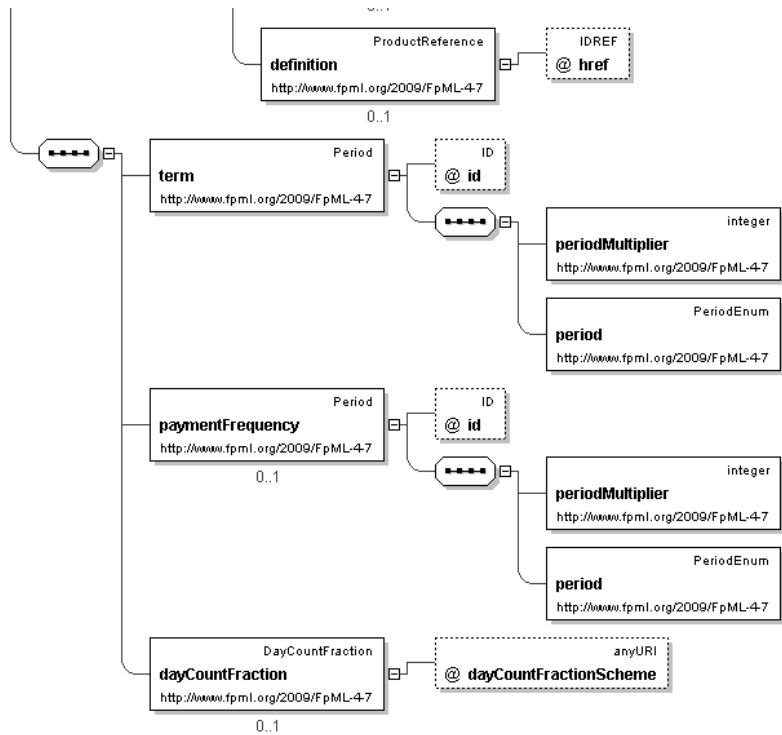
Element: **simpleIrSwap**

- . This element can be used wherever the following element is referenced:
  - o [underlyingAsset](#)

Name	simpleIrSwap
Type	<a href="#">SimpleIRSwap</a>
Nilable	no
Abstract	no
Documentation	Defines a simple underlying asset that is a swap.

Logical Diagram





#### XML Instance Representation

```
<simpleIrSwap
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term "Exchange" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

  <term> Period </term> [1]
  'Specifies the term of the simple swap, e.g. 5Y.'

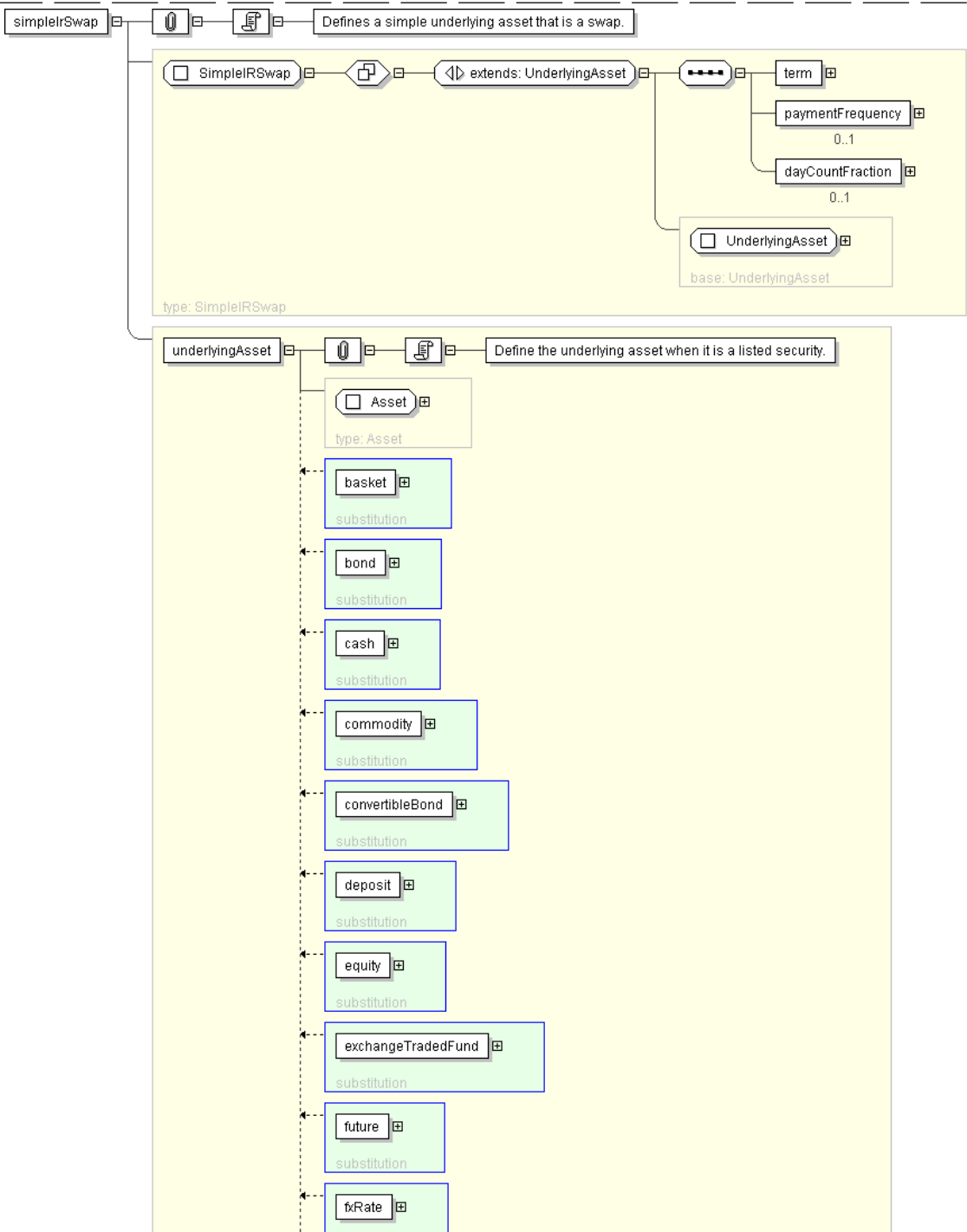
  <paymentFrequency> Period </paymentFrequency> [0..1]
  'Specifies the frequency at which the swap pays, e.g. 6M.'

  <dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
```

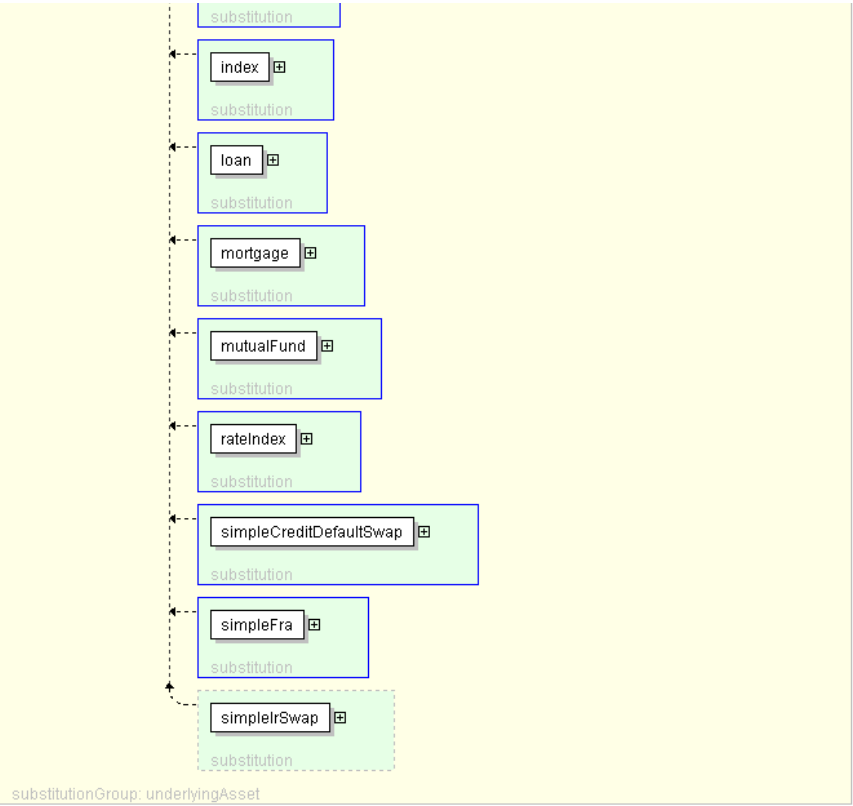
'The day count basis for the swap.'

</simpleIrSwap>

Diagram







Schema Component Representation

```
<xsd:element name="simpleIrSwap" type="SimpleIRSwap" substitutionGroup="underlyingAsset"/>
```

[top](#)

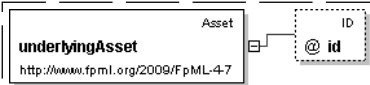
Element: **underlyingAsset**

- The following elements can be used wherever this element is referenced:
  - [basket](#)
  - [bond](#)
  - [cash](#)
  - [commodity](#)
  - [convertibleBond](#)
  - [deposit](#)
  - [equity](#)
  - [exchangeTradedFund](#)
  - [future](#)
  - [fxRate](#)
  - [index](#)
  - [loan](#)
  - [mortgage](#)
  - [mutualFund](#)
  - [rateIndex](#)
  - [simpleCreditDefaultSwap](#)
  - [simpleFra](#)
  - [simpleIrSwap](#)

Name	underlyingAsset
Used by (from the same schema document)	Complex Type <a href="#">BasketConstituent</a> , Complex Type <a href="#">SingleUnderlyer</a>

Type	<a href="#">Asset</a>
Nilable	no
Abstract	yes
Documentation	Define the underlying asset when it is a listed security.

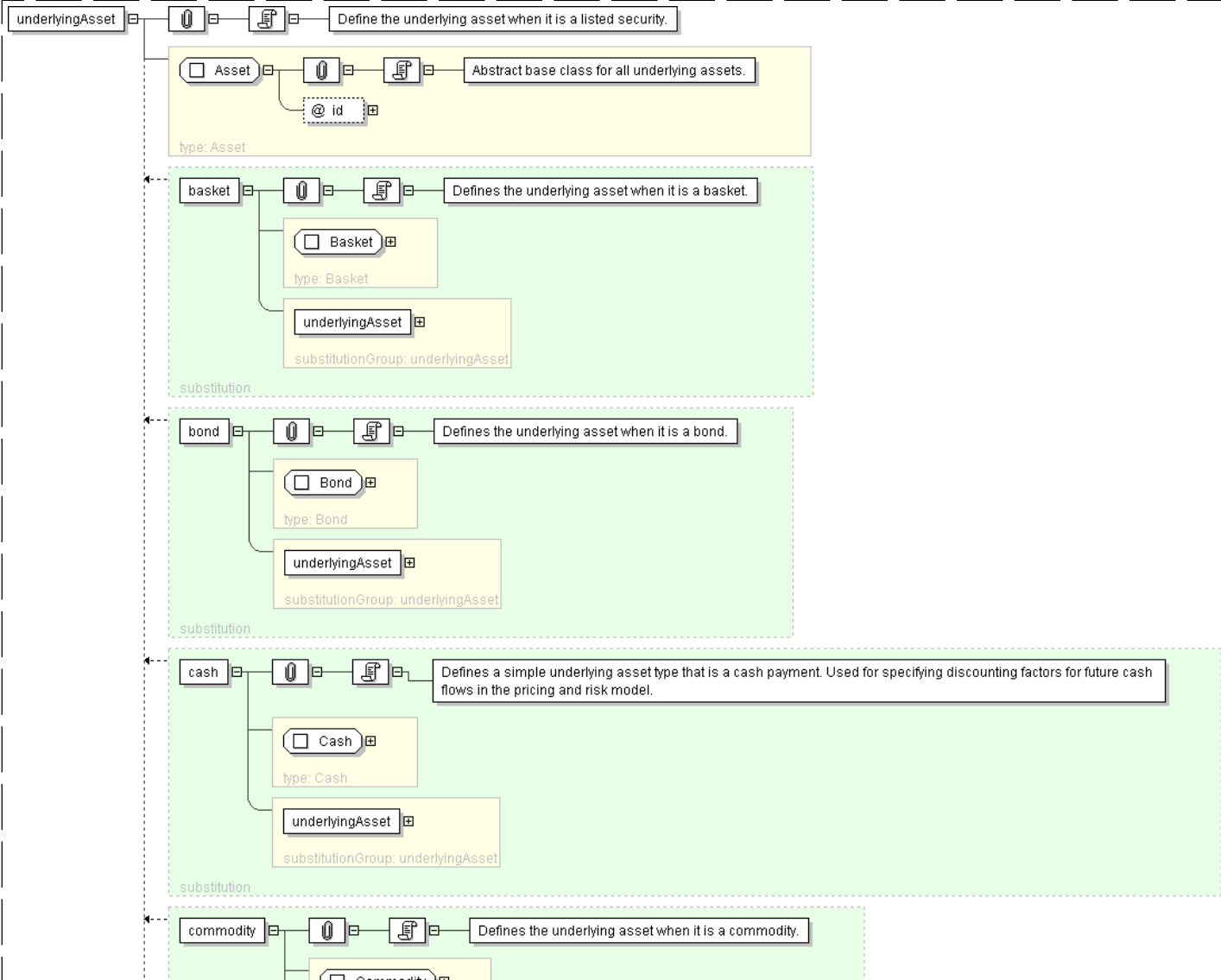
Logical Diagram

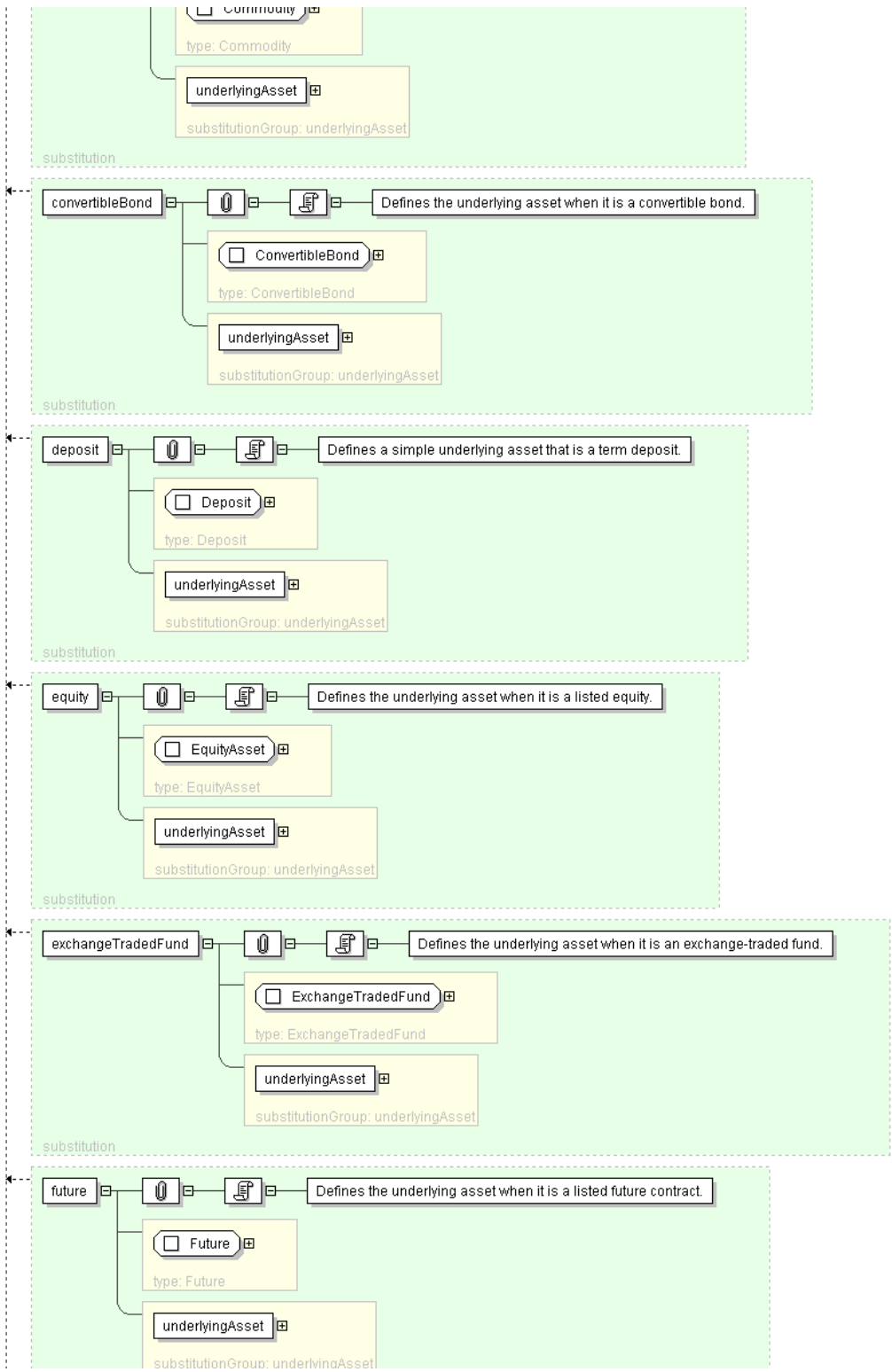


XML Instance Representation

```
<underlyingAsset
id="xsd:ID [0..1]"/>
```

Diagram





substitution

fxRate



Defines a simple underlying asset type that is an FX rate. Used for specifying FX rates in the pricing and risk model.

FxRateAsset

type: FxRateAsset

underlyingAsset

substitutionGroup: underlyingAsset

substitution

index



Defines the underlying asset when it is a financial index.

Index

type: Index

underlyingAsset

substitutionGroup: underlyingAsset

substitution

loan



Defines a simple underlying asset that is a loan.

Loan

type: Loan

underlyingAsset

substitutionGroup: underlyingAsset

substitution

mortgage



Defines an underlying asset that is a mortgage.

Mortgage

type: Mortgage

underlyingAsset

substitutionGroup: underlyingAsset

substitution

mutualFund



Defines the underlying asset when it is a mutual fund.

MutualFund

type: MutualFund

underlyingAsset

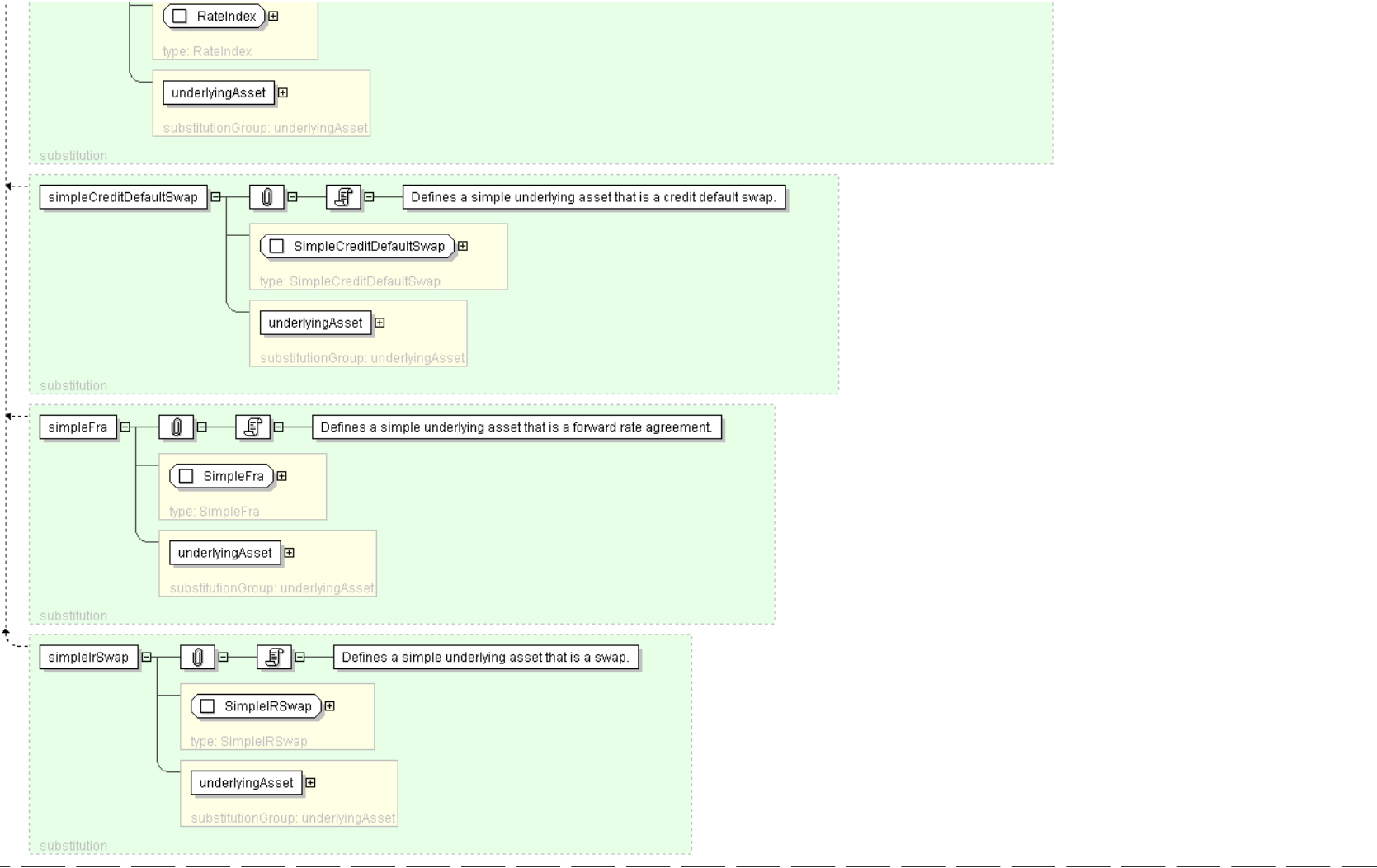
substitutionGroup: underlyingAsset

substitution

rateIndex



Defines a simple underlying asset that is an interest rate index. Used for specifying benchmark assets in the market environment in the pricing and risk model.



Schema Component Representation

```
<xsd:element name="underlyingAsset" type="Asset" abstract="true"/>
```

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Global Definitions

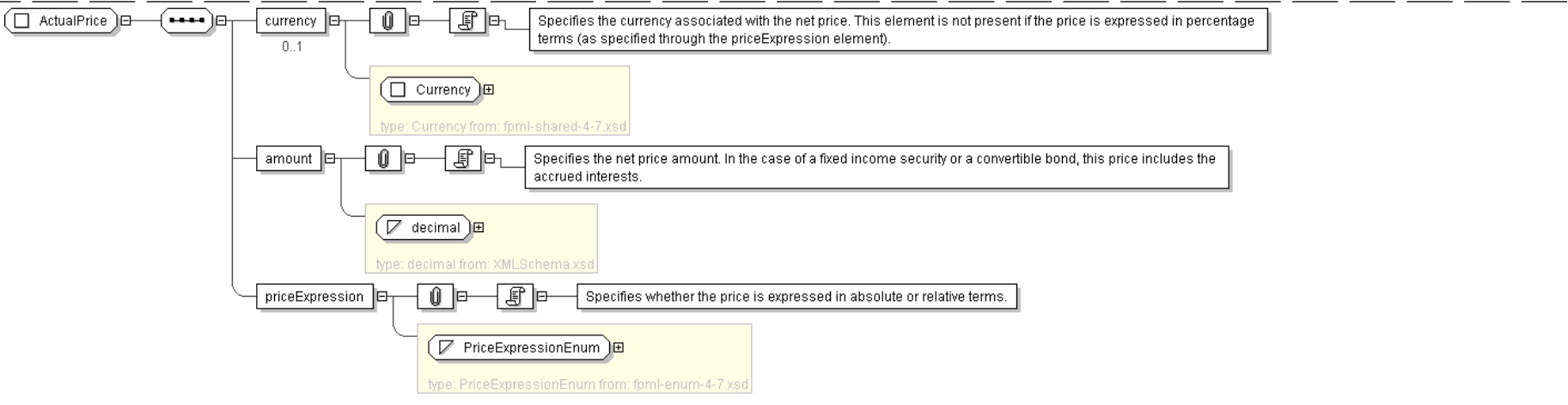
Complex Type: **ActualPrice**

Super-types:	None
Sub-types:	None
Name	ActualPrice
Used by (from the same schema document)	Model Group <a href="#">EquityPrice.model</a> , Model Group <a href="#">EquityPrice.model</a>
Abstract	no

XML Instance Representation

```
<...>
  <currency> Currency </currency> [0..1]
  'Specifies the currency associated with the net price. This element is not present if the
  price is expressed in percentage terms (as specified through the priceExpression element).'xsd:decimal </amount> [1]
  'Specifies the net price amount. In the case of a fixed income security or a convertible
  bond, this price includes the accrued interests.'PriceExpressionEnum </priceExpression> [1]
  'Specifies whether the price is expressed in absolute or relative terms.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ActualPrice">
  <xsd:sequence>
    <xsd:element name="currency" type="Currency" minOccurs="0"/>
    <xsd:element name="amount" type="xsd:decimal"/>
    <xsd:element name="priceExpression" type="PriceExpressionEnum"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **AnyAssetReference**

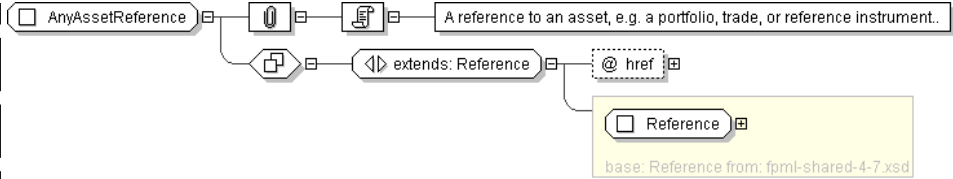
Super-types:	<a href="#">Reference</a> < <b>AnyAssetReference</b> (by extension)
Sub-types:	None

Name	AnyAssetReference
Abstract	no
Documentation	A reference to an asset, e.g. a portfolio, trade, or reference instrument..

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AnyAssetReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Asset**

Super-types:

Sub-types:

None

- [Basket](#) (by extension)
- [IdentifiedAsset](#) (by extension)
  - [Cash](#) (by extension)
  - [Commodity](#) (by extension)
  - [UnderlyingAsset](#) (by extension)
    - [Deposit](#) (by extension)
    - [ExchangeTraded](#) (by extension)
      - [Bond](#) (by extension)
        - [ConvertibleBond](#) (by extension)
      - [EquityAsset](#) (by extension)
      - [ExchangeTradedCalculatedPrice](#) (by extension)
        - [ExchangeTradedFund](#) (by extension)
        - [Index](#) (by extension)
      - [ExchangeTradedContract](#) (by extension)
      - [Future](#) (by extension)
    - [FxRateAsset](#) (by extension)
    - [Loan](#) (by extension)
    - [Mortgage](#) (by extension)
    - [MutualFund](#) (by extension)
    - [RateIndex](#) (by extension)
    - [SimpleCreditDefaultSwap](#) (by extension)
    - [SimpleFra](#) (by extension)
    - [SimpleIRSwap](#) (by extension)

Name	Asset
Used by (from the same schema document)	Element <a href="#">underlyingAsset</a>
Abstract	yes
Documentation	Abstract base class for all underlying assets.

XML Instance Representation

```
<...
id="xsd:ID [0..1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Asset" abstract="true">
  <xsd:attribute name="id" type="xsd:ID" />
```

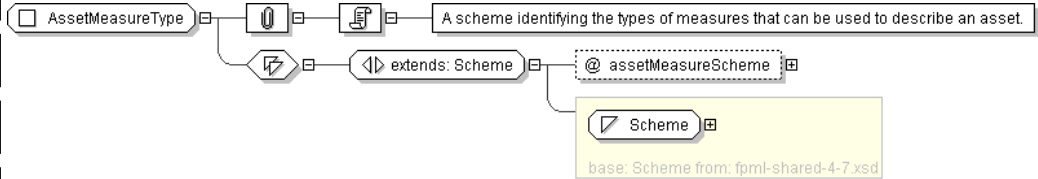
Complex Type: AssetMeasureType

Super-types:	<a href="#">Scheme</a> < <b>AssetMeasureType</b> (by extension)
Sub-types:	None
Name	AssetMeasureType
Used by (from the same schema document)	Model Group <a href="#">QuotationCharacteristics.model</a>
Abstract	no
Documentation	A scheme identifying the types of measures that can be used to describe an asset.

XML Instance Representation

```
<...  
  assetMeasureScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AssetMeasureType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="assetMeasureScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/asset-measure"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: AssetPool

Super-types:	None
Sub-types:	None
Name	AssetPool
Used by (from the same schema document)	Complex Type <a href="#">Mortgage</a>
Abstract	no
Documentation	Characterise the asset pool behind an asset backed bond.

XML Instance Representation

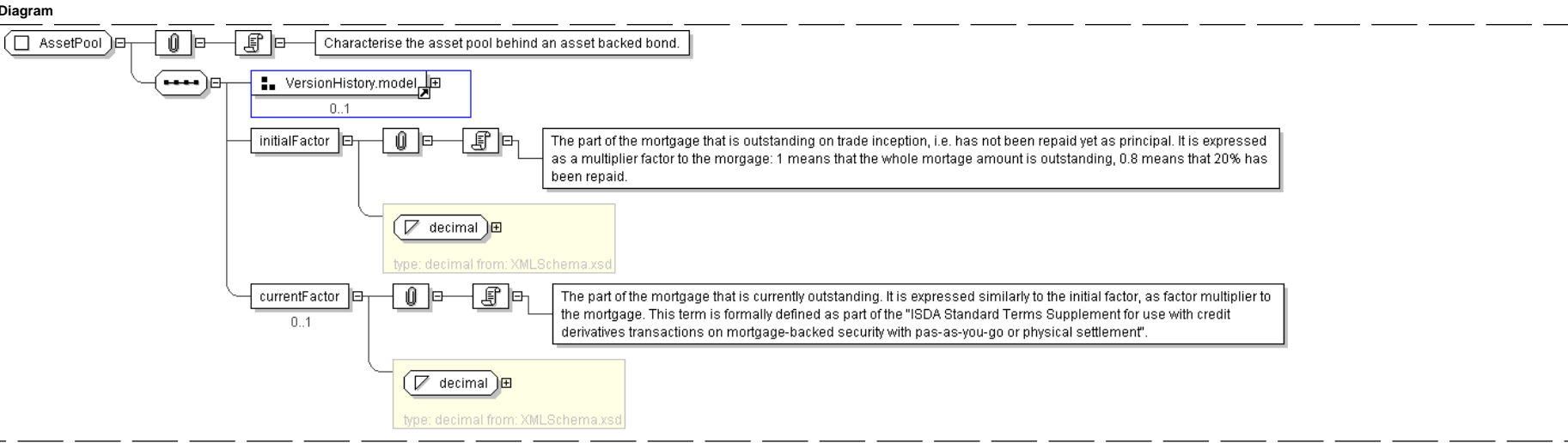
```
<...>  
Start Group: VersionHistory.model [0..1]  
  <version> xsd:nonNegativeInteger </version> [1]  
  'The version number'  
  
  <effectiveDate> IdentifiedDate </effectiveDate> [0..1]  
  'Optionally it is possible to specify a version effective date when a versionId is supplied.'  
  
End Group: VersionHistory.model
```



```
<initialFactor> xsd:decimal </initialFactor> [1]
'The part of the mortgage that is outstanding on trade inception, i.e. has not been repaid yet as principal. It is expressed as a multiplier factor to the morgage: 1 means that the whole mortgage amount is outstanding, 0.8 means that 20% has been repaid.'
```

```
<currentFactor> xsd:decimal </currentFactor> [0..1]
'The part of the mortgage that is currently outstanding. It is expressed similarly to the initial factor, as factor multiplier to the mortgage. This term is formally defined as part of the \"ISDA Standard Terms Supplement for use with credit derivatives transactions on mortgage-backed security with pas-as-you-go or physical settlement\".'
```

```
</...>
```



Schema Component Representation

```
<xsd:complexType name="AssetPool">
  <xsd:sequence>
    <xsd:group ref=" VersionHistory.model " minOccurs="0"/>
    <xsd:element name="initialFactor" type=" xsd:decimal " />
    <xsd:element name="currentFactor" type=" xsd:decimal " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **AssetReference**

Super-types:	<a href="#">Reference</a> < <b>AssetReference</b> (by extension)
Sub-types:	None
Name	AssetReference
Abstract	no
Documentation	Reference to an underlying asset.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```





Schema Component Representation

```
<xsd:complexType name="AssetReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Asset"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: BasicQuotation

Super-types:	None
Sub-types:	None

Name	BasicQuotation
Abstract	no
Documentation	Some kind of numerical measure about an asset, eg. its NPV, together with characteristics of that measure.

XML Instance Representation

```
<...>
  <value> xsd:decimal </value> [0..1]
  'The value of the the quotation.'

  <measureType> AssetMeasureType </measureType> [0..1]
  'The type of the value that is measured. This could be an NPV, a cash flow, a clean price, etc.'

  <quoteUnits> PriceQuoteUnits </quoteUnits> [0..1]
  'The optional units that the measure is expressed in. If not supplied, this is assumed to be a price/value in currency units.'

  <side> QuotationSideEnum </side> [0..1]
  'The side (bid/mid/ask) of the measure.'

  <currency> Currency </currency> [0..1]
  'The optional currency that the measure is expressed in. If not supplied, this is defaulted from the reportingCurrency in the valuationScenarioDefinition.'

  <timing> QuoteTiming </timing> [0..1]
  'When during a day the quote is for. Typically, if this element is supplied, the QuoteLocation needs also to be supplied.'

  Start Group: QuoteLocation.model [0..1]
  'Where the quote is from.'

  Start Choice [1]
    <businessCenter> BusinessCenter </businessCenter> [1]
    'A city or other business center.'

    <exchangeId> ExchangeId </exchangeId> [1]
    'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'

  End Choice
End Group: QuoteLocation.model
```

```
<informationSource> InformationSource </informationSource> [0..*]
'The information source where a published or displayed market rate will be obtained, e.
g. Telerate Page 3750.'
```

```
<time> xsd:dateTime </time> [0..1]
'When the quote was observed or derived.'
```

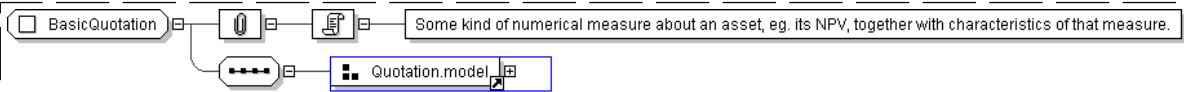
```
<valuationDate> xsd:date </valuationDate> [0..1]
'When the quote was computed.'
```

```
<expiryTime> xsd:dateTime </expiryTime> [0..1]
'When does the quote cease to be valid.'
```

```
<cashFlowType> CashflowType </cashFlowType> [0..1]
'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium
Fee, Settlement Fee, Brokerage Fee, etc.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BasicQuotation">
  <xsd:sequence>
    <xsd:group ref=" Quotation.model " />
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **Basket**

Super-types:	<a href="#">Asset</a> < <b>Basket</b> (by extension)
Sub-types:	None
Name	Basket
Used by (from the same schema document)	Complex Type <a href="#">Underlyer</a> , Element <a href="#">basket</a>
Abstract	no
Documentation	A type describing the underlyer features of a basket swap. Each of the basket constituents are described through an embedded component, the <code>basketConstituentsType</code> .

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <openUnits> xsd:decimal </openUnits> [0..1]
'The number of units (index or securities) that constitute the underlyer of the swap. In
the case of a basket swap, this element is used to reference both the number of basket
units, and the number of each asset components of the basket when these are expressed
in absolute terms.'
```

```
<basketConstituent> BasketConstituent </basketConstituent> [1..*]
'Describes each of the components of the basket.'
```

```
<basketDivisor> xsd:decimal </basketDivisor> [0..1]
'Specifies the basket divisor amount. This value is normally used to adjust the
constituent weight for pricing or to adjust for dividends, or other corporate actions.'
```

```
Start Group: BasketIdentifier.model [0..1]
'Reuses the group that specifies a name and an identifier for a given basket.'
```

```
Start Choice [1]
  <basketName> BasketName </basketName> [1]
  'The name of the basket expressed as a free format string. FpML does not define usage rules for this element.'

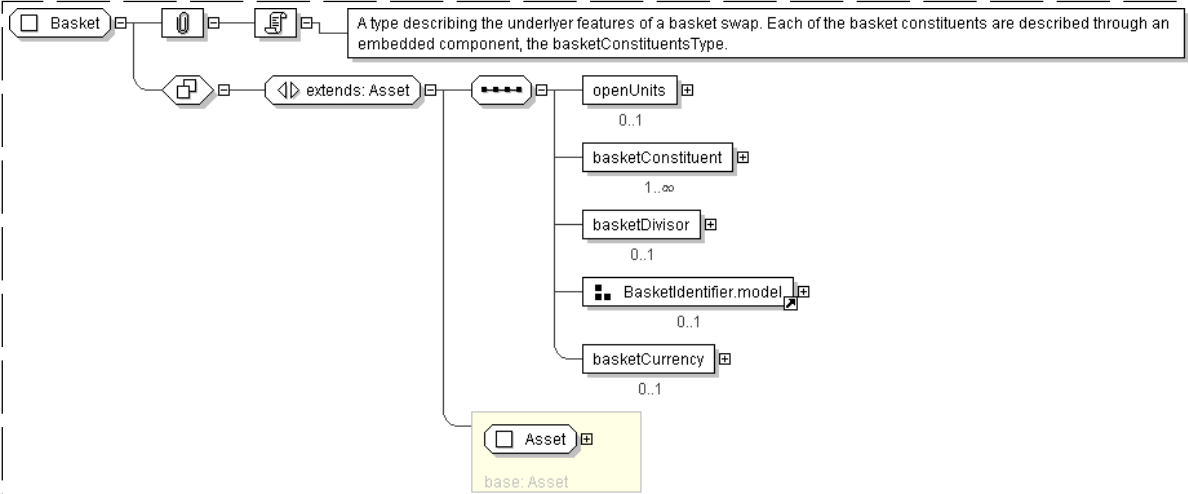
  <basketId> BasketId </basketId> [0..*]
  'A CDS basket identifier'

  <basketId> BasketId </basketId> [1..*]
  'A CDS basket identifier'

End Choice
End Group: BasketIdentifier.model
<basketCurrency> Currency </basketCurrency> [0..1]
'Specifies the currency for this basket.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Basket">
  <xsd:complexContent>
    <xsd:extension base="Asset" />
    <xsd:sequence>
      <xsd:element name="openUnits" type="xsd:decimal" minOccurs="0"/>
      <xsd:element name="basketConstituent" type="BasketConstituent" maxOccurs="unbounded"/>
      <xsd:element name="basketDivisor" type="xsd:decimal" minOccurs="0"/>
      <xsd:group ref="BasketIdentifier.model" minOccurs="0"/>
      <xsd:element name="basketCurrency" type="Currency" minOccurs="0"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **BasketConstituent**

Super-types:	None
Sub-types:	None
Name	BasketConstituent
Used by (from the same schema document)	Complex Type <a href="#">Basket</a>

Abstract	no
Documentation	A type describing each of the constituents of a basket.

XML Instance Representation

```
<...
id="xsd:ID [0..1]*">
<underlyingAsset> ... </underlyingAsset> [1]
<constituentWeight> ConstituentWeight </constituentWeight> [0..1]
'Specifies the weight of each of the underlyer constituent within the basket, either
in absolute or relative terms. This is an optional component, as certain swaps do not specify
a specific weight for each of their basket constituents.'

<dividendPayout> DividendPayout </dividendPayout> [0..1]
'Specifies the dividend payout ratio associated with an equity underlyer. A basket swap
can have different payout ratios across the various underlying constituents. In certain
cases the actual ratio is not known on trade inception, and only general conditions are
then specified. Users should note that FpML makes a distinction between the derivative
contract and the underlyer of the contract. It would be better if the agreed dividend payout
on a derivative contract was modelled at the level of the derivative contract, an
approach which may be adopted in the next major version of FpML.'

<underlyerPrice> Price </underlyerPrice> [0..1]
'Specifies the price that is associated with each of the basket constituents. This component
is optional, as it is not absolutely required to accurately describe the economics of
the trade, considering the price that characterizes the equity swap is associated to the leg
of the trade.'

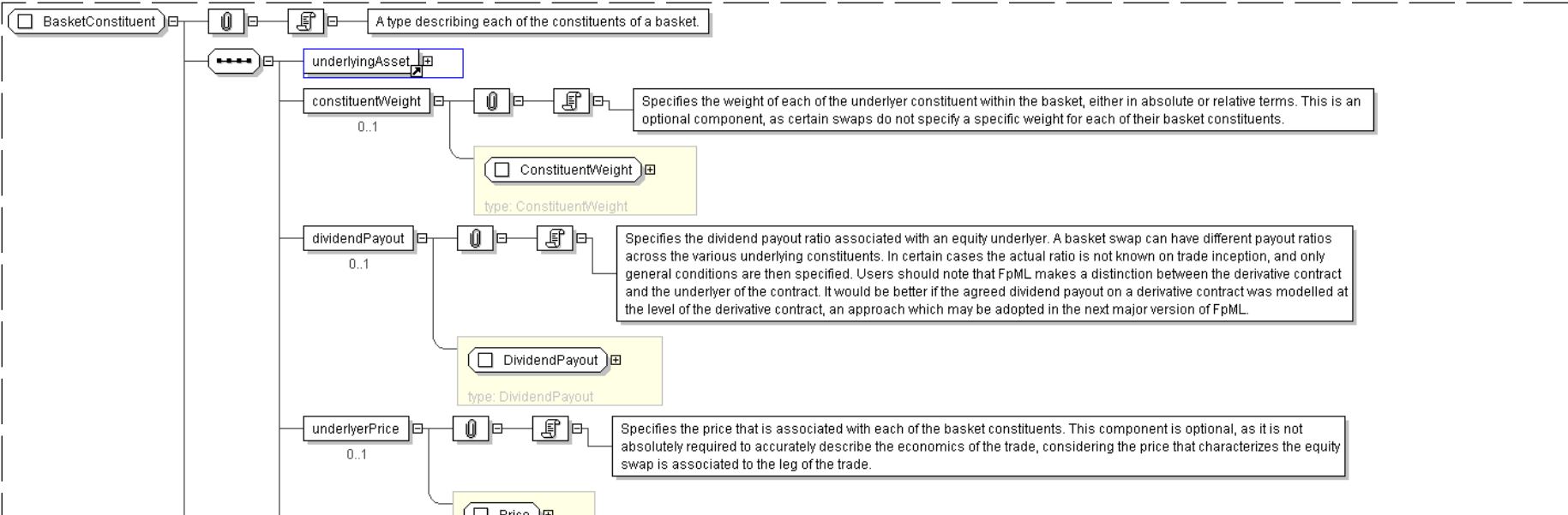
<underlyerNotional> Money </underlyerNotional> [0..1]
'Specifies the notional (i.e. price * quantity) that is associated with each of the
basket constituents. This component is optional, as it is not absolutely required to
accurately describe the economics of the trade, considering the notional that characterizes
the equity swap is associated to the leg of the trade.'

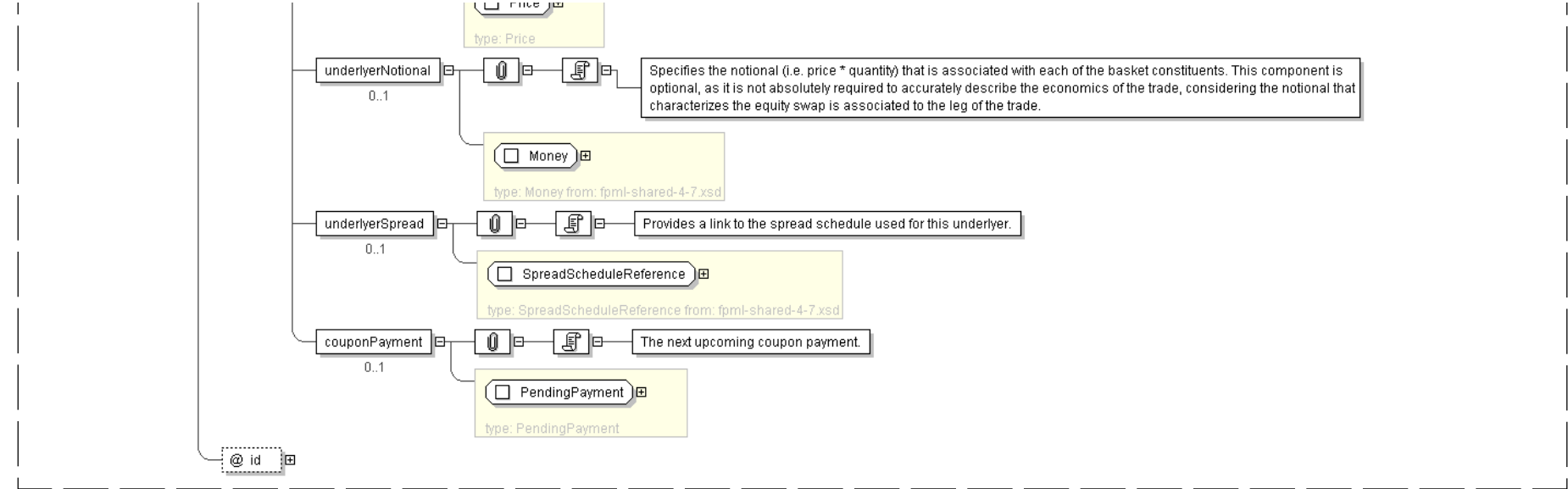
<underlyerSpread> SpreadScheduleReference </underlyerSpread> [0..1]
'Provides a link to the spread schedule used for this underlyer.'

<couponPayment> PendingPayment </couponPayment> [0..1]
'The next upcoming coupon payment.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="BasketConstituent">
  <xsd:sequence>
    <xsd:element ref="underlyingAsset" />
    <xsd:element name="constituentWeight" type="ConstituentWeight" minOccurs="0"/>
    <xsd:element name="dividendPayout" type="DividendPayout" minOccurs="0"/>
    <xsd:element name="underlierPrice" type="Price" minOccurs="0"/>
    <xsd:element name="underlierNotional" type="Money" minOccurs="0"/>
    <xsd:element name="underlierSpread" type="SpreadScheduleReference" minOccurs="0"/>
    <xsd:element name="couponPayment" type="PendingPayment" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" use="optional"/>
</xsd:complexType>
```

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Complex Type: **BasketId**

Super-types:	<a href="#">Scheme</a> < <b>BasketId</b> (by extension)
Sub-types:	None
Name	BasketId
Used by (from the same schema document)	Model Group <a href="#">BasketIdentifier.model</a> , Model Group <a href="#">BasketIdentifier.model</a>
Abstract	no

XML Instance Representation

```
<...
basketIdScheme="xsd:anyURI [0..1]">
  <Scheme />
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BasketId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="basketIdScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **BasketName**

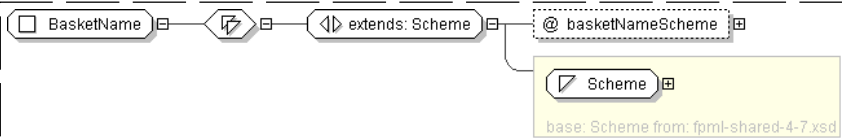
Super-types:	<a href="#">Scheme</a> < <b>BasketName</b> (by extension)
Sub-types:	None

Name	BasketName
Used by (from the same schema document)	Model Group <a href="#">BasketIdentifier.model</a>
Abstract	no

XML Instance Representation

```
<...
basketNameScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BasketName">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="basketNameScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **Bond**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <b>Bond</b> (by extension)
Sub-types:	• <a href="#">ConvertibleBond</a> (by extension)

Name	Bond
Used by (from the same schema document)	Element <a href="#">bond</a>
Abstract	no
Documentation	An exchange traded bond.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*"
<instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'
<description> xsd:string </description> [0..1]
```

'Long name of the underlying asset.'

<currency> [IdentifiedCurrency](#) </currency> [0..1]

'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> [ExchangeId](#) </exchangeId> [0..1]

'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> [ClearanceSystem](#) </clearanceSystem> [0..1]

'Identification of the clearance system associated with the transaction exchange.'

<definition> [ProductReference](#) </definition> [0..1]

'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'

<relatedExchangeId> [ExchangeId](#) </relatedExchangeId> [0..\*]

'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> [ExchangeId](#) </optionsExchangeId> [0..\*]

'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'

Start [Choice](#) [0..1]

'Specifies the issuer name of a fixed income security or convertible bond. This name can either be explicitly stated, or specified as an href into another element of the document, such as the obligor'

<issuerName> [xsd:string](#) </issuerName> [1]

<issuerPartyReference> [PartyReference](#) </issuerPartyReference> [1]

End Choice

<seniority> [CreditSeniority](#) </seniority> [0..1]

'The repayment precedence of a debt instrument.'

<couponType> [CouponType](#) </couponType> [0..1]

'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'

<couponRate> [xsd:decimal](#) </couponRate> [0..1]

'Specifies the coupon rate (expressed in percentage) of a fixed income security or convertible bond.'

<maturity> [xsd:date](#) </maturity> [0..1]

'The date when the principal amount of a security becomes due and payable.'

<parValue> [xsd:decimal](#) </parValue> [0..1]

'Specifies the nominal amount of a fixed income security or convertible bond.'

<faceAmount> [xsd:decimal](#) </faceAmount> [0..1]

'Specifies the total amount of the issue. Corresponds to the par value multiplied by the number of issued security.'

<paymentFrequency> [Period](#) </paymentFrequency> [0..1]

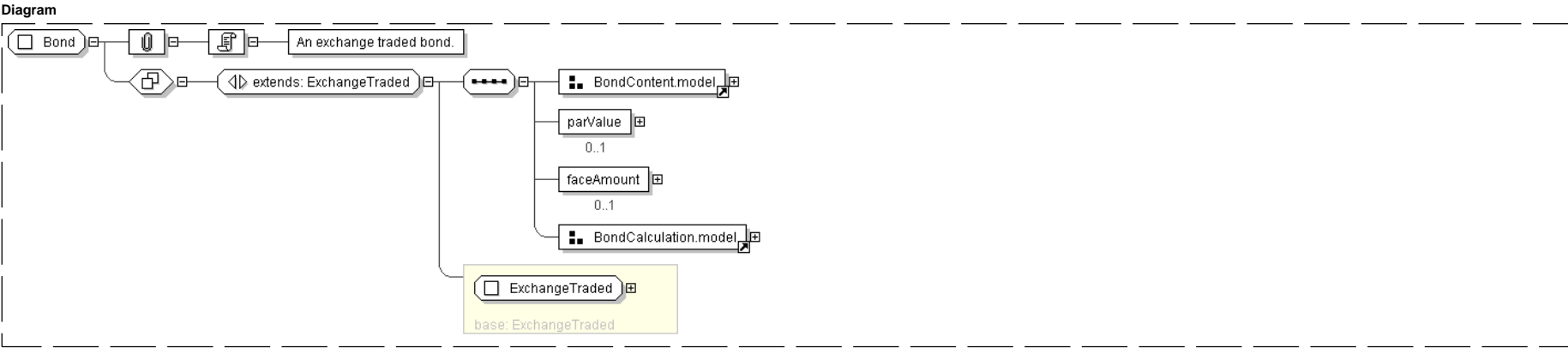
'Specifies the frequency at which the bond pays, e.g. 6M.'

<dayCountFraction> [DayCountFraction](#) </dayCountFraction> [0..1]

'The day count basis for the bond.'

</...>





Schema Component Representation

```
<xsd:complexType name="Bond">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTraded">
      <xsd:sequence>
        <xsd:group ref="BondContent.model"/>
        <xsd:element name="parValue" type="xsd:decimal" minOccurs="0"/>
        <xsd:element name="faceAmount" type="xsd:decimal" minOccurs="0"/>
        <xsd:group ref="BondCalculation.model"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **Cash**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <b>Cash</b> (by extension)
Sub-types:	None
Name	Cash
Used by (from the same schema document)	Element <a href="#">cash</a>
Abstract	no

XML Instance Representation

```
<...
  id="xsd:ID [0..1]">
    <instrumentId InstrumentId </instrumentId> [1..*]
    'Identification of the underlying asset, using public and/or private identifiers.'

    <description> xsd:string </description> [0..1]
    'Long name of the underlying asset.'

    <currency> Currency </currency> [1]
    'The currency in which an amount is denominated.'

  </...>
```



Schema Component Representation

```
<xsd:complexType name="Cash">
  <xsd:complexContent>
    <xsd:extension base=" IdentifiedAsset " >
      <xsd:sequence>
        <xsd:element name="currency" type=" Currency " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Commission**

Super-types:	None
Sub-types:	None

Name	Commission
Used by (from the same schema document)	Complex Type <a href="#">Price</a>
Abstract	no
Documentation	A type describing the commission that will be charged for each of the hedge transactions.

XML Instance Representation

```
<...>
  <commissionDenomination> CommissionDenominationEnum </commissionDenomination> [1]
  'The type of units used to express a commission.'

  <commissionAmount> xsd:decimal </commissionAmount> [1]
  'The commission amount, expressed in the way indicated by the commissionType element.'

  <currency> Currency </currency> [0..1]
  'The currency in which an amount is denominated.'

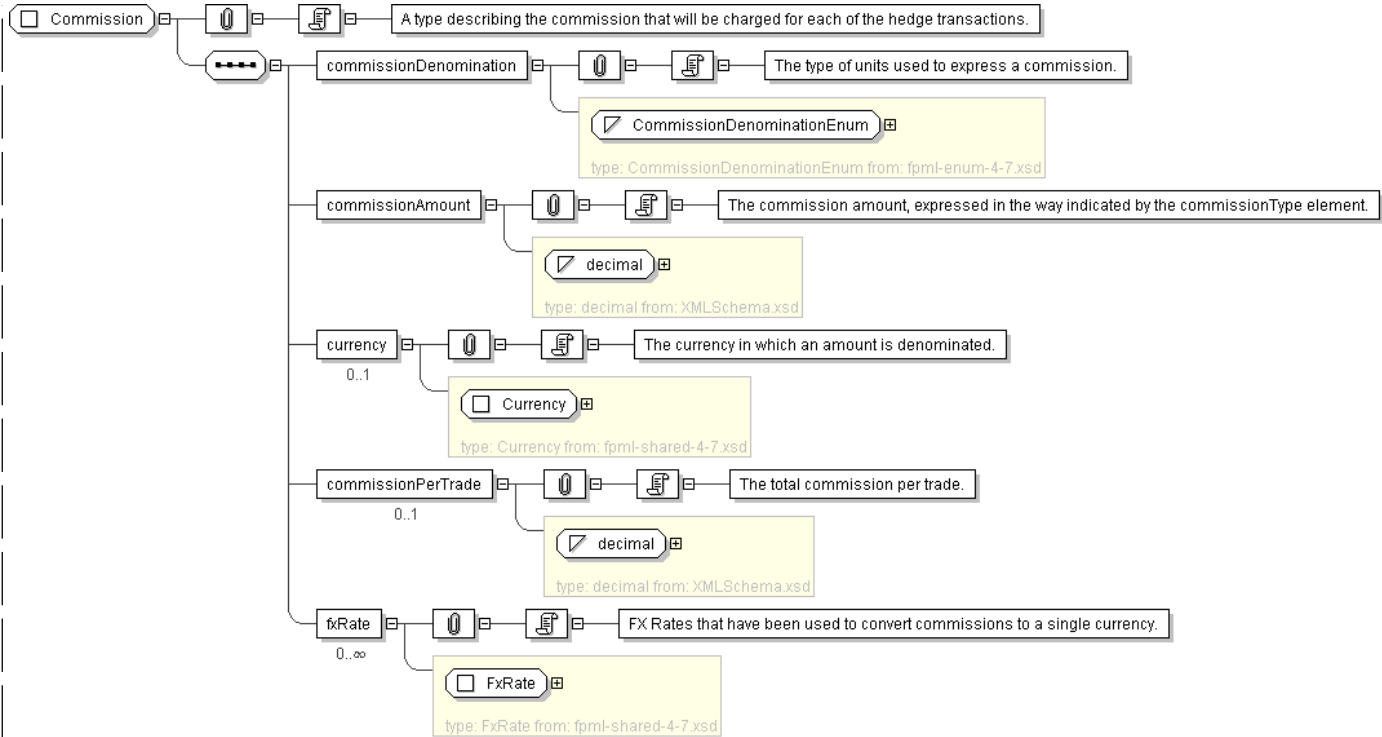
  <commissionPerTrade> xsd:decimal </commissionPerTrade> [0..1]
  'The total commission per trade.'

  <fxRate> FxRate </fxRate> [0..*]
  'FX Rates that have been used to convert commissions to a single currency.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Commission">
  <xsd:sequence>
    <xsd:element name="commissionDenomination" type="CommissionDenominationEnum" />
    <xsd:element name="commissionAmount" type="xsd:decimal" />
    <xsd:element name="currency" type="Currency" minOccurs="0"/>
    <xsd:element name="commissionPerTrade" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="fxRate" type="FxRate" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Commodity**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <b>Commodity</b> (by extension)
Sub-types:	None

Name	Commodity
Used by (from the same schema document)	Element <a href="#">commodity</a>
Abstract	no
Documentation	A type describing a commodity underlying asset.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]">
    <instrumentId> InstrumentId </instrumentId> [1..*]
    'Identification of the underlying asset, using public and/or private identifiers.'

    <description> xsd:string </description> [0..1]
    'Long name of the underlying asset.'
```

```
Start Group: CommodityReferencePriceFramework.model [0..1]
  <commodityBase> CommodityBase </commodityBase> [1]
  'A coding scheme value to identify the base type of the commodity being traded. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. For example, \'Oil\'. '

  <commodityDetails> CommodityDetails </commodityDetails> [1]
  'A coding scheme value to identify the commodity being traded more specifically. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. For example, \'Brent\'. '

  <unit> QuantityUnit </unit> [1]
  'A coding scheme value to identify the unit in which the undelyer is denominated. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. '

  <currency> Currency </currency> [1]
  'The currency in which the Commodity Reference Price is published. '

Start Choice [1]
  <exchangeId> ExchangeId </exchangeId> [1]
  'For those commodities being traded with reference to the price of a listed future, the exchange where that future is listed should be specified here. '

  <publication> InformationSource </publication> [1]
  'For those commodities being traded with reference to a price distributed by a publication, that publication should be specified here. '

End Choice
End Group: CommodityReferencePriceFramework.model
  <specifiedPrice> SpecifiedPriceEnum </specifiedPrice> [1]
  'The Specified Price is not defined in the Commodity Reference Price and so needs to be stated in the Underlyer definition as it will impact the calculation of the Floating Price. '

Start Sequence [0..1]
Start Choice [1]
  <deliveryDates> DeliveryDatesEnum </deliveryDates> [1]
  'The Delivery Date is a NearbyMonth, for use when the Commodity Transaction references Futures Contract. '

  <deliveryDate> AdjustableDate </deliveryDate> [1]
  'The Delivery Date is a fixed, single day. '

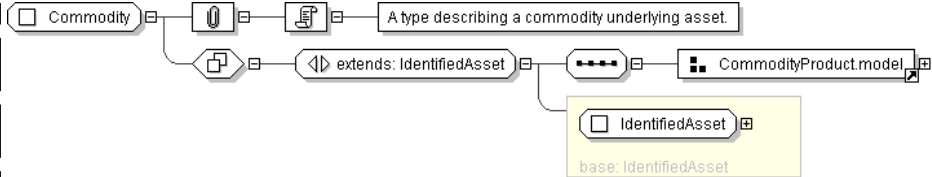
  <deliveryDateYearMonth> xsd:gYearMonth </deliveryDateYearMonth> [1]
  'The Delivery Date is a fixed, single month. '

End Choice
  <deliveryDateRollConvention> Offset </deliveryDateRollConvention> [0..1]
  'Specifies, for a Commodity Transaction that references a listed future via the deliveryDates element, the day on which the specified future will roll to the next nearby month when the referenced future expires. If the future will not roll at all - i.e. the price will be taken from the expiring contract, 0 should be specified here. If the future will roll to the next nearby on the last trading day - i.e. the price will be taken from the next nearby on the last trading day, then 1 should be specified and so on. '

End Sequence
  <multiplier> PositiveDecimal </multiplier> [0..1]
  'Specifies the multiplier associated with a Transaction. '

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Commodity">
  <xsd:complexContent>
    <xsd:extension base=" IdentifiedAsset " >
      <xsd:sequence>
        <xsd:group ref=" CommodityProduct.model " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **CommodityBase**

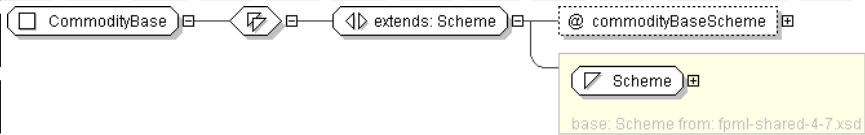
Super-types:	<a href="#">Scheme</a> < <b>CommodityBase</b> (by extension)
Sub-types:	None

Name	CommodityBase
Used by (from the same schema document)	Model Group <a href="#">CommodityReferencePriceFramework.model</a>
Abstract	no

XML Instance Representation

```
<...
 commodityBaseScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityBase">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="commodityBaseScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityBusinessCalendar**

Super-types:	<a href="#">Scheme</a> < <b>CommodityBusinessCalendar</b> (by extension)
Sub-types:	None

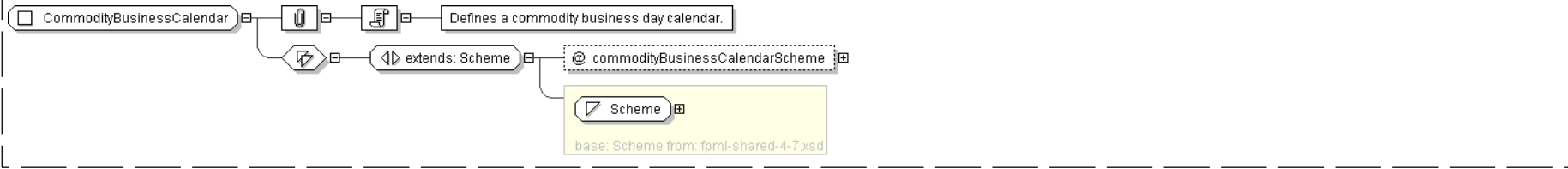
Name	CommodityBusinessCalendar
Used by (from the same schema document)	Complex Type <a href="#">CommodityBusinessCalendarTime</a>

Abstract	no
Documentation	Defines a commodity business day calendar.

XML Instance Representation

```
<...  
  commodityBusinessCalendarScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityBusinessCalendar">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme " >  
      <xsd:attribute name="commodityBusinessCalendarScheme" type=" xsd:anyURI " default="http://  
        www.fpml.org/coding-scheme/commodity-business-calendar"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: CommodityBusinessCalendarTime

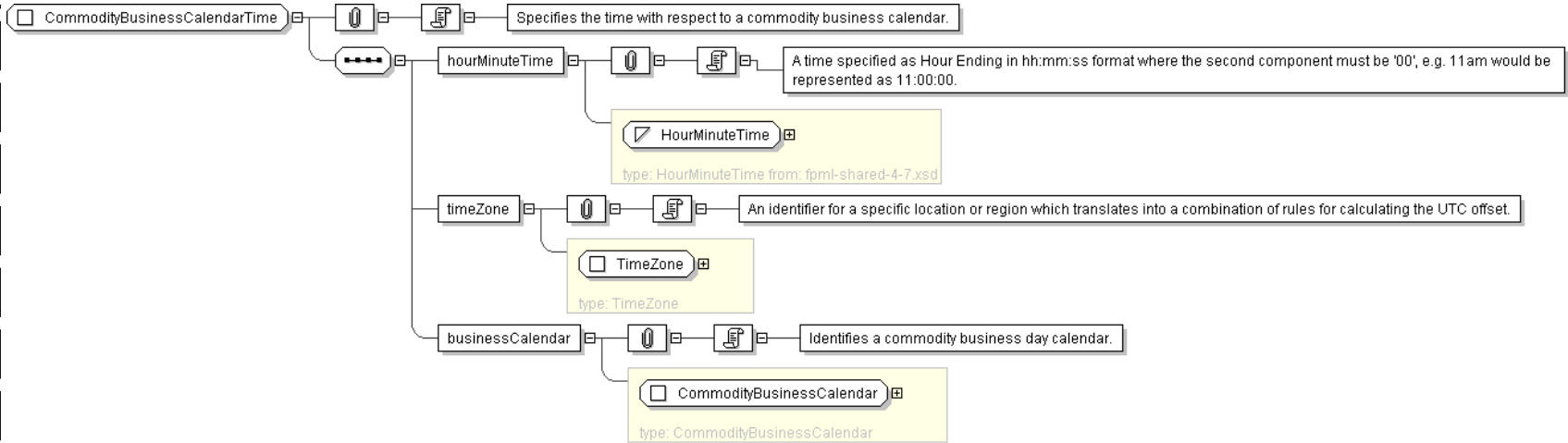
Super-types:	None
Sub-types:	None

Name	CommodityBusinessCalendarTime
Abstract	no
Documentation	Specifies the time with respect to a commodity business calendar.

XML Instance Representation

```
<...>  
  <hourMinuteTime> HourMinuteTime </hourMinuteTime> [1]  
  'A time specified as Hour Ending in hh:mm:ss format where the second component must be \'00  
  \', e.g. 11am would be represented as 11:00:00.'  
  
  <timeZone> TimeZone </timeZone> [1]  
  'An identifier for a specific location or region which translates into a combination of  
  rules for calculating the UTC offset.'  
  
  <businessCalendar> CommodityBusinessCalendar </businessCalendar> [1]  
  'Identifies a commodity business day calendar.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityBusinessCalendarTime">
  <xsd:sequence>
    <xsd:element name="hourMinuteTime" type=" HourMinuteTime " />
    <xsd:element name="timeZone" type=" TimeZone " />
    <xsd:element name="businessCalendar" type=" CommodityBusinessCalendar " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

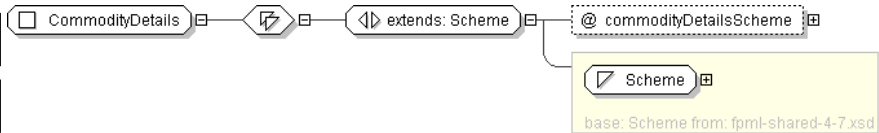
Complex Type: CommodityDetails

Super-types:	<a href="#">Scheme</a> < <b>CommodityDetails</b> (by extension)
Sub-types:	None
Name	CommodityDetails
Used by (from the same schema document)	Model Group <a href="#">CommodityReferencePriceFramework.model</a>
Abstract	no

XML Instance Representation

```
<...
commodityDetailsScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityDetails">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="commodityDetailsScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type: **ConstituentWeight**

Super-types:	None
Sub-types:	None
Name	ConstituentWeight
Used by (from the same schema document)	Complex Type <a href="#">BasketConstituent</a>
Abstract	no
Documentation	A type describing the weight of each of the underlyer constituent within the basket, either in absolute or relative terms.

XML Instance Representation

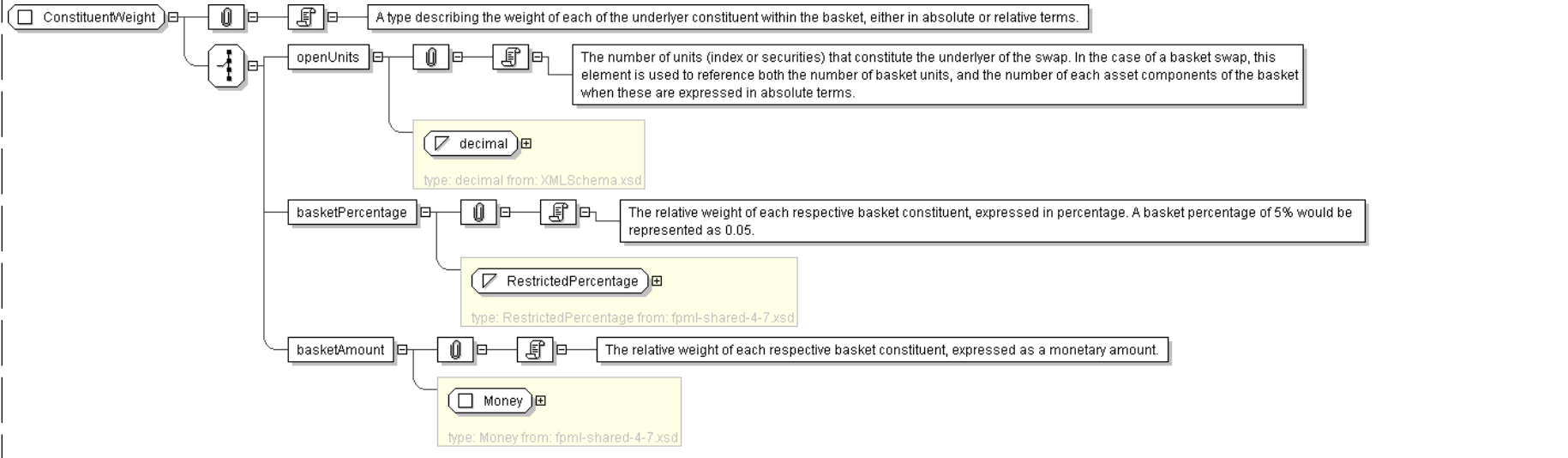
```
<...>
Start Choice [1]
<openUnits> xsd:decimal </openUnits> [1]
  'The number of units (index or securities) that constitute the underlyer of the swap. In
  the case of a basket swap, this element is used to reference both the number of basket
  units, and the number of each asset components of the basket when these are expressed
  in absolute terms.'

<basketPercentage> RestrictedPercentage </basketPercentage> [1]
  'The relative weight of each respective basket constituent, expressed in percentage. A
  basket percentage of 5% would be represented as 0.05.'

<basketAmount> Money </basketAmount> [1]
  'The relative weight of each respective basket constituent, expressed as a monetary amount.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ConstituentWeight">
  <xsd:choice>
    <xsd:element name="openUnits" type="xsd:decimal" />
    <xsd:element name="basketPercentage" type="RestrictedPercentage" />
    <xsd:element name="basketAmount" type="Money" />
  </xsd:choice>
</xsd:complexType>
```



Complex Type: **ConvertibleBond**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <a href="#">Bond</a> (by extension) < <b>ConvertibleBond</b> (by extension)
Sub-types:	None
Name	ConvertibleBond
Used by (from the same schema document)	Element <a href="#">convertibleBond</a>
Abstract	no

XML Instance Representation

<pre>&lt;... id=" xsd:ID [0..1]*"&gt;   &lt;instrumentId&gt; <a href="#">InstrumentId</a> &lt;/instrumentId&gt; [1..*]   'Identification of the underlying asset, using public and/or private identifiers.'    &lt;description&gt; xsd:string &lt;/description&gt; [0..1]   'Long name of the underlying asset.'    &lt;currency&gt; <a href="#">IdentifiedCurrency</a> &lt;/currency&gt; [0..1]   'Trading currency of the underlyer when transacted as a cash instrument.'    &lt;exchangeId&gt; <a href="#">ExchangeId</a> &lt;/exchangeId&gt; [0..1]   'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'    &lt;clearanceSystem&gt; <a href="#">ClearanceSystem</a> &lt;/clearanceSystem&gt; [0..1]   'Identification of the clearance system associated with the transaction exchange.'    &lt;definition&gt; <a href="#">ProductReference</a> &lt;/definition&gt; [0..1]   'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'    &lt;relatedExchangeId&gt; <a href="#">ExchangeId</a> &lt;/relatedExchangeId&gt; [0..*]   'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'    &lt;optionsExchangeId&gt; <a href="#">ExchangeId</a> &lt;/optionsExchangeId&gt; [0..*]   'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'    Start <a href="#">Choice</a> [0..1]   'Specifies the issuer name of a fixed income security or convertible bond. This name can either be explicitly stated, or specified as an href into another element of the document, such as the obligor'      &lt;issuerName&gt; xsd:string &lt;/issuerName&gt; [1]     &lt;issuerPartyReference&gt; <a href="#">PartyReference</a> &lt;/issuerPartyReference&gt; [1]   End Choice   &lt;seniority&gt; <a href="#">CreditSeniority</a> &lt;/seniority&gt; [0..1]   'The repayment precedence of a debt instrument.'    &lt;couponType&gt; <a href="#">CouponType</a> &lt;/couponType&gt; [0..1]   'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'    &lt;couponRate&gt; xsd:decimal &lt;/couponRate&gt; [0..1]</pre>	
--	--

'Specifies the coupon rate (expressed in percentage) of a fixed income security or convertible bond.'

<maturity> xsd:date </maturity> [0..1]  
'The date when the principal amount of a security becomes due and payable.'

<parValue> xsd:decimal </parValue> [0..1]  
'Specifies the nominal amount of a fixed income security or convertible bond.'

<faceAmount> xsd:decimal </faceAmount> [0..1]  
'Specifies the total amount of the issue. Corresponds to the par value multiplied by the number of issued security.'

<paymentFrequency> Period </paymentFrequency> [0..1]  
'Specifies the frequency at which the bond pays, e.g. 6M.'

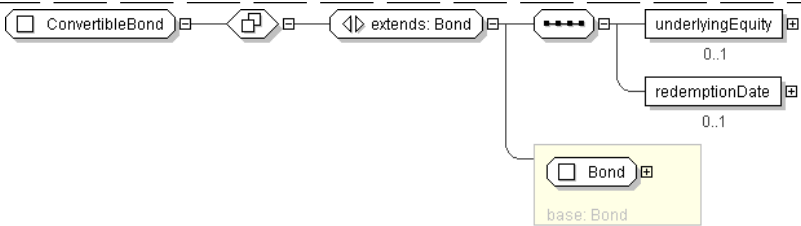
<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]  
'The day count basis for the bond.'

<underlyingEquity> EquityAsset </underlyingEquity> [0..1]  
'Specifies the equity in which the convertible bond can be converted.'

<redemptionDate> xsd:date </redemptionDate> [0..1]  
'Earlier date between the convertible bond put dates and its maturity date.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ConvertibleBond">
  <xsd:complexContent>
    <xsd:extension base="Bond" />
    <xsd:sequence>
      <xsd:element name="underlyingEquity" type="EquityAsset" minOccurs="0"/>
      <xsd:element name="redemptionDate" type="xsd:date" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

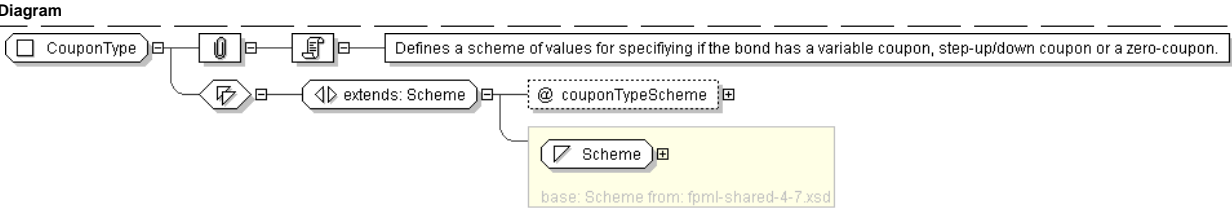
Complex Type: CouponType

Super-types:	<a href="#">Scheme</a> < CouponType (by extension)
Sub-types:	None

Name	CouponType
Used by (from the same schema document)	Model Group <a href="#">BondContent.model</a>
Abstract	no
Documentation	Defines a scheme of values for specifying if the bond has a variable coupon, step-up/down coupon or a zero-coupon.

XML Instance Representation

```
<...  
couponTypeScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```



Schema Component Representation

```
<xsd:complexType name="CouponType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="couponTypeScheme" type=" xsd:anyURI " default="http://www.fpml.org/  
        coding-scheme/coupon-type"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **Deposit**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>Deposit</b> (by extension)
Sub-types:	None

Name	Deposit
Used by (from the same schema document)	Element <a href="#">deposit</a>
Abstract	no

XML Instance Representation

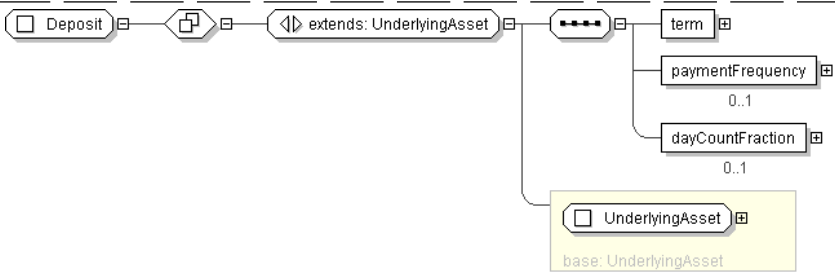
```
<...  
id=" xsd:ID [0..1]">  
  <instrumentId> InstrumentId </instrumentId> [1..*]  
  'Identification of the underlying asset, using public and/or private identifiers.'  
  
  <description> xsd:string </description> [0..1]  
  'Long name of the underlying asset.'  
  
  <currency> IdentifiedCurrency </currency> [0..1]  
  'Trading currency of the underlyer when transacted as a cash instrument.'  
  
  <exchangeId> ExchangeId </exchangeId> [0..1]  
  'Identification of the exchange on which this asset is transacted for the purposes  
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning  
  as defined in the ISDA 2002 Equity Derivatives Definitions.'  
  
  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]  
  'Identification of the clearance system associated with the transaction exchange.'  
  
  <definition> ProductReference </definition> [0..1]  
  'An optional reference to a full FpML product that defines the simple product in  
  greater detail. In case of inconsistency between the terms of the simple product and those  
  of the detailed definition, the values in the simple product override those in the  
  detailed definition.'  
  
  <term> Period </term> [1]  
  'Specifies the term of the deposit, e.g. 5Y.'
```

```
<paymentFrequency> Period </paymentFrequency> [0..1]
'Specifies the frequency at which the deposit pays, e.g. 6M.'
```

```
<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
'The day count basis for the deposit.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Deposit">
  <xsd:complexContent>
    <xsd:extension base="UnderlyingAsset" >
      <xsd:sequence>
        <xsd:element name="term" type="Period" />
        <xsd:element name="paymentFrequency" type="Period" minOccurs="0"/>
        <xsd:element name="dayCountFraction" type="DayCountFraction" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: DividendPayout

Super-types:	None
Sub-types:	None
Name	DividendPayout
Used by (from the same schema document)	Complex Type <a href="#">BasketConstituent</a> , Complex Type <a href="#">SingleUnderlyer</a>
Abstract	no
Documentation	A type describing the dividend payout ratio associated with an equity underlyer. In certain cases the actual ratio is not known on trade inception, and only general conditions are then specified.

XML Instance Representation

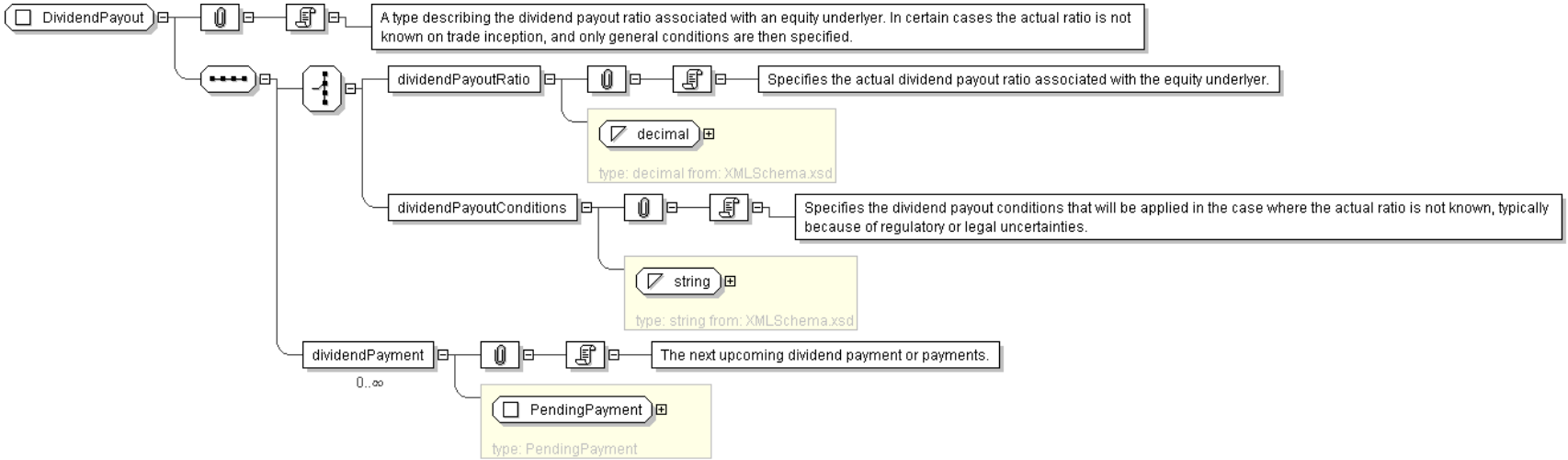
```
<...>
Start Choice [1]
  <dividendPayoutRatio> xsd:decimal </dividendPayoutRatio> [1]
  'Specifies the actual dividend payout ratio associated with the equity underlyer.'
```

```
  <dividendPayoutConditions> xsd:string </dividendPayoutConditions> [1]
  'Specifies the dividend payout conditions that will be applied in the case where the
  actual ratio is not known, typically because of regulatory or legal uncertainties.'
```

```
End Choice
  <dividendPayment> PendingPayment </dividendPayment> [0..*]
  'The next upcoming dividend payment or payments.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DividendPayout">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="dividendPayoutRatio" type="xsd:decimal" />
      <xsd:element name="dividendPayoutConditions" type="xsd:string" />
    </xsd:choice>
    <xsd:element name="dividendPayment" type="PendingPayment" minOccurs="0"
      maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **EquityAsset**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <b>EquityAsset</b> (by extension)
Sub-types:	None

Name	EquityAsset
Used by (from the same schema document)	Complex Type <a href="#">ConvertibleBond</a> , Element <a href="#">equity</a>
Abstract	no
Documentation	An exchange traded equity asset.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
  as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
```

'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]

'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'

<relatedExchangeId> ExchangeId </relatedExchangeId> [0..\*]

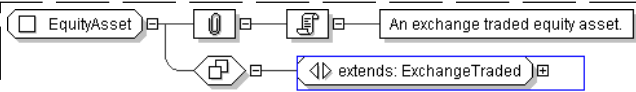
'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> ExchangeId </optionsExchangeId> [0..\*]

'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityAsset">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTraded" />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ExchangeTraded

Super-types:

[Asset](#) < [IdentifiedAsset](#) (by extension) < [UnderlyingAsset](#) (by extension) < **ExchangeTraded** (by extension)

Sub-types:

- [Bond](#) (by extension)
  - [ConvertibleBond](#) (by extension)
- [EquityAsset](#) (by extension)
- [ExchangeTradedCalculatedPrice](#) (by extension)
  - [ExchangeTradedFund](#) (by extension)
  - [Index](#) (by extension)
- [ExchangeTradedContract](#) (by extension)
- [Future](#) (by extension)

Name	ExchangeTraded
Abstract	yes
Documentation	An abstract base class for all exchange traded financial products.

XML Instance Representation

<...  
id=" xsd:ID [0..1]">  
 <instrumentId> InstrumentId </instrumentId> [1..\*]  
 'Identification of the underlying asset, using public and/or private identifiers.'  
  
 <description> xsd:string </description> [0..1]  
 'Long name of the underlying asset.'  
  
 <currency> IdentifiedCurrency </currency> [0..1]  
 'Trading currency of the underlyer when transacted as a cash instrument.'

```
<exchangeId> ExchangeId </exchangeId> [0..1]

'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'ClearanceSystem </clearanceSystem> [0..1]

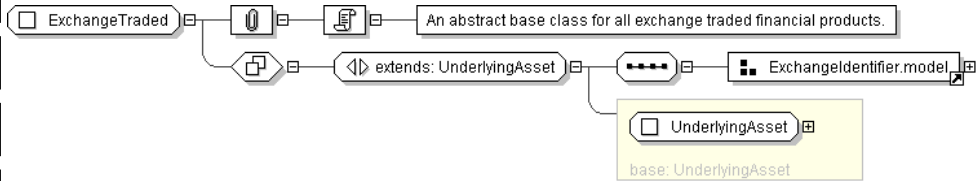
'Identification of the clearance system associated with the transaction exchange.'ProductReference </definition> [0..1]

'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'ExchangeId </relatedExchangeId> [0..*]

'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'ExchangeId </optionsExchangeId> [0..*]

'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
different than the one for the option. The options Exchange is referenced on share options
when Merger Elections are selected as Options Exchange Adjustment.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExchangeTraded" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="UnderlyingAsset" >
      <xsd:sequence>
        <xsd:group ref="ExchangeIdentifier.model" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: ExchangeTradedCalculatedPrice

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <b>ExchangeTradedCalculatedPrice</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">ExchangeTradedFund</a> (by extension)</li><li><a href="#">Index</a> (by extension)</li></ul>

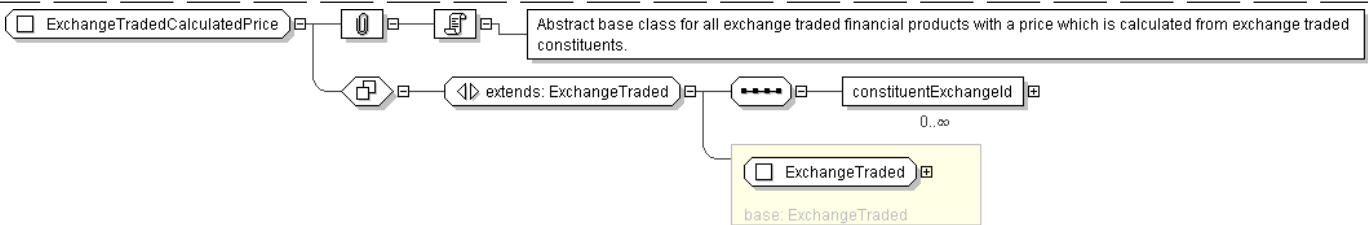
Name	ExchangeTradedCalculatedPrice
Abstract	yes
Documentation	Abstract base class for all exchange traded financial products with a price which is calculated from exchange traded constituents.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <instrumentId> InstrumentId </instrumentId> [1..*]
```

'Identification of the underlying asset, using public and/or private identifiers.'
<description> <u>xsd:string</u> </description> [0..1]
'Long name of the underlying asset.'
<currency> <u>IdentifiedCurrency</u> </currency> [0..1]
'Trading currency of the underlyer when transacted as a cash instrument.'
<exchangeId> <u>ExchangeId</u> </exchangeId> [0..1]
'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'
<clearanceSystem> <u>ClearanceSystem</u> </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'
<definition> <u>ProductReference</u> </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'
<relatedExchangeId> <u>ExchangeId</u> </relatedExchangeId> [0..*]
'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'
<optionsExchangeId> <u>ExchangeId</u> </optionsExchangeId> [0..*]
'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'
<constituentExchangeId> <u>ExchangeId</u> </constituentExchangeId> [0..*]
'Identification of all the exchanges where constituents are traded. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ExchangeTradedCalculatedPrice" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTraded">
      <xsd:sequence>
        <xsd:element name="constituentExchangeId" type="ExchangeId"
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



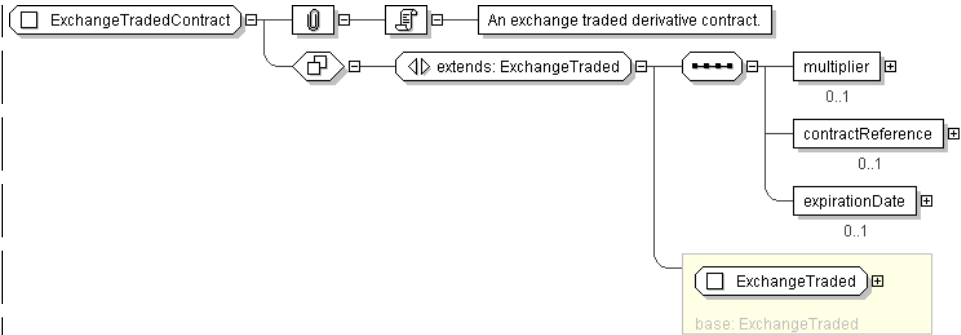
Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <b>ExchangeTradedContract</b> (by extension)
Sub-types:	None

Name	ExchangeTradedContract
Abstract	no
Documentation	An exchange traded derivative contract.

XML Instance Representation

<pre>&lt;... id=" <a href="#">xsd:ID</a> [0..1]*"&gt;   &lt;instrumentId&gt; <a href="#">InstrumentId</a> &lt;/instrumentId&gt; [1..*]   'Identification of the underlying asset, using public and/or private identifiers.'    &lt;description&gt; <a href="#">xsd:string</a> &lt;/description&gt; [0..1]   'Long name of the underlying asset.'    &lt;currency&gt; <a href="#">IdentifiedCurrency</a> &lt;/currency&gt; [0..1]   'Trading currency of the underlyer when transacted as a cash instrument.'    &lt;exchangeId&gt; <a href="#">ExchangeId</a> &lt;/exchangeId&gt; [0..1]   'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'    &lt;clearanceSystem&gt; <a href="#">ClearanceSystem</a> &lt;/clearanceSystem&gt; [0..1]   'Identification of the clearance system associated with the transaction exchange.'    &lt;definition&gt; <a href="#">ProductReference</a> &lt;/definition&gt; [0..1]   'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'    &lt;relatedExchangeId&gt; <a href="#">ExchangeId</a> &lt;/relatedExchangeId&gt; [0..*]   'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'    &lt;optionsExchangeId&gt; <a href="#">ExchangeId</a> &lt;/optionsExchangeId&gt; [0..*]   'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'    &lt;multiplier&gt; <a href="#">xsd:positiveInteger</a> &lt;/multiplier&gt; [0..1]   'Specifies the contract multiplier that can be associated with the number of units.'    &lt;contractReference&gt; <a href="#">xsd:string</a> &lt;/contractReference&gt; [0..1]   'Specifies the contract that can be referenced, besides the undelyer type.'    &lt;expirationDate&gt; <a href="#">AdjustableOrRelativeDate</a> &lt;/expirationDate&gt; [0..1]   'The date when the contract expires.'</pre>	
</...>	

Diagram



Schema Component Representation

```
<xsd:complexType name="ExchangeTradedContract">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTraded">
      <xsd:sequence>
        <xsd:element name="multiplier" type="xsd:positiveInteger" minOccurs="0"/>
        <xsd:element name="contractReference" type="xsd:string" minOccurs="0"/>
        <xsd:element name="expirationDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ExchangeTradedFund

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <a href="#">ExchangeTradedCalculatedPrice</a> (by extension) < <b>ExchangeTradedFund</b> (by extension)
Sub-types:	None

Name	ExchangeTradedFund
Used by (from the same schema document)	Element <a href="#">exchangeTradedFund</a>
Abstract	no
Documentation	An exchange traded fund whose price depends on exchange traded constituents.

XML Instance Representation

```
<...
  id="xsd:ID [0..1]*"
  <instrumentId InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
  as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
  greater detail. In case of inconsistency between the terms of the simple product and those
  of the detailed definition, the values in the simple product override those in the
```

detailed definition.'

<relatedExchangeId> [ExchangeId](#) </relatedExchangeId> [0..\*]

'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> [ExchangeId](#) </optionsExchangeId> [0..\*]

'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'

<constituentExchangeId> [ExchangeId](#) </constituentExchangeId> [0..\*]

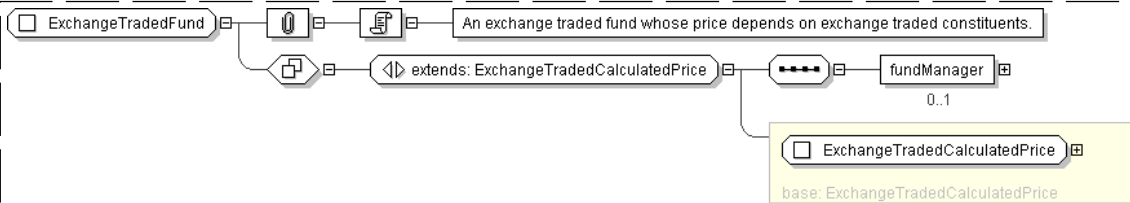
'Identification of all the exchanges where constituents are traded. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<fundManager> [xsd:string](#) </fundManager> [0..1]

'Specifies the fund manager that is in charge of the fund.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ExchangeTradedFund">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTradedCalculatedPrice">
      <xsd:sequence>
        <xsd:element name="fundManager" type="xsd:string" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: FacilityType

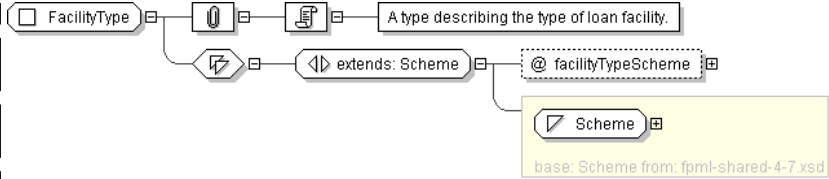
Super-types:	<a href="#">Scheme</a> < <b>FacilityType</b> (by extension)
Sub-types:	None

Name	FacilityType
Used by (from the same schema document)	Complex Type <a href="#">Loan</a>
Abstract	no
Documentation	A type describing the type of loan facility.

XML Instance Representation

```
<...
  facilityTypeScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FacilityType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="facilityTypeScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/facility-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type: Future

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <b>Future</b> (by extension)
Sub-types:	None
Name	Future
Used by (from the same schema document)	Element <a href="#">future</a>
Abstract	no
Documentation	An exchange traded future contract.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

<relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
  'A short form unique identifier for a related exchange. If the element is not present then
the exchange shall be the primary exchange on which listed futures and options on
the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
in the ISDA 2002 Equity Derivatives Definitions.'

<optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
  'A short form unique identifier for an exchange on which the reference option contract
is listed. This is to address the case where the reference exchange for the future is
```

different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'

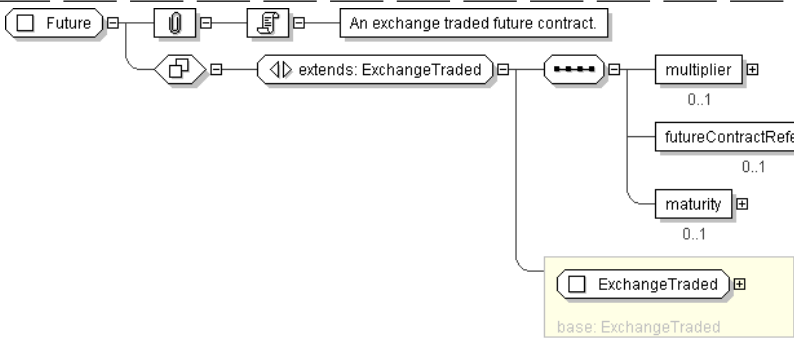
<multiplier> *xsd:positiveInteger* </multiplier> [0..1]  
'Specifies the contract multiplier that can be associated with the number of units.'

<futureContractReference> *xsd:string* </futureContractReference> [0..1]  
'Specifies the future contract that can be referenced, besides the equity or index reference defined as part of the UnderlyerAsset type.'

<maturity> *xsd:date* </maturity> [0..1]  
'The date when the future contract expires.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Future">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTraded" />
    <xsd:sequence>
      <xsd:element name="multiplier" type="xsd:positiveInteger" minOccurs="0"/>
      <xsd:element name="futureContractReference" type="xsd:string" minOccurs="0"/>
      <xsd:element name="maturity" type="xsd:date" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

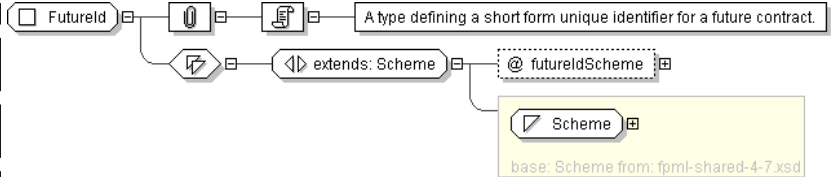
Complex Type: FutureId

Super-types:	<a href="#">Scheme</a> < FutureId (by extension)
Sub-types:	None
Name	FutureId
Used by (from the same schema document)	Complex Type <a href="#">Index</a>
Abstract	no
Documentation	A type defining a short form unique identifier for a future contract.

XML Instance Representation

```
<...
  futureIdScheme=" xsd:anyURI [0..1]">
    Scheme
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FutureId">
  <xsd:simpleContent>
    <xsd:extension base=" Schema " >
      <xsd:attribute name="futureIdScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **FxConversion**

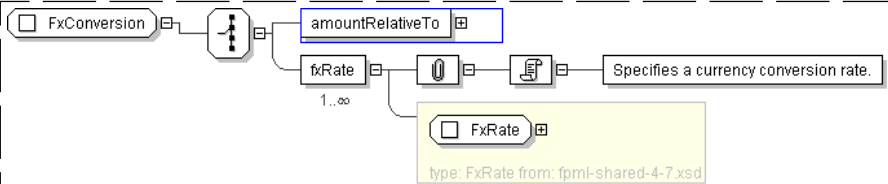
Super-types:	None
Sub-types:	None

Name	FxConversion
Used by (from the same schema document)	Model Group <a href="#">EquityPrice.model</a>
Abstract	no

XML Instance Representation

```
<...>
Start Choice [1]
  <amountRelativeTo> AmountReference </amountRelativeTo> [1]
  <fxRate> FxRate </fxRate> [1..*]
  'Specifies a currency conversion rate.'
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxConversion">
  <xsd:choice>
    <xsd:element name="amountRelativeTo" type=" AmountReference " />
    <xsd:element name="fxRate" type=" FxRate " maxOccurs="unbounded" />
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: **FxRateAsset**

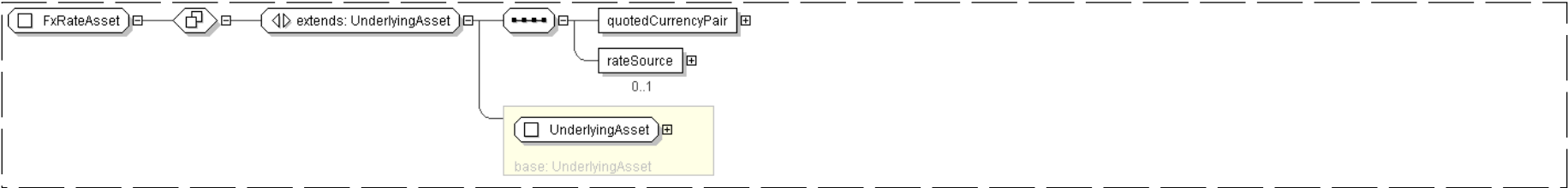
Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>FxRateAsset</b> (by extension)
Sub-types:	None

Name	FxRateAsset
Used by (from the same schema document)	Element <a href="#">fxRate</a>
Abstract	no

XML Instance Representation

<... id=" xsd:ID [0..1]"> <instrumentId> <a href="#">InstrumentId</a> </instrumentId> [1..*] <i>'Identification of the underlying asset, using public and/or private identifiers.'</i>  <description> xsd:string </description> [0..1] <i>'Long name of the underlying asset.'</i>  <currency> <a href="#">IdentifiedCurrency</a> </currency> [0..1] <i>'Trading currency of the underlyer when transacted as a cash instrument.'</i>  <exchangeId> <a href="#">ExchangeId</a> </exchangeId> [0..1] <i>'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'</i>  <clearanceSystem> <a href="#">ClearanceSystem</a> </clearanceSystem> [0..1] <i>'Identification of the clearance system associated with the transaction exchange.'</i>  <definition> <a href="#">ProductReference</a> </definition> [0..1] <i>'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'</i>  <quotedCurrencyPair> <a href="#">QuotedCurrencyPair</a> </quotedCurrencyPair> [1] <i>'Defines the two currencies for an FX trade and the quotation relationship between the two currencies.'</i>  <rateSource> <a href="#">FxSpotRateSource</a> </rateSource> [0..1] <i>'Defines the source of the FX rate.'</i>  </...>	
---	--

Diagram



Schema Component Representation

<pre>&lt;xsd:complexType name="FxRateAsset"&gt;   &lt;xsd:complexContent&gt;     &lt;xsd:extension base=" <a href="#">UnderlyingAsset</a> "&gt;       &lt;xsd:sequence&gt;         &lt;xsd:element name="quotedCurrencyPair" type=" <a href="#">QuotedCurrencyPair</a> "/&gt;         &lt;xsd:element name="rateSource" type=" <a href="#">FxSpotRateSource</a> " minOccurs="0"/&gt;       &lt;/xsd:sequence&gt;     &lt;/xsd:extension&gt;   &lt;/xsd:complexContent&gt; &lt;/xsd:complexType&gt;</pre>
--

Super-types:	<a href="#">Asset</a> < <b>IdentifiedAsset</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">Cash</a> (by extension)</li><li>• <a href="#">Commodity</a> (by extension)</li><li>• <a href="#">UnderlyingAsset</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">Deposit</a> (by extension)</li><li>◦ <a href="#">ExchangeTraded</a> (by extension)<ul style="list-style-type: none"><li>• <a href="#">Bond</a> (by extension)<ul style="list-style-type: none"><li>• <a href="#">ConvertibleBond</a> (by extension)</li></ul></li><li>• <a href="#">EquityAsset</a> (by extension)</li><li>• <a href="#">ExchangeTradedCalculatedPrice</a> (by extension)<ul style="list-style-type: none"><li>• <a href="#">ExchangeTradedFund</a> (by extension)</li><li>• <a href="#">Index</a> (by extension)</li></ul></li><li>• <a href="#">ExchangeTradedContract</a> (by extension)</li><li>• <a href="#">Future</a> (by extension)</li></ul></li><li>◦ <a href="#">FxRateAsset</a> (by extension)</li><li>◦ <a href="#">Loan</a> (by extension)</li><li>◦ <a href="#">Mortgage</a> (by extension)</li><li>◦ <a href="#">MutualFund</a> (by extension)</li><li>◦ <a href="#">RateIndex</a> (by extension)</li><li>◦ <a href="#">SimpleCreditDefaultSwap</a> (by extension)</li><li>◦ <a href="#">SimpleFra</a> (by extension)</li><li>◦ <a href="#">SimpleRSwap</a> (by extension)</li></ul></li></ul>

Name	IdentifiedAsset
Abstract	yes
Documentation	A generic type describing an identified asset.

XML Instance Representation

```
<...  
  id="  xsd:ID [0..1]*"  
  <instrumentId> InstrumentId </instrumentId> [1..*]  
  'Identification of the underlying asset, using public and/or private identifiers.'  
  
  <description> xsd:string </description> [0..1]  
  'Long name of the underlying asset.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IdentifiedAsset" abstract="true">  
  <xsd:complexContent>  
    <xsd:extension base=" Asset " >  
      <xsd:sequence>  
        <xsd:element name="instrumentId" type=" InstrumentId " maxOccurs="unbounded"/>  
        <xsd:element name="description" type=" xsd:string " minOccurs="0"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```



Complex Type: **Index**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <a href="#">ExchangeTraded</a> (by extension) < <a href="#">ExchangeTradedCalculatedPrice</a> (by extension) < <b>Index</b> (by extension)
Sub-types:	None
Name	Index
Used by (from the same schema document)	Element <a href="#">index</a>
Abstract	no
Documentation	A published index whose price depends on exchange traded constituents.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]">
    <instrumentId> InstrumentId </instrumentId> [1..*]
    'Identification of the underlying asset, using public and/or private identifiers.'

    <description> xsd:string </description> [0..1]
    'Long name of the underlying asset.'

    <currency> IdentifiedCurrency </currency> [0..1]
    'Trading currency of the underlyer when transacted as a cash instrument.'

    <exchangeId> ExchangeId </exchangeId> [0..1]
    'Identification of the exchange on which this asset is transacted for the purposes
    of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
    as defined in the ISDA 2002 Equity Derivatives Definitions.'

    <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
    'Identification of the clearance system associated with the transaction exchange.'

    <definition> ProductReference </definition> [0..1]
    'An optional reference to a full FpML product that defines the simple product in
    greater detail. In case of inconsistency between the terms of the simple product and those
    of the detailed definition, the values in the simple product override those in the
    detailed definition.'

    <relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
    'A short form unique identifier for a related exchange. If the element is not present then
    the exchange shall be the primary exchange on which listed futures and options on
    the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined
    in the ISDA 2002 Equity Derivatives Definitions.'

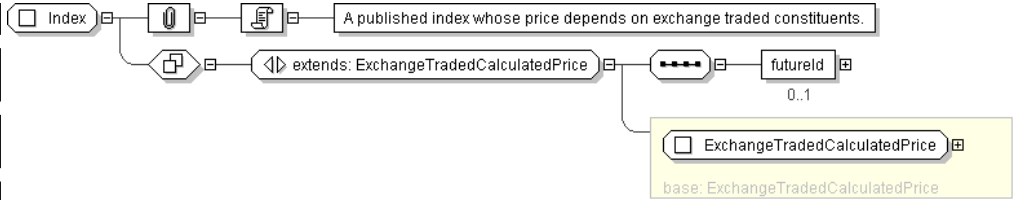
    <optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
    'A short form unique identifier for an exchange on which the reference option contract
    is listed. This is to address the case where the reference exchange for the future is
    different than the one for the option. The options Exchange is referenced on share options
    when Merger Elections are selected as Options Exchange Adjustment.'

    <constituentExchangeId> ExchangeId </constituentExchangeId> [0..*]
    'Identification of all the exchanges where constituents are traded. The term \"Exchange\"
    is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

    <futureId> FutureId </futureId> [0..1]
    'A short form unique identifier for the reference future contract in the case of an
    index underlyer.'

  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Index">
  <xsd:complexContent>
    <xsd:extension base="ExchangeTradedCalculatedPrice">
      <xsd:sequence>
        <xsd:element name="futureId" type="FutureId" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **Lien**

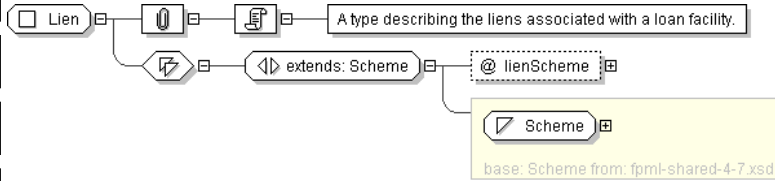
Super-types:	<a href="#">Scheme</a> < <b>Lien</b> (by extension)
Sub-types:	None

Name	Lien
Used by (from the same schema document)	Complex Type <a href="#">Loan</a>
Abstract	no
Documentation	A type describing the liens associated with a loan facility.

XML Instance Representation

```
<...
  lienScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Lien">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="lienScheme" type="xsd:anyURI" default="http://www.fpml.org/coding-
        scheme/designated-priority"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **Loan**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>Loan</b> (by extension)
Sub-types:	None
Name	Loan
Used by (from the same schema document)	Element <a href="#">loan</a>
Abstract	no
Documentation	A type describing a loan underlying asset.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]*"
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
  as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
  greater detail. In case of inconsistency between the terms of the simple product and those
  of the detailed definition, the values in the simple product override those in the
  detailed definition.'

  Start Choice [0..*]
  'Specifies the borrower. There can be more than one borrower. It is meant to be used in
  the event that there is no Bloomberg Id or the Secured List isn\'t applicable.'

    <borrower> LegalEntity </borrower> [1]
    <borrowerReference> LegalEntityReference </borrowerReference> [1]
  End Choice

  <lien> Lien </lien> [0..1]
  'Specifies the seniority level of the lien.'

  <facilityType> FacilityType </facilityType> [0..1]
  'The type of loan facility (letter of credit, revolving, ...).'

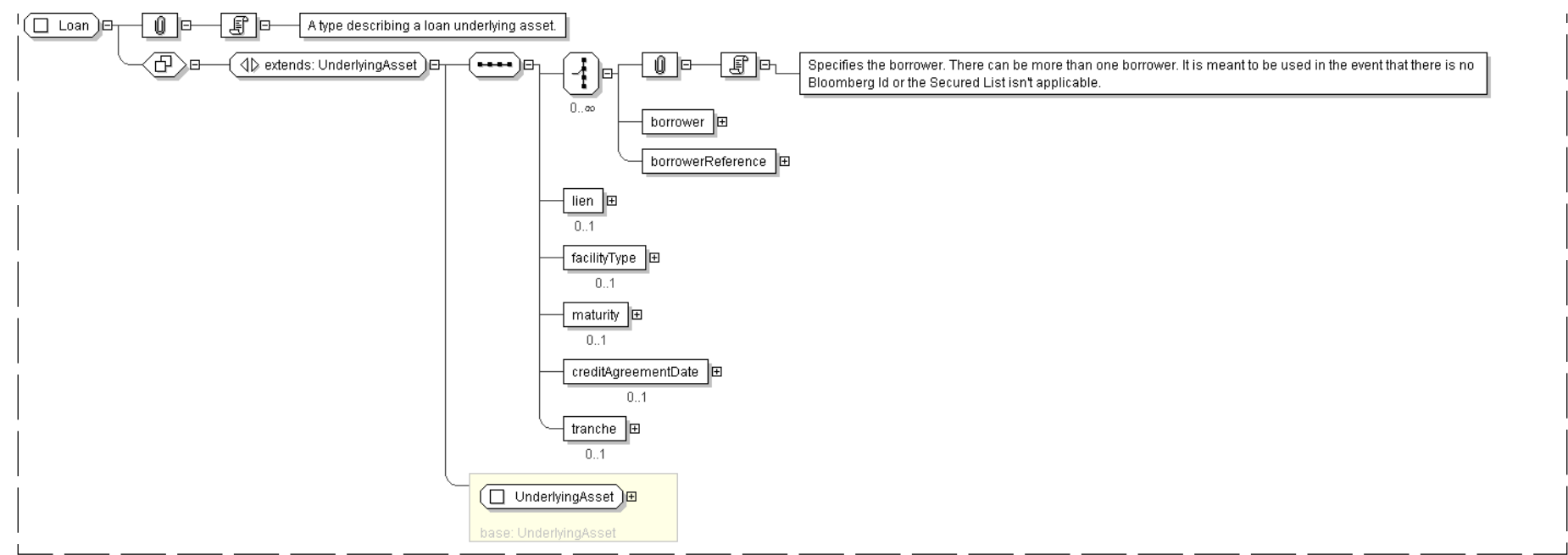
  <maturity> xsd:date </maturity> [0..1]
  'The date when the principal amount of the loan becomes due and payable.'

  <creditAgreementDate> xsd:date </creditAgreementDate> [0..1]
  'The credit agreement date is the closing date (the date where the agreement has been
  signed) for the loans in the credit agreement. Funding of the facilities occurs on
  (or sometimes a little after) the Credit Agreement date. This underlyer attribute is used
  to help identify which of the company\'s outstanding loans are being referenced by knowing
  to which credit agreement it belongs. ISDA Standards Terms Supplement term: Date of
  Original Credit Agreement.'

  <tranche> UnderlyingAssetTranche </tranche> [0..1]
  'The loan tranche that is subject to the derivative transaction. It will typically
  be referenced as the Bloomberg tranche number. ISDA Standards Terms Supplement term:
  Bloomberg Tranche Number.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Loan">
  <xsd:complexContent>
    <xsd:extension base="UnderlyingAsset">
      <xsd:sequence>
        <xsd:choice minOccurs="0" maxOccurs="unbounded">
          <xsd:element name="borrower" type="LegalEntity"/>
          <xsd:element name="borrowerReference" type="LegalEntityReference"/>
        </xsd:choice>
        <xsd:element name="lien" type="Lien" minOccurs="0"/>
        <xsd:element name="facilityType" type="FacilityType" minOccurs="0"/>
        <xsd:element name="maturity" type="xsd:date" minOccurs="0"/>
        <xsd:element name="creditAgreementDate" type="xsd:date" minOccurs="0"/>
        <xsd:element name="tranche" type="UnderlyingAssetTranche" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: Mortgage

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>Mortgage</b> (by extension)
Sub-types:	None
Name	Mortgage
Used by (from the same schema document)	Element <a href="#">mortgage</a>
Abstract	no
Documentation	A type describing a mortgage asset.

XML Instance Representation

```
<...
  id="xsd:ID [0..1]*"
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'
```

<description> [xsd:string](#) </description> [0..1]

'Long name of the underlying asset.'

<currency> [IdentifiedCurrency](#) </currency> [0..1]

'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> [ExchangeId](#) </exchangeId> [0..1]

'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> [ClearanceSystem](#) </clearanceSystem> [0..1]

'Identification of the clearance system associated with the transaction exchange.'

<definition> [ProductReference](#) </definition> [0..1]

'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'

Start [Choice](#) [0..1]

'Applicable to the case of default swaps on MBS terms. For specifying the insurer name, when applicable (when the element is not present, it signifies that the insurer is Not Applicable)'

<insurer> [LegalEntity](#) </insurer> [1]

<insurerReference> [LegalEntityReference](#) </insurerReference> [1]

End Choice

Start [Choice](#) [0..1]

'Specifies the issuer name of a fixed income security or convertible bond. This name can either be explicitly stated, or specified as an href into another element of the document, such as the obligor'

<issuerName> [xsd:string](#) </issuerName> [1]

<issuerPartyReference> [PartyReference](#) </issuerPartyReference> [1]

End Choice

<seniority> [CreditSeniority](#) </seniority> [0..1]

'The repayment precedence of a debt instrument.'

<couponType> [CouponType](#) </couponType> [0..1]

'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'

<couponRate> [xsd:decimal](#) </couponRate> [0..1]

'Specifies the coupon rate (expressed in percentage) of a fixed income security or convertible bond.'

<maturity> [xsd:date](#) </maturity> [0..1]

'The date when the principal amount of a security becomes due and payable.'

<paymentFrequency> [Period](#) </paymentFrequency> [0..1]

'Specifies the frequency at which the bond pays, e.g. 6M.'

<dayCountFraction> [DayCountFraction](#) </dayCountFraction> [0..1]

'The day count basis for the bond.'

<originalPrincipalAmount> [xsd:decimal](#) </originalPrincipalAmount> [0..1]

'The initial issued amount of the mortgage obligation.'

<pool> [AssetPool](#) </pool> [0..1]

'The morgage pool that is underneath the mortgage obligation.'

<sector> [MortgageSector](#) </sector> [0..1]

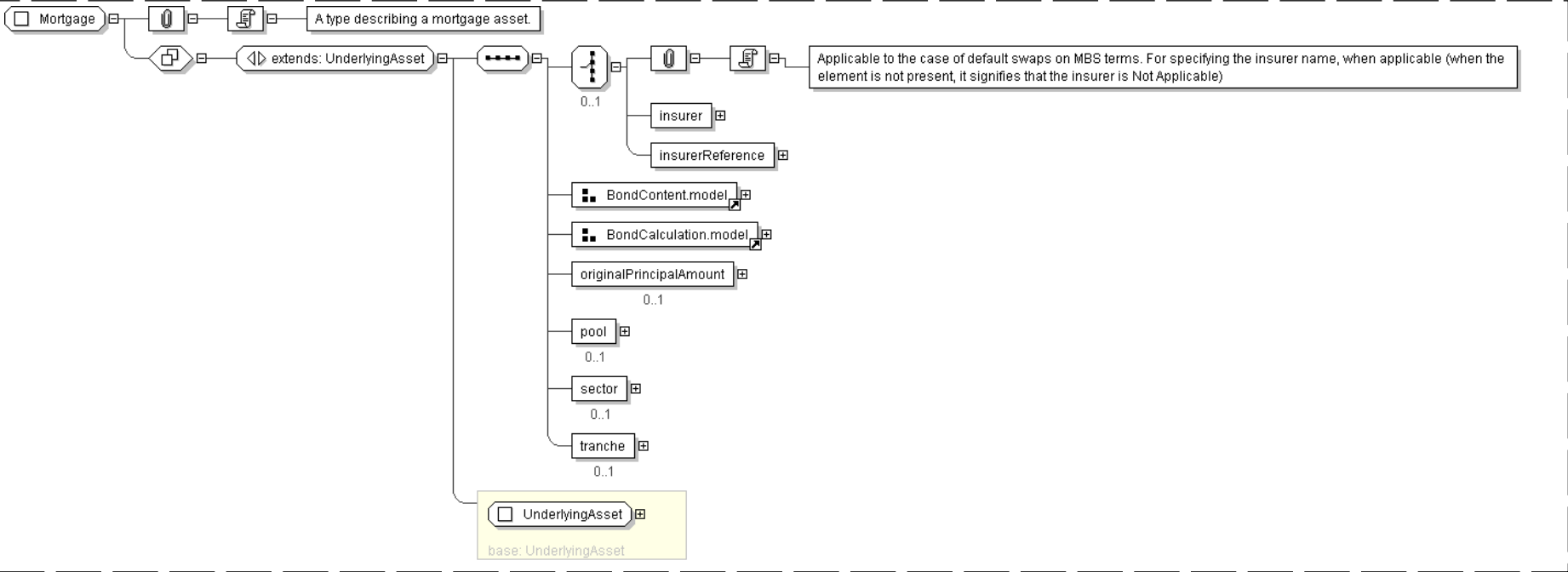
'The sector classification of the mortgage obligation.'

<tranche> [xsd:token](#) </tranche> [0..1]

'The mortgage obligation tranche that is subject to the derivative transaction.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Mortgage">
  <xsd:complexContent>
    <xsd:extension base="UnderlyingAsset">
      <xsd:sequence>
        <xsd:choice minOccurs="0">
          <xsd:element name="insurer" type="LegalEntity"/>
          <xsd:element name="insurerReference" type="LegalEntityReference"/>
        </xsd:choice>
        <xsd:group ref="BondContent.model"/>
        <xsd:group ref="BondCalculation.model"/>
        <xsd:element name="originalPrincipalAmount" type="xsd:decimal" minOccurs="0"/>
        <xsd:element name="pool" type="AssetPool" minOccurs="0"/>
        <xsd:element name="sector" type="MortgageSector" minOccurs="0"/>
        <xsd:element name="tranche" type="xsd:token" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: MortgageSector

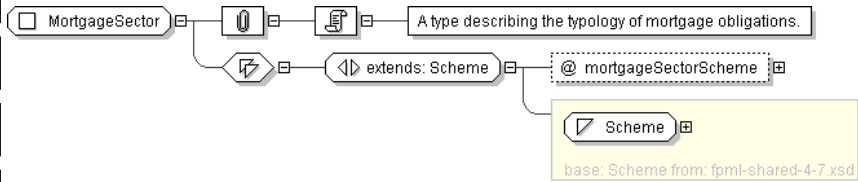
Super-types:	<a href="#">Scheme</a> < <b>MortgageSector</b> (by extension)
Sub-types:	None

Name	MortgageSector
Used by (from the same schema document)	Complex Type <a href="#">Mortgage</a>
Abstract	no
Documentation	A type describing the typology of mortgage obligations.

XML Instance Representation

```
<...  
mortgageSectorScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MortgageSector">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="mortgageSectorScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/mortgage-sector"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **MutualFund**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>MutualFund</b> (by extension)
Sub-types:	None

<b>Name</b>	MutualFund
<b>Used by (from the same schema document)</b>	Element <a href="#">mutualFund</a>
<b>Abstract</b>	no

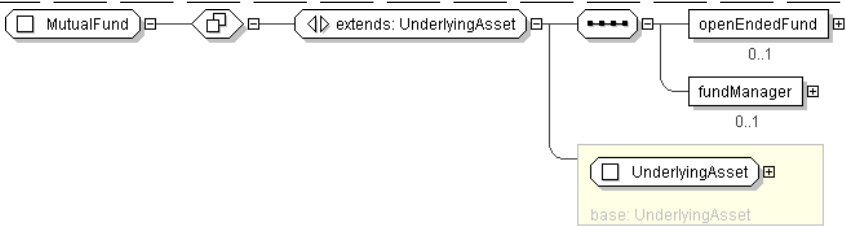
XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <instrumentId> InstrumentId </instrumentId> [1..*]  
  'Identification of the underlying asset, using public and/or private identifiers.'  
  
  <description> xsd:string </description> [0..1]  
  'Long name of the underlying asset.'  
  
  <currency> IdentifiedCurrency </currency> [0..1]  
  'Trading currency of the underlyer when transacted as a cash instrument.'  
  
  <exchangeId> ExchangeId </exchangeId> [0..1]  
  'Identification of the exchange on which this asset is transacted for the purposes  
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning  
  as defined in the ISDA 2002 Equity Derivatives Definitions.'  
  
  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]  
  'Identification of the clearance system associated with the transaction exchange.'  
  
  <definition> ProductReference </definition> [0..1]  
  'An optional reference to a full FpML product that defines the simple product in  
  greater detail. In case of inconsistency between the terms of the simple product and those  
  of the detailed definition, the values in the simple product override those in the  
  detailed definition.'  
  
  <openEndedFund> xsd:boolean </openEndedFund> [0..1]  
  'Boolean indicator to specify whether the mutual fund is an open-ended mutual fund.'
```

```
<fundManager> xsd:string </fundManager> [0..1]
'Specifies the fund manager that is in charge of the fund.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="MutualFund">
  <xsd:complexContent>
    <xsd:extension base=" UnderlyingAsset " >
      <xsd:sequence>
        <xsd:element name="openEndedFund" type=" xsd:boolean " minOccurs="0"/>
        <xsd:element name="fundManager" type=" xsd:string " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: PendingPayment

Super-types:	<a href="#">PaymentBase</a> < <b>PendingPayment</b> (by extension)
Sub-types:	None
Name	PendingPayment
Used by (from the same schema document)	Complex Type <a href="#">BasketConstituent</a> , Complex Type <a href="#">DividendPayout</a> , Complex Type <a href="#">SingleUnderlyer</a>
Abstract	no
Documentation	A structure representing a pending dividend or coupon payment.

XML Instance Representation

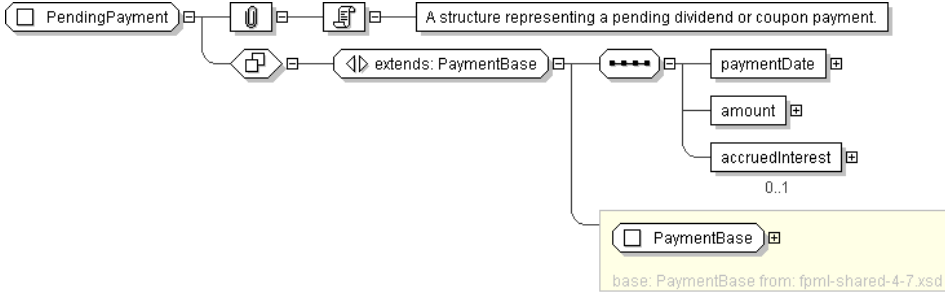
```
<...
id=" xsd:ID [0..1]">
  <paymentDate> xsd:date </paymentDate> [1]
  'The date that the dividend or coupon is due.'

  <amount> Money </amount> [1]
  'The amount of the dividend or coupon payment. Value of dividends or coupon between ex and
  pay date. Stock: if we are between ex-date and pay-date and the dividend is payable under
  the swap, then this should be the ex-div amount * # of securities. Bond: regardless of where
  we are vis-a-vis resets: (coupon % * face of bonds on swap * (bond day count fraction
  using days last coupon pay date of the bond through today).'Money </accruedInterest> [0..1]
  'Accrued interest on the dividend or coupon payment. When the TRS is structured to pay
  a dividend or coupon on reset after payable date, you may earn interest on these amounts.
  This field indicates the interest accrued on dividend/coupon from pay date to statement
  date. This will only apply to a handful of agreements where dividendss are held to the
  next reset AND you receive/pay interest on unpaid amounts.'
```

</...>

Diagram





Schema Component Representation

```
<xsd:complexType name="PendingPayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:element name="paymentDate" type="xsd:date"/>
        <xsd:element name="amount" type="Money"/>
        <xsd:element name="accruedInterest" type="Money" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: Price

Super-types:	None
Sub-types:	None

Name	Price
Used by (from the same schema document)	Complex Type <a href="#">BasketConstituent</a>
Abstract	no
Documentation	A type describing the strike price.

XML Instance Representation

```
<...>
  <commission> Commission </commission> [0..1]
  'This optional component specifies the commission to be charged for executing the
  hedge transactions.'

  Start Choice [1]
    <determinationMethod> DeterminationMethod </determinationMethod> [1]
    'Specifies the method according to which an amount or a date is determined.'

  Start Group: EquityPrice.model [0..1]
    <grossPrice> ActualPrice </grossPrice> [0..1]
    'Specifies the price of the underlyer, before commissions.'

    <netPrice> ActualPrice </netPrice> [1]
    'Specifies the price of the underlyer, net of commissions.'

    <accruedInterestPrice> xsd:decimal </accruedInterestPrice> [0..1]
    'Specifies the accrued interest that are part of the dirty price in the case of a fixed
    income security or a convertible bond. Expressed in percentage of the notional.'

    <fxConversion> FxConversion </fxConversion> [0..1]
    'Specifies the currency conversion rate that applies to an amount. This rate can either
    be defined elsewhere in the document (case of a quanto swap), or explicitly described
    through this component.'
```

End Group: [EquityPrice.model](#)

<amountRelativeTo> [AmountReference](#) </amountRelativeTo> [1]

'The href attribute value will be a pointer style reference to the element or component elsewhere in the document where the anchor amount is defined.'

<grossPrice> [ActualPrice](#) </grossPrice> [0..1]

'Specifies the price of the underlying, before commissions.'

<netPrice> [ActualPrice](#) </netPrice> [1]

'Specifies the price of the underlying, net of commissions.'

<accruedInterestPrice> [xsd:decimal](#) </accruedInterestPrice> [0..1]

'Specifies the accrued interest that are part of the dirty price in the case of a fixed income security or a convertible bond. Expressed in percentage of the notional.'

<fxConversion> [FxConversion](#) </fxConversion> [0..1]

'Specifies the currency conversion rate that applies to an amount. This rate can either be defined elsewhere in the document (case of a quanto swap), or explicitly described through this component.'

End Choice

<cleanNetPrice> [xsd:decimal](#) </cleanNetPrice> [0..1]

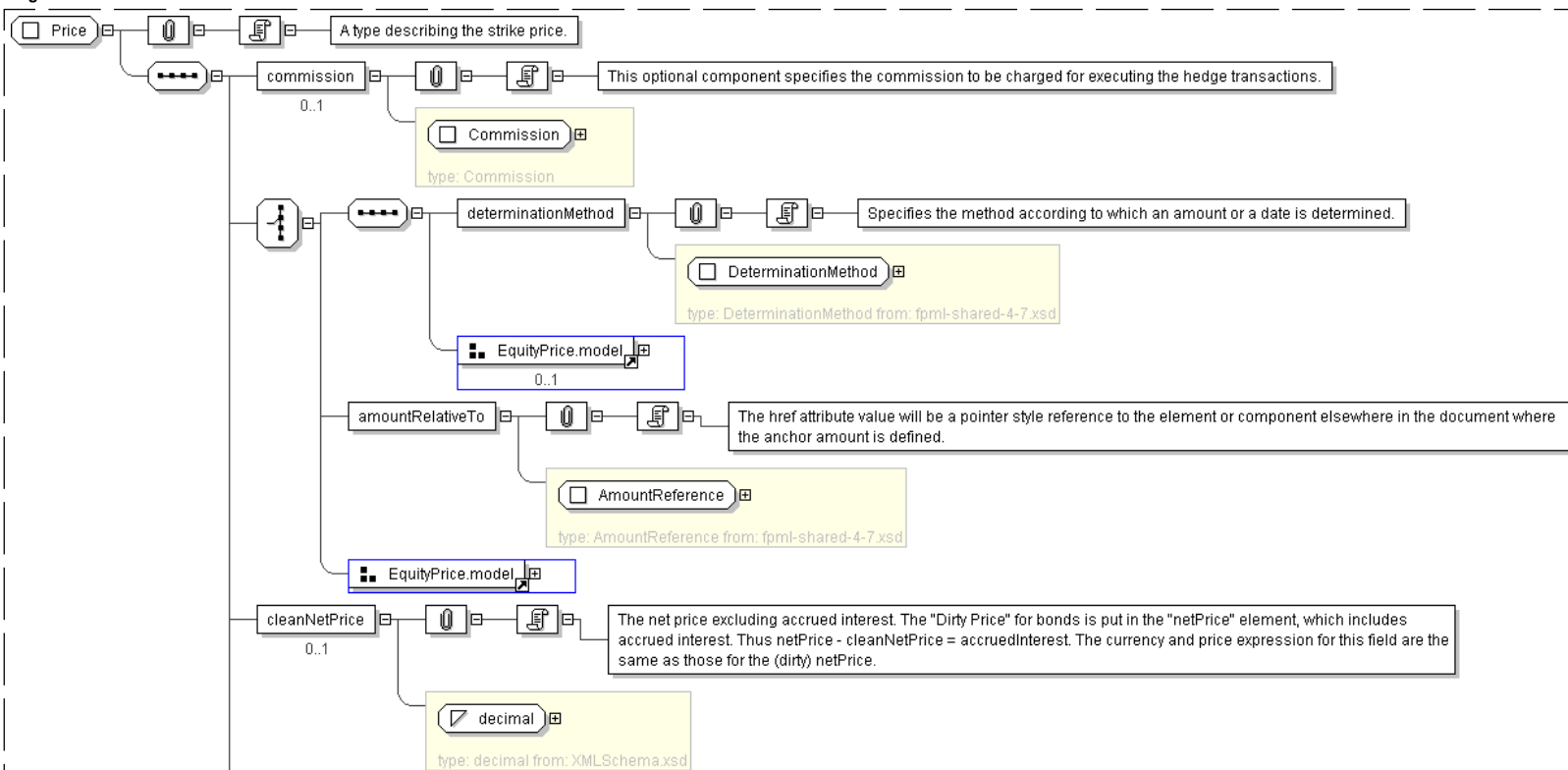
'The net price excluding accrued interest. The "Dirty Price" for bonds is put in the "netPrice" element, which includes accrued interest. Thus netPrice - cleanNetPrice = accruedInterest. The currency and price expression for this field are the same as those for the (dirty) netPrice.'

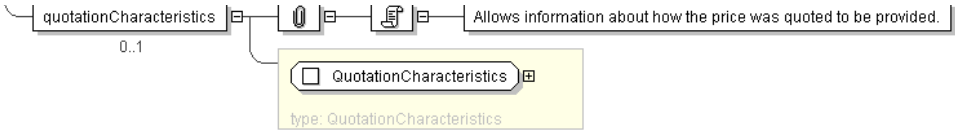
<quotationCharacteristics> [QuotationCharacteristics](#) </quotationCharacteristics> [0..1]

'Allows information about how the price was quoted to be provided.'

</...>

#### Diagram





Schema Component Representation

```
<xsd:complexType name="Price">
  <xsd:sequence>
    <xsd:element name="commission" type=" Commission " minOccurs="0"/>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="determinationMethod" type=" DeterminationMethod "/>
        <xsd:group ref=" EquityPrice.model " minOccurs="0"/>
      </xsd:sequence>
      <xsd:element name="amountRelativeTo" type=" AmountReference "/>
      <xsd:group ref=" EquityPrice.model "/>
    </xsd:choice>
    <xsd:element name="cleanNetPrice" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="quotationCharacteristics" type=" QuotationCharacteristics " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

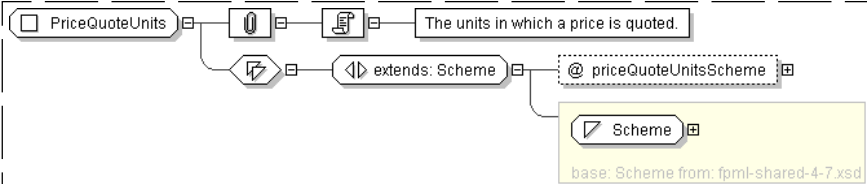
Complex Type: PriceQuoteUnits

Super-types:	<a href="#">Scheme</a> < PriceQuoteUnits (by extension)
Sub-types:	None
Name	PriceQuoteUnits
Used by (from the same schema document)	Model Group <a href="#">QuotationCharacteristics.model</a>
Abstract	no
Documentation	The units in which a price is quoted.

XML Instance Representation

```
<...
priceQuoteUnitsScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PriceQuoteUnits">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="priceQuoteUnitsScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/price-quote-units"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **QuantityUnit**

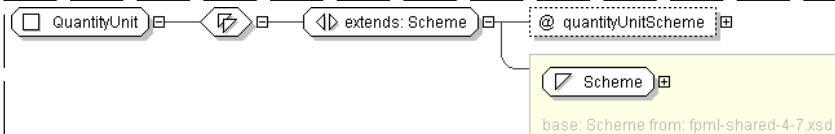
Super-types:	<a href="#">Scheme</a> < <b>QuantityUnit</b> (by extension)
Sub-types:	None

Name	QuantityUnit
Used by (from the same schema document)	Model Group <a href="#">CommodityReferencePriceFramework.model</a>
Abstract	no

### XML Instance Representation

```
<...  
quantityUnitScheme=" xsd:anyURI [0..1]">  
Scheme  
</...>
```

### Diagram



### Schema Component Representation

```
<xsd:complexType name="QuantityUnit">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="quantityUnitScheme" type="xsd:anyURI" default="http://www.fpml.
org/coding-scheme/price-quote-units"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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### Complex Type: QuotationCharacteristics

<i>Super-types:</i>	None
<i>Sub-types:</i>	None

Name	QuotationCharacteristics
Used by (from the same schema document)	Complex Type <a href="#">Price</a>
Abstract	no
Documentation	A type representing a set of characteristics that describe a quotation.

### XML Instance Representation

```
<...>
<measureType> AssetMeasureType </measureType> [0..1]
'The type of the value that is measured. This could be an NPV, a cash flow, a clean price, etc.'

<quoteUnits> PriceQuoteUnits </quoteUnits> [0..1]
'The optional units that the measure is expressed in. If not supplied, this is assumed to be a price/value in currency units.'

<side> QuotationSideEnum </side> [0..1]
'The side (bid/mid/ask) of the measure.'

<currency> Currency </currency> [0..1]
'The optional currency that the measure is expressed in. If not supplied, this is defaulted from the reportingCurrency in the valuationScenarioDefinition.'

<timing> QuoteTiming </timing> [0..1]
'When during a day the quote is for. Typically, if this element is supplied, the QuoteLocation needs also to be supplied.'
```

```
Start Group: QuoteLocation.model [0..1]
'Where the quote is from.'

Start Choice [1]
  <businessCenter> BusinessCenter </businessCenter> [1]
  'A city or other business center.'

  <exchangeId> ExchangeId </exchangeId> [1]
  'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'

End Choice
End Group: QuoteLocation.model
<informationSource> InformationSource </informationSource> [0..*]
'The information source where a published or displayed market rate will be obtained, e.
g. Telerate Page 3750.'

<time> xsd:dateTime </time> [0..1]
'When the quote was observed or derived.'

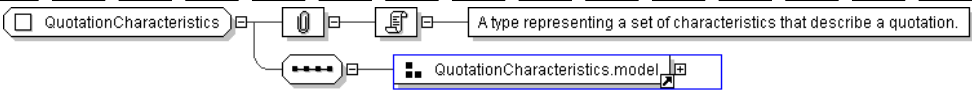
<valuationDate> xsd:date </valuationDate> [0..1]
'When the quote was computed.'

<expiryTime> xsd:dateTime </expiryTime> [0..1]
'When does the quote cease to be valid.'

<cashFlowType> CashflowType </cashFlowType> [0..1]
'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium
Fee, Settlement Fee, Brokerage Fee, etc.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotationCharacteristics">
  <xsd:sequence>
    <xsd:group ref=" QuotationCharacteristics.model " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **QuoteTiming**

Super-types:	<a href="#">Scheme</a> < <b>QuoteTiming</b> (by extension)
Sub-types:	None

Name	QuoteTiming
Used by (from the same schema document)	Model Group <a href="#">QuotationCharacteristics.model</a>
Abstract	no
Documentation	The type of the time of the quote.

XML Instance Representation

```
<...
quoteTimingScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuoteTiming">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="quoteTimingScheme" type=" xsd:anyURI " default="http://www.fpml.org/
coding-scheme/quote-timing"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **RateIndex**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>RateIndex</b> (by extension)
Sub-types:	None

Name	RateIndex
Used by (from the same schema document)	Element <a href="#">rateIndex</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*"
<instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'

<floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
<term> Period </term> [1]
  'Specifies the term of the simple swap, e.g. 5Y.'

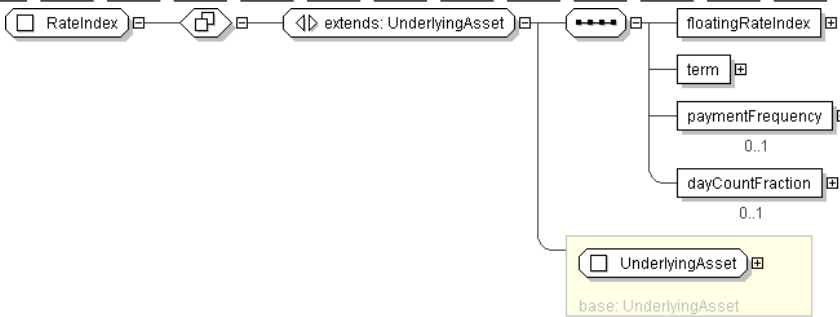
<paymentFrequency> Period </paymentFrequency> [0..1]
  'Specifies the frequency at which the index pays, e.g. 6M.'

<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
```

'The day count basis for the index.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="RateIndex">
  <xsd:complexContent>
    <xsd:extension base="UnderlyingAsset">
      <xsd:sequence>
        <xsd:element name="floatingRateIndex" type="FloatingRateIndex"/>
        <xsd:element name="term" type="Period"/>
        <xsd:element name="paymentFrequency" type="Period" minOccurs="0"/>
        <xsd:element name="dayCountFraction" type="DayCountFraction" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: SimpleCreditDefaultSwap

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>SimpleCreditDefaultSwap</b> (by extension)
Sub-types:	None

Name	SimpleCreditDefaultSwap
Used by (from the same schema document)	Element <a href="#">simpleCreditDefaultSwap</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

<description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'
```

```
<definition> ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'
```

Start Choice [1]

```
<referenceEntity> LegalEntity </referenceEntity> [1]
'The entity for which this is defined.'
```

```
<creditEntityReference> LegalEntityReference </creditEntityReference> [1]
'An XML reference a credit entity defined elsewhere in the document.'
```

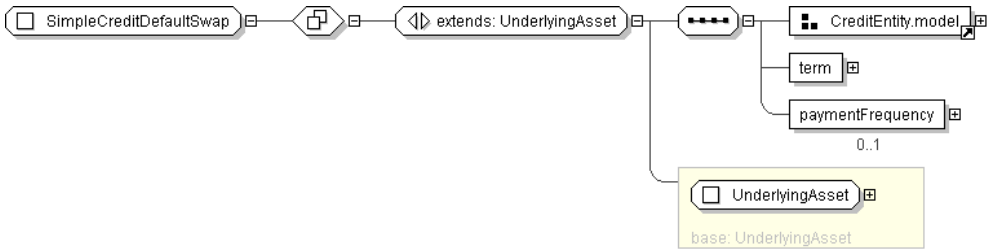
End Choice

```
<term> Period </term> [1]
'Specifies the term of the simple CD swap, e.g. 5Y.'
```

```
<paymentFrequency> Period </paymentFrequency> [0..1]
'Specifies the frequency at which the swap pays, e.g. 6M.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SimpleCreditDefaultSwap">
  <xsd:complexContent>
    <xsd:extension base="UnderlyingAsset" >
      <xsd:sequence>
        <xsd:group ref="CreditEntity.model" />
        <xsd:element name="term" type="Period" />
        <xsd:element name="paymentFrequency" type="Period" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **SimpleFra**

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>SimpleFra</b> (by extension)
Sub-types:	None

Name	SimpleFra
Used by (from the same schema document)	Element <a href="#">simpleFra</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*"
<instrumentId> InstrumentId </instrumentId> [1..*]
'Identification of the underlying asset, using public and/or private identifiers.'
```



<description> xsd:string </description> [0..1]

'Long name of the underlying asset.'

<currency> IdentifiedCurrency </currency> [0..1]

'Trading currency of the underlyer when transacted as a cash instrument.'

<exchangeId> ExchangeId </exchangeId> [0..1]

'Identification of the exchange on which this asset is transacted for the purposes of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]

'Identification of the clearance system associated with the transaction exchange.'

<definition> ProductReference </definition> [0..1]

'An optional reference to a full FpML product that defines the simple product in greater detail. In case of inconsistency between the terms of the simple product and those of the detailed definition, the values in the simple product override those in the detailed definition.'

<startTerm> Period </startTerm> [1]

'Specifies the start term of the simple fra, e.g. 3M.'

<endTerm> Period </endTerm> [1]

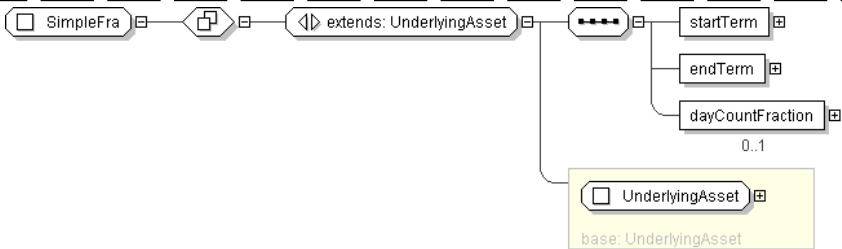
'Specifies the end term of the simple fra, e.g. 9M.'

<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]

'The day count basis for the FRA.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="SimpleFra">
  <xsd:complexContent>
    <xsd:extension base=" UnderlyingAsset " >
      <xsd:sequence>
        <xsd:element name="startTerm" type=" Period " />
        <xsd:element name="endTerm" type=" Period " />
        <xsd:element name="dayCountFraction" type=" DayCountFraction " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: SimpleIRSwap

Super-types:	<a href="#">Asset</a> < <a href="#">IdentifiedAsset</a> (by extension) < <a href="#">UnderlyingAsset</a> (by extension) < <b>SimpleIRSwap</b> (by extension)
Sub-types:	None

Name	SimpleIRSwap
------	--------------

Used by (from the same schema document)	Element <a href="#">simpleIrSwap</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
  'Identification of the exchange on which this asset is transacted for the purposes
  of calculating a contractual payoff. The term \"Exchange\" is assumed to have the meaning
  as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
  'Identification of the clearance system associated with the transaction exchange.'

  <definition> ProductReference </definition> [0..1]
  'An optional reference to a full FpML product that defines the simple product in
  greater detail. In case of inconsistency between the terms of the simple product and those
  of the detailed definition, the values in the simple product override those in the
  detailed definition.'

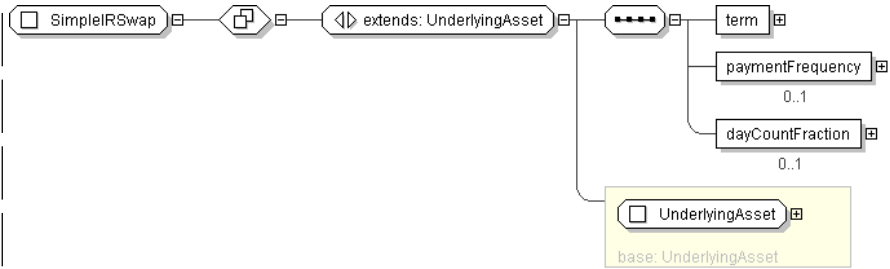
  <term> Period </term> [1]
  'Specifies the term of the simple swap, e.g. 5Y.'

  <paymentFrequency> Period </paymentFrequency> [0..1]
  'Specifies the frequency at which the swap pays, e.g. 6M.'

  <dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
  'The day count basis for the swap.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SimpleIRSwap">
  <xsd:complexContent>
    <xsd:extension base=" UnderlyingAsset ">
      <xsd:sequence>
        <xsd:element name="term" type=" Period "/>
        <xsd:element name="paymentFrequency" type=" Period " minOccurs="0"/>
        <xsd:element name="dayCountFraction" type=" DayCountFraction " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

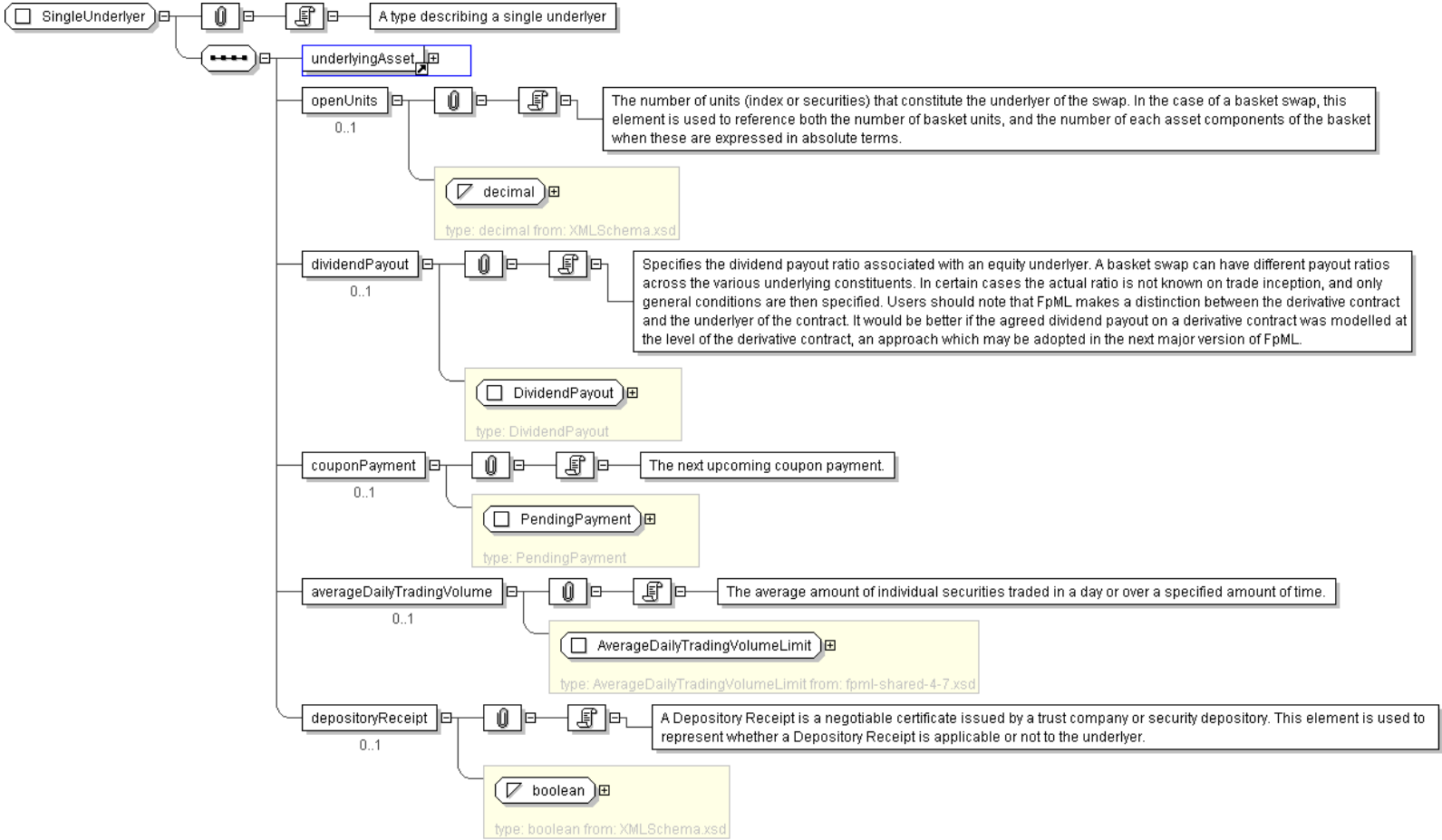
Complex Type: **SingleUnderlyer**

Super-types:	None
Sub-types:	None
Name	SingleUnderlyer
Used by (from the same schema document)	Complex Type <a href="#">Underlyer</a>
Abstract	no
Documentation	A type describing a single underlyer

XML Instance Representation

<div>&lt;...&gt; &lt;underlyingAsset&gt; ... &lt;/underlyingAsset&gt; [1] &lt;openUnits&gt; <a href="#">xsd:decimal</a> &lt;/openUnits&gt; [0..1]  'The number of units (index or securities) that constitute the underlyer of the swap. In the case of a basket swap, this element is used to reference both the number of basket units, and the number of each asset components of the basket when these are expressed in absolute terms.'  &lt;dividendPayout&gt; <a href="#">DividendPayout</a> &lt;/dividendPayout&gt; [0..1]  'Specifies the dividend payout ratio associated with an equity underlyer. A basket swap can have different payout ratios across the various underlying constituents. In certain cases the actual ratio is not known on trade inception, and only general conditions are then specified. Users should note that FpML makes a distinction between the derivative contract and the underlyer of the contract. It would be better if the agreed dividend payout on a derivative contract was modelled at the level of the derivative contract, an approach which may be adopted in the next major version of FpML.'  &lt;couponPayment&gt; <a href="#">PendingPayment</a> &lt;/couponPayment&gt; [0..1]  'The next upcoming coupon payment.'  &lt;averageDailyTradingVolume&gt; <a href="#">AverageDailyTradingVolumeLimit</a> &lt;/averageDailyTradingVolume&gt; [0..1]  'The average amount of individual securities traded in a day or over a specified amount of time.'  &lt;depositoryReceipt&gt; <a href="#">xsd:boolean</a> &lt;/depositoryReceipt&gt; [0..1]  'A Depository Receipt is a negotiable certificate issued by a trust company or security depository. This element is used to represent whether a Depository Receipt is applicable or not to the underlyer.'  &lt;/...&gt;</div>	
--	--

Diagram



Schema Component Representation

```
<xsd:complexType name="SingleUnderlyer">
  <xsd:sequence>
    <xsd:element ref="underlyingAsset" />
    <xsd:element name="openUnits" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="dividendPayout" type="DividendPayout" minOccurs="0"/>
    <xsd:element name="couponPayment" type="PendingPayment" minOccurs="0"/>
    <xsd:element name="averageDailyTradingVolume" type="AverageDailyTradingVolumeLimit" minOccurs="0"/>
    <xsd:element name="depositoryReceipt" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **TimeZone**

Super-types:	<a href="#">Scheme</a> < <b>TimeZone</b> (by extension)
Sub-types:	None

Name	TimeZone
Used by (from the same schema document)	Complex Type <a href="#">CommodityBusinessCalendarTime</a>
Abstract	no

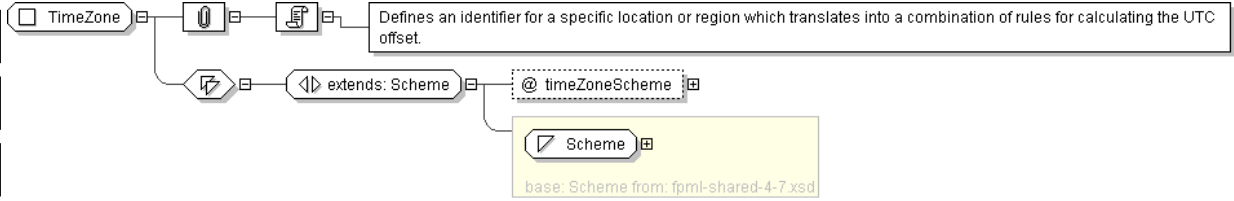
Documentation

Defines an identifier for a specific location or region which translates into a combination of rules for calculating the UTC offset.

XML Instance Representation

```
<...  
  timeZoneScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TimeZone">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="timeZoneScheme" type=" xsd:anyURI "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: Underlyer

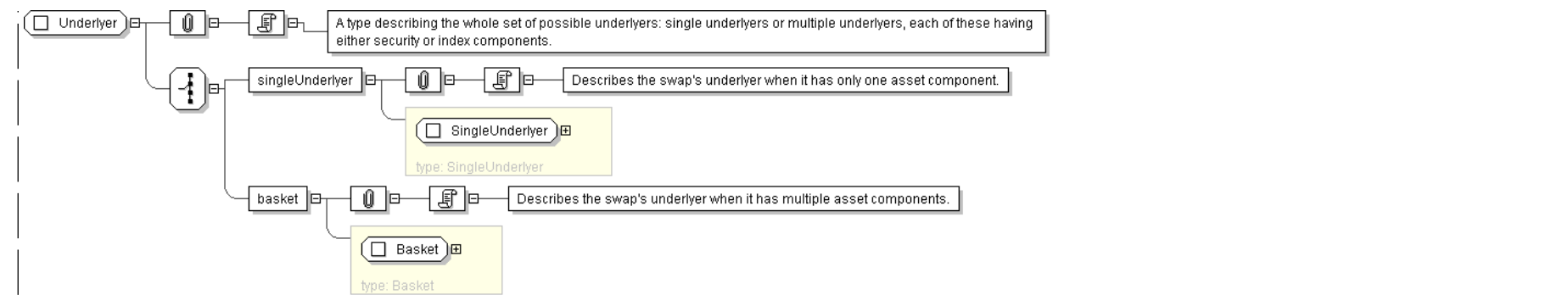
Super-types:	None
Sub-types:	None

Name	Underlyer
Abstract	no
Documentation	A type describing the whole set of possible underlyers: single underlyers or multiple underlyers, each of these having either security or index components.

XML Instance Representation

```
<...>  
  Start Choice [1]  
    <singleUnderlyer> SingleUnderlyer </singleUnderlyer> [1]  
    'Describes the swap\'s underlyer when it has only one asset component.'  
  
    <basket> Basket </basket> [1]  
    'Describes the swap\'s underlyer when it has multiple asset components.'  
  
  End Choice  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Underlyer">
  <xsd:choice>
    <xsd:element name="singleUnderlyer" type=" SingleUnderlyer " />
    <xsd:element name="basket" type=" Basket " />
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: UnderlyingAsset

Super-types:

Sub-types:

[Asset](#) < [IdentifiedAsset](#) (by extension) < **UnderlyingAsset** (by extension)

- [Deposit](#) (by extension)
- [ExchangeTraded](#) (by extension)
  - [Bond](#) (by extension)
    - [ConvertibleBond](#) (by extension)
  - [EquityAsset](#) (by extension)
  - [ExchangeTradedCalculatedPrice](#) (by extension)
    - [ExchangeTradedFund](#) (by extension)
    - [Index](#) (by extension)
  - [ExchangeTradedContract](#) (by extension)
  - [Future](#) (by extension)
- [FxRateAsset](#) (by extension)
- [Loan](#) (by extension)
- [Mortgage](#) (by extension)
- [MutualFund](#) (by extension)
- [RateIndex](#) (by extension)
- [SimpleCreditDefaultSwap](#) (by extension)
- [SimpleFra](#) (by extension)
- [SimpleIRSwap](#) (by extension)

Name	UnderlyingAsset
Abstract	yes
Documentation	Abstract base class for all underlying assets.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <currency> IdentifiedCurrency </currency> [0..1]
  'Trading currency of the underlyer when transacted as a cash instrument.'

  <exchangeId> ExchangeId </exchangeId> [0..1]
```

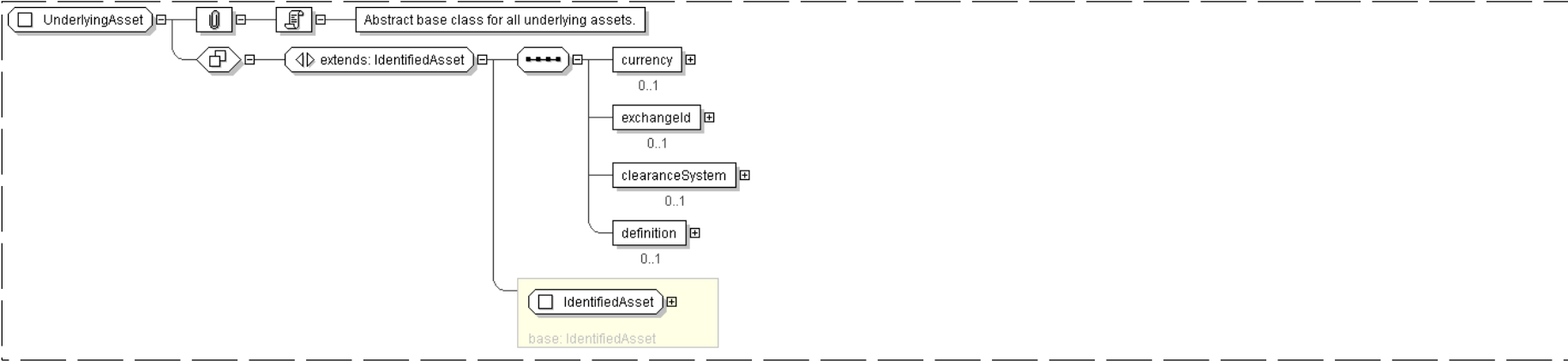
```
'Identification of the exchange on which this asset is transacted for the purposes
of calculating a contractual payoff. The term \Exchange\" is assumed to have the meaning
as defined in the ISDA 2002 Equity Derivatives Definitions.'
```

```
<clearanceSystem> ClearanceSystem </clearanceSystem> [0..1]
'Identification of the clearance system associated with the transaction exchange.'
```

```
<definition> ProductReference </definition> [0..1]
'An optional reference to a full FpML product that defines the simple product in
greater detail. In case of inconsistency between the terms of the simple product and those
of the detailed definition, the values in the simple product override those in the
detailed definition.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="UnderlyingAsset" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" IdentifiedAsset ">
      <xsd:sequence>
        <xsd:element name="currency" type=" IdentifiedCurrency " minOccurs="0"/>
        <xsd:element name="exchangeId" type=" ExchangeId " minOccurs="0"/>
        <xsd:element name="clearanceSystem" type=" ClearanceSystem " minOccurs="0"/>
        <xsd:element name="definition" type=" ProductReference " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **UnderlyingAssetTranche**

Super-types:	<a href="#">Scheme</a> < <b>UnderlyingAssetTranche</b> (by extension)
Sub-types:	None

Name	UnderlyingAssetTranche
Used by (from the same schema document)	Complex Type <a href="#">Loan</a>
Abstract	no

XML Instance Representation

```
<...
loanTrancheScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="UnderlyingAssetTranche">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="loanTrancheScheme" type="xsd:anyURI" default="http://www.fpml.org/
        coding-scheme/underlying-asset-tranche"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Model Group: **BasketIdentifier.model**

Name	BasketIdentifier.model
Used by (from the same schema document)	Complex Type <a href="#">Basket</a>
Documentation	A group that specifies a name and an identifier for a given basket.

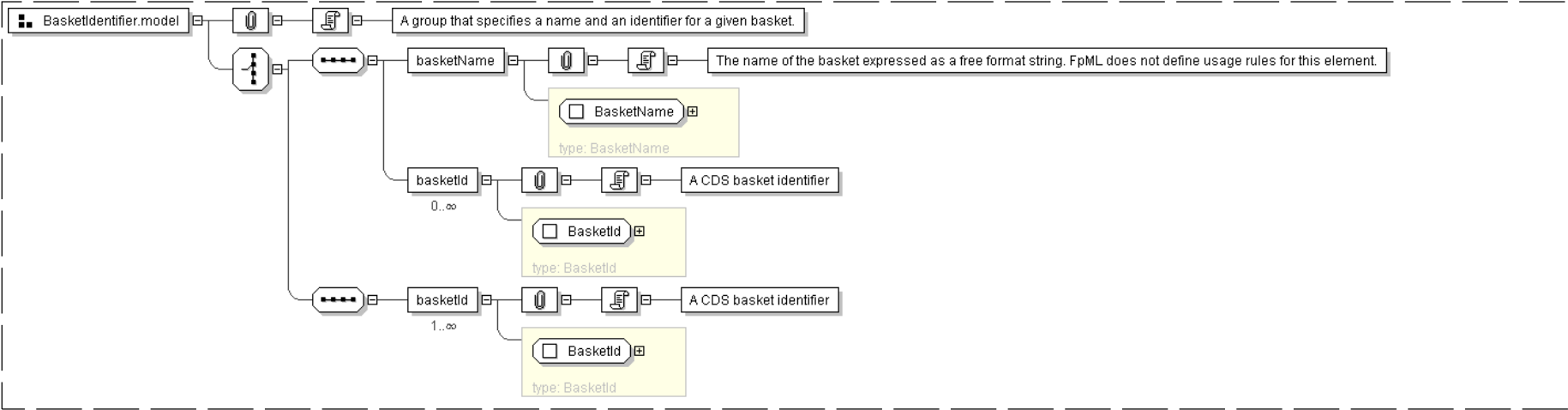
XML Instance Representation

```
Start Choice [1]
  <basketName> BasketName </basketName> [1]
  'The name of the basket expressed as a free format string. FpML does not define usage rules
  for this element.'

  <basketId> BasketId </basketId> [0..*]
  'A CDS basket identifier'

  <basketId> BasketId </basketId> [1..*]
  'A CDS basket identifier'
End Choice
```

Diagram



Schema Component Representation



```
<xsd:group name="BasketIdentifier.model">
  <xsd:choice>
    <xsd:sequence>
      <xsd:element name="basketName" type=" BasketName " />
      <xsd:element name="basketId" type=" BasketId " minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:sequence>
      <xsd:element name="basketId" type=" BasketId " maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **BondCalculation.model**

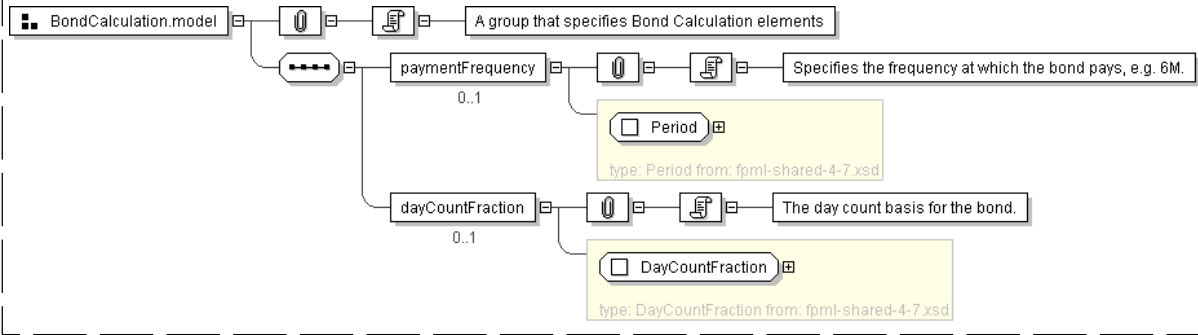
Name	BondCalculation.model
Used by (from the same schema document)	Complex Type <a href="#">Bond</a> , Complex Type <a href="#">Mortgage</a>
Documentation	A group that specifies Bond Calculation elements

XML Instance Representation

```
<paymentFrequency> Period </paymentFrequency> [0..1]
'Specifies the frequency at which the bond pays, e.g. 6M.'
```

```
<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
'The day count basis for the bond.'
```

Diagram



Schema Component Representation

```
<xsd:group name="BondCalculation.model">
  <xsd:sequence>
    <xsd:element name="paymentFrequency" type=" Period " minOccurs="0"/>
    <xsd:element name="dayCountFraction" type=" DayCountFraction " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **BondChoice.model**

Name	BondChoice.model
Documentation	A model group which provides choices between all bond underlyers.

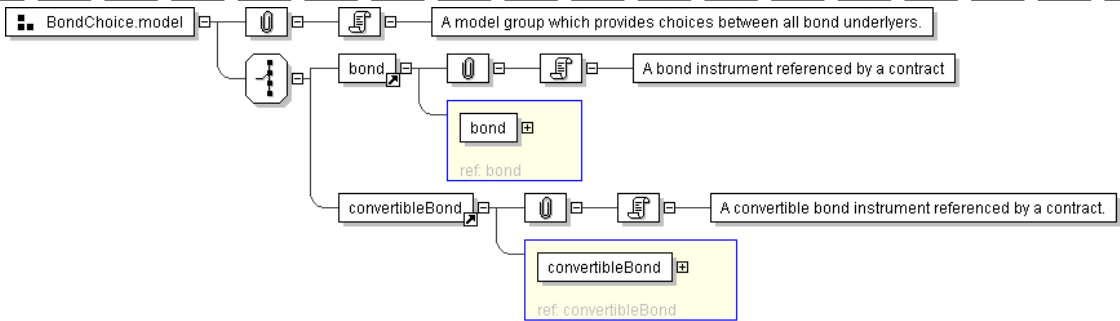
XML Instance Representation

```
Start Choice [1]
<bond> ... </bond> [1]
'A bond instrument referenced by a contract'
```

```
<convertibleBond> ... </convertibleBond> [1]
'A convertible bond instrument referenced by a contract.'
```

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="BondChoice.model">
  <xsd:choice>
    <xsd:element ref=" bond " />
    <xsd:element ref=" convertibleBond " />
  </xsd:choice>
</xsd:group>
```

Model Group: BondContent.model

Name	BondContent.model
Used by (from the same schema document)	Complex Type Bond , Complex Type Mortgage
Documentation	A group that specifies Bond Content elements

XML Instance Representation

```
Start Choice [0..1]
'Specifies the issuer name of a fixed income security or convertible bond. This name can
either be explicitly stated, or specified as an href into another element of the document,
such as the obligor'

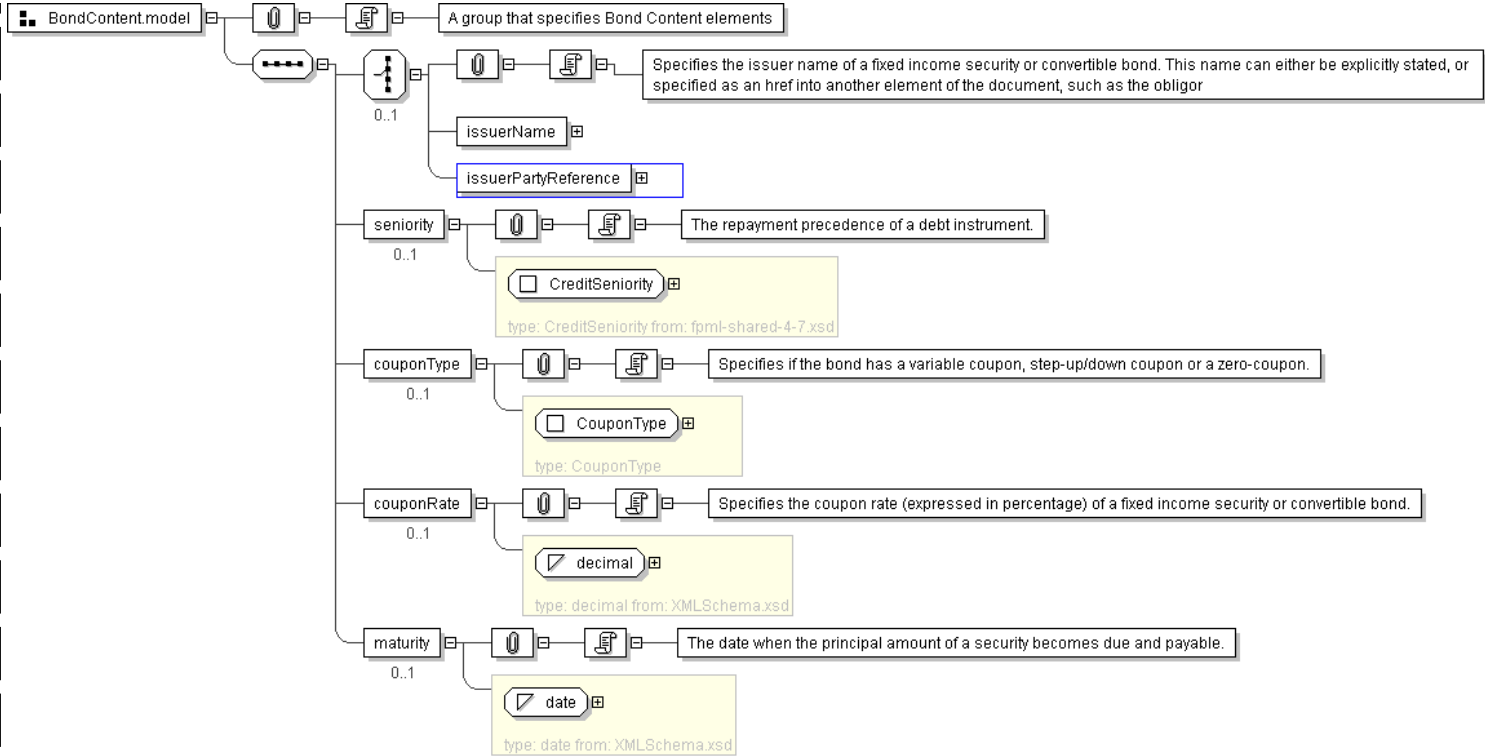
<issuerName> xsd:string </issuerName> [1]
<issuerPartyReference> PartyReference </issuerPartyReference> [1]
End Choice
<seniority> CreditSeniority </seniority> [0..1]
'The repayment precedence of a debt instrument.'
```

```
<couponType> CouponType </couponType> [0..1]
'Specifies if the bond has a variable coupon, step-up/down coupon or a zero-coupon.'
```

```
<couponRate> xsd:decimal </couponRate> [0..1]
'Specifies the coupon rate (expressed in percentage) of a fixed income security or
convertible bond.'
```

```
<maturity> xsd:date </maturity> [0..1]
'The date when the principal amount of a security becomes due and payable.'
```

Diagram



Schema Component Representation

```
<xsd:group name="BondContent.model">
  <xsd:sequence>
    <xsd:choice minOccurs="0">
      <xsd:element name="issuerName" type="xsd:string"/>
      <xsd:element name="issuerPartyReference" type="PartyReference"/>
    </xsd:choice>
    <xsd:element name="seniority" type="CreditSeniority" minOccurs="0"/>
    <xsd:element name="couponType" type="CouponType" minOccurs="0"/>
    <xsd:element name="couponRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="maturity" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **CommodityProduct.model**

Name	CommodityProduct.model
Used by (from the same schema document)	Complex Type <a href="#">Commodity</a>
Documentation	A group used to specify details of a commodity underlyer.

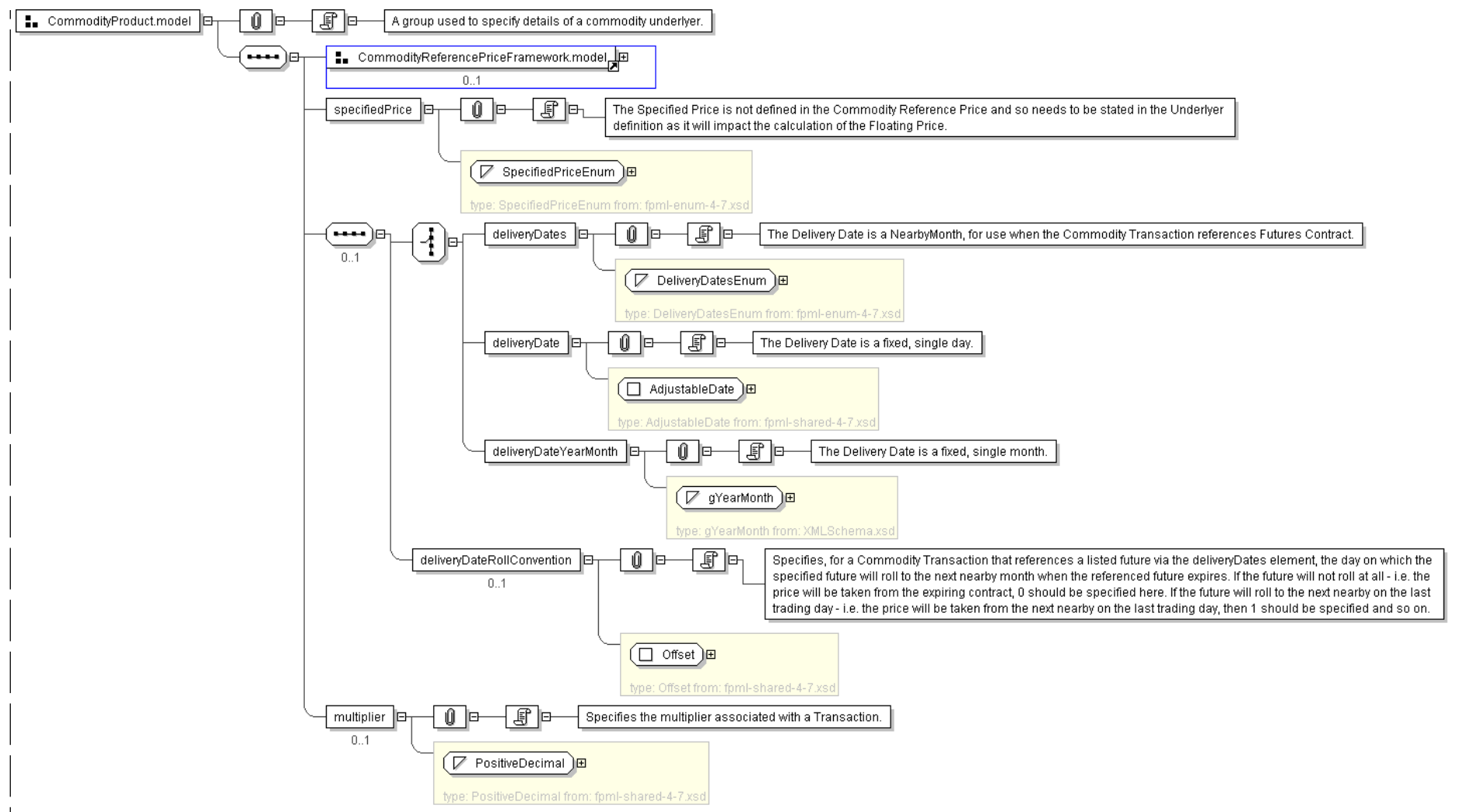
XML Instance Representation

```
Start Group: CommodityReferencePriceFramework.model [0..1]
<commodityBase> CommodityBase </commodityBase> [1]
  'A coding scheme value to identify the base type of the commodity being traded. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. For example, \'Oil\'.\'

<commodityDetails> CommodityDetails </commodityDetails> [1]
  'A coding scheme value to identify the commodity being traded more specifically.'
```

Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. For example, \"Brent\".'
<unit> <a href="#">QuantityUnit</a> </unit> [1]
'A coding scheme value to identify the unit in which the undelyer is denominated. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions.'
<currency> <a href="#">Currency</a> </currency> [1]
'The currency in which the Commodity Reference Price is published.'
Start <a href="#">Choice</a> [1]
<exchangeId> <a href="#">ExchangeId</a> </exchangeId> [1]
'For those commodities being traded with reference to the price of a listed future, the exchange where that future is listed should be specified here.'
<publication> <a href="#">InformationSource</a> </publication> [1]
'For those commodities being traded with reference to a price distributed by a publication, that publication should be specified here.'
End Choice
End Group: <a href="#">CommodityReferencePriceFramework.model</a>
<specifiedPrice> <a href="#">SpecifiedPriceEnum</a> </specifiedPrice> [1]
'The Specified Price is not defined in the Commodity Reference Price and so needs to be stated in the Underlyer definition as it will impact the calculation of the Floating Price.'
Start <a href="#">Sequence</a> [0..1]
Start <a href="#">Choice</a> [1]
<deliveryDates> <a href="#">DeliveryDatesEnum</a> </deliveryDates> [1]
'The Delivery Date is a NearbyMonth, for use when the Commodity Transaction references Futures Contract.'
<deliveryDate> <a href="#">AdjustableDate</a> </deliveryDate> [1]
'The Delivery Date is a fixed, single day.'
<deliveryDateYearMonth> <a href="#">xsd:gYearMonth</a> </deliveryDateYearMonth> [1]
'The Delivery Date is a fixed, single month.'
End Choice
<deliveryDateRollConvention> <a href="#">Offset</a> </deliveryDateRollConvention> [0..1]
'Specifies, for a Commodity Transaction that references a listed future via the deliveryDates element, the day on which the specified future will roll to the next nearby month when the referenced future expires. If the future will not roll at all - i.e. the price will be taken from the expiring contract, 0 should be specified here. If the future will roll to the next nearby on the last trading day - i.e. the price will be taken from the next nearby on the last trading day, then 1 should be specified and so on.'
End Sequence
<multiplier> <a href="#">PositiveDecimal</a> </multiplier> [0..1]
'Specifies the multiplier associated with a Transaction.'

Diagram



#### Schema Component Representation

```

<xsd:group name="CommodityProduct.model">
  <xsd:sequence>
    <xsd:group ref="CommodityReferencePriceFramework.model" minOccurs="0"/>
    <xsd:element name="specifiedPrice" type="SpecifiedPriceEnum"/>
    <xsd:sequence minOccurs="0">
      <xsd:choice>
        <xsd:element name="deliveryDates" type="DeliveryDatesEnum"/>
        <xsd:element name="deliveryDate" type="AdjustableDate"/>
        <xsd:element name="deliveryDateYearMonth" type="xsd:gYearMonth"/>
      </xsd:choice>
      <xsd:element name="deliveryDateRollConvention" type="Offset" minOccurs="0"/>
    </xsd:sequence>
    <xsd:element name="multiplier" type="PositiveDecimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>

```

[top](#)

Name	CommodityReferencePriceFramework.model
Used by (from the same schema document)	Model Group <a href="#">CommodityProduct.model</a>
Documentation	A group used to specify the commodity underlying in the event that no ISDA Commodity Reference Price exists.

XML Instance Representation

```
<commodityBase> CommodityBase </commodityBase> [1]
'A coding scheme value to identify the base type of the commodity being traded. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. For example, \'Oil\'.\'

<commodityDetails> CommodityDetails </commodityDetails> [1]
'A coding scheme value to identify the commodity being traded more specifically. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions. For example, \'Brent\'.\'

<unit> QuantityUnit </unit> [1]
'A coding scheme value to identify the unit in which the undelryer is denominated. Where possible, this should follow the naming convention used in the 2005 ISDA Commodity Definitions.

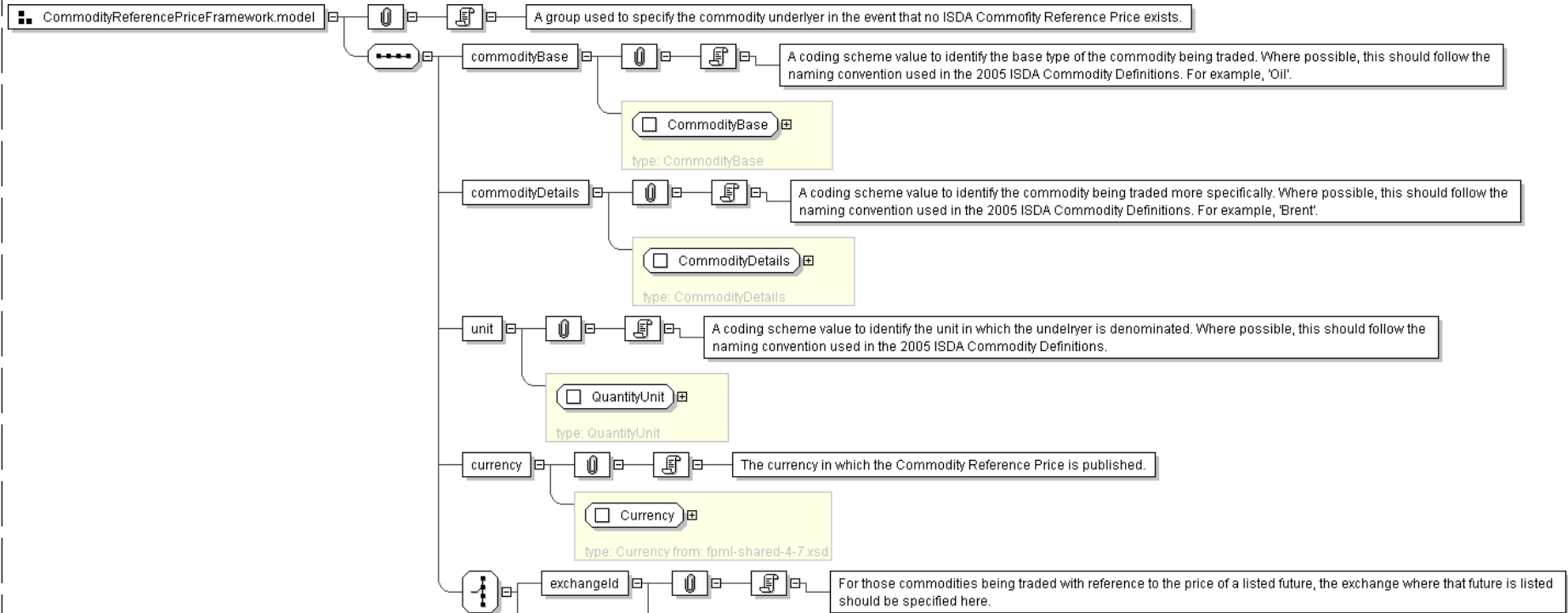
<currency> Currency </currency> [1]
'The currency in which the Commodity Reference Price is published.

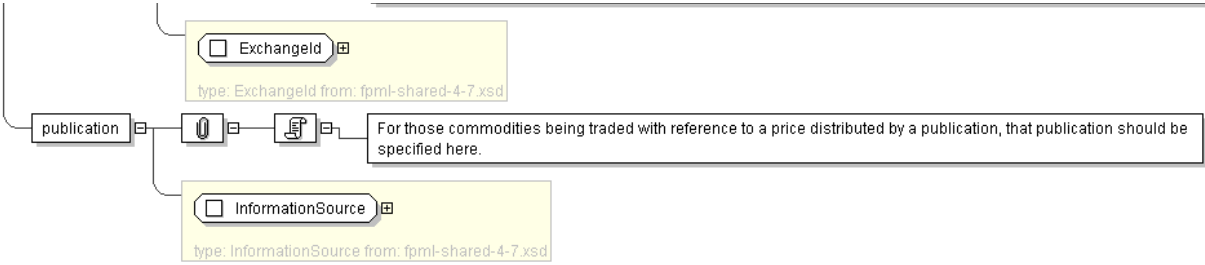
Start Choice [1]
  <exchangeId> ExchangeId </exchangeId> [1]
  'For those commodities being traded with reference to the price of a listed future, the exchange where that future is listed should be specified here.'

  <publication> InformationSource </publication> [1]
  'For those commodities being traded with reference to a price distributed by a publication, that publication should be specified here.'

End Choice
```

Diagram





Schema Component Representation

```
<xsd:group name="CommodityReferencePriceFramework.model">
  <xsd:sequence>
    <xsd:element name="commodityBase" type=" CommodityBase " />
    <xsd:element name="commodityDetails" type=" CommodityDetails " />
    <xsd:element name="unit" type=" QuantityUnit " />
    <xsd:element name="currency" type=" Currency " />
    <xsd:choice>
      <xsd:element name="exchangeId" type=" ExchangeId " />
      <xsd:element name="publication" type=" InformationSource " />
    </xsd:choice>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: CreditEntity.model

Name	CreditEntity.model
Used by (from the same schema document)	Complex Type <a href="#">SimpleCreditDefaultSwap</a>
Documentation	An item which has credit characteristics that can be modeled, e.g. a firm, index, or region.

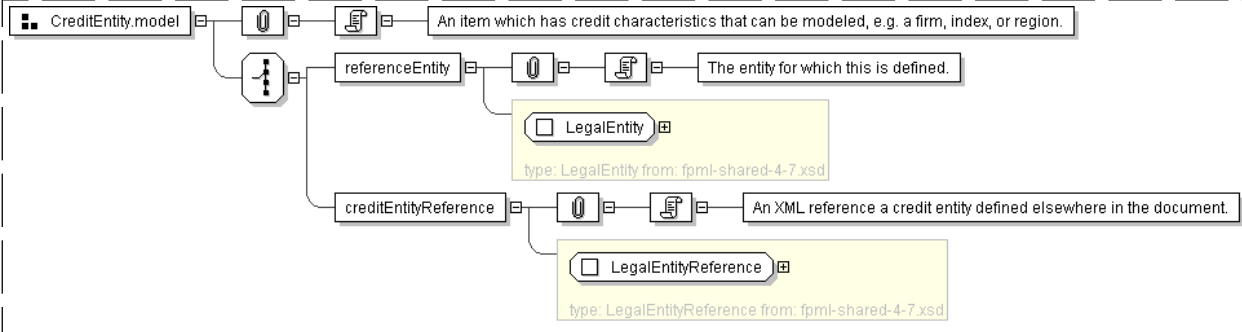
XML Instance Representation

```
Start Choice [1]
<referenceEntity> LegalEntity </referenceEntity> [1]
  'The entity for which this is defined.'
```

```
<creditEntityReference> LegalEntityReference </creditEntityReference> [1]
  'An XML reference a credit entity defined elsewhere in the document.'
```

```
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="CreditEntity.model">
  <xsd:choice>
    <xsd:element name="referenceEntity" type=" LegalEntity " />
    <xsd:element name="creditEntityReference" type=" LegalEntityReference " />
  </xsd:choice>
</xsd:group>
```

Model Group: **EquityPrice.model**

Name	EquityPrice.model
Used by (from the same schema document)	Complex Type <a href="#">Price</a> , Complex Type <a href="#">Price</a>

XML Instance Representation

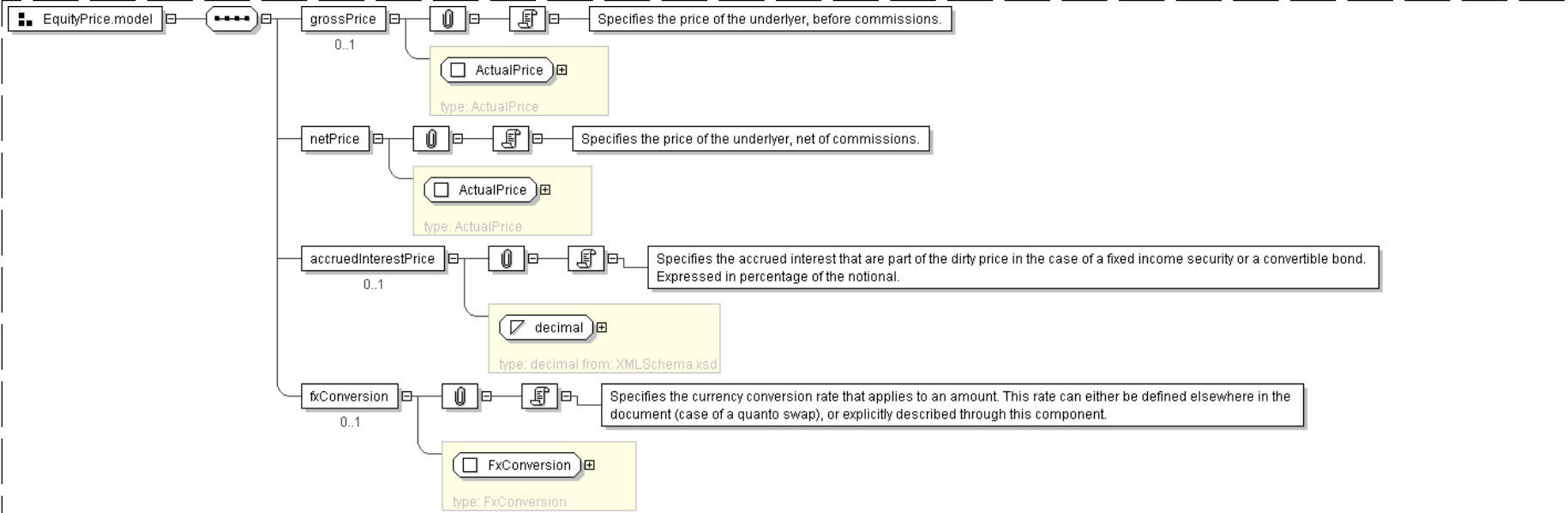
```
<grossPrice> ActualPrice </grossPrice> [0..1]
'Specifies the price of the underlyer, before commissions.'
```

```
<netPrice> ActualPrice </netPrice> [1]
'Specifies the price of the underlyer, net of commissions.'
```

```
<accruedInterestPrice> xsd:decimal </accruedInterestPrice> [0..1]
'Specifies the accrued interest that are part of the dirty price in the case of a fixed
income security or a convertible bond. Expressed in percentage of the notional.'
```

```
<fxConversion> FxConversion </fxConversion> [0..1]
'Specifies the currency conversion rate that applies to an amount. This rate can either
be defined elsewhere in the document (case of a quanto swap), or explicitly described
through this component.'
```

Diagram



Schema Component Representation

```
<xsd:group name="EquityPrice.model">
  <xsd:sequence>
    <xsd:element name="grossPrice" type=" ActualPrice " minOccurs="0"/>
    <xsd:element name="netPrice" type=" ActualPrice "/>
    <xsd:element name="accruedInterestPrice" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="fxConversion" type=" FxConversion " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```



Model Group: **ExchangeIdentifier.model**

Name	ExchangeIdentifier.model
Used by (from the same schema document)	Complex Type <a href="#">ExchangeTraded</a>

XML Instance Representation

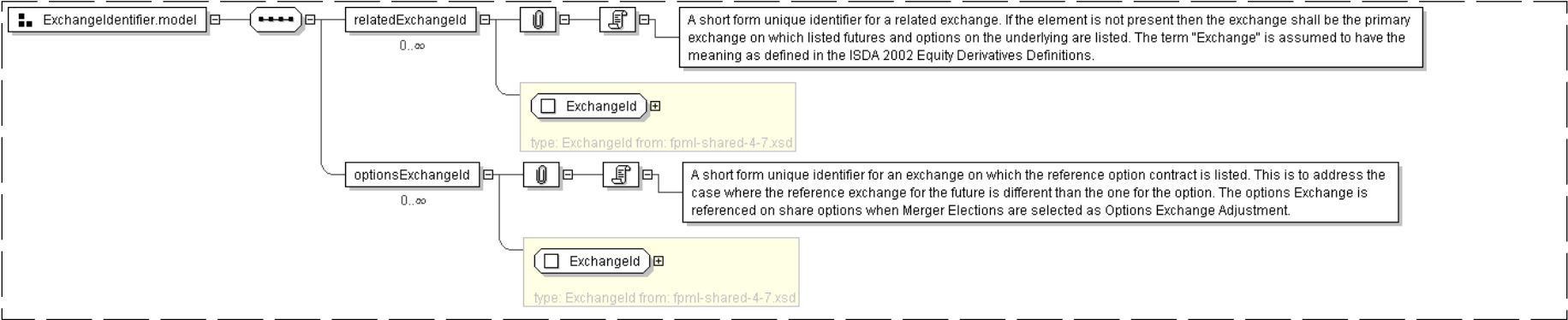
```
<relatedExchangeId> ExchangeId </relatedExchangeId> [0..*]
```

'A short form unique identifier for a related exchange. If the element is not present then the exchange shall be the primary exchange on which listed futures and options on the underlying are listed. The term \"Exchange\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.'

```
<optionsExchangeId> ExchangeId </optionsExchangeId> [0..*]
```

'A short form unique identifier for an exchange on which the reference option contract is listed. This is to address the case where the reference exchange for the future is different than the one for the option. The options Exchange is referenced on share options when Merger Elections are selected as Options Exchange Adjustment.'

Diagram



Schema Component Representation

```
<xsd:group name="ExchangeIdentifier.model">
  <xsd:sequence>
    <xsd:element name="relatedExchangeId" type="ExchangeId" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="optionsExchangeId" type="ExchangeId" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:group>
```

Model Group: **Quotation.model**

Name	Quotation.model
Used by (from the same schema document)	Complex Type <a href="#">BasicQuotation</a>
Documentation	Some kind of numerical measure about an asset, eg. its price or NPV, together with characteristics of that measure.

XML Instance Representation

```
<value> xsd:decimal </value> [0..1]
```

'The value of the the quotation.'

```
<measureType> AssetMeasureType </measureType> [0..1]
```

'The type of the value that is measured. This could be an NPV, a cash flow, a clean price, etc.'

```
<quoteUnits> PriceQuoteUnits </quoteUnits> [0..1]
```

'The optional units that the measure is expressed in. If not supplied, this is assumed to be

a price/value in currency units.'

<side> [QuotationSideEnum](#) </side> [0..1]  
'The side (bid/mid/ask) of the measure.'

<currency> [Currency](#) </currency> [0..1]  
'The optional currency that the measure is expressed in. If not supplied, this is defaulted from the reportingCurrency in the valuationScenarioDefinition.'

<timing> [QuoteTiming](#) </timing> [0..1]  
'When during a day the quote is for. Typically, if this element is supplied, the QuoteLocation needs also to be supplied.'

Start Group: [QuoteLocation.model](#) [0..1]  
'Where the quote is from.'

Start [Choice](#) [1]  
    <businessCenter> [BusinessCenter](#) </businessCenter> [1]  
    'A city or other business center.'

    <exchangeId> [ExchangeId](#) </exchangeId> [1]  
    'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'

End Choice  
End Group: [QuoteLocation.model](#)

<informationSource> [InformationSource](#) </informationSource> [0..\*]  
'The information source where a published or displayed market rate will be obtained, e. g. Telerate Page 3750.'

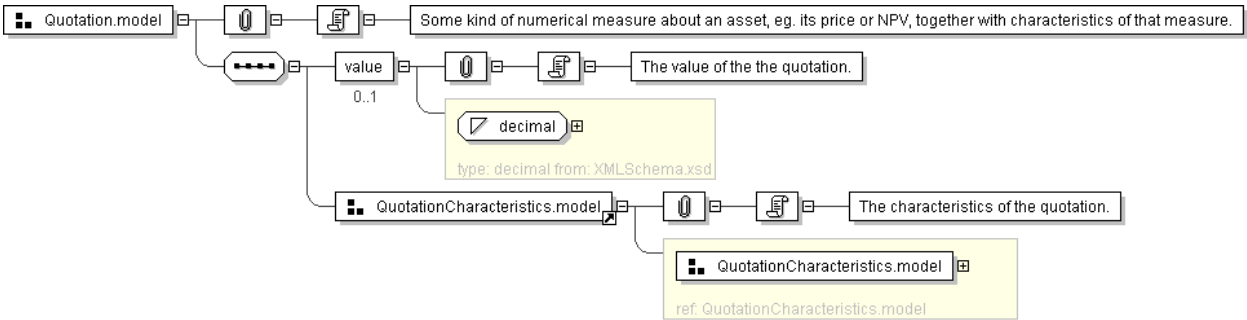
<time> [xsd:dateTime](#) </time> [0..1]  
'When the quote was observed or derived.'

<valuationDate> [xsd:date](#) </valuationDate> [0..1]  
'When the quote was computed.'

<expiryTime> [xsd:dateTime](#) </expiryTime> [0..1]  
'When does the quote cease to be valid.'

<cashFlowType> [CashflowType](#) </cashFlowType> [0..1]  
'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium Fee, Settlement Fee, Brokerage Fee, etc.'

Diagram



Schema Component Representation

```
<xsd:group name="Quotation.model">
  <xsd:sequence>
    <xsd:element name="value" type="xsd:decimal" minOccurs="0"/>
    <xsd:group ref="QuotationCharacteristics.model"/>
  </xsd:sequence>
</xsd:group>
```

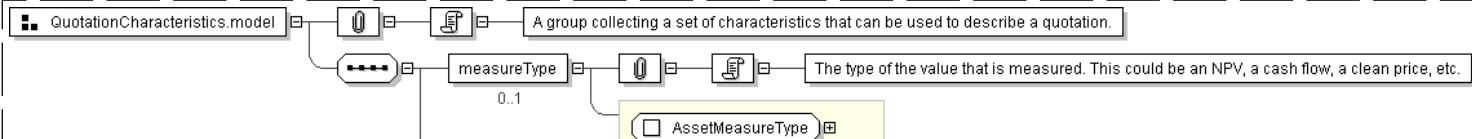
Model Group: **QuotationCharacteristics.model**

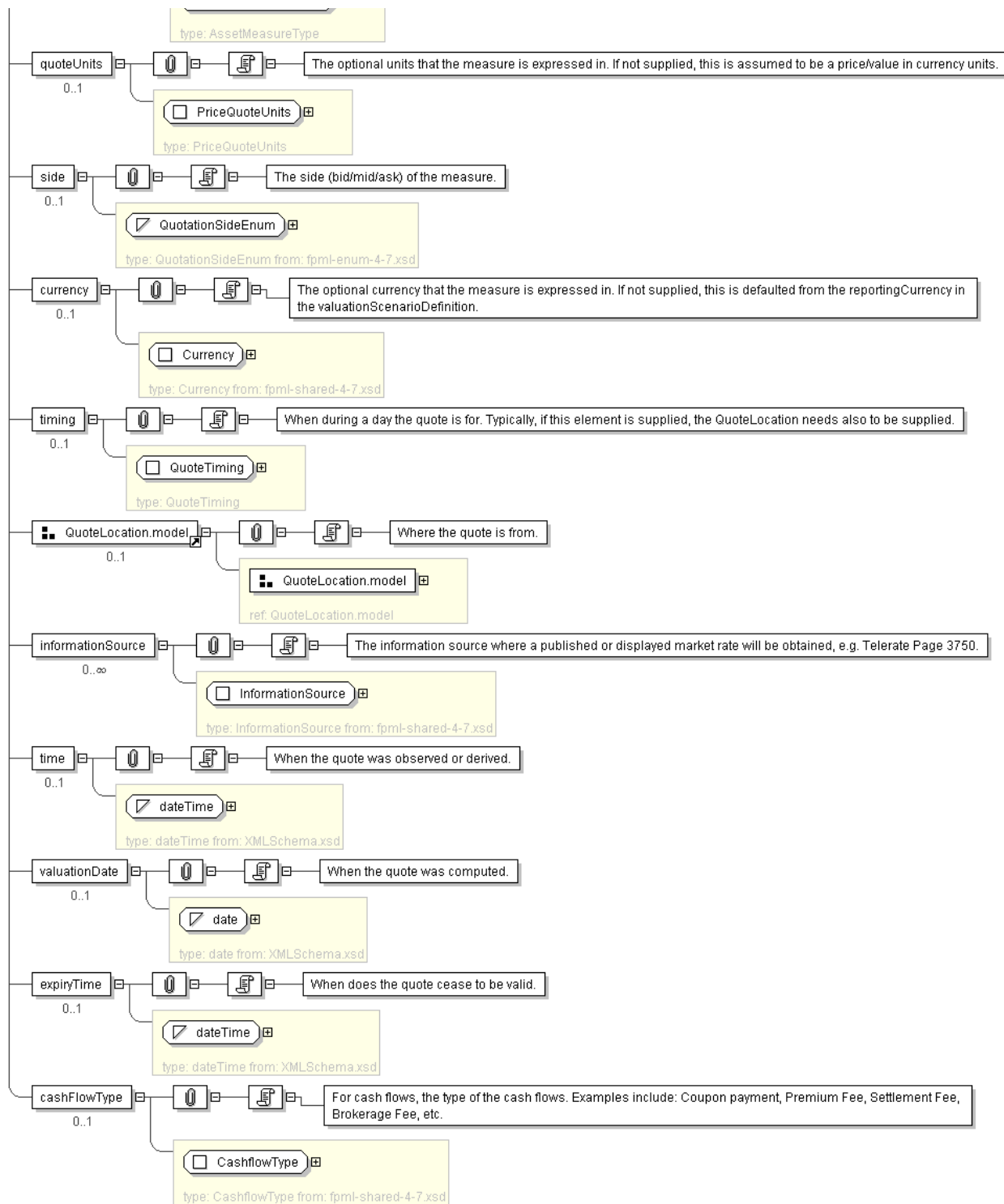
Name	QuotationCharacteristics.model
Used by (from the same schema document)	Complex Type <a href="#">QuotationCharacteristics</a> , Model Group <a href="#">Quotation.model</a>
Documentation	A group collecting a set of characteristics that can be used to describe a quotation.

XML Instance Representation

<code>&lt;measureType&gt; <a href="#">AssetMeasureType</a> &lt;/measureType&gt; [0..1]</code>	'The type of the value that is measured. This could be an NPV, a cash flow, a clean price, etc.'
<code>&lt;quoteUnits&gt; <a href="#">PriceQuoteUnits</a> &lt;/quoteUnits&gt; [0..1]</code>	'The optional units that the measure is expressed in. If not supplied, this is assumed to be a price/value in currency units.'
<code>&lt;side&gt; <a href="#">QuotationSideEnum</a> &lt;/side&gt; [0..1]</code>	'The side (bid/mid/ask) of the measure.'
<code>&lt;currency&gt; <a href="#">Currency</a> &lt;/currency&gt; [0..1]</code>	'The optional currency that the measure is expressed in. If not supplied, this is defaulted from the reportingCurrency in the valuationScenarioDefinition.'
<code>&lt;timing&gt; <a href="#">QuoteTiming</a> &lt;/timing&gt; [0..1]</code>	'When during a day the quote is for. Typically, if this element is supplied, the QuoteLocation needs also to be supplied.'
Start Group: <code><a href="#">QuoteLocation.model</a> [0..1]</code>	'Where the quote is from.'
Start <code><a href="#">Choice</a> [1]</code>	
<code>&lt;businessCenter&gt; <a href="#">BusinessCenter</a> &lt;/businessCenter&gt; [1]</code>	'A city or other business center.'
<code>&lt;exchangeId&gt; <a href="#">ExchangeId</a> &lt;/exchangeId&gt; [1]</code>	'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'
End <code><a href="#">Choice</a></code>	
End Group: <code><a href="#">QuoteLocation.model</a></code>	
<code>&lt;informationSource&gt; <a href="#">InformationSource</a> &lt;/informationSource&gt; [0..*]</code>	'The information source where a published or displayed market rate will be obtained, e.g. Telerate Page 3750.'
<code>&lt;time&gt; <a href="#">xsd:dateTime</a> &lt;/time&gt; [0..1]</code>	'When the quote was observed or derived.'
<code>&lt;valuationDate&gt; <a href="#">xsd:date</a> &lt;/valuationDate&gt; [0..1]</code>	'When the quote was computed.'
<code>&lt;expiryTime&gt; <a href="#">xsd:dateTime</a> &lt;/expiryTime&gt; [0..1]</code>	'When does the quote cease to be valid.'
<code>&lt;cashFlowType&gt; <a href="#">CashflowType</a> &lt;/cashFlowType&gt; [0..1]</code>	'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium Fee, Settlement Fee, Brokerage Fee, etc.'

Diagram





```
<xsd:group name="QuotationCharacteristics.model">
  <xsd:sequence>
    <xsd:element name="measureType" type=" AssetMeasureType " minOccurs="0"/>
    <xsd:element name="quoteUnits" type=" PriceQuoteUnits " minOccurs="0"/>
    <xsd:element name="side" type=" QuotationSideEnum " minOccurs="0"/>
    <xsd:element name="currency" type=" Currency " minOccurs="0"/>
    <xsd:element name="timing" type=" QuoteTiming " minOccurs="0"/>
    <xsd:group ref=" QuoteLocation.model " minOccurs="0"/>
    <xsd:element name="informationSource" type=" InformationSource "
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="time" type=" xsd:dateTime " minOccurs="0"/>
    <xsd:element name="valuationDate" type=" xsd:date " minOccurs="0"/>
    <xsd:element name="expiryTime" type=" xsd:dateTime " minOccurs="0"/>
    <xsd:element name="cashFlowType" type=" CashflowType " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **QuoteLocation.model**

Name	QuoteLocation.model
Used by (from the same schema document)	Model Group <a href="#">QuotationCharacteristics.model</a>
Documentation	A group describing where a quote was or will be obtained, e.g. observed or calculated.

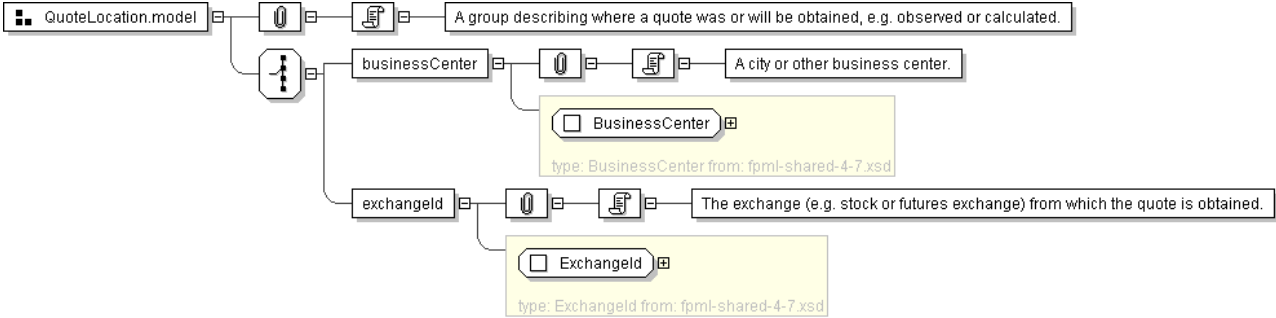
XML Instance Representation

```
Start Choice [1]
<businessCenter> BusinessCenter </businessCenter> [1]
  'A city or other business center.'

<exchangeId> ExchangeId </exchangeId> [1]
  'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'
```

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="QuoteLocation.model">
  <xsd:choice>
    <xsd:element name="businessCenter" type=" BusinessCenter " />
    <xsd:element name="exchangeId" type=" ExchangeId " />
  </xsd:choice>
</xsd:group>
```

[top](#)

Legend

XML Schema Documentation

Complex Type:

AusAddress

Schema Component Type

Schema Component Name

Super-types:

[Address](#) < AusAddress (by extension)

Sub-types:

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<div>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start <a href="#">Choice</a> [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <a href="#">AusStates</a> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</div>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<div>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" <a href="#">Address</a> "&gt; &lt;sequence&gt; &lt;element name="state" type=" <a href="#">AusStates</a> "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}" /&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</div>
---

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** Only *one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-option-shared-4-7.xsd</a></li><li>◦ <a href="#">fpml-mktenv-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-option-shared-4-7.xsd" />
  <xsd:include schemaLocation="fpml-mktenv-4-7.xsd" />
  ...
</xsd:schema>
```

[top](#)

## Global Declarations

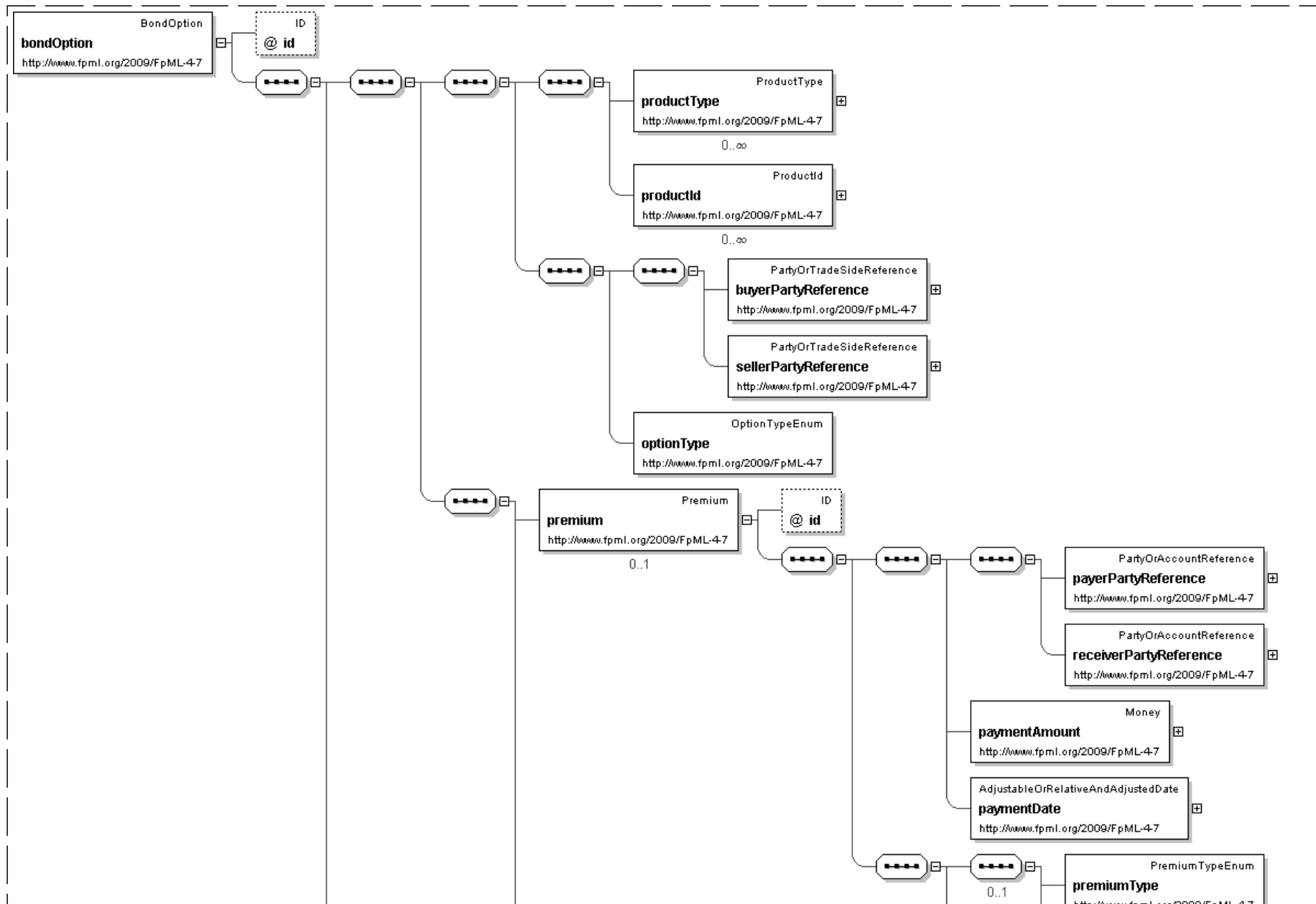
Element: **bondOption**

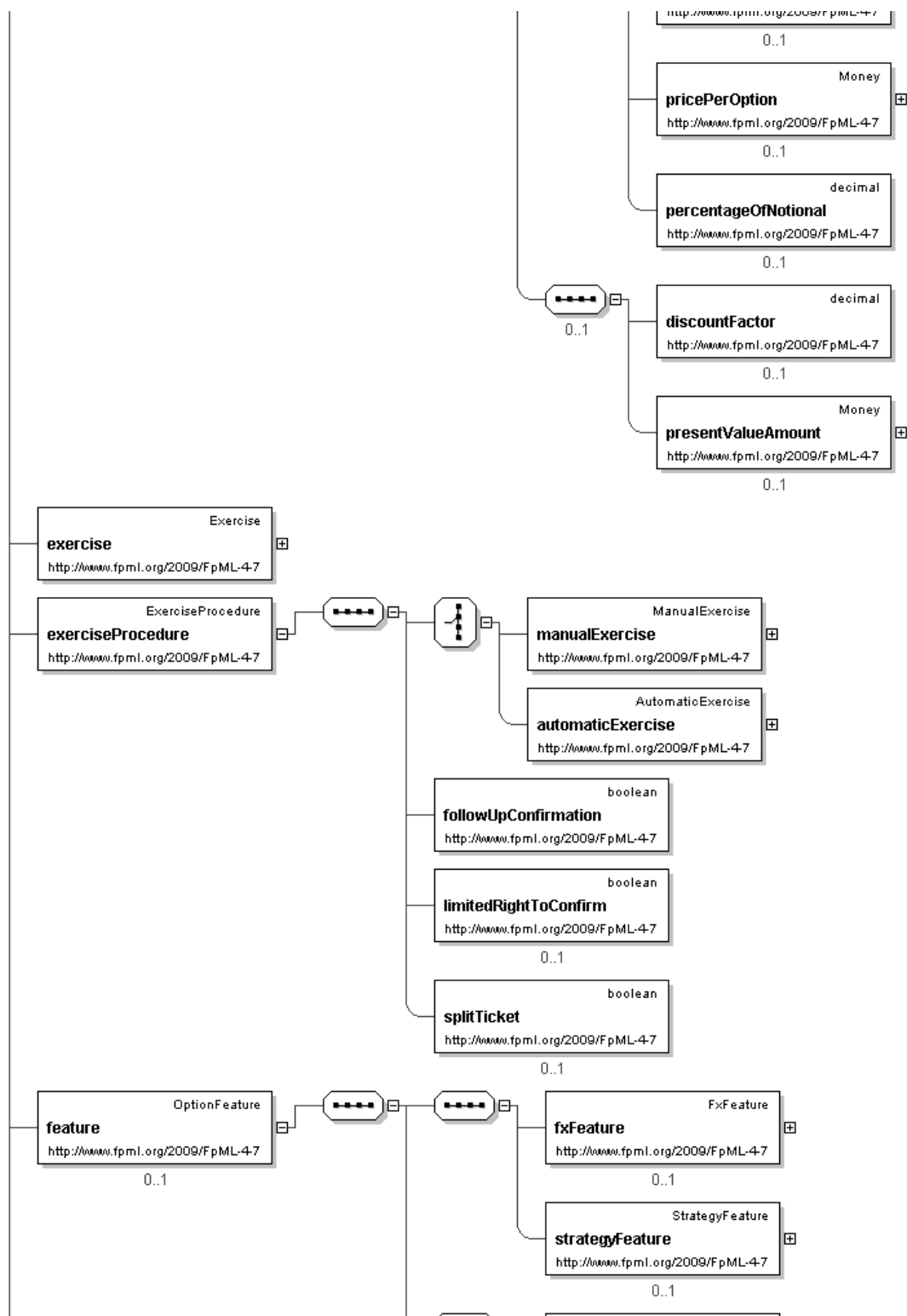


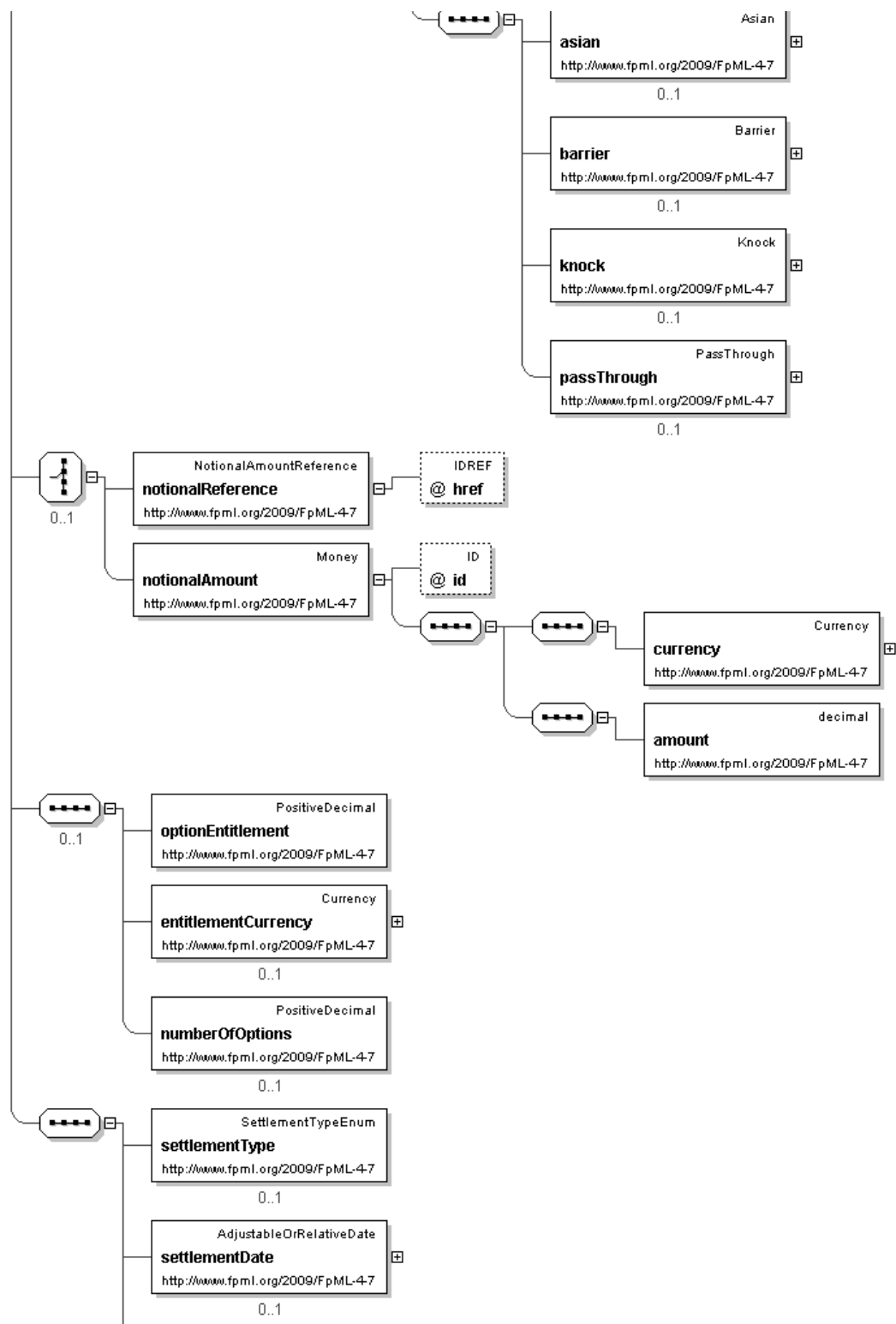
- This element can be used wherever the following element is referenced:
  - [product](#)

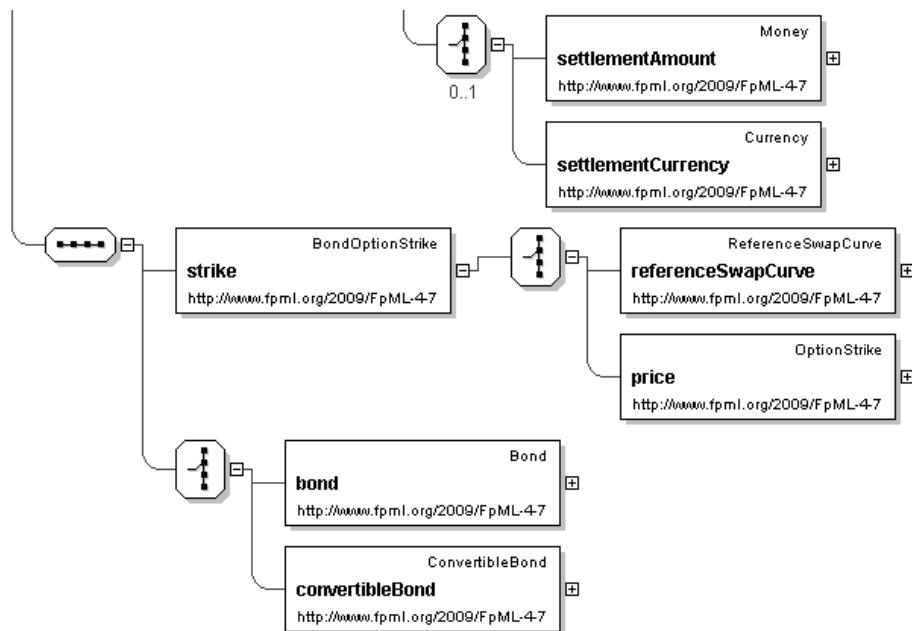
<b>Name</b>	bondOption
<b>Type</b>	<a href="#">BondOption</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	A component describing a Bond Option product.

#### Logical Diagram









### XML Instance Representation

```
<bondOption
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction. From a usage standpoint, put/call is the default option
  type, while payer/receiver indicator is used for options index credit default
  swaps, consistently with the industry practice. Straddle is used for the case of
  straddle strategy, that combine a call and a put with the same strike.'

  <premium> Premium </premium> [0..1]
  'The option premium payable by the buyer to the seller.'

  <exercise> ... </exercise> [1]
  <exerciseProcedure> ExerciseProcedure </exerciseProcedure> [1]
```

'A set of parameters defining procedures associated with the exercise.'

<feature> OptionFeature </feature> [0..1]

'An Option feature such as quanto, asian, barrier, knock.'

Start Choice [0..1]

'A choice between an explicit representation of the notional amount, or a reference to a notional amount defined elsewhere in this document.'

<notionalReference> NotionalAmountReference </notionalReference> [1]

<notionalAmount> Money </notionalAmount> [1]

End Choice

Start Group: OptionDenomination.model [0..1]

<optionEntitlement> PositiveDecimal </optionEntitlement> [1]

'The number of units of underlyer per option comprised in the option transaction.'

<entitlementCurrency> Currency </entitlementCurrency> [0..1]

'TODO'

<numberOfOptions> PositiveDecimal </numberOfOptions> [0..1]

'The number of options comprised in the option transaction.'

End Group: OptionDenomination.model

<settlementType> SettlementTypeEnum </settlementType> [0..1]

<settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]

Start Group: SettlementAmountOrCurrency.model [0..1]

Start Choice [1]

<settlementAmount> Money </settlementAmount> [1]

'Settlement Amount'

<settlementCurrency> Currency </settlementCurrency> [1]

'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice

End Group: SettlementAmountOrCurrency.model

<strike> BondOptionStrike </strike> [1]

'Strike of the the Bond Option.'

Start Choice [1]

<bond> ... </bond> [1]

'A bond instrument referenced by a contract'

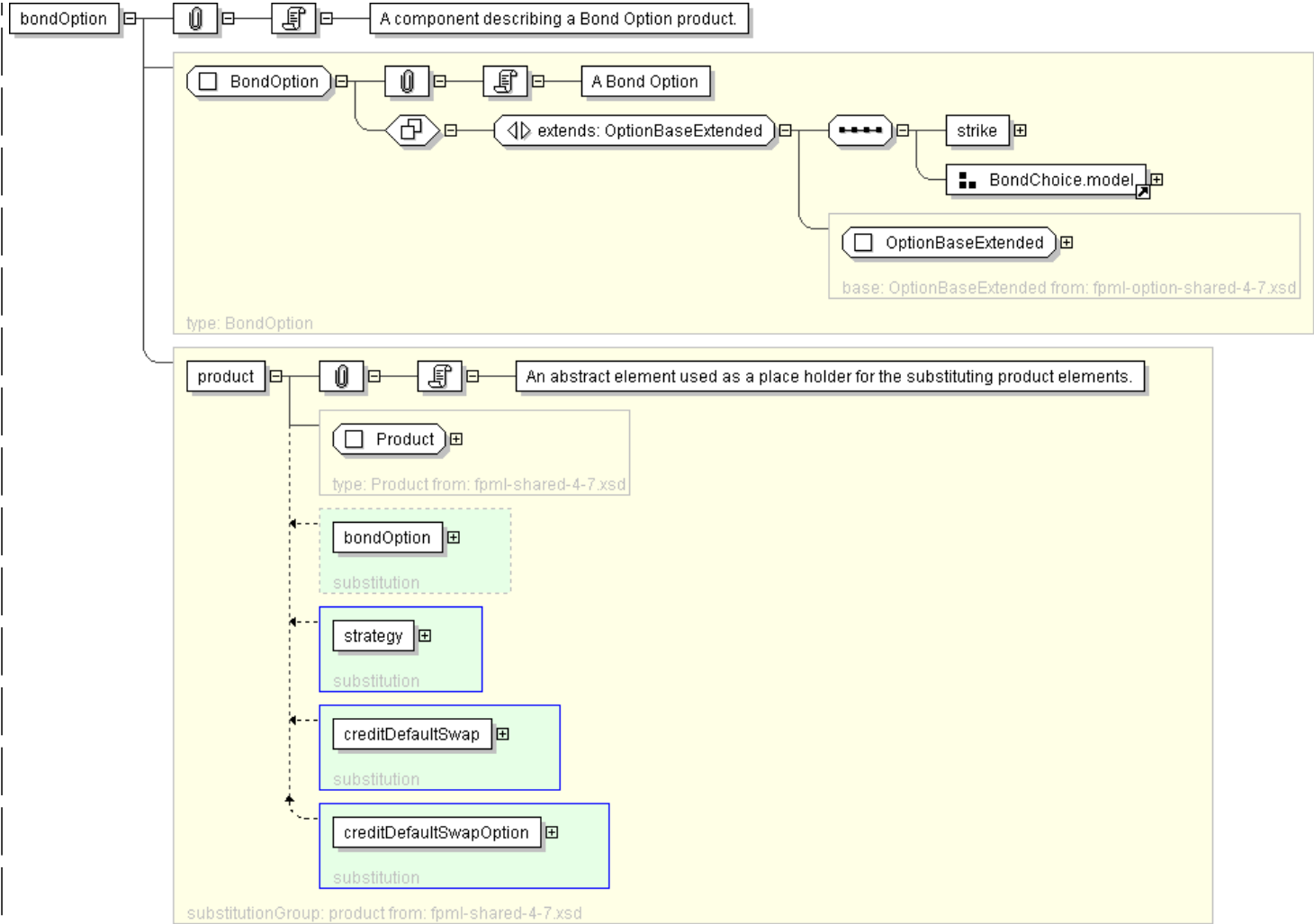
<convertibleBond> ... </convertibleBond> [1]

'A convertible bond instrument referenced by a contract.'

End Choice

</bondOption>

Diagram



Schema Component Representation

```
<xsd:element name="bondOption" type=" BondOption " substitutionGroup="product"/>
```

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Global Definitions

Complex Type: **BondOption**

Super-types:	<a href="#">OptionBaseExtended</a> < <b>BondOption</b> (by extension)
Sub-types:	None

Name	BondOption
Used by (from the same schema document)	Element <a href="#">bondOption</a>

Abstract	no
Documentation	A Bond Option

XML Instance Representation

<... id=" xsd:ID [0..1]"> <productType> <u>ProductType</u> </productType> [0..*]  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'  <productId> <u>ProductId</u> </productId> [0..*]  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'  <buyerPartyReference> <u>PartyOrTradeSideReference</u> </buyerPartyReference> [1]  'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'  <sellerPartyReference> <u>PartyOrTradeSideReference</u> </sellerPartyReference> [1]  'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'  <optionType> <u>OptionTypeEnum</u> </optionType> [1]  'The type of option transaction. From a usage standpoint, put/call is the default option type, while payer/receiver indicator is used for options index credit default swaps, consistently with the industry practice. Straddle is used for the case of straddle strategy, that combine a call and a put with the same strike.'  <premium> <u>Premium</u> </premium> [0..1]  'The option premium payable by the buyer to the seller.'  <exercise> ... </exercise> [1] <exerciseProcedure> <u>ExerciseProcedure</u> </exerciseProcedure> [1]  'A set of parameters defining procedures associated with the exercise.'  <feature> <u>OptionFeature</u> </feature> [0..1]  'An Option feature such as quanto, asian, barrier, knock.'  Start <u>Choice</u> [0..1]  'A choice between an explicit representation of the notional amount, or a reference to a notional amount defined elsewhere in this document.'  <notionalReference> <u>NotionalAmountReference</u> </notionalReference> [1] <notionalAmount> <u>Money</u> </notionalAmount> [1]  End Choice Start Group: <u>OptionDenomination.model</u> [0..1] <optionEntitlement> <u>PositiveDecimal</u> </optionEntitlement> [1]  'The number of units of underlyer per option comprised in the option transaction.'  <entitlementCurrency> <u>Currency</u> </entitlementCurrency> [0..1]  'TODO'  <numberOfOptions> <u>PositiveDecimal</u> </numberOfOptions> [0..1]  'The number of options comprised in the option transaction.'
--

```
End Group: OptionDenomination.model
  <settlementType> SettlementTypeEnum </settlementType> [0..1]
  <settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
Start Group: SettlementAmountOrCurrency.model [0..1]
Start Choice [1]
  <settlementAmount> Money </settlementAmount> [1]
  'Settlement Amount'

  <settlementCurrency> Currency </settlementCurrency> [1]
  'Settlement Currency for use where the Settlement Amount cannot be known in advance'

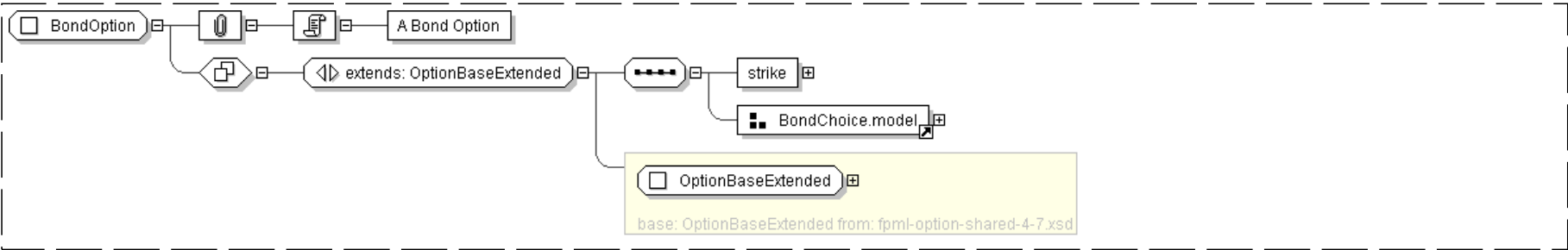
End Choice
End Group: SettlementAmountOrCurrency.model
<strike> BondOptionStrike </strike> [1]
'Strike of the the Bond Option.'

Start Choice [1]
  <bond> ... </bond> [1]
  'A bond instrument referenced by a contract'

  <convertibleBond> ... </convertibleBond> [1]
  'A convertible bond instrument referenced by a contract.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BondOption">
  <xsd:complexContent>
    <xsd:extension base=" OptionBaseExtended ">
      <xsd:sequence>
        <xsd:element name="strike" type=" BondOptionStrike "/>
        <xsd:group ref=" BondChoice.model "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: BondOptionStrike



Super-types:	None
Sub-types:	None

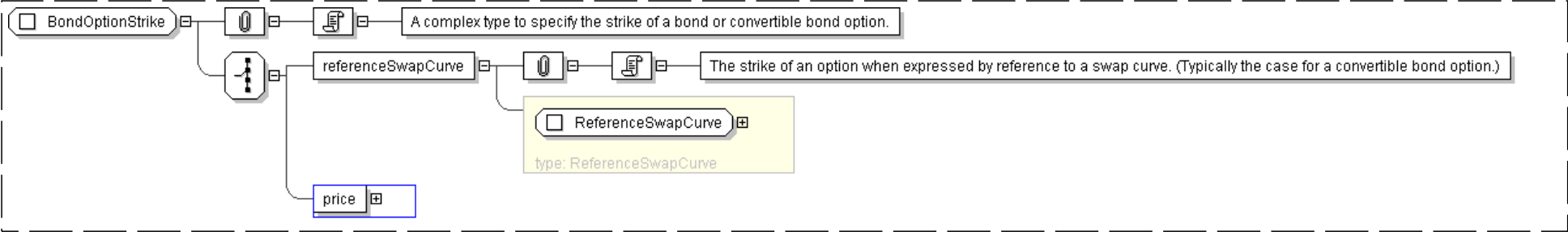
Name	BondOptionStrike
Used by (from the same schema document)	Complex Type <a href="#">BondOption</a>
Abstract	no
Documentation	A complex type to specify the strike of a bond or convertible bond option.

XML Instance Representation

```
<...>
  Start Choice [1]
    <referenceSwapCurve> ReferenceSwapCurve </referenceSwapCurve> [1]
    'The strike of an option when expressed by reference to a swap curve. (Typically the case for a convertible bond option.)'

    <price> OptionStrike </price> [1]
  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BondOptionStrike">
  <xsd:choice>
    <xsd:element name="referenceSwapCurve" type=" ReferenceSwapCurve " />
    <xsd:element name="price" type=" OptionStrike " />
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: **MakeWholeAmount**

Super-types:	<a href="#">SwapCurveValuation</a> < <b>MakeWholeAmount</b> (by extension)
Sub-types:	None

Name	MakeWholeAmount
Used by (from the same schema document)	Complex Type <a href="#">ReferenceSwapCurve</a>
Abstract	no
Documentation	A complex type to specify the amount to be paid by the buyer of the option if the option is exercised prior to the Early Call Date (Typically applicable to the convertible bond options).

XML Instance Representation

```
<...>
```

```
<floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
<indexTenor> Period </indexTenor> [0..1]
'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

<spread> xsd:decimal </spread> [1]
'Spread in basis points over the floating rate index.'

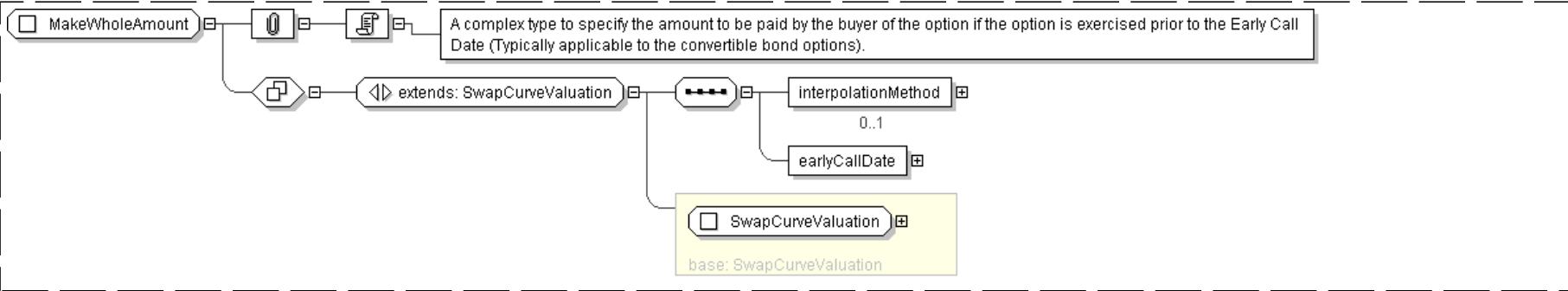
<side> QuotationSideEnum </side> [0..1]
'The side (bid/mid/ask) of the measure.'

<interpolationMethod> InterpolationMethod </interpolationMethod> [0..1]
'The type of interpolation method that the calculation agent reserves the right to use.'

<earlyCallDate> IdentifiedDate </earlyCallDate> [1]
'Date prior to which the option buyer will have to pay a Make Whole Amount to the option
seller if he/she exercises the option.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="MakeWholeAmount">
  <xsd:complexContent>
    <xsd:extension base=" SwapCurveValuation ">
      <xsd:sequence>
        <xsd:element name="interpolationMethod" type=" InterpolationMethod " minOccurs="0"/>
        <xsd:element name="earlyCallDate" type=" IdentifiedDate "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: ReferenceSwapCurve

Super-types:	None
Sub-types:	None
Name	ReferenceSwapCurve
Used by (from the same schema document)	Complex Type <a href="#">BondOptionStrike</a>
Abstract	no

Documentation

A complex type used to specify the option and convertible bond option strike when expressed in reference to a swap curve.

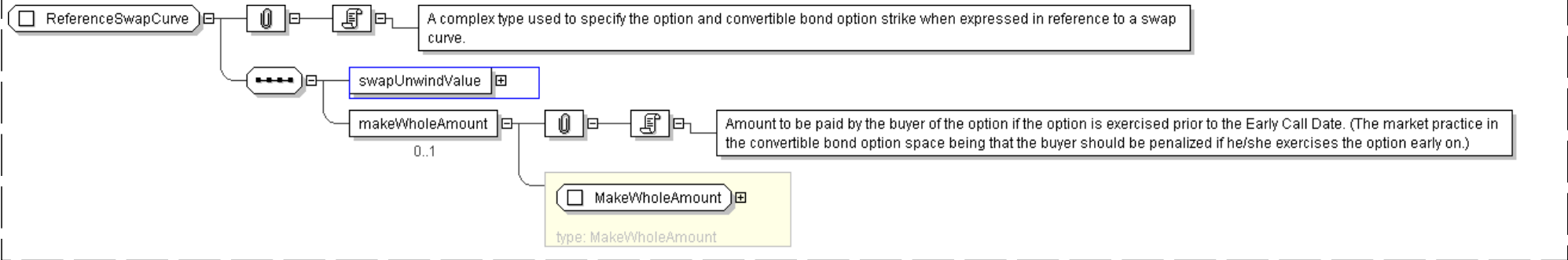
XML Instance Representation

```
<...>
  <swapUnwindValue> SwapCurveValuation </swapUnwindValue> [1]
  <makeWholeAmount> MakeWholeAmount </makeWholeAmount> [0..1]

  'Amount to be paid by the buyer of the option if the option is exercised prior to the
  Early Call Date. (The market practice in the convertible bond option space being that the
  buyer should be penalized if he/she exercises the option early on.)'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReferenceSwapCurve">
  <xsd:sequence>
    <xsd:element name="swapUnwindValue" type=" SwapCurveValuation " />
    <xsd:element name="makeWholeAmount" type=" MakeWholeAmount " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: SwapCurveValuation

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>MakeWholeAmount (by extension)</li></ul>

Name	SwapCurveValuation
Used by (from the same schema document)	Complex Type <a href="#">ReferenceSwapCurve</a>
Abstract	no
Documentation	A complex type to specify a valuation swap curve, which is used as part of the strike construct for the bond and convertible bond options.

XML Instance Representation

```
<...>
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [0..1]

  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

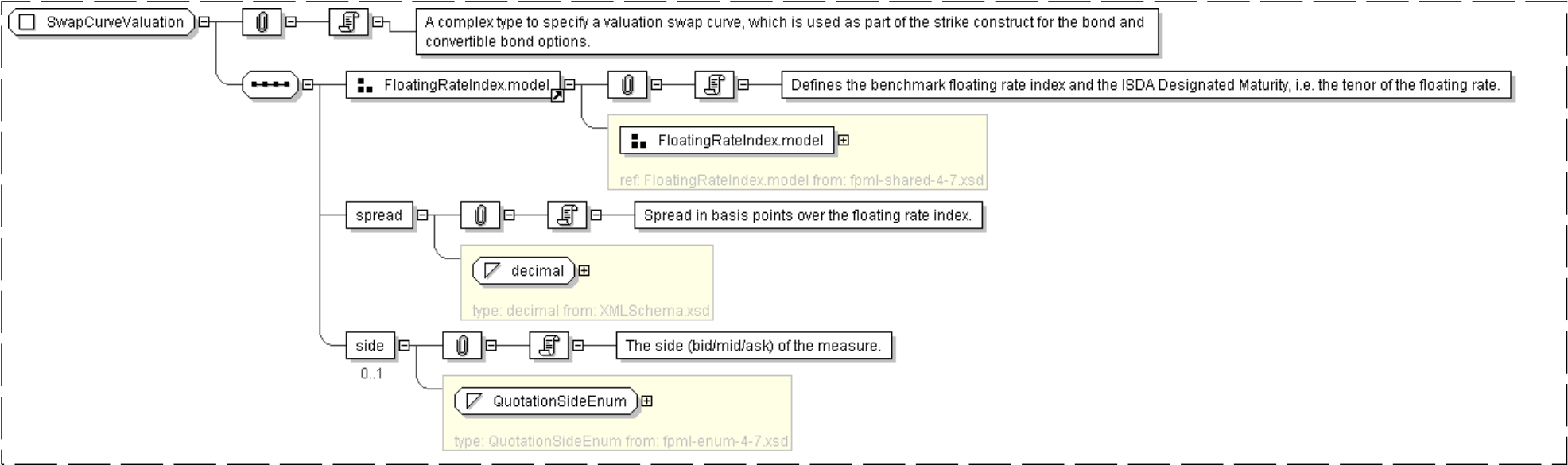
  <spread> xsd:decimal </spread> [1]

  'Spread in basis points over the floating rate index.'
```

```
<side> QuotationSideEnum </side> [0..1]
'The side (bid/mid/ask) of the measure.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SwapCurveValuation">
  <xsd:sequence>
    <xsd:group ref=" FloatingRateIndex.model " />
    <xsd:element name="spread" type=" xsd:decimal " />
    <xsd:element name="side" type=" QuotationSideEnum " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

*Super-types:*      [Address](#) < AusAddress (by extension)  
*Sub-types:*           • [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

<b>Name</b>	AusAddress
<b>Abstract</b>	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; AusStates &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" Address " &gt; &lt;sequence&gt; &lt;element name="state" type=" AusStates "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
---

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then,

collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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  - Complex Type: [ReferenceObligation](#)
  - Complex Type: [ReferencePair](#)
  - Complex Type: [ReferencePool](#)
  - Complex Type: [ReferencePoolItem](#)
  - Complex Type: [ScheduledTerminationDate](#)
  - Complex Type: [SettledEntityMatrix](#)
  - Complex Type: [SettlementTerms](#)
  - Complex Type: [SettlementTermsReference](#)
  - Complex Type: [SinglePayment](#)
  - Complex Type: [SingleValuationDate](#)
  - Complex Type: [SpecifiedCurrency](#)
  - Complex Type: [Tranche](#)
  - Complex Type: [ValuationDate](#)
  - Model Group: [FixedRecovery.model](#)

## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6578 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-option-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6578 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-option-shared-4-7.xsd" />
  ...
</xsd:schema>
```

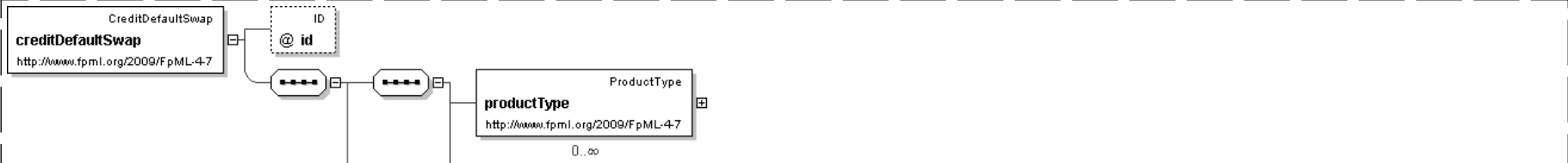
## Global Declarations

Element: **creditDefaultSwap**

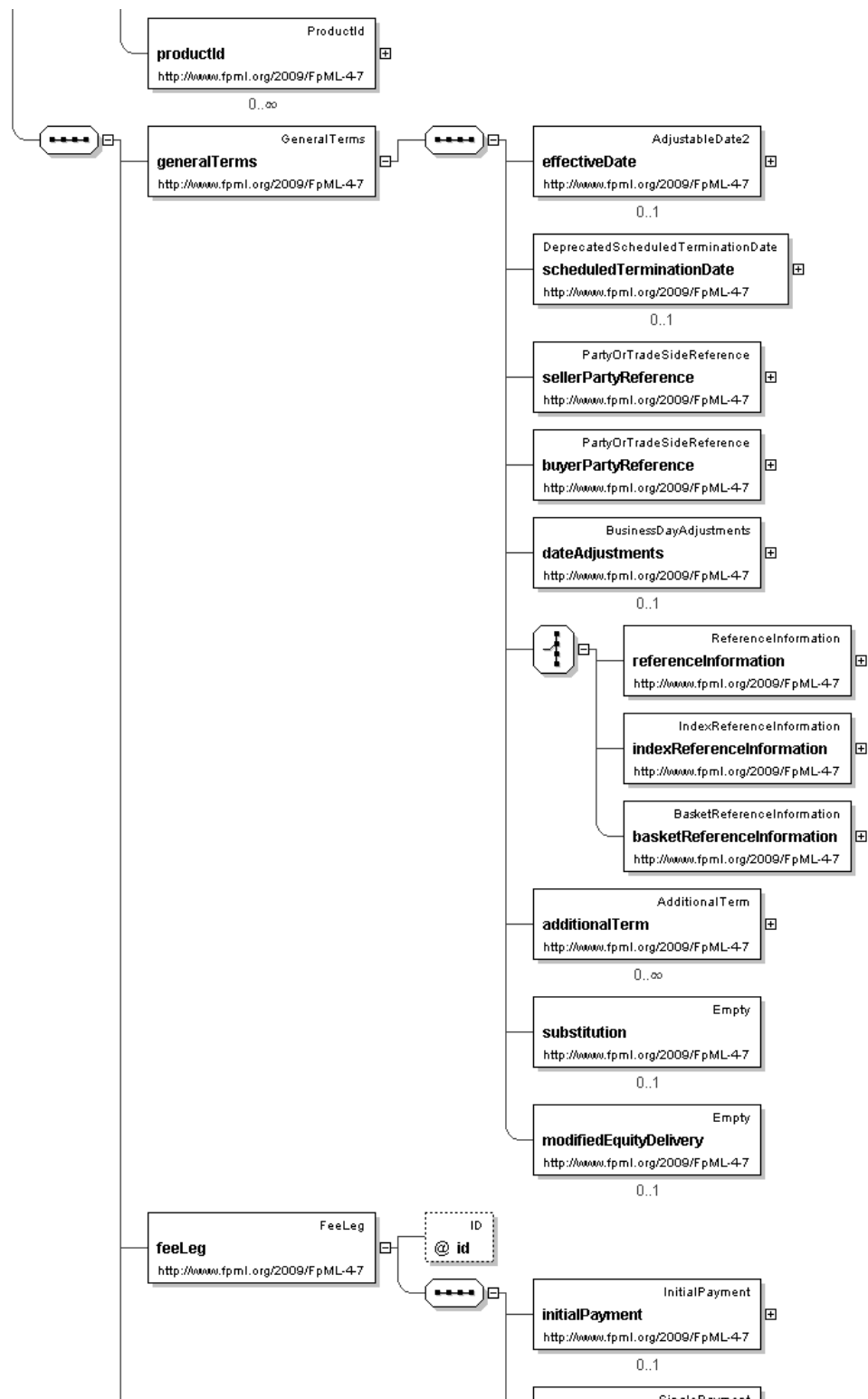
- This element can be used wherever the following element is referenced:
  - [product](#)

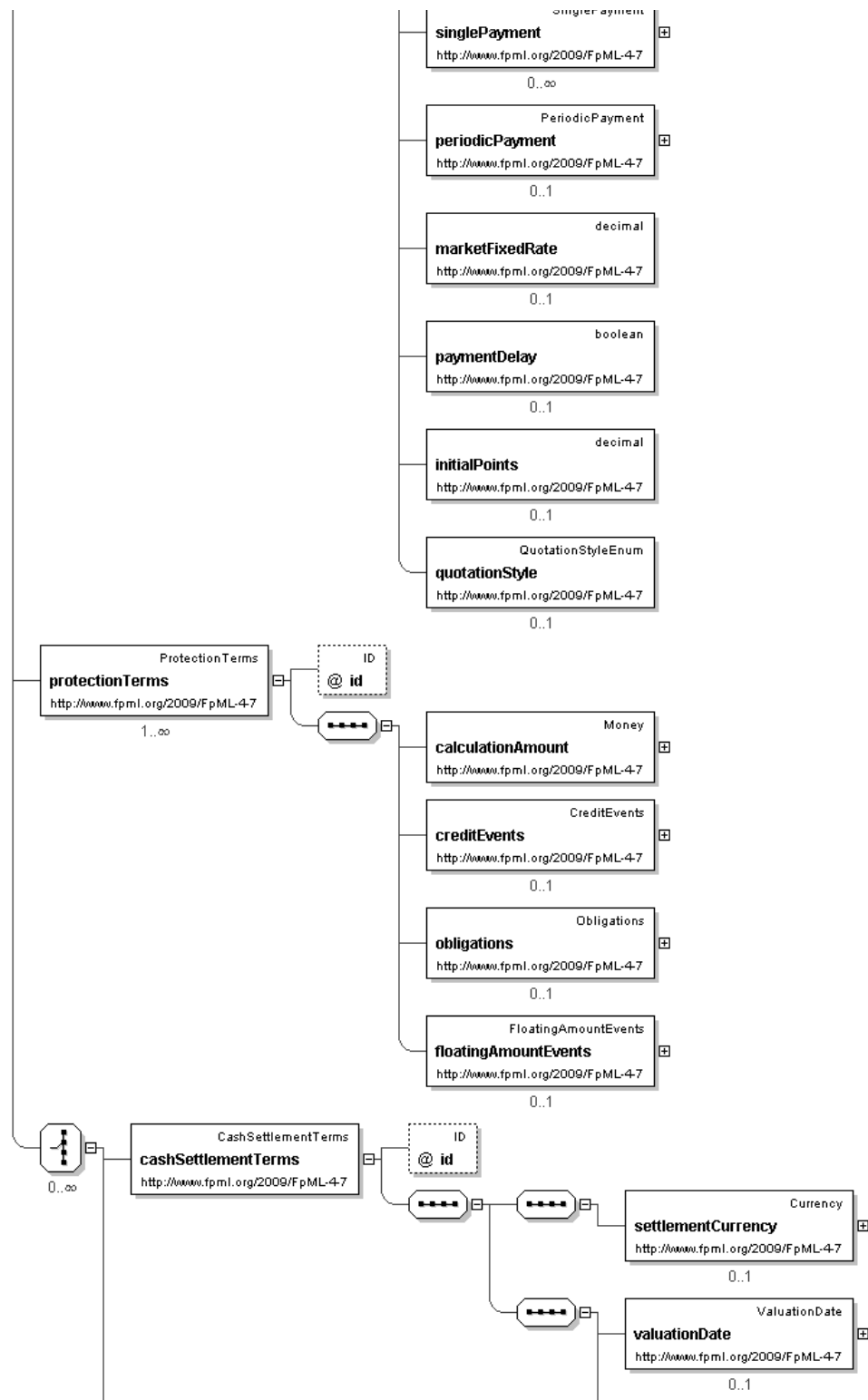
Name	creditDefaultSwap
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwapOption</a>
Type	<a href="#">CreditDefaultSwap</a>
Nilable	no
Abstract	no
Documentation	In a credit default swap one party (the protection seller) agrees to compensate another party (the protection buyer) if a specified company or Sovereign (the reference entity) experiences a credit event, indicating it is or may be unable to service its debts. The protection seller is typically paid a fee and/ or premium, expressed as an annualized percent of the notional in basis points, regularly over the life of the transaction or otherwise as agreed by the parties.

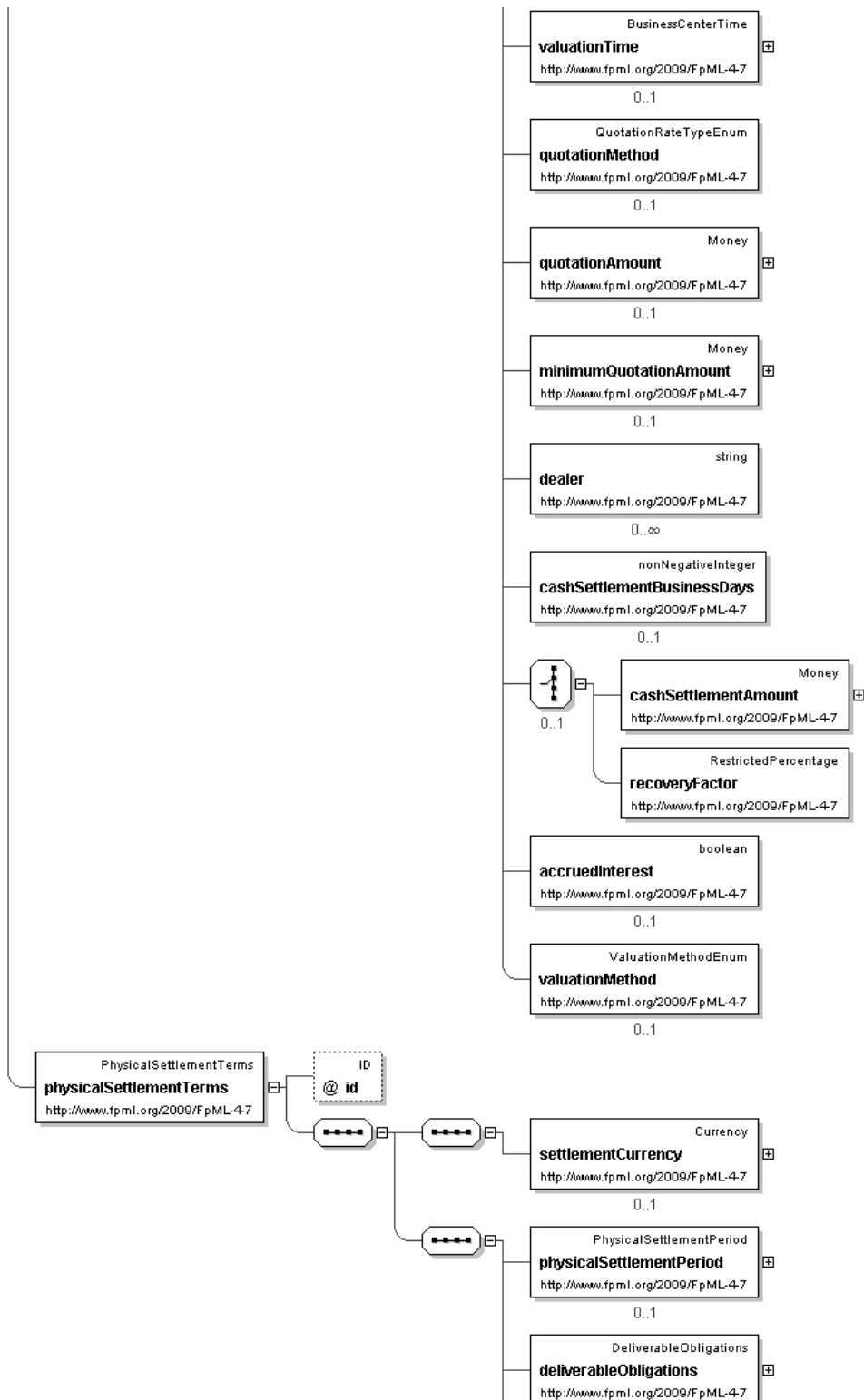
### Logical Diagram

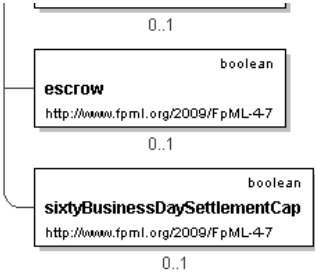












XML Instance Representation

```
<creditDefaultSwap
id=" xsd:ID {0..1}">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <generalTerms> GeneralTerms </generalTerms> [1]
  'This element contains all the data that appears in the section entitled \"1. General Terms
  \" in the 2003 ISDA Credit Derivatives Confirmation.'

  <feeLeg> FeeLeg </feeLeg> [1]
  'This element contains all the terms relevant to defining the fixed amounts/payments per
  the applicable ISDA definitions.'

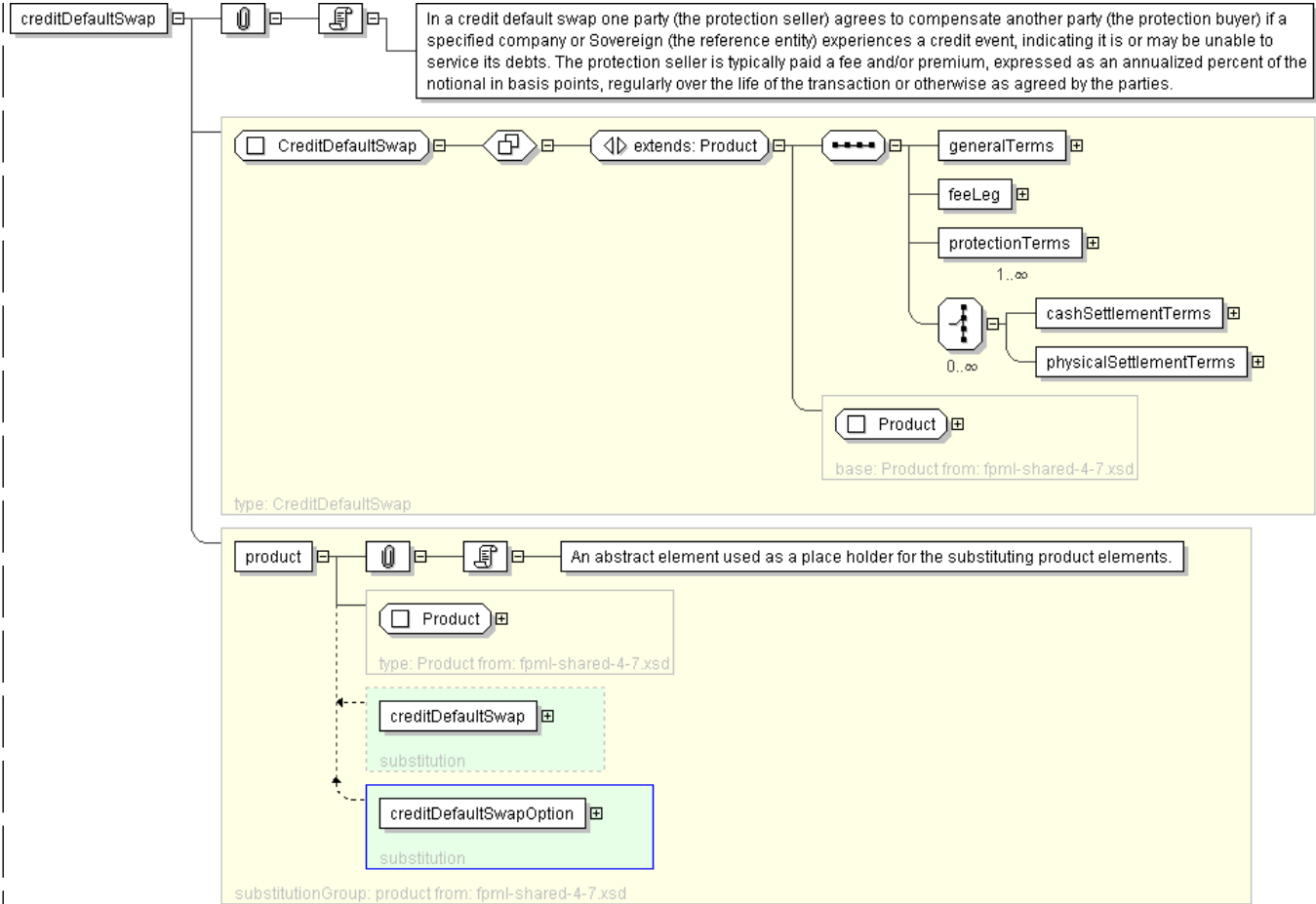
  <protectionTerms> ProtectionTerms </protectionTerms> [1..*]
  'This element contains all the terms relevant to defining the applicable floating rate
  payer calculation amount, credit events and associated conditions to settlement, and
  reference obligations.'

  Start Choice [0..*]
    <cashSettlementTerms> CashSettlementTerms </cashSettlementTerms> [1]
    'This element contains all the ISDA terms relevant to cash settlement for when cash
    settlement is applicable. ISDA 2003 Term: Cash Settlement'

    <physicalSettlementTerms> PhysicalSettlementTerms </physicalSettlementTerms> [1]
    'This element contains all the ISDA terms relevant to physical settlement for when
    physical settlement is applicable. ISDA 2003 Term: Physical Settlement'

  End Choice
</creditDefaultSwap>
```

Diagram



Schema Component Representation

```
<xsd:element name="creditDefaultSwap" type="CreditDefaultSwap" substitutionGroup="product"/>
```

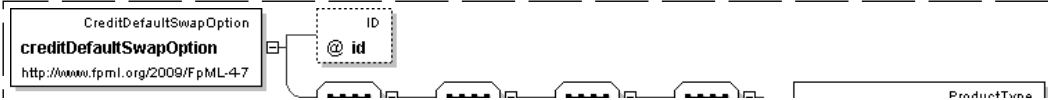
[top](#)

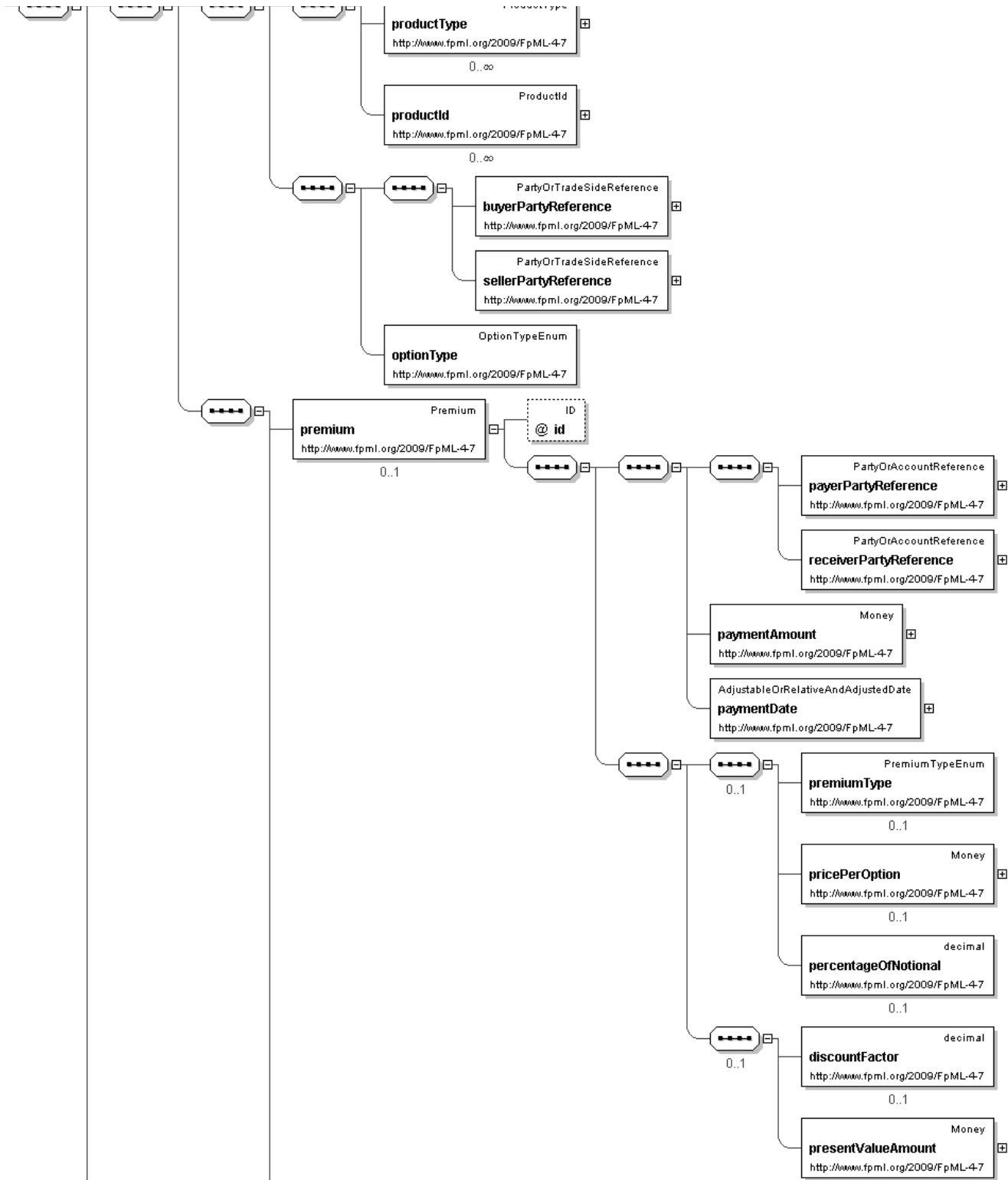
Element: **creditDefaultSwapOption**

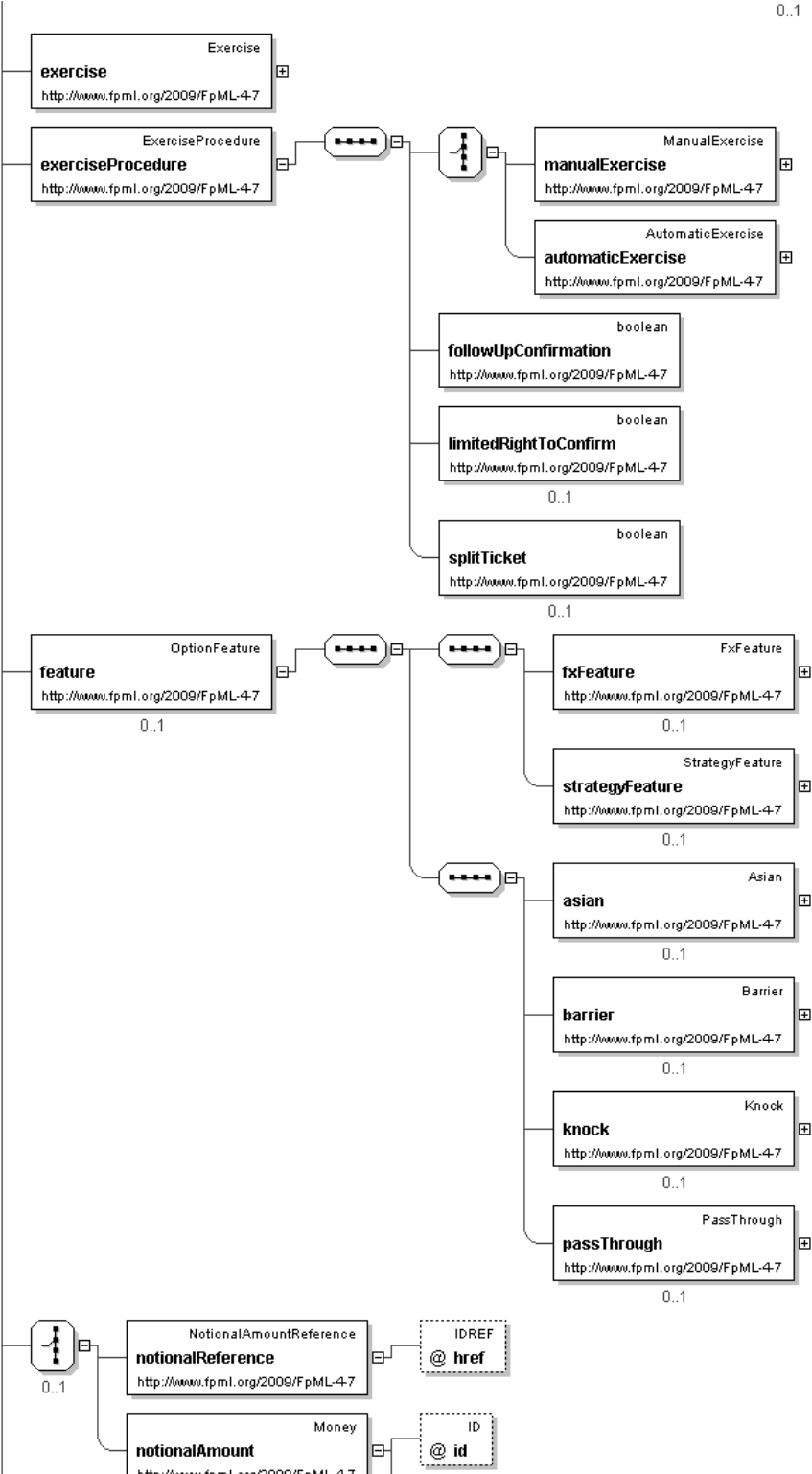
- This element can be used wherever the following element is referenced:
  - [product](#)

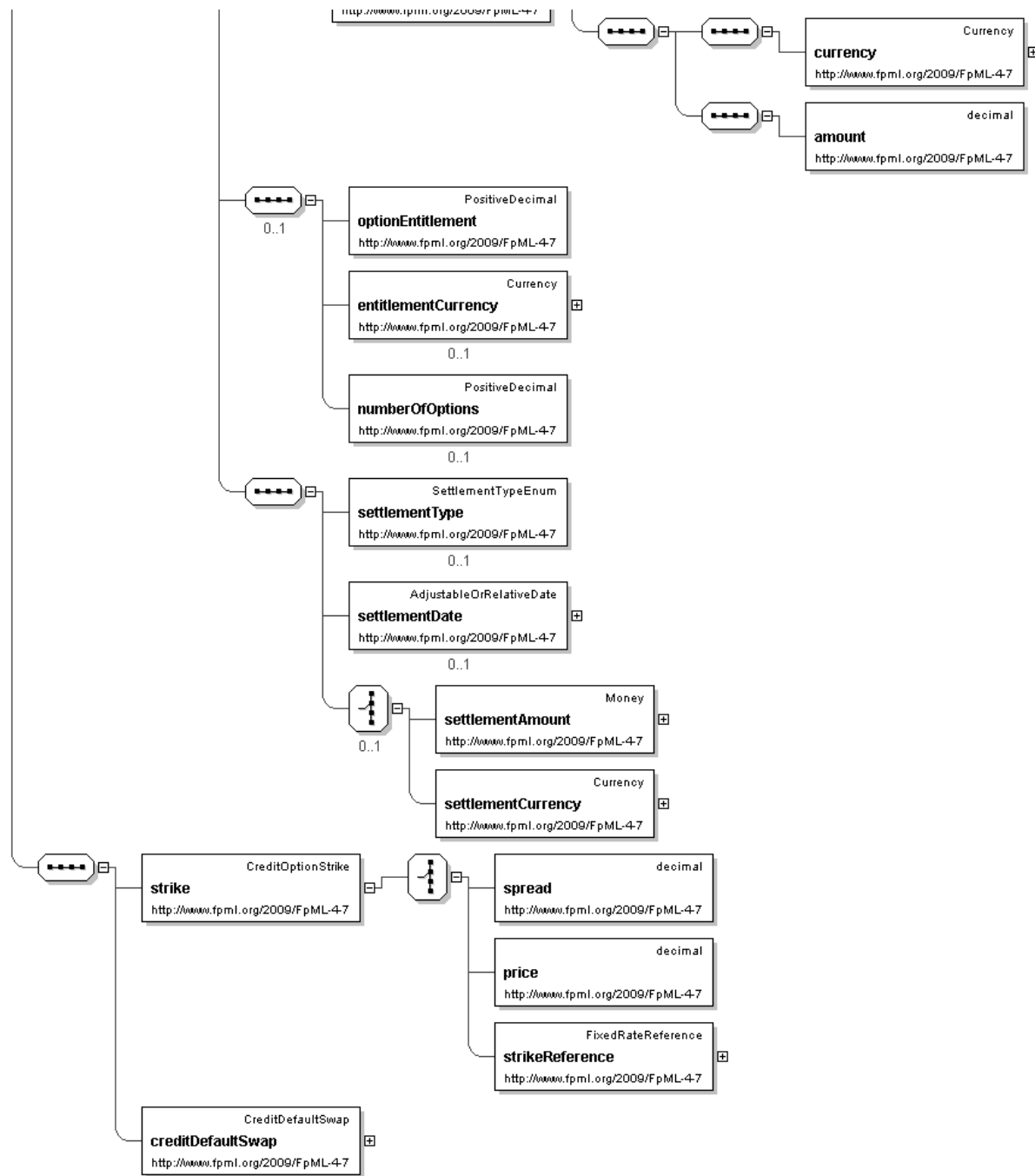
Name	creditDefaultSwapOption
Type	<a href="#">CreditDefaultSwapOption</a>
Nilable	no
Abstract	no
Documentation	An option on a credit default swap.

Logical Diagram









#### XML Instance Representation

```
<creditDefaultSwapOption
  id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
```



<productId> [ProductId](#) </productId> [0..\*]

'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

<buyerPartyReference> [PartyOrTradeSideReference](#) </buyerPartyReference> [1]

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

<optionType> [OptionTypeEnum](#) </optionType> [1]

'The type of option transaction. From a usage standpoint, put/call is the default option type, while payer/receiver indicator is used for options index credit default swaps, consistently with the industry practice. Straddle is used for the case of straddle strategy, that combine a call and a put with the same strike.'

<premium> [Premium](#) </premium> [0..1]

'The option premium payable by the buyer to the seller.'

<exercise> ... </exercise> [1]

<exerciseProcedure> [ExerciseProcedure](#) </exerciseProcedure> [1]

'A set of parameters defining procedures associated with the exercise.'

<feature> [OptionFeature](#) </feature> [0..1]

'An Option feature such as quanto, asian, barrier, knock.'

Start [Choice](#) [0..1]

'A choice between an explicit representation of the notional amount, or a reference to a notional amount defined elsewhere in this document.'

<notionalReference> [NotionalAmountReference](#) </notionalReference> [1]

<notionalAmount> [Money](#) </notionalAmount> [1]

End Choice

Start Group: [OptionDenomination.model](#) [0..1]

<optionEntitlement> [PositiveDecimal](#) </optionEntitlement> [1]

'The number of units of underlying per option comprised in the option transaction.'

<entitlementCurrency> [Currency](#) </entitlementCurrency> [0..1]

'TODO'

<numberOfOptions> [PositiveDecimal](#) </numberOfOptions> [0..1]

'The number of options comprised in the option transaction.'

End Group: [OptionDenomination.model](#)

<settlementType> [SettlementTypeEnum](#) </settlementType> [0..1]

<settlementDate> [AdjustableOrRelativeDate](#) </settlementDate> [0..1]

Start Group: [SettlementAmountOrCurrency.model](#) [0..1]

Start [Choice](#) [1]

<settlementAmount> [Money](#) </settlementAmount> [1]

'Settlement Amount'

<settlementCurrency> [Currency](#) </settlementCurrency> [1]

'Settlement Currency for use where the Settlement Amount cannot be known in advance'

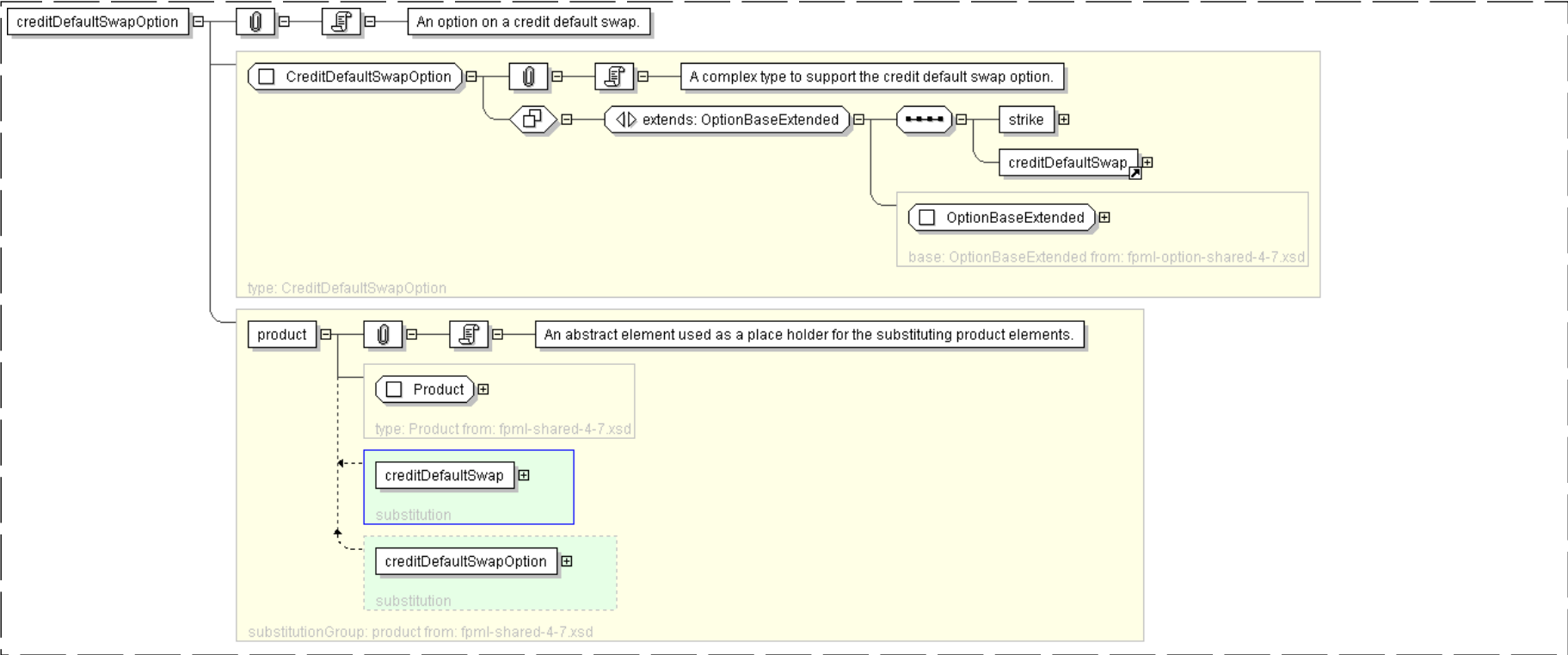
End Choice

End Group: [SettlementAmountOrCurrency.model](#)

```
<strike> CreditOptionStrike </strike> [1]
'Specifies the strike of the option on credit default swap.'

<creditDefaultSwap> ... </creditDefaultSwap> [1]
</creditDefaultSwapOption>
```

Diagram



Schema Component Representation

```
<xsd:element name="creditDefaultSwapOption" type=" CreditDefaultSwapOption
" substitutionGroup="product"/>
```

[top](#)

Global Definitions

Complex Type: **AdditionalFixedPayments**

Super-types:	None
Sub-types:	None
Name	AdditionalFixedPayments
Used by (from the same schema document)	Complex Type <a href="#">FloatingAmountEvents</a>
Abstract	no

XML Instance Representation

```
<...>
<interestShortfallReimbursement> Empty </interestShortfallReimbursement> [0..1]
'An additional Fixed Payment Event. Corresponds to the payment by or on behalf of the Issuer'
```

of an actual interest amount in respect to the reference obligation that is greater than the expected interest amount. ISDA 2003 Term: Interest Shortfall Reimbursement.'

<principalShortfallReimbursement> Empty </principalShortfallReimbursement> [0..1]

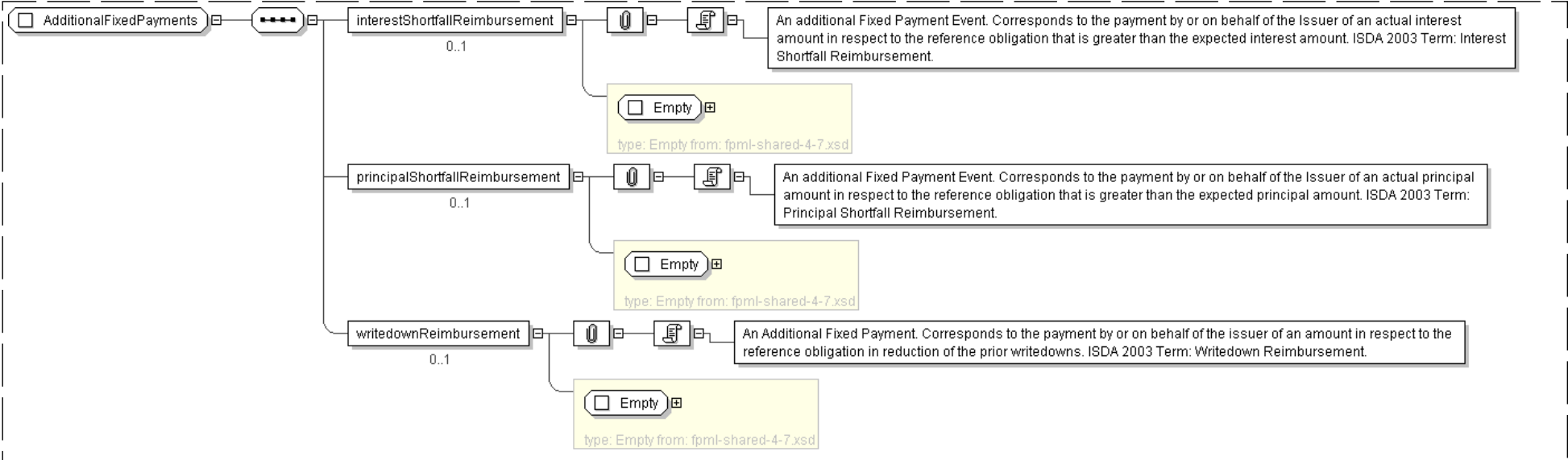
'An additional Fixed Payment Event. Corresponds to the payment by or on behalf of the Issuer of an actual principal amount in respect to the reference obligation that is greater than the expected principal amount. ISDA 2003 Term: Principal Shortfall Reimbursement.'

<writedownReimbursement> Empty </writedownReimbursement> [0..1]

'An Additional Fixed Payment. Corresponds to the payment by or on behalf of the issuer of an amount in respect to the reference obligation in reduction of the prior writedowns. ISDA 2003 Term: Writedown Reimbursement.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AdditionalFixedPayments">
  <xsd:sequence>
    <xsd:element name="interestShortfallReimbursement" type="Empty" minOccurs="0"/>
    <xsd:element name="principalShortfallReimbursement" type="Empty" minOccurs="0"/>
    <xsd:element name="writedownReimbursement" type="Empty" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **AdditionalTerm**

Super-types:	<a href="#">Scheme</a> < <b>AdditionalTerm</b> (by extension)
Sub-types:	None

Name	AdditionalTerm
Used by (from the same schema document)	Complex Type <a href="#">GeneralTerms</a>
Abstract	no

XML Instance Representation

```
<...  
  additionalTermScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdditionalTerm">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="additionalTermScheme" type=" xsd:anyURI "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **AdjustedPaymentDates**

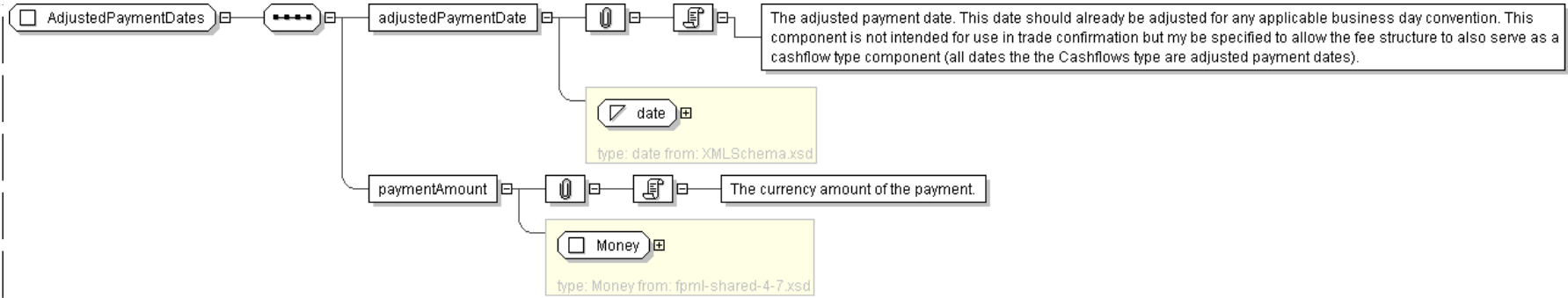
Super-types:	None
Sub-types:	None

Name	AdjustedPaymentDates
Used by (from the same schema document)	Complex Type <a href="#">PeriodicPayment</a>
Abstract	no

XML Instance Representation

```
<...>  
  <adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]  
  'The adjusted payment date. This date should already be adjusted for any applicable  
  business day convention. This component is not intended for use in trade confirmation but my  
  be specified to allow the fee structure to also serve as a cashflow type component (all  
  dates the the Cashflows type are adjusted payment dates).'  <paymentAmount> Money </paymentAmount> [1]  
  'The currency amount of the payment.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustedPaymentDates">
  <xsd:sequence>
    <xsd:element name="adjustedPaymentDate" type="xsd:date"/>
    <xsd:element name="paymentAmount" type="Money"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **BasketReferenceInformation**

Super-types:	None
Sub-types:	None
Name	BasketReferenceInformation
Used by (from the same schema document)	Complex Type <a href="#">GeneralTerms</a>
Abstract	no
Documentation	CDS Basket Reference Information

XML Instance Representation

```
<...>
Start Group: BasketIdentifier.model [0..1]
  'Reuses the group that specifies a name and an identifier for a given basket.'

Start Choice [1]
  <basketName> BasketName </basketName> [1]
  'The name of the basket expressed as a free format string. FpML does not define usage rules for this element.'

  <basketId> BasketId </basketId> [0..*]
  'A CDS basket identifier'

  <basketId> BasketId </basketId> [1..*]
  'A CDS basket identifier'

End Choice
End Group: BasketIdentifier.model

<referencePool> ReferencePool </referencePool> [1]
  'This element contains all the reference pool items to define the reference entity and reference obligation(s) in the basket'

Start Choice [0..1]
  <nthToDefault> xsd:positiveInteger </nthToDefault> [1]
  'N th reference obligation to default triggers payout.'
```

```
<nthToDefault> xsd:positiveInteger </nthToDefault> [0..1]
```

'M<sup>th</sup> reference obligation to default to allow representation of N<sup>th</sup> to M<sup>th</sup> defaults.'

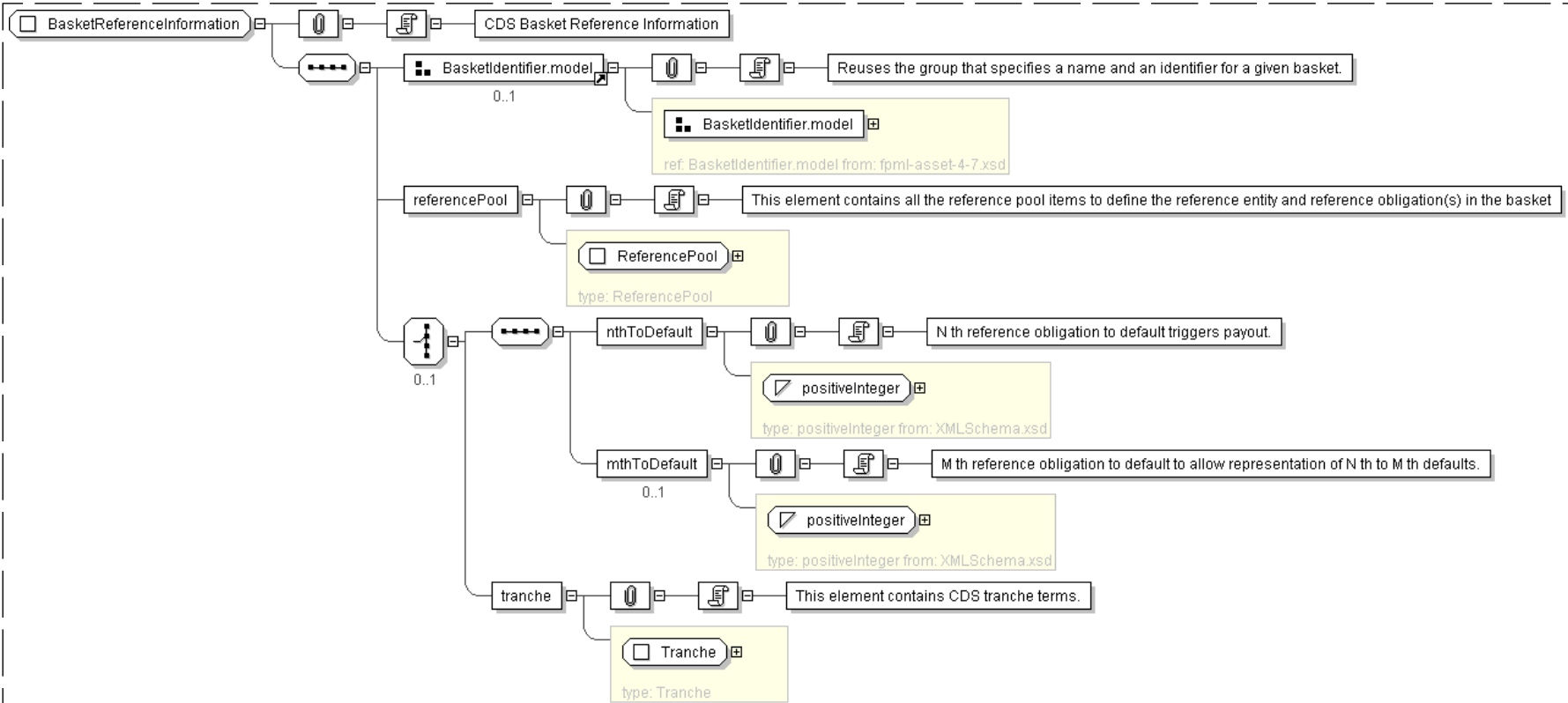
```
<tranche> Tranche </tranche> [1]
```

'This element contains CDS tranche terms.'

End Choice

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="BasketReferenceInformation">
  <xsd:sequence>
    <xsd:group ref="BasketIdentifier.model" minOccurs="0"/>
    <xsd:element name="referencePool" type="ReferencePool" />
    <xsd:choice minOccurs="0">
      <xsd:sequence>
        <xsd:element name="nthToDefault" type="xsd:positiveInteger" />
        <xsd:element name="mthToDefault" type="xsd:positiveInteger" minOccurs="0"/>
      </xsd:sequence>
      <xsd:element name="tranche" type="Tranche" />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: CalculationAmount

Super-types:	<a href="#">Money</a> < <b>CalculationAmount</b> (by extension)
Sub-types:	None
Name	CalculationAmount
Used by (from the same schema document)	Complex Type <a href="#">FixedAmountCalculation</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

  <amount> xsd:decimal </amount> [1]
  'The monetary quantity in currency units.'

  <step> Step </step> [0..*]
  'A schedule of step date and value pairs. On each step date the associated step value
  becomes effective. A list of steps may be ordered in the document by ascending step date.
  An FpML document containing an unordered list of steps is still regarded as a
  conformant document.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationAmount">
  <xsd:complexContent>
    <xsd:extension base=" Money ">
      <xsd:sequence>
        <xsd:element name="step" type=" Step " minOccurs="0" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: CashSettlementTerms

Super-types:	<a href="#">SettlementTerms</a> < <b>CashSettlementTerms</b> (by extension)
Sub-types:	None
Name	CashSettlementTerms
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwap</a>
Abstract	no

XML Instance Representation

```
<...

```

```

id=" xsd:ID [0..1]">
  <settlementCurrency> Currency </settlementCurrency> [0..1]

  'ISDA 2003 Term: Settlement Currency'

  <valuationDate> ValuationDate </valuationDate> [0..1]

  'The number of business days after conditions to settlement have been satisfied when
  the calculation agent obtains a price quotation on the Reference Obligation for purposes
  of cash settlement. There may be one or more valuation dates. This is typically specified
  if the cash settlement amount is not a fixed amount. ISDA 2003 Term: Valuation Date'

  <valuationTime> BusinessCenterTime </valuationTime> [0..1]

  'The time of day in the specified business center when the calculation agent seeks
  quotations for an amount of the reference obligation for purposes of cash settlement. ISDA
  2003 Term: Valuation Time'

  <quotationMethod> QuotationRateTypeEnum </quotationMethod> [0..1]

  'The type of price quotations to be requested from dealers when determining the market value
  of the reference obligation for purposes of cash settlement. For example, Bid, Offer or
  Mid-market. ISDA 2003 Term: Quotation Method'

  <quotationAmount> Money </quotationAmount> [0..1]

  'In the determination of a cash settlement amount, if weighted average quotations are to
  be obtained, the quotation amount specifies an upper limit to the outstanding principal
  balance of the reference obligation for which the quote should be obtained. If not
  specified, the ISDA definitions provide for a fallback amount equal to the floating rate
  payer calculation amount. ISDA 2003 Term: Quotation Amount'

  <minimumQuotationAmount> Money </minimumQuotationAmount> [0..1]

  'In the determination of a cash settlement amount, if weighted average quotations are to
  be obtained, the minimum quotation amount specifies a minimum intended threshold amount
  of outstanding principal balance of the reference obligation for which the quote should
  be obtained. If not specified, the ISDA definitions provide for a fallback amount of the
  lower of either USD 1,000,000 (or its equivalent in the relevant obligation currency) or
  the quotation amount. ISDA 2003 Term: Minimum Quotation Amount'

  <dealer> xsd:string </dealer> [0..*]

  'A dealer from whom quotations are obtained by the calculation agent on the
  reference obligation for purposes of cash settlement. ISDA 2003 Term: Dealer'

  <cashSettlementBusinessDays> xsd:nonNegativeInteger </cashSettlementBusinessDays> [0..1]

  'The number of business days used in the determination of the cash settlement payment date.
  If a cash settlement amount is specified, the cash settlement payment date will be this
  number of business days following the calculation of the final price. If a cash
  settlement amount is not specified, the cash settlement payment date will be this number
  of business days after all conditions to settlement are satisfied. ISDA 2003 Term:
  Cash Settlement Date'

Start Group: FixedRecovery.model [0..1]
Start Choice [1]
  <cashSettlementAmount> Money </cashSettlementAmount> [1]

  'The amount paid by the seller to the buyer for cash settlement on the cash settlement date.
  If not otherwise specified, would typically be calculated as 100 (or the Reference Price)
  minus the price of the Reference Obligation (all expressed as a percentage) times Floating
  Rate Payer Calculation Amount. ISDA 2003 Term: Cash Settlement Amount.'

  <recoveryFactor> RestrictedPercentage </recoveryFactor> [1]

  'Used for fixed recovery, specifies the recovery level, determined at contract inception, to
  be applied on a default. Used to calculate the amount paid by the seller to the buyer for
  cash settlement on the cash settlement date. Amount calculation is (1 minus the
  Recovery Factor) multiplied by the Floating Rate Payer Calculation Amount. The currency will
  be derived from the Floating Rate Payer Calculation Amount.'

End Choice
End Group: FixedRecovery.model

  <accruedInterest> xsd:boolean </accruedInterest> [0..1]

  'Indicates whether accrued interest is included (true) or not (false). For cash settlement

```



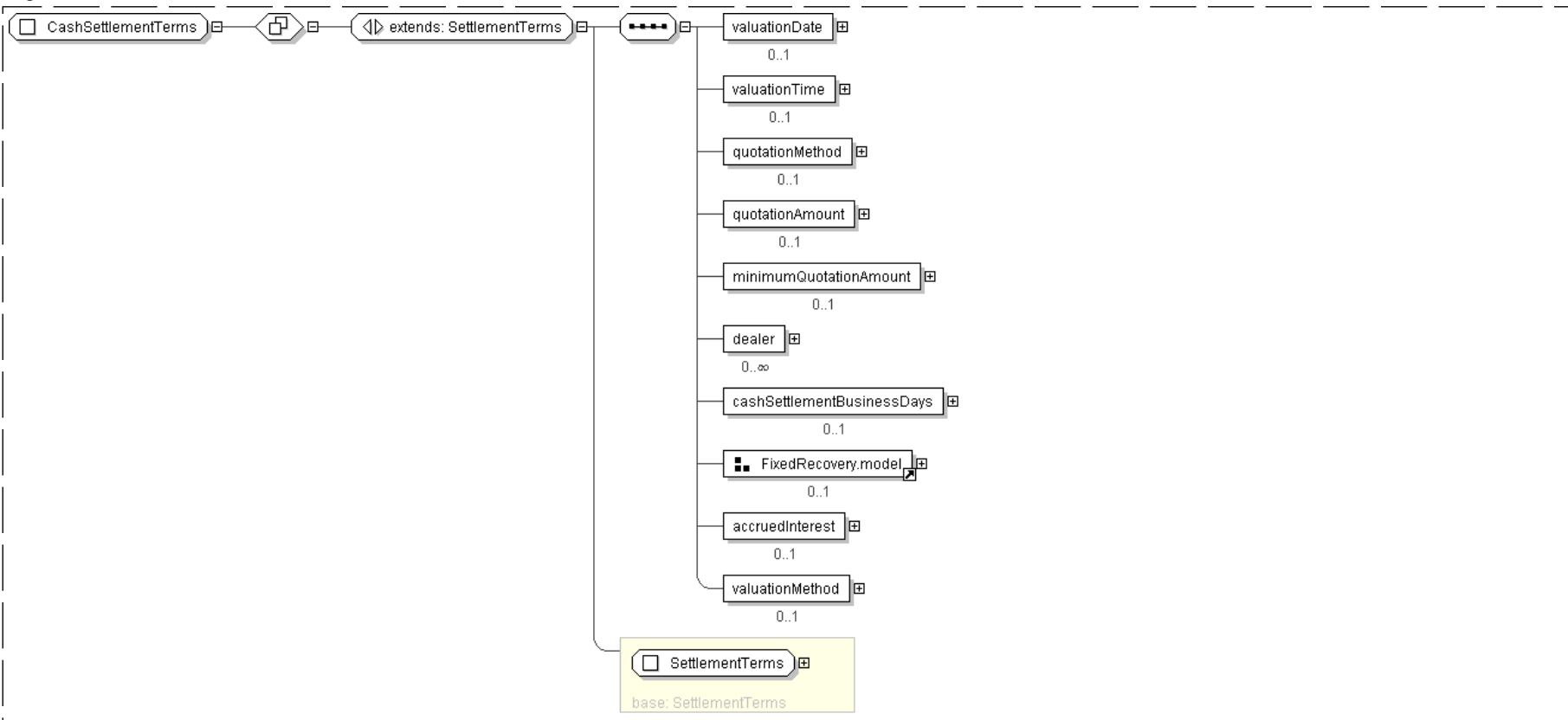
this specifies whether quotations should be obtained inclusive or not of accrued interest.  
For physical settlement this specifies whether the buyer should deliver the obligation with an outstanding principal balance that includes or excludes accrued interest. ISDA 2003  
Term: Include/Exclude Accrued Interest'

```
<valuationMethod> ValuationMethodEnum </valuationMethod> [0..1]
```

'The ISDA defined methodology for determining the final price of the reference obligation for purposes of cash settlement. (ISDA 2003 Term: Valuation Method). For example, Market, Highest etc.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="CashSettlementTerms">
  <xsd:complexContent>
    <xsd:extension base=" SettlementTerms ">
      <xsd:sequence>
        <xsd:element name="valuationDate" type=" ValuationDate " minOccurs="0"/>
        <xsd:element name="valuationTime" type=" BusinessCenterTime " minOccurs="0"/>
        <xsd:element name="quotationMethod" type=" QuotationRateTypeEnum " minOccurs="0"/>
        <xsd:element name="quotationAmount" type=" Money " minOccurs="0"/>
        <xsd:element name="minimumQuotationAmount" type=" Money " minOccurs="0"/>
        <xsd:element name="dealer" type=" xsd:string " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="cashSettlementBusinessDays" type=" xsd:nonNegativeInteger " minOccurs="0"/>
        <xsd:group ref=" FixedRecovery.model " minOccurs="0"/>
        <xsd:element name="accruedInterest" type=" xsd:boolean " minOccurs="0"/>
        <xsd:element name="valuationMethod" type=" ValuationMethodEnum " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **CreditDefaultSwap**

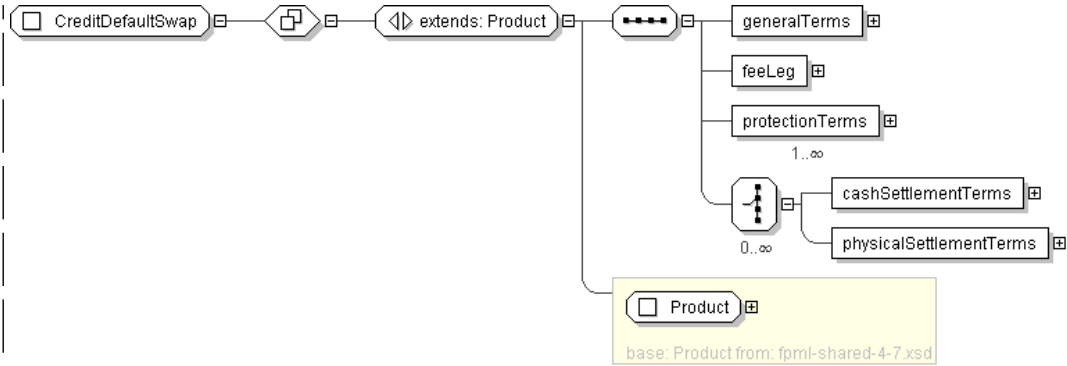
Super-types:	<a href="#">Product</a> < <b>CreditDefaultSwap</b> (by extension)
Sub-types:	None

Name	CreditDefaultSwap
Used by (from the same schema document)	Element <a href="#">creditDefaultSwap</a>
Abstract	no

XML Instance Representation

<... id=" <a href="#">xsd:ID</a> [0..1]*"> <productType> <a href="#">ProductType</a> </productType> [0..*]  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'  <productId> <a href="#">ProductId</a> </productId> [0..*]  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'  <generalTerms> <a href="#">GeneralTerms</a> </generalTerms> [1]  'This element contains all the data that appears in the section entitled \"1. General Terms\" in the 2003 ISDA Credit Derivatives Confirmation.'  <feeLeg> <a href="#">FeeLeg</a> </feeLeg> [1]  'This element contains all the terms relevant to defining the fixed amounts/payments per the applicable ISDA definitions.'  <protectionTerms> <a href="#">ProtectionTerms</a> </protectionTerms> [1..*]  'This element contains all the terms relevant to defining the applicable floating rate payer calculation amount, credit events and associated conditions to settlement, and reference obligations.'  Start <a href="#">Choice</a> [0..*] <cashSettlementTerms> <a href="#">CashSettlementTerms</a> </cashSettlementTerms> [1] 'This element contains all the ISDA terms relevant to cash settlement for when cash settlement is applicable. ISDA 2003 Term: Cash Settlement'  <physicalSettlementTerms> <a href="#">PhysicalSettlementTerms</a> </physicalSettlementTerms> [1] 'This element contains all the ISDA terms relevant to physical settlement for when physical settlement is applicable. ISDA 2003 Term: Physical Settlement'  End Choice </...>	
---	--

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditDefaultSwap">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:element name="generalTerms" type=" GeneralTerms " />
        <xsd:element name="feeLeg" type=" FeeLeg " />
        <xsd:element name="protectionTerms" type=" ProtectionTerms " maxOccurs="unbounded" />
        <xsd:choice minOccurs="0" maxOccurs="unbounded">
          <xsd:element name="cashSettlementTerms" type=" CashSettlementTerms " />
          <xsd:element name="physicalSettlementTerms" type=" PhysicalSettlementTerms " />
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: CreditDefaultSwapOption

Super-types:	<a href="#">OptionBaseExtended</a> < <b>CreditDefaultSwapOption</b> (by extension)
Sub-types:	None
Name	CreditDefaultSwapOption
Used by (from the same schema document)	Element <a href="#">creditDefaultSwapOption</a>
Abstract	no
Documentation	A complex type to support the credit default swap option.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'
```

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

*'A reference to the party that sells (\\"writes\\") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'*

<optionType> [OptionTypeEnum](#) </optionType> [1]

*'The type of option transaction. From a usage standpoint, put/call is the default option type, while payer/receiver indicator is used for options index credit default swaps, consistently with the industry practice. Straddle is used for the case of straddle strategy, that combine a call and a put with the same strike.'*

<premium> [Premium](#) </premium> [0..1]

*'The option premium payable by the buyer to the seller.'*

<exercise> ... </exercise> [1]

<exerciseProcedure> [ExerciseProcedure](#) </exerciseProcedure> [1]

*'A set of parameters defining procedures associated with the exercise.'*

<feature> [OptionFeature](#) </feature> [0..1]

*'An Option feature such as quanto, asian, barrier, knock.'*

Start [Choice](#) [0..1]

*'A choice between an explicit representation of the notional amount, or a reference to a notional amount defined elsewhere in this document.'*

<notionalReference> [NotionalAmountReference](#) </notionalReference> [1]

<notionalAmount> [Money](#) </notionalAmount> [1]

End Choice

Start Group: [OptionDenomination.model](#) [0..1]

<optionEntitlement> [PositiveDecimal](#) </optionEntitlement> [1]

*'The number of units of underlying per option comprised in the option transaction.'*

<entitlementCurrency> [Currency](#) </entitlementCurrency> [0..1]

*'TODO'*

<numberOfOptions> [PositiveDecimal](#) </numberOfOptions> [0..1]

*'The number of options comprised in the option transaction.'*

End Group: [OptionDenomination.model](#)

<settlementType> [SettlementTypeEnum](#) </settlementType> [0..1]

<settlementDate> [AdjustableOrRelativeDate](#) </settlementDate> [0..1]

Start Group: [SettlementAmountOrCurrency.model](#) [0..1]

Start [Choice](#) [1]

<settlementAmount> [Money](#) </settlementAmount> [1]

*'Settlement Amount'*

<settlementCurrency> [Currency](#) </settlementCurrency> [1]

*'Settlement Currency for use where the Settlement Amount cannot be known in advance'*

End Choice

End Group: [SettlementAmountOrCurrency.model](#)

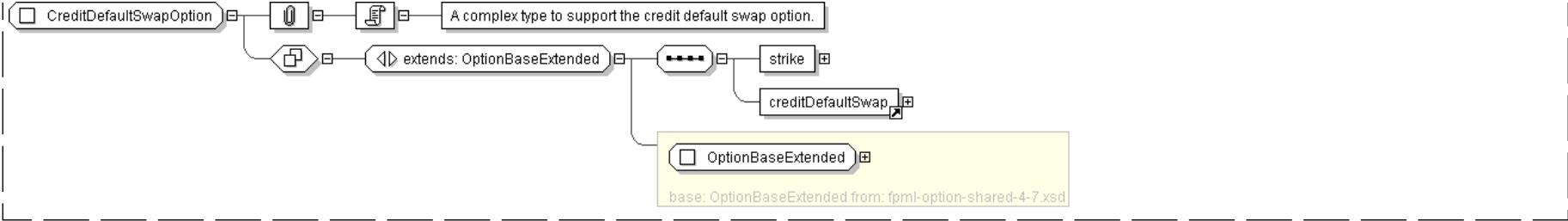
<strike> [CreditOptionStrike](#) </strike> [1]

*'Specifies the strike of the option on credit default swap.'*

<creditDefaultSwap> ... </creditDefaultSwap> [1]

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditDefaultSwapOption">
  <xsd:complexContent>
    <xsd:extension base="OptionBaseExtended">
      <xsd:sequence>
        <xsd:element name="strike" type="CreditOptionStrike"/>
        <xsd:element ref="creditDefaultSwap"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: CreditOptionStrike

Super-types:	None
Sub-types:	None
Name	CreditOptionStrike
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwapOption</a>
Abstract	no
Documentation	A complex type to specify the strike of a credit swaption or a credit default swap option.

XML Instance Representation

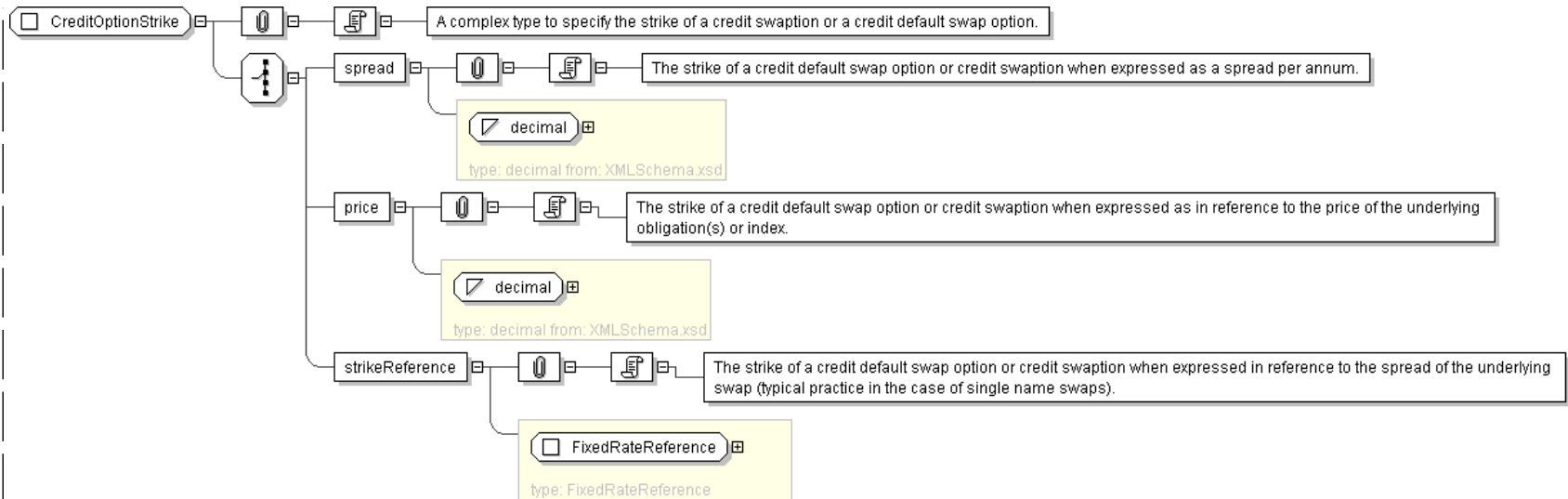
```
<...>
Start Choice [1]
  <spread> xsd:decimal </spread> [1]
  'The strike of a credit default swap option or credit swaption when expressed as a spread per annum.'

  <price> xsd:decimal </price> [1]
  'The strike of a credit default swap option or credit swaption when expressed as in reference to the price of the underlying obligation(s) or index.'

  <strikeReference> FixedRateReference </strikeReference> [1]
  'The strike of a credit default swap option or credit swaption when expressed in reference to the spread of the underlying swap (typical practice in the case of single name swaps).'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditOptionStrike">
  <xsd:choice>
    <xsd:element name="spread" type="xsd:decimal" />
    <xsd:element name="price" type="xsd:decimal" />
    <xsd:element name="strikeReference" type="FixedRateReference" />
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: DeliverableObligations

Super-types:	None
Sub-types:	None
Name	DeliverableObligations
Used by (from the same schema document)	Complex Type <a href="#">PhysicalSettlementTerms</a>
Abstract	no

XML Instance Representation

```
<...>
<accruedInterest> xsd:boolean </accruedInterest> [0..1]

'Indicates whether accrued interest is included (true) or not (false). For cash settlement
this specifies whether quotations should be obtained inclusive or not of accrued interest.
For physical settlement this specifies whether the buyer should deliver the obligation with
an outstanding principal balance that includes or excludes accrued interest. ISDA 2003
Term: Include/Exclude Accrued Interest'

<category> ObligationCategoryEnum </category> [0..1]

'Used in both obligations and deliverable obligations to represent a class or type
of securities which apply. ISDA 2003 Term: Obligation Category/Deliverable Obligation Category'

<notSubordinated> Empty </notSubordinated> [0..1]

'An obligation and deliverable obligation characteristic. An obligation that ranks at
least equal with the most senior Reference Obligation in priority of payment or, if
no Reference Obligation is specified in the related Confirmation, the obligations of
the Reference Entity that are senior. ISDA 2003 Term: Not Subordinated'
```

<specifiedCurrency> [SpecifiedCurrency](#) </specifiedCurrency> [0..1]

'An obligation and deliverable obligation characteristic. The currency or currencies in which an obligation or deliverable obligation must be payable. ISDA 2003 Term: Specified Currency'

<notSovereignLender> [Empty](#) </notSovereignLender> [0..1]

'An obligation and deliverable obligation characteristic. Any obligation that is not primarily (majority) owed to a Sovereign or Supranational Organization. ISDA 2003 Term: Not Sovereign Lender'

<notDomesticCurrency> [NotDomesticCurrency](#) </notDomesticCurrency> [0..1]

'An obligation and deliverable obligation characteristic. Any obligation that is payable in any currency other than the domestic currency. Domestic currency is either the currency so specified or, if no currency is specified, the currency of (a) the reference entity, if the reference entity is a sovereign, or (b) the jurisdiction in which the relevant reference entity is organised, if the reference entity is not a sovereign. ISDA 2003 Term: Not Domestic Currency'

<notDomesticLaw> [Empty](#) </notDomesticLaw> [0..1]

'An obligation and deliverable obligation characteristic. If the reference entity is a Sovereign, this means any obligation that is not subject to the laws of the reference entity. If the reference entity is not a sovereign, this means any obligation that is not subject to the laws of the jurisdiction of the reference entity. ISDA 2003 Term: Not Domestic Law'

<listed> [Empty](#) </listed> [0..1]

'An obligation and deliverable obligation characteristic. Indicates whether or not the obligation is quoted, listed or ordinarily purchased and sold on an exchange. ISDA 2003 Term: Listed'

<notContingent> [Empty](#) </notContingent> [0..1]

'A deliverable obligation characteristic. In essence Not Contingent means the repayment of principal cannot be dependant on a formula/index, i.e. to prevent the risk of being delivered an instrument that may never pay any element of principal, and to ensure that the obligation is interest bearing (on a regular schedule). ISDA 2003 Term: Not Contingent'

<notDomesticIssuance> [Empty](#) </notDomesticIssuance> [0..1]

'An obligation and deliverable obligation characteristic. Any obligation other than an obligation that was intended to be offered for sale primarily in the domestic market of the relevant Reference Entity. This specifies that the obligation must be an internationally recognized bond. ISDA 2003 Term: Not Domestic Issuance'

<assignableLoan> [PCDeliverableObligationCharac](#) </assignableLoan> [0..1]

'A deliverable obligation characteristic. A loan that is freely assignable to a bank or financial institution without the consent of the Reference Entity or the guarantor, if any, of the loan (or the consent of the applicable borrower if a Reference Entity is guaranteeing the loan) or any agent. ISDA 2003 Term: Assignable Loan'

<consentRequiredLoan> [PCDeliverableObligationCharac](#) </consentRequiredLoan> [0..1]

'A deliverable obligation characteristic. A loan that is capable of being assigned with the consent of the Reference Entity or the guarantor, if any, of the loan or any agent. ISDA 2003 Term: Consent Required Loan'

<directLoanParticipation> [LoanParticipation](#) </directLoanParticipation> [0..1]

'A deliverable obligation characteristic. A loan with a participation agreement whereby the buyer is capable of creating, or procuring the creation of, a contractual right in favour of the seller that provides the seller with recourse to the participation seller for a specified share in any payments due under the relevant loan which are received by the participation seller. ISDA 2003 Term: Direct Loan Participation'

<transferable> [Empty](#) </transferable> [0..1]

'A deliverable obligation characteristic. An obligation that is transferable to institutional investors without any contractual, statutory or regulatory restrictions. ISDA 2003 Term: Transferable'

<maximumMaturity> [Period](#) </maximumMaturity> [0..1]

'A deliverable obligation characteristic. An obligation that has a remaining maturity from the Physical Settlement Date of not greater than the period specified. ISDA 2003 Term: Maximum Maturity'

<acceleratedOrMatured> [Empty](#) </acceleratedOrMatured> [0..1]  
'A deliverable obligation characteristic. An obligation at time of default is due to mature and due to be repaid, or as a result of downgrade/bankruptcy is due to be repaid as a result of an acceleration clause. ISDA 2003 Term: Accelerated or Matured'

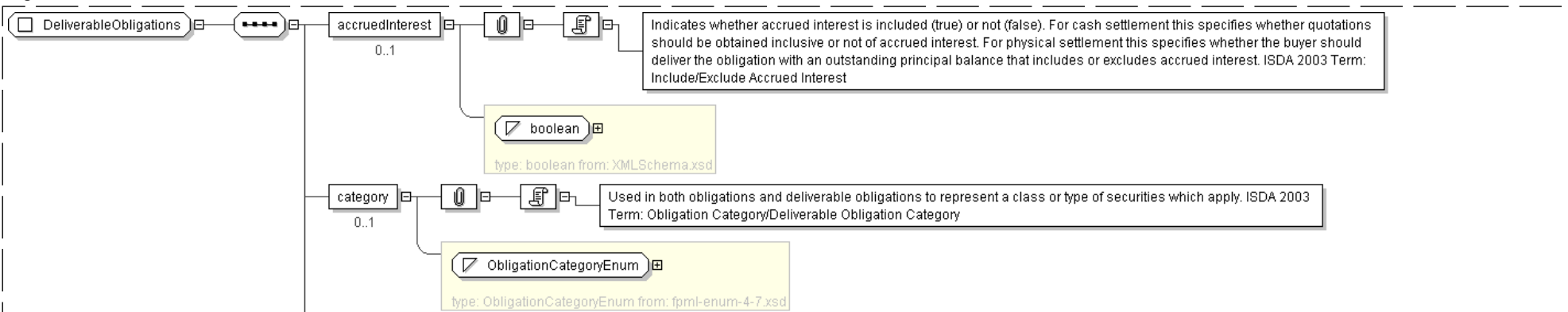
<notBearer> [Empty](#) </notBearer> [0..1]  
'A deliverable obligation characteristic. Any obligation that is not a bearer instrument. This applies to Bonds only and is meant to avoid tax, fraud and security/delivery provisions that can potentially be associated with Bearer Bonds. ISDA 2003 Term: Not Bearer'

Start [Choice](#) [0..1]  
<fullFaithAndCreditObLiability> [Empty](#) </fullFaithAndCreditObLiability> [1]  
'An obligation and deliverable obligation characteristic. Defined in the ISDA published additional provisions for U.S. Municipal as Reference Entity. ISDA 2003 Term: Full Faith and Credit Obligation Liability'  
  
<generalFundObligationLiability> [Empty](#) </generalFundObligationLiability> [1]  
'An obligation and deliverable obligation characteristic. Defined in the ISDA published additional provisions for U.S. Municipal as Reference Entity. ISDA 2003 Term: General Fund Obligation Liability'  
  
<revenueObligationLiability> [Empty](#) </revenueObligationLiability> [1]  
'An obligation and deliverable obligation characteristic. Defined in the ISDA published additional provisions for U.S. Municipal as Reference Entity. ISDA 2003 Term: Revenue Obligation Liability'

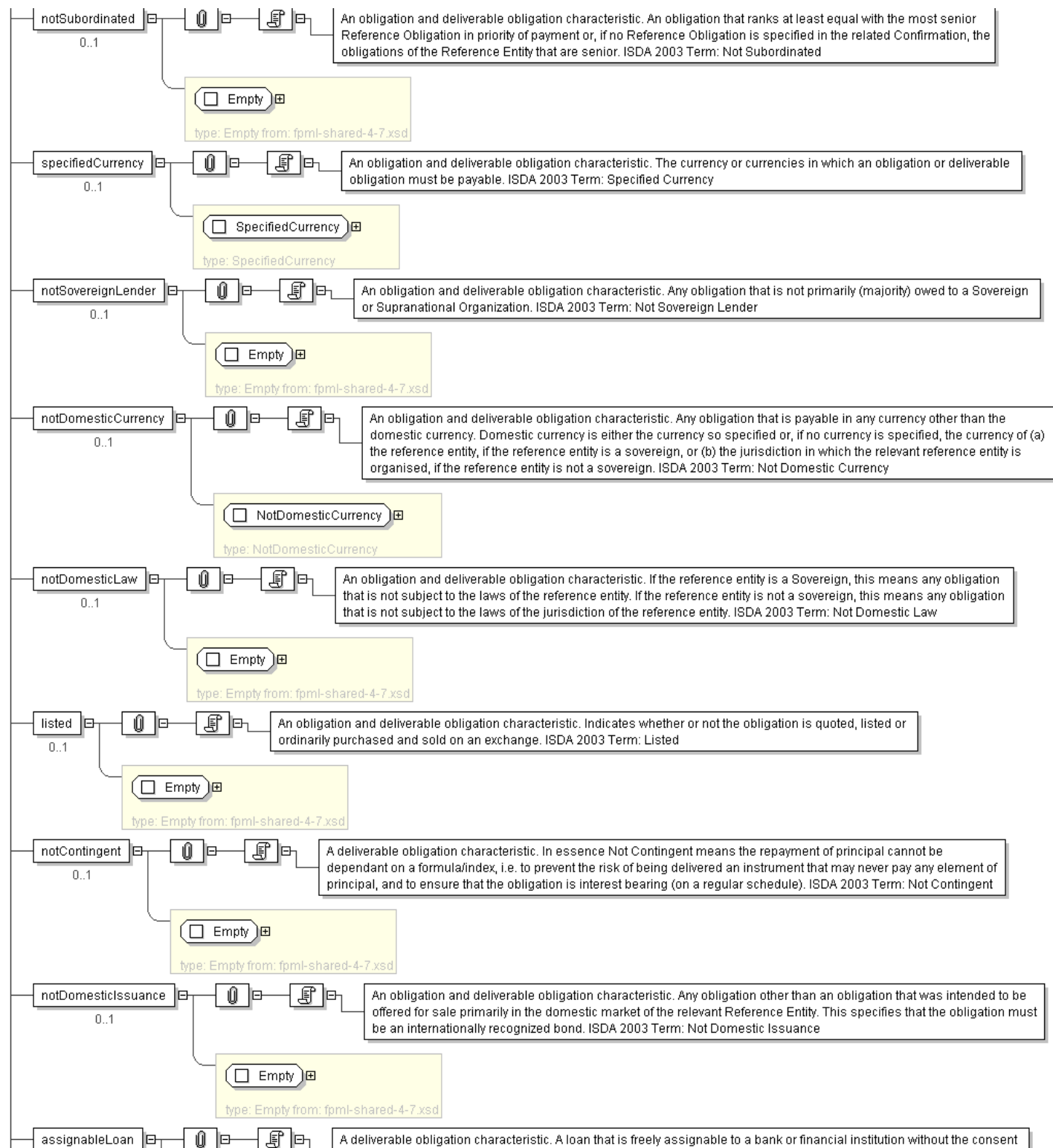
End Choice  
<indirectLoanParticipation> [LoanParticipation](#) </indirectLoanParticipation> [0..1]  
'ISDA 1999 Term: Indirect Loan Participation. NOTE: Only applicable as a deliverable obligation under ISDA Credit 1999.'  
  
<excluded> [xsd:string](#) </excluded> [0..1]  
'A free format string to specify any excluded obligations or deliverable obligations, as the case may be, of the reference entity or excluded types of obligations or deliverable obligations. ISDA 2003 Term: Excluded Obligations/Excluded Deliverable Obligations'  
  
<othReferenceEntityObligations> [xsd:string](#) </othReferenceEntityObligations> [0..1]  
'This element is used to specify any other obligations of a reference entity in both obligations and deliverable obligations. The obligations can be specified free-form. ISDA 2003 Term: Other Obligations of a Reference Entity'

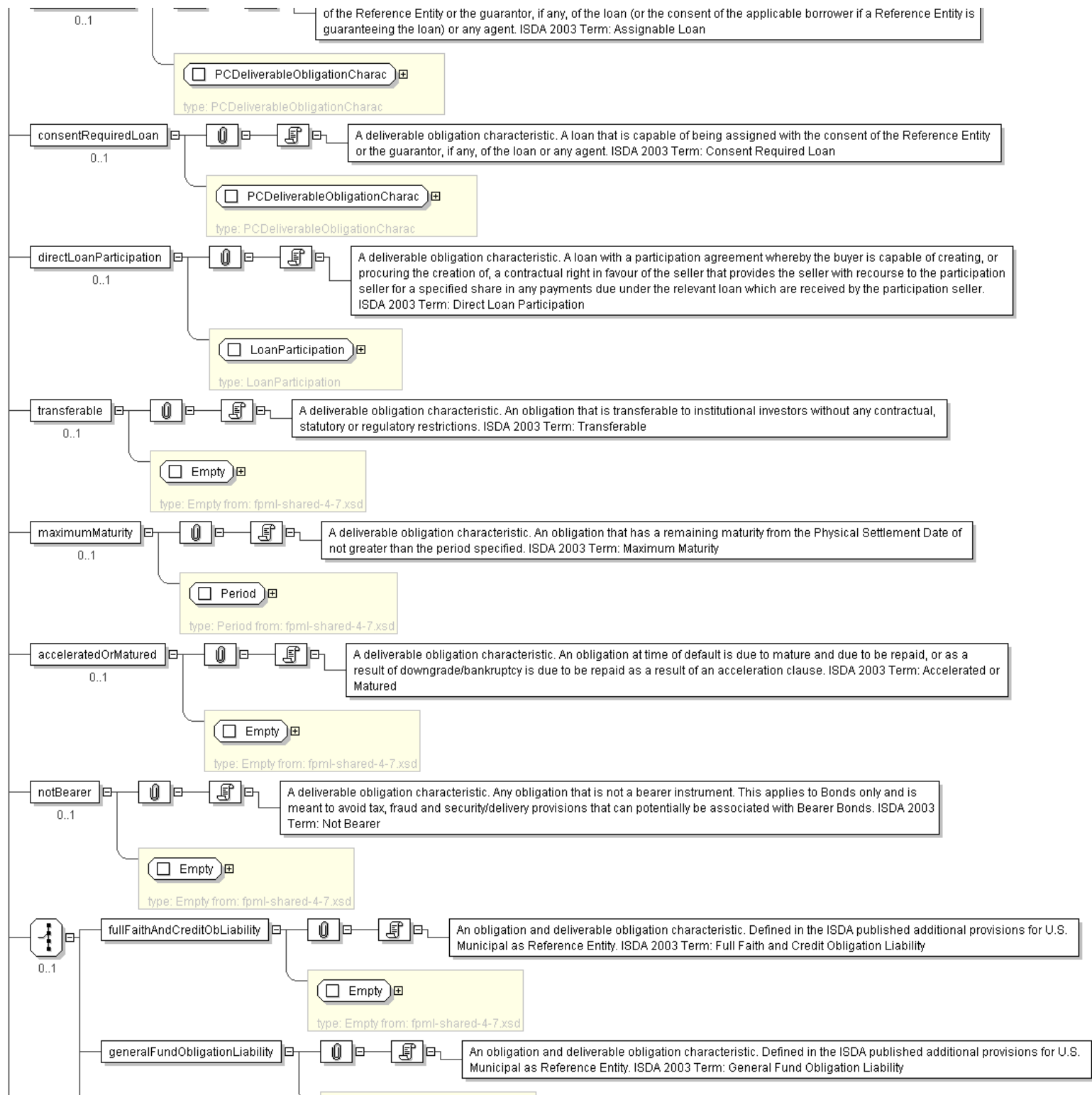
</...>

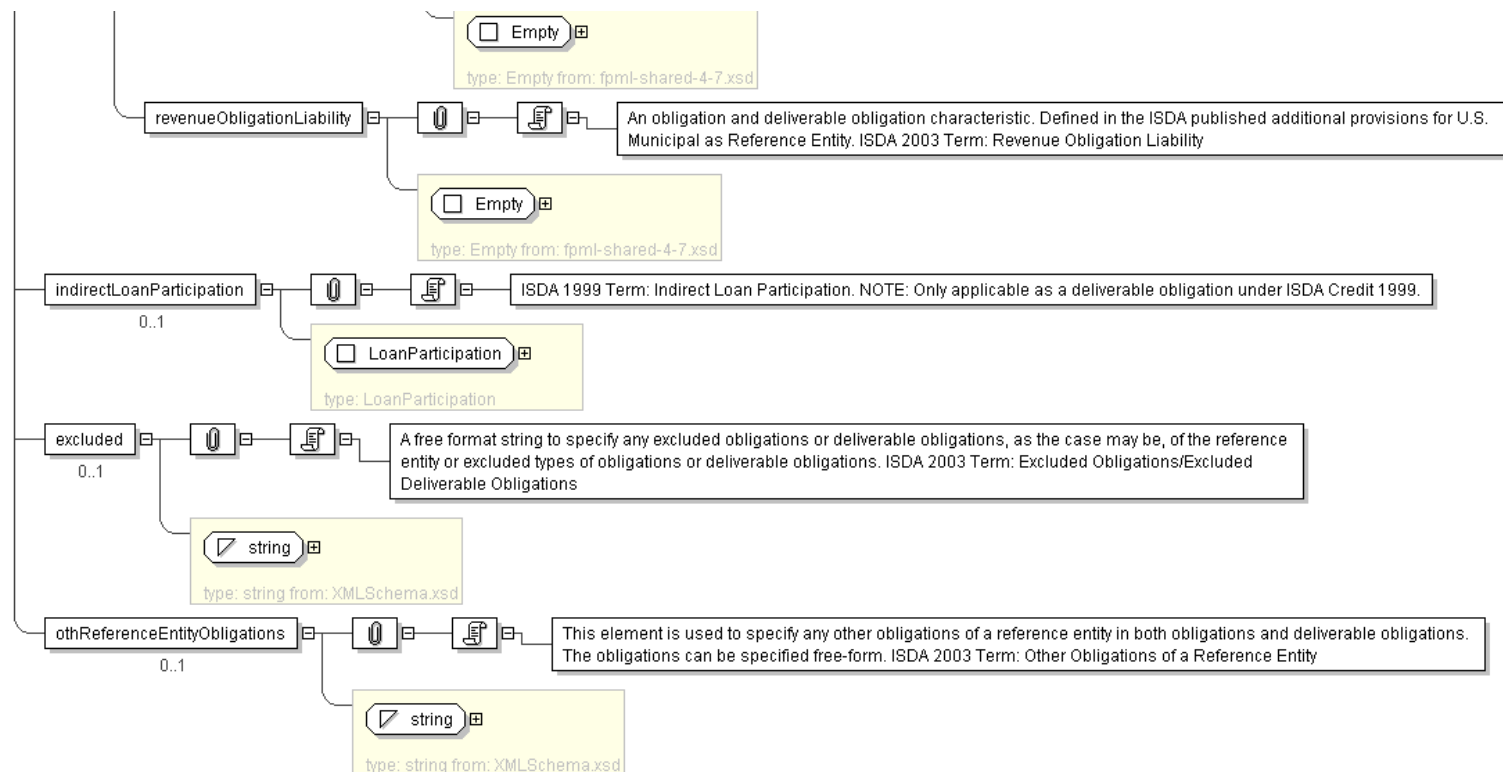
Diagram











### Schema Component Representation

```
<xsd:complexType name="DeliverableObligations">
  <xsd:sequence>
    <xsd:element name="accruedInterest" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="category" type="ObligationCategoryEnum" minOccurs="0"/>
    <xsd:element name="notSubordinated" type="Empty" minOccurs="0"/>
    <xsd:element name="specifiedCurrency" type="SpecifiedCurrency" minOccurs="0"/>
    <xsd:element name="notSovereignLender" type="Empty" minOccurs="0"/>
    <xsd:element name="notDomesticCurrency" type="NotDomesticCurrency" minOccurs="0"/>
    <xsd:element name="notDomesticLaw" type="Empty" minOccurs="0"/>
    <xsd:element name="listed" type="Empty" minOccurs="0"/>
    <xsd:element name="notContingent" type="Empty" minOccurs="0"/>
    <xsd:element name="notDomesticIssuance" type="Empty" minOccurs="0"/>
    <xsd:element name="assignableLoan" type="PCDeliverableObligationCharac" minOccurs="0"/>
    <xsd:element name="consentRequiredLoan" type="PCDeliverableObligationCharac" minOccurs="0"/>
    <xsd:element name="directLoanParticipation" type="LoanParticipation" minOccurs="0"/>
    <xsd:element name="transferable" type="Empty" minOccurs="0"/>
    <xsd:element name="maximumMaturity" type="Period" minOccurs="0"/>
    <xsd:element name="acceleratedOrMatured" type="Empty" minOccurs="0"/>
    <xsd:element name="notBearer" type="Empty" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="fullFaithAndCreditObLiability" type="Empty" />
      <xsd:element name="generalFundObligationLiability" type="Empty" />
      <xsd:element name="revenueObligationLiability" type="Empty" />
    </xsd:choice>
    <xsd:element name="indirectLoanParticipation" type="LoanParticipation" minOccurs="0"/>
    <xsd:element name="excluded" type="xsd:string" minOccurs="0"/>
    <xsd:element name="othReferenceEntityObligations" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **DeprecatedScheduledTerminationDate**

Super-types:	None
Sub-types:	None
Name	DeprecatedScheduledTerminationDate
Used by (from the same schema document)	Complex Type <a href="#">GeneralTerms</a>
Abstract	no
Documentation	DEPRECATED

XML Instance Representation

```
<...>  
  <adjustableDate> AdjustableDate2 </adjustableDate> [1]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DeprecatedScheduledTerminationDate"  
  deprecated="true" deprecatedReason="The intent is to make the scheduledTerminationDate of  
  type AdjustableDate2 and remove the adjustableDate node. The current container doesn't give  
  any value since the choice with relative date was removed.">  
  <xsd:sequence>  
    <xsd:element name="adjustableDate" type=" AdjustableDate2 "/>  
  </xsd:sequence>  
</xsd:complexType>
```

Complex Type: **EntityType**

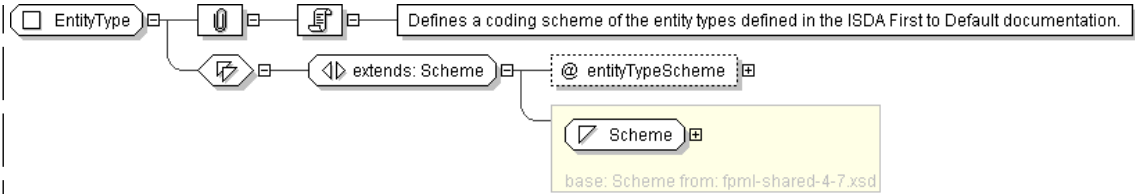
Super-types:	<a href="#">Scheme</a> < <b>EntityType</b> (by extension)
Sub-types:	None
Name	EntityType
Used by (from the same schema document)	Complex Type <a href="#">ReferencePair</a>
Abstract	no
Documentation	Defines a coding scheme of the entity types defined in the ISDA First to Default documentation.

XML Instance Representation

```
<...  
  entityTypeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="EntityType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="entityTypeScheme" type=" xsd:anyURI " default="http://www.fpml.org/
        coding-scheme/entity-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: FeeLeg

Super-types:	<a href="#">Leg</a> < FeeLeg (by extension)
Sub-types:	None

Name	FeeLeg
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwap</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <initialPayment> InitialPayment </initialPayment> [0..1]
  'Specifies a single fixed payment that is payable by the payer to the receiver on the
  initial payment date. The fixed payment to be paid is specified in terms of a known
  currency amount. This element should be used for CDS Index trades and can be used for
  CDS trades where it is necessary to represent a payment from Seller to Buyer. For CDS
  trades where a payment is to be made from Buyer to Seller the feeLeg/singlePayment
  structure must be used.'

  <singlePayment> SinglePayment </singlePayment> [0..*]
  'Specifies a single fixed amount that is payable by the buyer to the seller on the fixed
  rate payer payment date. The fixed amount to be paid is specified in terms of a known
  currency amount.'

  <periodicPayment> PeriodicPayment </periodicPayment> [0..1]
  'Specifies a periodic schedule of fixed amounts that are payable by the buyer to the seller
  on the fixed rate payer payment dates. The fixed amount to be paid on each payment date can
  be specified in terms of a known currency amount or as an amount calculated on a formula
  basis by reference to a per annum fixed rate. The applicable business day convention
  and business day for adjusting any fixed rate payer payment date if it would otherwise fall
  on a day that is not a business day are those specified in the dateAdjustments element
  within the generalTerms component. ISDA 2003 Term:'

  <marketFixedRate> xsd:decimal </marketFixedRate> [0..1]
  'An optional element that only has meaning in a credit index trade. This element contains
  the credit spread (\"fair value\") at which the trade was executed. Unlike the fixedRate of
  an index, the marketFixedRate varies over the life of the index depending on market
  conditions. The marketFixedRate is the price of the index as quoted by trading desks.'

  <paymentDelay> xsd:boolean </paymentDelay> [0..1]
```

'Applicable to CDS on MBS to specify whether payment delays are applicable to the fixed Amount. RMBS typically have a payment delay of 5 days between the coupon date of the reference obligation and the payment date of the synthetic swap. CMBS do not, on the other hand, with both payment dates being on the 25th of each month.'

```
<initialPoints> xsd:decimal </initialPoints> [0..1]
```

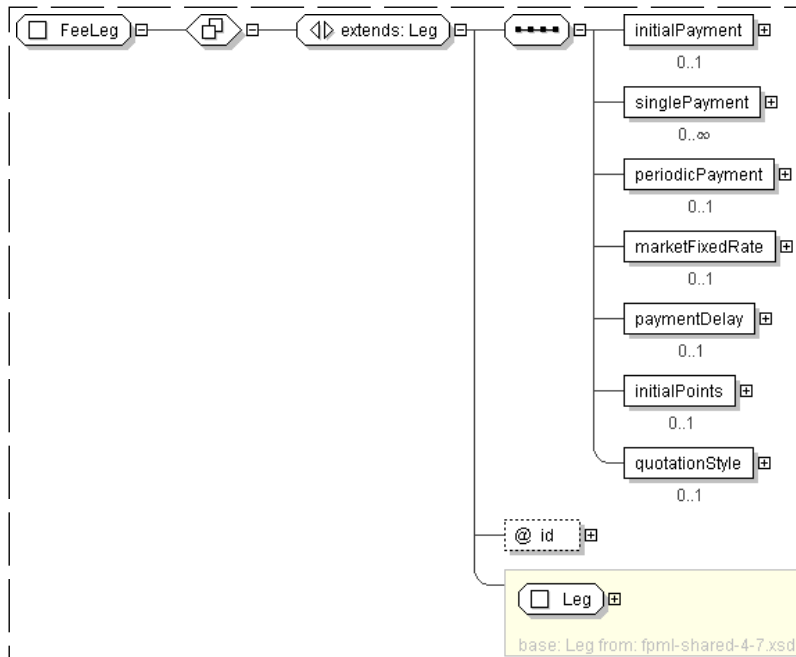
'An optional element that contains the up-front points expressed as a percentage of the notional. An initialPoints value of 5% would be represented as 0.05. The initialPoints element is an alternative to marketFixedRate in quoting the traded level of a trade. The initialPoints is one of the items that are factored into the initialPayment calculation and is payable by the Buyer to the Seller. Note that initialPoints and marketFixedRate may both be present in the same document when both implied values are desired.'

```
<quotationStyle> QuotationStyleEnum </quotationStyle> [0..1]
```

'The type of quotation that was used between the trading desks. The purpose of this element is to indicate the actual quotation style that was used to quote this trade which may not be apparent when both marketFixedRate and initialPoints are included in the document. When quotationStyle is 'PointsUpFront', the initialPoints element should be populated. When quotationStyle is 'TradedSpread', the marketFixedRate element should be populated.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="FeeLeg">
  <xsd:complexContent>
    <xsd:extension base="Leg" />
    <xsd:sequence>
      <xsd:element name="initialPayment" type="InitialPayment" minOccurs="0"/>
      <xsd:element name="singlePayment" type="SinglePayment" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element name="periodicPayment" type="PeriodicPayment" minOccurs="0"/>
      <xsd:element name="marketFixedRate" type="xsd:decimal" minOccurs="0"/>
      <xsd:element name="paymentDelay" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="initialPoints" type="xsd:decimal" minOccurs="0"/>
      <xsd:element name="quotationStyle" type="QuotationStyleEnum" minOccurs="0"/>
    
```

```
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID " use="optional"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **FixedAmountCalculation**

Super-types:	None
Sub-types:	None
Name	FixedAmountCalculation
Used by (from the same schema document)	Complex Type <a href="#">PeriodicPayment</a>
Abstract	no

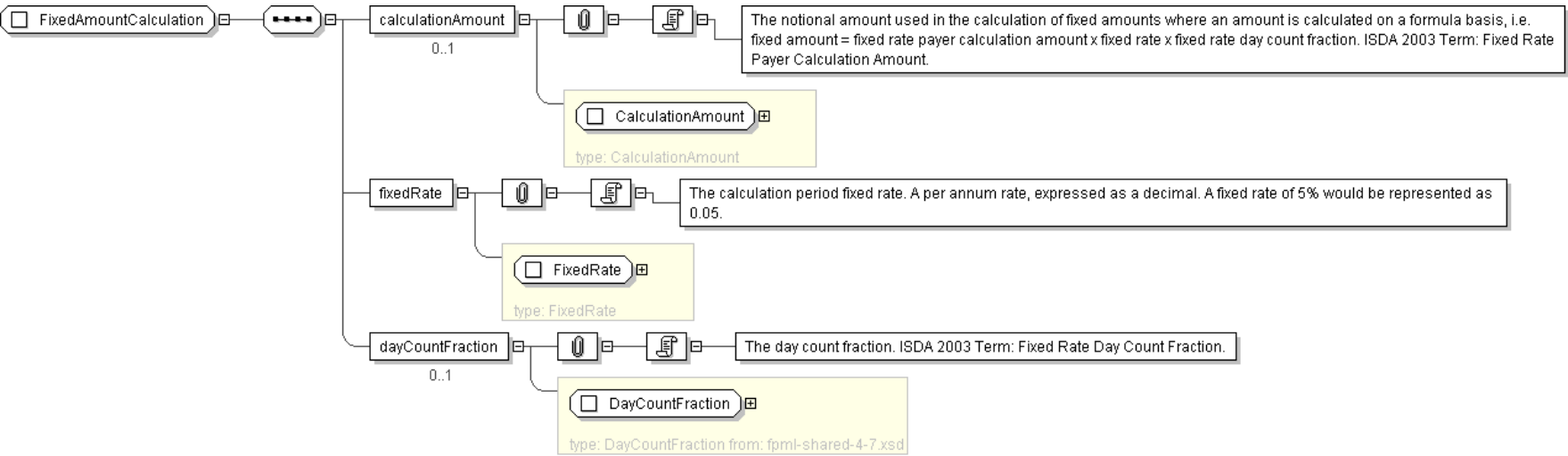
XML Instance Representation

```
<...>
<calculationAmount> CalculationAmount </calculationAmount> [0..1]
'The notional amount used in the calculation of fixed amounts where an amount is calculated on a formula basis, i.e. fixed amount = fixed rate payer calculation amount x fixed rate x fixed rate day count fraction. ISDA 2003 Term: Fixed Rate Payer Calculation Amount.'

<fixedRate> FixedRate </fixedRate> [1]
'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate of 5% would be represented as 0.05.'

<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
'The day count fraction. ISDA 2003 Term: Fixed Rate Day Count Fraction.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FixedAmountCalculation">
  <xsd:sequence>
    <xsd:element name="calculationAmount" type=" CalculationAmount " minOccurs="0"/>

```

```
<xsd:element name="fixedRate" type=" FixedRate " />
<xsd:element name="dayCountFraction" type=" DayCountFraction " minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FixedRate**

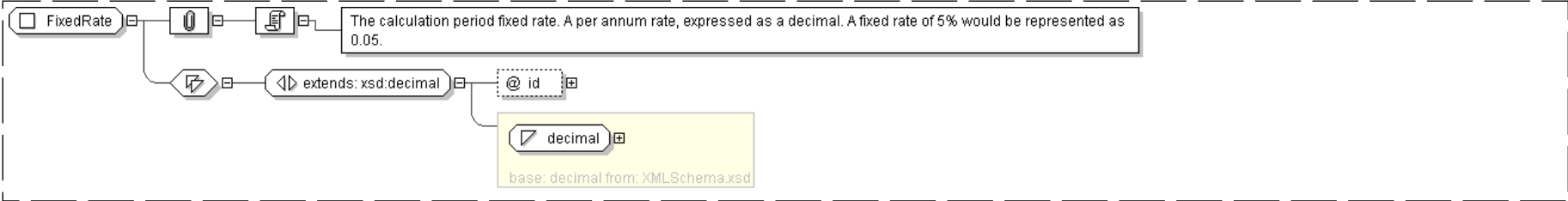
Super-types:	<a href="#">xsd:decimal</a> < <b>FixedRate</b> (by extension)
Sub-types:	None

Name	FixedRate
Used by (from the same schema document)	Complex Type <a href="#">FixedAmountCalculation</a>
Abstract	no
Documentation	The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate of 5% would be represented as 0.05.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]">
  xsd:decimal
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FixedRate">
  <xsd:simpleContent>
    <xsd:extension base=" xsd:decimal ">
      <xsd:attribute name="id" type=" xsd:ID " use="optional" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **FixedRateReference**

Super-types:	<a href="#">Reference</a> < <b>FixedRateReference</b> (by extension)
Sub-types:	None

Name	FixedRateReference
Used by (from the same schema document)	Complex Type <a href="#">CreditOptionStrike</a>
Abstract	no

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]" />
```



Diagram



Schema Component Representation

```
<xsd:complexType name="FixedRateReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="FixedRate"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: FloatingAmountEvents

Super-types:	None
Sub-types:	None
Name	FloatingAmountEvents
Used by (from the same schema document)	Complex Type <a href="#">ProtectionTerms</a>
Abstract	no

XML Instance Representation

```
<...>
<failureToPayPrincipal> Empty </failureToPayPrincipal> [0..1]
'A floating rate payment event. Corresponds to the failure by the Reference Entity to pay
an expected principal amount or the payment of an actual principal amount that is less than
the expected principal amount. ISDA 2003 Term: Failure to Pay Principal.'

<interestShortfall> InterestShortFall </interestShortfall> [0..1]
'A floating rate payment event. With respect to any Reference Obligation Payment Date,
either (a) the non-payment of an Expected Interest Amount or (b) the payment of an
Actual Interest Amount that is less than the Expected Interest Amount. ISDA 2003 Term:
Interest Shortfall.'

<writedown> Empty </writedown> [0..1]
'A floating rate payment event. Results from the fact that the underlyer writes down
its outstanding principal amount. ISDA 2003 Term: Writedown.'

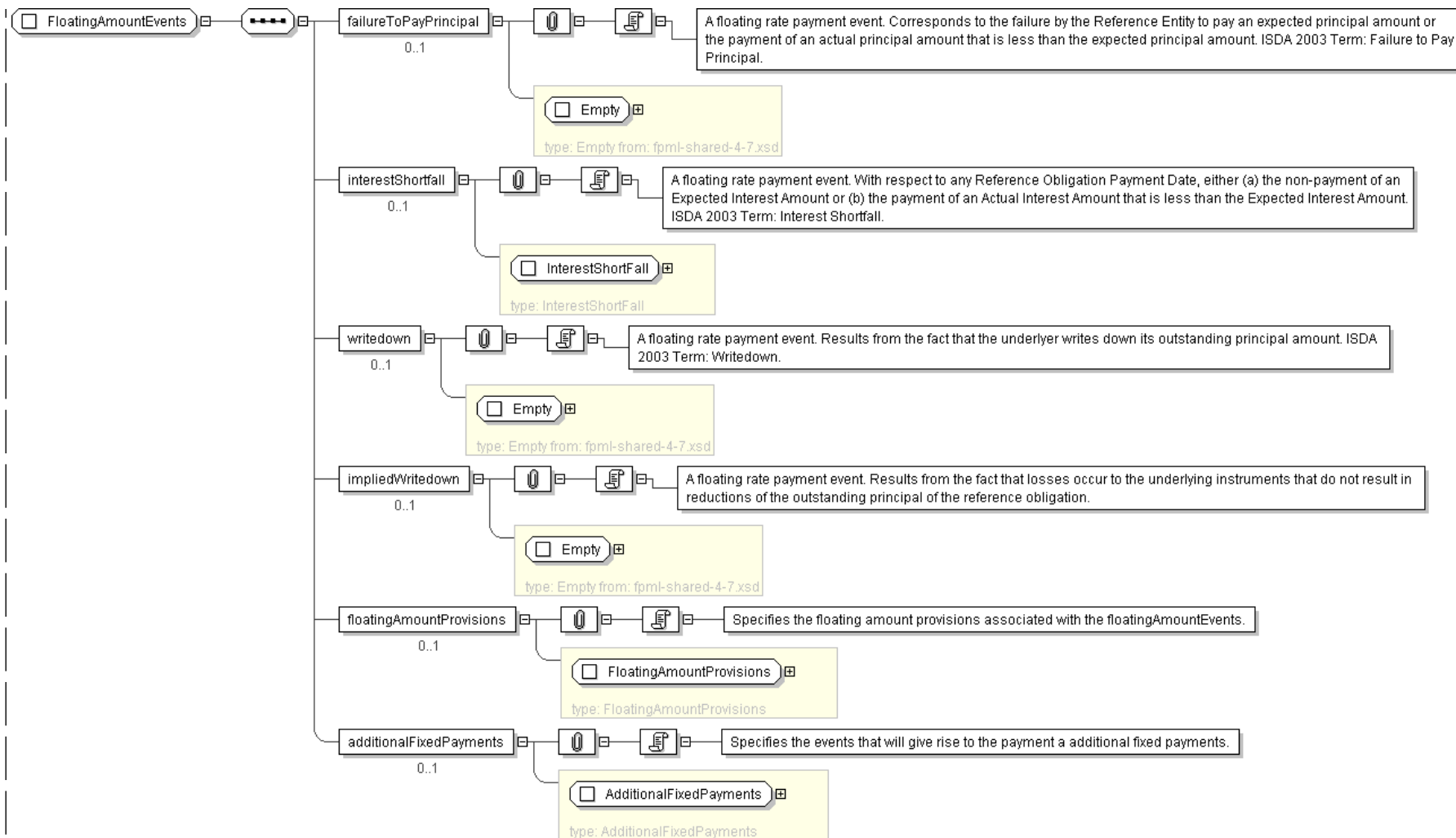
<impliedWritedown> Empty </impliedWritedown> [0..1]
'A floating rate payment event. Results from the fact that losses occur to the
underlying instruments that do not result in reductions of the outstanding principal of
the reference obligation.'

<floatingAmountProvisions> FloatingAmountProvisions </floatingAmountProvisions> [0..1]
'Specifies the floating amount provisions associated with the floatingAmountEvents.'

<additionalFixedPayments> AdditionalFixedPayments </additionalFixedPayments> [0..1]
'Specifies the events that will give rise to the payment a additional fixed payments.'

</...>
```

Diagram



#### Schema Component Representation

```
<xsd:complexType name="FloatingAmountEvents">
  <xsd:sequence>
    <xsd:element name="failureToPayPrincipal" type="Empty" minOccurs="0"/>
    <xsd:element name="interestShortfall" type="InterestShortFall" minOccurs="0"/>
    <xsd:element name="writedown" type="Empty" minOccurs="0"/>
    <xsd:element name="impliedWritedown" type="Empty" minOccurs="0"/>
    <xsd:element name="floatingAmountProvisions" type="FloatingAmountProvisions" minOccurs="0"/>
    <xsd:element name="additionalFixedPayments" type="AdditionalFixedPayments" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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#### Complex Type: **FloatingAmountProvisions**

Super-types:	None
Sub-types:	None

Name	FloatingAmountProvisions
Used by (from the same schema document)	Complex Type <a href="#">FloatingAmountEvents</a>
Abstract	no

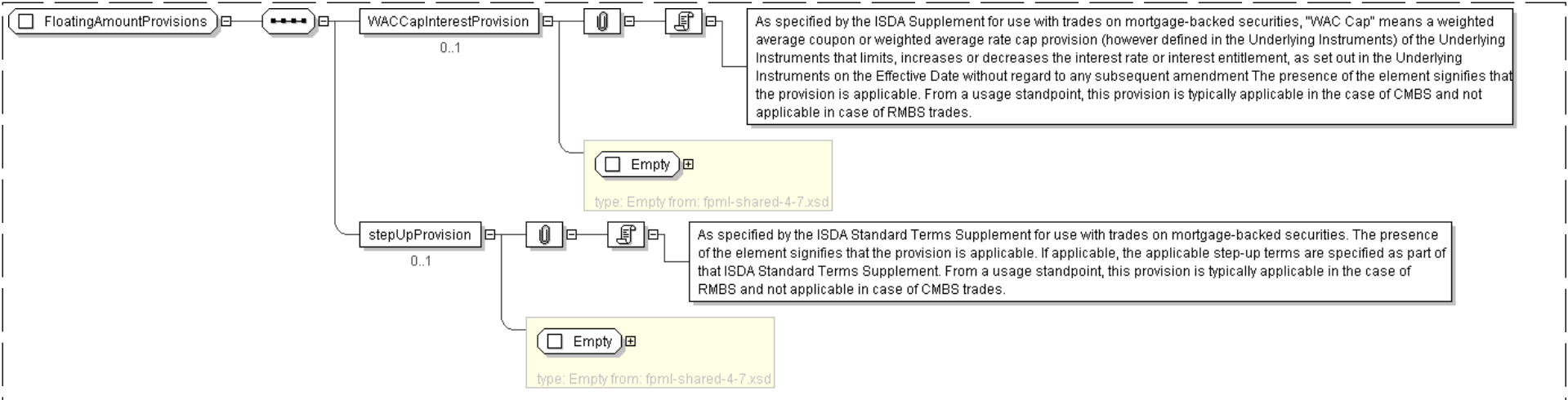
XML Instance Representation

```
<...>
<WACCapInterestProvision> Empty </WACCapInterestProvision> [0..1]
'As specified by the ISDA Supplement for use with trades on mortgage-backed securities,
\"WAC Cap\" means a weighted average coupon or weighted average rate cap provision
(however defined in the Underlying Instruments) of the Underlying Instruments that
limits, increases or decreases the interest rate or interest entitlement, as set out in
the Underlying Instruments on the Effective Date without regard to any subsequent amendment
The presence of the element signifies that the provision is applicable. From a
usage standpoint, this provision is typically applicable in the case of CMBS and not
applicable in case of RMBS trades.'

<stepUpProvision> Empty </stepUpProvision> [0..1]
'As specified by the ISDA Standard Terms Supplement for use with trades on mortgage-
backed securities. The presence of the element signifies that the provision is applicable.
If applicable, the applicable step-up terms are specified as part of that ISDA Standard
Terms Supplement. From a usage standpoint, this provision is typically applicable in the
case of RMBS and not applicable in case of CMBS trades.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FloatingAmountProvisions">
  <xsd:sequence>
    <xsd:element name="WACCapInterestProvision" type="Empty" minOccurs="0"/>
    <xsd:element name="stepUpProvision" type="Empty" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **GeneralTerms**

Super-types:	None
Sub-types:	None

Name	GeneralTerms
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwap</a>
Abstract	no

XML Instance Representation

<...>

<effectiveDate> [AdjustableDate2](#) </effectiveDate> [0..1]

'The first day of the term of the trade. This day may be subject to adjustment in accordance with a business day convention. ISDA 2003 Term: Effective Date.'

<scheduledTerminationDate> [DeprecatedScheduledTerminationDate](#) </scheduledTerminationDate> [0..1]

'The scheduled date on which the credit protection will lapse. May be specified as an adjusting or non-adjusting date or alternatively as a period offset from the effective date. ISDA 2003 Term: Scheduled Termination Date. The construct has been adjusted as part of the 4.3 release to remove the choice with the relativeDate which was of type Interval. As part of the version5, the intent is to make the scheduledTerminationDate of type AdjustableDate2 and remove the adjustableDate node.'

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'The seller of the credit protection. ISDA 2003 Term: Floating Rate Payer.'

<buyerPartyReference> [PartyOrTradeSideReference](#) </buyerPartyReference> [1]

'The buyer of the credit protection. ISDA 2003 Term: Fixed Rate Payer.'

<dateAdjustments> [BusinessDayAdjustments](#) </dateAdjustments> [0..1]

'ISDA 2003 Terms: Business Day and Business Day Convention.'

Start [Choice](#) [1]

<referenceInformation> [ReferenceInformation](#) </referenceInformation> [1]

'This element contains all the terms relevant to defining the reference entity and reference obligation(s).'

<indexReferenceInformation> [IndexReferenceInformation](#) </indexReferenceInformation> [1]

'This element contains all the terms relevant to defining the Credit DefaultSwap Index.'

<basketReferenceInformation> [BasketReferenceInformation](#) </basketReferenceInformation> [1]

'This element contains all the terms relevant to defining the Credit Default Swap Basket.'

End Choice

<additionalTerm> [AdditionalTerm](#) </additionalTerm> [0..\*]

'This element is used for representing information contained in the Additional Terms field of the 2003 Master Credit Derivatives confirm.'

<substitution> [Empty](#) </substitution> [0..1]

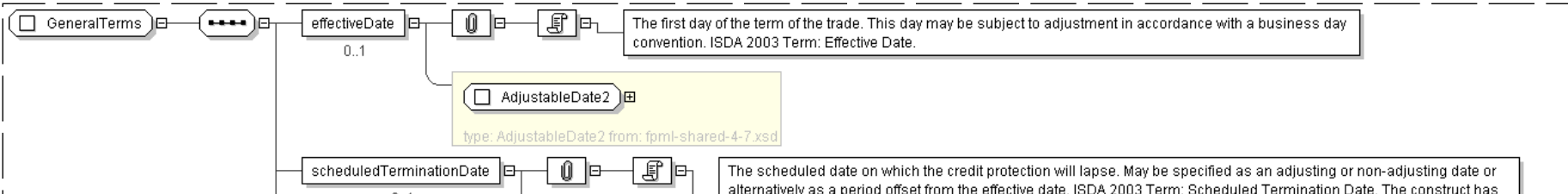
'Presence of this element indicates that substitution is applicable.'

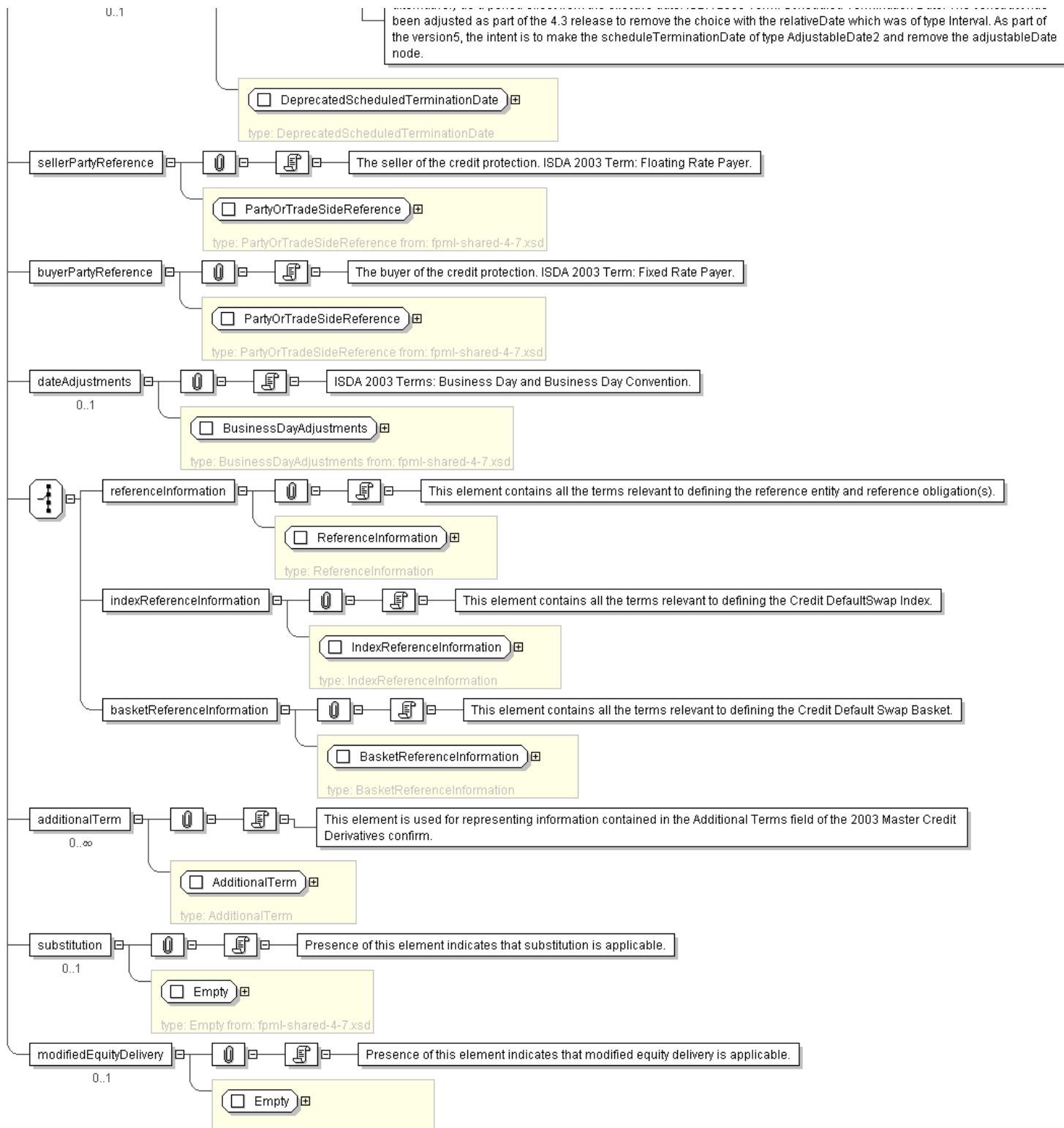
<modifiedEquityDelivery> [Empty](#) </modifiedEquityDelivery> [0..1]

'Presence of this element indicates that modified equity delivery is applicable.'

</...>

Diagram





type: Empty from: fpml-shared-4-7.xsd

Schema Component Representation

```
<xsd:complexType name="GeneralTerms">
  <xsd:sequence>
    <xsd:element name="effectiveDate" type=" AdjustableDate2 " minOccurs="0"/>
    <xsd:element name="scheduledTerminationDate" type=" DeprecatedScheduledTerminationDate " minOccurs="0"/>
    <xsd:element name="sellerPartyReference" type=" PartyOrTradeSideReference "/>
    <xsd:element name="buyerPartyReference" type=" PartyOrTradeSideReference "/>
    <xsd:element name="dateAdjustments" type=" BusinessDayAdjustments " minOccurs="0"/>
    <xsd:choice>
      <xsd:element name="referenceInformation" type=" ReferenceInformation "/>
      <xsd:element name="indexReferenceInformation" type=" IndexReferenceInformation "/>
      <xsd:element name="basketReferenceInformation" type=" BasketReferenceInformation "/>
    </xsd:choice>
    <xsd:element name="additionalTerm" type=" AdditionalTerm " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="substitution" type=" Empty " minOccurs="0"/>
    <xsd:element name="modifiedEquityDelivery" type=" Empty " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: IndexAnnexSource

Super-types:	<a href="#">Scheme</a> < IndexAnnexSource (by extension)
Sub-types:	None

Name	IndexAnnexSource
Used by (from the same schema document)	Complex Type <a href="#">IndexReferenceInformation</a>
Abstract	no

XML Instance Representation

```
<...
indexAnnexSourceScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IndexAnnexSource">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="indexAnnexSourceScheme" type=" xsd:anyURI " default="http://www.fpml.org/coding-scheme/cdx-index-annex-source"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: IndexId

Super-types:	<a href="#">Scheme</a> < <b>IndexId</b> (by extension)
Sub-types:	None

Name	IndexId
Used by (from the same schema document)	Complex Type <a href="#">IndexReferenceInformation</a> , Complex Type <a href="#">IndexReferenceInformation</a>
Abstract	no

XML Instance Representation

```
<...  
  indexIdScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IndexId">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="indexIdScheme" type=" xsd:anyURI "/">  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **IndexName**

Super-types:	<a href="#">Scheme</a> < <b>IndexName</b> (by extension)
Sub-types:	None

Name	IndexName
Used by (from the same schema document)	Complex Type <a href="#">IndexReferenceInformation</a>
Abstract	no

XML Instance Representation

```
<...  
  indexNameScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IndexName">
```

Complex Type: **IndexReferenceInformation**

Super-types:	None
Sub-types:	None
Name	IndexReferenceInformation
Used by (from the same schema document)	Complex Type <a href="#">GeneralTerms</a>
Abstract	no
Documentation	A type defining a Credit Default Swap Index.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <indexName> IndexName </indexName> [1]
  'The name of the index expressed as a free format string. FpML does not define usage rules
  for this element.'

  <indexId> IndexId </indexId> [0..*]
  'A CDS index identifier (e.g. RED pair code).'IndexId </indexId> [1..*]
  'A CDS index identifier (e.g. RED pair code).'xsd:positiveInteger </indexSeries> [0..1]
'A CDS index series identifier, e.g. 1, 2, 3 etc.'

<indexAnnexVersion> xsd:positiveInteger </indexAnnexVersion> [0..1]
'A CDS index series version identifier, e.g. 1, 2, 3 etc.'

<indexAnnexDate> xsd:date </indexAnnexDate> [0..1]
'A CDS index series annex date.'

<indexAnnexSource> IndexAnnexSource </indexAnnexSource> [0..1]
'A CDS index series annex source.'

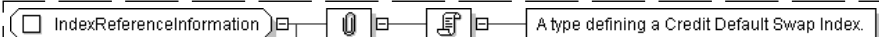
<excludedReferenceEntity> LegalEntity </excludedReferenceEntity> [0..*]
'Excluded reference entity.'

<tranche> Tranche </tranche> [0..1]
'This element contains CDS tranche terms.'

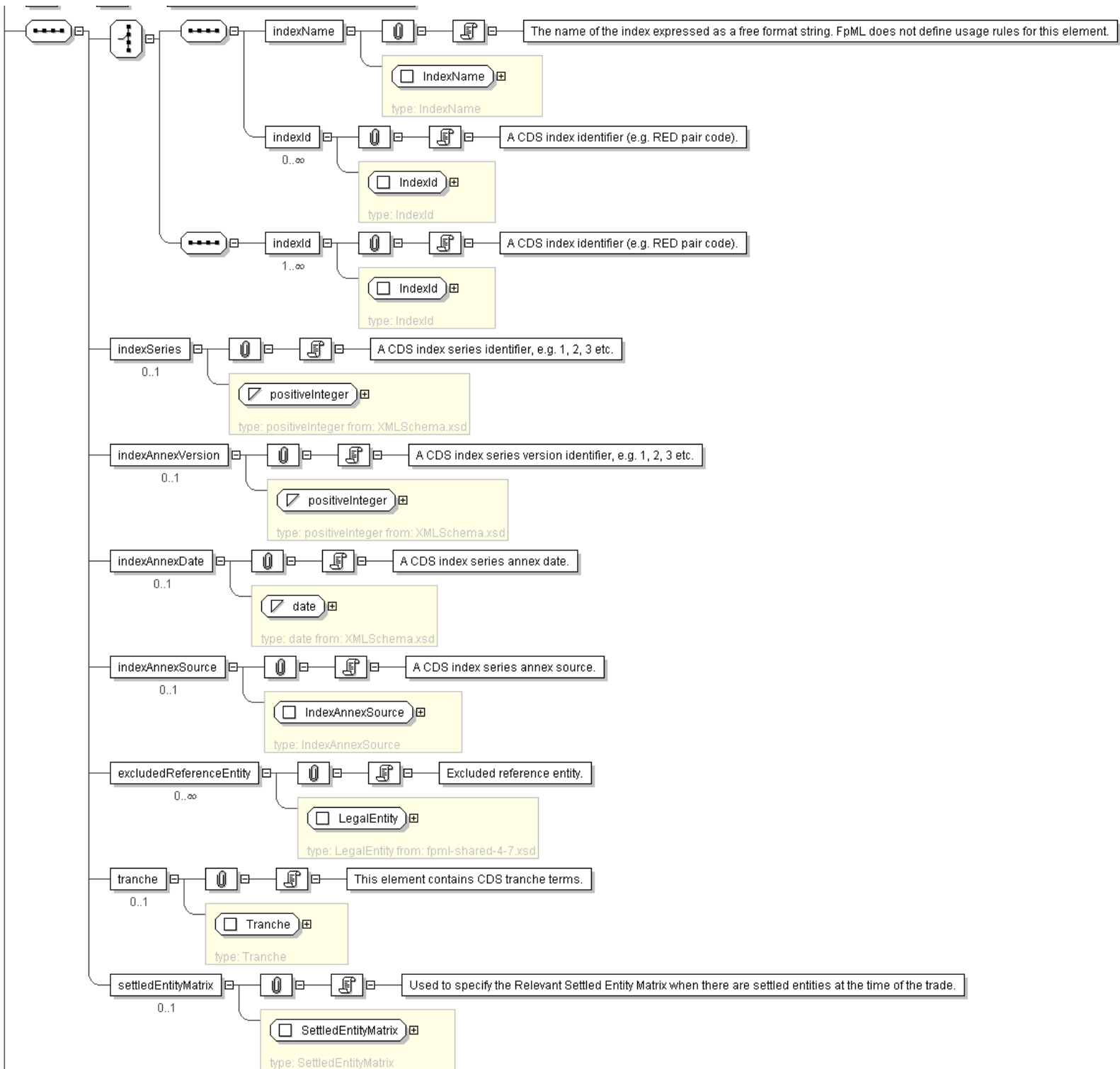
<settledEntityMatrix> SettledEntityMatrix </settledEntityMatrix> [0..1]
'Used to specify the Relevant Settled Entity Matrix when there are settled entities at the
time of the trade.'

</...>
```

Diagram







Schema Component Representation

```
<xsd:complexType name="IndexReferenceInformation">
  <xsd:sequence>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="indexName" type=" IndexName "/>
        <xsd:element name="indexId" type=" IndexId " minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
      <xsd:sequence>
        <xsd:element name="indexId" type=" IndexId " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:choice>
    <xsd:element name="indexSeries" type=" xsd:positiveInteger " minOccurs="0"/>
    <xsd:element name="indexAnnexVersion" type=" xsd:positiveInteger " minOccurs="0"/>
    <xsd:element name="indexAnnexDate" type=" xsd:date " minOccurs="0"/>
    <xsd:element name="indexAnnexSource" type=" IndexAnnexSource " minOccurs="0"/>
    <xsd:element name="excludedReferenceEntity" type=" LegalEntity "
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="tranche" type=" Tranche " minOccurs="0"/>
    <xsd:element name="settledEntityMatrix" type=" SettledEntityMatrix " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

[top](#)

Complex Type: **InitialPayment**

Super-types:	<a href="#">PaymentBase</a> < <b>InitialPayment</b> (by extension)
Sub-types:	None
Name	InitialPayment
Used by (from the same schema document)	Complex Type <a href="#">FeeLeg</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

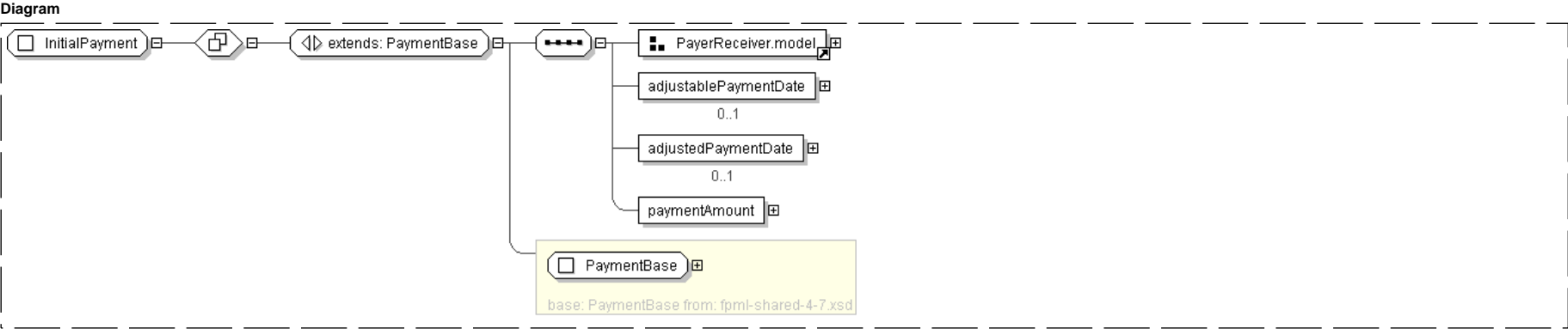
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <adjustablePaymentDate> xsd:date </adjustablePaymentDate> [0..1]
  'A fixed payment date that shall be subject to adjustment in accordance with the
applicable business day convention if it would otherwise fall on a day that is not a
business day. The applicable business day convention and business day are those specified
in the dateAdjustments element within the generalTerms component.'

  <adjustedPaymentDate> xsd:date </adjustedPaymentDate> [0..1]
  'The adjusted payment date. This date should already be adjusted for any applicable
business day convention. This component is not intended for use in trade confirmation but
may be specified to allow the fee structure to also serve as a cashflow type component.'

  <paymentAmount> Money </paymentAmount> [1]
  'A fixed payment amount.'

</...>
```



Schema Component Representation

```
<xsd:complexType name="InitialPayment">
  <xsd:complexContent>
    <xsd:extension base=" PaymentBase " >
      <xsd:sequence>
        <xsd:group ref=" PayerReceiver.model " />
        <xsd:element name="adjustablePaymentDate" type=" xsd:date " minOccurs="0"/>
        <xsd:element name="adjustedPaymentDate" type=" xsd:date " minOccurs="0"/>
        <xsd:element name="paymentAmount" type=" Money " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: InterestShortFall

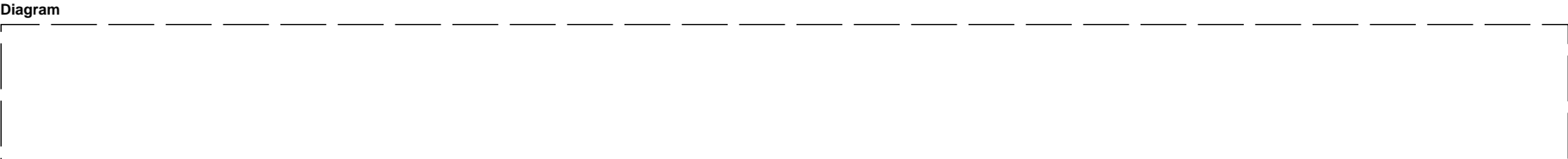
Super-types:	None
Sub-types:	None
Name	InterestShortFall
Used by (from the same schema document)	Complex Type FloatingAmountEvents
Abstract	no

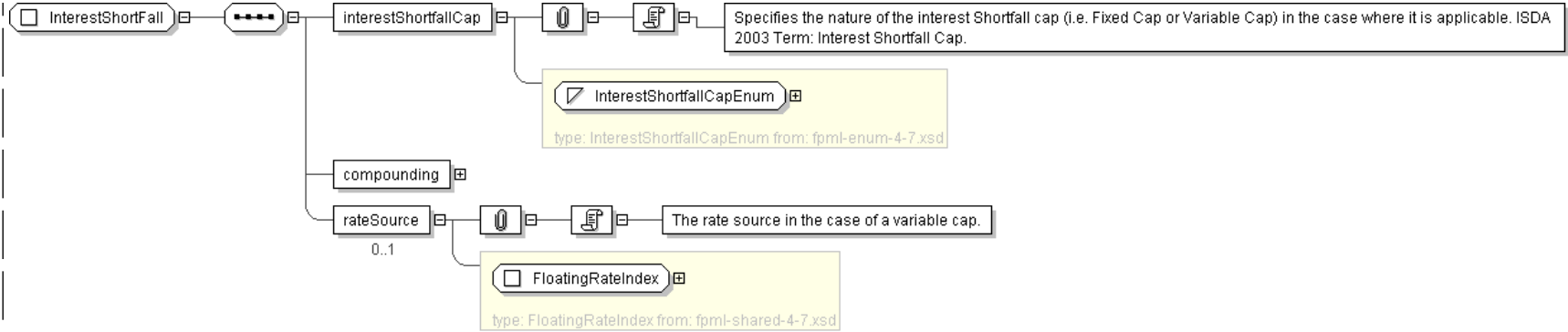
XML Instance Representation

```
<...>
  <interestShortfallCap> InterestShortfallCapEnum </interestShortfallCap> [1]
  'Specifies the nature of the interest Shortfall cap (i.e. Fixed Cap or Variable Cap) in
  the case where it is applicable. ISDA 2003 Term: Interest Shortfall Cap.'

  <compounding> xsd:boolean </compounding> [1]
  <rateSource> FloatingRateIndex </rateSource> [0..1]
  'The rate source in the case of a variable cap.'

</...>
```





Schema Component Representation

```
<xsd:complexType name="InterestShortFall">
  <xsd:sequence>
    <xsd:element name="interestShortfallCap" type=" InterestShortfallCapEnum " />
    <xsd:element name="compounding" type=" xsd:boolean " />
    <xsd:element name="rateSource" type=" FloatingRateIndex " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LoanParticipation**

Super-types:	<a href="#">PCDeliverableObligationCharac</a> < <b>LoanParticipation</b> (by extension)
Sub-types:	None

Name	LoanParticipation
Used by (from the same schema document)	Complex Type <a href="#">DeliverableObligations</a> , Complex Type <a href="#">DeliverableObligations</a>
Abstract	no

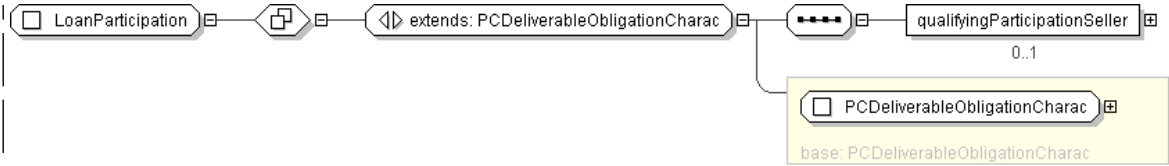
XML Instance Representation

```
<...>
  <partialCashSettlement> Empty </partialCashSettlement> [0..1]
  'Specifies whether either \'Partial Cash Settlement of Assignable Loans\' , \'Partial
  Cash Settlement of Consent Required Loans\' or \'Partial Cash Settlement of Participations\'
  is applicable. If this element is specified and Assignable Loan is a Deliverable
  Obligation Characteristic, any Assignable Loan that is deliverable, but where a non-receipt
  of Consent by the Physical Settlement Date has occurred, the Loan can be cash settled
  rather than physically delivered. If this element is specified and Consent Required Loan is
  a Deliverable Obligation Characterisitc, any Consent Required Loan that is deliverable,
  but where a non-receipt of Consent by the Physical Settlement Date has occurred, the Loan
  can be cash settled rather than physically delivered. If this element is specified and
  Direct Loan Participation is a Deliverable Obligation Characterisitic, any Participation
  that is deliverable, but where this participation has not been effected (has not come
  into effect) by the Physical Settlement Date, the participation can be cash settled rather
  than physically delivered.'

  <qualifyingParticipationSeller> xsd:string </qualifyingParticipationSeller> [0..1]
  'If Direct Loan Participation is specified as a deliverable obligation characteristic,
  this specifies any requirements for the Qualifying Participation Seller. The requirements
  may be listed free-form. ISDA 2003 Term: Qualifying Participation Seller'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LoanParticipation">
  <xsd:complexContent>
    <xsd:extension base="PCDeliverableObligationCharac">
      <xsd:sequence>
        <xsd:element name="qualifyingParticipationSeller" type="xsd:string" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MatrixSource**

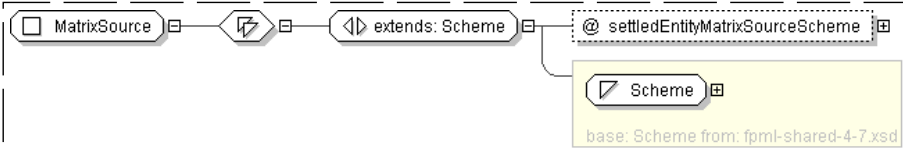
Super-types:	<a href="#">Scheme</a> < <b>MatrixSource</b> (by extension)
Sub-types:	None

Name	MatrixSource
Used by (from the same schema document)	Complex Type <a href="#">SettledEntityMatrix</a>
Abstract	no

XML Instance Representation

```
<...
  settledEntityMatrixSourceScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MatrixSource">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="settledEntityMatrixSourceScheme" type="xsd:anyURI" default="http://www.fpml.org/coding-scheme/settled-entity-matrix-source"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MultipleValuationDates**

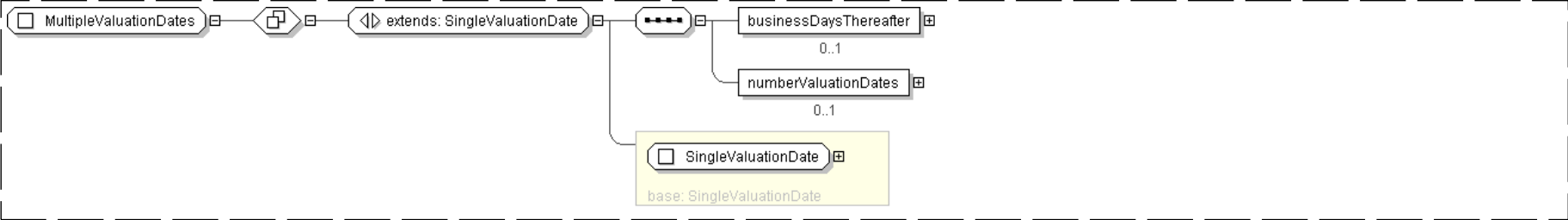
Super-types:	<a href="#">SingleValuationDate</a> < <b>MultipleValuationDates</b> (by extension)
--------------	--

Sub-types:	None
Name	MultipleValuationDates
Used by (from the same schema document)	Complex Type <a href="#">ValuationDate</a>
Abstract	no

XML Instance Representation

<div>&lt;...&gt;</div> <div>&lt;businessDays&gt; <a href="#">xsd:nonNegativeInteger</a> &lt;/businessDays&gt; [0..1]</div> <div>'A number of business days. Its precise meaning is dependant on the context in which this element is used. ISDA 2003 Term: Business Day'</div>
<div>&lt;businessDaysThereafter&gt; <a href="#">xsd:positiveInteger</a> &lt;/businessDaysThereafter&gt; [0..1]</div> <div>'The number of business days between successive valuation dates when multiple valuation dates are applicable for cash settlement. ISDA 2003 Term: Business Days thereafter'</div>
<div>&lt;numberValuationDates&gt; <a href="#">xsd:positiveInteger</a> &lt;/numberValuationDates&gt; [0..1]</div> <div>'Where multiple valuation dates are specified as being applicable for cash settlement, this element specifies (a) the number of applicable valuation dates, and (b) the number of business days after satisfaction of all conditions to settlement when the first such valuation date occurs, and (c) the number of business days thereafter of each successive valuation date. ISDA 2003 Term: Multiple Valuation Dates'</div>
</...>

Diagram



Schema Component Representation

<pre>&lt;xsd:complexType name="MultipleValuationDates"&gt;   &lt;xsd:complexContent&gt;     &lt;xsd:extension base=" <a href="#">SingleValuationDate</a> " &gt;       &lt;xsd:sequence&gt;         &lt;xsd:element name="businessDaysThereafter" type=" <a href="#">xsd:positiveInteger</a> " minOccurs="0"/&gt;         &lt;xsd:element name="numberValuationDates" type=" <a href="#">xsd:positiveInteger</a> " minOccurs="0"/&gt;       &lt;/xsd:sequence&gt;     &lt;/xsd:extension&gt;   &lt;/xsd:complexContent&gt; &lt;/xsd:complexType&gt;</pre>
--

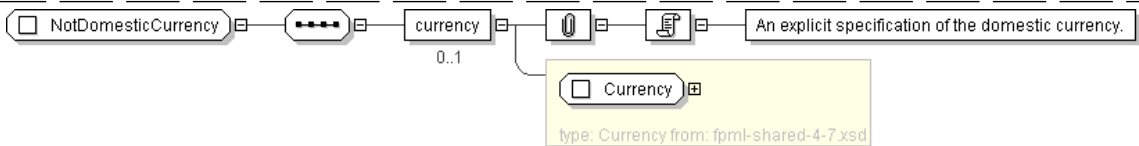
Complex Type: **NotDomesticCurrency**

Super-types:	None
Sub-types:	None
Name	NotDomesticCurrency
Used by (from the same schema document)	Complex Type <a href="#">DeliverableObligations</a> , Complex Type <a href="#">Obligations</a>
Abstract	no

XML Instance Representation

```
<...>
  <currency> Currency </currency> [0..1]
  'An explicit specification of the domestic currency.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotDomesticCurrency">
  <xsd:sequence>
    <xsd:element name="currency" type=" Currency " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Obligations**

Super-types:	None
Sub-types:	None
Name	Obligations
Used by (from the same schema document)	Complex Type <a href="#">ProtectionTerms</a>
Abstract	no

XML Instance Representation

```
<...>
<category> ObligationCategoryEnum </category> [1]
'Used in both obligations and deliverable obligations to represent a class or type
of securities which apply. ISDA 2003 Term: Obligation Category/Deliverable Obligation Category'

<notSubordinated> Empty </notSubordinated> [0..1]
'An obligation and deliverable obligation characteristic. An obligation that ranks at
least equal with the most senior Reference Obligation in priority of payment or, if
no Reference Obligation is specified in the related Confirmation, the obligations of
the Reference Entity that are senior. ISDA 2003 Term: Not Subordinated'

<specifiedCurrency> SpecifiedCurrency </specifiedCurrency> [0..1]
'An obligation and deliverable obligation characteristic. The currency or currencies in
which an obligation or deliverable obligation must be payable. ISDA 2003 Term:
Specified Currency'

<notSovereignLender> Empty </notSovereignLender> [0..1]
'An obligation and deliverable obligation characteristic. Any obligation that is not
primarily (majority) owed to a Sovereign or Supranational Organization. ISDA 2003 Term:
Not Sovereign Lender'

<notDomesticCurrency> NotDomesticCurrency </notDomesticCurrency> [0..1]
'An obligation and deliverable obligation characteristic. Any obligation that is payable in
any currency other than the domestic currency. Domestic currency is either the currency
so specified or, if no currency is specified, the currency of (a) the reference entity, if
the reference entity is a sovereign, or (b) the jurisdiction in which the relevant
reference entity is organised, if the reference entity is not a sovereign. ISDA 2003 Term:
Not Domestic Currency'
```

<notDomesticLaw> [Empty](#) </notDomesticLaw> [0..1]

'An obligation and deliverable obligation characteristic. If the reference entity is a Sovereign, this means any obligation that is not subject to the laws of the reference entity. If the reference entity is not a sovereign, this means any obligation that is not subject to the laws of the jurisdiction of the reference entity. ISDA 2003 Term: Not Domestic Law'

<listed> [Empty](#) </listed> [0..1]

'An obligation and deliverable obligation characteristic. Indicates whether or not the obligation is quoted, listed or ordinarily purchased and sold on an exchange. ISDA 2003 Term: Listed'

<notDomesticIssuance> [Empty](#) </notDomesticIssuance> [0..1]

'An obligation and deliverable obligation characteristic. Any obligation other than an obligation that was intended to be offered for sale primarily in the domestic market of the relevant Reference Entity. This specifies that the obligation must be an internationally recognized bond. ISDA 2003 Term: Not Domestic Issuance'

Start [Choice](#) [0..1]

<fullFaithAndCreditObLiability> [Empty](#) </fullFaithAndCreditObLiability> [1]

'An obligation and deliverable obligation characteristic. Defined in the ISDA published additional provisions for U.S. Municipal as Reference Entity. ISDA 2003 Term: Full Faith and Credit Obligation Liability'

<generalFundObligationLiability> [Empty](#) </generalFundObligationLiability> [1]

'An obligation and deliverable obligation characteristic. Defined in the ISDA published additional provisions for U.S. Municipal as Reference Entity. ISDA 2003 Term: General Fund Obligation Liability'

<revenueObligationLiability> [Empty](#) </revenueObligationLiability> [1]

'An obligation and deliverable obligation characteristic. Defined in the ISDA published additional provisions for U.S. Municipal as Reference Entity. ISDA 2003 Term: Revenue Obligation Liability'

End Choice

<notContingent> [Empty](#) </notContingent> [0..1]

'NOTE: Only allowed as an obligation characteristic under ISDA Credit 1999. In essence Not Contingent means the repayment of principal cannot be dependant on a formula/index, i.e. to prevent the risk of being delivered an instrument that may never pay any element of principal, and to ensure that the obligation is interest bearing (on a regular schedule). ISDA 2003 Term: Not Contingent'

<excluded> [xsd:string](#) </excluded> [0..1]

'A free format string to specify any excluded obligations or deliverable obligations, as the case may be, of the reference entity or excluded types of obligations or deliverable obligations. ISDA 2003 Term: Excluded Obligations/Excluded Deliverable Obligations'

<othReferenceEntityObligations> [xsd:string](#) </othReferenceEntityObligations> [0..1]

'This element is used to specify any other obligations of a reference entity in both obligations and deliverable obligations. The obligations can be specified free-form. ISDA 2003 Term: Other Obligations of a Reference Entity'

<designatedPriority> [Lien](#) </designatedPriority> [0..1]

'Applies to Loan CDS, to indicate what lien level is appropriate for a deliverable obligation. Applies to European Loan CDS, to indicate the Ranking of the obligation. Example: a 2nd lien Loan CDS would imply that the deliverable obligations are 1st or 2nd lien loans.'

<cashSettlementOnly> [Empty](#) </cashSettlementOnly> [0..1]

'An obligation and deliverable obligation characteristic. Defined in the ISDA published Standard Terms Supplement for use with CDS Transactions on Leveraged Loans. ISDA 2003 Term: Cash Settlement Only.'

<deliveryOfCommitments> [Empty](#) </deliveryOfCommitments> [0..1]

'An obligation and deliverable obligation characteristic. Defined in the ISDA published Standard Terms Supplement for use with CDS Transactions on Leveraged Loans. ISDA



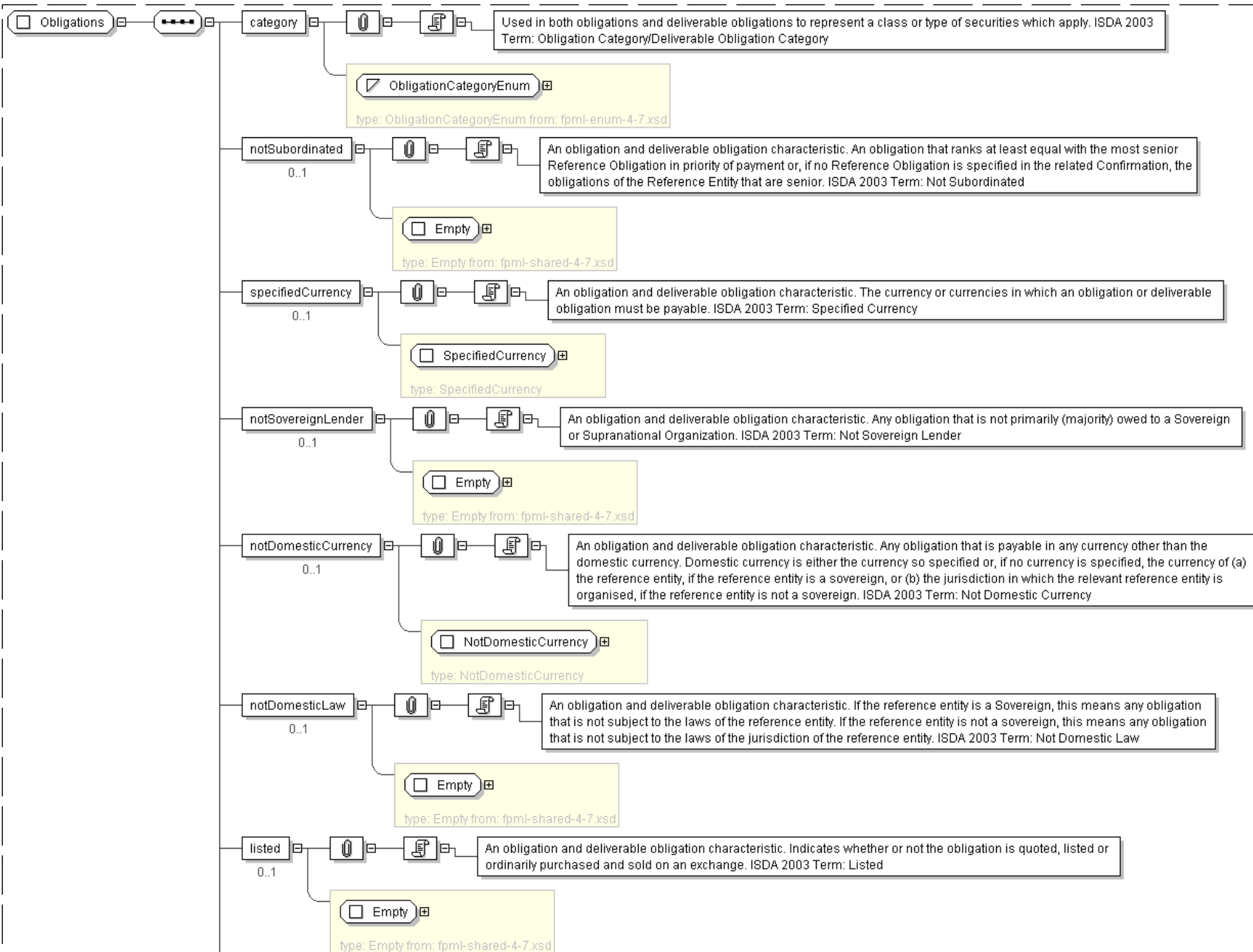
2003 Term: Delivery of Commitments.'

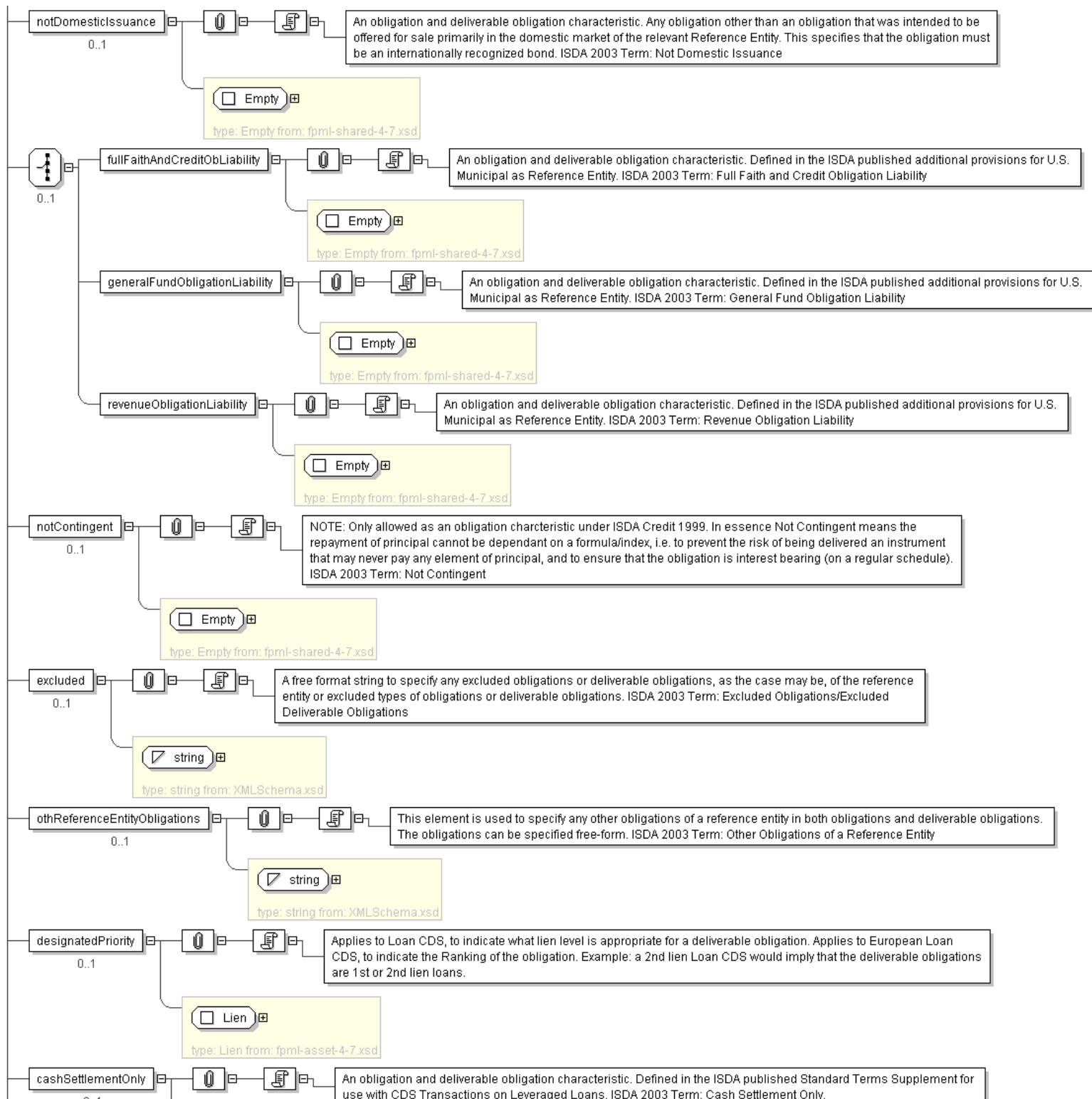
<continuity> Empty </continuity> [0..1]

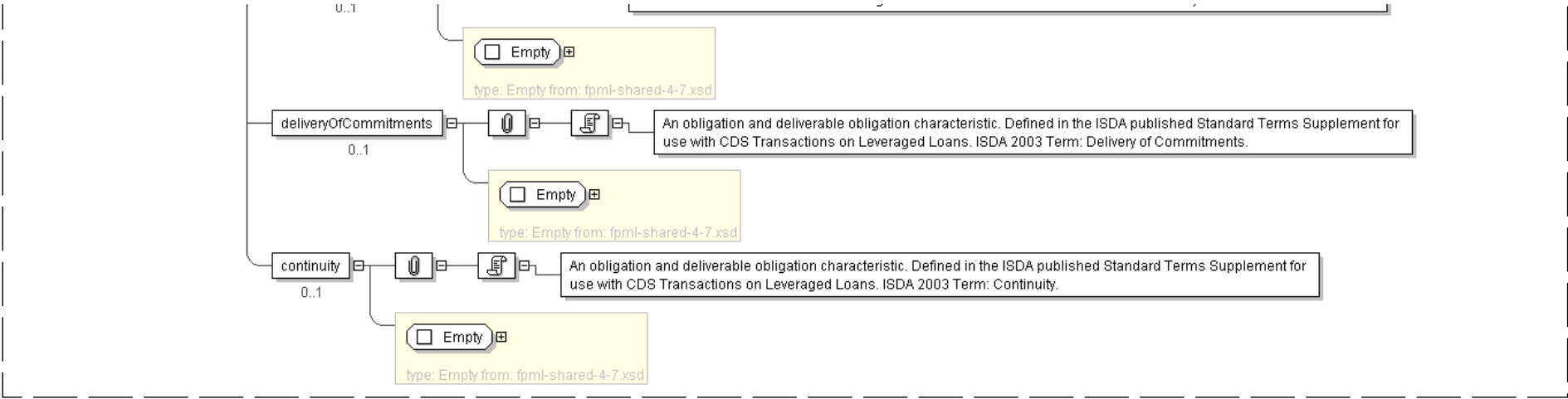
'An obligation and deliverable obligation characteristic. Defined in the ISDA published Standard Terms Supplement for use with CDS Transactions on Leveraged Loans. ISDA 2003 Term: Continuity.'

</...>

#### Diagram







Schema Component Representation

```
<xsd:complexType name="Obligations">
  <xsd:sequence>
    <xsd:element name="category" type="ObligationCategoryEnum"/>
    <xsd:element name="notSubordinated" type="Empty" minOccurs="0"/>
    <xsd:element name="specifiedCurrency" type="SpecifiedCurrency" minOccurs="0"/>
    <xsd:element name="notSovereignLender" type="Empty" minOccurs="0"/>
    <xsd:element name="notDomesticCurrency" type="NotDomesticCurrency" minOccurs="0"/>
    <xsd:element name="notDomesticLaw" type="Empty" minOccurs="0"/>
    <xsd:element name="listed" type="Empty" minOccurs="0"/>
    <xsd:element name="notDomesticIssuance" type="Empty" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="fullFaithAndCreditObLiability" type="Empty"/>
      <xsd:element name="generalFundObligationLiability" type="Empty"/>
      <xsd:element name="revenueObligationLiability" type="Empty"/>
    </xsd:choice>
    <xsd:element name="notContingent" type="Empty" minOccurs="0"/>
    <xsd:element name="excluded" type="xsd:string" minOccurs="0"/>
    <xsd:element name="othReferenceEntityObligations" type="xsd:string" minOccurs="0"/>
    <xsd:element name="designatedPriority" type="Lien" minOccurs="0"/>
    <xsd:element name="cashSettlementOnly" type="Empty" minOccurs="0"/>
    <xsd:element name="deliveryOfCommitments" type="Empty" minOccurs="0"/>
    <xsd:element name="continuity" type="Empty" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PCDeliverableObligationCharac**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">LoanParticipation</a> (by extension)</li></ul>
Name	PCDeliverableObligationCharac
Used by (from the same schema document)	Complex Type <a href="#">DeliverableObligations</a> , Complex Type <a href="#">DeliverableObligations</a>
Abstract	no

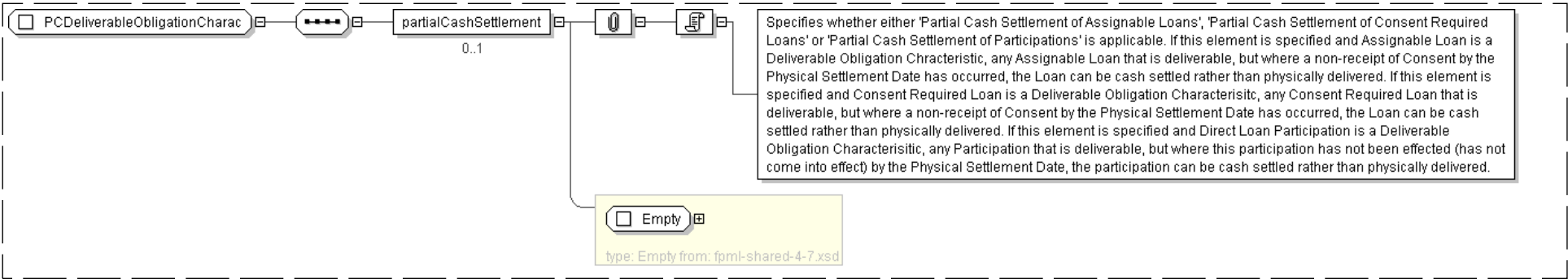
XML Instance Representation

```
<...>
<partialCashSettlement> Empty </partialCashSettlement> [0..1]
'Specifies whether either \'Partial Cash Settlement of Assignable Loans\' , \'Partial
```

Cash Settlement of Consent Required Loans' or 'Partial Cash Settlement of Participations' is applicable. If this element is specified and Assignable Loan is a Deliverable Obligation Characteristic, any Assignable Loan that is deliverable, but where a non-receipt of Consent by the Physical Settlement Date has occurred, the Loan can be cash settled rather than physically delivered. If this element is specified and Consent Required Loan is a Deliverable Obligation Characterisitc, any Consent Required Loan that is deliverable, but where a non-receipt of Consent by the Physical Settlement Date has occurred, the Loan can be cash settled rather than physically delivered. If this element is specified and Direct Loan Participation is a Deliverable Obligation Characterisitic, any Participation that is deliverable, but where this participation has not been effected (has not come into effect) by the Physical Settlement Date, the participation can be cash settled rather than physically delivered.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="PCDeliverableObligationCharac">
  <xsd:sequence>
    <xsd:element name="partialCashSettlement" type="Empty" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PeriodicPayment**

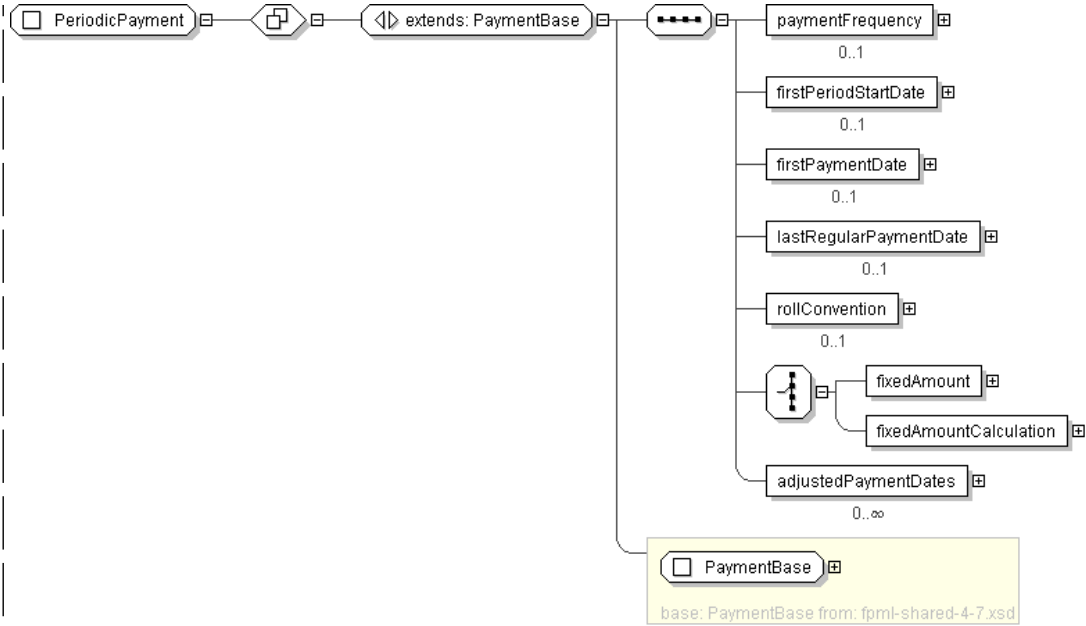
Super-types:	<a href="#">PaymentBase</a> < <b>PeriodicPayment</b> (by extension)
Sub-types:	None
Name	PeriodicPayment
Used by (from the same schema document)	Complex Type <a href="#">FeeLeg</a>
Abstract	no

XML Instance Representation

<...  
id="xsd:ID [0..1]">  
<paymentFrequency> [Period](#) </paymentFrequency> [0..1]  
'The time interval between regular fixed rate payer payment dates.'  
  
<firstPeriodStartDate>xsd:date </firstPeriodStartDate> [0..1]  
'The start date of the initial calculation period if such date is not equal to the trade's effective date. It must only be specified if it is not equal to the effective date. The applicable business day convention and business day are those specified in the dateAdjustments element within the generalTerms component (or in a transaction supplement FpML representation defined within the referenced general terms confirmation agreement).'

<code>&lt;firstPaymentDate&gt; <a href="#">xsd:date</a> &lt;/firstPaymentDate&gt; [0..1]</code>	<i>'The first unadjusted fixed rate payer payment date. The applicable business day convention and business day are those specified in the <a href="#">dateAdjustments</a> element within the <a href="#">generalTerms</a> component (or in a transaction supplement <a href="#">FpML</a> representation defined within the referenced general terms confirmation agreement). ISDA 2003 Term: Fixed Rate Payer Payment Date'</i>
<code>&lt;lastRegularPaymentDate&gt; <a href="#">xsd:date</a> &lt;/lastRegularPaymentDate&gt; [0..1]</code>	<i>'The last regular unadjusted fixed rate payer payment date. The applicable business day convention and business day are those specified in the <a href="#">dateAdjustments</a> element within the <a href="#">generalTerms</a> component (or in a transaction supplement <a href="#">FpML</a> representation defined within the referenced general terms confirmation agreement). This element should only be included if there is a final payment stub, i.e. where the last regular unadjusted fixed rate payer payment date is not equal to the scheduled termination date. ISDA 2003 Term: Fixed Rate Payer Payment Date'</i>
<code>&lt;rollConvention&gt; <a href="#">RollConventionEnum</a> &lt;/rollConvention&gt; [0..1]</code>	<i>'Used in conjunction with the <a href="#">effectiveDate</a>, <a href="#">scheduledTerminationDate</a>, <a href="#">firstPaymentDate</a>, <a href="#">lastRegularPaymentDate</a> and <a href="#">paymentFrequency</a> to determine the regular fixed rate payer payment dates.'</i>
Start <a href="#">Choice</a> [1]	
<code>&lt;fixedAmount&gt; <a href="#">Money</a> &lt;/fixedAmount&gt; [1]</code>	<i>'A fixed payment amount. ISDA 2003 Term: Fixed Amount'</i>
<code>&lt;fixedAmountCalculation&gt; <a href="#">FixedAmountCalculation</a> &lt;/fixedAmountCalculation&gt; [1]</code>	<i>'This element contains all the terms relevant to calculating a fixed amount where the fixed amount is calculated by reference to a per annum fixed rate. There is no corresponding ISDA 2003 Term. The equivalent is Sec 5.1 \"Calculation of Fixed Amount\" but this in itself is not a defined Term.'</i>
End <a href="#">Choice</a>	
<code>&lt;adjustedPaymentDates&gt; <a href="#">AdjustedPaymentDates</a> &lt;/adjustedPaymentDates&gt; [0..*]</code>	<i>'An optional cashflow-like structure allowing the equivalent representation of the periodic fixed payments in terms of a series of adjusted payment dates and amounts. This is intended to support application integration within an organisation and is not intended for use in inter-firm communication or confirmations. ISDA 2003 Term: Fixed Rate Payer Payment Date'</i>
<code>&lt;/...&gt;</code>	

Diagram



Schema Component Representation

```
<xsd:complexType name="PeriodicPayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:element name="paymentFrequency" type="Period" minOccurs="0"/>
        <xsd:element name="firstPeriodStartDate" type="xsd:date" minOccurs="0"/>
        <xsd:element name="firstPaymentDate" type="xsd:date" minOccurs="0"/>
        <xsd:element name="lastRegularPaymentDate" type="xsd:date" minOccurs="0"/>
        <xsd:element name="rollConvention" type="RollConventionEnum" minOccurs="0"/>
        <xsd:choice>
          <xsd:element name="fixedAmount" type="Money"/>
          <xsd:element name="fixedAmountCalculation" type="FixedAmountCalculation"/>
        </xsd:choice>
        <xsd:element name="adjustedPaymentDates" type="AdjustedPaymentDates"
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PhysicalSettlementPeriod**

Super-types:	None
Sub-types:	None
Name	PhysicalSettlementPeriod
Used by (from the same schema document)	Complex Type <a href="#">PhysicalSettlementTerms</a>
Abstract	no

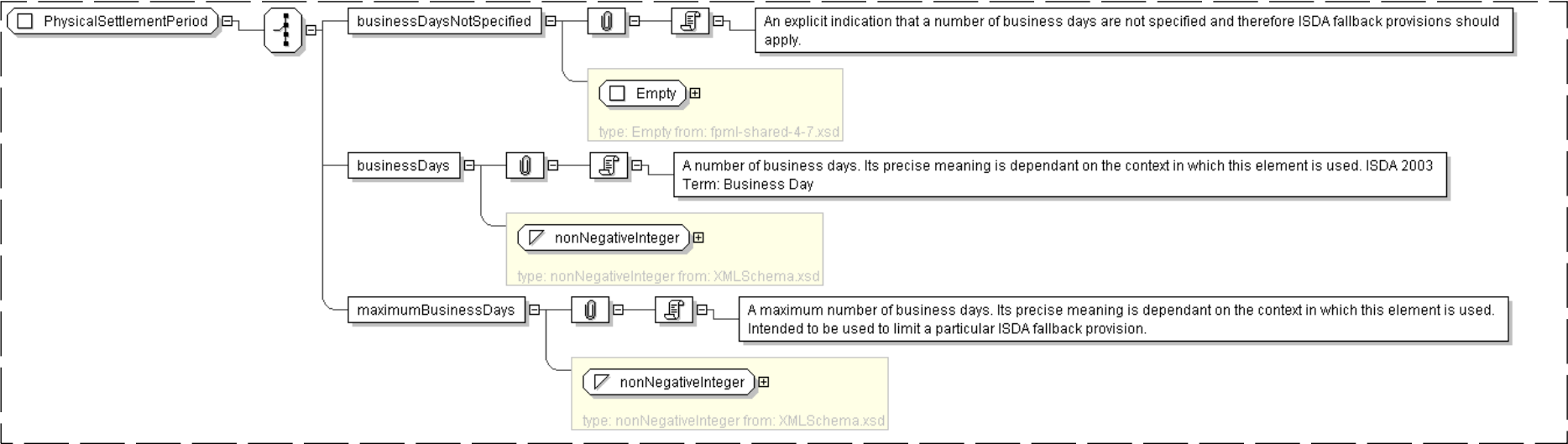
XML Instance Representation

```
<...>
Start Choice [1]
```

```
<businessDaysNotSpecified> Empty </businessDaysNotSpecified> [1]
'An explicit indication that a number of business days are not specified and therefore
ISDA fallback provisions should apply.'xsd:nonNegativeInteger </businessDays> [1]
'A number of business days. Its precise meaning is dependant on the context in which
this element is used. ISDA 2003 Term: Business Day'

<maximumBusinessDays> xsd:nonNegativeInteger </maximumBusinessDays> [1]
'A maximum number of business days. Its precise meaning is dependant on the context in
which this element is used. Intended to be used to limit a particular ISDA fallback provision.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PhysicalSettlementPeriod">
  <xsd:choice>
    <xsd:element name="businessDaysNotSpecified" type=" Empty "/>
    <xsd:element name="businessDays" type=" xsd:nonNegativeInteger "/>
    <xsd:element name="maximumBusinessDays" type=" xsd:nonNegativeInteger "/>
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: **PhysicalSettlementTerms**

Super-types:	<a href="#">SettlementTerms</a> < <b>PhysicalSettlementTerms</b> (by extension)
Sub-types:	None
Name	PhysicalSettlementTerms
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwap</a>
Abstract	no

XML Instance Representation

```
<...>
```

```
'id=" xsd:ID [0..1]">
<settlementCurrency> Currency </settlementCurrency> [0..1]
'ISDA 2003 Term: Settlement Currency'

<physicalSettlementPeriod> PhysicalSettlementPeriod </physicalSettlementPeriod> [0..1]
'The number of business days used in the determination of the physical settlement date.
The physical settlement date is this number of business days after all applicable conditions
to settlement are satisfied. If a number of business days is not specified fallback
provisions apply for determining the number of business days. If Section 8.5/8.6 of
the 1999/2003 ISDA Definitions are to apply the businessDaysNotSpecified element should
be included. If a specified number of business days are to apply these should be specified
in the businessDays element. If Section 8.5/8.6 of the 1999/2003 ISDA Definitions are to
apply but capped at a maximum number of business days then the maximum number should
be specified in the maximumBusinessDays element. ISDA 2003 Term: Physical Settlement Period'

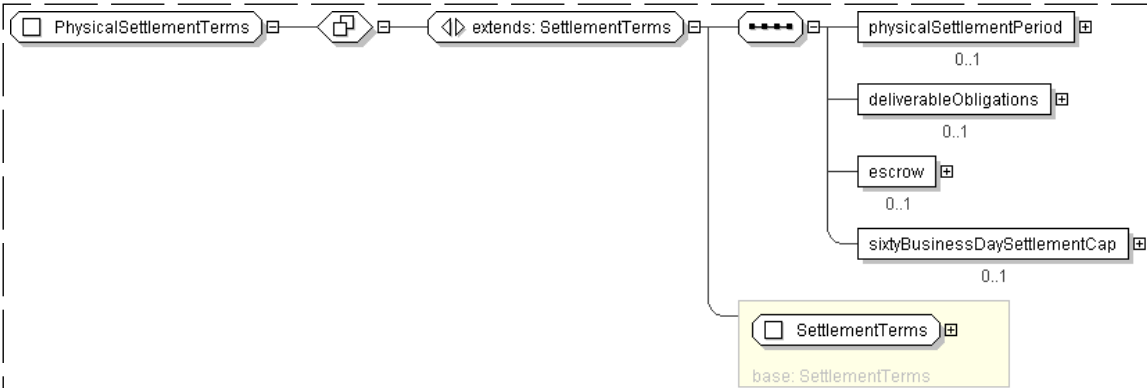
<deliverableObligations> DeliverableObligations </deliverableObligations> [0..1]
'This element contains all the ISDA terms relevant to defining the deliverable obligations.'

<escrow> xsd:boolean </escrow> [0..1]
'If this element is specified, indicates that physical settlement must take place through
the use of an escrow agent. (For Canadian counterparties this is always "Not Applicable
\". ISDA 2003 Term: Escrow'

<sixtyBusinessDaySettlementCap> xsd:boolean </sixtyBusinessDaySettlementCap> [0..1]
'If this element is specified, for a transaction documented under the 2003 ISDA
Credit Derivatives Definitions, has the effect of incorporating the language set forth
below into the confirmation. The section references are to the 2003 ISDA Credit
Derivatives Definitions. Notwithstanding Section 1.7 or any provisions of Sections 9.9 or
9.10 to the contrary, but without prejudice to Section 9.3 and (where applicable) Sections
9.4, 9.5 and 9.6, if the Termination Date has not occurred on or prior to the date that is
60 Business Days following the Physical Settlement Date, such 60th Business Day shall be
deemed to be the Termination Date with respect to this Transaction except in relation to
any portion of the Transaction (an \"Affected Portion\") in respect of which: (1) a
valid notice of Buy-in Price has been delivered that is effective fewer than three
Business Days prior to such 60th Business Day, in which case the Termination Date for
that Affected Portion shall be the third Business Day following the date on which such
notice is effective; or (2) Buyer has purchased but not Delivered Deliverable
Obligations validly specified by Seller pursuant to Section 9.10(b), in which case
the Termination Date for that Affected Portion shall be the tenth Business Day following
the date on which Seller validly specified such Deliverable Obligations to Buyer.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PhysicalSettlementTerms">
  <xsd:complexContent>
    <xsd:extension base=" SettlementTerms ">
```



```
<xsd:sequence>
  <xsd:element name="physicalSettlementPeriod" type=" PhysicalSettlementPeriod " minOccurs="0"/>
  <xsd:element name="deliverableObligations" type=" DeliverableObligations " minOccurs="0"/>
  <xsd:element name="escrow" type=" xsd:boolean " minOccurs="0"/>
  <xsd:element name="sixtyBusinessDaySettlementCap" type=" xsd:boolean " minOccurs="0"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ProtectionTerms**

Super-types:	None
Sub-types:	None

Name	ProtectionTerms
Used by (from the same schema document)	Complex Type <a href="#">CreditDefaultSwap</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <calculationAmount> Money </calculationAmount> [1]
  'The notional amount of protection coverage. ISDA 2003 Term: Floating Rate Payer
  Calculation Amount'

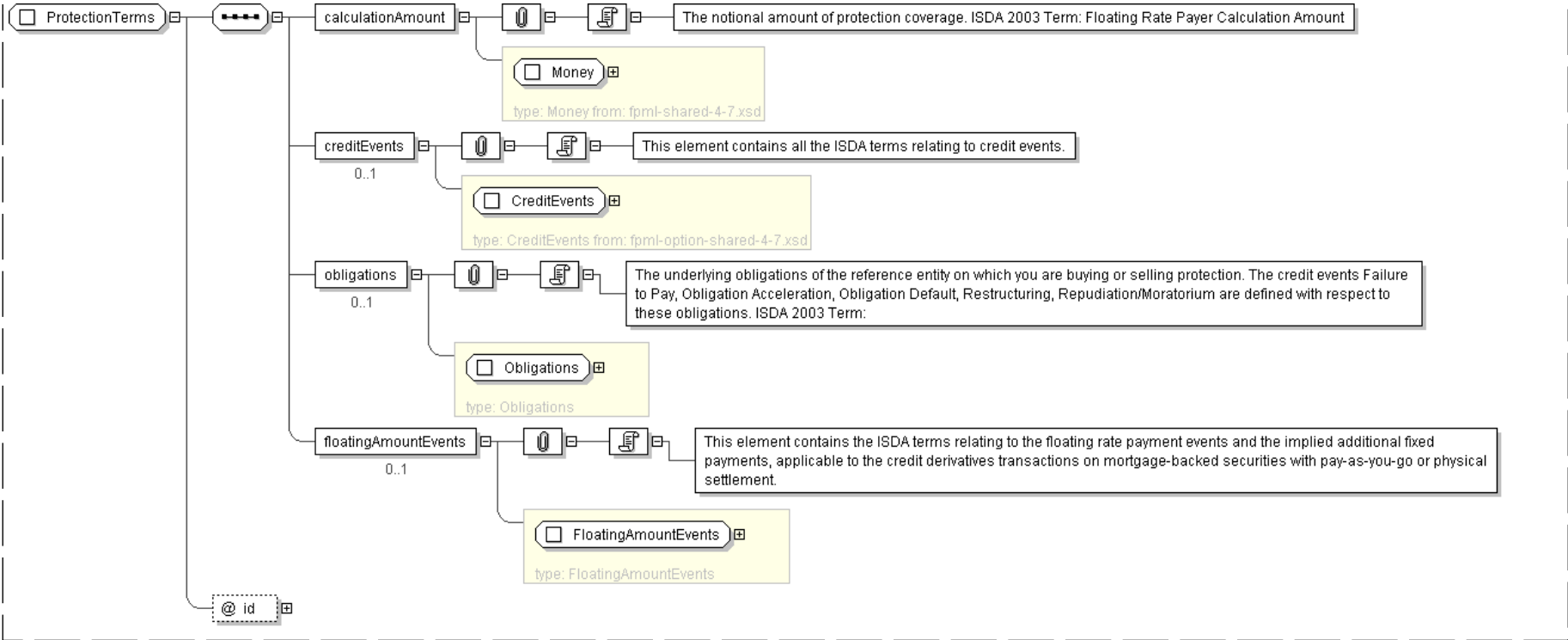
  <creditEvents> CreditEvents </creditEvents> [0..1]
  'This element contains all the ISDA terms relating to credit events.'

  <obligations> Obligations </obligations> [0..1]
  'The underlying obligations of the reference entity on which you are buying or
  selling protection. The credit events Failure to Pay, Obligation Acceleration,
  Obligation Default, Restructuring, Repudiation/Moratorium are defined with respect to
  these obligations. ISDA 2003 Term:'

  <floatingAmountEvents> FloatingAmountEvents </floatingAmountEvents> [0..1]
  'This element contains the ISDA terms relating to the floating rate payment events and
  the implied additional fixed payments, applicable to the credit derivatives transactions
  on mortgage-backed securities with pay-as-you-go or physical settlement.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ProtectionTerms">
  <xsd:sequence>
    <xsd:element name="calculationAmount" type=" Money " />
    <xsd:element name="creditEvents" type=" CreditEvents " minOccurs="0"/>
    <xsd:element name="obligations" type=" Obligations " minOccurs="0"/>
    <xsd:element name="floatingAmountEvents" type=" FloatingAmountEvents " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " use="optional"/>
</xsd:complexType>
```

[top](#)

Complex Type: **ProtectionTermsReference**

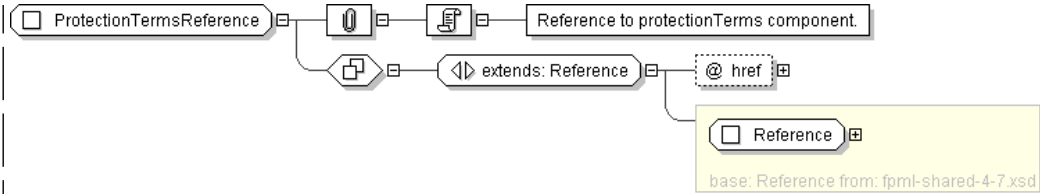
Super-types:	<a href="#">Reference</a> < <b>ProtectionTermsReference</b> (by extension)
Sub-types:	None

Name	ProtectionTermsReference
Used by (from the same schema document)	Complex Type <a href="#">ReferencePoolItem</a>
Abstract	no
Documentation	Reference to protectionTerms component.

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ProtectionTermsReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="ProtectionTerms"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ReferenceInformation**

Super-types:	None
Sub-types:	None
Name	ReferenceInformation
Used by (from the same schema document)	Complex Type <a href="#">GeneralTerms</a>
Abstract	no

XML Instance Representation

```
<...>
<referenceEntity> LegalEntity </referenceEntity> [1]
  'The corporate or sovereign entity on which you are buying or selling protection and
  any successor that assumes all or substantially all of its contractual and other
  obligations. It is vital to use the correct legal name of the entity and to be careful not
  to choose a subsidiary if you really want to trade protection on a parent company. Please
  note, Reference Entities cannot be senior or subordinated. It is the obligations of
  the Reference Entities that can be senior or subordinated. ISDA 2003 Term: Reference Entity'

Start Choice [1]
<referenceObligation> ReferenceObligation </referenceObligation> [1..*]
  'The Reference Obligation is a financial instrument that is either issued or guaranteed by
  the reference entity. It serves to clarify the precise reference entity protection is
  being offered upon, and its legal position with regard to other related firms
  (parents/subsidiaries). Furthermore the Reference Obligation is ALWAYS deliverable
  and establishes the Pari Passu ranking (as the deliverable bonds must rank equal to
  the reference obligation). ISDA 2003 Term: Reference Obligation'

  <noReferenceObligation> Empty </noReferenceObligation> [1]
    'Used to indicate that there is no Reference Obligation associated with this Credit
    Default Swap and that there will never be one.'

  <unknownReferenceObligation> Empty </unknownReferenceObligation> [1]
    'Used to indicate that the Reference obligation associated with the Credit Default Swap
    is currently not known. This is not valid for Legal Confirmation purposes, but is valid
    for earlier stages in the trade life cycle (e.g. Broker Confirmation).'
```

```
<referencePrice> xsd:decimal </referencePrice> [0..1]
```

'Used to determine (a) for physically settled trades, the Physical Settlement Amount, which equals the Floating Rate Payer Calculation Amount times the Reference Price and (b) for cash settled trades, the Cash Settlement Amount, which equals the greater of (i) the difference between the Reference Price and the Final Price and (ii) zero. ISDA 2003 Term: Reference Price'

```
<referencePolicy> Empty </referencePolicy> [0..1]
```

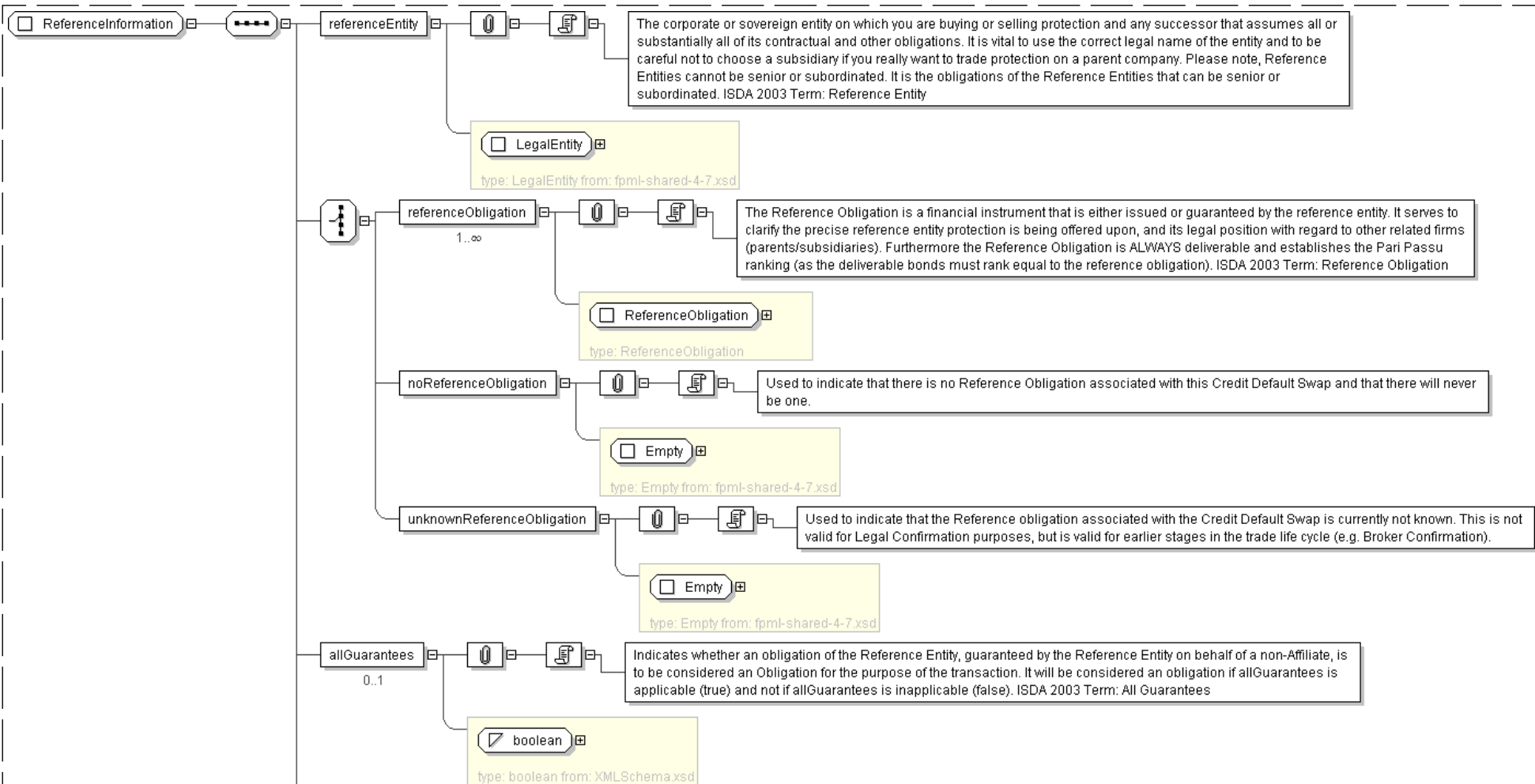
'Applicable to the transactions on mortgage-backed security, which can make use of a reference policy. Presence of the element indicates that the reference policy is applicable; absence implies that it is not.'

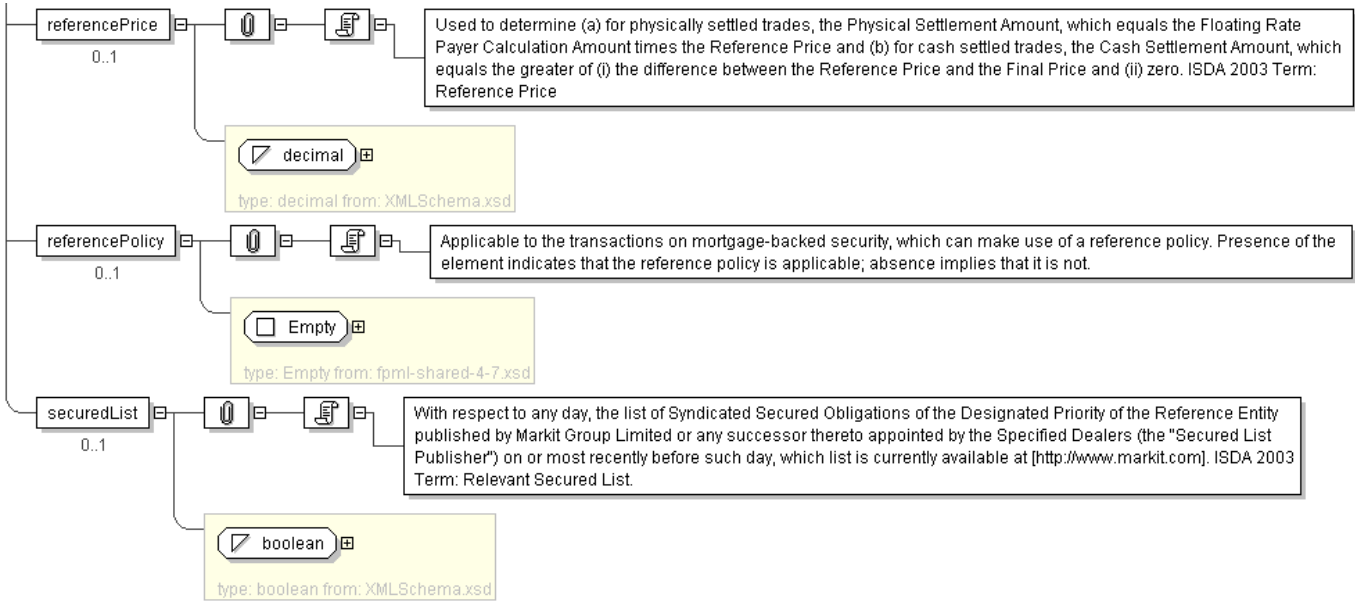
```
<securedList> xsd:boolean </securedList> [0..1]
```

'With respect to any day, the list of Syndicated Secured Obligations of the Designated Priority of the Reference Entity published by Markit Group Limited or any successor thereto appointed by the Specified Dealers (the \"Secured List Publisher\") on or most recently before such day, which list is currently available at [http://www.markit.com]. ISDA 2003 Term: Relevant Secured List.'

```
</...>
```

## Diagram





Schema Component Representation

```
<xsd:complexType name="ReferenceInformation">
  <xsd:sequence>
    <xsd:element name="referenceEntity" type=" LegalEntity " />
    <xsd:choice>
      <xsd:element name="referenceObligation" type=" ReferenceObligation " maxOccurs="unbounded" />
      <xsd:element name="noReferenceObligation" type=" Empty " />
      <xsd:element name="unknownReferenceObligation" type=" Empty " />
    </xsd:choice>
    <xsd:element name="allGuarantees" type=" xsd:boolean " minOccurs="0" />
    <xsd:element name="referencePrice" type=" xsd:decimal " minOccurs="0" />
    <xsd:element name="referencePolicy" type=" Empty " minOccurs="0" />
    <xsd:element name="securedList" type=" xsd:boolean " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReferenceObligation

Super-types:	None
Sub-types:	None
Name	ReferenceObligation
Used by (from the same schema document)	Complex Type <a href="#">ReferenceInformation</a> , Complex Type <a href="#">ReferencePair</a>
Abstract	no

XML Instance Representation

```
<...>
Start Choice [1]
  <bond> ... </bond> [1]
  <convertibleBond> ... </convertibleBond> [1]
  <mortgage> ... </mortgage> [1]
  <loan> ... </loan> [1]
End Choice
```

```

Start Choice [0..1]
  <primaryObligor> LegalEntity </primaryObligor> [1]
  'The entity primarily responsible for repaying debt to a creditor as a result of borrowing
  or issuing bonds. ISDA 2003 Term: Primary Obligor'

  <primaryObligorReference> LegalEntityReference </primaryObligorReference> [1]
  'A pointer style reference to a reference entity defined elsewhere in the document. Used
  when the reference entity is the primary obligor.'

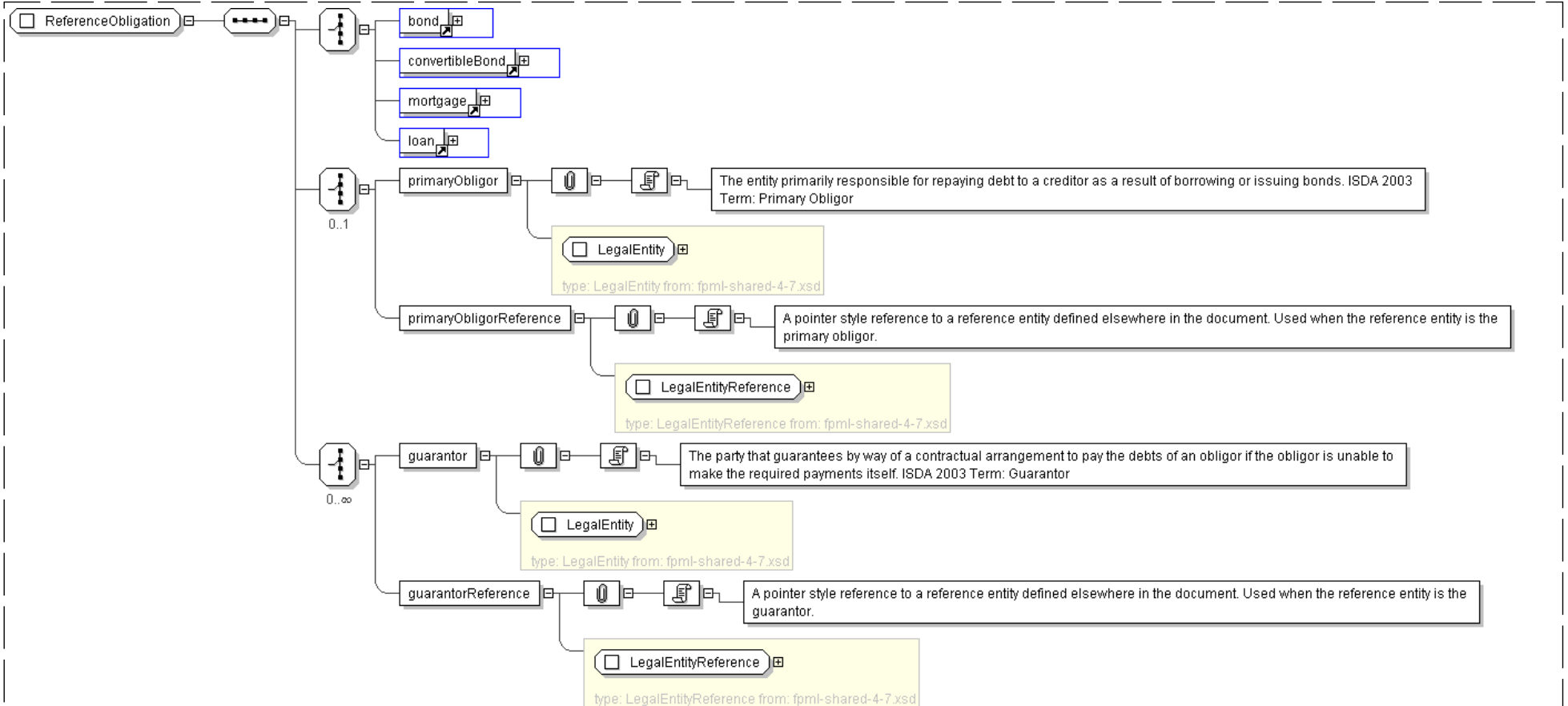
End Choice
Start Choice [0..*]
  <guarantor> LegalEntity </guarantor> [1]
  'The party that guarantees by way of a contractual arrangement to pay the debts of an
  obligor if the obligor is unable to make the required payments itself. ISDA 2003
  Term: Guarantor'

  <guarantorReference> LegalEntityReference </guarantorReference> [1]
  'A pointer style reference to a reference entity defined elsewhere in the document. Used
  when the reference entity is the guarantor.'

End Choice
</...>

```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="ReferenceObligation">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element ref="bond" />
      <xsd:element ref="convertibleBond" />
      <xsd:element ref="mortgage" />
      <xsd:element ref="loan" />
    </xsd:choice>
    <xsd:choice minOccurs="0">
      <xsd:element name="primaryObligor" type="LegalEntity" />
      <xsd:element name="primaryObligorReference" type="LegalEntityReference" />
    </xsd:choice>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element name="guarantor" type="LegalEntity" />
      <xsd:element name="guarantorReference" type="LegalEntityReference" />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ReferencePair**

Super-types:	None
Sub-types:	None

Name	ReferencePair
Used by (from the same schema document)	Complex Type <a href="#">ReferencePoolItem</a>
Abstract	no

XML Instance Representation

```
<...>
<referenceEntity> LegalEntity </referenceEntity> [1]
  'The corporate or sovereign entity on which you are buying or selling protection and
  any successor that assumes all or substantially all of its contractual and other
  obligations. It is vital to use the correct legal name of the entity and to be careful not
  to choose a subsidiary if you really want to trade protection on a parent company. Please
  note, Reference Entities cannot be senior or subordinated. It is the obligations of
  the Reference Entities that can be senior or subordinated. ISDA 2003 Term: Reference Entity'

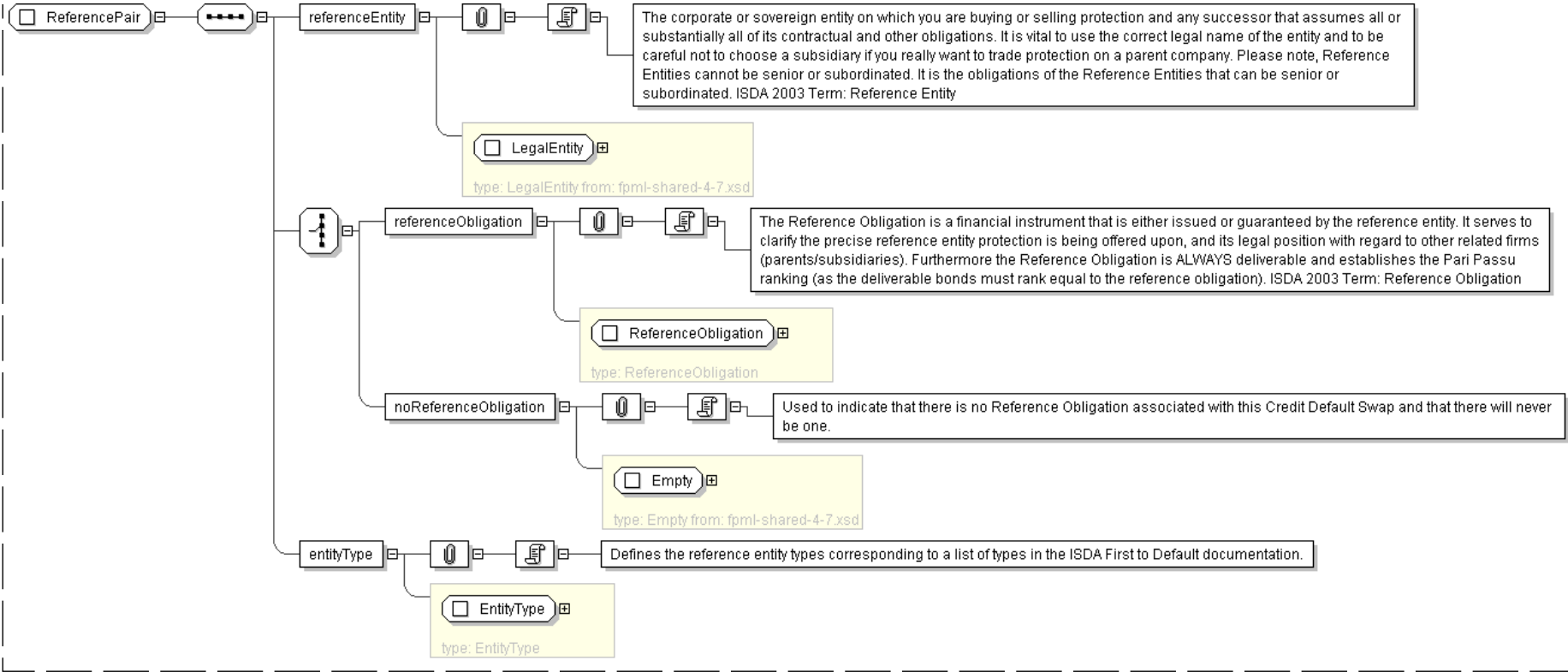
Start Choice [1]
<referenceObligation> ReferenceObligation </referenceObligation> [1]
  'The Reference Obligation is a financial instrument that is either issued or guaranteed by
  the reference entity. It serves to clarify the precise reference entity protection is
  being offered upon, and its legal position with regard to other related firms
  (parents/subsidiaries). Furthermore the Reference Obligation is ALWAYS deliverable
  and establishes the Pari Passu ranking (as the deliverable bonds must rank equal to
  the reference obligation). ISDA 2003 Term: Reference Obligation'

  <noReferenceObligation> Empty </noReferenceObligation> [1]
    'Used to indicate that there is no Reference Obligation associated with this Credit
    Default Swap and that there will never be one.'

End Choice
<entityType> EntityType </entityType> [1]
  'Defines the reference entity types corresponding to a list of types in the ISDA First
  to Default documentation.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReferencePair">
  <xsd:sequence>
    <xsd:element name="referenceEntity" type=" LegalEntity " />
    <xsd:choice>
      <xsd:element name="referenceObligation" type=" ReferenceObligation " />
      <xsd:element name="noReferenceObligation" type=" Empty " />
    </xsd:choice>
    <xsd:element name="entityType" type=" EntityType " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReferencePool

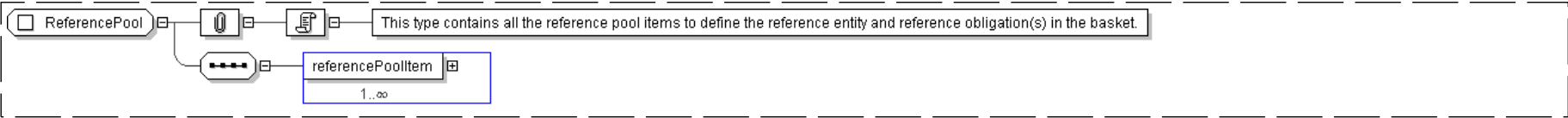
Super-types:	None
Sub-types:	None
Name	ReferencePool
Used by (from the same schema document)	Complex Type <a href="#">BasketReferenceInformation</a>
Abstract	no
Documentation	This type contains all the reference pool items to define the reference entity and reference obligation(s) in the basket.

XML Instance Representation

```
<...>
  <referencePoolItem> ReferencePoolItem </referencePoolItem> [1..*]
</...>
```



Diagram



Schema Component Representation

```
<xsd:complexType name="ReferencePool">
  <xsd:sequence>
    <xsd:element name="referencePoolItem" type="ReferencePoolItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReferencePoolItem

Super-types:	None
Sub-types:	None
Name	ReferencePoolItem
Used by (from the same schema document)	Complex Type <a href="#">ReferencePool</a>
Abstract	no
Documentation	This type contains all the constituent weight and reference information.

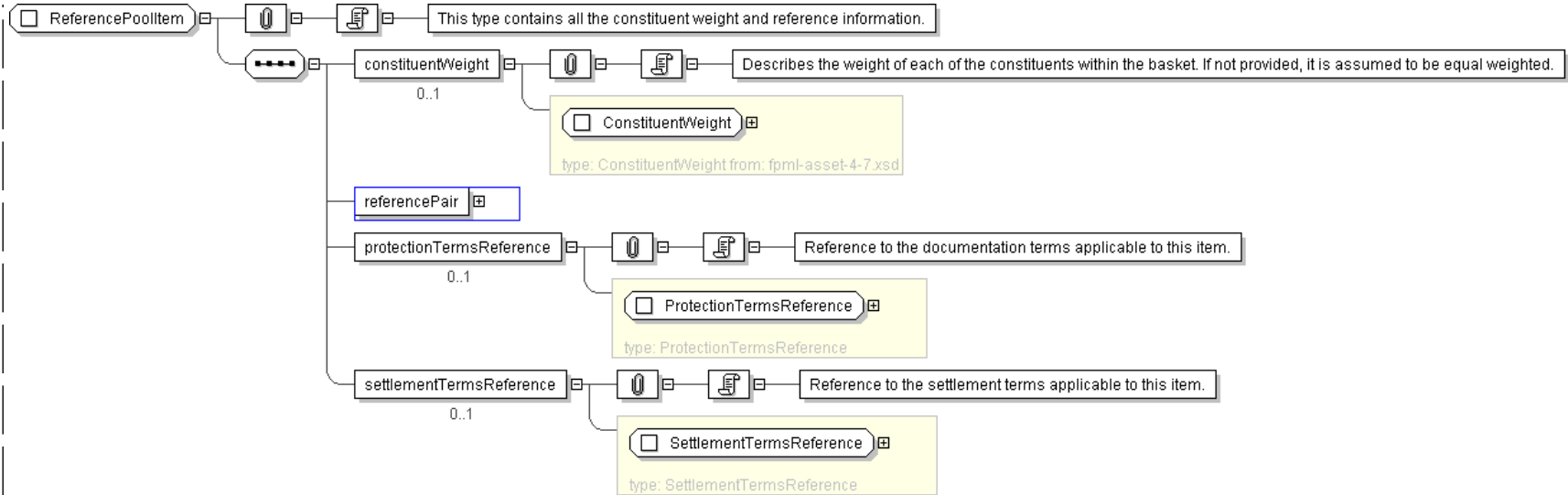
XML Instance Representation

```
<...>
  <constituentWeight> ConstituentWeight </constituentWeight> [0..1]
  'Describes the weight of each of the constituents within the basket. If not provided, it
  is assumed to be equal weighted.'

  <referencePair> ReferencePair </referencePair> [1]
  <protectionTermsReference> ProtectionTermsReference </protectionTermsReference> [0..1]
  'Reference to the documentation terms applicable to this item.'

  <settlementTermsReference> SettlementTermsReference </settlementTermsReference> [0..1]
  'Reference to the settlement terms applicable to this item.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReferencePoolItem">
  <xsd:sequence>
    <xsd:element name="constituentWeight" type="ConstituentWeight" minOccurs="0"/>
    <xsd:element name="referencePair" type="ReferencePair" />
    <xsd:element name="protectionTermsReference" type="ProtectionTermsReference" minOccurs="0"/>
    <xsd:element name="settlementTermsReference" type="SettlementTermsReference" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ScheduledTerminationDate**

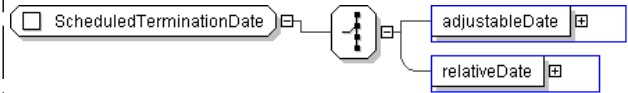
Super-types:	None
Sub-types:	None

Name	ScheduledTerminationDate
Abstract	no

XML Instance Representation

```
<...>
Start Choice [1]
  <adjustableDate> AdjustableDate2 </adjustableDate> [1]
  <relativeDate> Period </relativeDate> [1]
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ScheduledTerminationDate">
  <xsd:choice>
```

```
<xsd:element name="adjustableDate" type=" AdjustableDate2 " />
<xsd:element name="relativeDate" type=" Period " />
</xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: **SettledEntityMatrix**

Super-types:	None
Sub-types:	None
Name	SettledEntityMatrix
Used by (from the same schema document)	Complex Type <a href="#">IndexReferenceInformation</a>
Abstract	no

XML Instance Representation

<...>

<matrixSource> [MatrixSource](#) </matrixSource> [1]

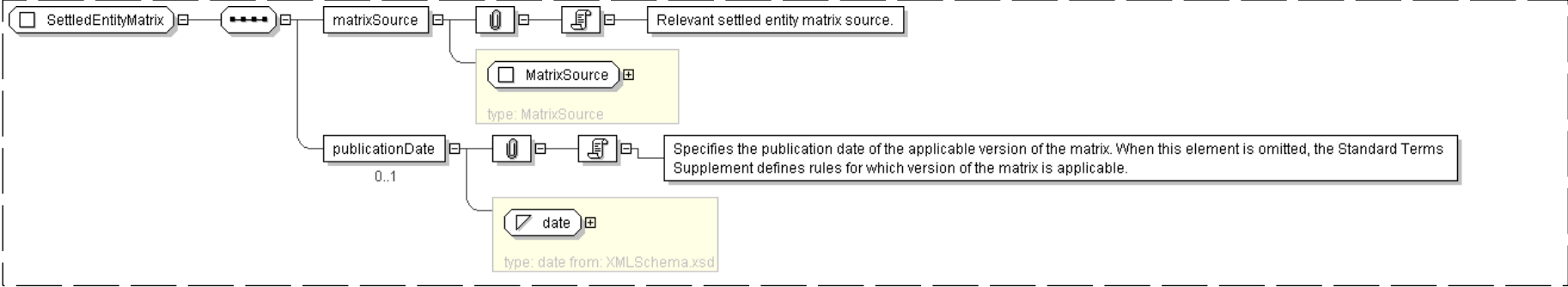
'Relevant settled entity matrix source.'

<publicationDate> [xsd:date](#) </publicationDate> [0..1]

'Specifies the publication date of the applicable version of the matrix. When this element is omitted, the Standard Terms Supplement defines rules for which version of the matrix is applicable.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="SettledEntityMatrix">
  <xsd:sequence>
    <xsd:element name="matrixSource" type=" MatrixSource " />
    <xsd:element name="publicationDate" type=" xsd:date " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **SettlementTerms**

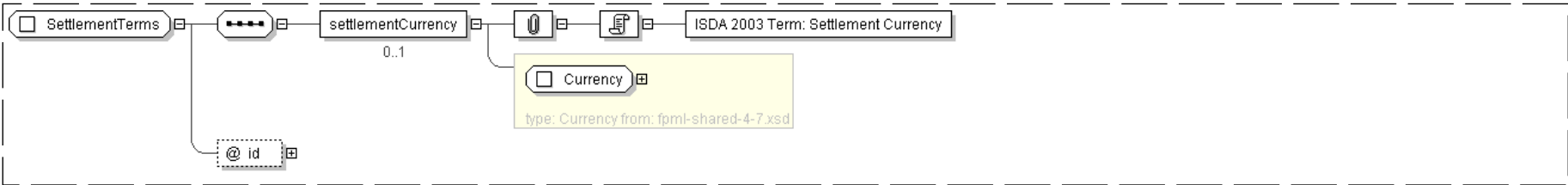
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">CashSettlementTerms</a> (by extension)</li><li><a href="#">PhysicalSettlementTerms</a> (by extension)</li></ul>

Name	SettlementTerms
Abstract	no

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <settlementCurrency> Currency </settlementCurrency> [0..1]  
  'ISDA 2003 Term: Settlement Currency'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementTerms">  
  <xsd:sequence>  
    <xsd:element name="settlementCurrency" type=" Currency " minOccurs="0"/>  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID " use="optional"/>  
</xsd:complexType>
```

[top](#)

Complex Type: **SettlementTermsReference**

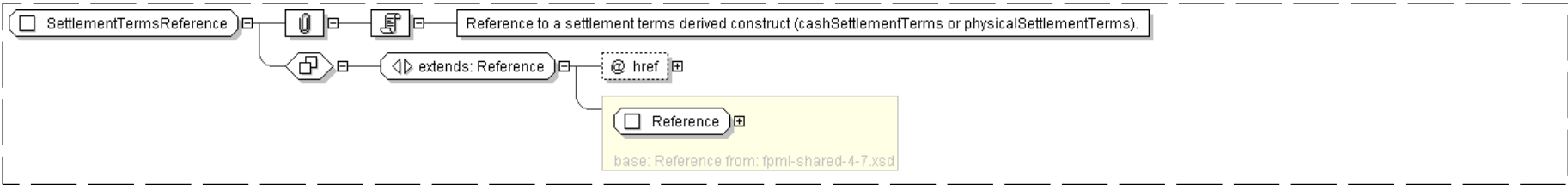
Super-types:	<a href="#">Reference</a> < <b>SettlementTermsReference</b> (by extension)
Sub-types:	None

Name	SettlementTermsReference
Used by (from the same schema document)	Complex Type <a href="#">ReferencePoolItem</a>
Abstract	no
Documentation	Reference to a settlement terms derived construct (cashSettlementTerms or physicalSettlementTerms).

XML Instance Representation

```
<...  
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementTermsReference">  
  <xsd:complexContent>
```

```
<xsd:extension base=" Reference "><xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="SettlementTerms"/></xsd:extension></xsd:complexContent></xsd:complexType>
```

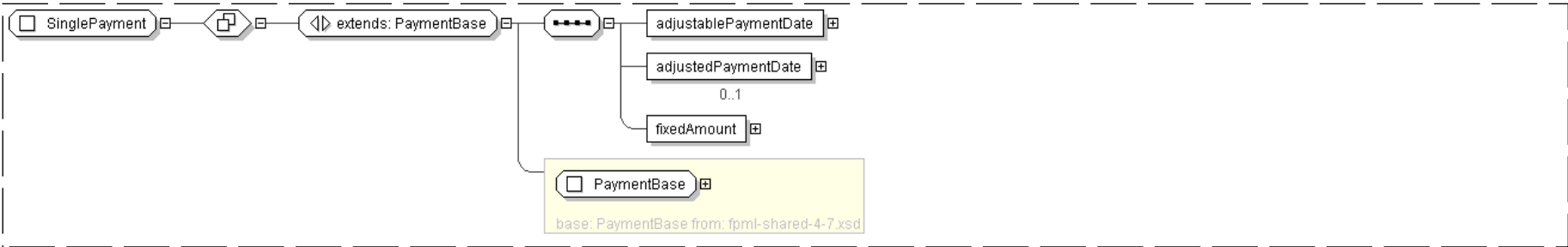
Complex Type: **SinglePayment**

Super-types:	<a href="#">PaymentBase</a> < <b>SinglePayment</b> (by extension)
Sub-types:	None
Name	SinglePayment
Used by (from the same schema document)	Complex Type <a href="#">FeeLeg</a>
Abstract	no

XML Instance Representation

```
<...>id=" xsd:ID [0..1]"*><adjustablePaymentDate> xsd:date </adjustablePaymentDate> [1]<br><i>'A fixed amount payment date that shall be subject to adjustment in accordance with the applicable business day convention if it would otherwise fall on a day that is not a business day. The applicable business day convention and business day are those specified in the dateAdjustments element within the generalTerms component. ISDA 2003 Term: Fixed Rate Payer Payment Date'</i><br><adjustedPaymentDate> xsd:date </adjustedPaymentDate> [0..1]<br><i>'The adjusted payment date. This date should already be adjusted for any applicable business day convention. This component is not intended for use in trade confirmation but may be specified to allow the fee structure to also serve as a cashflow type component.'</i><br><fixedAmount> Money </fixedAmount> [1]<br><i>'A fixed payment amount. ISDA 2003 Term: Fixed Amount'</i><br></...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SinglePayment"><xsd:complexContent><xsd:extension base=" PaymentBase "><xsd:sequence><xsd:element name="adjustablePaymentDate" type=" xsd:date " /><xsd:element name="adjustedPaymentDate" type=" xsd:date " minOccurs="0" /><xsd:element name="fixedAmount" type=" Money " /></xsd:sequence></xsd:extension></xsd:complexContent>
```

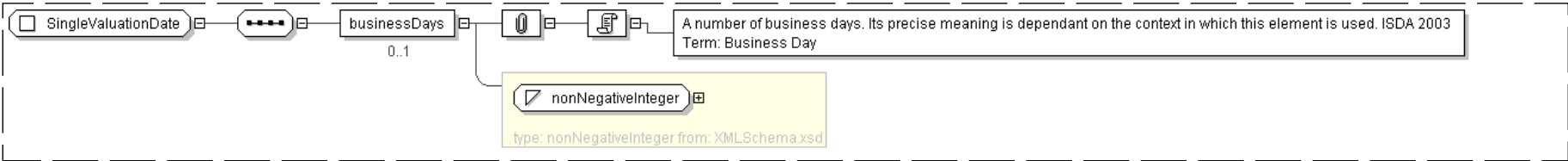
Complex Type: **SingleValuationDate**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">MultipleValuationDates</a> (by extension)</li></ul>
Name	SingleValuationDate
Used by (from the same schema document)	Complex Type <a href="#">ValuationDate</a>
Abstract	no

XML Instance Representation

```
<...>
  <businessDays> xsd:nonNegativeInteger </businessDays> [0..1]
  'A number of business days. Its precise meaning is dependant on the context in which
  this element is used. ISDA 2003 Term: Business Day'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SingleValuationDate">
  <xsd:sequence>
    <xsd:element name="businessDays" type=" xsd:nonNegativeInteger " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

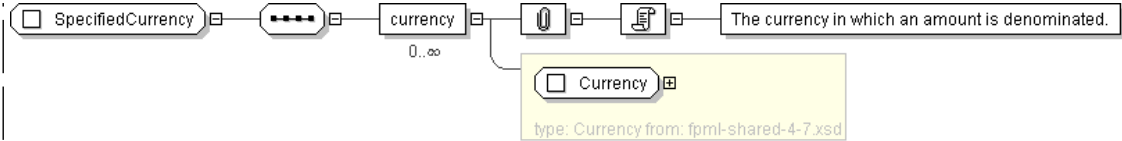
Complex Type: **SpecifiedCurrency**

Super-types:	None
Sub-types:	None
Name	SpecifiedCurrency
Used by (from the same schema document)	Complex Type <a href="#">DeliverableObligations</a> , Complex Type <a href="#">Obligations</a>
Abstract	no

XML Instance Representation

```
<...>
  <currency> Currency </currency> [0..*]
  'The currency in which an amount is denominated.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SpecifiedCurrency">
  <xsd:sequence>
    <xsd:element name="currency" type="Currency" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Tranche**

Super-types:	None
Sub-types:	None
Name	Tranche
Used by (from the same schema document)	Complex Type <a href="#">BasketReferenceInformation</a> , Complex Type <a href="#">IndexReferenceInformation</a>
Abstract	no
Documentation	This type represents a CDS Tranche.

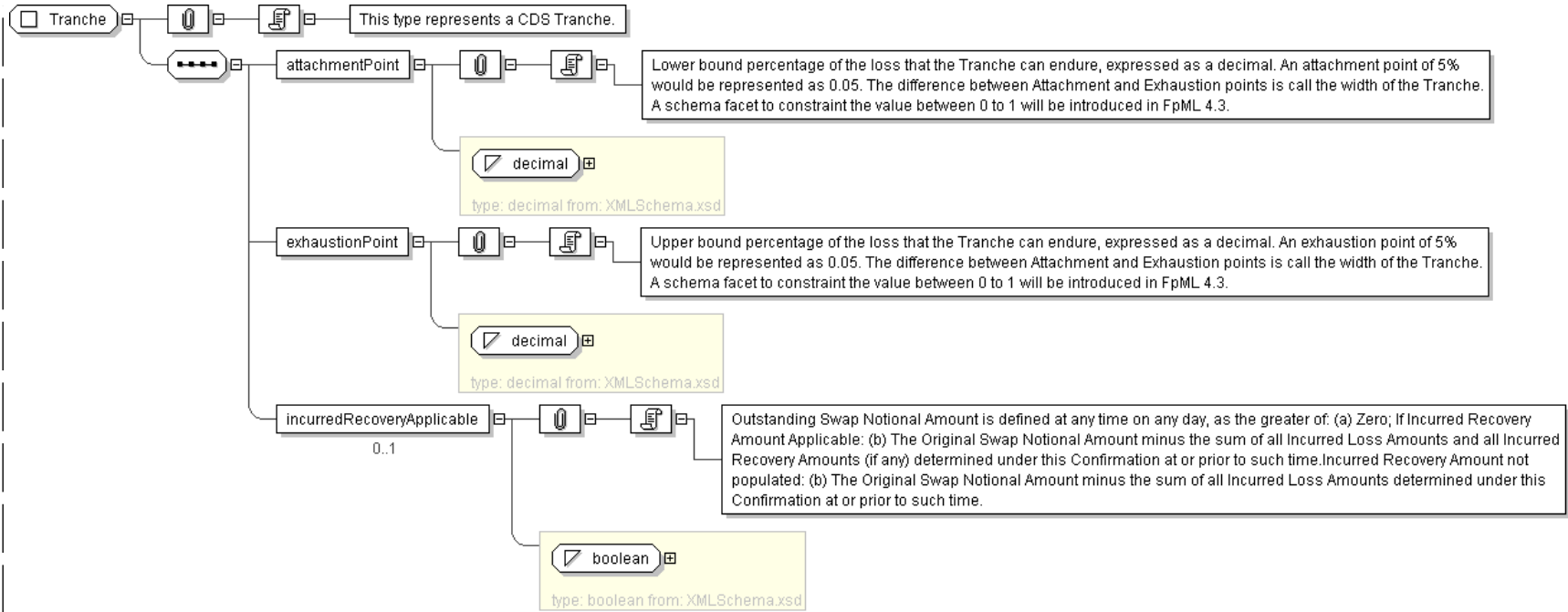
XML Instance Representation

```
<...>
  <attachmentPoint> xsd:decimal </attachmentPoint> [1]
  'Lower bound percentage of the loss that the Tranche can endure, expressed as a decimal.
  An attachment point of 5% would be represented as 0.05. The difference between Attachment
  and Exhaustion points is call the width of the Tranche. A schema facet to constraint the
  value between 0 to 1 will be introduced in FpML 4.3.'

  <exhaustionPoint> xsd:decimal </exhaustionPoint> [1]
  'Upper bound percentage of the loss that the Tranche can endure, expressed as a decimal.
  An exhaustion point of 5% would be represented as 0.05. The difference between Attachment
  and Exhaustion points is call the width of the Tranche. A schema facet to constraint the
  value between 0 to 1 will be introduced in FpML 4.3.'

  <incurredRecoveryApplicable> xsd:boolean </incurredRecoveryApplicable> [0..1]
  'Outstanding Swap Notional Amount is defined at any time on any day, as the greater of:
  (a) Zero; If Incurred Recovery Amount Applicable: (b) The Original Swap Notional Amount
  minus the sum of all Incurred Loss Amounts and all Incurred Recovery Amounts (if
  any) determined under this Confirmation at or prior to such time.Incurred Recovery Amount
  not populated: (b) The Original Swap Notional Amount minus the sum of all Incurred Loss
  Amounts determined under this Confirmation at or prior to such time.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Tranche">
  <xsd:sequence>
    <xsd:element name="attachmentPoint" type="xsd:decimal" />
    <xsd:element name="exhaustionPoint" type="xsd:decimal" />
    <xsd:element name="incurredRecoveryApplicable" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: ValuationDate

Super-types:	None
Sub-types:	None
Name	ValuationDate
Used by (from the same schema document)	Complex Type <a href="#">CashSettlementTerms</a>
Abstract	no

XML Instance Representation

```
<...>
Start Choice [1]
<singleValuationDate> SingleValuationDate </singleValuationDate> [1]
'Where single valuation date is specified as being applicable for cash settlement, this
element specifies the number of business days after satisfaction of all conditions
to settlement when such valuation date occurs. ISDA 2003 Term: Single Valuation Date'

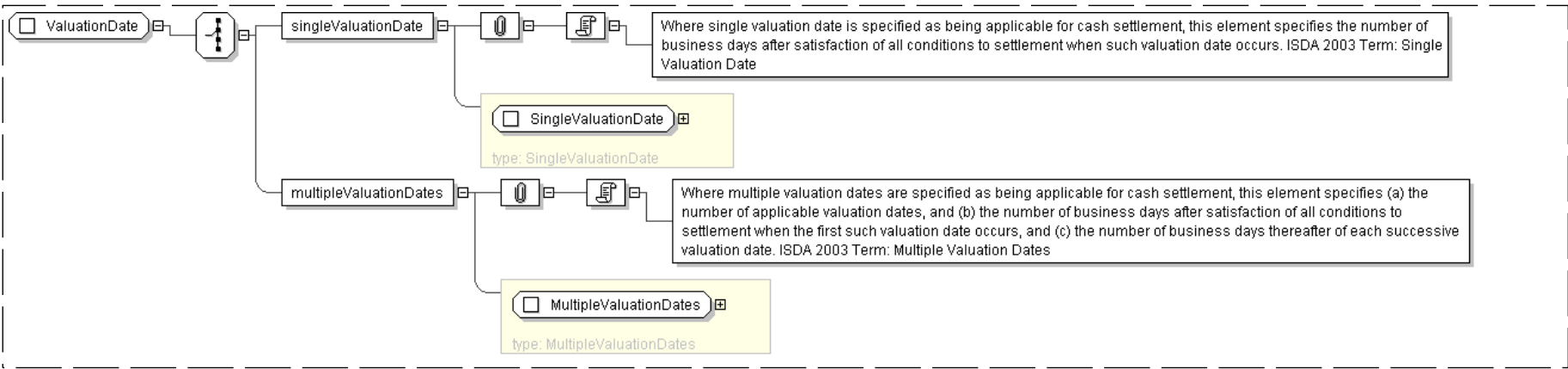
<multipleValuationDates> MultipleValuationDates </multipleValuationDates> [1]
'Where multiple valuation dates are specified as being applicable for cash settlement,
this element specifies (a) the number of applicable valuation dates, and (b) the number
of business days after satisfaction of all conditions to settlement when the first
such valuation date occurs, and (c) the number of business days thereafter of each
```



successive valuation date. ISDA 2003 Term: Multiple Valuation Dates'

End Choice  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ValuationDate">
  <xsd:choice>
    <xsd:element name="singleValuationDate" type="SingleValuationDate" />
    <xsd:element name="multipleValuationDates" type="MultipleValuationDates" />
  </xsd:choice>
</xsd:complexType>
```

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Model Group: FixedRecovery.model

Name	FixedRecovery.model
Used by (from the same schema document)	Complex Type <a href="#">CashSettlementTerms</a>

XML Instance Representation

Start Choice [1]

<cashSettlementAmount> Money </cashSettlementAmount> [1]

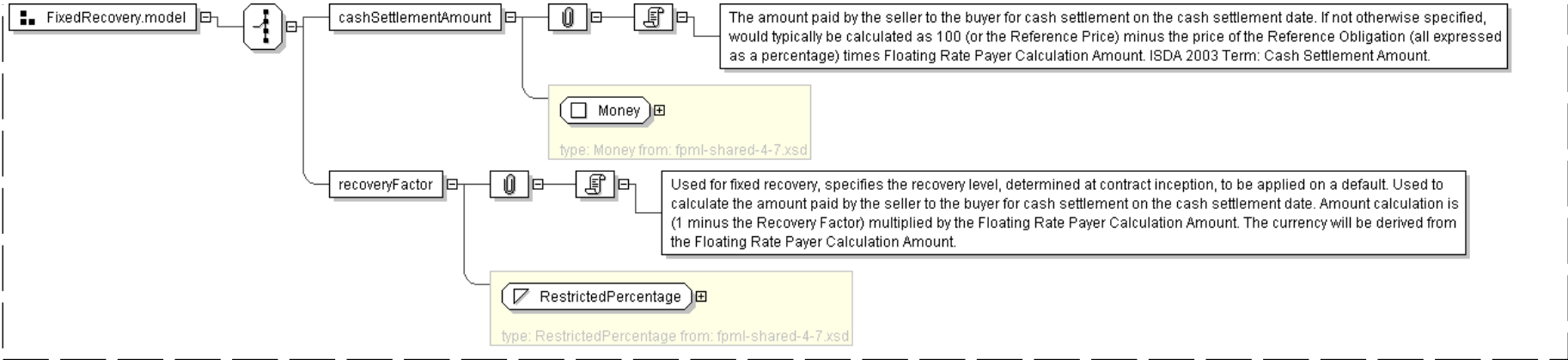
'The amount paid by the seller to the buyer for cash settlement on the cash settlement date. If not otherwise specified, would typically be calculated as 100 (or the Reference Price) minus the price of the Reference Obligation (all expressed as a percentage) times Floating Rate Payer Calculation Amount. ISDA 2003 Term: Cash Settlement Amount.'

<recoveryFactor> RestrictedPercentage </recoveryFactor> [1]

'Used for fixed recovery, specifies the recovery level, determined at contract inception, to be applied on a default. Used to calculate the amount paid by the seller to the buyer for cash settlement on the cash settlement date. Amount calculation is (1 minus the Recovery Factor) multiplied by the Floating Rate Payer Calculation Amount. The currency will be derived from the Floating Rate Payer Calculation Amount.'

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="FixedRecovery.model">
  <xsd:choice>
    <xsd:element name="cashSettlementAmount" type=" Money " />
    <xsd:element name="recoveryFactor" type=" RestrictedPercentage " />
  </xsd:choice>
</xsd:group>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.

- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates " />
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}" />
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia" />
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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Target Namespace	http://www.fpml.org/2009/FpML-4-7
Version	\$Revision: 2406 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>fpml-option-shared-4-7.xsd</li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	http://www.fpml.org/2009/FpML-4-7
ecore	http://www.eclipse.org/emf/2002/Ecore
xml	http://www.w3.org/XML/1998/namespace
fpml-annotation	http://www.fpml.org/annotation
xsd	http://www.w3.org/2001/XMLSchema
fpml	http://www.fpml.org/2009/FpML-4-7

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 2406 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-option-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

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Global Declarations

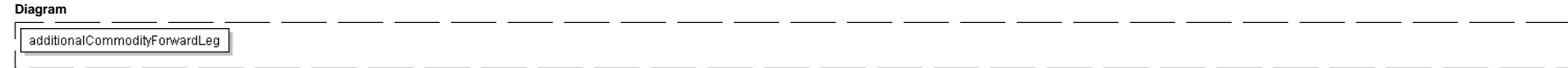
Element: **additionalCommodityForwardLeg**

Name	additionalCommodityForwardLeg
Used by (from the same schema document)	Complex Type <a href="#">CommodityForward</a>
Type	anyType
Nilable	no
Abstract	yes



XML Instance Representation

```
<additionalCommodityForwardLeg> ... </additionalCommodityForwardLeg>
```



Schema Component Representation

```
<xsd:element name="additionalCommodityForwardLeg" abstract="true"/>
```

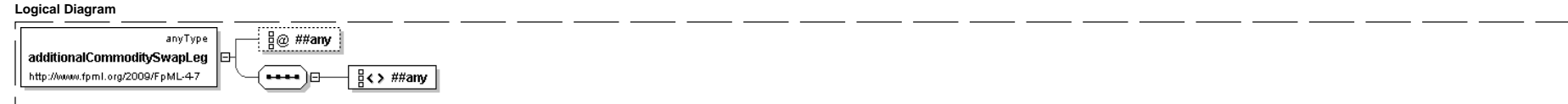
[top](#)

Element: **additionalCommoditySwapLeg**

Name	additionalCommoditySwapLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Type	anyType
Nilable	no

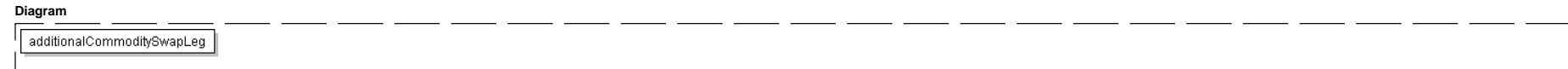
Abstract

yes



XML Instance Representation

```
<additionalCommoditySwapLeg> ... </additionalCommoditySwapLeg>
```



Schema Component Representation

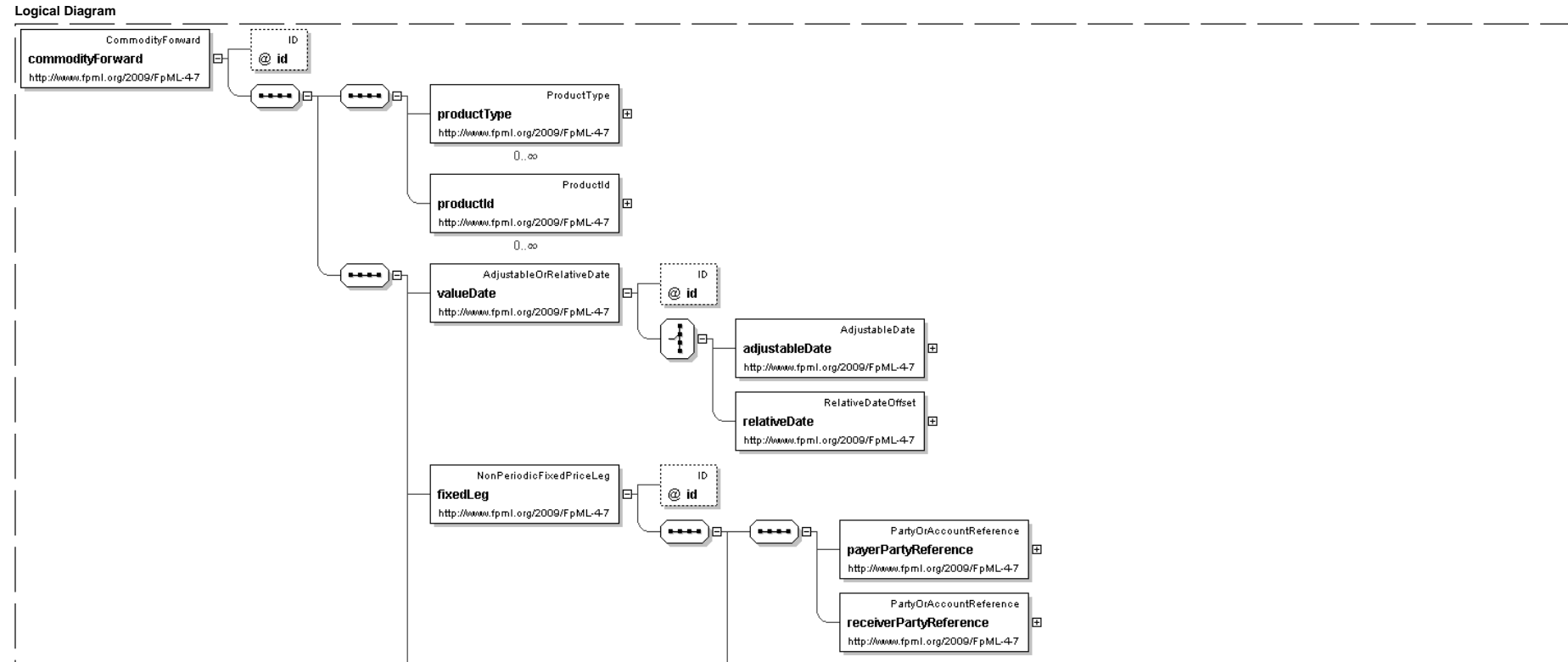
```
<xsd:element name="additionalCommoditySwapLeg" abstract="true"/>
```

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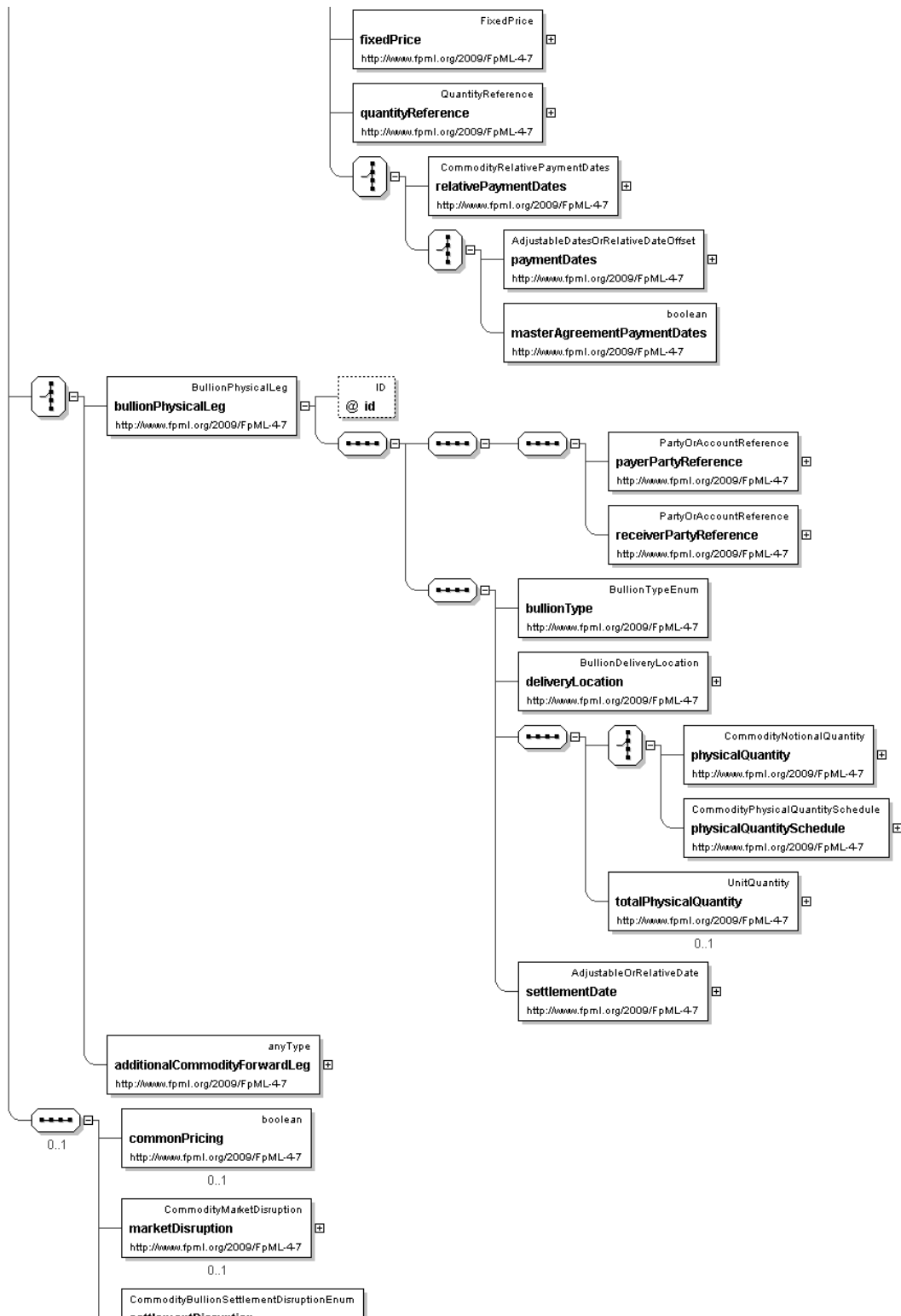
Element: **commodityForward**

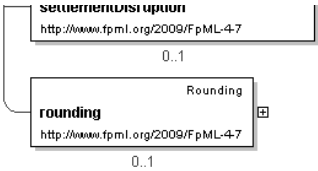
- This element can be used wherever the following element is referenced:
  - [product](#)

Name	commodityForward
Type	<a href="#">CommodityForward</a>
Nilable	no
Abstract	no
Documentation	Defines a commodity forward product.









XML Instance Representation

```
<commodityForward
id=" xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <valueDate> AdjustableOrRelativeDate </valueDate> [1]
  'Specifies the value date of the Commodity Forward Transaction. This is the day on which
  both the cash and the physical commodity settle.'

  <fixedLeg> NonPeriodicFixedPriceLeg </fixedLeg> [1]
  'The fixed leg of a Commodity Forward Transaction'

  Start Choice [1]
  'This choice group is intended to allow legs based on different classes of commodity to
  be added to the schema as this becomes necessary.'

  <bullionPhysicalLeg> BullionPhysicalLeg </bullionPhysicalLeg> [1]
  'The physical leg of a Commodity Forward Transaction for which the underlyer is Bullion.'

  <additionalCommodityForwardLeg> ... </additionalCommodityForwardLeg> [1]
End Choice
Start Group: CommodityContent.model [0..1]
  <commonPricing> xsd:boolean </commonPricing> [0..1]
  'Common pricing may be relevant for a Transaction that references more than one
  Commodity Reference Price. If Common Pricing is not specified as applicable, it will be
  deemed not to apply.'

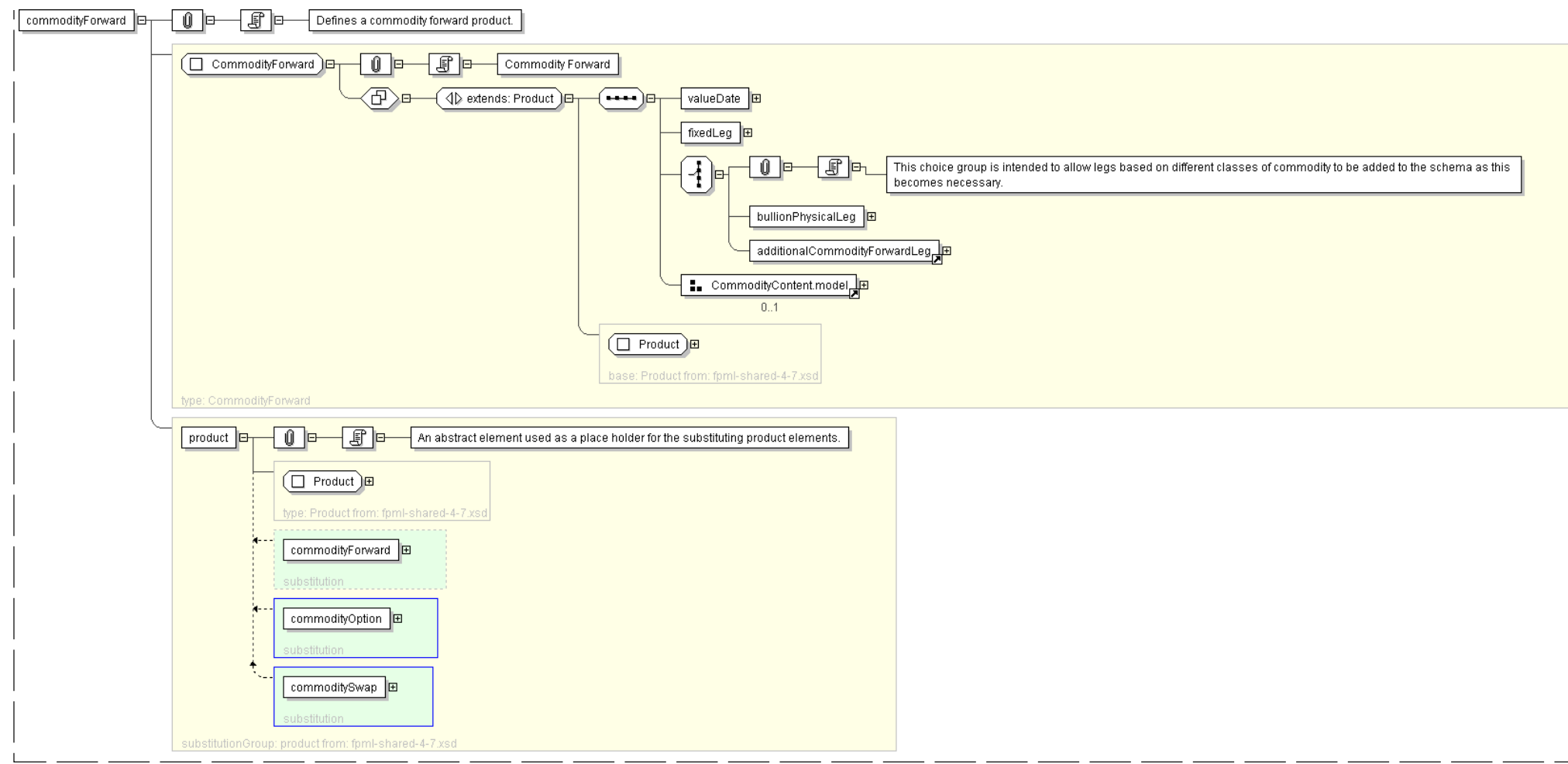
  <marketDisruption> CommodityMarketDisruption </marketDisruption> [0..1]
  'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA
  2005 Commodity Definitions, as applicable.'

  <settlementDisruption> CommodityBullionSettlementDisruptionEnum </settlementDisruption> [0..1]
  'The consequences of Bullion Settlement Disruption Events.'

  <rounding> Rounding </rounding> [0..1]
  'Rounding direction and precision for amounts.'

End Group: CommodityContent.model
</commodityForward>
```

Diagram



Schema Component Representation

```
<xsd:element name="commodityForward" type="CommodityForward" substitutionGroup="product"/>
```

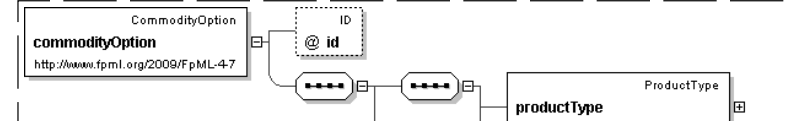
[top](#)

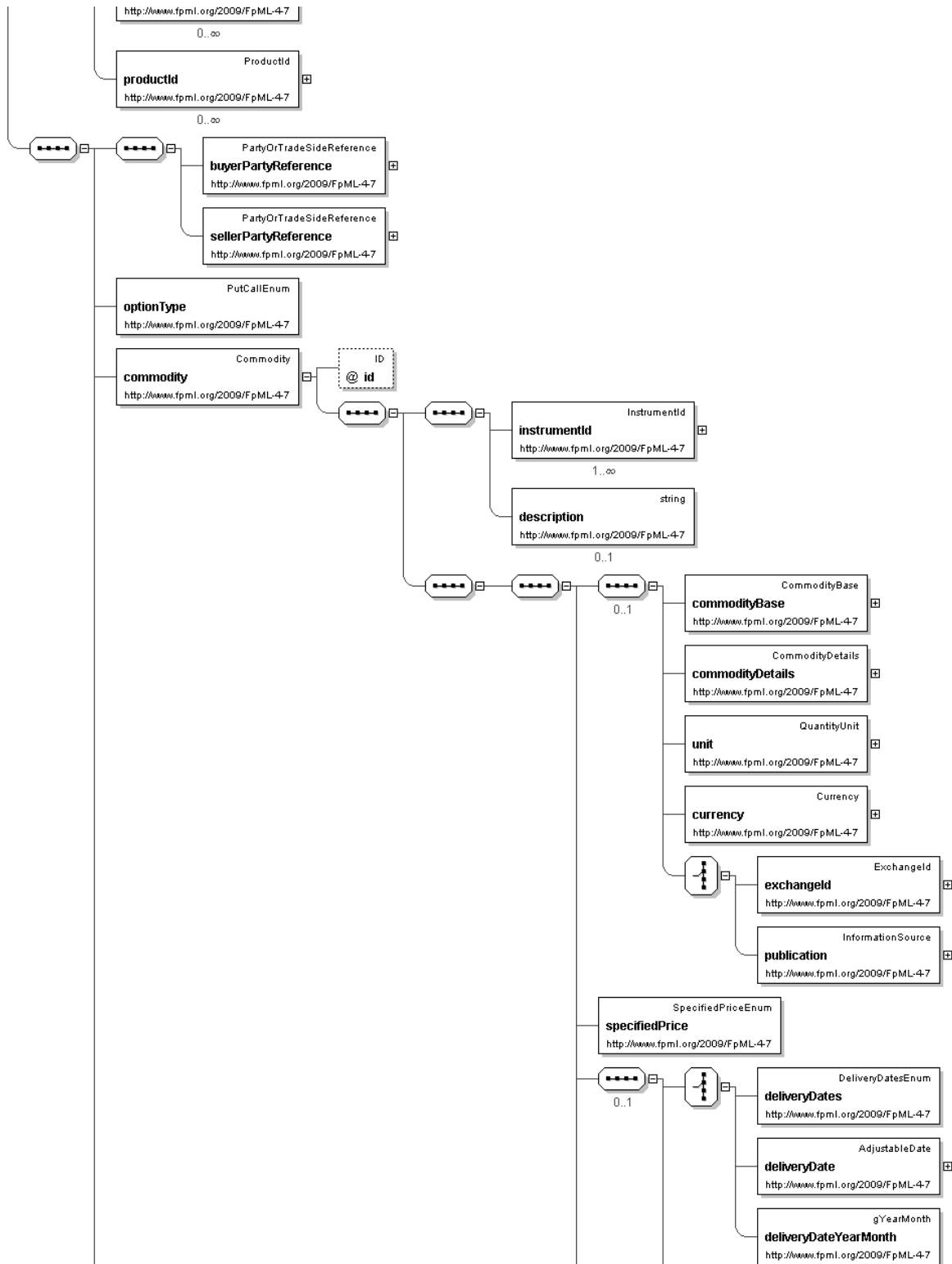
Element: commodityOption

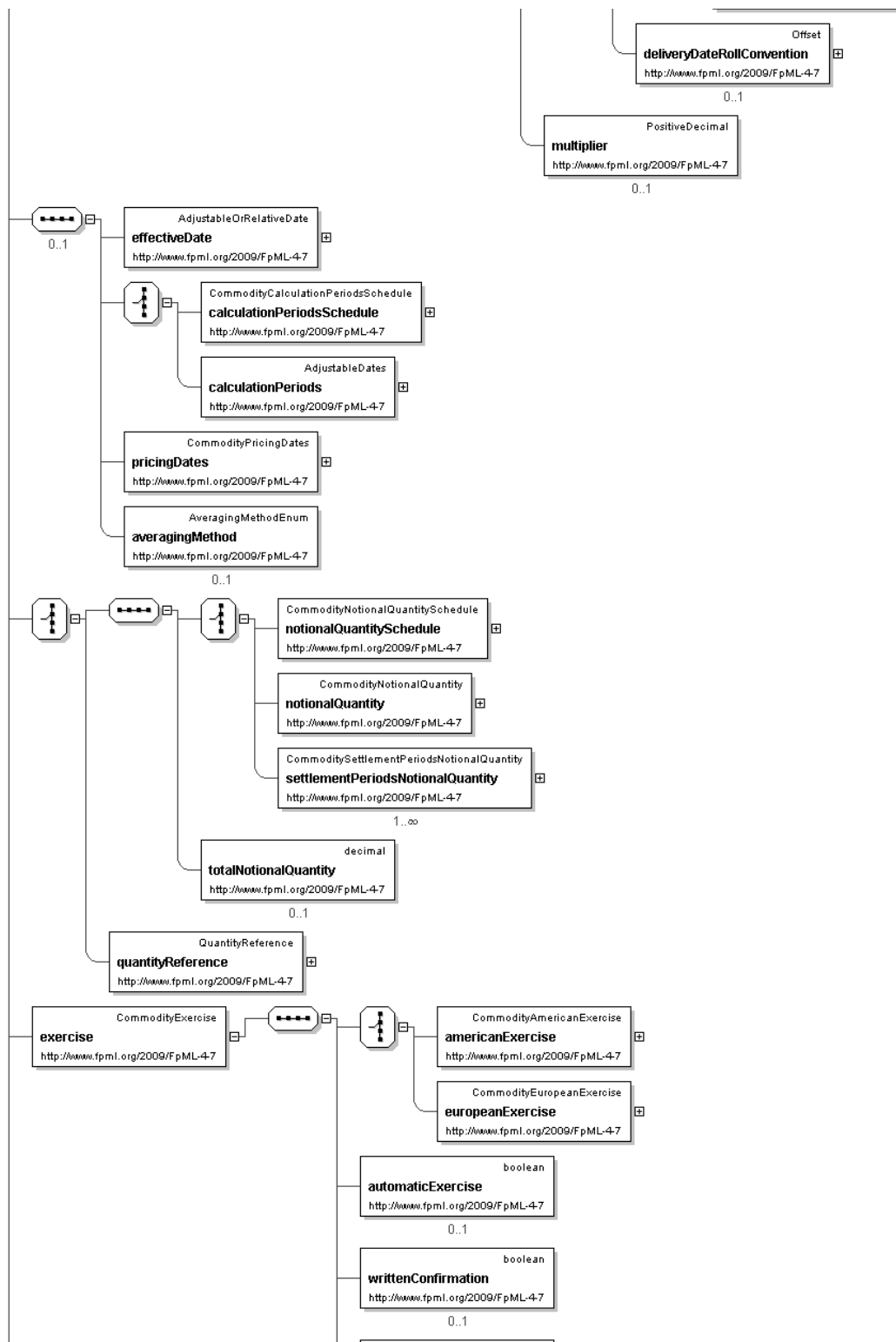
- This element can be used wherever the following element is referenced:
  - [product](#)

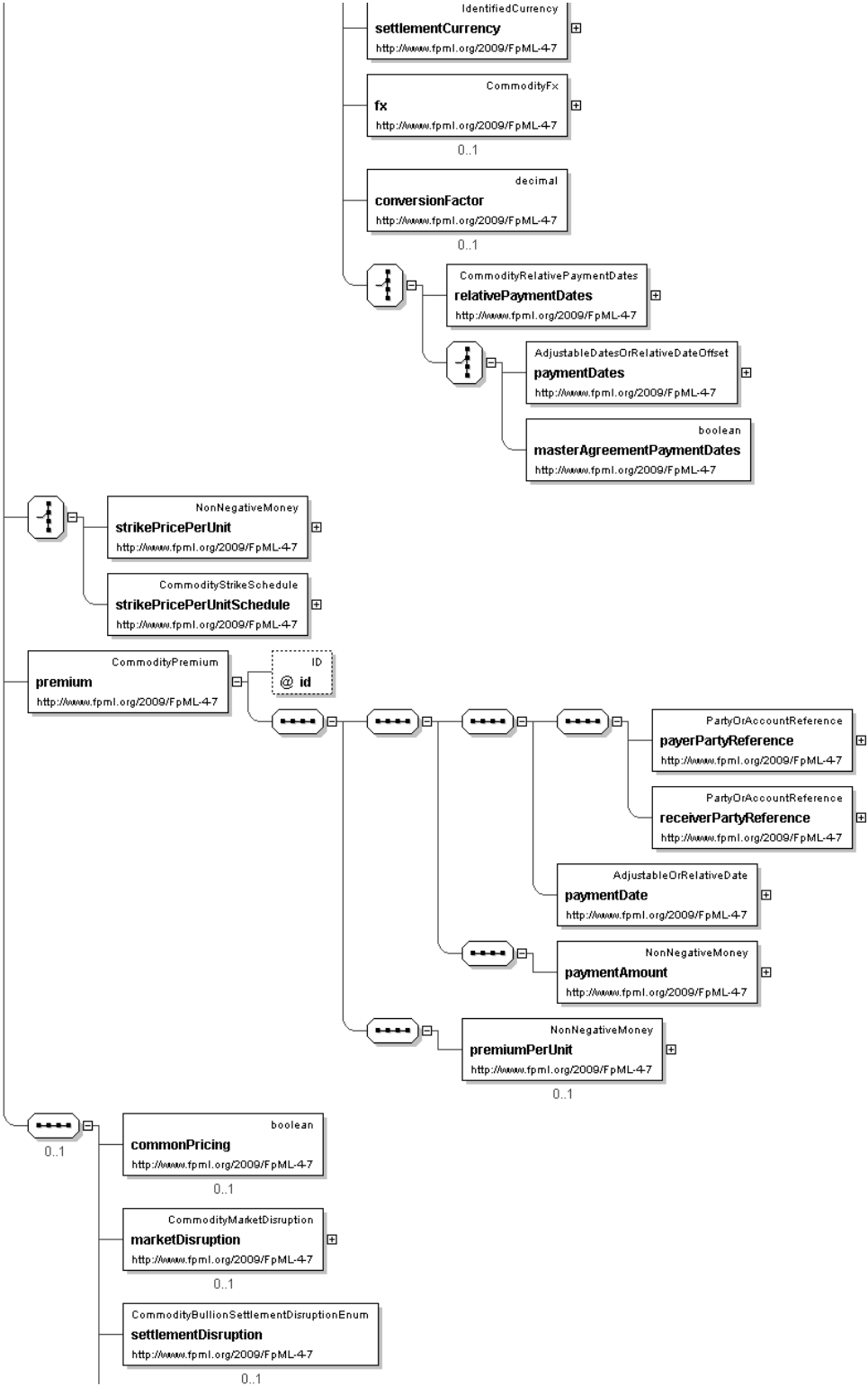
Name	commodityOption
Type	<a href="#">CommodityOption</a>
Nilable	no
Abstract	no
Documentation	Defines a commodity option product.

Logical Diagram











0..1

## XML Instance Representation

```

<commodityOption
  id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells (\writes\) this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> PutCallEnum </optionType> [1]
  'The type of option transaction.'

  <commodity> Commodity </commodity> [1]
  'Specifies the underlying component. At the time of the initial schema design, only
  underlyers of type Commodity are supported; the choice group in the future could offer
  the possibility of adding other types later.'

  Start Group: CommodityAsian.model [0..1]
  'A group containing properties specific to Asian options.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
  'The effective date of the Commodity Option Transaction. Note that the Termination/
  Expiration Date should be specified in expirationDate within the CommodityAmericanExercise
  type or the CommodityEuropeanExercise type, as applicable.'

  Start Choice [1]
  <calculationPeriodsSchedule> CommodityCalculationPeriodsSchedule </
  calculationPeriodsSchedule> [1]
  'A parametric representation of the Calculation Periods of the Commodity Option Transaction.'

  <calculationPeriods> AdjustableDates </calculationPeriods> [1]
  'An absolute representation of the Calculation Period start dates of the Commodity
  Option Transaction.'

  End Choice

  <pricingDates> CommodityPricingDates </pricingDates> [1]
  'The dates on which the option will price.'

  <averagingMethod> AveragingMethodEnum </averagingMethod> [0..1]
  'The Method of Averaging if there is more than one Pricing Date.'

  End Group: CommodityAsian.model

  Start Choice [1]
  Start Choice [1]
  <notionalQuantitySchedule> CommodityNotionalQuantitySchedule </notionalQuantitySchedule> [1]
  'Allows the documentation of a shaped notional trade where the notional changes over the
  life of the transaction.'

  <notionalQuantity> CommodityNotionalQuantity </notionalQuantity> [1]
  'The Notional Quantity.'

```

<settlementPeriodsNotionalQuantity> [CommoditySettlementPeriodsNotionalQuantity](#)

</settlementPeriodsNotionalQuantity> [1..\*]

'For an electricity transaction, the Notional Quantity for a one or more groups of Settlement Periods to which the Notional Quantity is based. If the schedule differs for different groups of Settlement Periods, this element should be repeated.'

End Choice

<totalNotionalQuantity> [xsd:decimal](#) </totalNotionalQuantity> [0..1]

'The Total Notional Quantity.'

<quantityReference> [QuantityReference](#) </quantityReference> [1]

'A pointer style reference to a quantity defined on another leg.'

End Choice

<exercise> [CommodityExercise](#) </exercise> [1]

'The parameters for defining how the commodity option can be exercised and how it is settled.'

Start Choice [1]

<strikePricePerUnit> [NonNegativeMoney](#) </strikePricePerUnit> [1]

'The currency amount of the strike price per unit.'

<strikePricePerUnitSchedule> [CommodityStrikeSchedule](#) </strikePricePerUnitSchedule> [1]

End Choice

<premium> [CommodityPremium](#) </premium> [1]

'The option premium payable by the buyer to the seller.'

Start Group: [CommodityContent.model](#) [0..1]

<commonPricing> [xsd:boolean](#) </commonPricing> [0..1]

'Common pricing may be relevant for a Transaction that references more than one Commodity Reference Price. If Common Pricing is not specified as applicable, it will be deemed not to apply.'

<marketDisruption> [CommodityMarketDisruption](#) </marketDisruption> [0..1]

'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA 2005 Commodity Definitions, as applicable.'

<settlementDisruption> [CommodityBullionSettlementDisruptionEnum](#) </settlementDisruption> [0..1]

'The consequences of Bullion Settlement Disruption Events.'

<rounding> [Rounding](#) </rounding> [0..1]

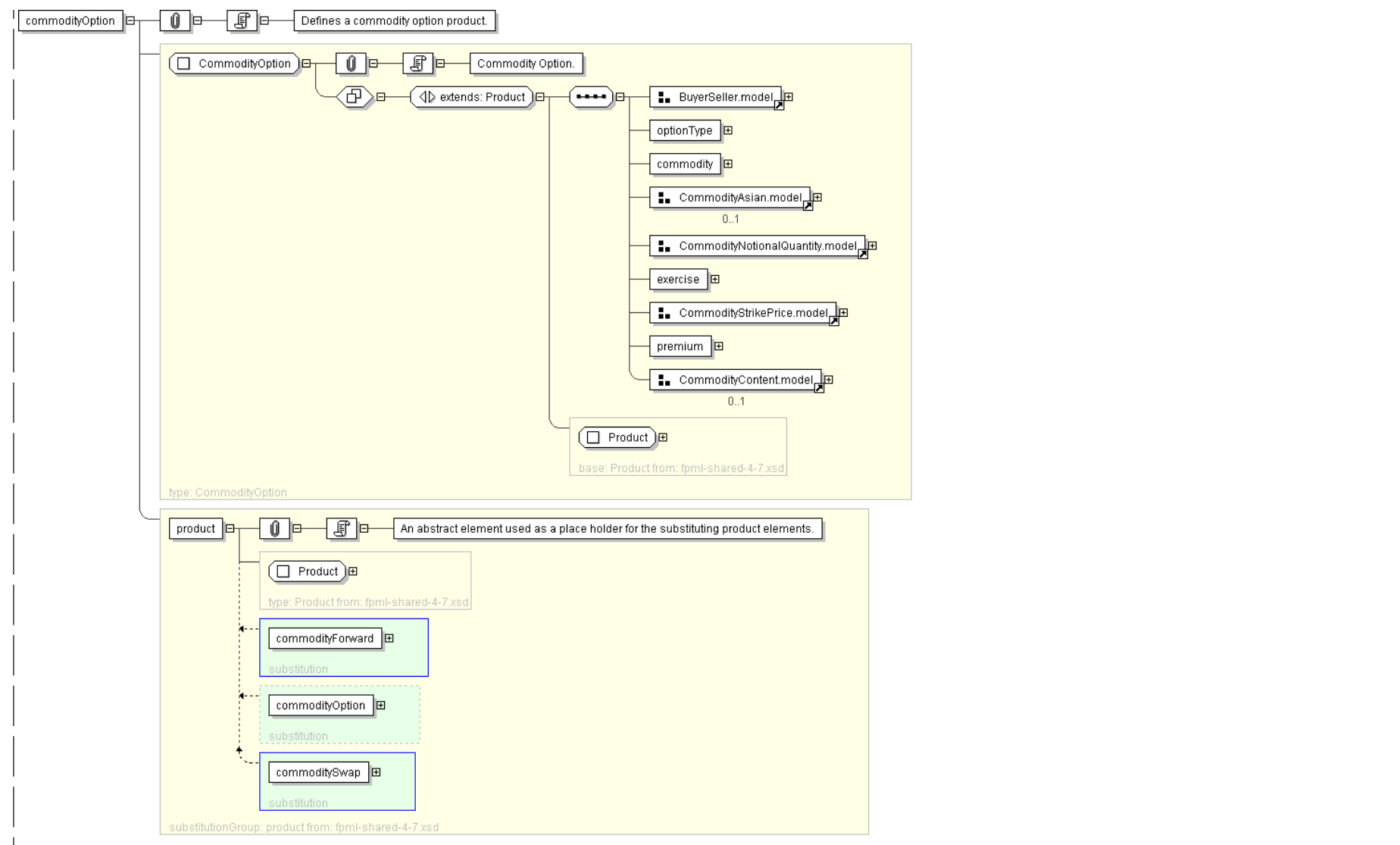
'Rounding direction and precision for amounts.'

End Group: [CommodityContent.model](#)

</commodityOption>

Diagram





Schema Component Representation

```
<xsd:element name="commodityOption" type="CommodityOption" substitutionGroup="product"/>
```

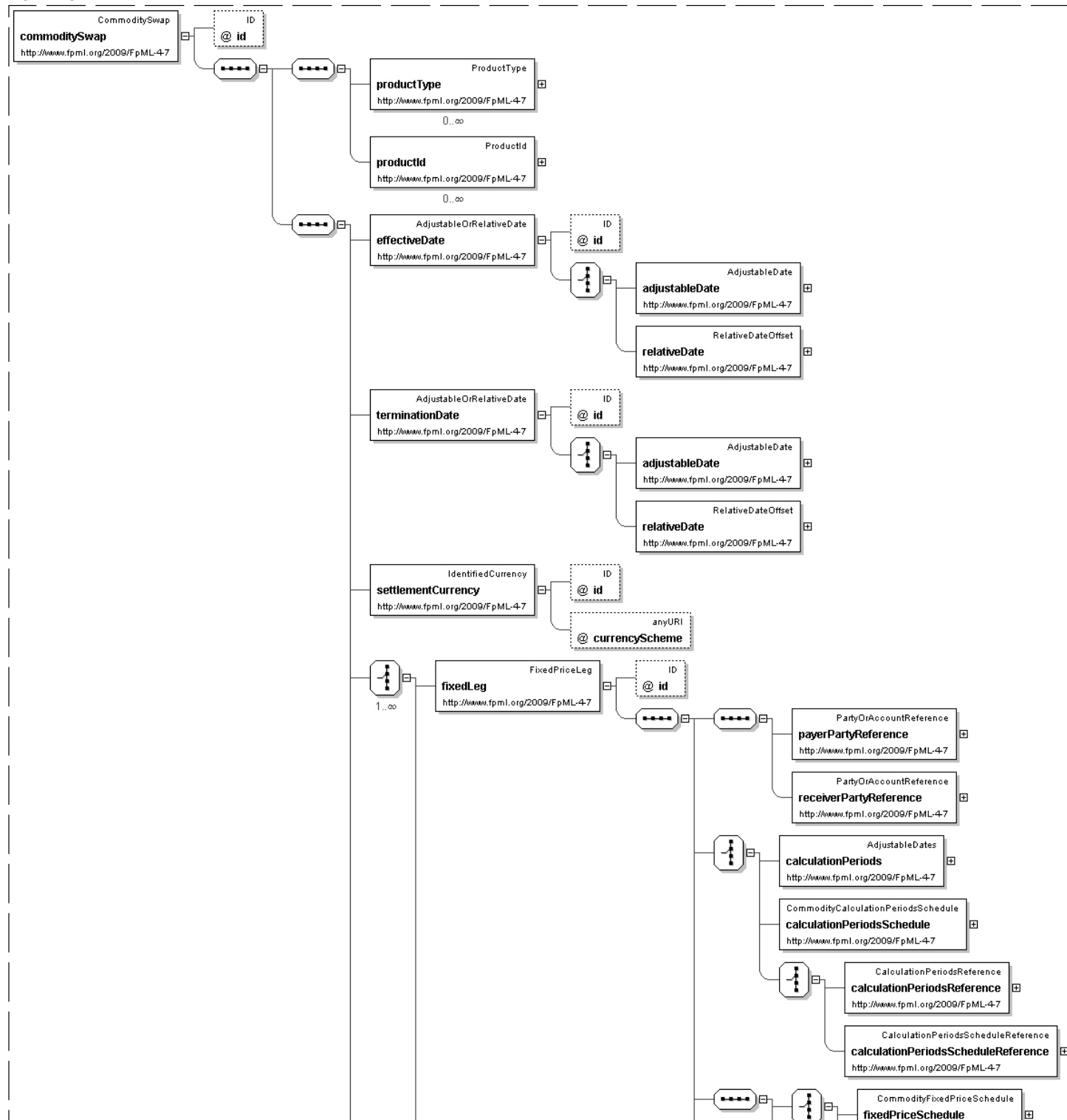
[top](#)

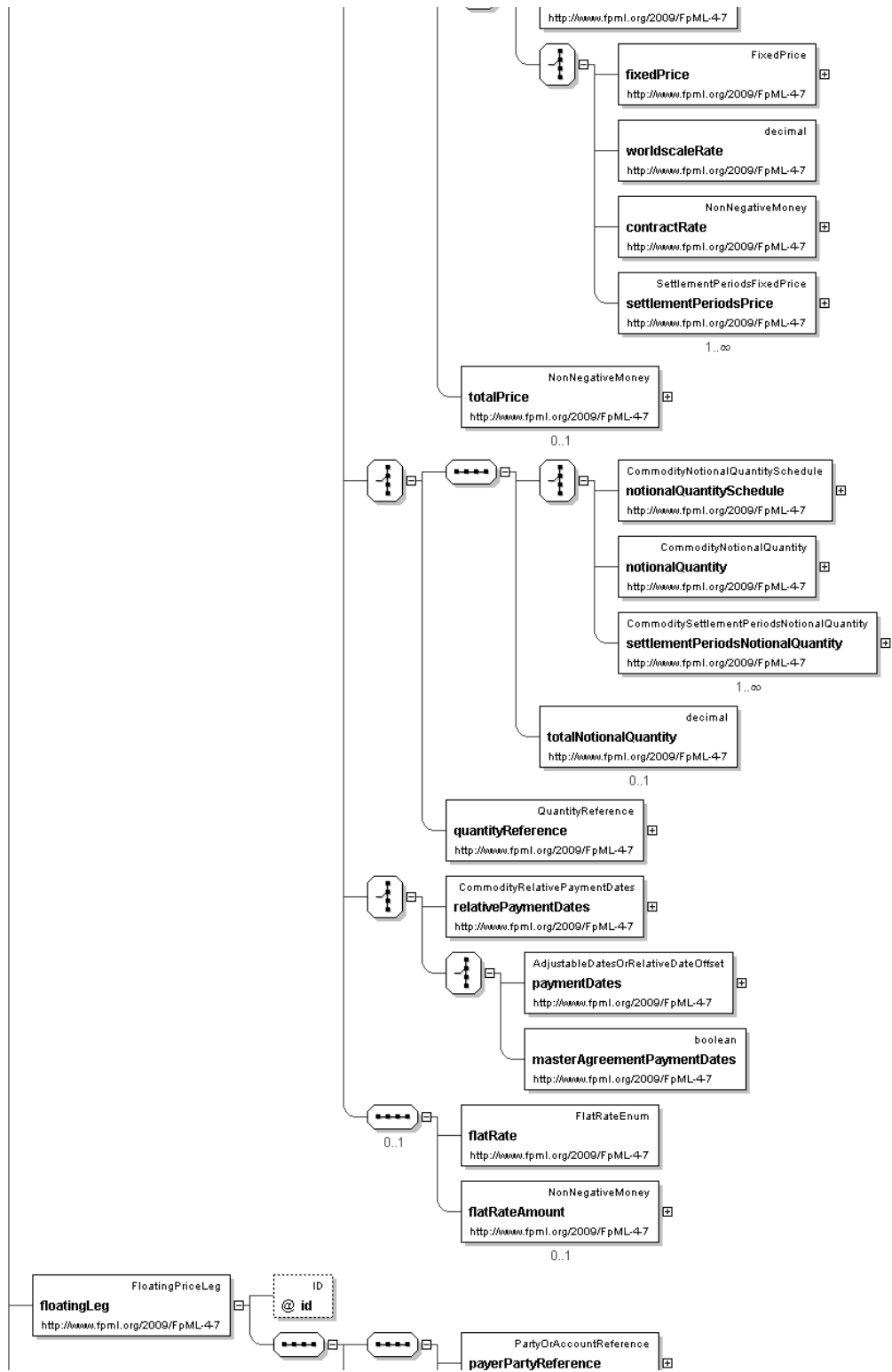
Element: **commoditySwap**

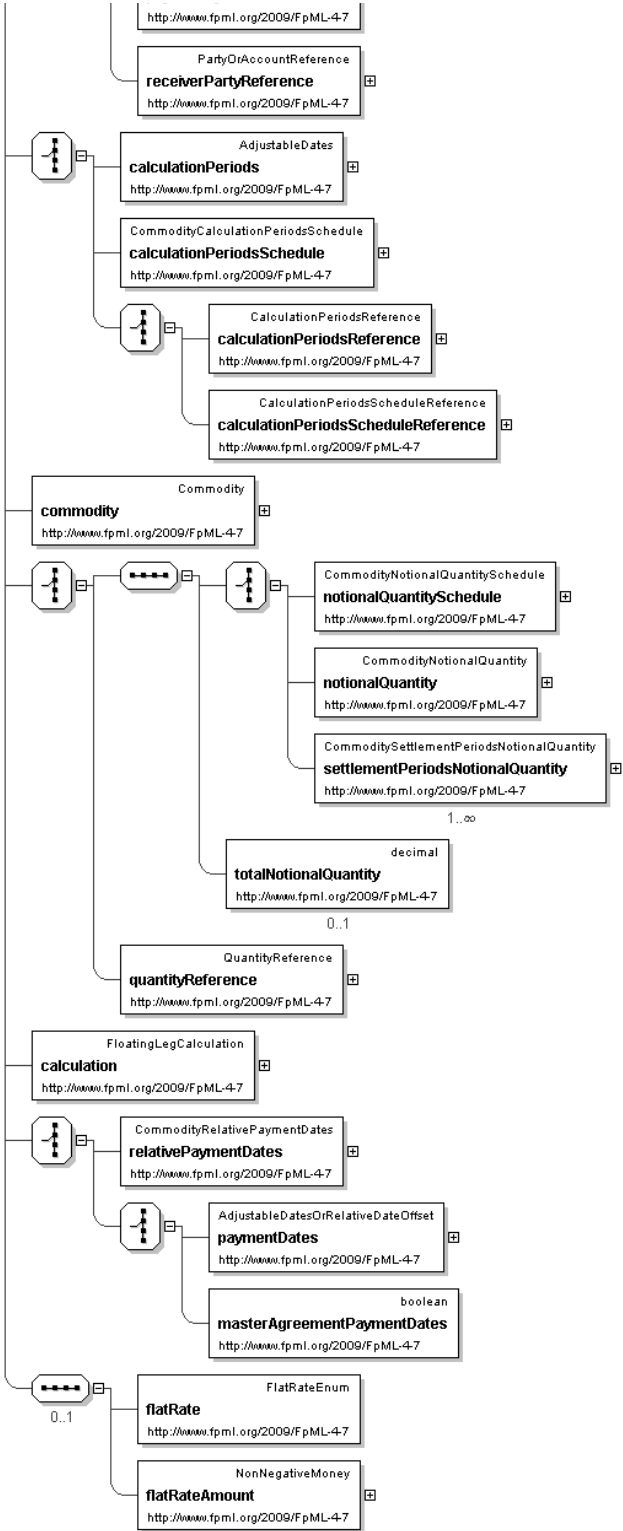
- This element can be used wherever the following element is referenced:
  - [product](#)

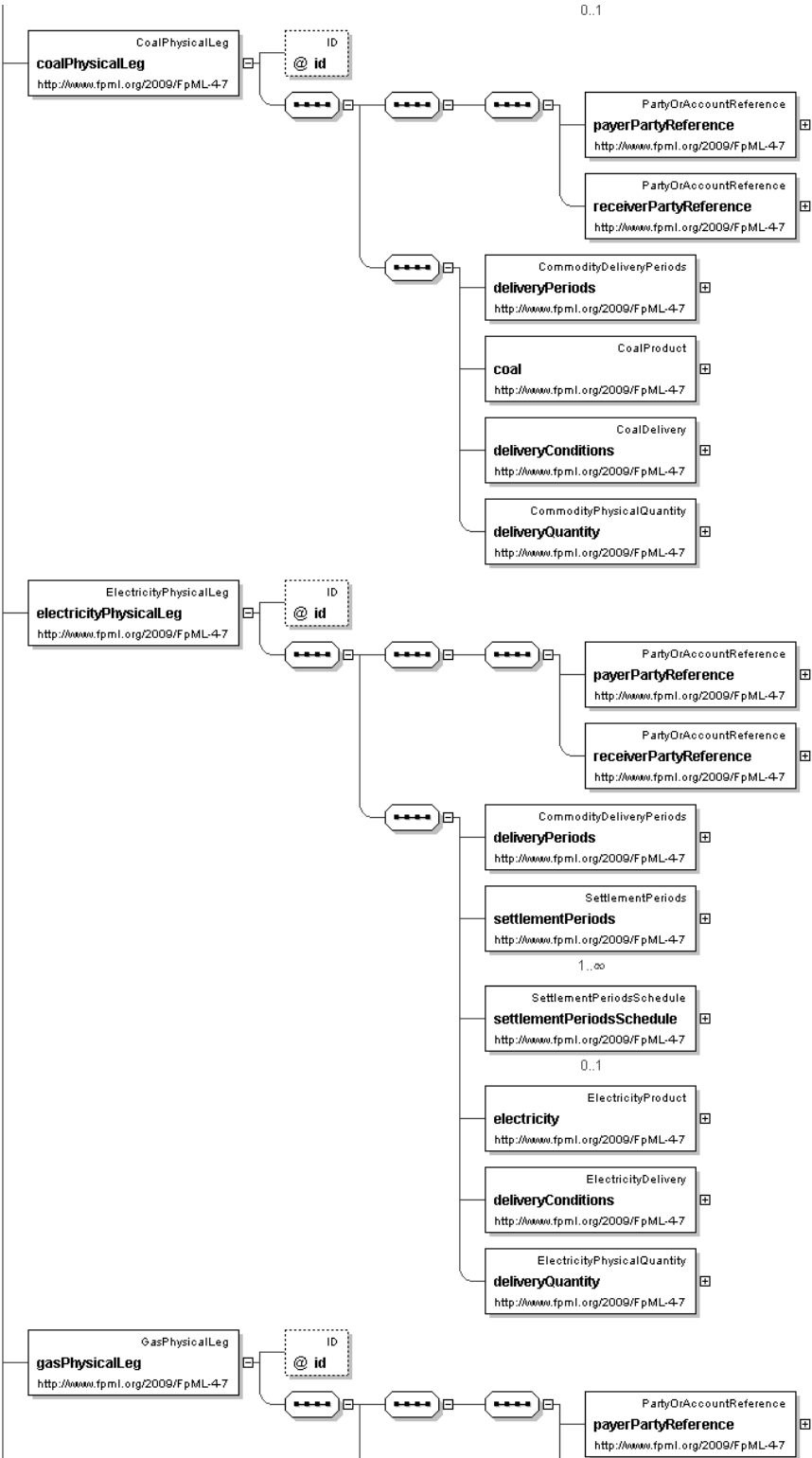
Name	commoditySwap
Type	<a href="#">CommoditySwap</a>
Nilable	no
Abstract	no
Documentation	Defines a commodity swap product.

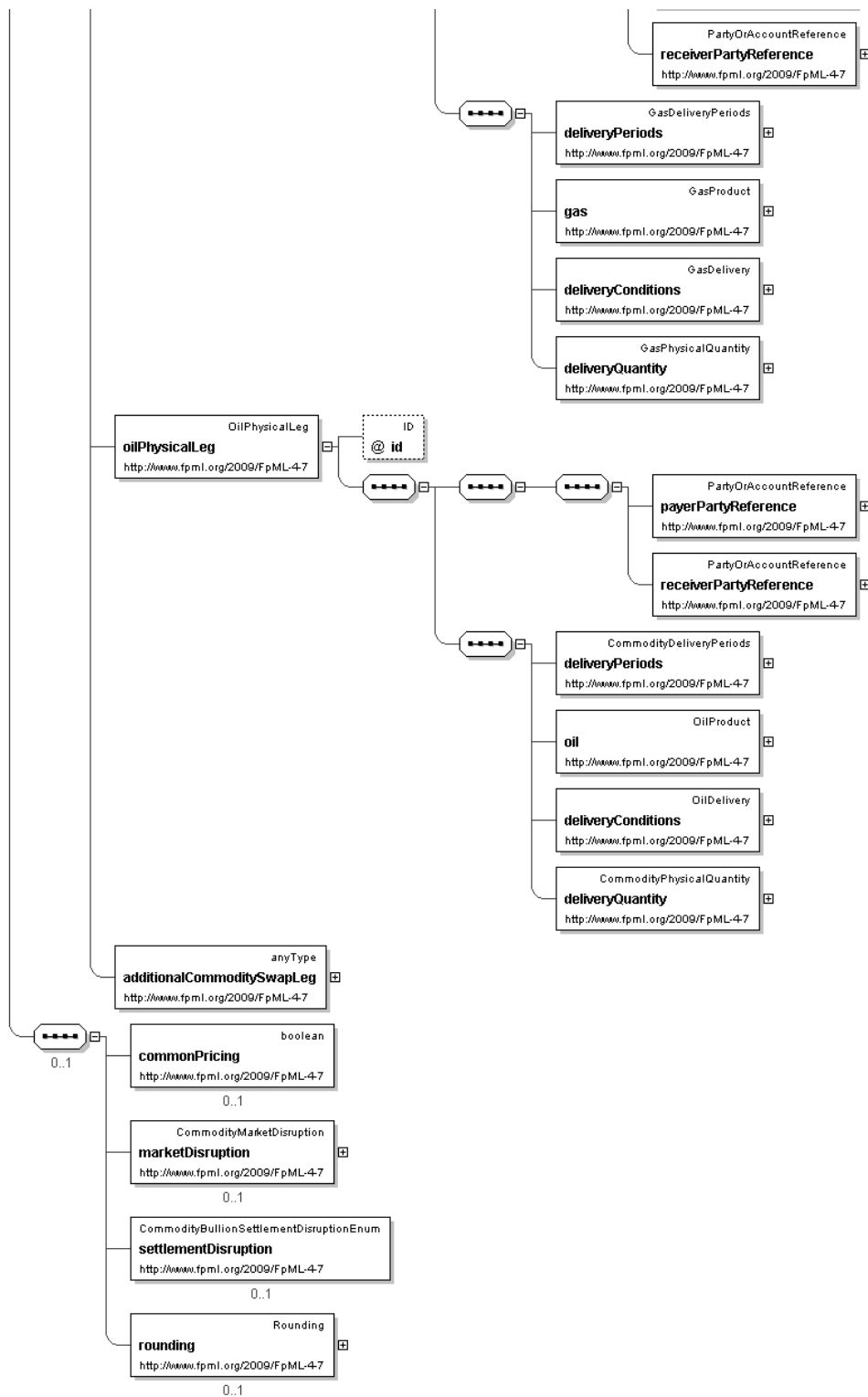
## Logical Diagram











XML Instance Representation

```
<commoditySwap
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

  <settlementCurrency> IdentifiedCurrency </settlementCurrency> [1]
  'The currency into which the Commodity Swap Transaction will settle. If this is not the same
  as the currency in which the Commodity Reference Price is quoted on a given floating leg of
  the Commodity Swap Transaction, then an FX rate should also be specified for that leg.'

  Start Choice [1..*]
  <fixedLeg> FixedPriceLeg </fixedLeg> [1]
  'Fixed Price Leg.'

  <floatingLeg> FloatingPriceLeg </floatingLeg> [1]
  'Floating Price leg.'

  <coalPhysicalLeg> CoalPhysicalLeg </coalPhysicalLeg> [1]
  'Physically settled coal leg.'

  <electricityPhysicalLeg> ElectricityPhysicalLeg </electricityPhysicalLeg> [1]
  'Physically settled electricity leg.'

  <gasPhysicalLeg> GasPhysicalLeg </gasPhysicalLeg> [1]
  'Physically settled natural gas leg.'

  <oilPhysicalLeg> OilPhysicalLeg </oilPhysicalLeg> [1]
  'Physically settled oil or refined products leg.'

  <additionalCommoditySwapLeg> ... </additionalCommoditySwapLeg> [1]
  End Choice
  Start Group: CommodityContent.model [0..1]
  <commonPricing> xsd:boolean </commonPricing> [0..1]
  'Common pricing may be relevant for a Transaction that references more than one
  Commodity Reference Price. If Common Pricing is not specified as applicable, it will be
  deemed not to apply.'

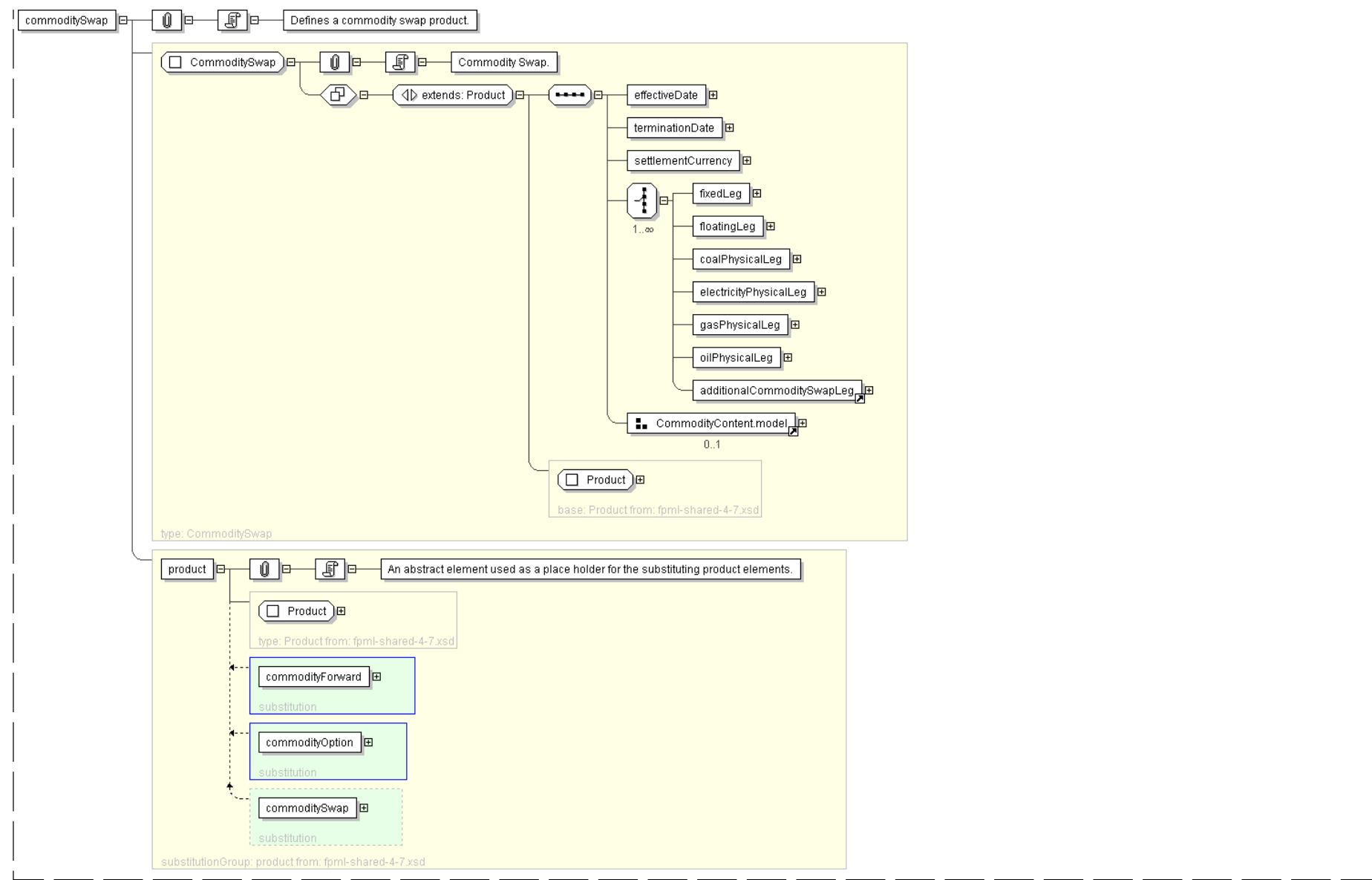
  <marketDisruption> CommodityMarketDisruption </marketDisruption> [0..1]
  'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA
  2005 Commodity Definitions, as applicable.'

  <settlementDisruption> CommodityBullionSettlementDisruptionEnum </settlementDisruption> [0..1]
  'The consequences of Bullion Settlement Disruption Events.'

  <rounding> Rounding </rounding> [0..1]
  'Rounding direction and precision for amounts.'

  End Group: CommodityContent.model
</commoditySwap>
```

Diagram



Schema Component Representation

```
<xsd:element name="commoditySwap" type="CommoditySwap" substitutionGroup="product"/>
```

Global Definitions

Complex Type: **AbsoluteTolerance**

Super-types:	None
Sub-types:	None
Name	AbsoluteTolerance

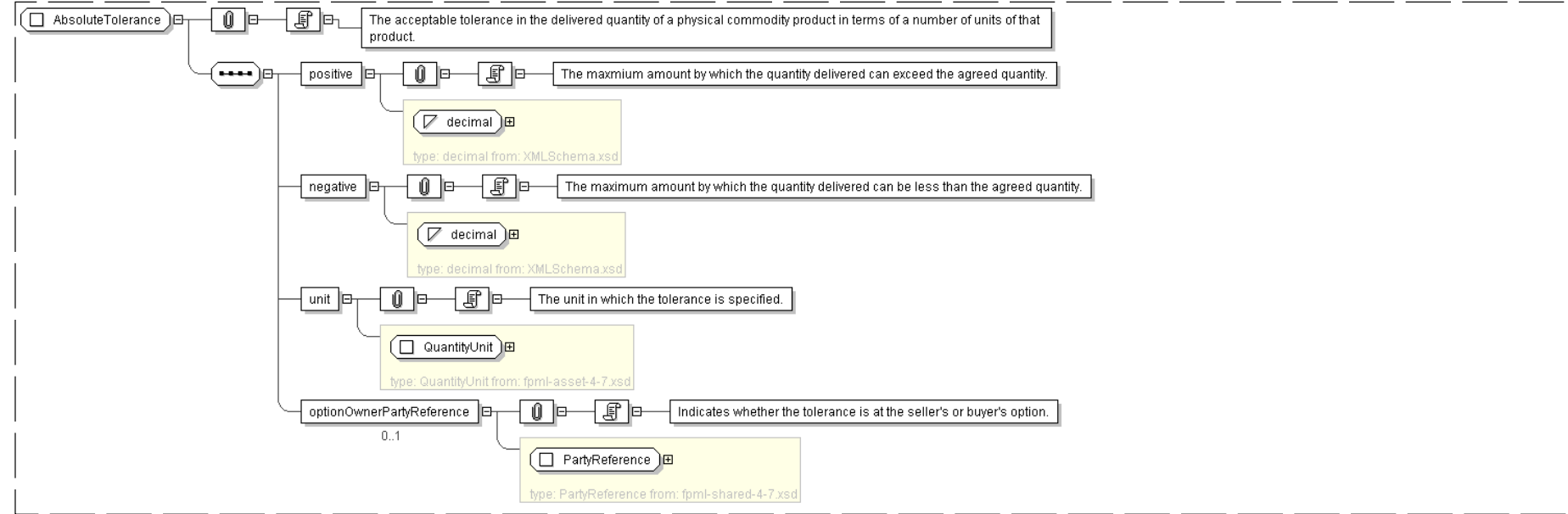


Used by (from the same schema document)	Complex Type <a href="#">OilDelivery</a>
Abstract	no
Documentation	The acceptable tolerance in the delivered quantity of a physical commodity product in terms of a number of units of that product.

XML Instance Representation

<pre>&lt;...&gt;   &lt;positive&gt; xsd:decimal &lt;/positive&gt; [1]   'The maxmium amount by which the quantity delivered can exceed the agreed quantity.'    &lt;negative&gt; xsd:decimal &lt;/negative&gt; [1]   'The maximum amount by which the quantity delivered can be less than the agreed quantity.'    &lt;unit&gt; QuantityUnit &lt;/unit&gt; [1]   'The unit in which the tolerance is specified.'    &lt;optionOwnerPartyReference&gt; PartyReference &lt;/optionOwnerPartyReference&gt; [0..1]   'Indicates whether the tolerance is at the seller\'s or buyer\'s option.'  &lt;/...&gt;</pre>
--

Diagram



Schema Component Representation

<pre>&lt;xsd:complexType name="AbsoluteTolerance"&gt;   &lt;xsd:sequence&gt;     &lt;xsd:element name="positive" type="xsd:decimal" /&gt;     &lt;xsd:element name="negative" type="xsd:decimal" /&gt;     &lt;xsd:element name="unit" type="QuantityUnit" /&gt;     &lt;xsd:element name="optionOwnerPartyReference" type="PartyReference" minOccurs="0"/&gt;   &lt;/xsd:sequence&gt; &lt;/xsd:complexType&gt;</pre>
---

Complex Type: **BullionDeliveryLocation**

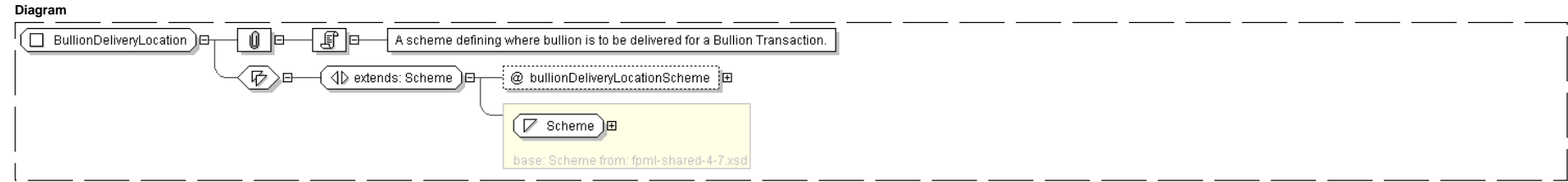
Super-types:	<a href="#">Scheme</a> < <b>BullionDeliveryLocation</b> (by extension)
Sub-types:	None

Name	BullionDeliveryLocation
------	-------------------------

Used by (from the same schema document)	Complex Type <a href="#">BullionPhysicalLeg</a>
Abstract	no
Documentation	A scheme defining where bullion is to be delivered for a Bullion Transaction.

XML Instance Representation

<...  
bullionDeliveryLocationScheme=" [xsd:anyURI](#) [0..1]">  
  [Scheme](#)  
</...>



Schema Component Representation

<xsd:complexType name="BullionDeliveryLocation">  
  <xsd:simpleContent>  
    <xsd:extension base=" [Scheme](#) ">  
      <xsd:attribute name="bullionDeliveryLocationScheme" type=" [xsd:anyURI](#) " default="http://  
        www.fpml.org/coding-scheme/bullion-delivery-location"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>

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Complex Type: **BullionPhysicalLeg**

Super-types:	<a href="#">Leg</a> < <a href="#">PhysicalLeg</a> (by extension) < <b>BullionPhysicalLeg</b> (by extension)
Sub-types:	None

Name	BullionPhysicalLeg
Used by (from the same schema document)	Complex Type <a href="#">CommodityForward</a>
Abstract	no
Documentation	Physically settled leg of a physically settled Bullion Transaction.

XML Instance Representation

<...  
  id=" [xsd:ID](#) [0..1]">  
    <payerPartyReference> [PartyOrAccountReference](#) </payerPartyReference> [1]  
    'A reference to the party responsible for making the payments defined by this structure.'  
    <receiverPartyReference> [PartyOrAccountReference](#) </receiverPartyReference> [1]  
    'A reference to the party that receives the payments corresponding to this structure.'  
    <bullionType> [BullionTypeEnum](#) </bullionType> [1]  
    'The type of Bullion underlying a Bullion Transaction.'  
    <deliveryLocation> [BullionDeliveryLocation](#) </deliveryLocation> [1]  
    'The physical delivery location for the transaction.'  
  Start [Choice](#) [1]  
    <physicalQuantity> [CommodityNotionalQuantity](#) </physicalQuantity> [1]  
    'The Quantity per Delivery Period.'  
    <physicalQuantitySchedule> [CommodityPhysicalQuantitySchedule](#) </physicalQuantitySchedule> [1]  
    'Allows the documentation of a shaped quantity trade where the quantity changes over the  
    life of the transaction.'  
  End [Choice](#)  
  <totalPhysicalQuantity> [UnitQuantity](#) </totalPhysicalQuantity> [0..1]  
</...>

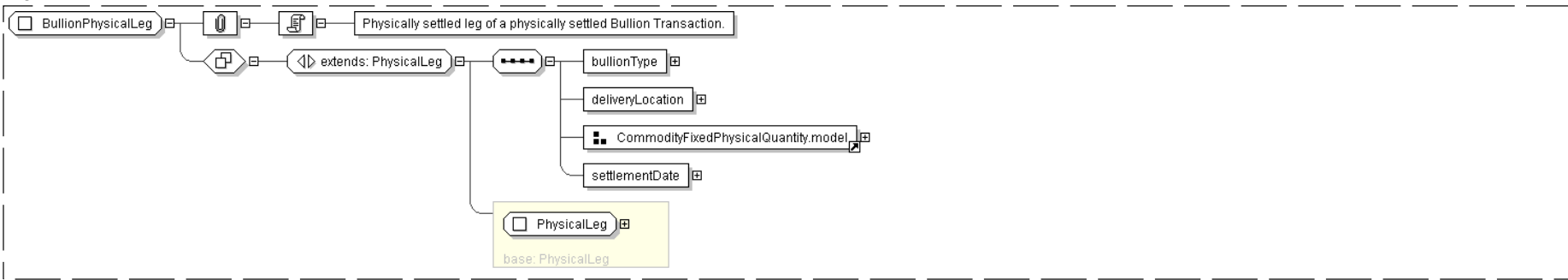
'The Total Quantity of the commodity to be delivered.'

<settlementDate> AdjustableOrRelativeDate </settlementDate> [1]

'Date on which the bullion will settle.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="BullionPhysicalLeg">
  <xsd:complexContent>
    <xsd:extension base="PhysicalLeg">
      <xsd:sequence>
        <xsd:element name="bullionType" type="BullionTypeEnum"/>
        <xsd:element name="deliveryLocation" type="BullionDeliveryLocation"/>
        <xsd:group ref="CommodityFixedPhysicalQuantity.model"/>
        <xsd:element name="settlementDate" type="AdjustableOrRelativeDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

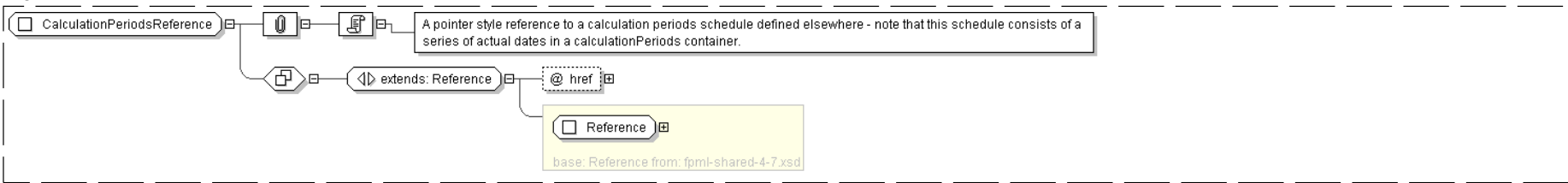
Complex Type: CalculationPeriodsReference

Super-types:	<a href="#">Reference</a> < <b>CalculationPeriodsReference</b> (by extension)
Sub-types:	None
Name	CalculationPeriodsReference
Used by (from the same schema document)	Model Group <a href="#">CommodityDeliveryPeriodsPointer.model</a> , Model Group <a href="#">CommodityCalculationPeriodsPointer.model</a>
Abstract	no
Documentation	A pointer style reference to a calculation periods schedule defined elsewhere - note that this schedule consists of a series of actual dates in a calculationPeriods container.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationPeriodsReference">
```

```
<xsd:complexContent>
  <xsd:extension base="Reference" >
    <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="AdjustableDates"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CalculationPeriodsScheduleReference**

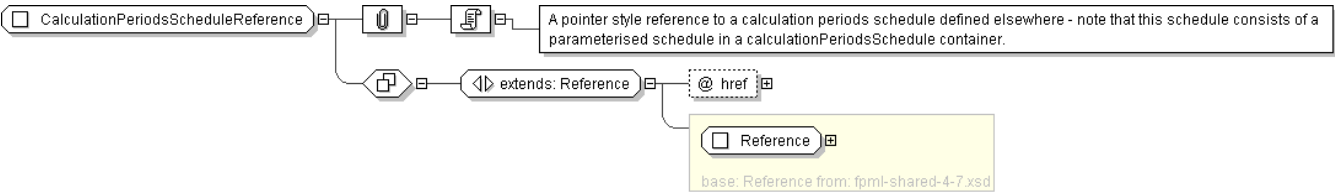
Super-types:	<a href="#">Reference</a> < <b>CalculationPeriodsScheduleReference</b> (by extension)
Sub-types:	None

Name	CalculationPeriodsScheduleReference
Used by (from the same schema document)	Model Group <a href="#">CommodityDeliveryPeriodsPointer.model</a> , Model Group <a href="#">CommodityCalculationPeriodsPointer.model</a>
Abstract	no
Documentation	A pointer style reference to a calculation periods schedule defined elsewhere - note that this schedule consists of a parameterised schedule in a calculationPeriodsSchedule container.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationPeriodsScheduleReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF"
        use="required" reference="CommodityCalculationPeriodsSchedule"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CoalAttributeDecimal**

Super-types:	None
Sub-types:	None

Name	CoalAttributeDecimal
Used by (from the same schema document)	Model Group <a href="#">CommodityCoalProperties.model</a> , Model Group <a href="#">CommodityCoalProperties.model</a> , Model Group <a href="#">CommodityCoalProperties.model</a> , Model Group <a href="#">CommodityCoalProperties.model</a> , Model Group <a href="#">CommodityCoalProperties.model</a> , Model Group <a href="#">CommodityCoalReducingAtmosphere.model</a> , Model Group <a href="#">CommodityCoalReducingAtmosphere.model</a> , Model Group <a href="#">CommodityCoalReducingAtmosphere.model</a> , Model Group <a href="#">CommodityCoalReducingAtmosphere.model</a>
Abstract	no
Documentation	The different options for specifying the attributes of a coal quality measure as a decimal value.

XML Instance Representation

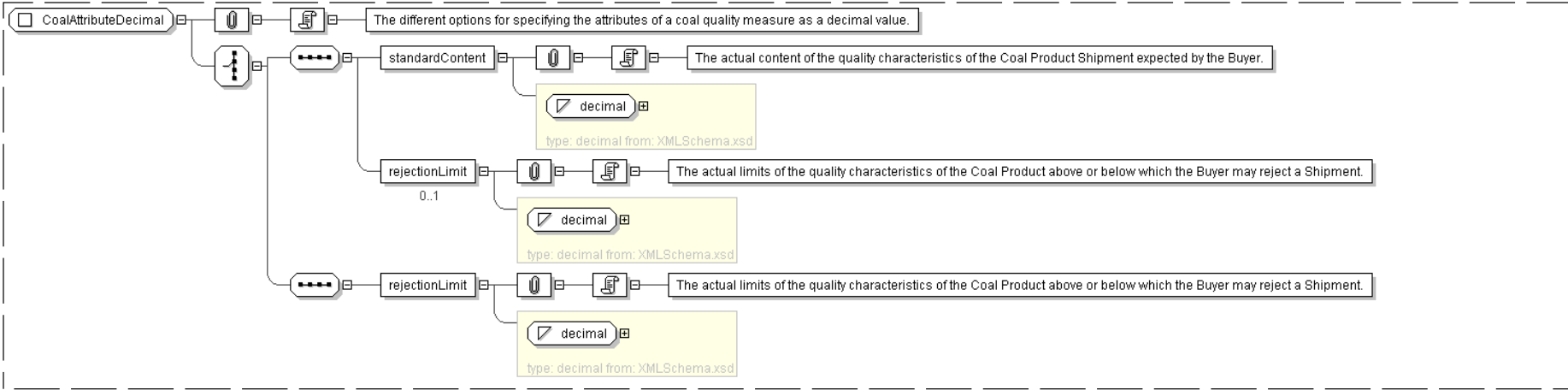
```
<...>
  Start Choice [1]
    <standardContent> xsd:decimal </standardContent> [1]
    'The actual content of the quality characteristics of the Coal Product Shipment expected by the Buyer.'
```

```
<rejectionLimit> xsd:decimal </rejectionLimit> [0..1]
'The actual limits of the quality characteristics of the Coal Product above or below which
the Buyer may reject a Shipment.'
```

```
<rejectionLimit> xsd:decimal </rejectionLimit> [1]
'The actual limits of the quality characteristics of the Coal Product above or below which
the Buyer may reject a Shipment.'
```

End Choice  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalAttributeDecimal">
  <xsd:choice>
    <xsd:sequence>
      <xsd:element name="standardContent" type=" xsd:decimal "/>
      <xsd:element name="rejectionLimit" type=" xsd:decimal " minOccurs="0"/>
    </xsd:sequence>
    <xsd:sequence>
      <xsd:element name="rejectionLimit" type=" xsd:decimal "/>
    </xsd:sequence>
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: CoalAttributePercentage

Super-types:	None
Sub-types:	None
Name	CoalAttributePercentage
Used by (from the same schema document)	Model Group <a href="#">CommodityCoalComposition.model</a> , Model Group <a href="#">CommodityCoalComposition.model</a> , Model Group <a href="#">CommodityCoalComposition.model</a> , Model Group <a href="#">CommodityCoalComposition.model</a> , Model Group <a href="#">CommodityCoalComposition.model</a>
Abstract	no
Documentation	The different options for specifying the attributes of a coal quality measure as a percentage of the measured value.

XML Instance Representation

```
<...>
Start Choice [1]
<standardContent> RestrictedPercentage </standardContent> [1]
'The actual content of the quality characteristics of the Coal Product Shipment expected by
the Buyer.'
```

```
<rejectionLimit> RestrictedPercentage </rejectionLimit> [0..1]
```

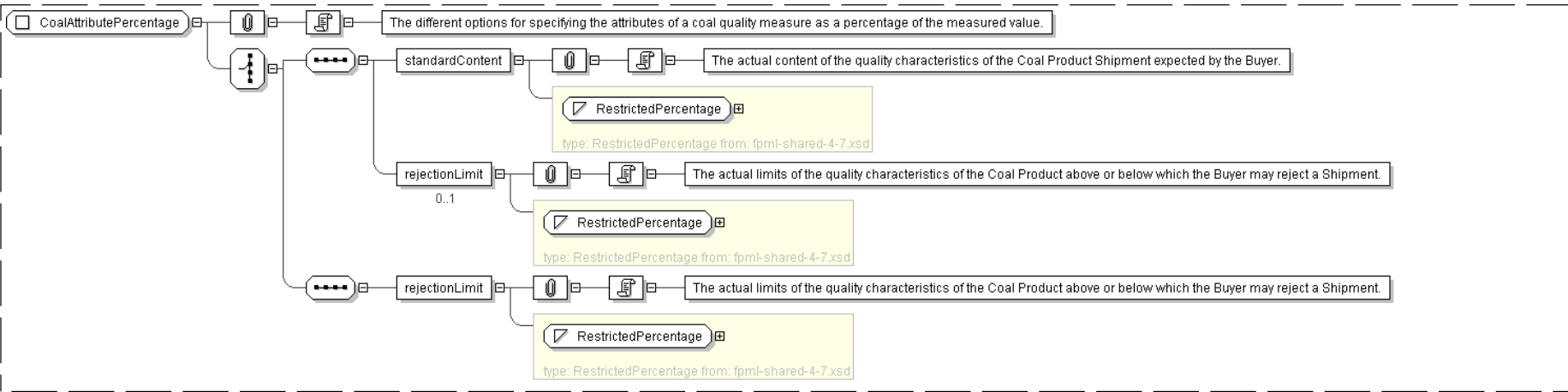
'The actual limits of the quality characteristics of the Coal Product above or below which the Buyer may reject a Shipment.'

<rejectionLimit> [RestrictedPercentage](#) </rejectionLimit> [1]

'The actual limits of the quality characteristics of the Coal Product above or below which the Buyer may reject a Shipment.'

End Choice  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalAttributePercentage">
  <xsd:choice>
    <xsd:sequence>
      <xsd:element name="standardContent" type="RestrictedPercentage" />
      <xsd:element name="rejectionLimit" type="RestrictedPercentage" minOccurs="0"/>
    </xsd:sequence>
    <xsd:sequence>
      <xsd:element name="rejectionLimit" type="RestrictedPercentage" />
    </xsd:sequence>
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: CoalDelivery

Super-types:	None
Sub-types:	None
Name	CoalDelivery
Used by (from the same schema document)	Complex Type <a href="#">CoalPhysicalLeg</a>
Abstract	no
Documentation	The physical delivery conditions for coal.

XML Instance Representation

```
<...>
Start Choice [1]
<deliveryPoint> CoalDeliveryPoint </deliveryPoint> [1]
  'The point at which the Coal Product will be delivered and received.'

  <deliveryAtSource> xsd:boolean </deliveryAtSource> [1]
  'The point at which the Coal Product as a reference to the Source of the Coal Product.
  This should be a reference to the source element within product.'

End Choice
Start Group: CommodityUSCoalDelivery.model [0..1]
```

'Additional delivery details for U.S. Coal transactions.'

<quantityVariationAdjustment> [xsd:boolean](#) </quantityVariationAdjustment> [1]

'If true, indicates that QVA is applicable. If false, indicates that QVA is inapplicable.'

<transportationEquipment> [CoalTransportationEquipment](#) </transportationEquipment> [0..1]

'The transportation equipment with which the Coal Product will be delivered and received.'

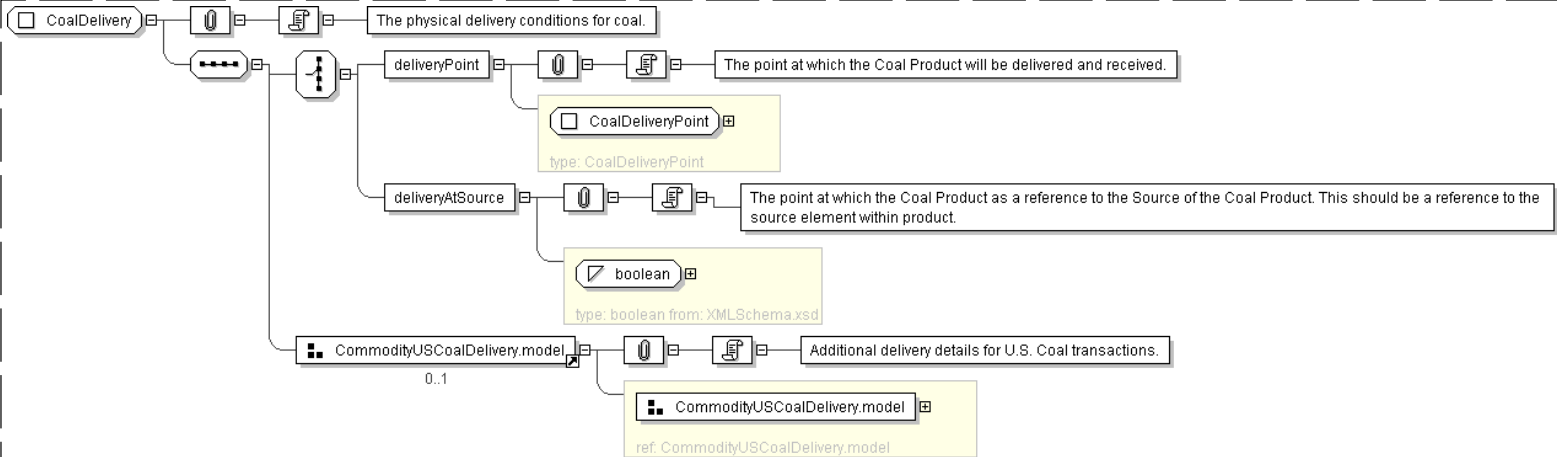
<risk> [CommodityDeliveryRisk](#) </risk> [0..1]

'Specifies how the risk associated with the delivery is assigned.'

End Group: [CommodityUSCoalDelivery.model](#)

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalDelivery">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="deliveryPoint" type="CoalDeliveryPoint" />
      <xsd:element name="deliveryAtSource" type="xsd:boolean" />
    </xsd:choice>
    <xsd:group ref="CommodityUSCoalDelivery.model" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **CoalDeliveryPoint**

Super-types:	<a href="#">Scheme</a> < <b>CoalDeliveryPoint</b> (by extension)
Sub-types:	None

Name	CoalDeliveryPoint
Used by (from the same schema document)	Complex Type <a href="#">CoalDelivery</a>
Abstract	no
Documentation	A scheme identifying the types of the Delivery Point for a physically settled coal trade.

XML Instance Representation

```
<...
  deliveryPointScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalDeliveryPoint">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="deliveryPointScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: CoalPhysicalLeg

Super-types:	<a href="#">Leg</a> < <a href="#">PhysicalLeg</a> (by extension) < <b>CoalPhysicalLeg</b> (by extension)
Sub-types:	None

Name	CoalPhysicalLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Abstract	no
Documentation	Physically settled leg of a physically settled coal transaction.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <deliveryPeriods> CommodityDeliveryPeriods </deliveryPeriods> [1]
  'The period during which delivery/deliveries of Coal Products may be scheduled. Equivalent
  to Nomination Period(s) for US Coal.'

  <coal> CoalProduct </coal> [1]
  'The specification of the Coal Product to be delivered.'

  <deliveryConditions> CoalDelivery </deliveryConditions> [1]
  'The physical delivery conditions for the transaction.'

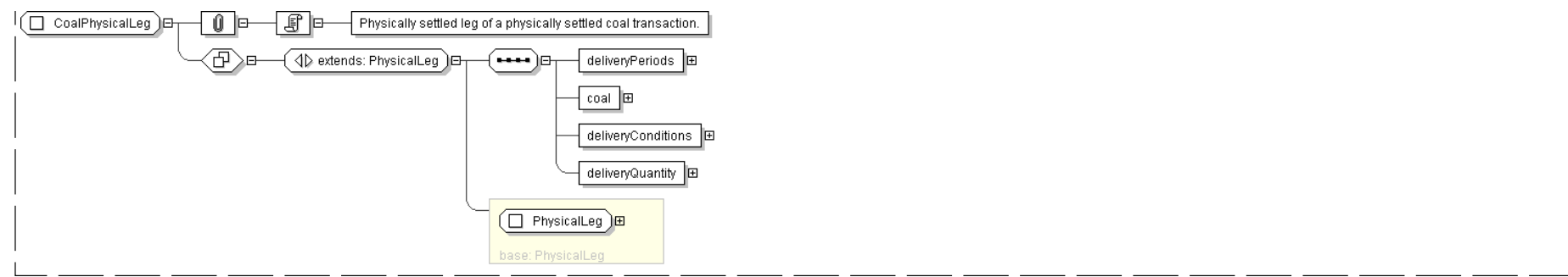
  <deliveryQuantity> CommodityPhysicalQuantity </deliveryQuantity> [1]
  'The different options for specifying the quantity.'

</...>
```

Diagram







Schema Component Representation

```
<xsd:complexType name="CoalPhysicalLeg">
  <xsd:complexContent>
    <xsd:extension base="PhysicalLeg">
      <xsd:sequence>
        <xsd:element name="deliveryPeriods" type="CommodityDeliveryPeriods"/>
        <xsd:element name="coal" type="CoalProduct"/>
        <xsd:element name="deliveryConditions" type="CoalDelivery"/>
        <xsd:element name="deliveryQuantity" type="CommodityPhysicalQuantity"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: CoalProduct

Super-types:	None
Sub-types:	None
Name	CoalProduct
Used by (from the same schema document)	Complex Type <a href="#">CoalPhysicalLeg</a>
Abstract	no
Documentation	A type defining the characteristics of the coal being traded in a physically settled gas transaction.

XML Instance Representation

```
<...>
Start Choice [1]
  <type> CoalProductType </type> [1]
  'The type of coal product to be delivered by reference to a pre-defined specification.'

  <coalProductSpecifications> CoalProductSpecifications </coalProductSpecifications> [1]
  'The type of coal product to be delivered specified in full.'

End Choice
<source> CoalProductSource </source> [1..*]
'The mining region, mine(s), mining complex(es), loadout(s) or river dock(s) or other point
(s) of origin that Seller and Buyer agree are acceptable origins for the Coal Product.
For International Coal transactions, this is the Origin of the Coal Product.'

Start Group: CommodityUSCoalProduct.model [0..1]
'Additional product details for U.S. Coal transactions.'

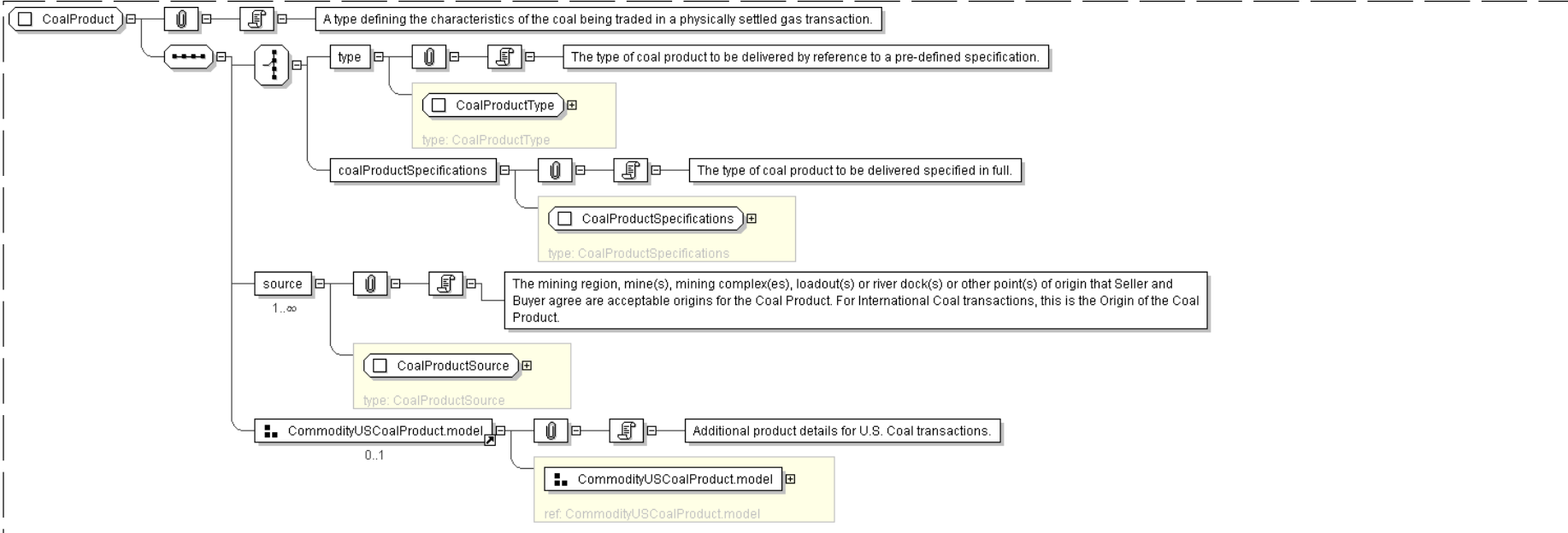
  <btuQualityAdjustment> CoalQualityAdjustments </btuQualityAdjustment> [1]
  'The Quality Adjustment formula to be used where the Actual Shipment BTU/Lb value differs
  from the Standard BTU/Lb value.'

  <so2QualityAdjustment> CoalQualityAdjustments </so2QualityAdjustment> [0..1]
  'The Quality Adjustment formula to be used where the Actual Shipment SO2/MMBTU value
  differs from the Standard SO2/MMBTU value.'

End Group: CommodityUSCoalProduct.model
```

! </...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalProduct">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="type" type=" CoalProductType " />
      <xsd:element name="coalProductSpecifications" type=" CoalProductSpecifications " />
    </xsd:choice>
    <xsd:element name="source" type=" CoalProductSource " maxOccurs="unbounded"/>
    <xsd:group ref=" CommodityUSCoalProduct.model " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: CoalProductSource

Super-types:	<a href="#">Scheme</a> < <b>CoalProductSource</b> (by extension)
Sub-types:	None

Name	CoalProductSource
Used by (from the same schema document)	Complex Type <a href="#">CoalProduct</a>
Abstract	no
Documentation	A scheme identifying the sources of coal for a physically settled coal trade.

XML Instance Representation

```
<...
commodityCoalProductSourceScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalProductSource">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="commodityCoalProductSourceScheme" type=" xsd:anyURI " default="http://
        www.fpml.org/coding-scheme/commodity-coal-product-source"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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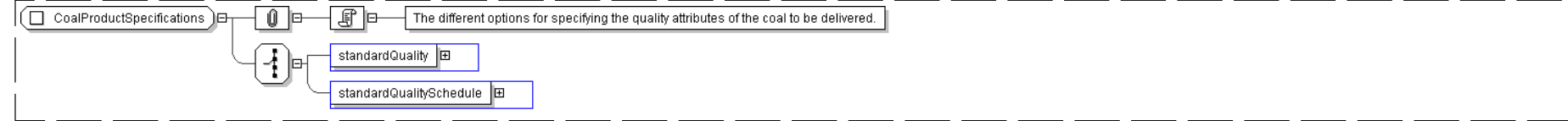
Complex Type: **CoalProductSpecifications**

Super-types:	None
Sub-types:	None
Name	CoalProductSpecifications
Used by (from the same schema document)	Complex Type <a href="#">CoalProduct</a>
Abstract	no
Documentation	The different options for specifying the quality attributes of the coal to be delivered.

XML Instance Representation

```
<...>
Start Choice [1]
  <standardQuality> CoalStandardQuality </standardQuality> [1]
  <standardQualitySchedule> CoalStandardQualitySchedule </standardQualitySchedule> [1]
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalProductSpecifications">
  <xsd:choice>
    <xsd:element name="standardQuality" type=" CoalStandardQuality "/>
    <xsd:element name="standardQualitySchedule" type=" CoalStandardQualitySchedule "/>
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: **CoalProductType**

Super-types:	<a href="#">Scheme</a> < <b>CoalProductType</b> (by extension)
Sub-types:	None
Name	CoalProductType
Used by (from the same schema document)	Complex Type <a href="#">CoalProduct</a>
Abstract	no
Documentation	A scheme identifying the types of coal for a physically settled coal trade.

XML Instance Representation

<...  
commodityCoalProductTypeScheme=" [xsd:anyURI](#) [0..1]">  
[Scheme](#)  
</...>

Diagram

Schema Component Representation

<xsd:complexType name="CoalProductType">  
 <xsd:simpleContent>  
 <xsd:extension base=" [Scheme](#) ">  
 <xsd:attribute name="commodityCoalProductTypeScheme" type=" [xsd:anyURI](#) " default="http://  
 www.fpml.org/coding-scheme/commodity-coal-product-type"/>  
 </xsd:extension>  
 </xsd:simpleContent>  
</xsd:complexType>

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Complex Type: **CoalQualityAdjustments**

Super-types:	<a href="#">Scheme</a> < <b>CoalQualityAdjustments</b> (by extension)
Sub-types:	None
Name	CoalQualityAdjustments
Used by (from the same schema document)	Model Group <a href="#">CommodityUSCoalProduct.model</a> , Model Group <a href="#">CommodityUSCoalProduct.model</a>
Abstract	no
Documentation	A scheme identifying the quality adjustment formulae for a physically settled coal trade.

XML Instance Representation

<...  
commodityCoalQualityAdjustmentsScheme=" [xsd:anyURI](#) [0..1]">  
[Scheme](#)  
</...>

Diagram

Schema Component Representation

<xsd:complexType name="CoalQualityAdjustments">  
 <xsd:simpleContent>  
 <xsd:extension base=" [Scheme](#) ">  
 <xsd:attribute name="commodityCoalQualityAdjustmentsScheme" type=" [xsd:anyURI](#) "  
 default="http://www.fpml.org/coding-scheme/commodity-coal-quality-adjustments"/>  
 </xsd:extension>  
 </xsd:simpleContent>  
</xsd:complexType>

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Complex Type: CoalStandardQuality

Super-types:	None
Sub-types:	None
Name	CoalStandardQuality
Used by (from the same schema document)	Complex Type <a href="#">CoalProductSpecifications</a> , Complex Type <a href="#">CoalStandardQualitySchedule</a>
Abstract	no
Documentation	The quality attributes of the coal to be delivered.

XML Instance Representation

```
<...>
<moisture> CoalAttributePercentage </moisture> [0..1]
  'The moisture content of the coal product.'

<ash> CoalAttributePercentage </ash> [0..1]
  'The ash content of the coal product.'

<sulfur> CoalAttributePercentage </sulfur> [0..1]
  'The sulfur/sulphur content of the coal product.'

<SO2> CoalAttributePercentage </SO2> [0..1]
  'The sulfur/sulphur dioxide content of the coal product.'

<volatile> CoalAttributePercentage </volatile> [0..1]
  'The volatile content of the coal product.'

<BTUpperLB> CoalAttributeDecimal </BTUpperLB> [0..1]
  'The number of British Thermal Units per Pound of the coal product.'

<topSize> CoalAttributeDecimal </topSize> [0..1]
  'The smallest sieve opening that will result in less than 5% of a sample of the coal
product remaining.'

<finesPassingScreen> CoalAttributeDecimal </finesPassingScreen> [0..1]
<grindability> CoalAttributeDecimal </grindability> [0..1]
  'The Hardgrove Grindability Index value of the coal to be delivered.'

<ashFusionTemperature> CoalAttributeDecimal </ashFusionTemperature> [0..1]
  'The temperature at which the ash form of the coal product fuses completely in accordance
with the ASTM International D1857 Standard Test Methodology.'

<initialDeformation> CoalAttributeDecimal </initialDeformation> [0..1]
  'The temperature at which an ash cone shows evidence of deformation.'

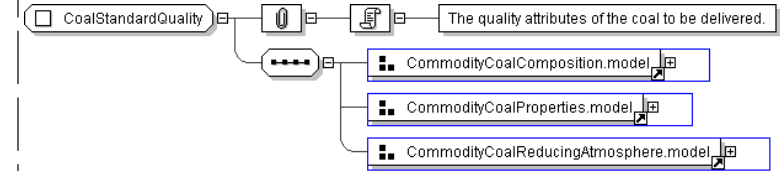
<softeningHeightWidth> CoalAttributeDecimal </softeningHeightWidth> [0..1]
  'The temperature at which the height of an ash cone equals its width. (Softening temperature).'

<softeningHeightHalfWidth> CoalAttributeDecimal </softeningHeightHalfWidth> [0..1]
  'The temperature at which the height of an ash cone equals half its width.
(Hemisphere temperature).'

<fluid> CoalAttributeDecimal </fluid> [0..1]
  'The temperature at which the ash cone flattens.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalStandardQuality">
  <xsd:sequence>
    <xsd:group ref="CommodityCoalComposition.model" />
    <xsd:group ref="CommodityCoalProperties.model" />
    <xsd:group ref="CommodityCoalReducingAtmosphere.model" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **CoalStandardQualitySchedule**

Super-types:	None
Sub-types:	None

Name	CoalStandardQualitySchedule
Used by (from the same schema document)	Complex Type <a href="#">CoalProductSpecifications</a>
Abstract	no
Documentation	The quality attributes of the coal to be delivered, specified on a periodic basis.

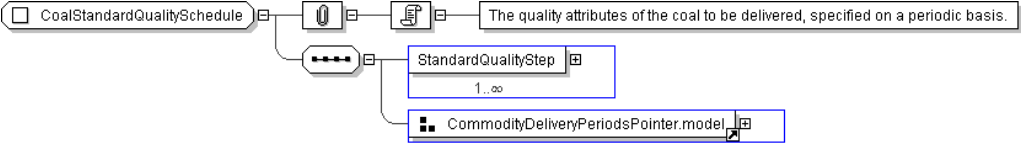
XML Instance Representation

```
<...>
  <StandardQualityStep> CoalStandardQuality </StandardQualityStep> [1..*]
Start Choice [1]
  <deliveryPeriodsReference> CalculationPeriodsReference </deliveryPeriodsReference> [1]
  'A pointer style reference to the Delivery Periods defined elsewhere.'

  <deliveryPeriodsScheduleReference> CalculationPeriodsScheduleReference
</deliveryPeriodsScheduleReference> [1]
  'A pointer style reference to the Calculation Periods Schedule defined elsewhere.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalStandardQualitySchedule">
  <xsd:sequence>
    <xsd:element name="StandardQualityStep" type="CoalStandardQuality" maxOccurs="unbounded"/>
    <xsd:group ref="CommodityDeliveryPeriodsPointer.model" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CoalTransportationEquipment**

Super-types:	<a href="#">Scheme</a> < <b>CoalTransportationEquipment</b> (by extension)
Sub-types:	None

Name	CoalTransportationEquipment
Used by (from the same schema document)	Model Group <a href="#">CommodityUSCoalDelivery.model</a>
Abstract	no
Documentation	A scheme identifying the methods by which coal may be transported.

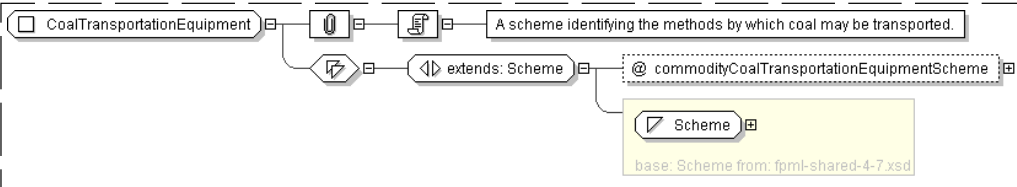
XML Instance Representation

```
<...
commodityCoalTransportationEquipmentScheme="xsd:anyURI" [0..1]">
```

[Scheme](#)

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CoalTransportationEquipment">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="commodityCoalTransportationEquipmentScheme" type=" xsd:anyURI"
        " default="http://www.fpml.org/coding-scheme/commodity-coal-transportation-equipment"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **CommodityAmericanExercise**

Super-types:	<a href="#">SharedAmericanExercise</a> < <b>CommodityAmericanExercise</b> (by extension)
Sub-types:	None
Name	CommodityAmericanExercise
Used by (from the same schema document)	Complex Type <a href="#">CommodityExercise</a>
Abstract	no
Documentation	A type for defining exercise procedures associated with an American style exercise of a commodity option. This entity inherits from the type SharedAmericanExercise.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <commencementDate> AdjustableOrRelativeDate </commencementDate> [1]
  'The first day of the exercise period for an American style option.'

  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

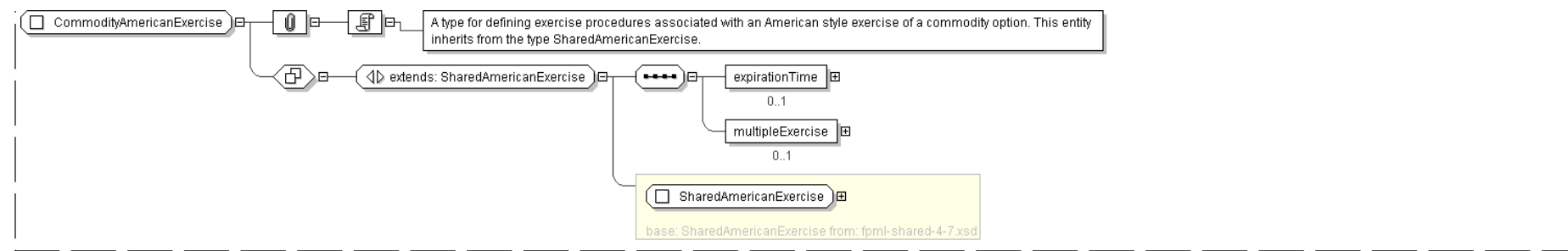
  <latestExerciseTime> BusinessCenterTime </latestExerciseTime> [0..1]
  'For a Bermuda or American style option, the latest time on an exercise business day
  (excluding the expiration date) within the exercise period that notice can be given by
  the buyer to the seller or seller\'s agent. Notice of exercise given after this time will
  be deemed to have been given on the next exercise business day.'

  <expirationTime> BusinessCenterTime </expirationTime> [0..1]
  'The specific time of day on which the option expires.'

  <multipleExercise> CommodityMultipleExercise </multipleExercise> [0..1]
  'The presence of this element indicates that the option may be partially exercised. It is
  not applicable to European or Asian options.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityAmericanExercise">
  <xsd:complexContent>
    <xsd:extension base="SharedAmericanExercise">
      <xsd:sequence>
        <xsd:element name="expirationTime" type="BusinessCenterTime" minOccurs="0"/>
        <xsd:element name="multipleExercise" type="CommodityMultipleExercise" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **CommodityCalculationPeriodsSchedule**

Super-types:	<a href="#">Frequency</a> < <b>CommodityCalculationPeriodsSchedule</b> (by extension)
Sub-types:	None
Name	CommodityCalculationPeriodsSchedule
Used by (from the same schema document)	Complex Type <a href="#">CommodityDeliveryPeriods</a> , Model Group <a href="#">CommodityAsian.model</a> , Model Group <a href="#">CommodityCalculationPeriods.model</a>
Abstract	no
Documentation	A parametric representation of the Calculation Periods for on Asian option or a leg of a swap. In case the calculation frequency is of value T (term), the period is defined by the commoditySwap/effectiveDate and the commoditySwap/terminationDate.

XML Instance Representation

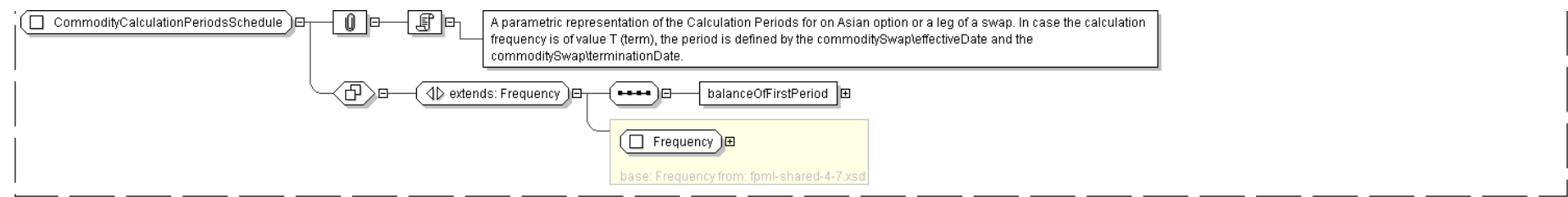
```
<...
id="xsd:ID [0..1]">
  <periodMultiplier> xsd:integer </periodMultiplier> [1]
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying
  an offset relative to another date, e.g. -2 days. If the period value is T (Term)
  then periodMultiplier must contain the value 1.'

  <period> PeriodExtendedEnum </period> [1]
  'A time period, e.g. a day, week, month, year or term of the stream. If the
  periodMultiplier value is 0 (zero) then period must contain the value D (day).'
```

Diagram







Schema Component Representation

```
<xsd:complexType name="CommodityCalculationPeriodsSchedule">
  <xsd:complexContent>
    <xsd:extension base="Frequency" />
    <xsd:sequence>
      <xsd:element name="balanceOfFirstPeriod" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **CommodityDeliveryPeriods**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">ElectricityDeliveryPeriods</a> (by extension)</li><li><a href="#">GasDeliveryPeriods</a> (by extension)</li></ul>

Name	CommodityDeliveryPeriods
Used by (from the same schema document)	Complex Type <a href="#">CoalPhysicalLeg</a> , Complex Type <a href="#">ElectricityPhysicalLeg</a> , Complex Type <a href="#">OilPhysicalLeg</a>
Abstract	no
Documentation	The different options for specifying the Delivery Periods of a physical leg.

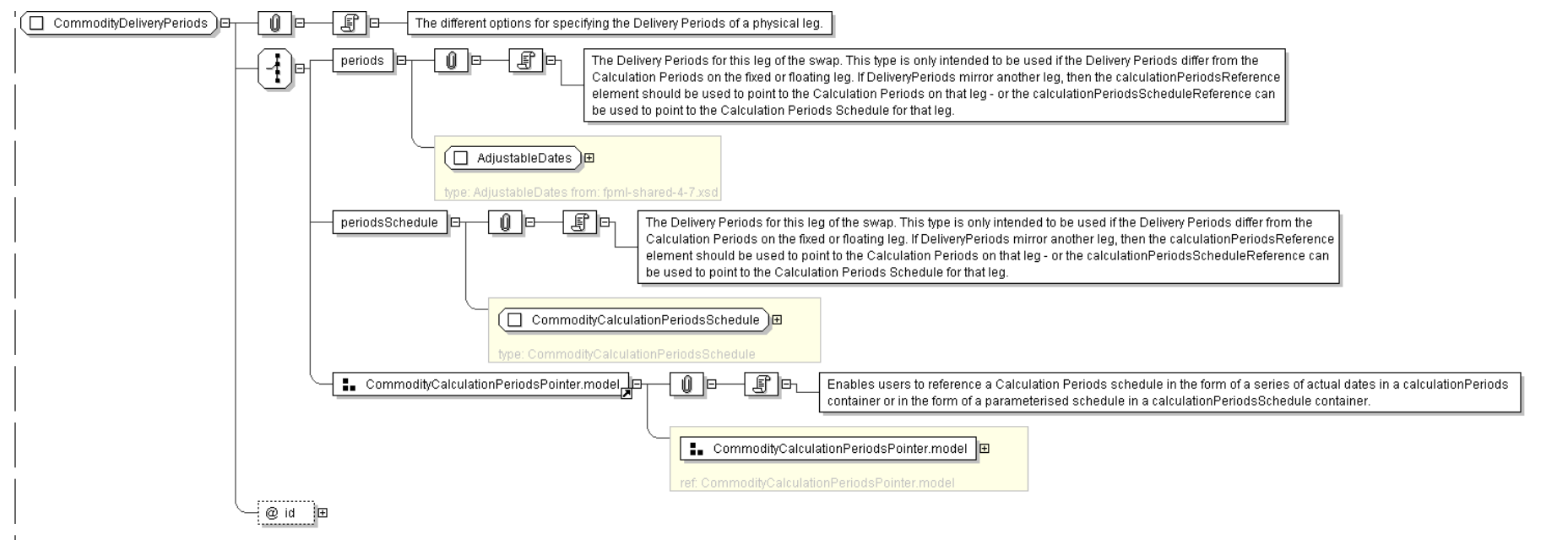
XML Instance Representation

```
<...
id="xsd:ID [0..1]">
Start Choice [1]
  <periods> AdjustableDates </periods> [1]
  'The Delivery Periods for this leg of the swap. This type is only intended to be used if
  the Delivery Periods differ from the Calculation Periods on the fixed or floating leg.
  If DeliveryPeriods mirror another leg, then the calculationPeriodsReference element should
  be used to point to the Calculation Periods on that leg - or
  the calculationPeriodsScheduleReference can be used to point to the Calculation
  Periods Schedule for that leg.'

  <periodsSchedule> CommodityCalculationPeriodsSchedule </periodsSchedule> [1]
  'The Delivery Periods for this leg of the swap. This type is only intended to be used if
  the Delivery Periods differ from the Calculation Periods on the fixed or floating leg.
  If DeliveryPeriods mirror another leg, then the calculationPeriodsReference element should
  be used to point to the Calculation Periods on that leg - or
  the calculationPeriodsScheduleReference can be used to point to the Calculation
  Periods Schedule for that leg.'

End Choice
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityDeliveryPeriods">
  <xsd:choice>
    <xsd:element name="periods" type="AdjustableDates" />
    <xsd:element name="periodsSchedule" type="CommodityCalculationPeriodsSchedule" />
    <xsd:group ref="CommodityCalculationPeriodsPointer.model" />
  </xsd:choice>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityDeliveryPoint**

Super-types:	<a href="#">Scheme</a> < <b>CommodityDeliveryPoint</b> (by extension)
Sub-types:	None

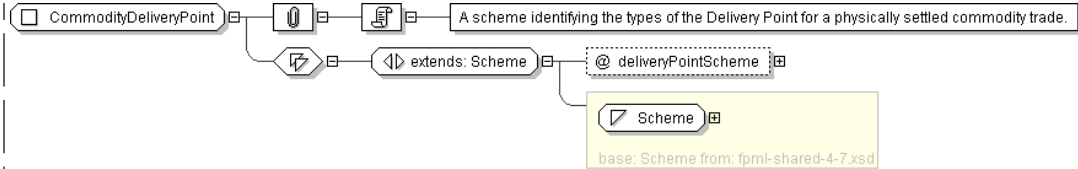
Name	CommodityDeliveryPoint
Used by (from the same schema document)	Complex Type <a href="#">ElectricityDelivery</a> , Complex Type <a href="#">ElectricityDeliverySystemFirm</a> , Complex Type <a href="#">ElectricityDeliveryUnitFirm</a> , Complex Type <a href="#">OilPipelineDelivery</a> , Complex Type <a href="#">OilPipelineDelivery</a> , Complex Type <a href="#">OilPipelineDelivery</a> , Complex Type <a href="#">OilTransferDelivery</a> , Model Group <a href="#">CommodityDeliveryPoints.model</a> , Model Group <a href="#">CommodityDeliveryPoints.model</a>
Abstract	no
Documentation	A scheme identifying the types of the Delivery Point for a physically settled commodity trade.

XML Instance Representation

```
<...
  deliveryPointScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="CommodityDeliveryPoint">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="deliveryPointScheme" type="xsd:anyURI"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **CommodityDeliveryRisk**

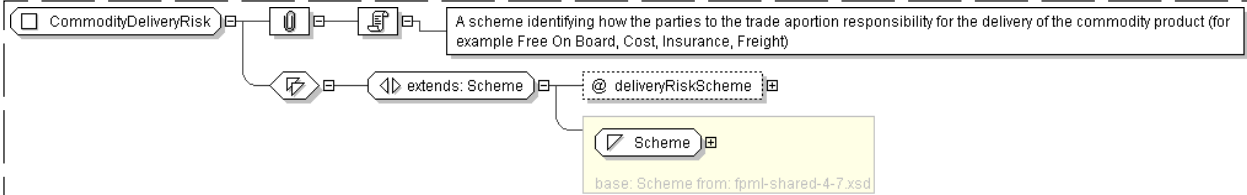
Super-types:	<a href="#">Scheme</a> < <b>CommodityDeliveryRisk</b> (by extension)
Sub-types:	None

Name	CommodityDeliveryRisk
Used by (from the same schema document)	Complex Type <a href="#">OilPipelineDelivery</a> , Model Group <a href="#">CommodityUSCoalDelivery.model</a>
Abstract	no
Documentation	A scheme identifying how the parties to the trade apportion responsibility for the delivery of the commodity product (for example Free On Board, Cost, Insurance, Freight)

XML Instance Representation

```
<...
deliveryRiskScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityDeliveryRisk">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="deliveryRiskScheme" type="xsd:anyURI" default="http://www.fpml.org/coding-scheme/external/incoterms"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityEuropeanExercise**

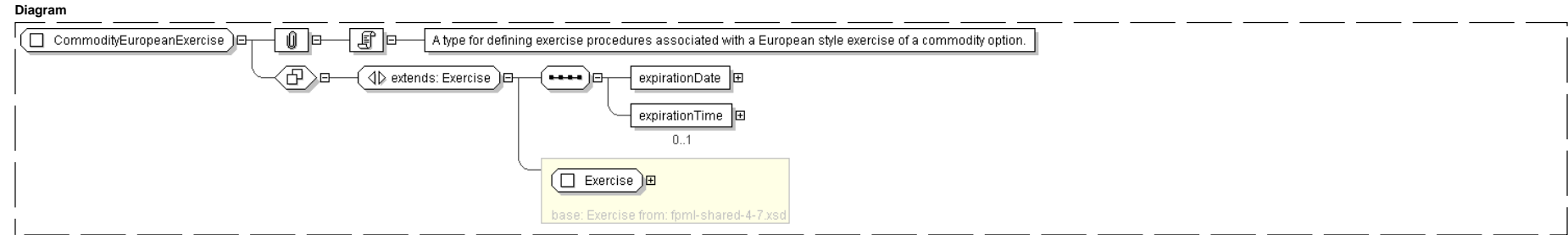
Super-types:	<a href="#">Exercise</a> < <b>CommodityEuropeanExercise</b> (by extension)
Sub-types:	None

Name	CommodityEuropeanExercise
Used by (from the same schema document)	Complex Type <a href="#">CommodityExercise</a>

Abstract	no
Documentation	A type for defining exercise procedures associated with a European style exercise of a commodity option.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]  
  'The last day within an exercise period for an American style option. For a European  
  style option it is the only day within the exercise period. For an averaging option this  
  is equivalent to the Termination Date.'  
  
  <expirationTime> BusinessCenterTime </expirationTime> [0..1]  
  'The specific time of day on which the option expires.'  
  
</...>
```



Schema Component Representation

```
<xsd:complexType name="CommodityEuropeanExercise">  
  <xsd:complexContent>  
    <xsd:extension base=" Exercise " >  
      <xsd:sequence>  
        <xsd:element name="expirationDate" type=" AdjustableOrRelativeDate " />  
        <xsd:element name="expirationTime" type=" BusinessCenterTime " minOccurs="0"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityExercise**

Super-types:	None
Sub-types:	None

Name	CommodityExercise
Used by (from the same schema document)	Complex Type <a href="#">CommodityOption</a>
Abstract	no
Documentation	The parameters for defining how the commodity option can be exercised, how it is priced and how it is settled.

XML Instance Representation

```
<...>  
Start Choice [1]  
  <americanExercise> CommodityAmericanExercise </americanExercise> [1]  
  'The parameters for defining the exercise period for an American style option together with  
  the rules governing the quantity of the commodity that can be exercised on any given  
  exercise date.'  
  
  <europeanExercise> CommodityEuropeanExercise </europeanExercise> [1]  
  'The parameters for defining the expiration date and time for a European or Asian style  
  option. For an Asian style option the expiration date is equivalent to the termination date.'  
  
End Choice  
  <automaticExercise> xsd:boolean </automaticExercise> [0..1]  
  'Specifies whether or not Automatic Exercise applies to a Commodity Option Transaction.'
```

```
<writtenConfirmation> xsd:boolean </writtenConfirmation> [0..1]
```

'Specifies whether or not Written Confirmation applies to a Commodity Option Transaction.'

```
<settlementCurrency> IdentifiedCurrency </settlementCurrency> [1]
```

'The currency into which the Commodity Option Transaction will settle. If this is not the same as the currency in which the Commodity Reference Price is quoted, then an FX determination method should also be specified.'

```
<fx> CommodityFx </fx> [0..1]
```

'FX observations to be used to convert the observed Commodity Reference Price to the Settlement Currency.'

```
<conversionFactor> xsd:decimal </conversionFactor> [0..1]
```

'If the Notional Quantity is specified in a unit that does not match the unit in which the Commodity Reference Price is quoted, the scaling or conversion factor used to convert the Commodity Reference Price unit into the Notional Quantity unit should be stated here. If there is no conversion, this element is not intended to be used.'

Start Choice [1]

```
<relativePaymentDates> CommodityRelativePaymentDates </relativePaymentDates> [1]
```

'The Payment Dates of the trade relative to the Calculation Periods.'

Start Choice [1]

```
<paymentDates> AdjustableDatesOrRelativeDateOffset </paymentDates> [1]
```

'Dates on which payments will be made.'

```
<masterAgreementPaymentDates> xsd:boolean </masterAgreementPaymentDates> [1]
```

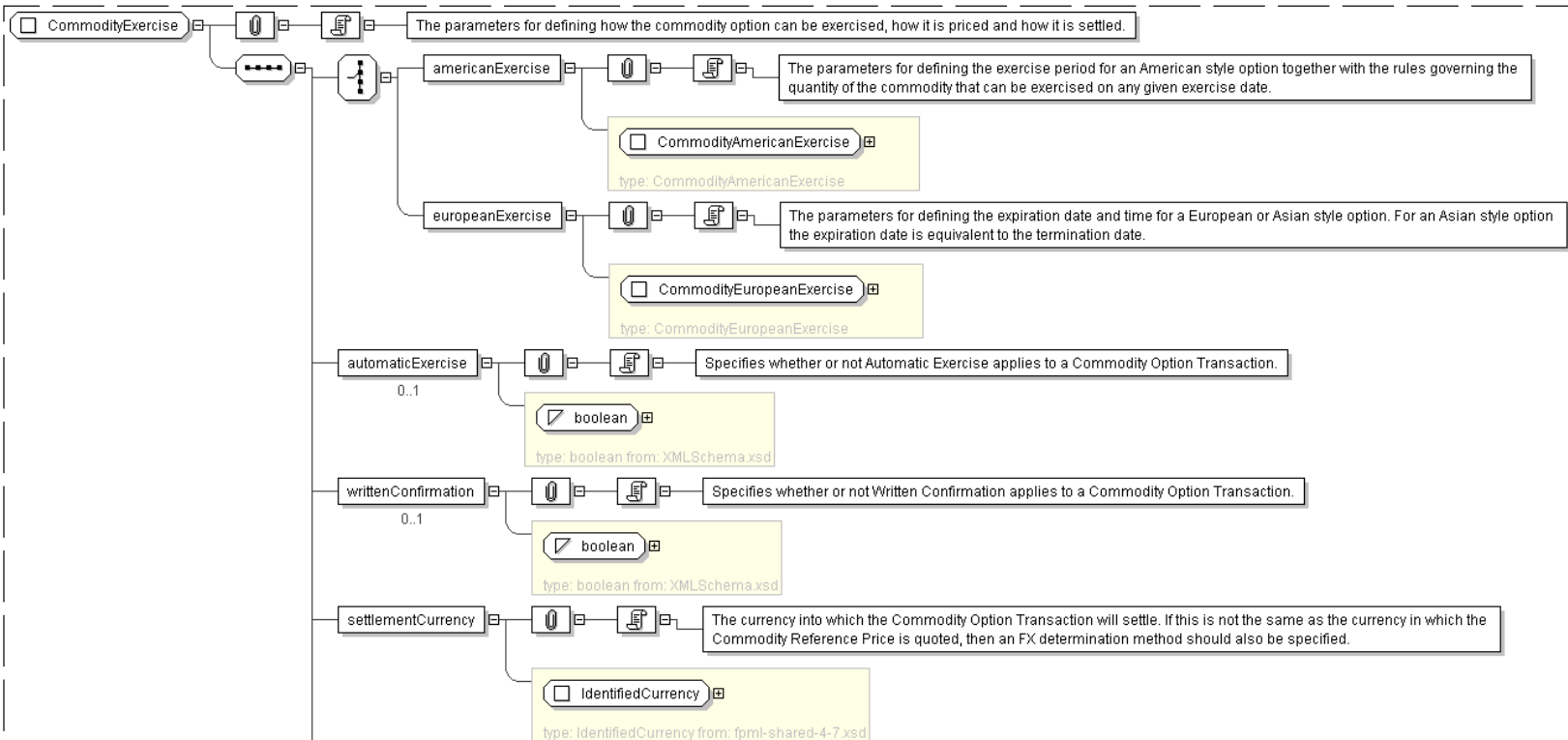
'If present and true indicates that the Payment Date(s) are specified in the relevant master agreement.'

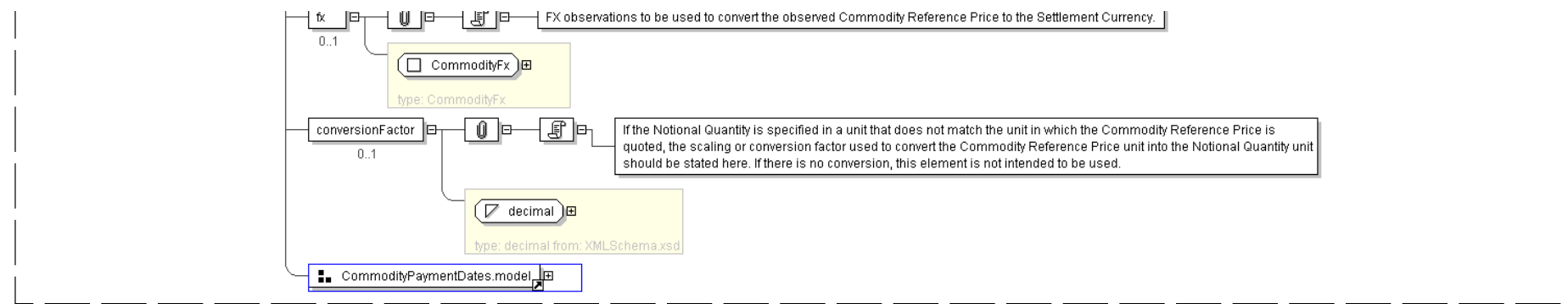
End Choice

End Choice

```
</...>
```

#### Diagram





Schema Component Representation

```
<xsd:complexType name="CommodityExercise">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="americanExercise" type=" CommodityAmericanExercise " />
      <xsd:element name="europeanExercise" type=" CommodityEuropeanExercise " />
    </xsd:choice>
    <xsd:element name="automaticExercise" type=" xsd:boolean " minOccurs="0"/>
    <xsd:element name="writtenConfirmation" type=" xsd:boolean " minOccurs="0"/>
    <xsd:element name="settlementCurrency" type=" IdentifiedCurrency " />
    <xsd:element name="fx" type=" CommodityFx " minOccurs="0"/>
    <xsd:element name="conversionFactor" type=" xsd:decimal " minOccurs="0"/>
    <xsd:group ref=" CommodityPaymentDates.model " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **CommodityFixedPriceSchedule**

Super-types:	None
Sub-types:	None
Name	CommodityFixedPriceSchedule
Used by (from the same schema document)	Model Group <a href="#">CommodityFixedPrice.model</a>
Abstract	no
Documentation	The Fixed Price for a given Calculation Period during the life of the trade. There must be a Fixed Price step specified for each Calculation Period, regardless of whether the Fixed Price changes or remains the same between periods.

XML Instance Representation

```
<...>
Start Choice [1]
<fixedPriceStep> FixedPrice </fixedPriceStep> [1..*]
  'The Fixed Price for a given Calculation Period during the life of the trade. There must be a Fixed Price step specified for each Calculation Period, regardless of whether the Fixed Price changes or remains the same between periods.'

<worldscaleRateStep> xsd:decimal </worldscaleRateStep> [1..*]
  'For a Wet Voyager Charter Freight Swap, the number of Worldscale Points for purposes of the calculation of a Fixed Amount for a given Calculation Period during the life of the trade. There must be Worldscale Rate Step specified for each Calculation Period, regardless of whether the Worldscale Rate Step changes or remains the same between periods.'

<contractRateStep> NonNegativeMoney </contractRateStep> [1..*]
  'For a DRY Voyage Charter or Time Charter Freight Swap, the price per relevant unit for purposes of the calculation of a Fixed Amount for a given Calculation Period during the life of the trade. There must be Worldscale Rate Step specified for each Calculation Period, regardless of whether the Worldscale Rate Step changes or remains the same between periods.'

<settlementPeriodsPriceSchedule> CommoditySettlementPeriodsPriceSchedule
</settlementPeriodsPriceSchedule> [1..*]
  'For an electricity transaction, the fixed price schedule for one or more groups of Settlement Periods on which fixed payments are based. if the schedule differs for
```

different groups of Settlement Periods, this element should be repeated.'

```

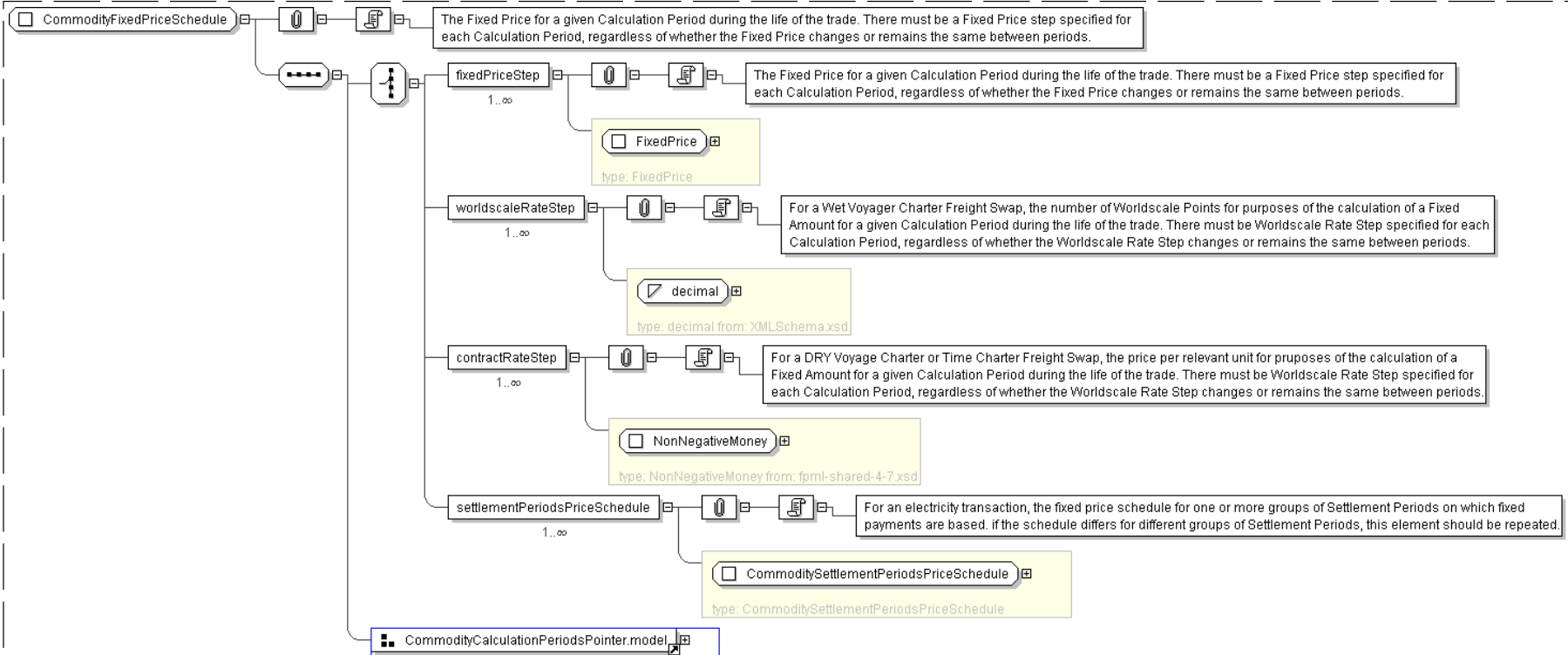
End Choice
Start Choice [1]
<calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
'A pointer style reference to the Calculation Periods defined on another leg.'

<calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
</calculationPeriodsScheduleReference> [1]
'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

End Choice
</...>

```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="CommodityFixedPriceSchedule">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="fixedPriceStep" type="FixedPrice" maxOccurs="unbounded"/>
      <xsd:element name="worldscaleRateStep" type="xsd:decimal" maxOccurs="unbounded"/>
      <xsd:element name="contractRateStep" type="NonNegativeMoney" maxOccurs="unbounded"/>
      <xsd:element name="settlementPeriodsPriceSchedule"
        type="CommoditySettlementPeriodsPriceSchedule" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:group ref="CommodityCalculationPeriodsPointer.model"/>
  </xsd:sequence>
</xsd:complexType>

```

Super-types:	<a href="#">Product</a> < <b>CommodityForward</b> (by extension)
Sub-types:	None

Name	CommodityForward
Used by (from the same schema document)	Element <a href="#">commodityForward</a>
Abstract	no
Documentation	Commodity Forward

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <valueDate> AdjustableOrRelativeDate </valueDate> [1]
  'Specifies the value date of the Commodity Forward Transaction. This is the day on which
  both the cash and the physical commodity settle.'

  <fixedLeg> NonPeriodicFixedPriceLeg </fixedLeg> [1]
  'The fixed leg of a Commodity Forward Transaction'

  Start Choice [1]
  'This choice group is intended to allow legs based on different classes of commodity to
  be added to the schema as this becomes necessary.'

  <bullionPhysicalLeg> BullionPhysicalLeg </bullionPhysicalLeg> [1]
  'The physical leg of a Commodity Forward Transaction for which the underlyer is Bullion.'

  <additionalCommodityForwardLeg> ... </additionalCommodityForwardLeg> [1]
End Choice
Start Group: CommodityContent.model [0..1]
  <commonPricing> xsd:boolean </commonPricing> [0..1]
  'Common pricing may be relevant for a Transaction that references more than one
  Commodity Reference Price. If Common Pricing is not specified as applicable, it will be
  deemed not to apply.'

  <marketDisruption> CommodityMarketDisruption </marketDisruption> [0..1]
  'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA
  2005 Commodity Definitions, as applicable.'

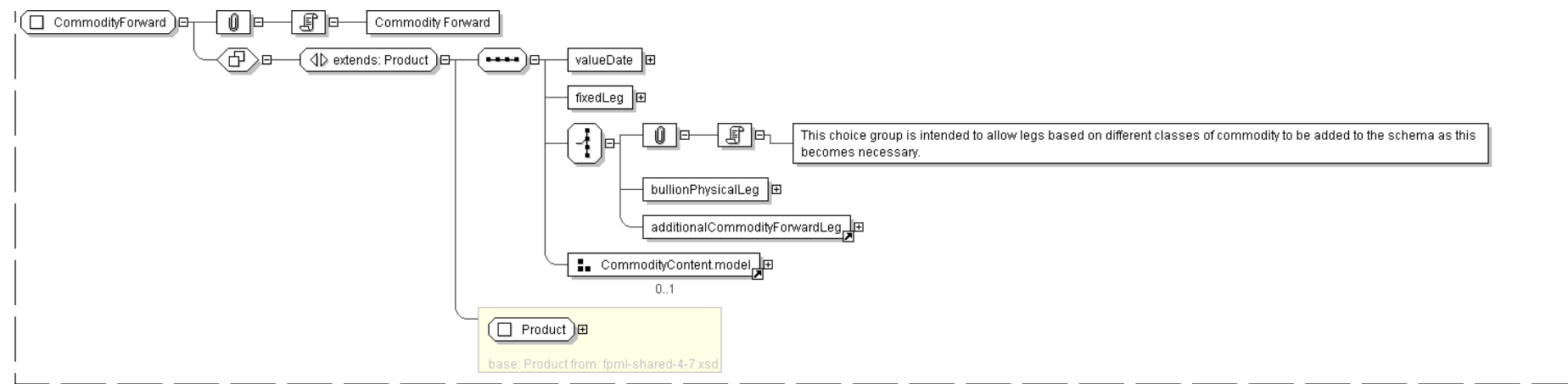
  <settlementDisruption> CommodityBullionSettlementDisruptionEnum </settlementDisruption> [0..1]
  'The consequences of Bullion Settlement Disruption Events.'

  <rounding> Rounding </rounding> [0..1]
  'Rounding direction and precision for amounts.'

End Group: CommodityContent.model
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="CommodityForward">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:element name="valueDate" type="AdjustableOrRelativeDate"/>
        <xsd:element name="fixedLeg" type="NonPeriodicFixedPriceLeg"/>
        <xsd:choice>
          <xsd:element name="bullionPhysicalLeg" type="BullionPhysicalLeg"/>
          <xsd:element ref="additionalCommodityForwardLeg"/>
        </xsd:choice>
        <xsd:group ref="CommodityContent.model" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **CommodityFrequencyType**

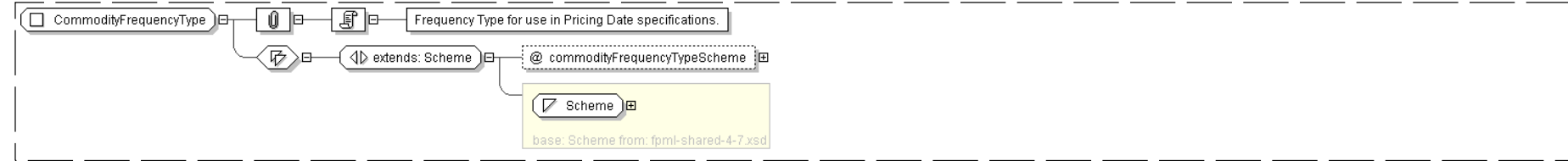
Super-types:	<a href="#">Scheme</a> < <b>CommodityFrequencyType</b> (by extension)
Sub-types:	None

Name	CommodityFrequencyType
Used by (from the same schema document)	Model Group <a href="#">PricingDays.model</a>
Abstract	no
Documentation	Frequency Type for use in Pricing Date specifications.

XML Instance Representation

```
<...
  commodityFrequencyTypeScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityFrequencyType">
```

```
<xsd:simpleContent>
  <xsd:extension base=" Scheme "
    <xsd:attribute name="commodityFrequencyTypeScheme" type=" xsd:anyURI " default="http://www.
      fpml.org/coding-scheme/commodity-frequency-type"/>
  </xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **CommodityFx**

Super-types:	None
Sub-types:	None
Name	CommodityFx
Used by (from the same schema document)	Complex Type <a href="#">CommodityExercise</a> , Complex Type <a href="#">FloatingLegCalculation</a>
Abstract	no
Documentation	A type defining the FX observations to be used to convert the observed Commodity Reference Price to the Settlement Currency. The rate source must be specified. Additionally, a time for the spot price to be observed on that source may be specified, or else an averaging schedule for trades priced using an average FX rate.

XML Instance Representation

```
<...>
  <primaryRateSource> InformationSource </primaryRateSource> [1]
  'The primary source for where the rate observation will occur. Will typically be either a
  page or a reference bank published rate.'

  <secondaryRateSource> InformationSource </secondaryRateSource> [0..1]
  'An alternative, or secondary, source for where the rate observation will occur. Will
  typically be either a page or a reference bank published rate.'

  <fxType> CommodityFxType </fxType> [0..1]
  'A type to identify how the FX rate will be applied. This is intended to differentiate
  between the various methods for applying FX to the floating price such as a daily
  calculation, or averaging the FX and applying the average at the end of each CalculationPeriod.'

  <averagingMethod> AveragingMethodEnum </averagingMethod> [0..1]
  'The parties may specify a Method of Averaging when averaging of the FX rate is applicable.'

  Start Choice [0..1]
    <fixingTime> BusinessCenterTime </fixingTime> [1]
    'The time at which the spot currency exchange rate will be observed. It is specified as a
    time in a specific business center, e.g. 11:00am London time.'

  Start Choice [1]
    <fxObservationDates> AdjustableDates </fxObservationDates> [1..*]
    'A list of the fx observation dates for a given Calculation Period.'

  Start Sequence [0..1]
    <dayType> CommodityDayTypeEnum </dayType> [1]
    'The type of day on which pricing occurs.'

  Start Choice [1]
    <dayDistribution> CommodityFrequencyType </dayDistribution> [1]
    'The method by which the pricing days are distributed across the pricing period.'

    <dayCount> xsd:positiveInteger </dayCount> [0..1]
    'The number of days over which pricing should take place.'

    <dayOfWeek> DayOfWeekEnum </dayOfWeek> [1..7]
    'The day(s) of the week on which pricing will take place during the pricing period.'

    <dayNumber> xsd:integer </dayNumber> [0..1]
    'The occurrence of the dayOfWeek within the pricing period on which pricing will take place,
    e.g. the 3rd Friday within each Calculation Period. If omitted, every dayOfWeek will be
    a pricing day.'

  End Choice
  Start Group: LagOrReference.model [0..1]
```

Start Choice [1]

<lag> [Lag](#) </lag> [1]

'The pricing period per calculation period if the pricing days do not wholly fall within the respective calculation period.'

<lagReference> [LagReference](#) </lagReference> [1]

'Allows a lag to reference one already defined elsewhere in the trade.'

End Choice

End Group: [LagOrReference.model](#)

End Sequence

Start Choice [1]

<calculationPeriodsReference> [CalculationPeriodsReference](#) </calculationPeriodsReference> [1]

'A pointer style reference to the Calculation Periods defined on another leg.'

<calculationPeriodsScheduleReference> [CalculationPeriodsScheduleReference](#)

</calculationPeriodsScheduleReference> [1]

'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

End Choice

End Choice

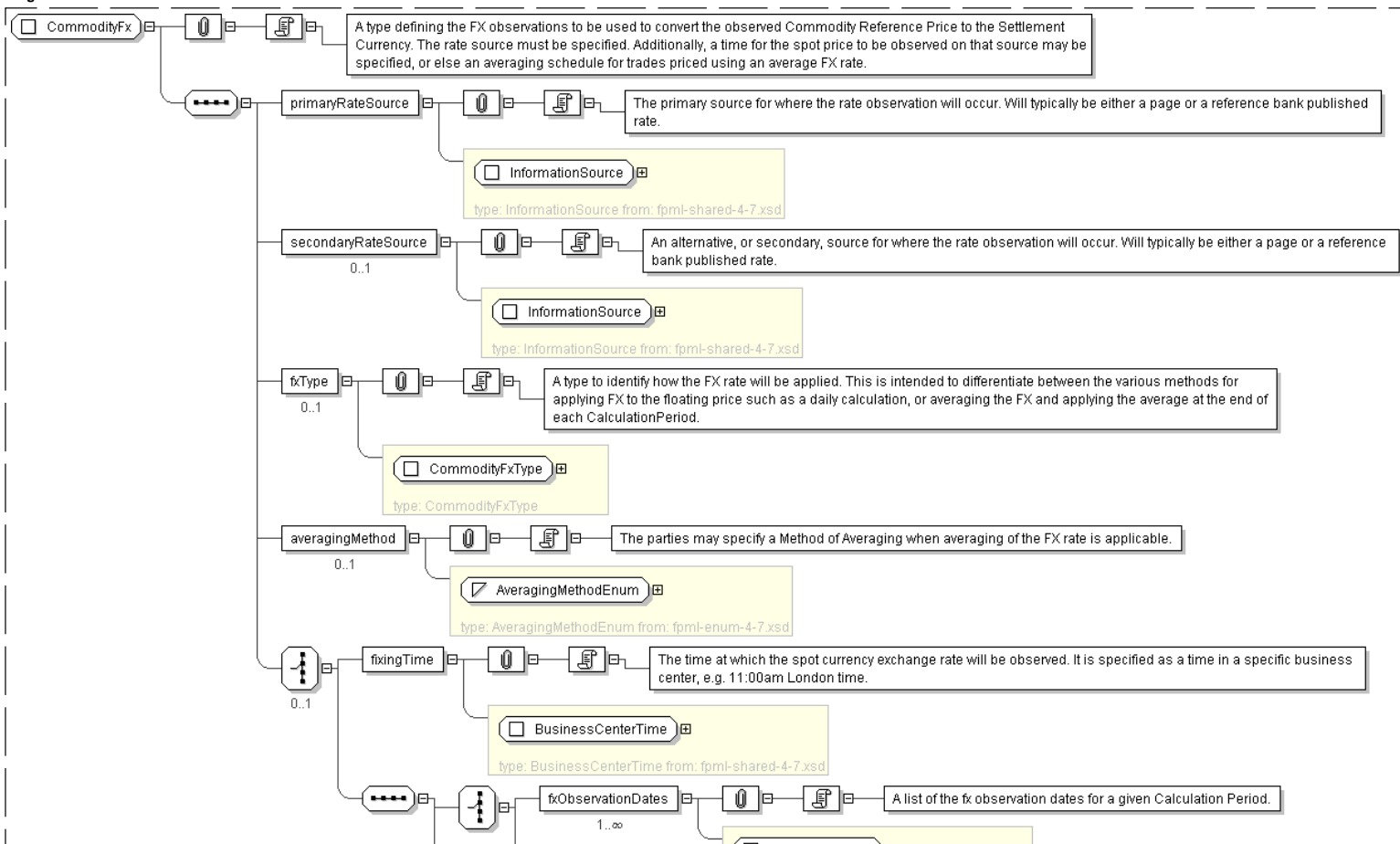
<fixingTime> [BusinessCenterTime](#) </fixingTime> [0..1]

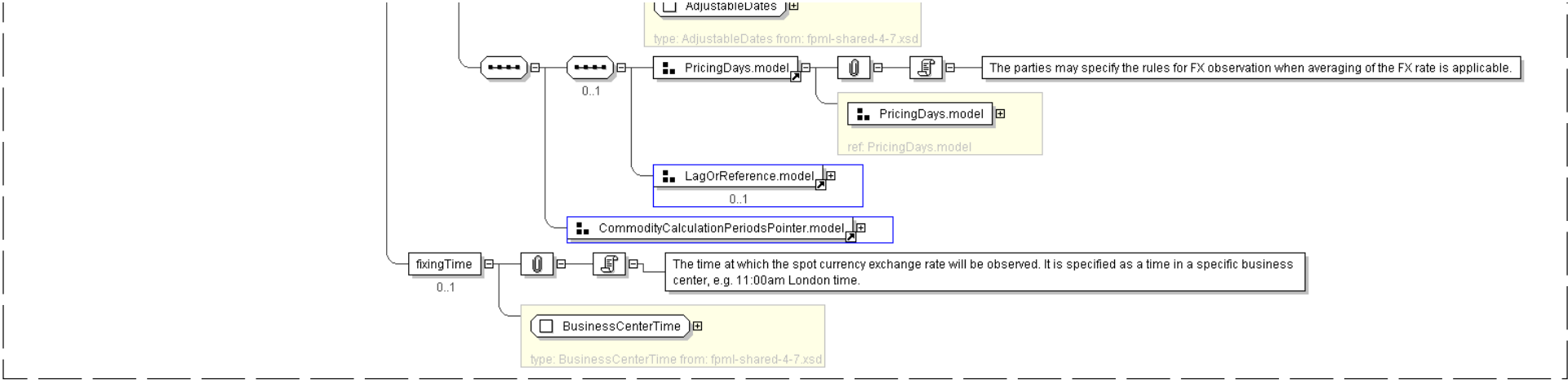
'The time at which the spot currency exchange rate will be observed. It is specified as a time in a specific business center, e.g. 11:00am London time.'

End Choice

</...>

#### Diagram





Schema Component Representation

```
<xsd:complexType name="CommodityFx">
  <xsd:sequence>
    <xsd:element name="primaryRateSource" type="InformationSource" />
    <xsd:element name="secondaryRateSource" type="InformationSource" minOccurs="0"/>
    <xsd:element name="fxType" type="CommodityFxType" minOccurs="0"/>
    <xsd:element name="averagingMethod" type="AveragingMethodEnum" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="fixingTime" type="BusinessCenterTime" />
      <xsd:sequence>
        <xsd:choice>
          <xsd:element name="fxObservationDates" type="AdjustableDates" maxOccurs="unbounded"/>
          <xsd:sequence>
            <xsd:sequence minOccurs="0">
              <xsd:group ref="PricingDays.model" />
              <xsd:group ref="LagOrReference.model" minOccurs="0"/>
            </xsd:sequence>
            <xsd:group ref="CommodityCalculationPeriodsPointer.model" />
          </xsd:sequence>
        </xsd:choice>
        <xsd:element name="fixingTime" type="BusinessCenterTime" minOccurs="0"/>
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **CommodityFxType**

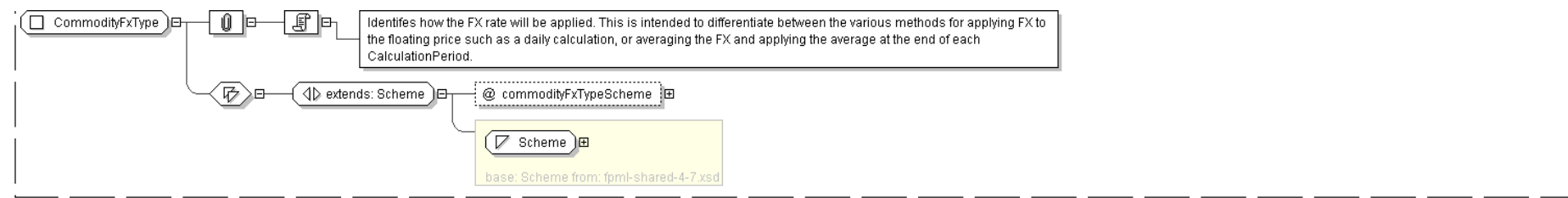
Super-types:	<a href="#">Scheme</a> < <b>CommodityFxType</b> (by extension)
Sub-types:	None

Name	CommodityFxType
Used by (from the same schema document)	Complex Type <a href="#">CommodityFx</a>
Abstract	no
Documentation	Identifies how the FX rate will be applied. This is intended to differentiate between the various methods for applying FX to the floating price such as a daily calculation, or averaging the FX and applying the average at the end of each CalculationPeriod.

XML Instance Representation

```
<...
  commodityFxTypeScheme="xsd:anyURI [0..1]">
    Scheme
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityFxType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="commodityFxTypeScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/commodity-fx-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **CommodityHub**

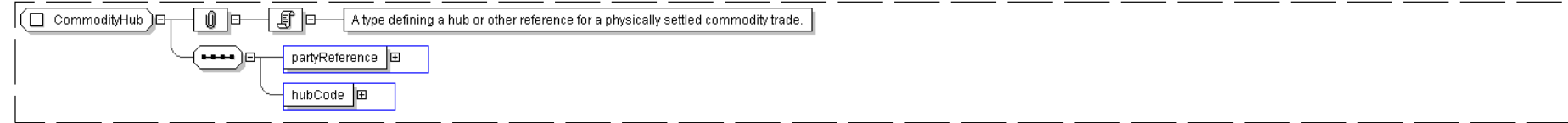
Super-types:	None
Sub-types:	None

Name	CommodityHub
Used by (from the same schema document)	Complex Type <a href="#">GasDelivery</a> , Complex Type <a href="#">GasDelivery</a>
Abstract	no
Documentation	A type defining a hub or other reference for a physically settled commodity trade.

XML Instance Representation

```
<...>
  <partyReference> PartyOrAccountReference </partyReference> [1]
  <hubCode> CommodityHubCode </hubCode> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityHub">
  <xsd:sequence>
    <xsd:element name="partyReference" type=" PartyOrAccountReference "/>
    <xsd:element name="hubCode" type=" CommodityHubCode "/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **CommodityHubCode**

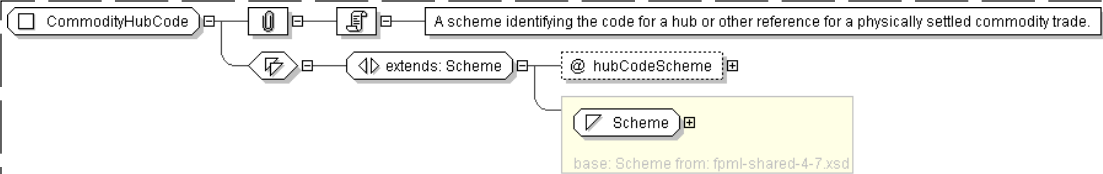
Super-types:	<a href="#">Scheme</a> < <b>CommodityHubCode</b> (by extension)
Sub-types:	None

Name	CommodityHubCode
Used by (from the same schema document)	Complex Type <a href="#">CommodityHub</a>
Abstract	no
Documentation	A scheme identifying the code for a hub or other reference for a physically settled commodity trade.

XML Instance Representation

```
<...  
hubCodeScheme=" xsd:anyURI [1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityHubCode">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="hubCodeScheme" type=" xsd:anyURI " use="required"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **CommodityMarketDisruption**

Super-types:	None
Sub-types:	None

Name	CommodityMarketDisruption
Used by (from the same schema document)	Model Group <a href="#">CommodityContent.model</a>
Abstract	no
Documentation	ISDA 1993 or 2005 commodity market disruption elements.

XML Instance Representation

```
<...>  
Start Choice [1]  
  <marketDisruptionEvents> MarketDisruptionEventsEnum </marketDisruptionEvents> [1]  
  'If Market disruption Events are stated to be Applicable then the default Market  
  Disruption Events of Section 7.4(d)(i) of the ISDA Commodity Definitions shall apply  
  unless specific Market Disruption Events are stated hereunder, in which case these  
  shall override the ISDA defaults. If Market Disruption Events are stated to be Not  
  Applicable, Market Disruption Events are not applicable to the trade at all. It is  
  also possible to reference the Market Disruption Events set out in the relevant  
  Master Agreement governing the trade.'  
  
  <additionalMarketDisruptionEvent> MarketDisruptionEvent </additionalMarketDisruptionEvent>  
  [0..*]  
  'To be used when marketDisruptionEvents is set to \"Applicable\" and additional  
  market disruption events(s) apply to the default market disruption events of Section 7.4(d)  
  (i) of the ISDA Commodity Definitions.'  
  
  <marketDisruptionEvent> MarketDisruptionEvent </marketDisruptionEvent> [1..*]  
  'Market disruption event(s) that apply. Note that these should only be specified if the  
  default market disruption events of Section 7.4(d)(i) of the ISDA Commodity Definitions are  
  to be overridden.'  
  
End Choice  
Start Choice [0..1]  
  'If omitted then the standard disruption fallbacks of Section 7.5(d)(i) of the ISDA  
  Commodity Definitions shall apply.'  
  
  <disruptionFallbacks> DisruptionFallbacksEnum </disruptionFallbacks> [1]  
  'To be used where disruption fallbacks are set out in the relevant Master Agreement  
  governing the trade.'
```

```

    <disruptionFallback> SequencedDisruptionFallback </disruptionFallback> [1..*]
  End Choice
  <fallbackReferencePrice> Underlier </fallbackReferencePrice> [0..1]
  'A fallback commodity reference price for use when relying on Disruption Fallbacks in
  Section 7.5(d)(i) of the ISDA Commodity Definitions or have selected \"Fallback Reference
  Price\" as a disruptionFallback.'

  <maximumNumberOfDaysOfDisruption> xsd:nonNegativeInteger </
  maximumNumberOfDaysOfDisruption> [0..1]
  '2005 Commodity Definitions only. If omitted , the number of days specified in Section 7.6
  (a) of the Definitions will apply.'

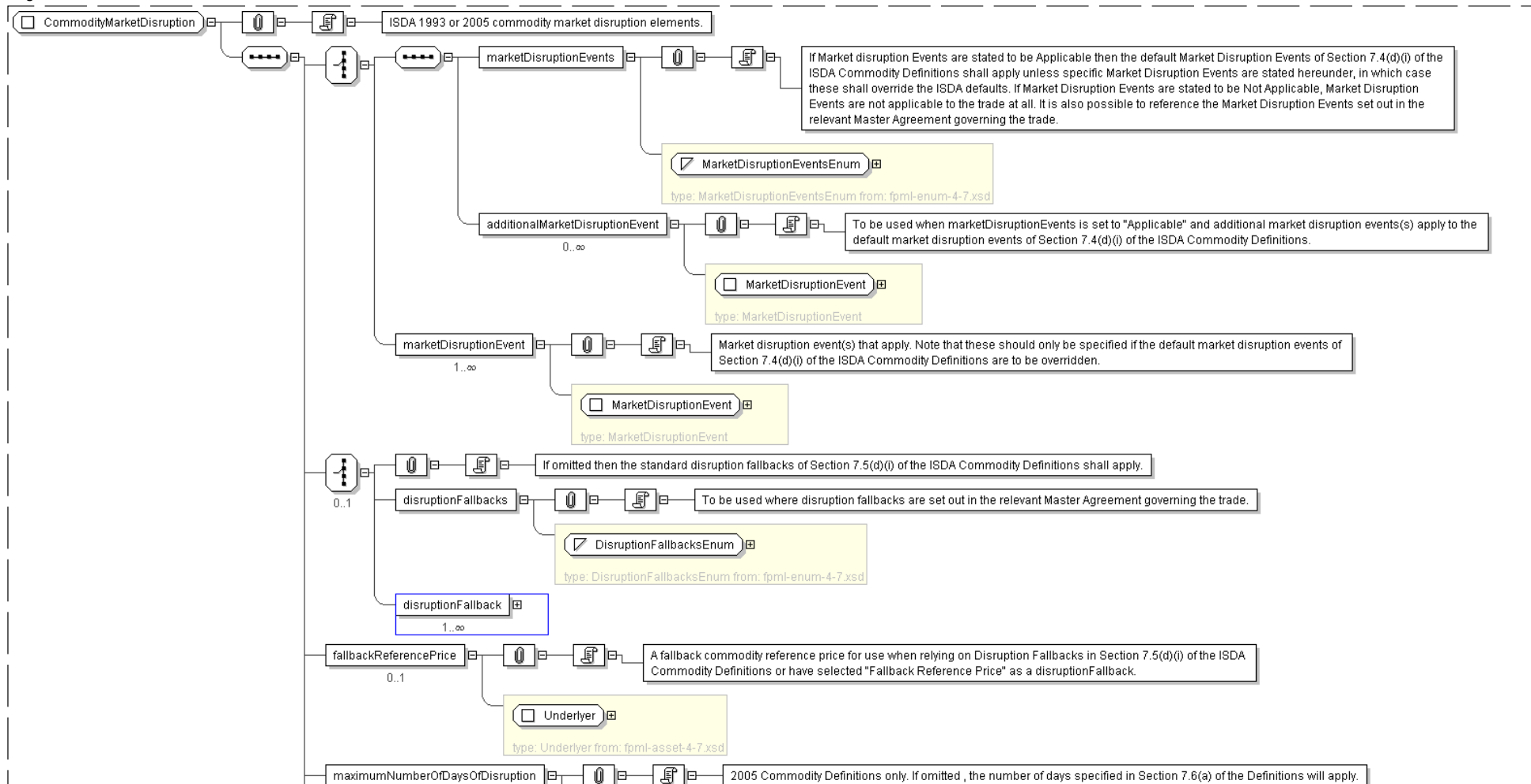
  <priceMaterialityPercentage> xsd:decimal </priceMaterialityPercentage> [0..1]
  '2005 Commodity Definitions only. To be used where a price materiality percentage applies
  to the \"Price Source Disruption\" event and this event has been specified by
  setting marketDisruption to true or including it in additionalMarketDisruptionEvent'

  <minimumFuturesContracts> xsd:positiveInteger </minimumFuturesContracts> [0..1]
  '1993 Commodity Definitions only. Specifies the Mimum Futures Contracts level that
  dictates whether or not a \"De Minimis Trading\" event has occurred. Only relevant if
  \"De Minimis Trading\" has been specified in marketDisruptionEvent
  or additionalMarketDisruptionEvent.'

</...>

```

## Diagram





Schema Component Representation

```
<xsd:complexType name="CommodityMarketDisruption">
  <xsd:sequence>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="marketDisruptionEvents" type=" MarketDisruptionEventsEnum " />
        <xsd:element name="additionalMarketDisruptionEvent" type=" MarketDisruptionEvent "
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
      <xsd:element name="marketDisruptionEvent" type=" MarketDisruptionEvent " maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:choice minOccurs="0">
      <xsd:element name="disruptionFallbacks" type=" DisruptionFallbacksEnum " />
      <xsd:element name="disruptionFallback" type=" SequencedDisruptionFallback "
        maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:element name="fallbackReferencePrice" type=" Underlyer " minOccurs="0"/>
    <xsd:element name="maximumNumberOfDaysOfDisruption" type=" xsd:nonNegativeInteger "
      minOccurs="0"/>
    <xsd:element name="priceMaterialityPercentage" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="minimumFuturesContracts" type=" xsd:positiveInteger " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: CommodityMultipleExercise

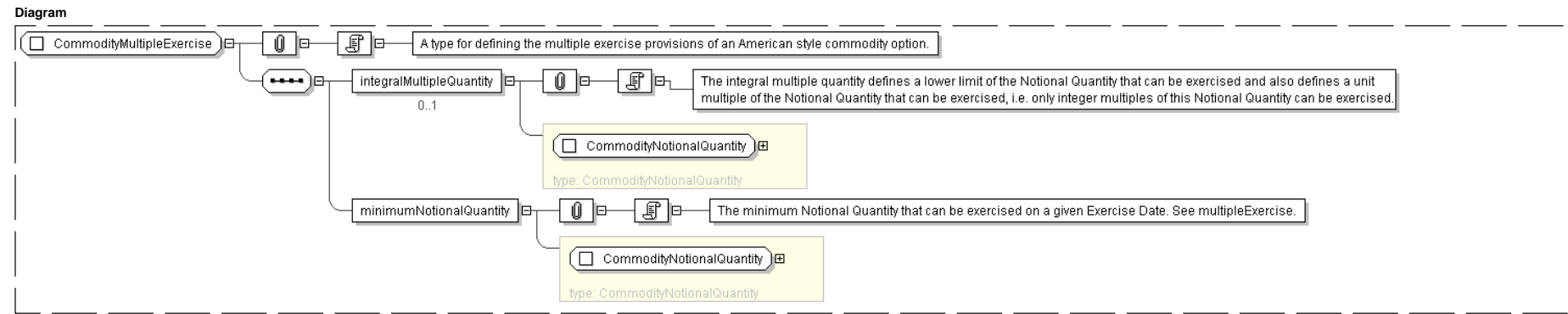
Super-types:	None
Sub-types:	None
Name	CommodityMultipleExercise
Used by (from the same schema document)	Complex Type <a href="#">CommodityAmericanExercise</a>
Abstract	no
Documentation	A type for defining the multiple exercise provisions of an American style commodity option.

XML Instance Representation

```
<...>
  <integralMultipleQuantity> CommodityNotionalQuantity </integralMultipleQuantity> [0..1]
  'The integral multiple quantity defines a lower limit of the Notional Quantity that can
  be exercised and also defines a unit multiple of the Notional Quantity that can be exercised,
  i.e. only integer multiples of this Notional Quantity can be exercised.'

  <minimumNotionalQuantity> CommodityNotionalQuantity </minimumNotionalQuantity> [1]
  'The minimum Notional Quantity that can be exercised on a given Exercise Date.
  See multipleExercise.'
```





Schema Component Representation

```
<xsd:complexType name="CommodityMultipleExercise">
  <xsd:sequence>
    <xsd:element name="integralMultipleQuantity" type="CommodityNotionalQuantity" minOccurs="0"/>
    <xsd:element name="minimumNotionalQuantity" type="CommodityNotionalQuantity"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityNotionalQuantity**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">CommoditySettlementPeriodsNotionalQuantity</a> (by extension)</li><li><a href="#">ElectricityPhysicalDeliveryQuantity</a> (by extension)</li></ul>

Name	CommodityNotionalQuantity
Used by (from the same schema document)	Complex Type <a href="#">CommodityMultipleExercise</a> , Complex Type <a href="#">CommodityMultipleExercise</a> , Complex Type <a href="#">CommodityNotionalQuantitySchedule</a> , Complex Type <a href="#">CommodityPhysicalQuantitySchedule</a> , Complex Type <a href="#">CommoditySettlementPeriodsNotionalQuantitySchedule</a> , Complex Type <a href="#">GasPhysicalQuantity</a> , Complex Type <a href="#">GasPhysicalQuantity</a> , Model Group <a href="#">CommodityFixedPhysicalQuantity.model</a> , Model Group <a href="#">CommodityNotionalQuantity.model</a>
Abstract	no
Documentation	Commodity Notional.

XML Instance Representation

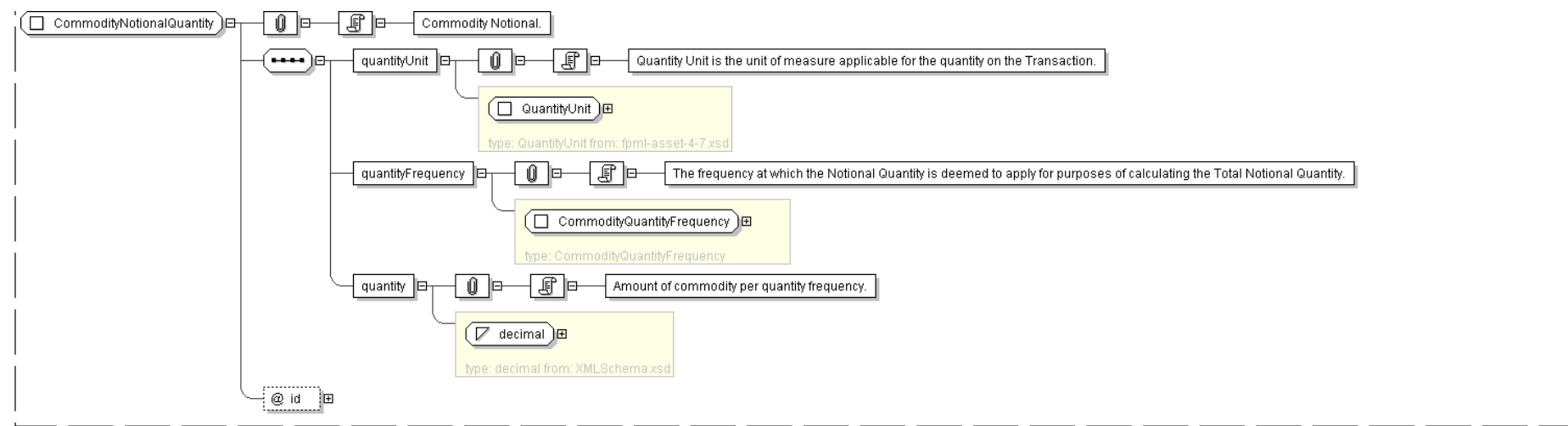
```
<...
id="xsd:ID [0..1]*">
  <quantityUnit> QuantityUnit </quantityUnit> [1]
  'Quantity Unit is the unit of measure applicable for the quantity on the Transaction.'

  <quantityFrequency> CommodityQuantityFrequency </quantityFrequency> [1]
  'The frequency at which the Notional Quantity is deemed to apply for purposes of
  calculating the Total Notional Quantity.'

  <quantity> xsd:decimal </quantity> [1]
  'Amount of commodity per quantity frequency.'

</...>
```





Schema Component Representation

```
<xsd:complexType name="CommodityNotionalQuantity">
  <xsd:sequence>
    <xsd:element name="quantityUnit" type=" QuantityUnit " />
    <xsd:element name="quantityFrequency" type=" CommodityQuantityFrequency " />
    <xsd:element name="quantity" type=" xsd:decimal " />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityNotionalQuantitySchedule**

Super-types:	None
Sub-types:	None
Name	CommodityNotionalQuantitySchedule
Used by (from the same schema document)	Model Group <a href="#">CommodityNotionalQuantity.model</a>
Abstract	no
Documentation	The Notional Quantity per Calculation Period. There must be a Notional Quantity step specified for each Calculation Period, regardless of whether the Notional Quantity changes or remains the same between periods.

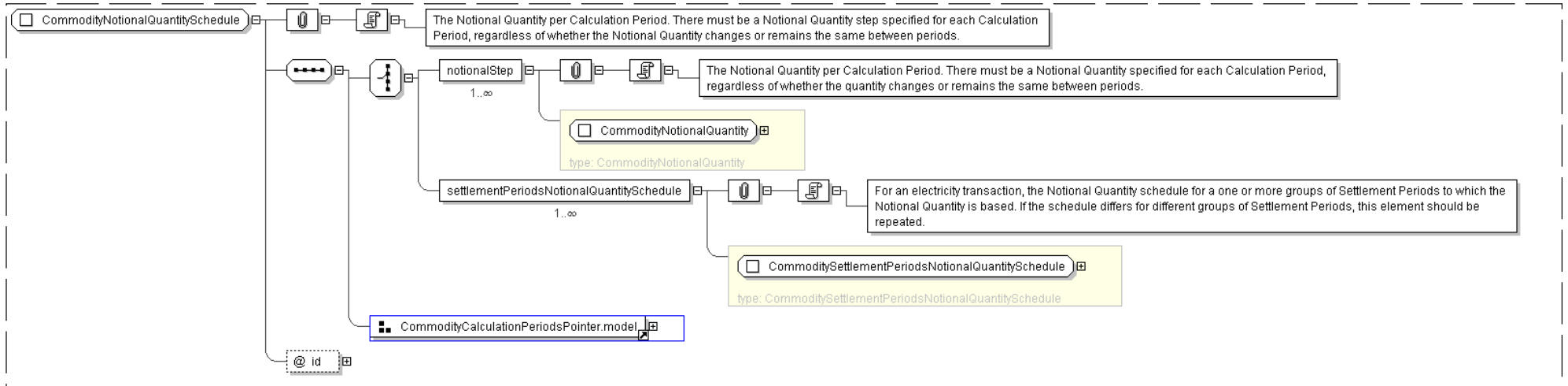
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <notionalStep> CommodityNotionalQuantity </notionalStep> [1..*]
  'The Notional Quantity per Calculation Period. There must be a Notional Quantity specified
  for each Calculation Period, regardless of whether the quantity changes or remains the
  same between periods.'
  <settlementPeriodsNotionalQuantitySchedule>
CommoditySettlementPeriodsNotionalQuantitySchedule </
settlementPeriodsNotionalQuantitySchedule> [1..*]
  'For an electricity transaction, the Notional Quantity schedule for a one or more groups
  of Settlement Periods to which the Notional Quantity is based. If the schedule differs
  for different groups of Settlement Periods, this element should be repeated.'
End Choice
Start Choice [1]
  <calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
  'A pointer style reference to the Calculation Periods defined on another leg.'
  <calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
</calculationPeriodsScheduleReference> [1]
```

'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

End Choice  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityNotionalQuantitySchedule">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="notionalStep" type="CommodityNotionalQuantity" maxOccurs="unbounded"/>
      <xsd:element name="settlementPeriodsNotionalQuantitySchedule"
        type="CommoditySettlementPeriodsNotionalQuantitySchedule" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:group ref="CommodityCalculationPeriodsPointer.model"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityOption**

Super-types:	<a href="#">Product</a> < <b>CommodityOption</b> (by extension)
Sub-types:	None
Name	CommodityOption
Used by (from the same schema document)	Element <a href="#">commodityOption</a>
Abstract	no
Documentation	Commodity Option.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
```

of FRAs this the fixed rate payer.'

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

<optionType> [PutCallEnum](#) </optionType> [1]

'The type of option transaction.'

<commodity> [Commodity](#) </commodity> [1]

'Specifies the underlying component. At the time of the initial schema design, only underlyers of type Commodity are supported; the choice group in the future could offer the possibility of adding other types later.'

Start Group: [CommodityAsian.model](#) [0..1]

'A group containing properties specific to Asian options.'

<effectiveDate> [AdjustableOrRelativeDate](#) </effectiveDate> [1]

'The effective date of the Commodity Option Transaction. Note that the Termination/Expiration Date should be specified in expirationDate within the CommodityAmericanExercise type or the CommodityEuropeanExercise type, as applicable.'

Start Choice [1]

<calculationPeriodsSchedule> [CommodityCalculationPeriodsSchedule](#) </calculationPeriodsSchedule> [1]

'A parametric representation of the Calculation Periods of the Commodity Option Transaction.'

<calculationPeriods> [AdjustableDates](#) </calculationPeriods> [1]

'An absolute representation of the Calculation Period start dates of the Commodity Option Transaction.'

End Choice

<pricingDates> [CommodityPricingDates](#) </pricingDates> [1]

'The dates on which the option will price.'

<averagingMethod> [AveragingMethodEnum](#) </averagingMethod> [0..1]

'The Method of Averaging if there is more than one Pricing Date.'

End Group: [CommodityAsian.model](#)

Start Choice [1]

Start Choice [1]

<notionalQuantitySchedule> [CommodityNotionalQuantitySchedule](#) </notionalQuantitySchedule> [1]

'Allows the documentation of a shaped notional trade where the notional changes over the life of the transaction.'

<notionalQuantity> [CommodityNotionalQuantity](#) </notionalQuantity> [1]

'The Notional Quantity.'

<settlementPeriodsNotionalQuantity> [CommoditySettlementPeriodsNotionalQuantity](#) </settlementPeriodsNotionalQuantity> [1..\*]

'For an electricity transaction, the Notional Quantity for a one or more groups of Settlement Periods to which the Notional Quantity is based. If the schedule differs for different groups of Settlement Periods, this element should be repeated.'

End Choice

<totalNotionalQuantity> [xsd:decimal](#) </totalNotionalQuantity> [0..1]

'The Total Notional Quantity.'

<quantityReference> [QuantityReference](#) </quantityReference> [1]

'A pointer style reference to a quantity defined on another leg.'

End Choice

<exercise> [CommodityExercise](#) </exercise> [1]

'The parameters for defining how the commodity option can be exercised and how it is settled.'

Start Choice [1]

<strikePricePerUnit> [NonNegativeMoney](#) </strikePricePerUnit> [1]

'The currency amount of the strike price per unit.'

```

    <strikePricePerUnitSchedule> CommodityStrikeSchedule </strikePricePerUnitSchedule> [1]
  End Choice
  <premium> CommodityPremium </premium> [1]
  'The option premium payable by the buyer to the seller.'

Start Group: CommodityContent.model [0..1]
  <commonPricing> xsd:boolean </commonPricing> [0..1]
  'Common pricing may be relevant for a Transaction that references more than one
  Commodity Reference Price. If Common Pricing is not specified as applicable, it will be
  deemed not to apply.'

  <marketDisruption> CommodityMarketDisruption </marketDisruption> [0..1]
  'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA
  2005 Commodity Definitions, as applicable.'

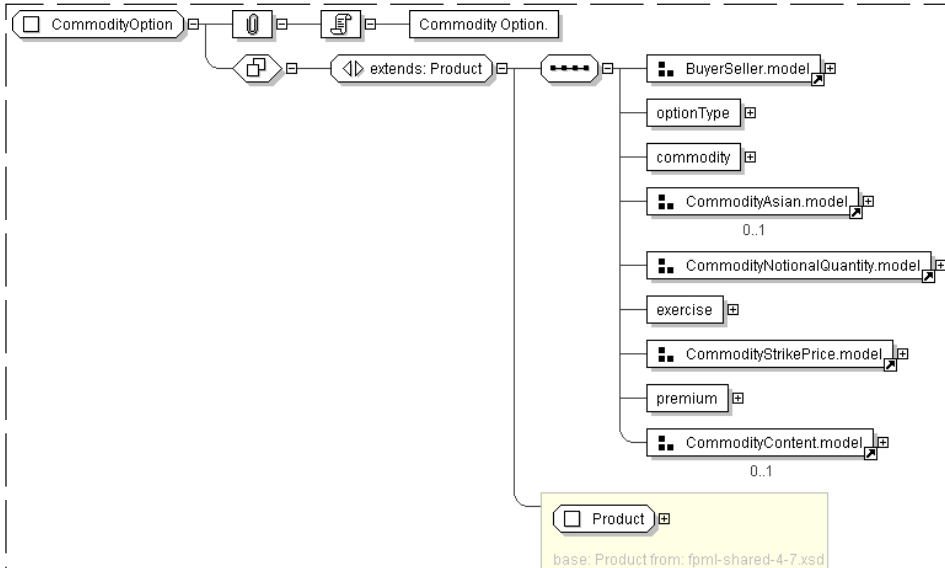
  <settlementDisruption> CommodityBullionSettlementDisruptionEnum </settlementDisruption> [0..1]
  'The consequences of Bullion Settlement Disruption Events.'

  <rounding> Rounding </rounding> [0..1]
  'Rounding direction and precision for amounts.'

End Group: CommodityContent.model
</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="CommodityOption">
  <xsd:complexContent>
    <xsd:extension base="Product" />
    <xsd:sequence>
      <xsd:group ref="BuyerSeller.model" />
      <xsd:element name="optionType" type="PutCallEnum" />
      <xsd:element name="commodity" type="Commodity" />
      <xsd:group ref="CommodityAsian.model" minOccurs="0"/>
      <xsd:group ref="CommodityNotionalQuantity.model" />
      <xsd:element name="exercise" type="CommodityExercise" />
      <xsd:group ref="CommodityStrikePrice.model" />
      <xsd:element name="premium" type="CommodityPremium" />
      <xsd:group ref="CommodityContent.model" minOccurs="0"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

Complex Type: **CommodityPayRelativeToEvent**

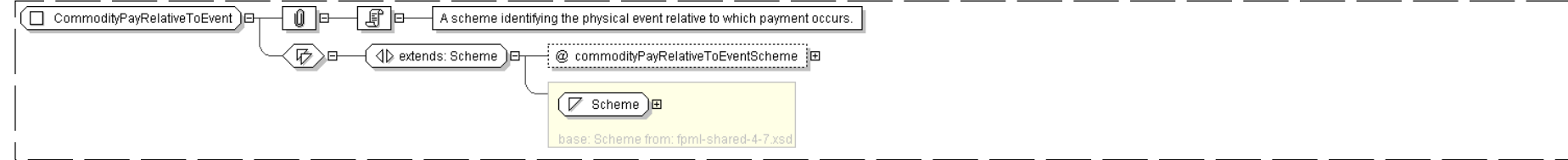
Super-types:	<a href="#">Scheme</a> < <b>CommodityPayRelativeToEvent</b> (by extension)
Sub-types:	None

Name	CommodityPayRelativeToEvent
Used by (from the same schema document)	Complex Type <a href="#">CommodityRelativePaymentDates</a>
Abstract	no
Documentation	A scheme identifying the physical event relative to which payment occurs.

XML Instance Representation

```
<...  
commodityPayRelativeToEventScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityPayRelativeToEvent">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="commodityPayRelativeToEventScheme" type=" xsd:anyURI " default="http://  
        www.fpml.org/coding-scheme/commodity-pay-relative-to-event"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

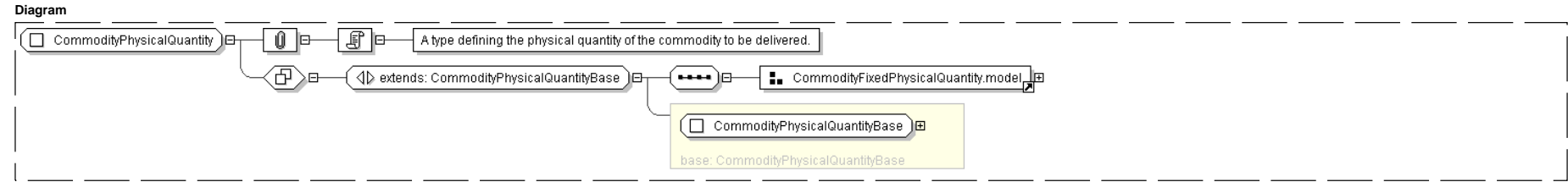
Complex Type: **CommodityPhysicalQuantity**

Super-types:	<a href="#">CommodityPhysicalQuantityBase</a> < <b>CommodityPhysicalQuantity</b> (by extension)
Sub-types:	None

Name	CommodityPhysicalQuantity
Used by (from the same schema document)	Complex Type <a href="#">CoalPhysicalLeg</a> , Complex Type <a href="#">OilPhysicalLeg</a>
Abstract	no
Documentation	A type defining the physical quantity of the commodity to be delivered.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  Start Choice [1]  
    <physicalQuantity> CommodityNotionalQuantity </physicalQuantity> [1]  
    'The Quantity per Delivery Period.'  
  
    <physicalQuantitySchedule> CommodityPhysicalQuantitySchedule </physicalQuantitySchedule> [1]  
    'Allows the documentation of a shaped quantity trade where the quantity changes over the  
    life of the transaction.'  
  
  End Choice  
  <totalPhysicalQuantity> UnitQuantity </totalPhysicalQuantity> [0..1]  
  'The Total Quantity of the commodity to be delivered.'  
</...>
```



Schema Component Representation

```
<xsd:complexType name="CommodityPhysicalQuantity">
  <xsd:complexContent>
    <xsd:extension base="CommodityPhysicalQuantityBase">
      <xsd:sequence>
        <xsd:group ref="CommodityFixedPhysicalQuantity.model" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityPhysicalQuantityBase**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>CommodityPhysicalQuantity (by extension)</li><li>ElectricityPhysicalQuantity (by extension)</li><li>GasPhysicalQuantity (by extension)</li></ul>

Name	CommodityPhysicalQuantityBase
Abstract	yes
Documentation	An abstract base class for physical quantity types.

XML Instance Representation

```
<...
id="xsd:ID [0..1]"/>
```



Schema Component Representation

```
<xsd:complexType name="CommodityPhysicalQuantityBase" abstract="true">
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityPhysicalQuantitySchedule**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>ElectricityPhysicalDeliveryQuantitySchedule (by extension)</li></ul>

Name	CommodityPhysicalQuantitySchedule
Used by (from the same schema document)	Model Group CommodityFixedPhysicalQuantity.model
Abstract	no
Documentation	The Quantity per Delivery Period. There must be a Quantity step specified for each Delivery Period, regardless of whether the Quantity changes or remains the same between periods.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
```

```
<quantityStep> CommodityNotionalQuantity </quantityStep> [1..*]

'The quantity per Calculation Period. There must be a quantity specified for each
Calculation Period, regardless of whether the quantity changes or remains the same
between periods.'
```

Start [Choice](#) [1]

```
<deliveryPeriodsReference> CalculationPeriodsReference </deliveryPeriodsReference> [1]

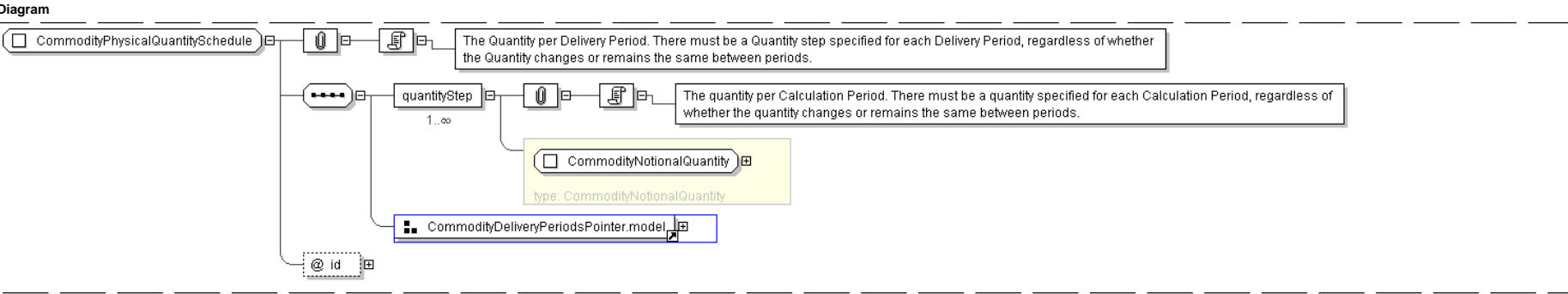
'A pointer style reference to the Delivery Periods defined elsewhere.'
```

```
<deliveryPeriodsScheduleReference> CalculationPeriodsScheduleReference
</deliveryPeriodsScheduleReference> [1]

'A pointer style reference to the Calculation Periods Schedule defined elsewhere.'
```

End Choice

```
</...>
```



Schema Component Representation

```
<xsd:complexType name="CommodityPhysicalQuantitySchedule">
  <xsd:sequence>
    <xsd:element name="quantityStep" type=" CommodityNotionalQuantity " maxOccurs="unbounded" />
    <xsd:group ref=" CommodityDeliveryPeriodsPointer.model " />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityPipeline**

Super-types:	<a href="#">Scheme</a> < <b>CommodityPipeline</b> (by extension)
Sub-types:	None

Name	CommodityPipeline
Used by (from the same schema document)	Complex Type <a href="#">OilPipelineDelivery</a>
Abstract	no
Documentation	The pipeline through which the physical commodity will be delivered.

XML Instance Representation

```
<...
  pipelineScheme=" xsd:anyURI [0..1]">
    Scheme
  </...>
```





Schema Component Representation

```
<xsd:complexType name="CommodityPipeline">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="pipelineScheme" type="xsd:anyURI" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: CommodityPipelineCycle

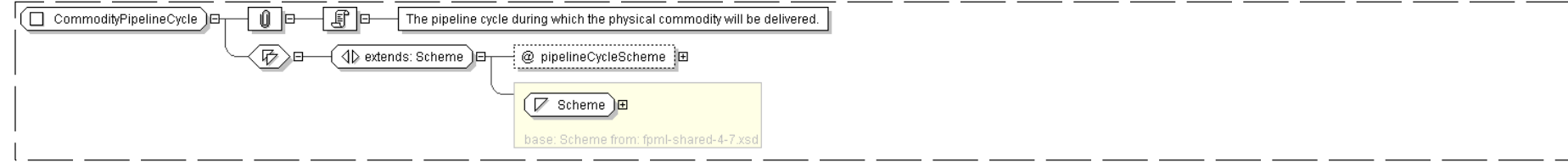
Super-types:	<a href="#">Scheme</a> < <b>CommodityPipelineCycle</b> (by extension)
Sub-types:	None

Name	CommodityPipelineCycle
Used by (from the same schema document)	Complex Type <a href="#">OilPipelineDelivery</a>
Abstract	no
Documentation	The pipeline cycle during which the physical commodity will be delivered.

XML Instance Representation

```
<...
  pipelineCycleScheme="xsd:anyURI [1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityPipelineCycle">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="pipelineCycleScheme" type="xsd:anyURI" use="required"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: CommodityPremium

Super-types:	<a href="#">NonNegativePayment</a> < <b>CommodityPremium</b> (by extension)
Sub-types:	None

Name	CommodityPremium
Used by (from the same schema document)	Complex Type <a href="#">CommodityOption</a>
Abstract	no
Documentation	The commodity option premium payable by the buyer to the seller.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
</...>
```

'A reference to the party that receives the payments corresponding to this structure.'

<paymentDate> [AdjustableOrRelativeDate](#) </paymentDate> [1]

'The payment date, which can be expressed as either an adjustable or relative date.'

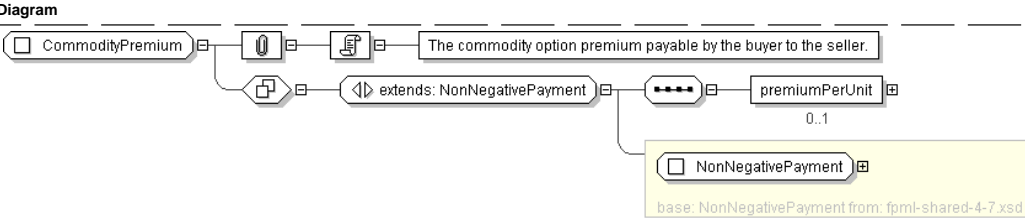
<paymentAmount> [NonNegativeMoney](#) </paymentAmount> [1]

'Non negative payment amount.'

<premiumPerUnit> [NonNegativeMoney](#) </premiumPerUnit> [0..1]

'The currency amount of premium to be paid per Unit of the Total Notional Quantity.'

</...>



Schema Component Representation

```
<xsd:complexType name="CommodityPremium">
  <xsd:complexContent>
    <xsd:extension base="NonNegativePayment">
      <xsd:sequence>
        <xsd:element name="premiumPerUnit" type="NonNegativeMoney" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityPricingDates**

Super-types:	None
Sub-types:	None

Name	CommodityPricingDates
Used by (from the same schema document)	Complex Type <a href="#">FloatingLegCalculation</a> , Model Group <a href="#">CommodityAsian.model</a>
Abstract	no
Documentation	The dates on which prices are observed for the underlying.

XML Instance Representation

<...  
id=" [xsd:ID](#) [0..1]">  
Start [Choice](#) [1]  
  <calculationPeriodsReference> [CalculationPeriodsReference](#) </calculationPeriodsReference> [1]  
  'A pointer style reference to the Calculation Periods defined on another leg.'  
  
  <calculationPeriodsScheduleReference> [CalculationPeriodsScheduleReference](#)  
  </calculationPeriodsScheduleReference> [1]  
  'A pointer style reference to the Calculation Periods Schedule defined on another leg.'  
  
End Choice  
Start [Choice](#) [1]  
  <lag> [Lag](#) </lag> [0..1]  
  'The pricing period per calculation period if the pricing days do not wholly fall within the respective calculation period.'  
  
Start [Choice](#) [1]  
  <dayType> [CommodityDayTypeEnum](#) </dayType> [1]  
  'The type of day on which pricing occurs.'

Start [Choice](#) [1]

<dayDistribution> [CommodityFrequencyType](#) </dayDistribution> [1]

'The method by which the pricing days are distributed across the pricing period.'

<dayCount> [xsd:positiveInteger](#) </dayCount> [0..1]

'The number of days over which pricing should take place.'

<dayOfWeek> [DayOfWeekEnum](#) </dayOfWeek> [1..7]

'The day(s) of the week on which pricing will take place during the pricing period.'

<dayNumber> [xsd:integer](#) </dayNumber> [0..1]

'The occurrence of the dayOfWeek within the pricing period on which pricing will take place, e.g. the 3rd Friday within each Calculation Period. If omitted, every dayOfWeek will be a pricing day.'

End Choice

<businessCalendar> [CommodityBusinessCalendar](#) </businessCalendar> [0..1]

'Identifies a commodity business day calendar from which the pricing dates will be generated.'

<settlementPeriods> [SettlementPeriods](#) </settlementPeriods> [1..\*]

<settlementPeriodsReference> [SettlementPeriodsReference](#) </settlementPeriodsReference> [1..\*]

End Choice

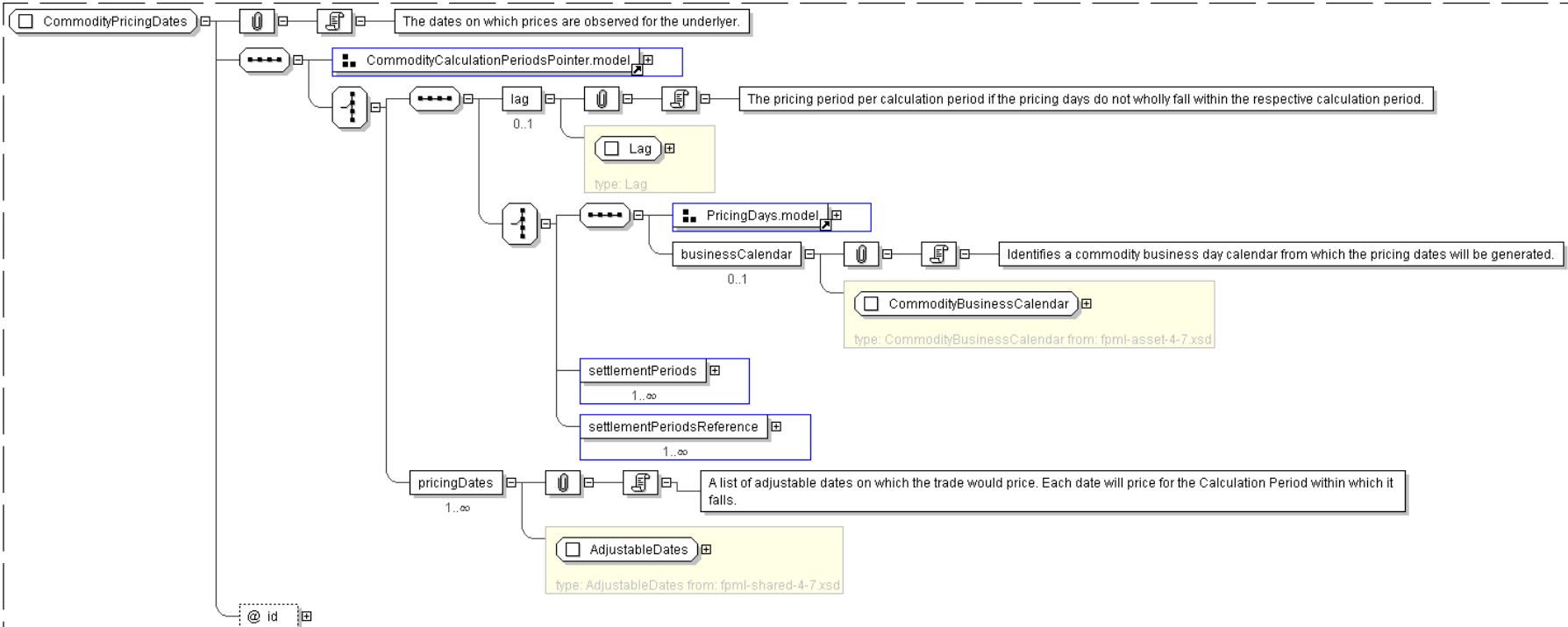
<pricingDates> [AdjustableDates](#) </pricingDates> [1..\*]

'A list of adjustable dates on which the trade would price. Each date will price for the Calculation Period within which it falls.'

End Choice

</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="CommodityPricingDates">
  <xsd:sequence>
    <xsd:group ref="CommodityCalculationPeriodsPointer.model"/>
    <xsd:choice>
      <xsd:sequence>
```

```
<xsd:element name="lag" type=" Lag " minOccurs="0"/>
<xsd:choice>
  <xsd:sequence>
    <xsd:group ref=" PricingDays.model "/>
    <xsd:element name="businessCalendar" type=" CommodityBusinessCalendar " minOccurs="0"/>
  </xsd:sequence>
  <xsd:element name="settlementPeriods" type=" SettlementPeriods " maxOccurs="unbounded"/>
  <xsd:element name="settlementPeriodsReference" type=" SettlementPeriodsReference " maxOccurs="unbounded"/>
</xsd:choice>
</xsd:sequence>
<xsd:element name="pricingDates" type=" AdjustableDates " maxOccurs="unbounded"/>
</xsd:choice>
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

[top](#)

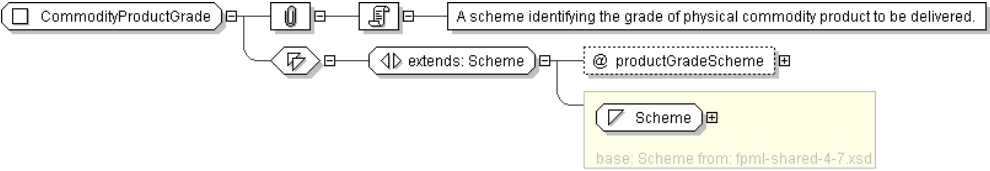
Complex Type: **CommodityProductGrade**

Super-types:	<a href="#">Scheme</a> < <b>CommodityProductGrade</b> (by extension)
Sub-types:	None
Name	CommodityProductGrade
Used by (from the same schema document)	Complex Type <a href="#">OilProduct</a>
Abstract	no
Documentation	A scheme identifying the grade of physical commodity product to be delivered.

XML Instance Representation

```
<...
productGradeScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityProductGrade">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="productGradeScheme" type=" xsd:anyURI "/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

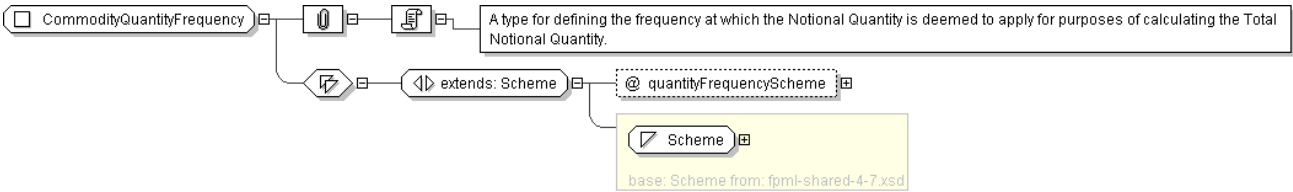
Complex Type: **CommodityQuantityFrequency**

Super-types:	<a href="#">Scheme</a> < <b>CommodityQuantityFrequency</b> (by extension)
Sub-types:	None
Name	CommodityQuantityFrequency
Used by (from the same schema document)	Complex Type <a href="#">CommodityNotionalQuantity</a>
Abstract	no
Documentation	A type for defining the frequency at which the Notional Quantity is deemed to apply for purposes of calculating the Total Notional Quantity.

XML Instance Representation

```
<...  
  quantityFrequencyScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityQuantityFrequency">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="quantityFrequencyScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/commodity-quantity-frequency"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **CommodityRelativePaymentDates**

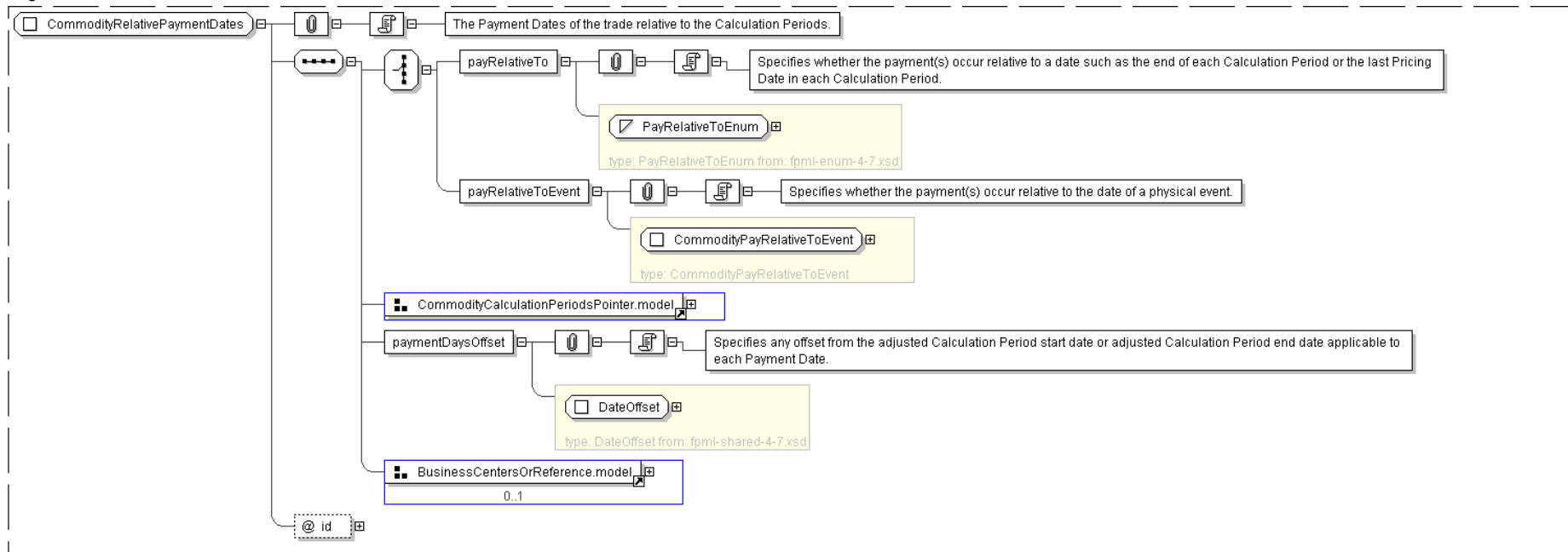
Super-types:	None
Sub-types:	None
Name	CommodityRelativePaymentDates
Used by (from the same schema document)	Model Group <a href="#">CommodityPaymentDates.model</a>
Abstract	no
Documentation	The Payment Dates of the trade relative to the Calculation Periods.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  Start Choice [1]  
    <payRelativeTo> PayRelativeToEnum </payRelativeTo> [1]  
    'Specifies whether the payment(s) occur relative to a date such as the end of each  
    Calculation Period or the last Pricing Date in each Calculation Period.'  
  
    <payRelativeToEvent> CommodityPayRelativeToEvent </payRelativeToEvent> [1]  
    'Specifies whether the payment(s) occur relative to the date of a physical event.'  
  
  End Choice  
  Start Choice [1]  
    <calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]  
    'A pointer style reference to the Calculation Periods defined on another leg.'  
  
    <calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference  
    </calculationPeriodsScheduleReference> [1]  
    'A pointer style reference to the Calculation Periods Schedule defined on another leg.'  
  
  End Choice  
  <paymentDaysOffset> DateOffset </paymentDaysOffset> [1]  
  'Specifies any offset from the adjusted Calculation Period start date or adjusted  
  Calculation Period end date applicable to each Payment Date.'  
  
  Start Group: BusinessCentersOrReference.model [0..1]  
  Start Choice [1]  
    <businessCentersReference> BusinessCentersReference </businessCentersReference> [1]  
    'A pointer style reference to a set of financial business centers defined elsewhere in  
    the document. This set of business centers is used to determine whether a particular day is  
    a business day or not.'
```

```
<businessCenters> BusinessCenters </businessCenters> [1]
End Choice
End Group: BusinessCentersOrReference.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityRelativePaymentDates">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="payRelativeTo" type="PayRelativeToEnum" />
      <xsd:element name="payRelativeToEvent" type="CommodityPayRelativeToEvent" />
    </xsd:choice>
    <xsd:group ref="CommodityCalculationPeriodsPointer.model" />
    <xsd:element name="paymentDaysOffset" type="DateOffset" />
    <xsd:group ref="BusinessCentersOrReference.model" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **CommoditySettlementPeriodsNotionalQuantity**

Super-types:	<a href="#">CommodityNotionalQuantity</a> < <b>CommoditySettlementPeriodsNotionalQuantity</b> (by extension)
Sub-types:	None

Name	CommoditySettlementPeriodsNotionalQuantity
Used by (from the same schema document)	Model Group <a href="#">CommodityNotionalQuantity.model</a>
Abstract	no
Documentation	The notional quantity of electricity that applies to one or more groups of Settlement Periods.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <quantityUnit> QuantityUnit </quantityUnit> [1]
  'Quantity Unit is the unit of measure applicable for the quantity on the Transaction.'
```

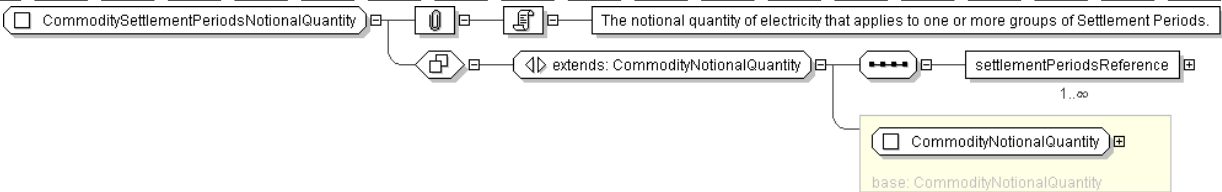
```
<quantityFrequency> CommodityQuantityFrequency </quantityFrequency> [1]

'The frequency at which the Notional Quantity is deemed to apply for purposes of
calculating the Total Notional Quantity.'xsd:decimal </quantity> [1]

'Amount of commodity per quantity frequency.'SettlementPeriodsReference </settlementPeriodsReference> [1..*]

'The range(s) of Settlement Periods to which the Notional Quantity applies.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommoditySettlementPeriodsNotionalQuantity">
  <xsd:complexContent>
    <xsd:extension base="CommodityNotionalQuantity">
      <xsd:sequence>
        <xsd:element name="settlementPeriodsReference" type="SettlementPeriodsReference"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CommoditySettlementPeriodsNotionalQuantitySchedule**

Super-types:	None
Sub-types:	None
Name	CommoditySettlementPeriodsNotionalQuantitySchedule
Used by (from the same schema document)	Complex Type <a href="#">CommodityNotionalQuantitySchedule</a>
Abstract	no
Documentation	The notional quantity schedule of electricity that applies to one or more groups of Settlement Periods.

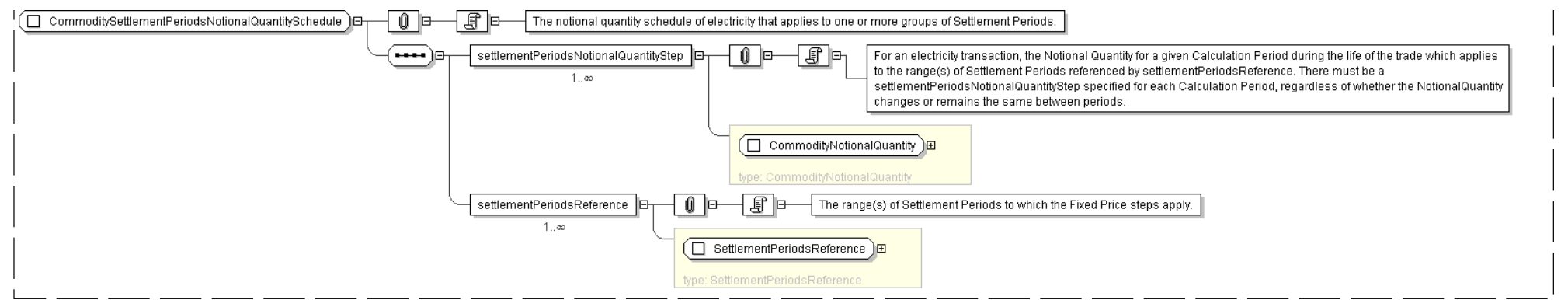
XML Instance Representation

```
<...>
  <settlementPeriodsNotionalQuantityStep> CommodityNotionalQuantity
</settlementPeriodsNotionalQuantityStep> [1..*]

'For an electricity transaction, the Notional Quantity for a given Calculation Period
during the life of the trade which applies to the range(s) of Settlement Periods referenced
by settlementPeriodsReference. There must be a settlementPeriodsNotionalQuantityStep
specified for each Calculation Period, regardless of whether the NotionalQuantity changes
or remains the same between periods.'SettlementPeriodsReference </settlementPeriodsReference> [1..*]

'The range(s) of Settlement Periods to which the Fixed Price steps apply.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommoditySettlementPeriodsNotionalQuantitySchedule">
  <xsd:sequence>
    <xsd:element name="settlementPeriodsNotionalQuantityStep" type="CommodityNotionalQuantity"
      " maxOccurs="unbounded"/>
    <xsd:element name="settlementPeriodsReference" type="SettlementPeriodsReference"
      " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CommoditySettlementPeriodsPriceSchedule**

Super-types:	None
Sub-types:	None
Name	CommoditySettlementPeriodsPriceSchedule
Used by (from the same schema document)	Complex Type <a href="#">CommodityFixedPriceSchedule</a>
Abstract	no
Documentation	The fixed price schedule for electricity that applies to one or more groups of Settlement Periods.

XML Instance Representation

```
<...>
  <settlementPeriodsPriceStep> FixedPrice </settlementPeriodsPriceStep> [1..*]
  'For an electricity transaction, the Fixed Price for a given Calculation Period during the
  life of the trade which applies to the range(s) of Settlement Periods referenced
  by settlementPeriods Reference. There must be a Fixed Price step specified for each
  Calculation Period, regardless of whether the Fixed Price changes or remains the same
  between periods.'

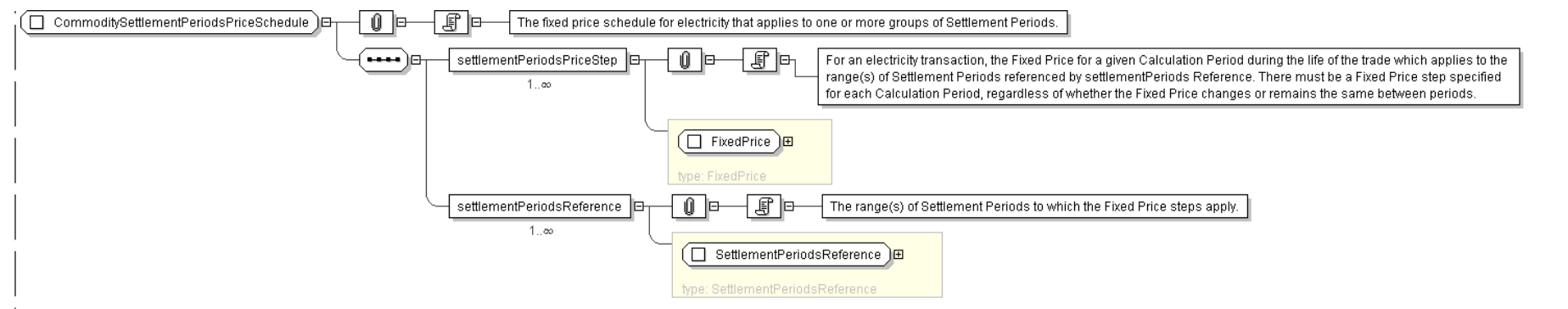
  <settlementPeriodsReference> SettlementPeriodsReference </settlementPeriodsReference> [1..*]
  'The range(s) of Settlement Periods to which the Fixed Price steps apply.'

</...>
```

Diagram







Schema Component Representation

```
<xsd:complexType name="CommoditySettlementPeriodsPriceSchedule">
  <xsd:sequence>
    <xsd:element name="settlementPeriodsPriceStep" type=" FixedPrice " maxOccurs="unbounded"/>
    <xsd:element name="settlementPeriodsReference" type=" SettlementPeriodsReference " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **CommoditySpreadSchedule**

Super-types:	None
Sub-types:	None
Name	CommoditySpreadSchedule
Used by (from the same schema document)	Complex Type <a href="#">FloatingLegCalculation</a>
Abstract	no
Documentation	The Spread per Calculation Period. There must be a Spread specified for each Calculation Period, regardless of whether the Spread changes or remains the same between periods.

XML Instance Representation

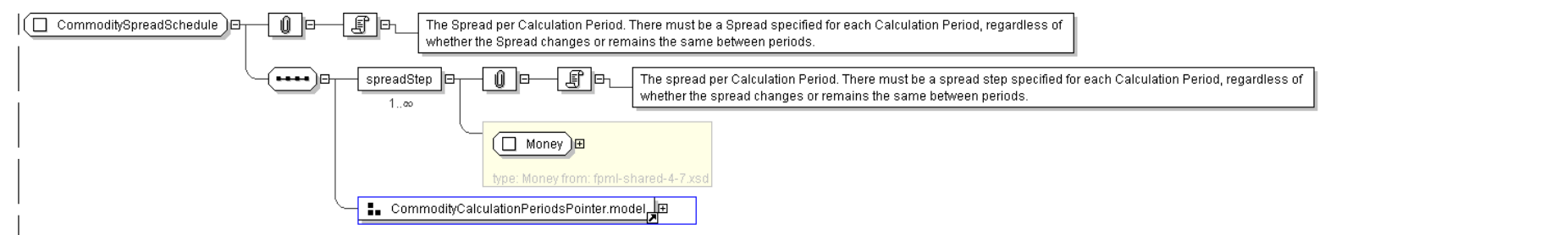
```
<...>
  <spreadStep Money /> </spreadStep> [1..*]
  'The spread per Calculation Period. There must be a spread step specified for each Calculation Period, regardless of whether the spread changes or remains the same between periods.'

  Start Choice [1]
    <calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
    'A pointer style reference to the Calculation Periods defined on another leg.'

    <calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference </calculationPeriodsScheduleReference> [1]
    'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommoditySpreadSchedule">
  <xsd:sequence>
    <xsd:element name="spreadStep" type="Money" maxOccurs="unbounded"/>
    <xsd:group ref="CommodityCalculationPeriodsPointer.model"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **CommodityStrikeSchedule**

Super-types:	None
Sub-types:	None
Name	CommodityStrikeSchedule
Used by (from the same schema document)	Model Group <a href="#">CommodityStrikePrice.model</a>
Abstract	no
Documentation	The Strike Price per Unit per Calculation Period. There must be a Strike Price per Unit step specified for each Calculation Period, regardless of whether the Strike changes or remains the same between periods.

XML Instance Representation

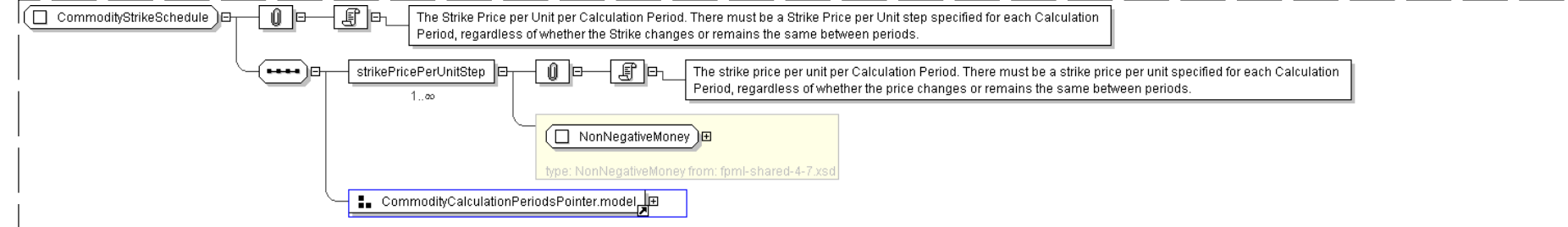
```
<...>
  <strikePricePerUnitStep> NonNegativeMoney </strikePricePerUnitStep> [1..*]
  'The strike price per unit per Calculation Period. There must be a strike price per unit specified for each Calculation Period, regardless of whether the price changes or remains the same between periods.'

  Start Choice [1]
    <calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
    'A pointer style reference to the Calculation Periods defined on another leg.'

    <calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
    </calculationPeriodsScheduleReference> [1]
    'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CommodityStrikeSchedule">
```

Complex Type: CommoditySwap

Super-types:	<a href="#">Product</a> < <b>CommoditySwap</b> (by extension)
Sub-types:	None
Name	CommoditySwap
Used by (from the same schema document)	Element <a href="#">commoditySwap</a>
Abstract	no
Documentation	Commodity Swap.

XML Instance Representation

<... id=" xsd:ID [0..1]*" <productType> <a href="#">ProductType</a> </productType> [0..*]  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'  <productId> <a href="#">ProductId</a> </productId> [0..*]  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'  <effectiveDate> <a href="#">AdjustableOrRelativeDate</a> </effectiveDate> [1]  'Specifies the effective date of this leg of the swap. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically point to the effective date of the other leg of the swap.'  <terminationDate> <a href="#">AdjustableOrRelativeDate</a> </terminationDate> [1]  'Specifies the termination date of this leg of the swap. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically point to the termination date of the other leg of the swap.'  <settlementCurrency> <a href="#">IdentifiedCurrency</a> </settlementCurrency> [1]  'The currency into which the Commodity Swap Transaction will settle. If this is not the same as the currency in which the Commodity Reference Price is quoted on a given floating leg of the Commodity Swap Transaction, then an FX rate should also be specified for that leg.'	
Start <a href="#">Choice</a> [1..*] <fixedLeg> <a href="#">FixedPriceLeg</a> </fixedLeg> [1] 'Fixed Price Leg.'	
<floatingLeg> <a href="#">FloatingPriceLeg</a> </floatingLeg> [1] 'Floating Price leg.'	
<coalPhysicalLeg> <a href="#">CoalPhysicalLeg</a> </coalPhysicalLeg> [1] 'Physically settled coal leg.'	
<electricityPhysicalLeg> <a href="#">ElectricityPhysicalLeg</a> </electricityPhysicalLeg> [1] 'Physically settled electricity leg.'	
<gasPhysicalLeg> <a href="#">GasPhysicalLeg</a> </gasPhysicalLeg> [1] 'Physically settled natural gas leg.'	
<oilPhysicalLeg> <a href="#">OilPhysicalLeg</a> </oilPhysicalLeg> [1] 'Physically settled oil or refined products leg.'	
<additionalCommoditySwapLeg> ... </additionalCommoditySwapLeg> [1]	
End Choice Start Group: <a href="#">CommodityContent.model</a> [0..1] <commonPricing> xsd:boolean </commonPricing> [0..1] 'Common pricing may be relevant for a Transaction that references more than one	

Commodity Reference Price. If Common Pricing is not specified as applicable, it will be deemed not to apply.'

<marketDisruption> CommodityMarketDisruption </marketDisruption> [0..1]

'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA 2005 Commodity Definitions, as applicable.'

<settlementDisruption> CommodityBullionSettlementDisruptionEnum </settlementDisruption> [0..1]

'The consequences of Bullion Settlement Disruption Events.'

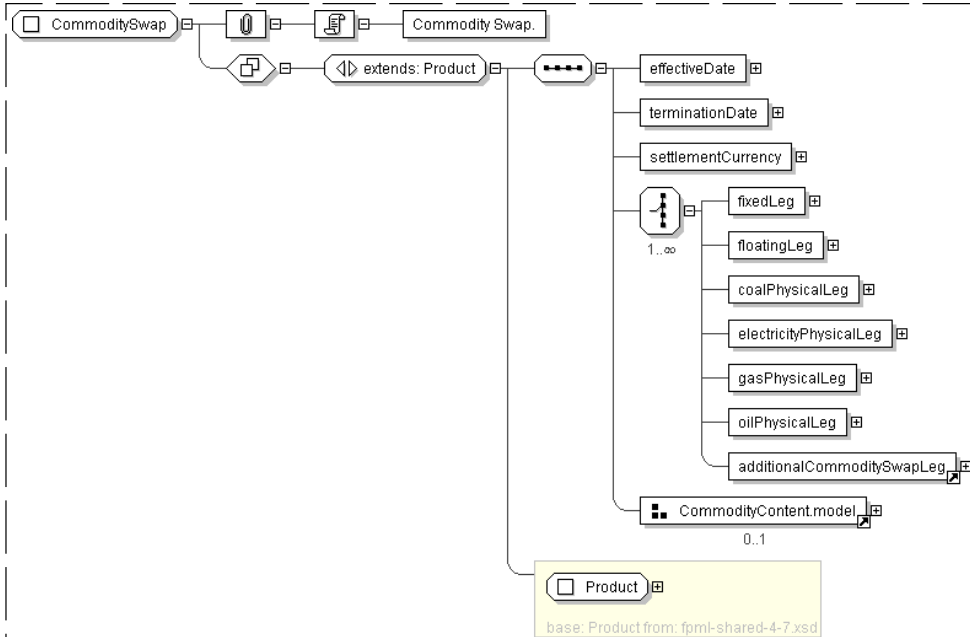
<rounding> Rounding </rounding> [0..1]

'Rounding direction and precision for amounts.'

End Group: CommodityContent.model

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="CommoditySwap">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:element name="effectiveDate" type=" AdjustableOrRelativeDate " />
        <xsd:element name="terminationDate" type=" AdjustableOrRelativeDate " />
        <xsd:element name="settlementCurrency" type=" IdentifiedCurrency " />
        <xsd:choice maxOccurs="unbounded">
          <xsd:element name="fixedLeg" type=" FixedPriceLeg " />
          <xsd:element name="floatingLeg" type=" FloatingPriceLeg " />
          <xsd:element name="coalPhysicalLeg" type=" CoalPhysicalLeg " />
          <xsd:element name="electricityPhysicalLeg" type=" ElectricityPhysicalLeg " />
          <xsd:element name="gasPhysicalLeg" type=" GasPhysicalLeg " />
          <xsd:element name="oilPhysicalLeg" type=" OilPhysicalLeg " />
          <xsd:element ref=" additionalCommoditySwapLeg " />
        </xsd:choice>
        <xsd:group ref=" CommodityContent.model " minOccurs="0" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

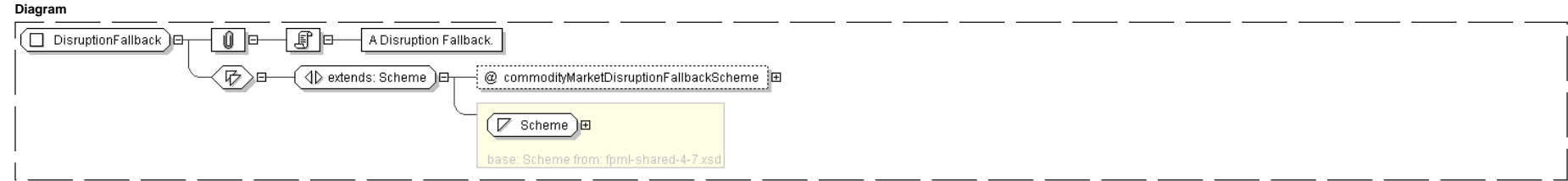
Complex Type: **DisruptionFallback**

Super-types:	<a href="#">Scheme</a> < <b>DisruptionFallback</b> (by extension)
Sub-types:	None

Name	DisruptionFallback
Used by (from the same schema document)	Complex Type <a href="#">SequencedDisruptionFallback</a>
Abstract	no
Documentation	A Disruption Fallback.

XML Instance Representation

```
<...  
commodityMarketDisruptionFallbackScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```



Schema Component Representation

```
<xsd:complexType name="DisruptionFallback">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="commodityMarketDisruptionFallbackScheme" type=" xsd:anyURI  
        " default="http://www.fpml.org/coding-scheme/commodity-market-disruption-fallback"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **ElectricityDelivery**

Super-types:	None
Sub-types:	None

Name	ElectricityDelivery
Used by (from the same schema document)	Complex Type <a href="#">ElectricityPhysicalLeg</a>
Abstract	no
Documentation	The physical delivery conditions for electricity.

XML Instance Representation

```
<...>  
Start Choice [1]  
  <deliveryPoint> ElectricityDeliveryPoint </deliveryPoint> [1]  
    'The point at which delivery of the electricity will occur.'  
  
  <deliveryType> [0..1]  
    'Indicates the under what conditions the Parties\' delivery obligations apply.'  
  
Start Choice [1]  
  <firm> ElectricityDeliveryFirm </firm> [1]  
    'Indicates under what condititions the Parties\' delivery obligations apply.'  
  
  <nonFirm> xsd:boolean </nonFirm> [1]  
    'If present and set to true, indicates that delivery or receipt of the electricity may  
    be interrupted for any reason or for no reason, without liability on the part of either  
    Party. This element should never have a value of false.'
```

```

<systemFirm> ElectricityDeliverySystemFirm </systemFirm> [1]
'Indicates that the electricity is intended to be supplied from the owned or
controlled generation or pre-existing purchased power assets of the system specified.'

<unitFirm> ElectricityDeliveryUnitFirm </unitFirm> [1]
'Indicates that the electricity is intended to be supplied from a generation asset which
can optionally be specified.'

End Choice
</deliveryType>
<transmissionContingency> ElectricityTransmissionContingency </transmissionContingency> [0..1]
'Indicates that the performance of the buyer or seller shall be excused (under the
conditions specified) if transmission of the electricity is unavailable or interrupted.'

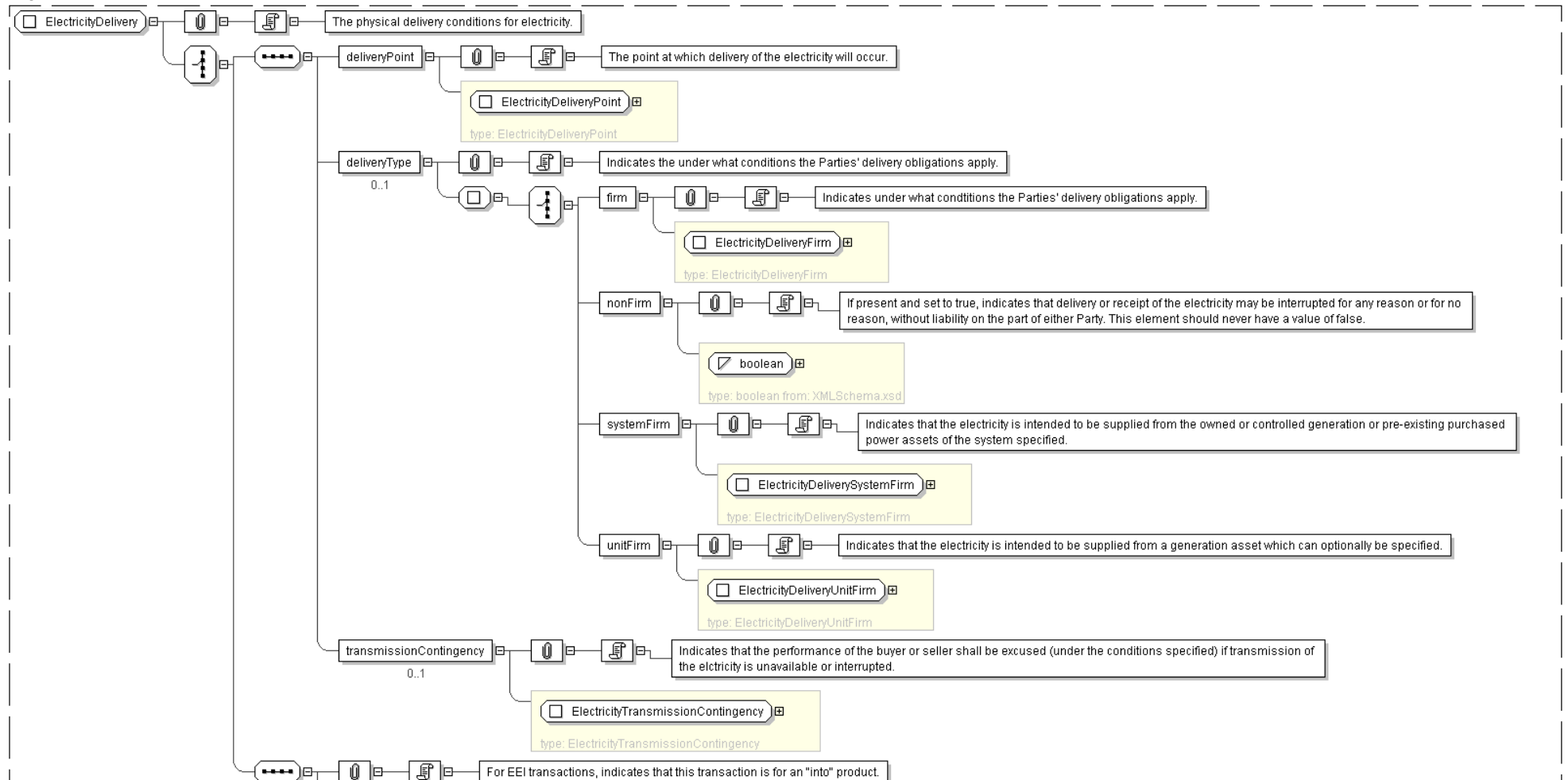
<deliveryZone> CommodityDeliveryPoint </deliveryZone> [1]
'The zone covering potential delivery points for the electricity.'

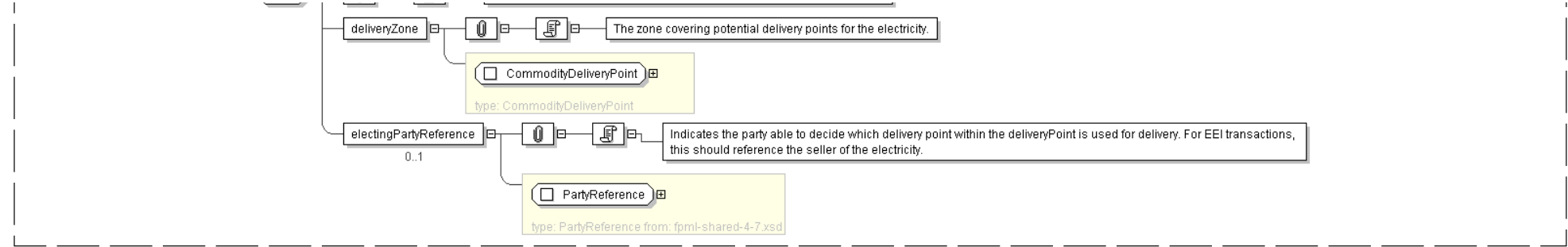
<electingPartyReference> PartyReference </electingPartyReference> [0..1]
'Indicates the party able to decide which delivery point within the deliveryPoint is used
for delivery. For EEI transactions, this should reference the seller of the electricity.'

End Choice
</...>

```

## Diagram





Schema Component Representation

```
<xsd:complexType name="ElectricityDelivery">
  <xsd:choice>
    <xsd:sequence>
      <xsd:element name="deliveryPoint" type=" ElectricityDeliveryPoint " />
      <xsd:element name="deliveryType" minOccurs="0">
        <xsd:complexType>
          <xsd:choice>
            <xsd:element name="firm" type=" ElectricityDeliveryFirm " />
            <xsd:element name="nonFirm" type=" xsd:boolean " />
            <xsd:element name="systemFirm" type=" ElectricityDeliverySystemFirm " />
            <xsd:element name="unitFirm" type=" ElectricityDeliveryUnitFirm " />
          </xsd:choice>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="transmissionContingency" type=" ElectricityTransmissionContingency " minOccurs="0" />
    </xsd:sequence>
    <xsd:sequence>
      <xsd:element name="deliveryZone" type=" CommodityDeliveryPoint " />
      <xsd:element name="electingPartyReference" type=" PartyReference " minOccurs="0" />
    </xsd:sequence>
  </xsd:choice>
</xsd:complexType>
```

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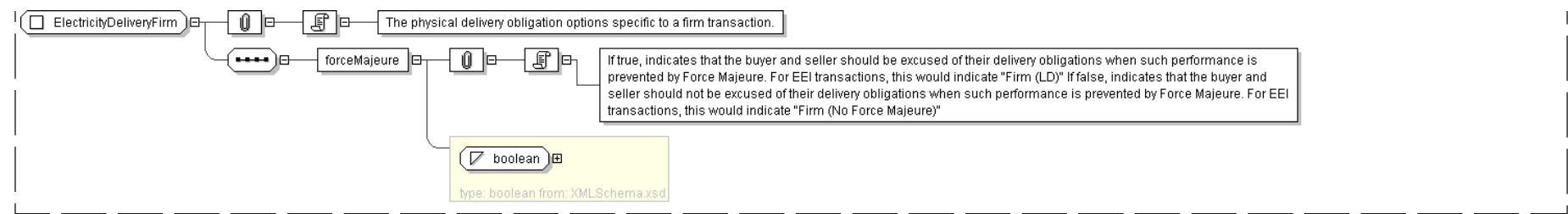
Complex Type: ElectricityDeliveryFirm

Super-types:	None
Sub-types:	None
Name	ElectricityDeliveryFirm
Used by (from the same schema document)	Complex Type <a href="#">ElectricityDelivery</a>
Abstract	no
Documentation	The physical delivery obligation options specific to a firm transaction.

XML Instance Representation

```
<...>
<forceMajeure> xsd:boolean </forceMajeure> [1]
'If true, indicates that the buyer and seller should be excused of their delivery obligations when such performance is prevented by Force Majeure. For EEI transactions, this would indicate \"Firm (LD)\" If false, indicates that the buyer and seller should not be excused of their delivery obligations when such performance is prevented by Force Majeure. For EEI transactions, this would indicate \"Firm (No Force Majeure)\"'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityDeliveryFirm">
  <xsd:sequence>
    <xsd:element name="forceMajeure" type="xsd:boolean" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: ElectricityDeliveryPeriods

Super-types:	CommodityDeliveryPeriods - ElectricityDeliveryPeriods (by extension)
Sub-types:	None
Name	ElectricityDeliveryPeriods
Abstract	no
Documentation	The different options for specifying the Delivery Periods for a physically settled electricity trade.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
Start Choice [1]
  <periods> AdjustableDates </periods> [1]
  'The Delivery Periods for this leg of the swap. This type is only intended to be used if
  the Delivery Periods differ from the Calculation Periods on the fixed or floating leg.
  If DeliveryPeriods mirror another leg, then the calculationPeriodsReference element should
  be used to point to the Calculation Periods on that leg - or
  the calculationPeriodsScheduleReference can be used to point to the Calculation
  Periods Schedule for that leg.'

  <periodsSchedule> CommodityCalculationPeriodsSchedule </periodsSchedule> [1]
  'The Delivery Periods for this leg of the swap. This type is only intended to be used if
  the Delivery Periods differ from the Calculation Periods on the fixed or floating leg.
  If DeliveryPeriods mirror another leg, then the calculationPeriodsReference element should
  be used to point to the Calculation Periods on that leg - or
  the calculationPeriodsScheduleReference can be used to point to the Calculation
  Periods Schedule for that leg.'

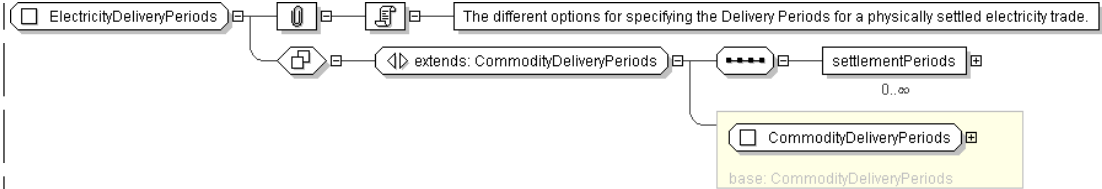
Start Choice [1]
  <calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
  'A pointer style reference to the Calculation Periods defined on another leg.'

  <calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
  </calculationPeriodsScheduleReference> [1]
  'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

End Choice
End Choice
<settlementPeriods> SettlementPeriods </settlementPeriods> [0..*]
  'The periods within the Delivery Periods during which the electricity will be delivered.'
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="ElectricityDeliveryPeriods">
  <xsd:complexContent>
    <xsd:extension base="CommodityDeliveryPeriods" >
      <xsd:sequence>
        <xsd:element name="settlementPeriods" type="SettlementPeriods"
          minOccurs="0" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: ElectricityDeliveryPoint

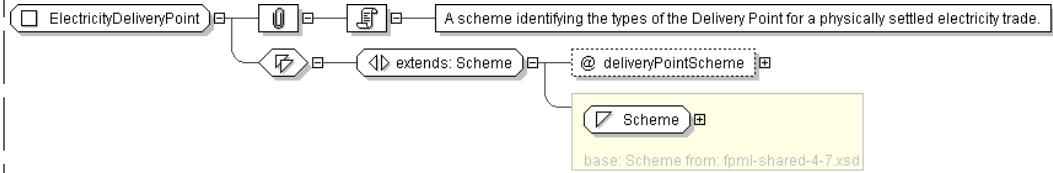
Super-types:	<a href="#">Scheme</a> < <b>ElectricityDeliveryPoint</b> (by extension)
Sub-types:	None

Name	ElectricityDeliveryPoint
Used by (from the same schema document)	Complex Type <a href="#">ElectricityDelivery</a>
Abstract	no
Documentation	A scheme identifying the types of the Delivery Point for a physically settled electricity trade.

XML Instance Representation

```
<...
deliveryPointScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityDeliveryPoint">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="deliveryPointScheme" type="xsd:anyURI" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: ElectricityDeliverySystemFirm

Super-types:	None
Sub-types:	None

Name	ElectricityDeliverySystemFirm
------	-------------------------------

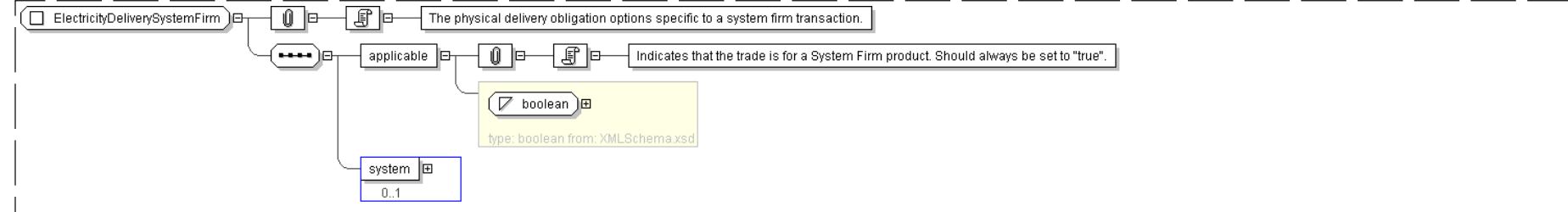
Used by (from the same schema document)	Complex Type <a href="#">ElectricityDelivery</a>
Abstract	no
Documentation	The physical delivery obligation options specific to a system firm transaction.

XML Instance Representation

```
<...>
  <applicable> xsd:boolean </applicable> [1]
  'Indicates that the trade is for a System Firm product. Should always be set to \"true\".'

  <system> CommodityDeliveryPoint </system> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityDeliverySystemFirm">
  <xsd:sequence>
    <xsd:element name="applicable" type="xsd:boolean" />
    <xsd:element name="system" type="CommodityDeliveryPoint" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ElectricityDeliveryUnitFirm

Super-types:	None
Sub-types:	None

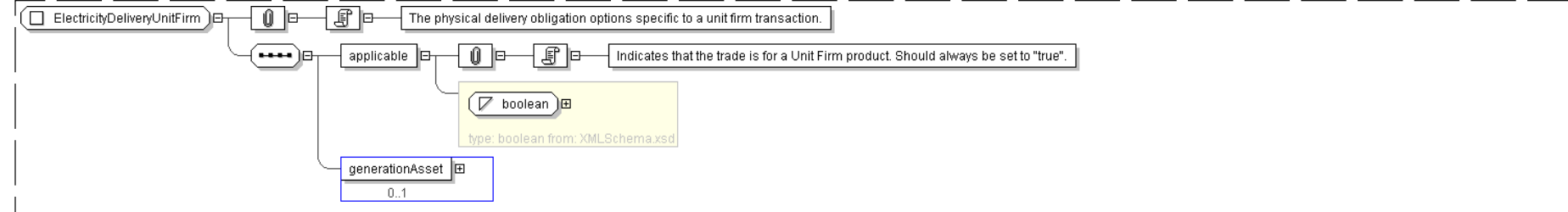
Name	ElectricityDeliveryUnitFirm
Used by (from the same schema document)	Complex Type <a href="#">ElectricityDelivery</a>
Abstract	no
Documentation	The physical delivery obligation options specific to a unit firm transaction.

XML Instance Representation

```
<...>
  <applicable> xsd:boolean </applicable> [1]
  'Indicates that the trade is for a Unit Firm product. Should always be set to \"true\".'

  <generationAsset> CommodityDeliveryPoint </generationAsset> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityDeliveryUnitFirm">
  <xsd:sequence>
    <xsd:element name="applicable" type="xsd:boolean" />
    <xsd:element name="generationAsset" type="CommodityDeliveryPoint" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ElectricityPhysicalDeliveryQuantity

Super-types:	CommodityNotionalQuantity < ElectricityPhysicalDeliveryQuantity (by extension)
Sub-types:	None
Name	ElectricityPhysicalDeliveryQuantity
Used by (from the same schema document)	Complex Type ElectricityPhysicalQuantity
Abstract	no
Documentation	A type defining the physical quantity of the electricity to be delivered.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <quantityUnit> QuantityUnit </quantityUnit> [1]
  'Quantity Unit is the unit of measure applicable for the quantity on the Transaction.'

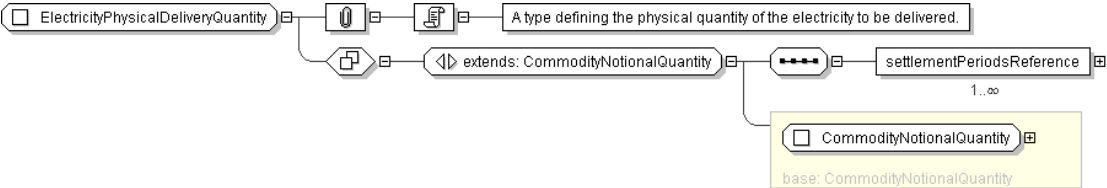
  <quantityFrequency> CommodityQuantityFrequency </quantityFrequency> [1]
  'The frequency at which the Notional Quantity is deemed to apply for purposes of
  calculating the Total Notional Quantity.'

  <quantity> xsd:decimal </quantity> [1]
  'Amount of commodity per quantity frequency.'

  <settlementPeriodsReference> SettlementPeriodsReference </settlementPeriodsReference> [1..*]
  'A pointer style reference to the range(s) of Settlement Periods to which this
  quantity applies.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityPhysicalDeliveryQuantity">
  <xsd:complexContent>
    <xsd:extension base="CommodityNotionalQuantity">
      <xsd:sequence>
        <xsd:element name="settlementPeriodsReference" type="SettlementPeriodsReference"
          " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ElectricityPhysicalDeliveryQuantitySchedule

Super-types:	CommodityPhysicalQuantitySchedule < ElectricityPhysicalDeliveryQuantitySchedule (by extension)
--------------	--

Sub-types:	None
Name	ElectricityPhysicalDeliveryQuantitySchedule
Used by (from the same schema document)	Complex Type <a href="#">ElectricityPhysicalQuantity</a>
Abstract	no
Documentation	Allows the documentation of a shaped quantity trade where the quantity changes over the life of the transaction.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<quantityStep> CommodityNotionalQuantity </quantityStep> [1..*]

'The quantity per Calculation Period. There must be a quantity specified for each
Calculation Period, regardless of whether the quantity changes or remains the same
between periods.'

Start Choice [1]
<deliveryPeriodsReference> CalculationPeriodsReference </deliveryPeriodsReference> [1]

'A pointer style reference to the Delivery Periods defined elsewhere.'

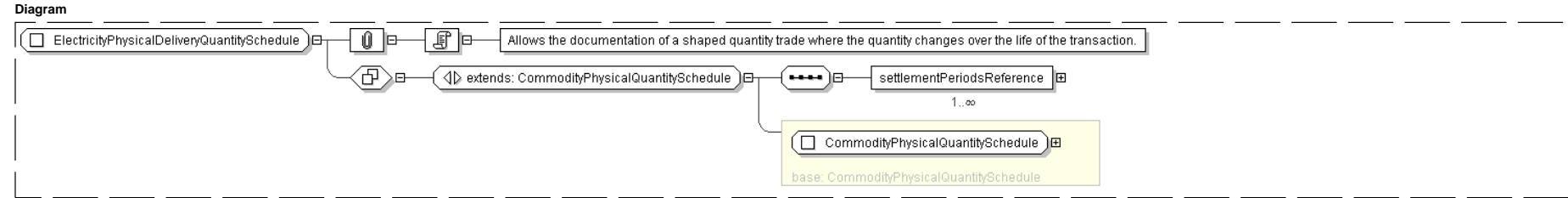
<deliveryPeriodsScheduleReference> CalculationPeriodsScheduleReference
</deliveryPeriodsScheduleReference> [1]

'A pointer style reference to the Calculation Periods Schedule defined elsewhere.'

End Choice
<settlementPeriodsReference> SettlementPeriodsReference </settlementPeriodsReference> [1..*]

'A pointer style reference to the range(s) of Settlement Periods to which this
quantity applies.'

</...>
```



Schema Component Representation

```
<xsd:complexType name="ElectricityPhysicalDeliveryQuantitySchedule">
  <xsd:complexContent>
    <xsd:extension base=" CommodityPhysicalQuantitySchedule ">
      <xsd:sequence>
        <xsd:element name="settlementPeriodsReference" type=" SettlementPeriodsReference
          " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: ElectricityPhysicalLeg

Super-types:	<a href="#">Leg</a> < <a href="#">PhysicalLeg</a> (by extension) < <b>ElectricityPhysicalLeg</b> (by extension)
Sub-types:	None
Name	ElectricityPhysicalLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Abstract	no
Documentation	Physically settled leg of a physically settled electricity transaction.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
```

```
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
```

'A reference to the party responsible for making the payments defined by this structure.'

```
<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
```

'A reference to the party that receives the payments corresponding to this structure.'

```
<deliveryPeriods> CommodityDeliveryPeriods </deliveryPeriods> [1]
```

'The different options for specifying the Delivery or Supply Periods. Unless the quantity or price is to vary periodically during the trade or physical delivery occurs on a periodic basis, periodsSchedule should be used and set to 1T.'

```
<settlementPeriods> SettlementPeriods </settlementPeriods> [1..*]
```

'The specification of the Settlement Periods in which the electricity will be delivered. The Settlement Periods will apply from and including the Effective Date up to and including the Termination Date. If more than one settlementPeriods element is present this indicates multiple ranges of Settlement Periods apply to the entire trade - for example off-peak weekdays and all day weekends. Settlement Period ranges should not overlap.'

```
<settlementPeriodsSchedule> SettlementPeriodsSchedule </settlementPeriodsSchedule> [0..1]
```

'The specification of the Settlement Periods in which the electricity will be delivered for a \"shaped\" trade i.e. where different Settlement Period ranges will apply to different periods of the trade.'

```
<electricity> ElectricityProduct </electricity> [1]
```

'The specification of the electricity to be delivered.'

```
<deliveryConditions> ElectricityDelivery </deliveryConditions> [1]
```

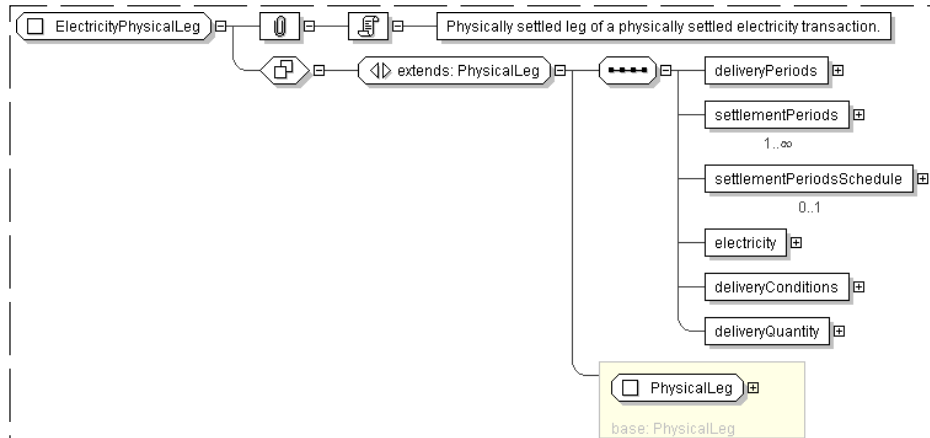
'The physical delivery conditions for the transaction.'

```
<deliveryQuantity> ElectricityPhysicalQuantity </deliveryQuantity> [1]
```

'The different options for specifying the quantity.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="ElectricityPhysicalLeg">
  <xsd:complexContent>
    <xsd:extension base="PhysicalLeg">
      <xsd:sequence>
        <xsd:element name="deliveryPeriods" type="CommodityDeliveryPeriods"/>
        <xsd:element name="settlementPeriods" type="SettlementPeriods" maxOccurs="unbounded"/>
        <xsd:element name="settlementPeriodsSchedule" type="SettlementPeriodsSchedule" minOccurs="0"/>
        <xsd:element name="electricity" type="ElectricityProduct"/>
        <xsd:element name="deliveryConditions" type="ElectricityDelivery"/>
        <xsd:element name="deliveryQuantity" type="ElectricityPhysicalQuantity"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: ElectricityPhysicalQuantity

Super-types:	<a href="#">CommodityPhysicalQuantityBase</a> < <b>ElectricityPhysicalQuantity</b> (by extension)
Sub-types:	None

Name	ElectricityPhysicalQuantity
Used by (from the same schema document)	Complex Type <a href="#">ElectricityPhysicalLeg</a>
Abstract	no
Documentation	The quantity of gas to be delivered.

XML Instance Representation

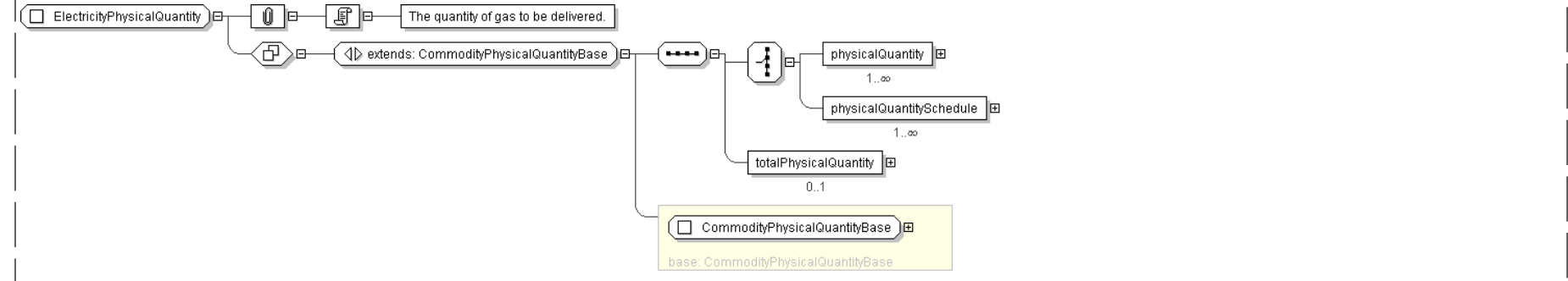
```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <physicalQuantity> ElectricityPhysicalDeliveryQuantity </physicalQuantity> [1..*]
  'The Quantity per Delivery Period.'

  <physicalQuantitySchedule> ElectricityPhysicalDeliveryQuantitySchedule
</physicalQuantitySchedule> [1..*]
  'Allows the documentation of a shaped quantity trade where the quantity changes over the
life of the transaction. Note that if the range of Settlement Periods also varies over the
life of the transaction this element should not be used. Instead, physicalQuantity should
be repeated for each range of Settlement Periods that apply at any point during the trade.'

End Choice
<totalPhysicalQuantity> UnitQuantity </totalPhysicalQuantity> [0..1]
  'The Total Quantity of the commodity to be delivered.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityPhysicalQuantity">
  <xsd:complexContent>
    <xsd:extension base="CommodityPhysicalQuantityBase">
      <xsd:sequence>
        <xsd:choice>
          <xsd:element name="physicalQuantity" type="ElectricityPhysicalDeliveryQuantity"
            maxOccurs="unbounded"/>
          <xsd:element name="physicalQuantitySchedule" type="ElectricityPhysicalDeliveryQuantitySchedule"
            maxOccurs="unbounded"/>
        </xsd:choice>
        <xsd:element name="totalPhysicalQuantity" type="UnitQuantity" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: ElectricityProduct

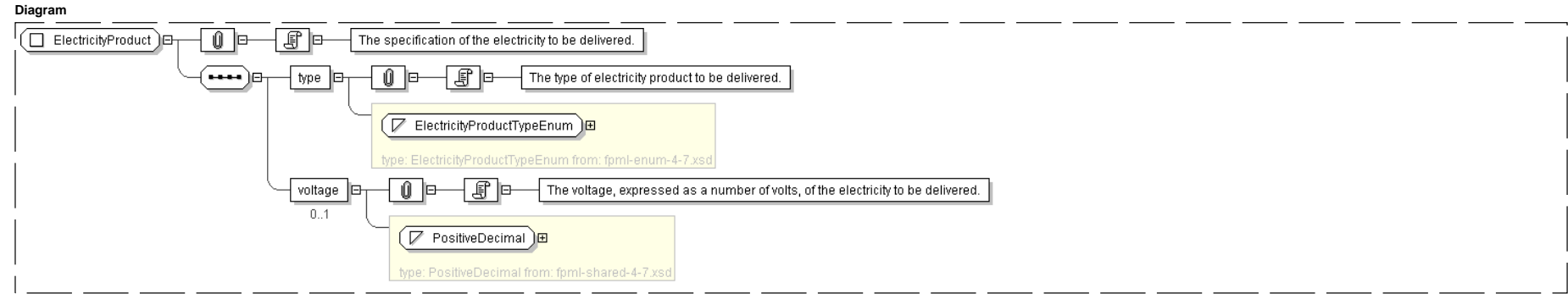
Super-types:	None
Sub-types:	None
Name	ElectricityProduct
Used by (from the same schema document)	Complex Type <a href="#">ElectricityPhysicalLeg</a>
Abstract	no
Documentation	The specification of the electricity to be delivered.

XML Instance Representation

```
<...>
  <type> ElectricityProductTypeEnum </type> [1]
  'The type of electricity product to be delivered.'

  <voltage> PositiveDecimal </voltage> [0..1]
  'The voltage, expressed as a number of volts, of the electricity to be delivered.'

</...>
```



Schema Component Representation

```
<xsd:complexType name="ElectricityProduct">
  <xsd:sequence>
    <xsd:element name="type" type=" ElectricityProductTypeEnum " />
    <xsd:element name="voltage" type=" PositiveDecimal " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: ElectricityTransmissionContingency

Super-types:	None
Sub-types:	None
Name	ElectricityTransmissionContingency
Used by (from the same schema document)	Complex Type <a href="#">ElectricityDelivery</a>
Abstract	no
Documentation	A structure to specify the transmission contingency and the party that bears the obligation.

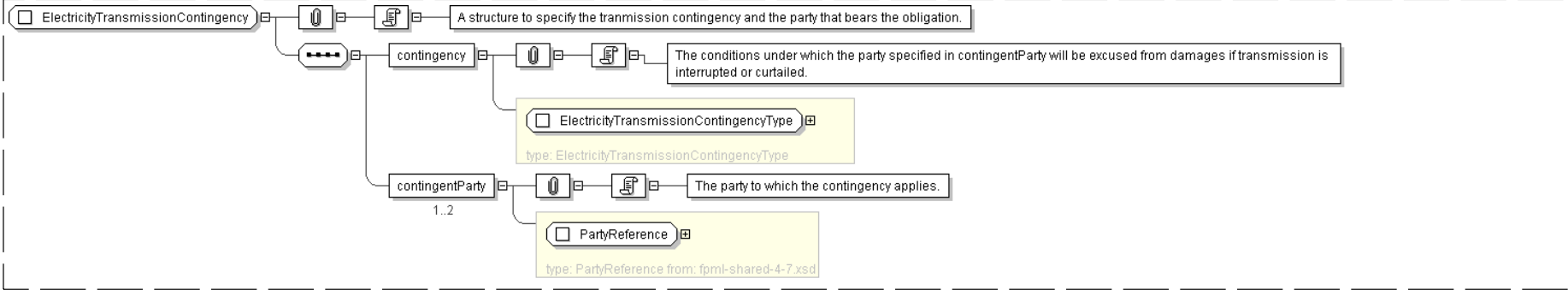
XML Instance Representation

```
<...>
  <contingency> ElectricityTransmissionContingencyType </contingency> [1]
  'The conditions under which the party specified in contingentParty will be excused from
  damages if transmission is interrupted or curtailed.'

  <contingentParty> PartyReference </contingentParty> [1..2]
  'The party to which the contingency applies.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityTransmissionContingency">
  <xsd:sequence>
    <xsd:element name="contingency" type="ElectricityTransmissionContingencyType"/>
    <xsd:element name="contingentParty" type="PartyReference" maxOccurs="2"/>
  </xsd:sequence>
</xsd:complexType>
```

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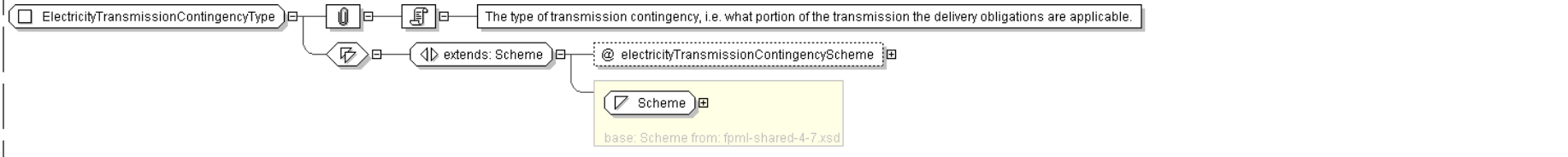
Complex Type: ElectricityTransmissionContingencyType

Super-types:	<a href="#">Scheme</a> < <b>ElectricityTransmissionContingencyType</b> (by extension)
Sub-types:	None
Name	ElectricityTransmissionContingencyType
Used by (from the same schema document)	Complex Type <a href="#">ElectricityTransmissionContingency</a>
Abstract	no
Documentation	The type of transmission contingency, i.e. what portion of the transmission the delivery obligations are applicable.

XML Instance Representation

```
<...
electricityTransmissionContingencyScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ElectricityTransmissionContingencyType">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="electricityTransmissionContingencyScheme" type="xsd:anyURI"
        " default="http://www.fpml.org/coding-scheme/electricity-transmission-contingency"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: FixedPrice



Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">SettlementPeriodsFixedPrice</a> (by extension)</li></ul>
Name	FixedPrice
Used by (from the same schema document)	Complex Type <a href="#">CommodityFixedPriceSchedule</a> , Complex Type <a href="#">CommoditySettlementPeriodsPriceSchedule</a> , Complex Type <a href="#">NonPeriodicFixedPriceLeg</a> , Model Group <a href="#">CommodityFixedPrice.model</a>
Abstract	no
Documentation	A type defining the Fixed Price.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <price> xsd:decimal </price> [1]  
  'The Fixed Price.'  
  
  <priceCurrency> Currency </priceCurrency> [1]  
  'Currency of the fixed price.'  
  
  <priceUnit> QuantityUnit </priceUnit> [1]  
  'The unit of measure used to calculate the Fixed Price.'  
  
</...>
```



Schema Component Representation

```
<xsd:complexType name="FixedPrice">  
  <xsd:sequence>  
    <xsd:element name="price" type=" xsd:decimal "/>  
    <xsd:group ref=" Price.model "/>  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID "/>  
</xsd:complexType>
```

Complex Type: **FixedPriceLeg**

Super-types:	<a href="#">Leg</a> < <a href="#">FixedPriceLeg</a> (by extension)
Sub-types:	None
Name	FixedPriceLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Abstract	no
Documentation	Fixed Price Leg of a Commodity Swap.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
  'A reference to the party responsible for making the payments defined by this structure.'  
  
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
  'A reference to the party that receives the payments corresponding to this structure.'
```

Start [Choice](#) [1]

<calculationPeriods> [AdjustableDates](#) </calculationPeriods> [1]

'The Calculation Period start dates for this leg of the swap. This type is only intended to be used if the Calculation Periods differ on each leg. If Calculation Periods mirror another leg, then the calculationPeriodsReference element should be used to point to the Calculation Periods on that leg - or the calculationPeriodsScheduleReference can be used to point to the Calculation Periods Schedule for that leg.'

<calculationPeriodsSchedule> [CommodityCalculationPeriodsSchedule](#) </calculationPeriodsSchedule> [1]

'The Calculation Periods for this leg of the swap. This type is only intended to be used if the Calculation Periods differ on each leg. If Calculation Periods mirror another leg, then the calculationPeriodsReference element should be used to point to the Calculation Periods on the other leg - or the calculationPeriodsScheduleReference can be used to point to the Calculation Periods Schedule for that leg.'

Start [Choice](#) [1]

<calculationPeriodsReference> [CalculationPeriodsReference](#) </calculationPeriodsReference> [1]

'A pointer style reference to the Calculation Periods defined on another leg.'

<calculationPeriodsScheduleReference> [CalculationPeriodsScheduleReference](#)

</calculationPeriodsScheduleReference> [1]

'A pointer style reference to the Calculation Periods Schedule defined on another leg.'

End Choice

End Choice

Start [Choice](#) [1]

<fixedPriceSchedule> [CommodityFixedPriceSchedule](#) </fixedPriceSchedule> [1]

'Allows the specification of a Fixed Price that varies over the life of the trade.'

Start [Choice](#) [1]

<fixedPrice> [FixedPrice](#) </fixedPrice> [1]

'Fixed price on which fixed payments are based.'

<worldscaleRate> [xsd:decimal](#) </worldscaleRate> [1]

'For a WET Voyager Charter Commodity Swap, the number of Worldscale Points for purposes of the calculation of a Fixed Amount.'

<contractRate> [NonNegativeMoney](#) </contractRate> [1]

'For a DRY Voyage Charter or Time Charter Commodity Swap, the price per relevant unit for purposes of the calculation of a Fixed Amount.'

<settlementPeriodsPrice> [SettlementPeriodsFixedPrice](#) </settlementPeriodsPrice> [1..\*]

'For an electricity transaction, the fixed price for one or more groups of Settlement Periods on which fixed payments are based. If the fixed price differs for different groups of Settlement Periods, this element should be repeated.'

End Choice

End Choice

<totalPrice> [NonNegativeMoney](#) </totalPrice> [0..1]

'The total amount of all fixed payments due during the term of the trade.'

Start [Choice](#) [1]

Start [Choice](#) [1]

<notionalQuantitySchedule> [CommodityNotionalQuantitySchedule](#) </notionalQuantitySchedule> [1]

'Allows the documentation of a shaped notional trade where the notional changes over the life of the transaction.'

<notionalQuantity> [CommodityNotionalQuantity](#) </notionalQuantity> [1]

'The Notional Quantity.'

<settlementPeriodsNotionalQuantity> [CommoditySettlementPeriodsNotionalQuantity](#)

</settlementPeriodsNotionalQuantity> [1..\*]

'For an electricity transaction, the Notional Quantity for a one or more groups of Settlement Periods to which the Notional Quantity is based. If the schedule differs for different groups of Settlement Periods, this element should be repeated.'

End Choice

<totalNotionalQuantity> [xsd:decimal](#) </totalNotionalQuantity> [0..1]

'The Total Notional Quantity.'

<quantityReference> [QuantityReference](#) </quantityReference> [1]

'A pointer style reference to a quantity defined on another leg.'

End Choice

Start Choice [1]

<relativePaymentDates> [CommodityRelativePaymentDates.model](#) </relativePaymentDates> [1]

'The Payment Dates of the trade relative to the Calculation Periods.'

Start Choice [1]

<paymentDates> [AdjustableDatesOrRelativeDateOffset](#) </paymentDates> [1]

'Dates on which payments will be made.'

<masterAgreementPaymentDates> [xsd:boolean](#) </masterAgreementPaymentDates> [1]

'If present and true indicates that the Payment Date(s) are specified in the relevant master agreement.'

End Choice

End Choice

Start Group: [CommodityFreightFlatRate.model](#) [0..1]

<flatRate> [FlatRateEnum](#) </flatRate> [1]

'Whether the Flat Rate is the New Worldwide Tanker Nominal Freight Scale for the Freight Index Route taken at the Trade Date of the transaction or taken on each Pricing Date.'

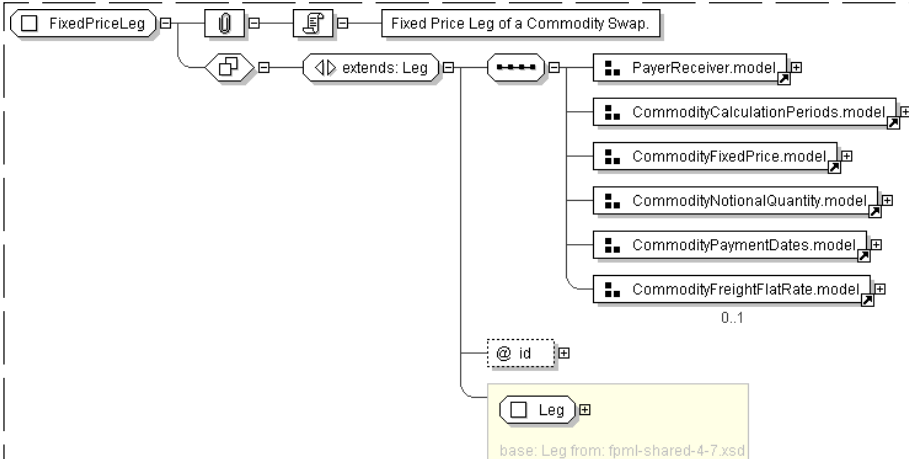
<flatRateAmount> [NonNegativeMoney](#) </flatRateAmount> [0..1]

'If flatRate is set to \"Fixed\", the actual value of the Flat Rate.'

End Group: [CommodityFreightFlatRate.model](#)

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="FixedPriceLeg">
  <xsd:complexContent>
    <xsd:extension base="Leg">
      <xsd:sequence>
        <xsd:group ref="PayerReceiver.model"/>
        <xsd:group ref="CommodityCalculationPeriods.model"/>
        <xsd:group ref="CommodityFixedPrice.model"/>
        <xsd:group ref="CommodityNotionalQuantity.model"/>
        <xsd:group ref="CommodityPaymentDates.model"/>
        <xsd:group ref="CommodityFreightFlatRate.model" minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="id" type="xsd:ID"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
  
```

Complex Type: FloatingLegCalculation

Super-types:	None
Sub-types:	None
Name	FloatingLegCalculation
Used by (from the same schema document)	Complex Type <a href="#">FloatingPriceLeg</a>
Abstract	no
Documentation	A type to capture details relevant to the calculation of the floating price.

XML Instance Representation

```
<...>
<pricingDates> CommodityPricingDates </pricingDates> [1]
  'Commodity Pricing Dates.'

<averagingMethod> AveragingMethodEnum </averagingMethod> [0..1]
  'The parties may specify a Method of Averaging where more than one pricing Dates is
  being specified as being applicable.'

<conversionFactor> xsd:decimal </conversionFactor> [0..1]
  'If the Notional Quantity is specified in a unit that does not match the unit in which
  the Commodity Reference Price is quoted, the scaling or conversion factor used to convert
  the Commodity Reference Price unit into the Notional Quantity unit should be stated here.
  If there is no conversion, this element is not intended to be used.'

<rounding> Rounding </rounding> [0..1]
  'Rounding direction and precision for price values.'

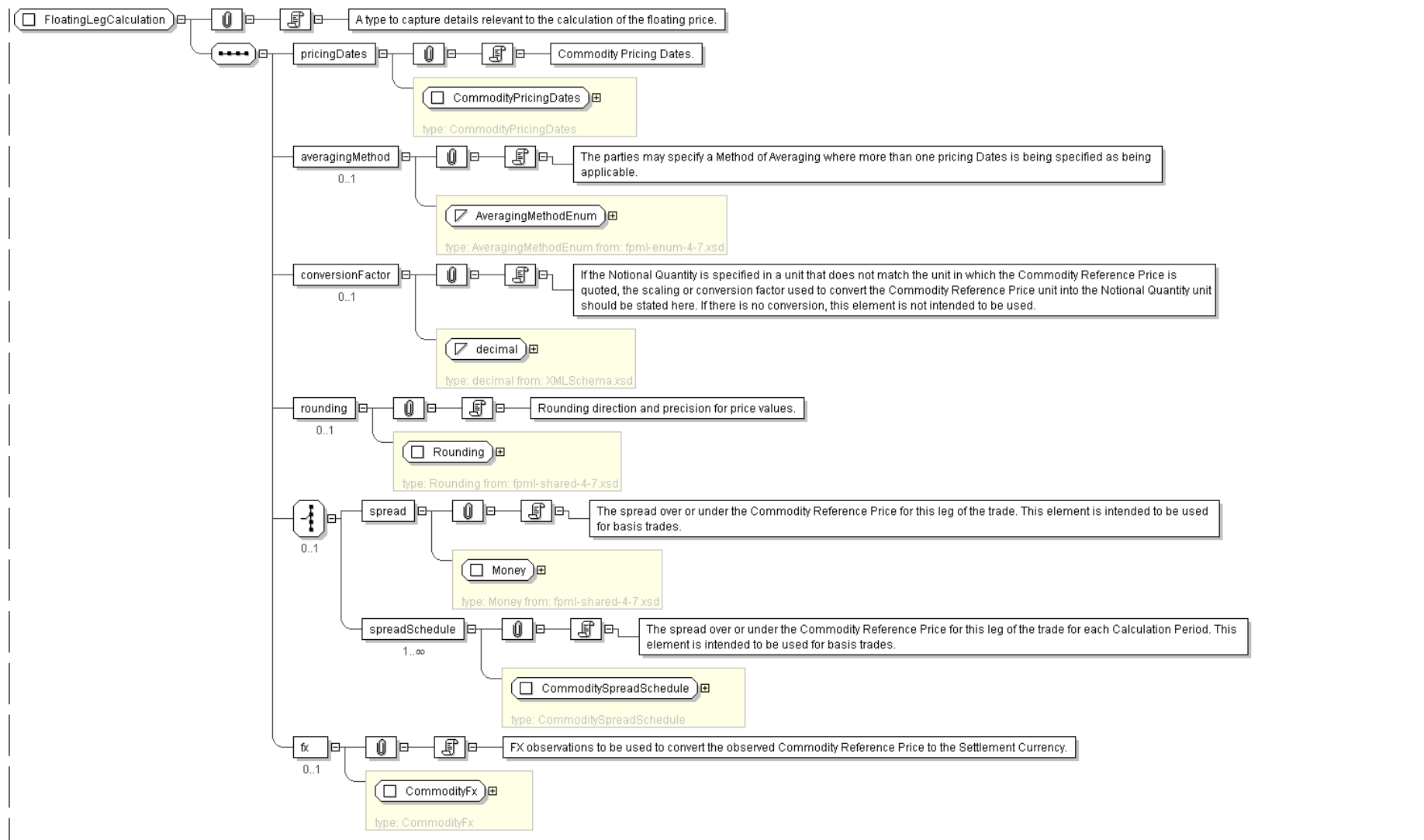
Start Choice [0..1]
  <spread> Money </spread> [1]
    'The spread over or under the Commodity Reference Price for this leg of the trade. This
    element is intended to be used for basis trades.'

    <spreadSchedule> CommoditySpreadSchedule </spreadSchedule> [1..*]
      'The spread over or under the Commodity Reference Price for this leg of the trade for
      each Calculation Period. This element is intended to be used for basis trades.'

End Choice
  <fx> CommodityFx </fx> [0..1]
    'FX observations to be used to convert the observed Commodity Reference Price to the
    Settlement Currency.'

</...>
```

Diagram



## Schema Component Representation

```

<xsd:complexType name="FloatingLegCalculation">
  <xsd:sequence>
    <xsd:element name="pricingDates" type="CommodityPricingDates" />
    <xsd:element name="averagingMethod" type="AveragingMethodEnum" minOccurs="0"/>
    <xsd:element name="conversionFactor" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="rounding" type="Rounding" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="spread" type="Money" />
      <xsd:element name="spreadSchedule" type="CommoditySpreadSchedule" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:element name="fx" type="CommodityFx" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
  
```

Super-types:	<a href="#">Leg</a> < <b>FloatingPriceLeg</b> (by extension)
Sub-types:	None

Name	FloatingPriceLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Abstract	no
Documentation	Floating Price Leg of a Commodity Swap.

XML Instance Representation

<... id=" xsd:ID [0..1]"> <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1] 'A reference to the party responsible for making the payments defined by this structure.'  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1] 'A reference to the party that receives the payments corresponding to this structure.'	
Start Choice [1] <calculationPeriods> AdjustableDates </calculationPeriods> [1] 'The Calculation Period start dates for this leg of the swap. This type is only intended to be used if the Calculation Periods differ on each leg. If Calculation Periods mirror another leg, then the calculationPeriodsReference element should be used to point to the Calculation Periods on that leg - or the calculationPeriodsScheduleReference can be used to point to the Calculation Periods Schedule for that leg.'	
<calculationPeriodsSchedule> CommodityCalculationPeriodsSchedule </calculationPeriodsSchedule> [1] 'The Calculation Periods for this leg of the swap. This type is only intended to be used if the Calculation Periods differ on each leg. If Calculation Periods mirror another leg, then the calculationPeriodsReference element should be used to point to the Calculation Periods on the other leg - or the calculationPeriodsScheduleReference can be used to point to the Calculation Periods Schedule for that leg.'	
End Choice End Choice <commodity> Commodity </commodity> [1] 'Specifies the underlying instrument. At this time, only underlyers of type Commodity are supported; the choice group in the future could offer the possibility of adding other types later.'	
Start Choice [1] Start Choice [1] <notionalQuantitySchedule> CommodityNotionalQuantitySchedule </notionalQuantitySchedule> [1] 'Allows the documentation of a shaped notional trade where the notional changes over the life of the transaction.'	
<notionalQuantity> CommodityNotionalQuantity </notionalQuantity> [1] 'The Notional Quantity.'	
<settlementPeriodsNotionalQuantity> CommoditySettlementPeriodsNotionalQuantity </settlementPeriodsNotionalQuantity> [1..*] 'For an electricity transaction, the Notional Quantity for a one or more groups of Settlement Periods to which the Notional Quantity is based. If the schedule differs for different groups of Settlement Periods, this element should be repeated.'	
End Choice <totalNotionalQuantity> xsd:decimal </totalNotionalQuantity> [0..1] 'The Total Notional Quantity.'	
<quantityReference> QuantityReference </quantityReference> [1] 'A pointer style reference to a quantity defined on another leg.'	
End Choice	

```
<calculation> FloatingLegCalculation </calculation> [1]
```

'Defines details relevant to the calculation of the floating price.'

Start [Choice](#) [1]

```
<relativePaymentDates> CommodityRelativePaymentDates </relativePaymentDates> [1]
```

'The Payment Dates of the trade relative to the Calculation Periods.'

Start [Choice](#) [1]

```
<paymentDates> AdjustableDatesOrRelativeDateOffset </paymentDates> [1]
```

'Dates on which payments will be made.'

```
<masterAgreementPaymentDates> xsd:boolean </masterAgreementPaymentDates> [1]
```

'If present and true indicates that the Payment Date(s) are specified in the relevant master agreement.'

End Choice

End Choice

Start Group: [CommodityFreightFlatRate.model](#) [0..1]

```
<flatRate> FlatRateEnum </flatRate> [1]
```

'Whether the Flat Rate is the New Worldwide Tanker Nominal Freight Scale for the Freight Index Route taken at the Trade Date of the transaction or taken on each Pricing Date.'

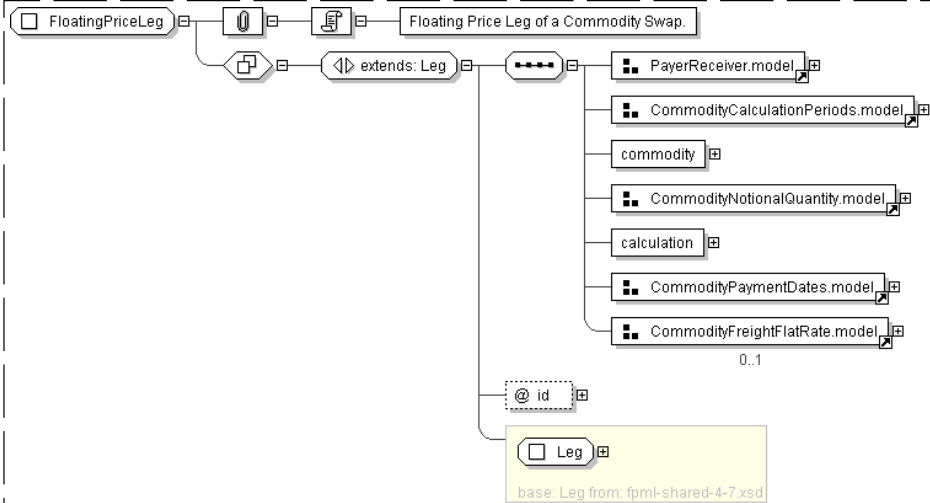
```
<flatRateAmount> NonNegativeMoney </flatRateAmount> [0..1]
```

'If flatRate is set to \"Fixed\", the actual value of the Flat Rate.'

End Group: [CommodityFreightFlatRate.model](#)

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="FloatingPriceLeg">
  <xsd:complexContent>
    <xsd:extension base="Leg" >
      <xsd:sequence>
        <xsd:group ref="PayerReceiver.model" />
        <xsd:group ref="CommodityCalculationPeriods.model" />
        <xsd:element name="commodity" type="Commodity" />
        <xsd:group ref="CommodityNotionalQuantity.model" />
        <xsd:element name="calculation" type="FloatingLegCalculation" />
        <xsd:group ref="CommodityPaymentDates.model" />
        <xsd:group ref="CommodityFreightFlatRate.model" minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="id" type="xsd:ID" />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **GasDelivery**

Super-types:	None
Sub-types:	None
Name	GasDelivery
Used by (from the same schema document)	Complex Type <a href="#">GasPhysicalLeg</a>
Abstract	no
Documentation	The specification of the gas to be delivered.

XML Instance Representation

```
<...>
Start Choice [1]
<deliveryPoint> GasDeliveryPoint </deliveryPoint> [1]
  'The physical or virtual point at which the commodity will be delivered.'

<entryPoint> CommodityDeliveryPoint </entryPoint> [1]
  'The physical or virtual point at which the commodity enters a transportation system.'

<withdrawalPoint> CommodityDeliveryPoint </withdrawalPoint> [1]
  'The physical or virtual point at which the commodity is withdrawn from a
  transportation system.'

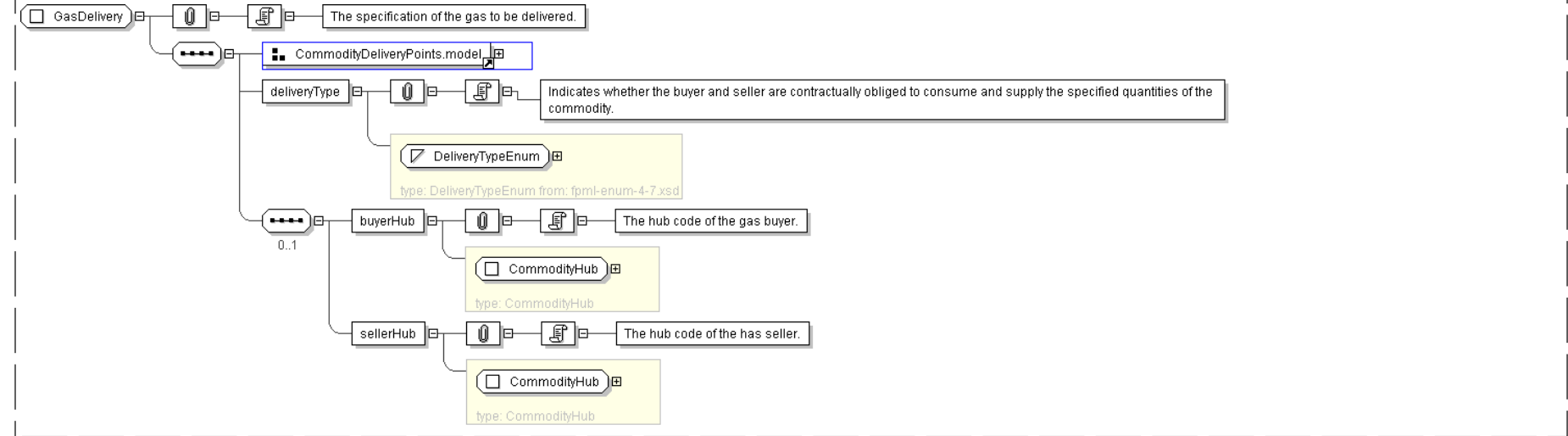
End Choice
<deliveryType> DeliveryTypeEnum </deliveryType> [1]
  'Indicates whether the buyer and seller are contractually obliged to consume and supply
  the specified quantities of the commodity.'

Start Sequence [0..1]
<buyerHub> CommodityHub </buyerHub> [1]
  'The hub code of the gas buyer.'

<sellerHub> CommodityHub </sellerHub> [1]
  'The hub code of the has seller.'

End Sequence
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GasDelivery">
```



```
<xsd:sequence>
  <xsd:group ref="CommodityDeliveryPoints.model"/>
  <xsd:element name="deliveryType" type="DeliveryTypeEnum"/>
  <xsd:sequence minOccurs="0">
    <xsd:element name="buyerHub" type="CommodityHub"/>
    <xsd:element name="sellerHub" type="CommodityHub"/>
  </xsd:sequence>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **GasDeliveryPeriods**

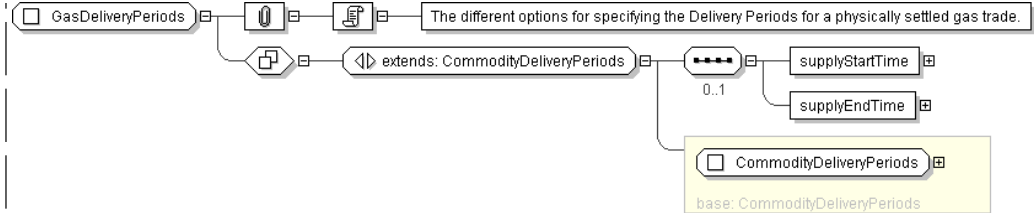
Super-types:	<a href="#">CommodityDeliveryPeriods</a> < <b>GasDeliveryPeriods</b> (by extension)
Sub-types:	None

Name	GasDeliveryPeriods
Used by (from the same schema document)	Complex Type <a href="#">GasPhysicalLeg</a>
Abstract	no
Documentation	The different options for specifying the Delivery Periods for a physically settled gas trade.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
Start Choice [1]
  <periods> AdjustableDates </periods> [1]
  'The Delivery Periods for this leg of the swap. This type is only intended to be used if
  the Delivery Periods differ from the Calculation Periods on the fixed or floating leg.
  If DeliveryPeriods mirror another leg, then the calculationPeriodsReference element should
  be used to point to the Calculation Periods on that leg - or
  the calculationPeriodsScheduleReference can be used to point to the Calculation
  Periods Schedule for that leg.'
  <periodsSchedule> CommodityCalculationPeriodsSchedule </periodsSchedule> [1]
  'The Delivery Periods for this leg of the swap. This type is only intended to be used if
  the Delivery Periods differ from the Calculation Periods on the fixed or floating leg.
  If DeliveryPeriods mirror another leg, then the calculationPeriodsReference element should
  be used to point to the Calculation Periods on that leg - or
  the calculationPeriodsScheduleReference can be used to point to the Calculation
  Periods Schedule for that leg.'
Start Choice [1]
  <calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
  'A pointer style reference to the Calculation Periods defined on another leg.'
  <calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
  </calculationPeriodsScheduleReference> [1]
  'A pointer style reference to the Calculation Periods Schedule defined on another leg.'
End Choice
End Choice
Start Sequence [0..1]
  <supplyStartTime> PrevailingTime </supplyStartTime> [1]
  'The time at which gas delivery should start on each day of the Delivery Period(s).'
  <supplyEndTime> PrevailingTime </supplyEndTime> [1]
  'The time at which gas delivery should end on each day of the Delivery Period(s).'
End Sequence
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GasDeliveryPeriods">
  <xsd:complexContent>
    <xsd:extension base=" CommodityDeliveryPeriods " >
      <xsd:sequence minOccurs="0">
        <xsd:element name="supplyStartTime" type=" PrevailingTime " />
        <xsd:element name="supplyEndTime" type=" PrevailingTime " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: GasDeliveryPoint

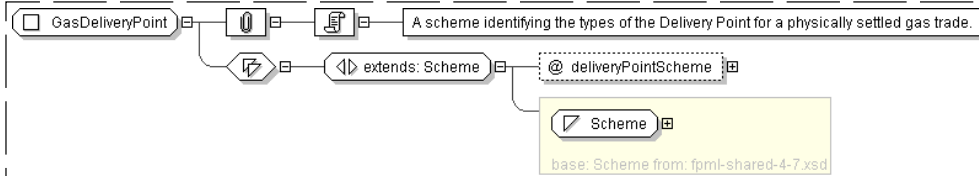
Super-types:	<a href="#">Scheme</a> < <b>GasDeliveryPoint</b> (by extension)
Sub-types:	None

Name	GasDeliveryPoint
Used by (from the same schema document)	Model Group <a href="#">CommodityDeliveryPoints.model</a>
Abstract	no
Documentation	A scheme identifying the types of the Delivery Point for a physically settled gas trade.

XML Instance Representation

```
<...
deliveryPointScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GasDeliveryPoint">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="deliveryPointScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: GasPhysicalLeg

Super-types:	<a href="#">Leg</a> < <a href="#">PhysicalLeg</a> (by extension) < <b>GasPhysicalLeg</b> (by extension)
Sub-types:	None

Name	GasPhysicalLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Abstract	no
Documentation	Physically settled leg of a physically settled gas transaction.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

<deliveryPeriods> GasDeliveryPeriods </deliveryPeriods> [1]
'The different options for specifying the Delivery or Supply Periods. Unless the quantity
or price is to vary periodically during the trade or physical delivery occurs on a
periodic basis, periodsSchedule should be used and set to 1T.'

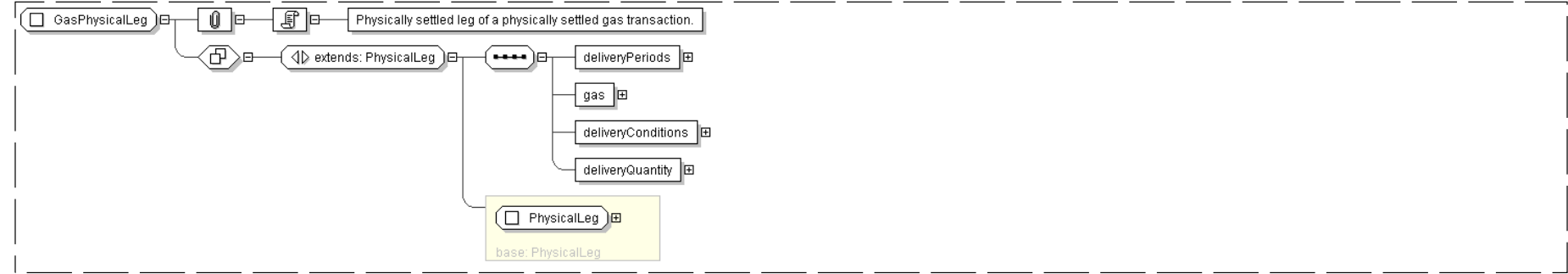
<gas> GasProduct </gas> [1]
'The specification of the gas to be delivered.'

<deliveryConditions> GasDelivery </deliveryConditions> [1]
'The physical delivery conditions for the transaction.'

<deliveryQuantity> GasPhysicalQuantity </deliveryQuantity> [1]
'The different options for specifying the quantity. For Fixed trades where the quantity
is known at the time of confirmation, a single quantity or a quantity per Delivery Period
may be specified. For Variable trades minimum and maximum trades may be specified.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GasPhysicalLeg">
  <xsd:complexContent>
    <xsd:extension base=" PhysicalLeg ">
      <xsd:sequence>
        <xsd:element name="deliveryPeriods" type=" GasDeliveryPeriods "/>
        <xsd:element name="gas" type=" GasProduct "/>
        <xsd:element name="deliveryConditions" type=" GasDelivery "/>
        <xsd:element name="deliveryQuantity" type=" GasPhysicalQuantity "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: GasPhysicalQuantity

Super-types:	<a href="#">CommodityPhysicalQuantityBase</a> < <b>GasPhysicalQuantity</b> (by extension)
Sub-types:	None

Name	GasPhysicalQuantity
Used by (from the same schema document)	Complex Type <a href="#">GasPhysicalLeg</a>
Abstract	no
Documentation	The quantity of gas to be delivered.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
Start Choice [1]
  <physicalQuantity> CommodityNotionalQuantity </physicalQuantity> [1]
  'The Quantity per Delivery Period.'

  <physicalQuantitySchedule> CommodityPhysicalQuantitySchedule </physicalQuantitySchedule> [1]
  'Allows the documentation of a shaped quantity trade where the quantity changes over the
  life of the transaction.'

End Choice
<totalPhysicalQuantity> UnitQuantity </totalPhysicalQuantity> [0..1]
'The Total Quantity of the commodity to be delivered.'

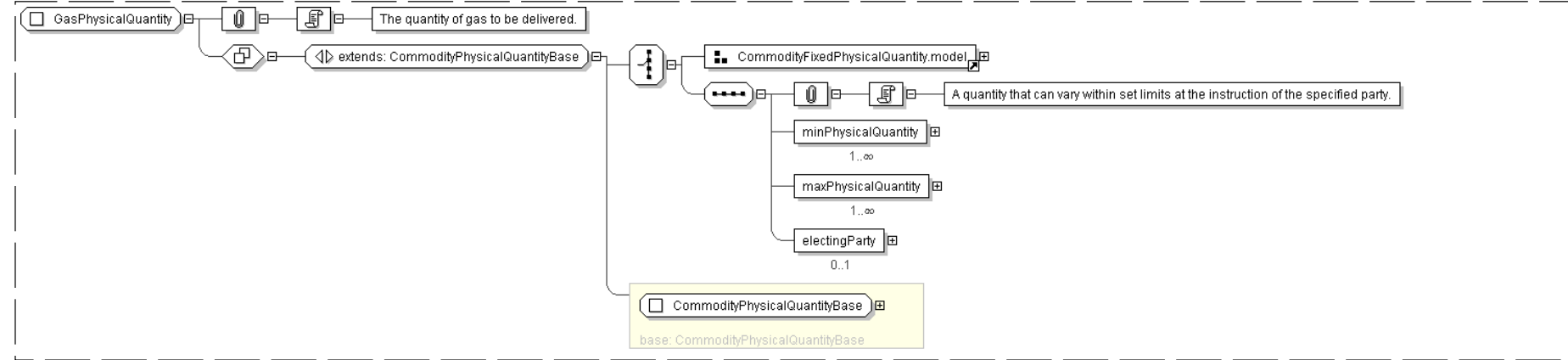
<minPhysicalQuantity> CommodityNotionalQuantity </minPhysicalQuantity> [1..*]
'The minimum quantity to be delivered. If separate minimums need to be specified for
different periods (e.g. a minimum per day and a minimum per month) this element should
be repeated.'

<maxPhysicalQuantity> CommodityNotionalQuantity </maxPhysicalQuantity> [1..*]
'The maximum quantity to be delivered. If separate minimums need to be specified for
different periods (e.g. a minimum per day and a minimum per month) this element should
be repeated.'

<electingParty> PartyReference </electingParty> [0..1]
'Indicates the party able to choose whether the gas is delivered for a particular period e.g.
a swing or interruptible contract.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GasPhysicalQuantity">
  <xsd:complexContent>
    <xsd:extension base=" CommodityPhysicalQuantityBase ">
      <xsd:choice>
        <xsd:group ref=" CommodityFixedPhysicalQuantity.model "/">
          <xsd:sequence>
            <xsd:element name="minPhysicalQuantity" type=" CommodityNotionalQuantity
              " maxOccurs="unbounded"/>
            <xsd:element name="maxPhysicalQuantity" type=" CommodityNotionalQuantity
              " maxOccurs="unbounded"/>
            <xsd:element name="electingParty" type=" PartyReference
```

Complex Type: GasProduct

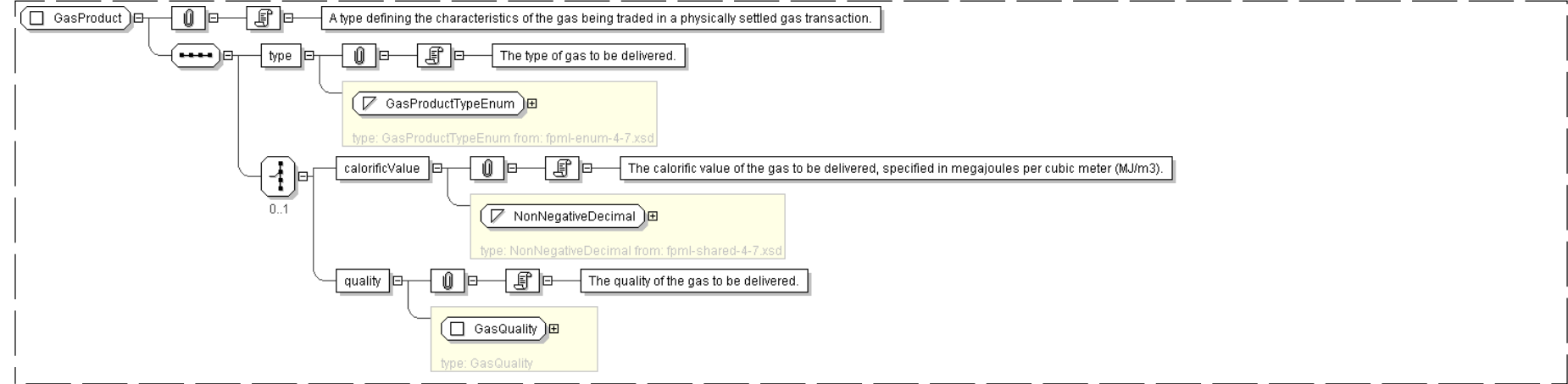
Super-types:	None
Sub-types:	None
Name	GasProduct
Used by (from the same schema document)	Complex Type <a href="#">GasPhysicalLeg</a>
Abstract	no
Documentation	A type defining the characteristics of the gas being traded in a physically settled gas transaction.

XML Instance Representation

```
<...>
<type> GasProductTypeEnum </type> [1]
  'The type of gas to be delivered.'

Start Choice [0..1]
  <calorificValue> NonNegativeDecimal </calorificValue> [1]
    'The calorific value of the gas to be delivered, specified in megajoules per cubic meter
    (MJ/m3).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GasProduct">
  <xsd:sequence>
    <xsd:element name="type" type=" GasProductTypeEnum " />
    <xsd:choice minOccurs="0">
      <xsd:element name="calorificValue" type=" NonNegativeDecimal " />
      <xsd:element name="quality" type=" GasQuality " />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

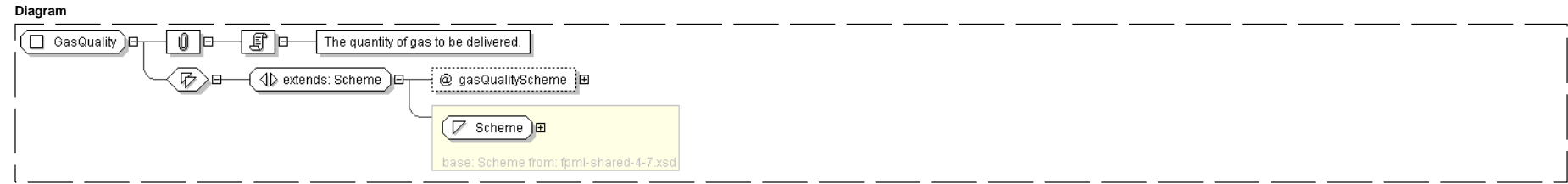
Complex Type: **GasQuality**

Super-types:	<a href="#">Scheme</a> < <b>GasQuality</b> (by extension)
Sub-types:	None

Name	GasQuality
Used by (from the same schema document)	Complex Type <a href="#">GasProduct</a>
Abstract	no
Documentation	The quantity of gas to be delivered.

XML Instance Representation

```
<...  
  gasQualityScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```



Schema Component Representation

```
<xsd:complexType name="GasQuality">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="gasQualityScheme" type=" xsd:anyURI " default="http://www.fpml.org/  
        coding-scheme/commodity-gas-quality"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **Lag**

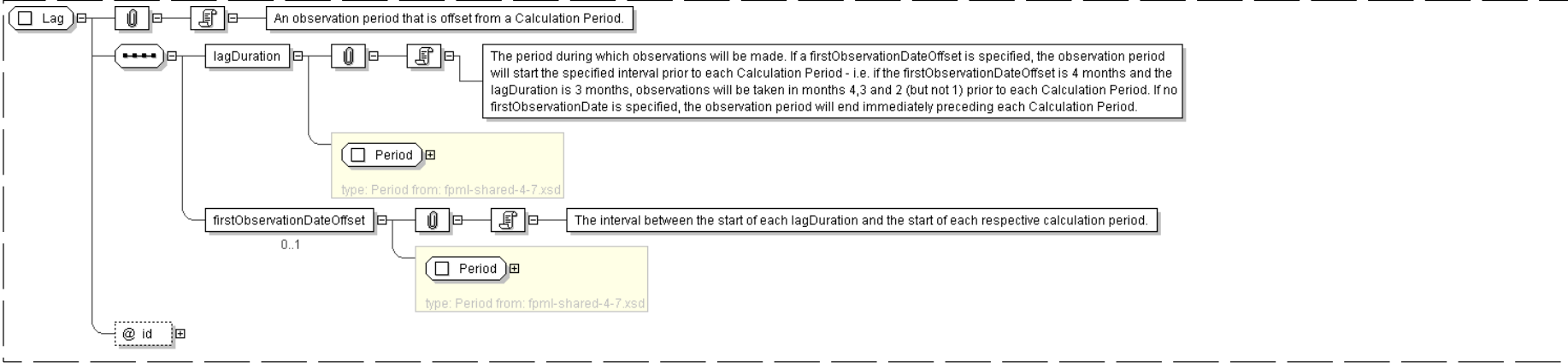
Super-types:	None
Sub-types:	None

Name	Lag
Used by (from the same schema document)	Complex Type <a href="#">CommodityPricingDates</a> , Model Group <a href="#">LagOrReference.model</a>
Abstract	no
Documentation	An observation period that is offset from a Calculation Period.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <lagDuration> Period </lagDuration> [1]  
  
    'The period during which observations will be made. If a firstObservationDateOffset  
    is specified, the observation period will start the specified interval prior to  
    each Calculation Period - i.e. if the firstObservationDateOffset is 4 months and  
    the lagDuration is 3 months, observations will be taken in months 4,3 and 2 (but not 1)  
    prior to each Calculation Period. If no firstObservationDate is specified, the  
    observation period will end immediately preceding each Calculation Period.'  
  
    <firstObservationDateOffset> Period </firstObservationDateOffset> [0..1]  
  
    'The interval between the start of each lagDuration and the start of each  
    respective calculation period.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Lag">
  <xsd:sequence>
    <xsd:element name="lagDuration" type="Period" />
    <xsd:element name="firstObservationDateOffset" type="Period" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

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Complex Type: LagReference

Super-types:	<a href="#">Reference</a> < <b>LagReference</b> (by extension)
Sub-types:	None
Name	LagReference
Used by (from the same schema document)	Model Group <a href="#">LagOrReference.model</a>
Abstract	no
Documentation	Allows a lag to reference one already defined elsewhere in the trade.

XML Instance Representation

```
<...
href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LagReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Lag"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MarketDisruptionEvent**

Super-types:	<a href="#">Scheme</a> < <b>MarketDisruptionEvent</b> (by extension)
Sub-types:	None

Name	MarketDisruptionEvent
Used by (from the same schema document)	Complex Type <a href="#">CommodityMarketDisruption</a> , Complex Type <a href="#">CommodityMarketDisruption</a>
Abstract	no
Documentation	A Market Disruption Event.

XML Instance Representation

```
<...  
commodityMarketDisruptionScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MarketDisruptionEvent">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="commodityMarketDisruptionScheme" type=" xsd:anyURI " default="http://  
        www.fpml.org/coding-scheme/commodity-market-disruption"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **NonPeriodicFixedPriceLeg**

Super-types:	<a href="#">Leg</a> < <b>NonPeriodicFixedPriceLeg</b> (by extension)
Sub-types:	None

Name	NonPeriodicFixedPriceLeg
Used by (from the same schema document)	Complex Type <a href="#">CommodityForward</a>
Abstract	no
Documentation	The details of a fixed payment. Can be used for a forward transaction or as the base for a more complex fixed leg component such as the fixed leg of a swap.

XML Instance Representation

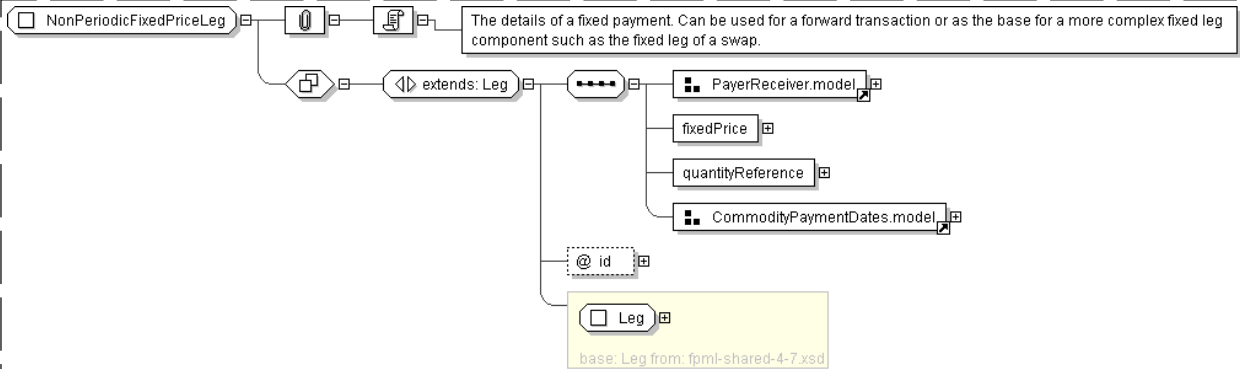
```
<...  
id=" xsd:ID [0..1]">  
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
  'A reference to the party responsible for making the payments defined by this structure.'  
  
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
  'A reference to the party that receives the payments corresponding to this structure.'  
  
  <fixedPrice> FixedPrice </fixedPrice> [1]  
  'Fixed price on which fixed payments are based.'  
  
  <quantityReference> QuantityReference </quantityReference> [1]  
  'A pointer style reference to a quantity defined on another leg.'  
  
  Start Choice [1]  
  <relativePaymentDates> CommodityRelativePaymentDates </relativePaymentDates> [1]  
  'The Payment Dates of the trade relative to the Calculation Periods.'
```



```
Start Choice [1]
  <paymentDates> AdjustableDatesOrRelativeDateOffset </paymentDates> [1]
  'Dates on which payments will be made.'

  <masterAgreementPaymentDates> xsd:boolean </masterAgreementPaymentDates> [1]
  'If present and true indicates that the Payment Date(s) are specified in the relevant
  master agreement.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NonPeriodicFixedPriceLeg">
  <xsd:complexContent>
    <xsd:extension base=" Leg ">
      <xsd:sequence>
        <xsd:group ref=" PayerReceiver.model "/>
        <xsd:element name="fixedPrice" type=" FixedPrice "/>
        <xsd:element name="quantityReference" type=" QuantityReference "/>
        <xsd:group ref=" CommodityPaymentDates.model "/>
      </xsd:sequence>
      <xsd:attribute name="id" type=" xsd:ID "/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: OilDelivery

Super-types:	None
Sub-types:	None
Name	OilDelivery
Used by (from the same schema document)	Complex Type <a href="#">OilPhysicalLeg</a>
Abstract	no
Documentation	The physical delivery conditions for an oil product.

XML Instance Representation

```
<...>
Start Choice [1]
  <pipeline> OilPipelineDelivery </pipeline> [1]
  'Specified the delivery conditions where the oil product is to be delivered by pipeline.'

  <transfer> OilTransferDelivery </transfer> [1]
  'Specified the delivery conditions where the oil product is to be delivered by title transfer.'
```

```
<importerOfRecord> PartyReference </importerOfRecord> [0..1]
```

'Specifies which party is the Importer of Record for the purposes of paying customs duties and applicable taxes or costs related to the import of the oil product.'

Start [Choice](#) [0..1]

```
<absoluteTolerance> AbsoluteTolerance </absoluteTolerance> [1]
```

'Specifies the allowable quantity tolerance as an absolute quantity.'

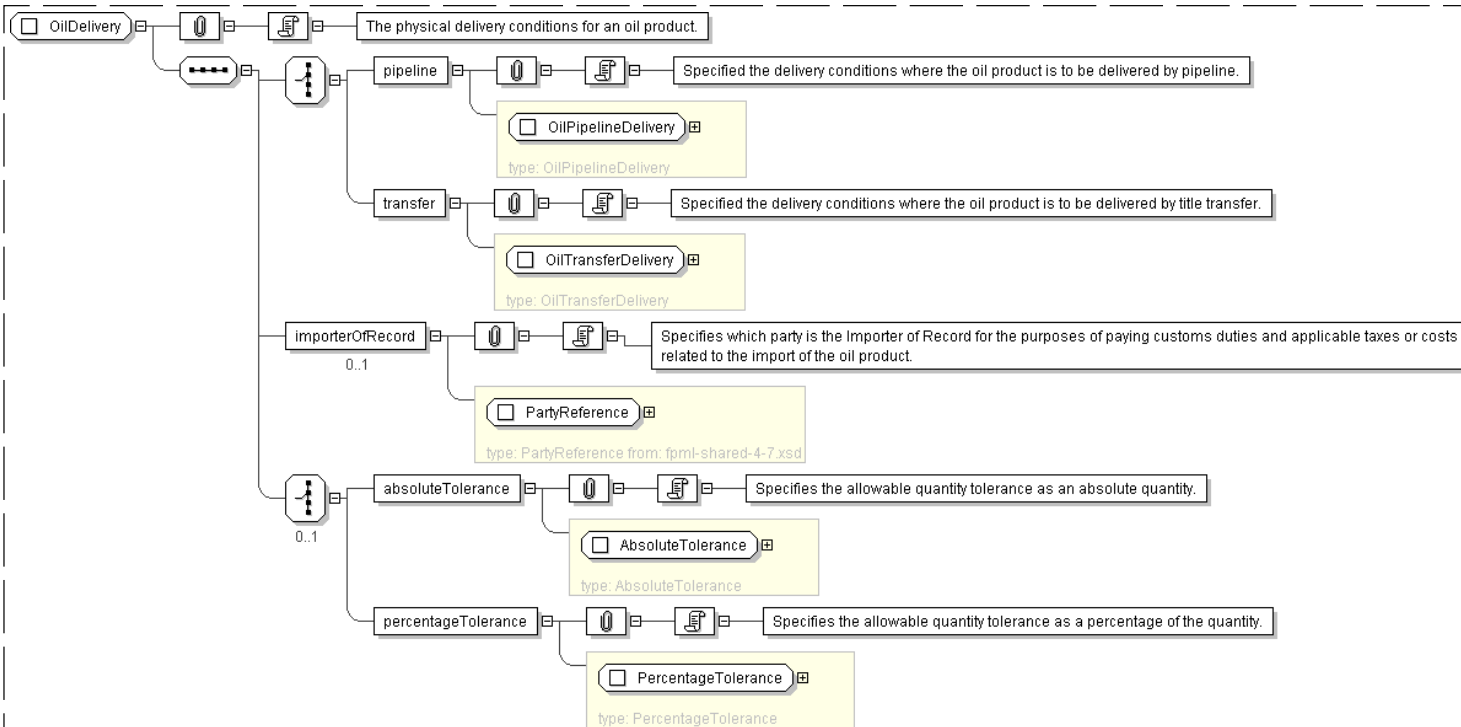
```
<percentageTolerance> PercentageTolerance </percentageTolerance> [1]
```

'Specifies the allowable quantity tolerance as a percentage of the quantity.'

End Choice

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="OilDelivery">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="pipeline" type="OilPipelineDelivery" />
      <xsd:element name="transfer" type="OilTransferDelivery" />
    </xsd:choice>
    <xsd:element name="importerOfRecord" type="PartyReference" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="absoluteTolerance" type="AbsoluteTolerance" />
      <xsd:element name="percentageTolerance" type="PercentageTolerance" />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
  
```

#### Complex Type: **OilPhysicalLeg**

Super-types: [Leg](#) < [PhysicalLeg](#) (by extension) < **OilPhysicalLeg** (by extension)

Sub-types:	None
Name	OilPhysicalLeg
Used by (from the same schema document)	Complex Type <a href="#">CommoditySwap</a>
Abstract	no
Documentation	Physically settled leg of a physically settled oil product transaction.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <deliveryPeriods> CommodityDeliveryPeriods </deliveryPeriods> [1]
  'The different options for specifying the Delivery or Supply Periods. Unless the quantity
  or price is to vary periodically during the trade or physical delivery occurs on a
  periodic basis, periodsSchedule should be used and set to IT.'

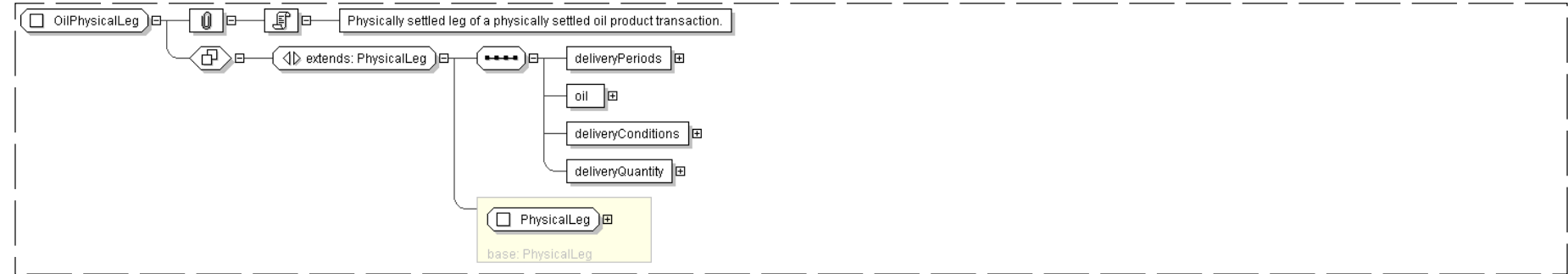
  <oil> OilProduct </oil> [1]
  'The specification of the oil product to be delivered.'

  <deliveryConditions> OilDelivery </deliveryConditions> [1]
  'The physical delivery conditions for the transaction.'

  <deliveryQuantity> CommodityPhysicalQuantity </deliveryQuantity> [1]
  'The different options for specifying the quantity.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OilPhysicalLeg">
  <xsd:complexContent>
    <xsd:extension base=" PhysicalLeg ">
      <xsd:sequence>
        <xsd:element name="deliveryPeriods" type=" CommodityDeliveryPeriods "/>
        <xsd:element name="oil" type=" OilProduct "/>
        <xsd:element name="deliveryConditions" type=" OilDelivery "/>
        <xsd:element name="deliveryQuantity" type=" CommodityPhysicalQuantity "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: OilPipelineDelivery

Super-types:	None
Sub-types:	None

Name	OilPipelineDelivery
Used by (from the same schema document)	Complex Type <a href="#">OilDelivery</a>
Abstract	no
Documentation	The physical delivery conditions specific to an oil product delivered by pipeline.

XML Instance Representation

```
<...>
  <pipelineName> CommodityPipeline </pipelineName> [1]
  'The name of pipeline by which the oil product will be delivered.'

  <withdrawalPoint> CommodityDeliveryPoint </withdrawalPoint> [0..1]
  'The location at which the transfer of the title to the commodity takes place.'

  <entryPoint> CommodityDeliveryPoint </entryPoint> [0..1]
  'The point at which the oil product will enter the pipeline.'

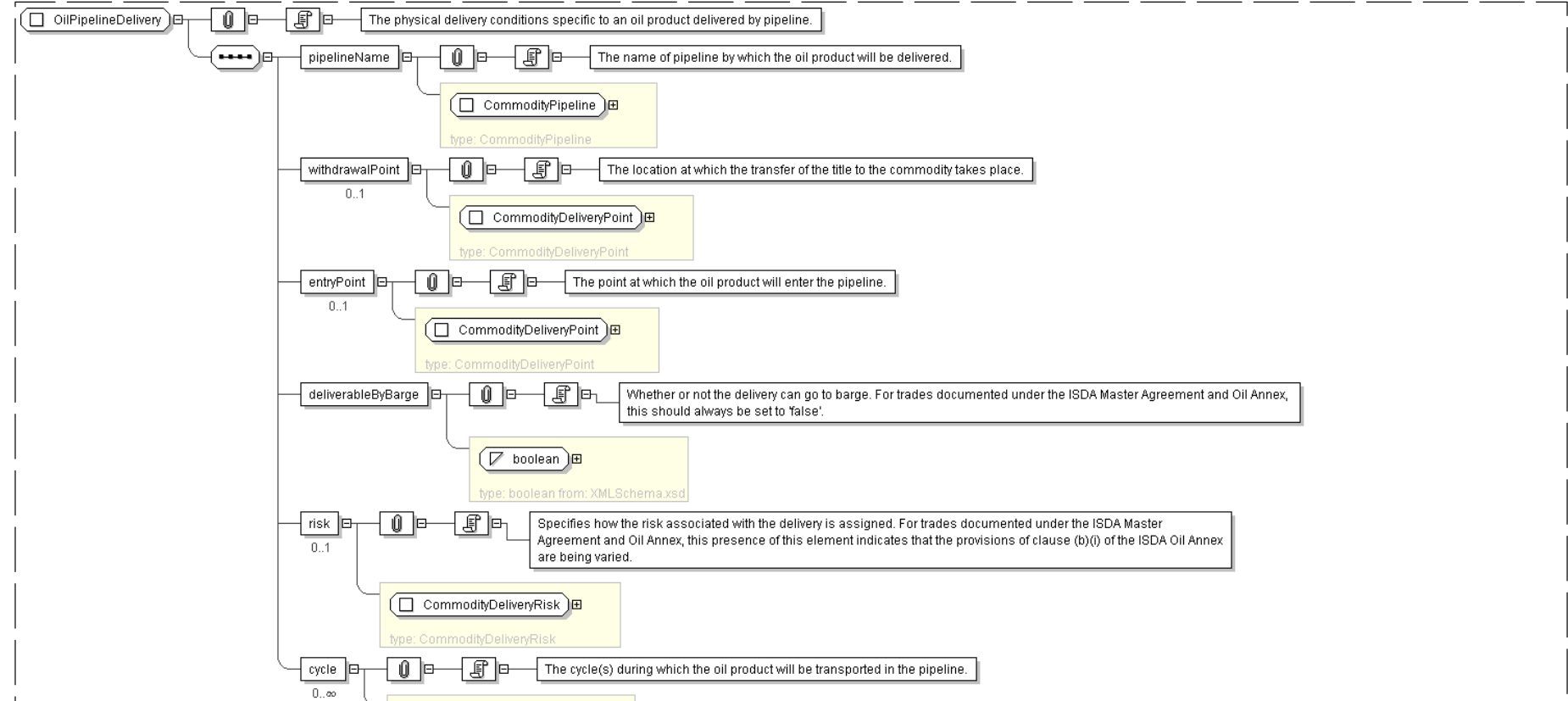
  <deliverableByBarge> xsd:boolean </deliverableByBarge> [1]
  'Whether or not the delivery can go to barge. For trades documented under the ISDA
  Master Agreement and Oil Annex, this should always be set to \'false\''.'

  <risk> CommodityDeliveryRisk </risk> [0..1]
  'Specifies how the risk associated with the delivery is assigned. For trades documented
  under the ISDA Master Agreement and Oil Annex, this presence of this element indicates that
  the provisions of clause (b)(i) of the ISDA Oil Annex are being varied.'

  <cycle> CommodityPipelineCycle </cycle> [0..*]
  'The cycle(s) during which the oil product will be transported in the pipeline.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="OilPipelineDelivery">
  <xsd:sequence>
    <xsd:element name="pipelineName" type=" CommodityPipeline " />
    <xsd:element name="withdrawalPoint" type=" CommodityDeliveryPoint " minOccurs="0"/>
    <xsd:element name="entryPoint" type=" CommodityDeliveryPoint " minOccurs="0"/>
    <xsd:element name="deliverableByBarge" type=" xsd:boolean " />
    <xsd:element name="risk" type=" CommodityDeliveryRisk " minOccurs="0"/>
    <xsd:element name="cycle" type=" CommodityPipelineCycle " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: OilProduct

Super-types:	None
Sub-types:	None
Name	OilProduct
Used by (from the same schema document)	Complex Type <a href="#">OilPhysicalLeg</a>
Abstract	no
Documentation	The specification of the oil product to be delivered.

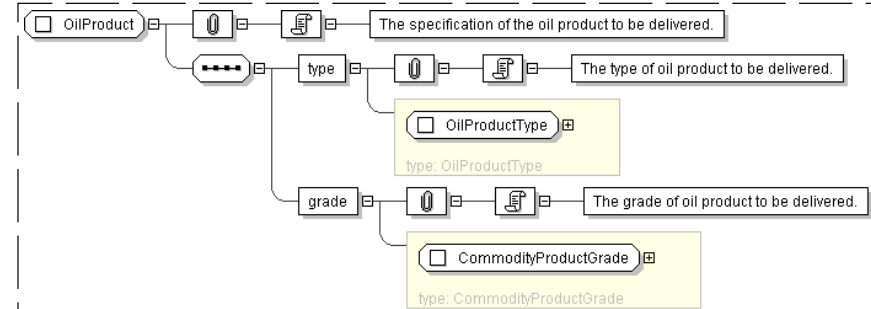
XML Instance Representation

```
<...>
  <type> OilProductType </type> [1]
  'The type of oil product to be delivered.'

  <grade> CommodityProductGrade </grade> [1]
  'The grade of oil product to be delivered.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OilProduct">
  <xsd:sequence>
    <xsd:element name="type" type=" OilProductType " />
    <xsd:element name="grade" type=" CommodityProductGrade " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: OilProductType

Super-types:	<a href="#">Scheme</a> < <b>OilProductType</b> (by extension)
Sub-types:	None

Name	OilProductType
Used by (from the same schema document)	Complex Type <a href="#">OilProduct</a>
Abstract	no
Documentation	The type of physical commodity product to be delivered.

XML Instance Representation

```
<...  
commodityOilProductTypeScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OilProductType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="commodityOilProductTypeScheme" type=" xsd:anyURI " default="http://  
        www.fpml.org/coding-scheme/commodity-oil-product-type"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **OilTransferDelivery**

Super-types:	None
Sub-types:	None

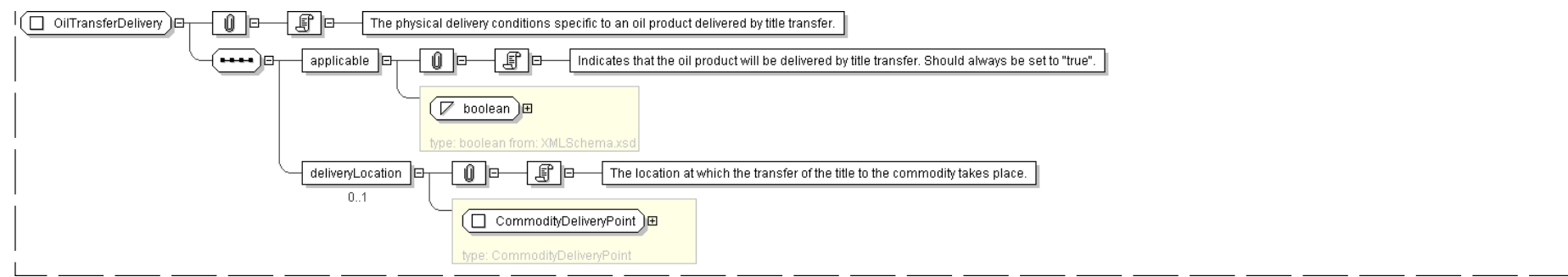
Name	OilTransferDelivery
Used by (from the same schema document)	Complex Type <a href="#">OilDelivery</a>
Abstract	no
Documentation	The physical delivery conditions specific to an oil product delivered by title transfer.

XML Instance Representation

```
<...>  
<applicable xsd:boolean </applicable> [1]  
  'Indicates that the oil product will be delivered by title transfer. Should always be set  
  to \"true\".'  
  
  <deliveryLocation> CommodityDeliveryPoint </deliveryLocation> [0..1]  
  'The location at which the transfer of the title to the commodity takes place.'  
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="OilTransferDelivery">
  <xsd:sequence>
    <xsd:element name="applicable" type="xsd:boolean" />
    <xsd:element name="deliveryLocation" type="CommodityDeliveryPoint" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PercentageTolerance**

Super-types:	None
Sub-types:	None
Name	PercentageTolerance
Used by (from the same schema document)	Complex Type <a href="#">OilDelivery</a>
Abstract	no
Documentation	The acceptable tolerance in the delivered quantity of a physical commodity product in terms of a percentage of the agreed delivery quantity.

XML Instance Representation

```
<...>
  <positive> RestrictedPercentage </positive> [1]
  'The maximum percentage amount by which the quantity delivered can exceed the agreed quantity.'

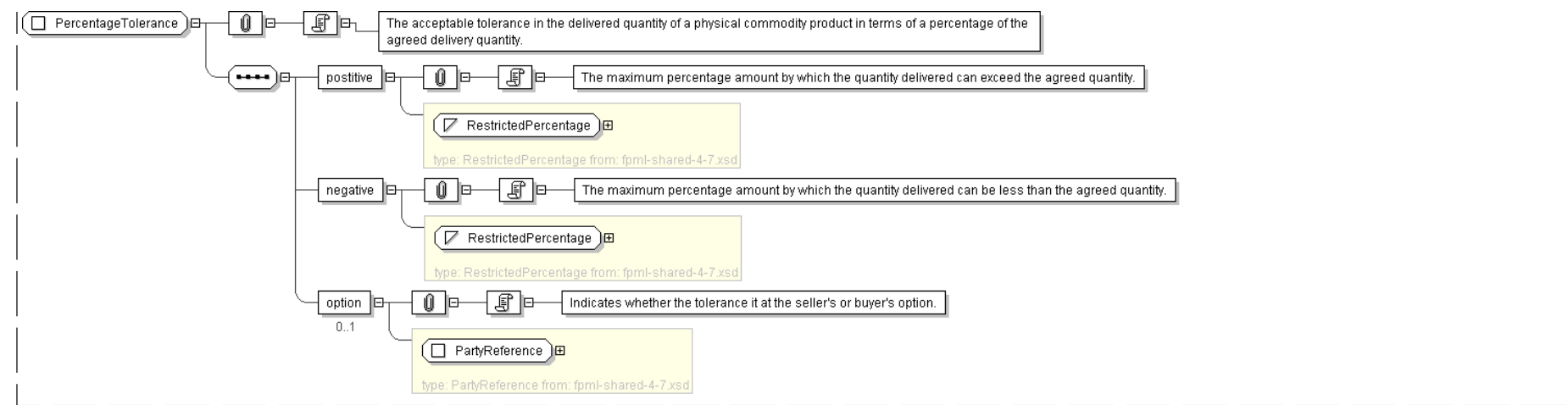
  <negative> RestrictedPercentage </negative> [1]
  'The maximum percentage amount by which the quantity delivered can be less than the agreed quantity.'

  <option> PartyReference </option> [0..1]
  'Indicates whether the tolerance it at the seller\'s or buyer\'s option.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="PercentageTolerance">
  <xsd:sequence>
    <xsd:element name="positive" type="RestrictedPercentage" />
    <xsd:element name="negative" type="RestrictedPercentage" />
    <xsd:element name="option" type="PartyReference" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PhysicalLeg**

Super-types:	<a href="#">Leg</a> < <b>PhysicalLeg</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">BullionPhysicalLeg</a> (by extension)</li><li><a href="#">CoalPhysicalLeg</a> (by extension)</li><li><a href="#">ElectricityPhysicalLeg</a> (by extension)</li><li><a href="#">GasPhysicalLeg</a> (by extension)</li><li><a href="#">OilPhysicalLeg</a> (by extension)</li></ul>

Name	PhysicalLeg
Abstract	yes
Documentation	The common components of a physically settled leg of a Commodity Swap. This is an abstract type and should be extended by commodity-specific types.

XML Instance Representation

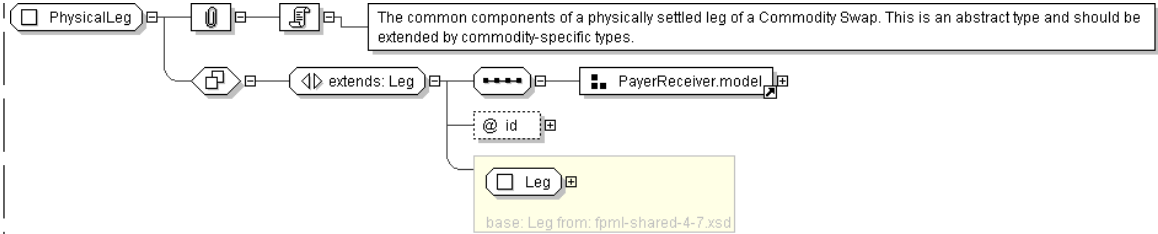
```
<...
  id="xsd:ID [0..1]">
    <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
    'A reference to the party responsible for making the payments defined by this structure.'

    <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
    'A reference to the party that receives the payments corresponding to this structure.'

  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="PhysicalLeg" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="Leg" />
    <xsd:sequence>
      <xsd:group ref="PayerReceiver.model" />
    </xsd:sequence>
    <xsd:attribute name="id" type="xsd:ID" />
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **QuantityReference**

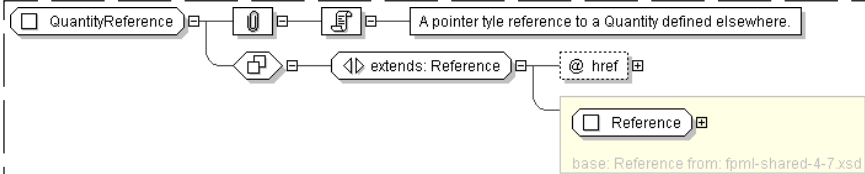
Super-types:	<a href="#">Reference</a> < <b>QuantityReference</b> (by extension)
Sub-types:	None

Name	QuantityReference
Used by (from the same schema document)	Complex Type <a href="#">NonPeriodicFixedPriceLeg</a> , Model Group <a href="#">CommodityNotionalQuantity.model</a>
Abstract	no
Documentation	A pointer tyle reference to a Quantity defined elsewhere.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuantityReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" />
    <xsd:attribute name="href" type="xsd:IDREF"
      use="required" reference="CommodityPhysicalQuantityBase"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **QuantityScheduleReference**

Super-types:	<a href="#">Reference</a> < <b>QuantityScheduleReference</b> (by extension)
Sub-types:	None

Name	QuantityScheduleReference
Abstract	no
Documentation	A pointer tyle reference to a Quantity schedule defined elsewhere.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]" />  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuantityScheduleReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " />  
    <xsd:attribute name="href" type=" xsd:IDREF " />  
    <xsd:attribute name="use" type="xsd:string" value="required" />  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **SequencedDisruptionFallback**

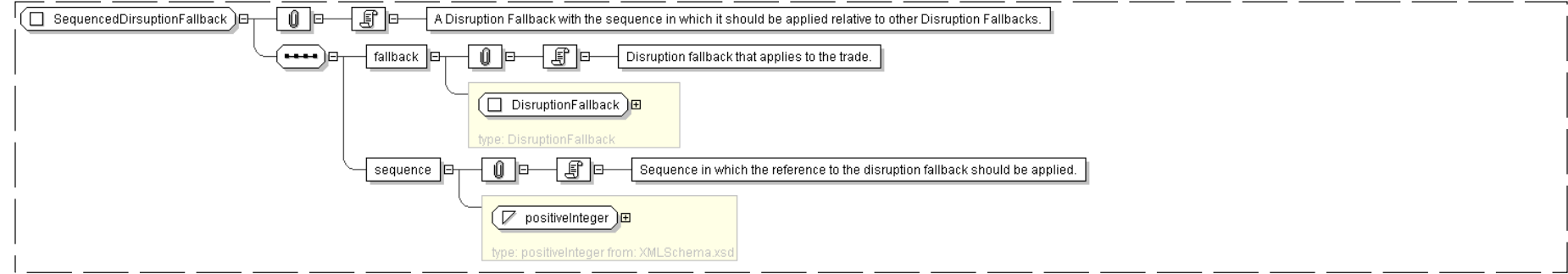
Super-types:	None
Sub-types:	None

Name	SequencedDisruptionFallback
Used by (from the same schema document)	Complex Type <a href="#">CommodityMarketDisruption</a>
Abstract	no
Documentation	A Disruption Fallback with the sequence in which it should be applied relative to other Disruption Fallbacks.

XML Instance Representation

```
<...>  
  <fallback> DisruptionFallback </fallback> [1]  
  'Disruption fallback that applies to the trade.'  
  
  <sequence> xsd:positiveInteger </sequence> [1]  
  'Sequence in which the reference to the disruption fallback should be applied.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SequencedDisruptionFallback">
  <xsd:sequence>
    <xsd:element name="fallback" type="DisruptionFallback" />
    <xsd:element name="sequence" type="xsd:positiveInteger" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **SettlementPeriods**

Super-types:	None
Sub-types:	None
Name	SettlementPeriods
Used by (from the same schema document)	Complex Type <a href="#">CommodityPricingDates</a> , Complex Type <a href="#">ElectricityDeliveryPeriods</a> , Complex Type <a href="#">ElectricityPhysicalLeg</a>
Abstract	no
Documentation	Specifies a set of Settlement Periods associated with an Electricity Transaction for delivery on an Applicable Day or for a series of Applicable Days.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <duration> SettlementPeriodDurationEnum </duration> [1]
  'The length of each Settlement Period.'

  <applicableDay> DayOfWeekEnum </applicableDay> [0..7]
  'Specifies the Applicable Day with respect to a range of Settlement Periods. This element
  can only be omitted if includesHolidays is present, in which case this range of
  Settlement Periods will apply to days that are holidays only.'

  <startTime> OffsetPrevailingTime </startTime> [1]
  'Specifies the hour-ending Start Time with respect to a range of Settlement Periods.'

  <endTime> OffsetPrevailingTime </endTime> [1]
  'Specifies the hour-ending End Time with respect to a range of Settlement Periods. If
  neither startTime nor endTime contain an offset element and endTime is earlier than
  startTime, this indicates that the time period \"wraps around\" midnight. For example,
  if startTime is 23:00 and endTime is 01:00 then Settlement Periods apply from 00:00 to
  01:00 and 23:00 to 00:00 on each included day.'

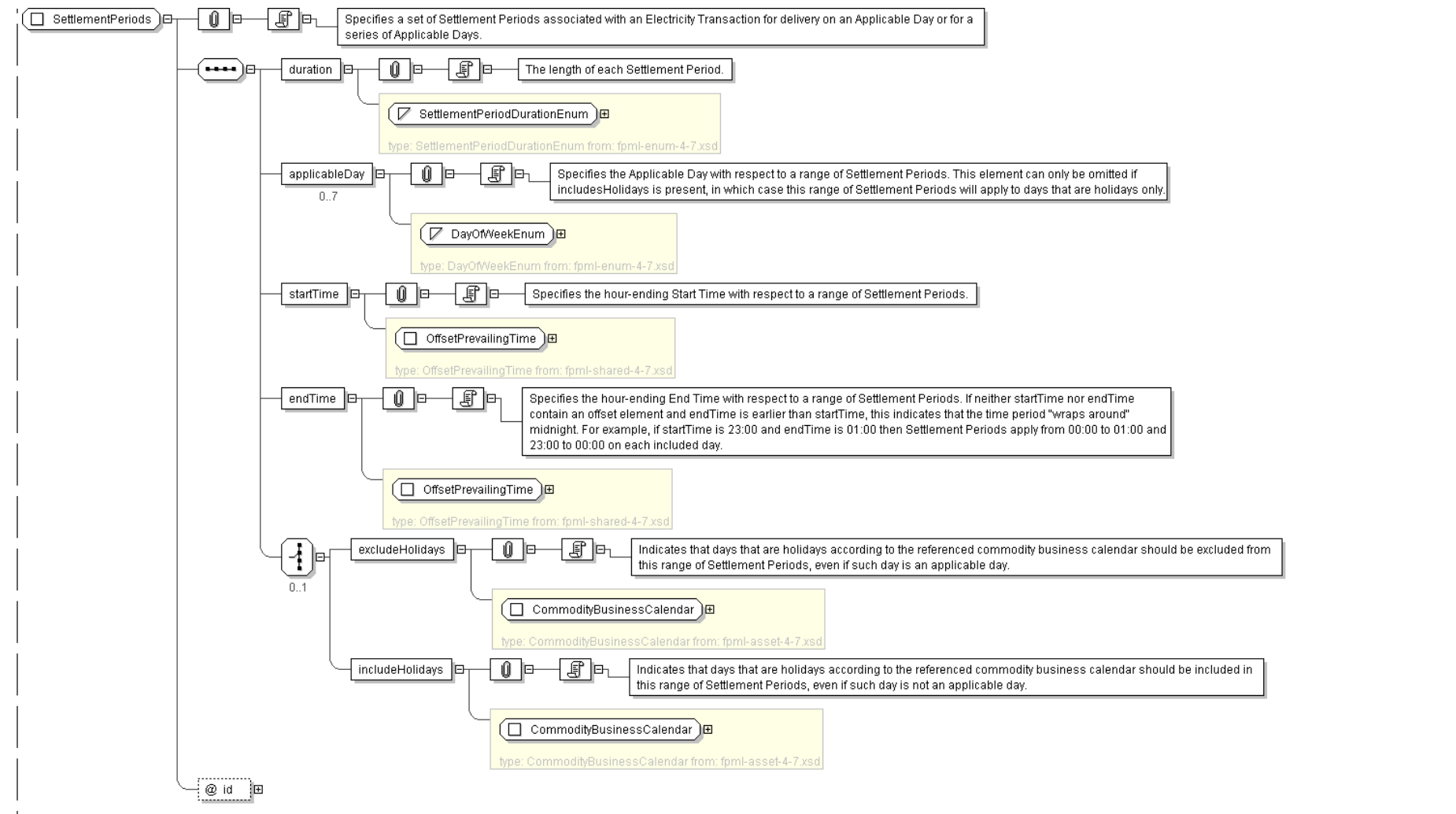
  Start Choice [0..1]
  <excludeHolidays> CommodityBusinessCalendar </excludeHolidays> [1]
  'Indicates that days that are holidays according to the referenced commodity business
  calendar should be excluded from this range of Settlement Periods, even if such day is
  an applicable day.'

  <includeHolidays> CommodityBusinessCalendar </includeHolidays> [1]
  'Indicates that days that are holidays according to the referenced commodity business
  calendar should be included in this range of Settlement Periods, even if such day is not
  an applicable day.'

  End Choice
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="SettlementPeriods">
  <xsd:sequence>
    <xsd:element name="duration" type="SettlementPeriodDurationEnum" />
    <xsd:element name="applicableDay" type="DayOfWeekEnum" minOccurs="0" maxOccurs="7" />
    <xsd:element name="startTime" type="OffsetPrevailingTime" />
    <xsd:element name="endTime" type="OffsetPrevailingTime" />
    <xsd:choice minOccurs="0">
      <xsd:element name="excludeHolidays" type="CommodityBusinessCalendar" />
      <xsd:element name="includeHolidays" type="CommodityBusinessCalendar" />
    </xsd:choice>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **SettlementPeriodsFixedPrice**

Super-types:	<a href="#">FixedPrice</a> < <b>SettlementPeriodsFixedPrice</b> (by extension)
Sub-types:	None

Name	SettlementPeriodsFixedPrice
Used by (from the same schema document)	Model Group <a href="#">CommodityFixedPrice.model</a>
Abstract	no
Documentation	A type defining the Fixed Price applicable to a range or ranges of Settlement Periods.

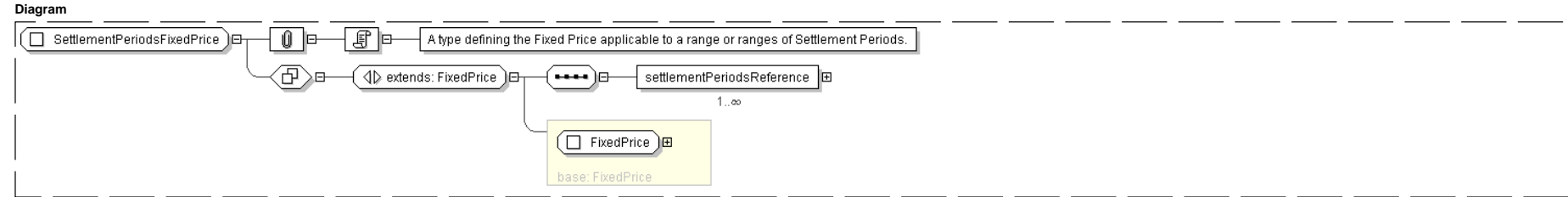
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<price> xsd:decimal </price> [1]
  'The Fixed Price.'

<priceCurrency> Currency </priceCurrency> [1]
  'Currency of the fixed price.'

<priceUnit> QuantityUnit </priceUnit> [1]
  'The unit of measure used to calculate the Fixed Price.'

<settlementPeriodsReference> SettlementPeriodsReference </settlementPeriodsReference> [1..*]
</...>
```



Schema Component Representation

```
<xsd:complexType name="SettlementPeriodsFixedPrice">
  <xsd:complexContent>
    <xsd:extension base=" FixedPrice ">
      <xsd:sequence>
        <xsd:element name="settlementPeriodsReference" type=" SettlementPeriodsReference"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **SettlementPeriodsReference**

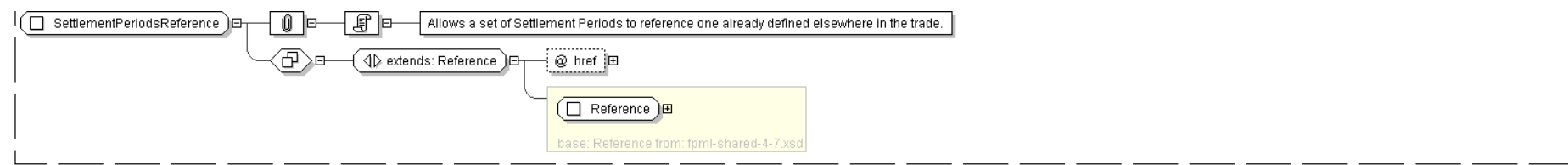
Super-types:	<a href="#">Reference</a> < <b>SettlementPeriodsReference</b> (by extension)
Sub-types:	None

Name	SettlementPeriodsReference
Used by (from the same schema document)	Complex Type <a href="#">CommodityPricingDates</a> , Complex Type <a href="#">CommoditySettlementPeriodsNotionalQuantity</a> , Complex Type <a href="#">CommoditySettlementPeriodsNotionalQuantitySchedule</a> , Complex Type <a href="#">CommoditySettlementPeriodsPriceSchedule</a> , Complex Type <a href="#">ElectricityPhysicalDeliveryQuantity</a> , Complex Type <a href="#">ElectricityPhysicalDeliveryQuantitySchedule</a> , Complex Type <a href="#">SettlementPeriodsFixedPrice</a> , Complex Type <a href="#">SettlementPeriodsStep</a>
Abstract	no
Documentation	Allows a set of Settlement Periods to reference one already defined elsewhere in the trade.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementPeriodsReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="SettlementPeriods"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: SettlementPeriodsSchedule

Super-types:	None
Sub-types:	None
Name	SettlementPeriodsSchedule
Used by (from the same schema document)	Complex Type ElectricityPhysicalLeg
Abstract	no
Documentation	The specification of the Settlement Periods in which the electricity will be delivered for a "shaped" trade i.e. where different Settlement Period ranges will apply to different periods of the trade.

XML Instance Representation

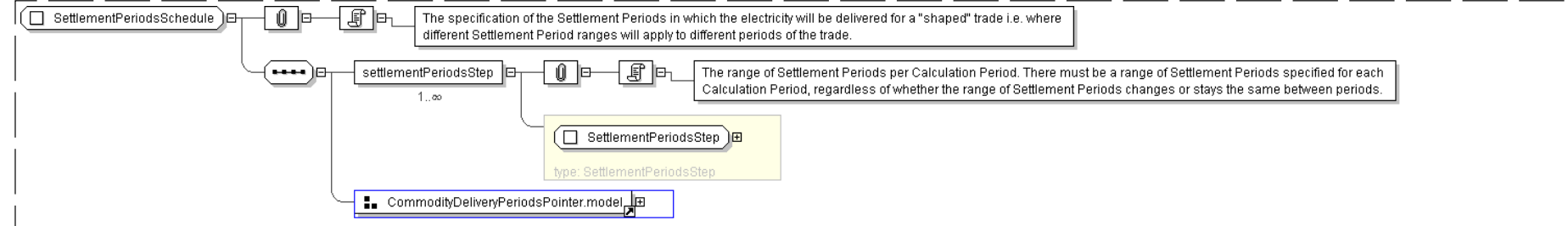
```
<...>
  <settlementPeriodsStep> SettlementPeriodsStep </settlementPeriodsStep> [1..*]
  'The range of Settlement Periods per Calculation Period. There must be a range of Settlement Periods specified for each Calculation Period, regardless of whether the range of Settlement Periods changes or stays the same between periods.'

  Start Choice [1]
    <deliveryPeriodsReference> CalculationPeriodsReference </deliveryPeriodsReference> [1]
    'A pointer style reference to the Delivery Periods defined elsewhere.'

    <deliveryPeriodsScheduleReference> CalculationPeriodsScheduleReference
  </deliveryPeriodsScheduleReference> [1]
  'A pointer style reference to the Calculation Periods Schedule defined elsewhere.'

  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementPeriodsSchedule">
  <xsd:sequence>
    <xsd:element name="settlementPeriodsStep" type="SettlementPeriodsStep" maxOccurs="unbounded"/>
    <xsd:group ref="CommodityDeliveryPeriodsPointer.model"/>
  </xsd:sequence>
</xsd:complexType>
```

```
</xsd:sequence>
</xsd:complexType>
```

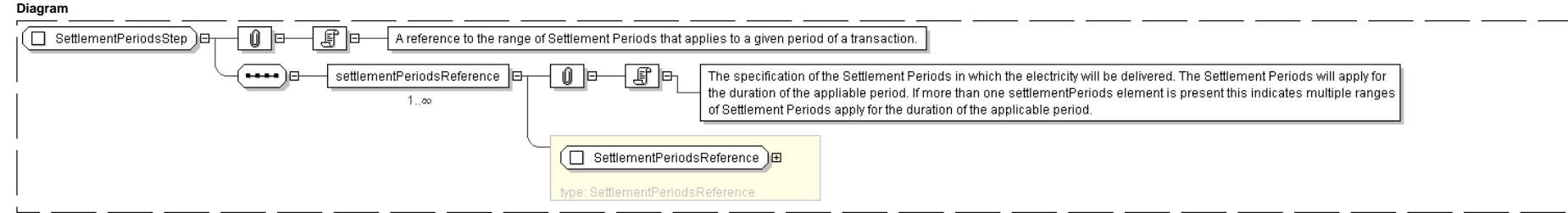
[top](#)

Complex Type: **SettlementPeriodsStep**

Super-types:	None
Sub-types:	None
Name	SettlementPeriodsStep
Used by (from the same schema document)	Complex Type <a href="#">SettlementPeriodsSchedule</a>
Abstract	no
Documentation	A reference to the range of Settlement Periods that applies to a given period of a transaction.

XML Instance Representation

<...>  
<settlementPeriodsReference> [SettlementPeriodsReference](#) </settlementPeriodsReference> [1..\*]  
'The specification of the Settlement Periods in which the electricity will be delivered. The Settlement Periods will apply for the duration of the applicable period. If more than one settlementPeriods element is present this indicates multiple ranges of Settlement Periods apply for the duration of the applicable period.'  
</...>



Schema Component Representation

<xsd:complexType name="SettlementPeriodsStep">  
 <xsd:sequence>  
 <xsd:element name="settlementPeriodsReference" type=" [SettlementPeriodsReference](#)  
 " maxOccurs="unbounded"/>  
 </xsd:sequence>  
</xsd:complexType>

[top](#)

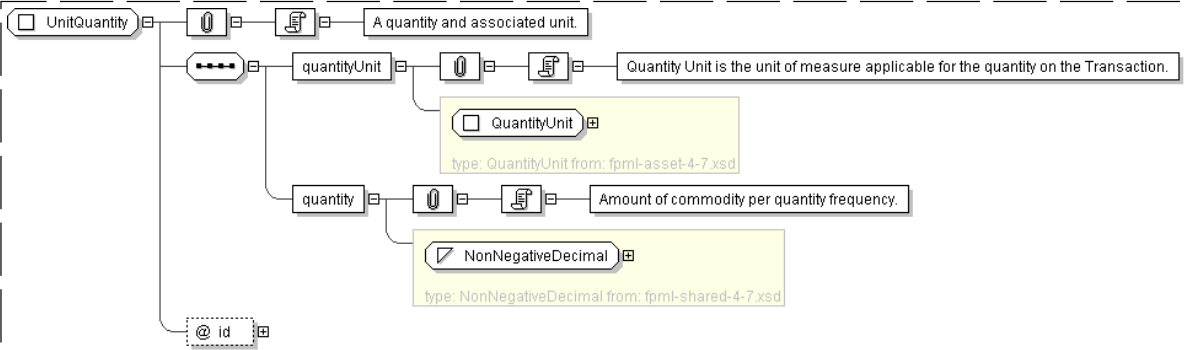
Complex Type: **UnitQuantity**

Super-types:	None
Sub-types:	None
Name	UnitQuantity
Used by (from the same schema document)	Complex Type <a href="#">ElectricityPhysicalQuantity</a> , Model Group <a href="#">CommodityFixedPhysicalQuantity.model</a>
Abstract	no
Documentation	A quantity and associated unit.

XML Instance Representation

<...  
id=" [xsd:ID](#) [0..1]\*">  
 <quantityUnit> [QuantityUnit](#) </quantityUnit> [1]  
 'Quantity Unit is the unit of measure applicable for the quantity on the Transaction.'  
 <quantity> [NonNegativeDecimal](#) </quantity> [1]  
 'Amount of commodity per quantity frequency.'  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="UnitQuantity">
  <xsd:sequence>
    <xsd:element name="quantityUnit" type=" QuantityUnit " />
    <xsd:element name="quantity" type=" NonNegativeDecimal " />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Model Group: **CommodityAsian.model**

Name	CommodityAsian.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityOption</a>
Documentation	Model group containing features specific to asian/averaging commodity options.

XML Instance Representation

```
<effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
'The effective date of the Commodity Option Transaction. Note that the Termination/
Expiration Date should be specified in expirationDate within the CommodityAmericanExercise
type or the CommodityEuropeanExercise type, as applicable.'
```

Start Choice [1]

```
<calculationPeriodsSchedule> CommodityCalculationPeriodsSchedule </
calculationPeriodsSchedule> [1]
'A parametric representation of the Calculation Periods of the Commodity Option Transaction.'
```

```
<calculationPeriods> AdjustableDates </calculationPeriods> [1]
'An absolute representation of the Calculation Period start dates of the Commodity
Option Transaction.'
```

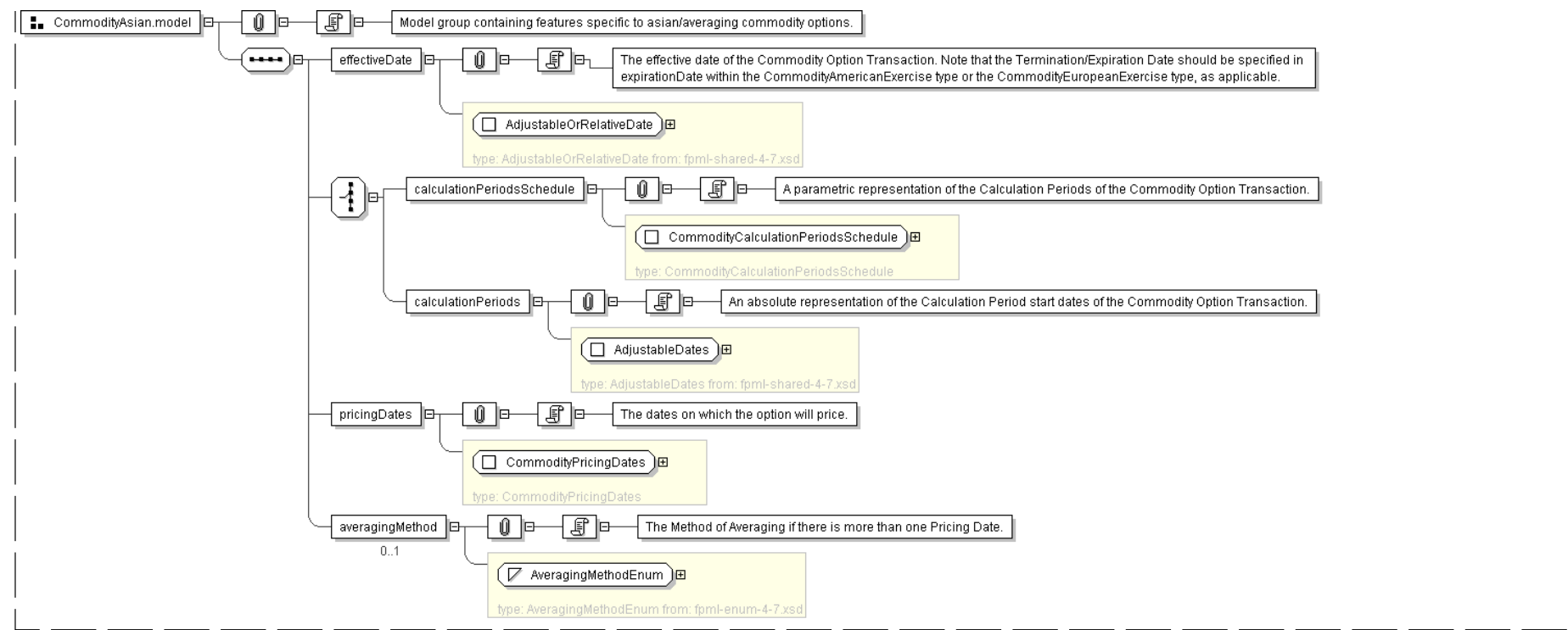
End Choice

```
<pricingDates> CommodityPricingDates </pricingDates> [1]
'The dates on which the option will price.'
```

```
<averagingMethod> AveragingMethodEnum </averagingMethod> [0..1]
'The Method of Averaging if there is more than one Pricing Date.'
```

Diagram





Schema Component Representation

```
<xsd:group name="CommodityAsian.model">
  <xsd:sequence>
    <xsd:element name="effectiveDate" type=" AdjustableOrRelativeDate " />
    <xsd:choice>
      <xsd:element name="calculationPeriodsSchedule" type=" CommodityCalculationPeriodsSchedule " />
      <xsd:element name="calculationPeriods" type=" AdjustableDates " />
    </xsd:choice>
    <xsd:element name="pricingDates" type=" CommodityPricingDates " />
    <xsd:element name="averagingMethod" type=" AveragingMethodEnum " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: CommodityCalculationPeriods.model

Name	CommodityCalculationPeriods.model
Used by (from the same schema document)	Complex Type <a href="#">FixedPriceLeg</a> , Complex Type <a href="#">FloatingPriceLeg</a>
Documentation	The different options for specifying the Calculation Periods.

XML Instance Representation

```
Start Choice [1]
<calculationPeriods> AdjustableDates </calculationPeriods> [1]

'The Calculation Period start dates for this leg of the swap. This type is only intended to
be used if the Calculation Periods differ on each leg. If Calculation Periods mirror
another leg, then the calculationPeriodsReference element should be used to point to
the Calculation Periods on that leg - or the calculationPeriodsScheduleReference can be used
to point to the Calculation Periods Schedule for that leg.'

<calculationPeriodsSchedule> CommodityCalculationPeriodsSchedule </
calculationPeriodsSchedule> [1]

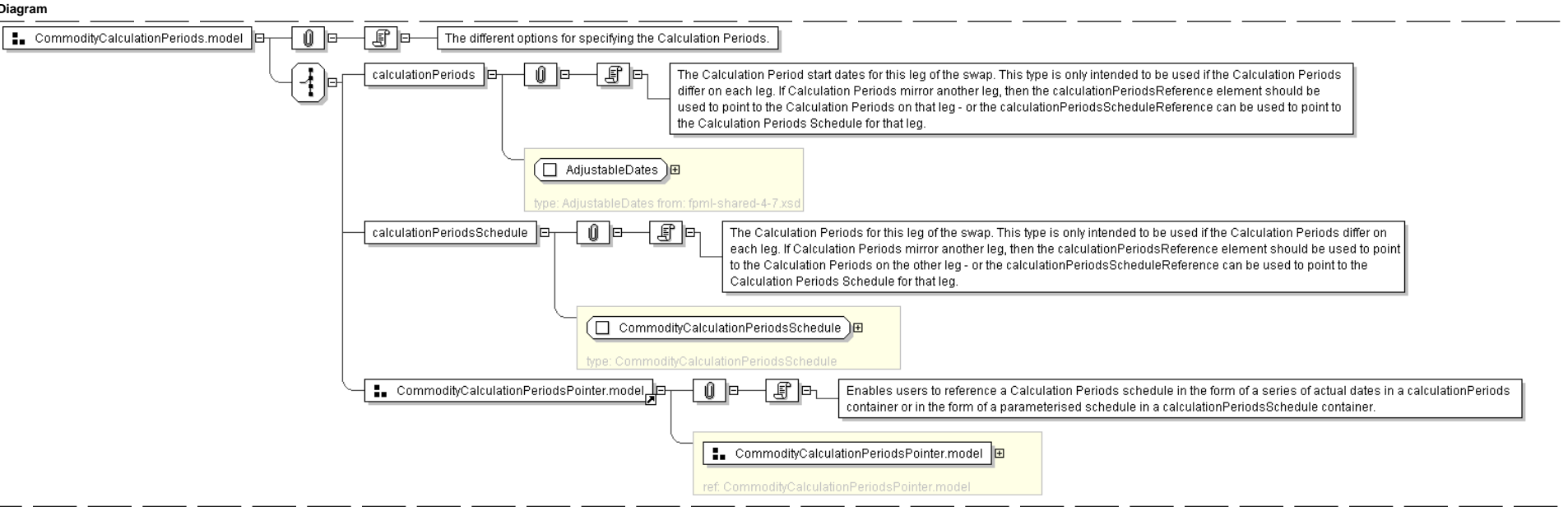
'The Calculation Periods for this leg of the swap. This type is only intended to be used if
the Calculation Periods differ on each leg. If Calculation Periods mirror another leg, then
the calculationPeriodsReference element should be used to point to the Calculation Periods
on the other leg - or the calculationPeriodsScheduleReference can be used to point to
```

```
the Calculation Periods Schedule for that leg.'
```

```
Start Choice [1]
<calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
'A pointer style reference to the Calculation Periods defined on another leg.'
```

```
<calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
</calculationPeriodsScheduleReference> [1]
'A pointer style reference to the Calculation Periods Schedule defined on another leg.'
```

```
End Choice
End Choice
```



Schema Component Representation

```
<xsd:group name="CommodityCalculationPeriods.model">
  <xsd:choice>
    <xsd:element name="calculationPeriods" type=" AdjustableDates  "/>
    <xsd:element name="calculationPeriodsSchedule" type=" CommodityCalculationPeriodsSchedule  "/>
    <xsd:group ref=" CommodityCalculationPeriodsPointer.model  "/>
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityCalculationPeriodsPointer.model**

Name	CommodityCalculationPeriodsPointer.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityDeliveryPeriods</a> , Complex Type <a href="#">CommodityFixedPriceSchedule</a> , Complex Type <a href="#">CommodityFx</a> , Complex Type <a href="#">CommodityNotionalQuantitySchedule</a> , Complex Type <a href="#">CommodityPricingDates</a> , Complex Type <a href="#">CommodityRelativePaymentDates</a> , Complex Type <a href="#">CommoditySpreadSchedule</a> , Complex Type <a href="#">CommodityStrikeSchedule</a> , Model Group <a href="#">CommodityCalculationPeriods.model</a>
Documentation	Model group to enable users to reference a Calculation Periods schedule in the form of a series of actual dates in a calculationPeriods container or in the form of a parameterised schedule in a calculationPeriodsSchedule container.

XML Instance Representation

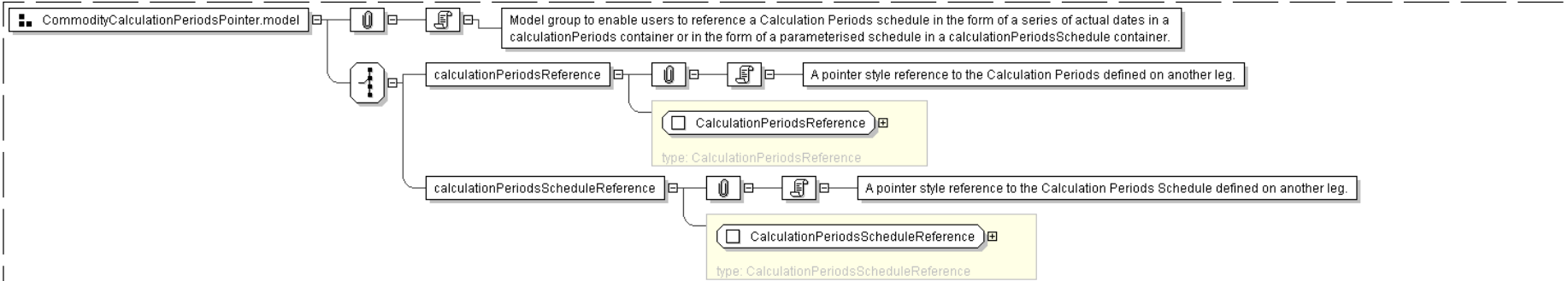
```
Start Choice [1]
<calculationPeriodsReference> CalculationPeriodsReference </calculationPeriodsReference> [1]
'A pointer style reference to the Calculation Periods defined on another leg.'
```

```
<calculationPeriodsScheduleReference> CalculationPeriodsScheduleReference
```

```
</calculationPeriodsScheduleReference> [1]
'A pointer style reference to the Calculation Periods Schedule defined on another leg.'
```

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="CommodityCalculationPeriodsPointer.model">
  <xsd:choice>
    <xsd:element name="calculationPeriodsReference" type="CalculationPeriodsReference" />
    <xsd:element name="calculationPeriodsScheduleReference"
      type="CalculationPeriodsScheduleReference" />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityCoalComposition.model**

Name	CommodityCoalComposition.model
Used by (from the same schema document)	Complex Type <a href="#">CoalStandardQuality</a>
Documentation	Items defining the chemical composition of the coal product.

XML Instance Representation

```
<moisture> CoalAttributePercentage </moisture> [0..1]
'The moisture content of the coal product.'
```

...

```
<ash> CoalAttributePercentage </ash> [0..1]
'The ash content of the coal product.'
```

...

```
<sulfur> CoalAttributePercentage </sulfur> [0..1]
'The sulfur/sulphur content of the coal product.'
```

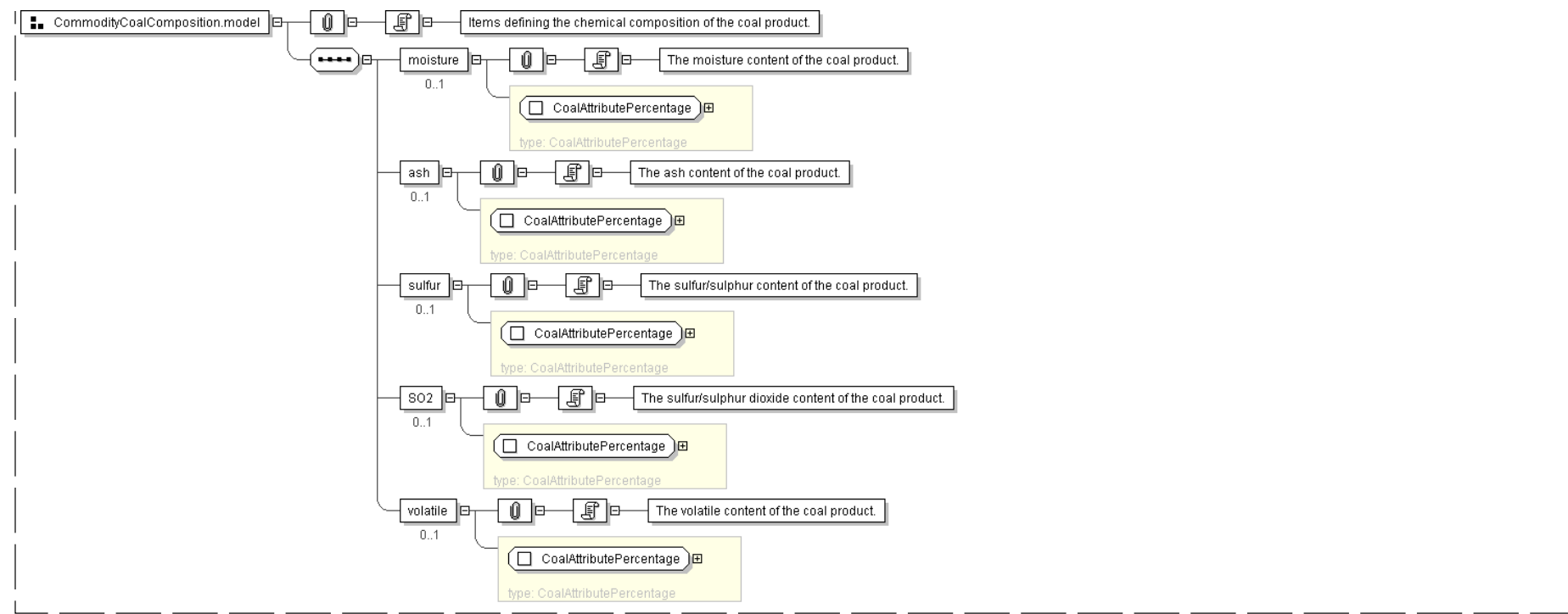
...

```
<SO2> CoalAttributePercentage </SO2> [0..1]
'The sulfur/sulphur dioxide content of the coal product.'
```

...

```
<volatile> CoalAttributePercentage </volatile> [0..1]
'The volatile content of the coal product.'
```

Diagram



Schema Component Representation

```
<xsd:group name="CommodityCoalComposition.model">
  <xsd:sequence>
    <xsd:element name="moisture" type="CoalAttributePercentage" minOccurs="0"/>
    <xsd:element name="ash" type="CoalAttributePercentage" minOccurs="0"/>
    <xsd:element name="sulfur" type="CoalAttributePercentage" minOccurs="0"/>
    <xsd:element name="SO2" type="CoalAttributePercentage" minOccurs="0"/>
    <xsd:element name="volatile" type="CoalAttributePercentage" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityCoalProperties.model**

Name	CommodityCoalProperties.model
Used by (from the same schema document)	Complex Type <a href="#">CoalStandardQuality</a>
Documentation	Items defining the physical attributes of the coal product.

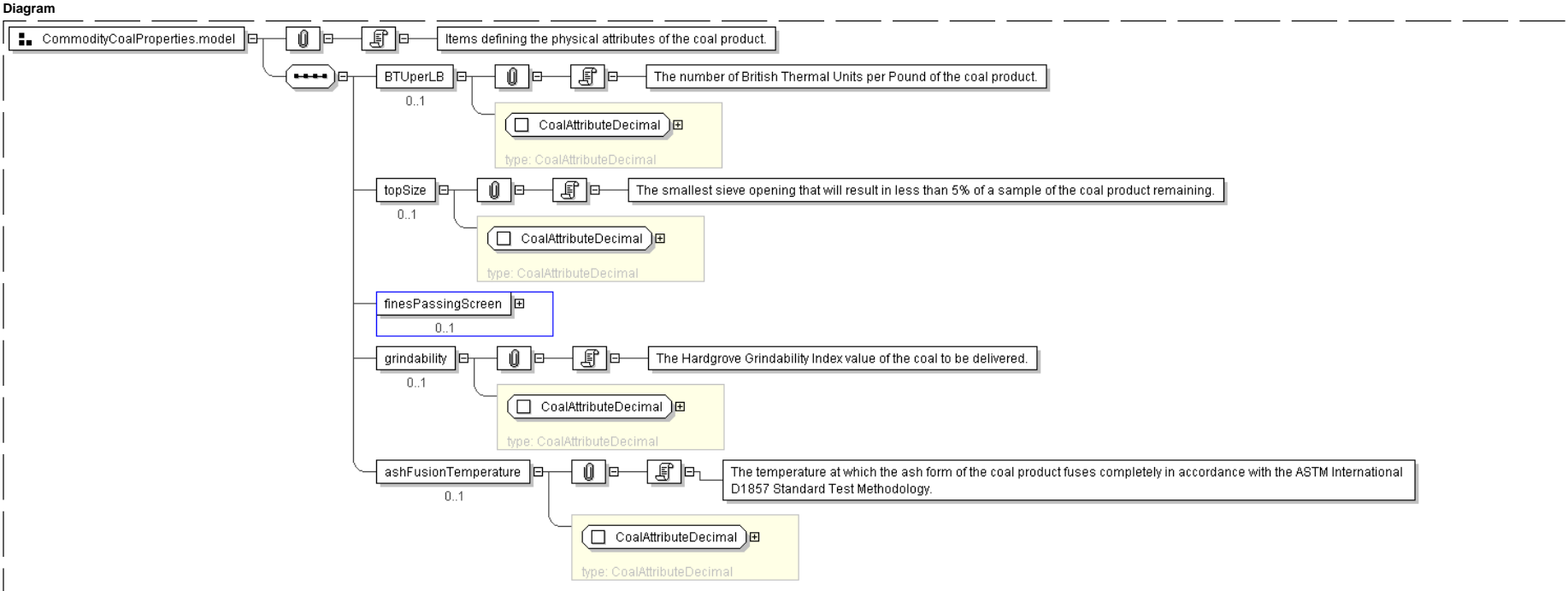
XML Instance Representation

```
<BTUperLB> CoalAttributeDecimal </BTUperLB> [0..1]
'The number of British Thermal Units per Pound of the coal product.'

<topSize> CoalAttributeDecimal </topSize> [0..1]
'The smallest sieve opening that will result in less than 5% of a sample of the coal product remaining.'

<finesPassingScreen> CoalAttributeDecimal </finesPassingScreen> [0..1]
<grindability> CoalAttributeDecimal </grindability> [0..1]
'The Hardgrove Grindability Index value of the coal to be delivered.'

<ashFusionTemperature> CoalAttributeDecimal </ashFusionTemperature> [0..1]
'The temperature at which the ash form of the coal product fuses completely in accordance with the ASTM International D1857 Standard Test Methodology.'
```



Schema Component Representation

```
<xsd:group name="CommodityCoalProperties.model">
  <xsd:sequence>
    <xsd:element name="BTUperLB" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="topSize" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="finesPassingScreen" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="grindability" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="ashFusionTemperature" type="CoalAttributeDecimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

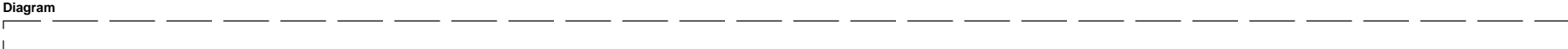
Model Group: CommodityCoalReducingAtmosphere.model

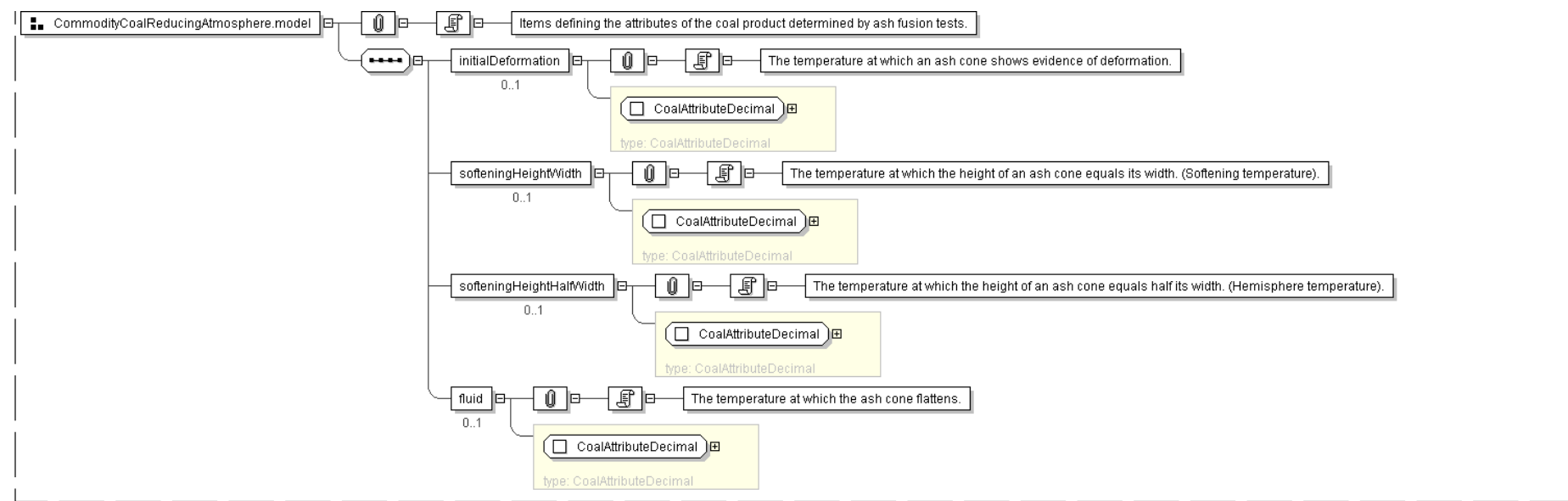
Name	CommodityCoalReducingAtmosphere.model
Used by (from the same schema document)	Complex Type <a href="#">CoalStandardQuality</a>
Documentation	Items defining the attributes of the coal product determined by ash fusion tests.

XML Instance Representation

```
<initialDeformation> CoalAttributeDecimal </initialDeformation> [0..1]
'The temperature at which an ash cone shows evidence of deformation.'

<softeningHeightWidth> CoalAttributeDecimal </softeningHeightWidth> [0..1]
'The temperature at which the height of an ash cone equals its width. (Softening temperature).'
```





Schema Component Representation

```
<xsd:group name="CommodityCoalReducingAtmosphere.model">
  <xsd:sequence>
    <xsd:element name="initialDeformation" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="softeningHeightWidth" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="softeningHeightHalfWidth" type="CoalAttributeDecimal" minOccurs="0"/>
    <xsd:element name="fluid" type="CoalAttributeDecimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityContent.model**

Name	CommodityContent.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityForward</a> , Complex Type <a href="#">CommodityOption</a> , Complex Type <a href="#">CommoditySwap</a>
Documentation	Items common to all Commodity Transactions.

XML Instance Representation

```
<commonPricing> xsd:boolean </commonPricing> [0..1]
'Common pricing may be relevant for a Transaction that references more than one
Commodity Reference Price. If Common Pricing is not specified as applicable, it will be
deemed not to apply.'
```

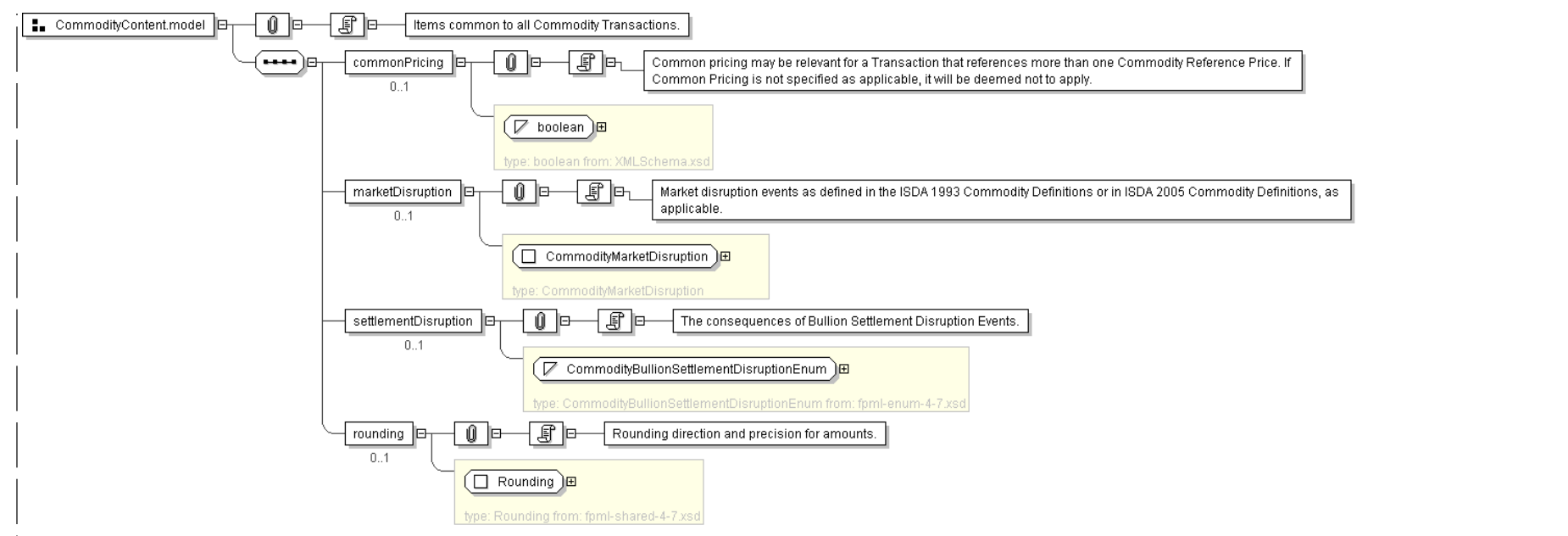
```
<marketDisruption> CommodityMarketDisruption </marketDisruption> [0..1]
'Market disruption events as defined in the ISDA 1993 Commodity Definitions or in ISDA
2005 Commodity Definitions, as applicable.'
```

```
<settlementDisruption> CommodityBullionSettlementDisruptionEnum </settlementDisruption> [0..1]
'The consequences of Bullion Settlement Disruption Events.'
```

```
<rounding> Rounding </rounding> [0..1]
'Rounding direction and precision for amounts.'
```

Diagram





Schema Component Representation

```
<xsd:group name="CommodityContent.model">
  <xsd:sequence>
    <xsd:element name="commonPricing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="marketDisruption" type="CommodityMarketDisruption" minOccurs="0"/>
    <xsd:element name="settlementDisruption" type="CommodityBullionSettlementDisruptionEnum" minOccurs="0"/>
    <xsd:element name="rounding" type="Rounding" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityDeliveryPeriodsPointer.model**

Name	CommodityDeliveryPeriodsPointer.model
Used by (from the same schema document)	Complex Type <a href="#">CoalStandardQualitySchedule</a> , Complex Type <a href="#">CommodityPhysicalQuantitySchedule</a> , Complex Type <a href="#">SettlementPeriodsSchedule</a>
Documentation	Model group to enable users to reference a Delivery Periods schedule in the form of a series of actual dates in a deliveryPeriods container or in the form of a parameterised schedule in a deliveryPeriodsSchedule container.

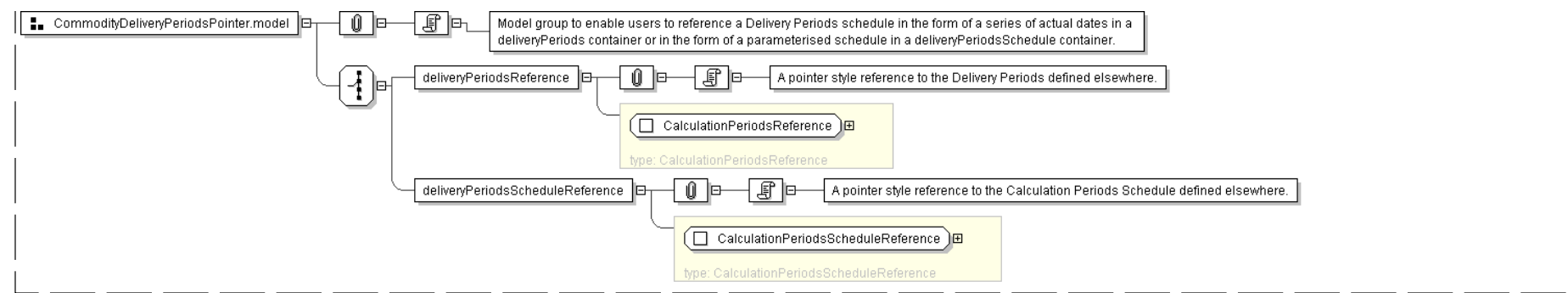
XML Instance Representation

```
Start Choice [1]
  <deliveryPeriodsReference> CalculationPeriodsReference </deliveryPeriodsReference> [1]
  'A pointer style reference to the Delivery Periods defined elsewhere.'

  <deliveryPeriodsScheduleReference> CalculationPeriodsScheduleReference
</deliveryPeriodsScheduleReference> [1]
  'A pointer style reference to the Calculation Periods Schedule defined elsewhere.'

End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="CommodityDeliveryPeriodsPointer.model">
  <xsd:choice>
    <xsd:element name="deliveryPeriodsReference" type="CalculationPeriodsReference" />
    <xsd:element name="deliveryPeriodsScheduleReference" type="CalculationPeriodsScheduleReference" />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityDeliveryPoints.model**

Name	CommodityDeliveryPoints.model
Used by (from the same schema document)	Complex Type <a href="#">GasDelivery</a>
Documentation	A Delivery Point, applicable to physically settled commodity transactions.

XML Instance Representation

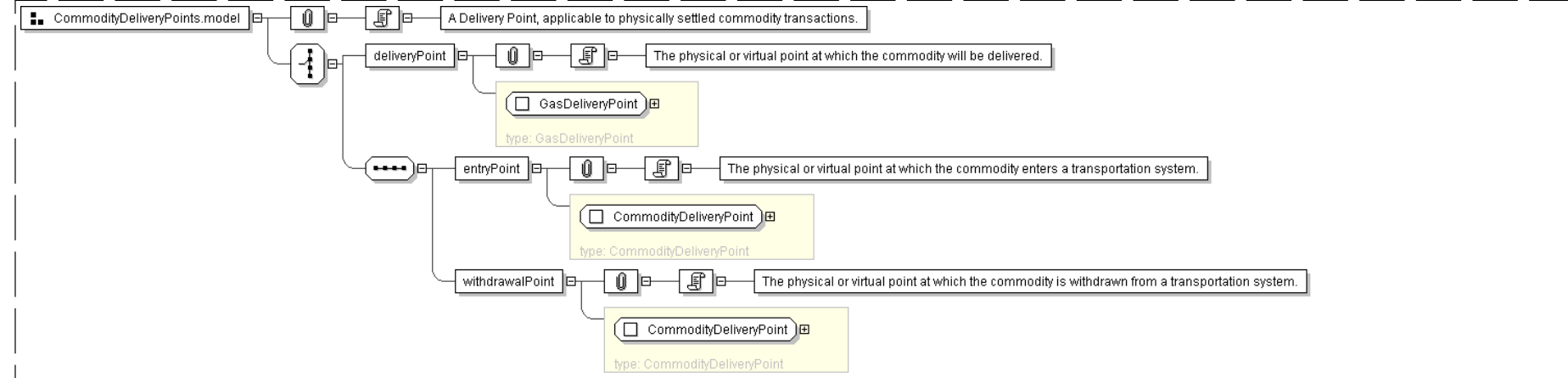
```
Start Choice [1]
<deliveryPoint> GasDeliveryPoint </deliveryPoint> [1]
  'The physical or virtual point at which the commodity will be delivered.'

<entryPoint> CommodityDeliveryPoint </entryPoint> [1]
  'The physical or virtual point at which the commodity enters a transportation system.'

<withdrawalPoint> CommodityDeliveryPoint </withdrawalPoint> [1]
  'The physical or virtual point at which the commodity is withdrawn from a transportation system.'

End Choice
```

Diagram





Schema Component Representation

```
<xsd:group name="CommodityDeliveryPoints.model">
  <xsd:choice>
    <xsd:element name="deliveryPoint" type=" GasDeliveryPoint " />
    <xsd:sequence>
      <xsd:element name="entryPoint" type=" CommodityDeliveryPoint " />
      <xsd:element name="withdrawalPoint" type=" CommodityDeliveryPoint " />
    </xsd:sequence>
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityFixedPhysicalQuantity.model**

Name	CommodityFixedPhysicalQuantity.model
Used by (from the same schema document)	Complex Type <a href="#">BullionPhysicalLeg</a> , Complex Type <a href="#">CommodityPhysicalQuantity</a> , Complex Type <a href="#">GasPhysicalQuantity</a>
Documentation	The different options for specifying a fixed physical quantity of commodity to be delivered.

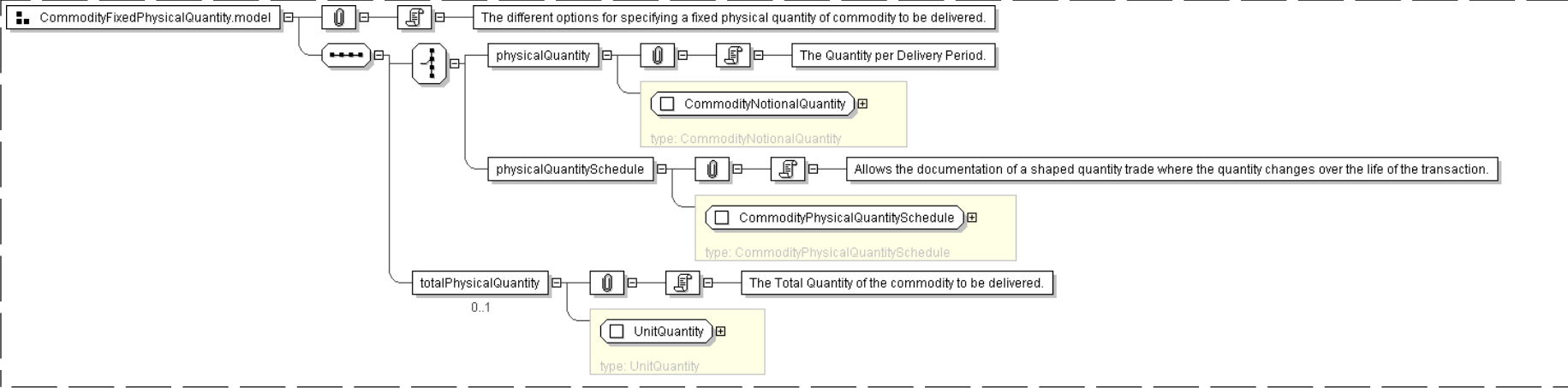
XML Instance Representation

```
Start Choice [1]
<physicalQuantity> CommodityNotionalQuantity </physicalQuantity> [1]
'The Quantity per Delivery Period.'

<physicalQuantitySchedule> CommodityPhysicalQuantitySchedule </physicalQuantitySchedule> [1]
'Allows the documentation of a shaped quantity trade where the quantity changes over the life of the transaction.'

End Choice
<totalPhysicalQuantity> UnitQuantity </totalPhysicalQuantity> [0..1]
'The Total Quantity of the commodity to be delivered.'
```

Diagram



Schema Component Representation

```
<xsd:group name="CommodityFixedPhysicalQuantity.model">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="physicalQuantity" type=" CommodityNotionalQuantity " />
      <xsd:element name="physicalQuantitySchedule" type=" CommodityPhysicalQuantitySchedule " />
    </xsd:choice>
    <xsd:element name="totalPhysicalQuantity" type=" UnitQuantity " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityFixedPrice.model**

Name	CommodityFixedPrice.model
Used by (from the same schema document)	Complex Type <a href="#">FixedPriceLeg</a>
Documentation	The different options for specifying the Fixed Price.

XML Instance Representation

```
Start Choice [1]
  <fixedPriceSchedule> CommodityFixedPriceSchedule </fixedPriceSchedule> [1]
  'Allows the specification of a Fixed Price that varies over the life of the trade.'

Start Choice [1]
  <fixedPrice> FixedPrice </fixedPrice> [1]
  'Fixed price on which fixed payments are based.'

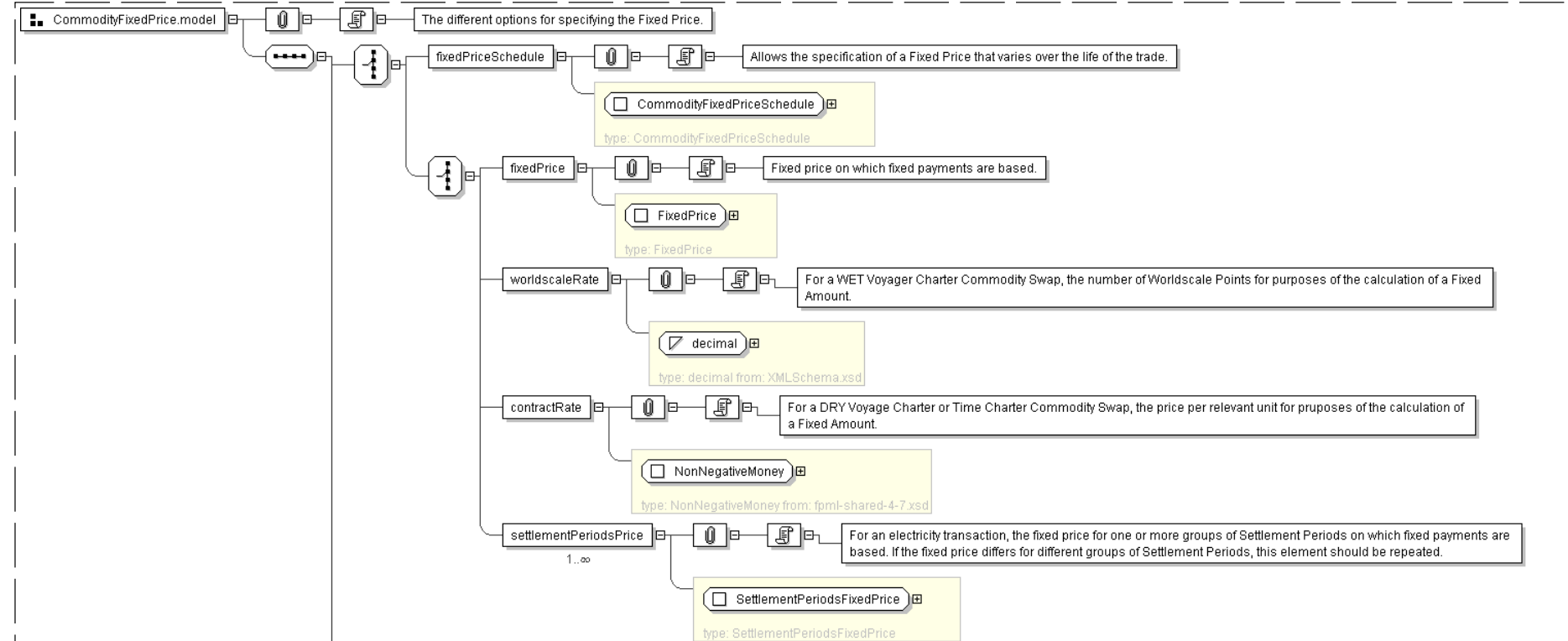
  <worldscaleRate> xsd:decimal </worldscaleRate> [1]
  'For a WET Voyager Charter Commodity Swap, the number of Worldscale Points for purposes of
  the calculation of a Fixed Amount.'

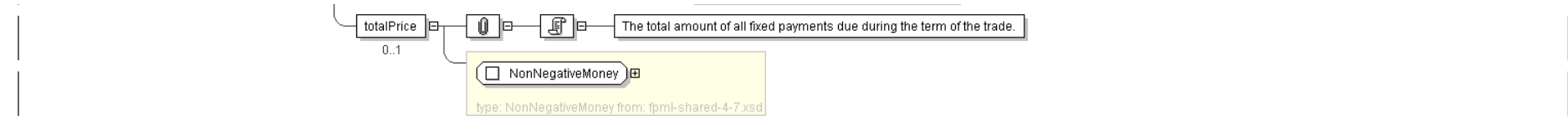
  <contractRate> NonNegativeMoney </contractRate> [1]
  'For a DRY Voyage Charter or Time Charter Commodity Swap, the price per relevant unit
  for purposes of the calculation of a Fixed Amount.'

  <settlementPeriodsPrice> SettlementPeriodsFixedPrice </settlementPeriodsPrice> [1..*]
  'For an electricity transaction, the fixed price for one or more groups of Settlement
  Periods on which fixed payments are based. If the fixed price differs for different groups
  of Settlement Periods, this element should be repeated.'

End Choice
End Choice
<totalPrice> NonNegativeMoney </totalPrice> [0..1]
'The total amount of all fixed payments due during the term of the trade.'
```

Diagram





Schema Component Representation

```
<xsd:group name="CommodityFixedPrice.model">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="fixedPriceSchedule" type=" CommodityFixedPriceSchedule " />
      <xsd:choice>
        <xsd:element name="fixedPrice" type=" FixedPrice " />
        <xsd:element name="worldscaleRate" type=" xsd:decimal " />
        <xsd:element name="contractRate" type=" NonNegativeMoney " />
        <xsd:element name="settlementPeriodsPrice" type=" SettlementPeriodsFixedPrice " maxOccurs="unbounded" />
      </xsd:choice>
    </xsd:choice>
    <xsd:element name="totalPrice" type=" NonNegativeMoney " minOccurs="0" />
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityFreightFlatRate.model**

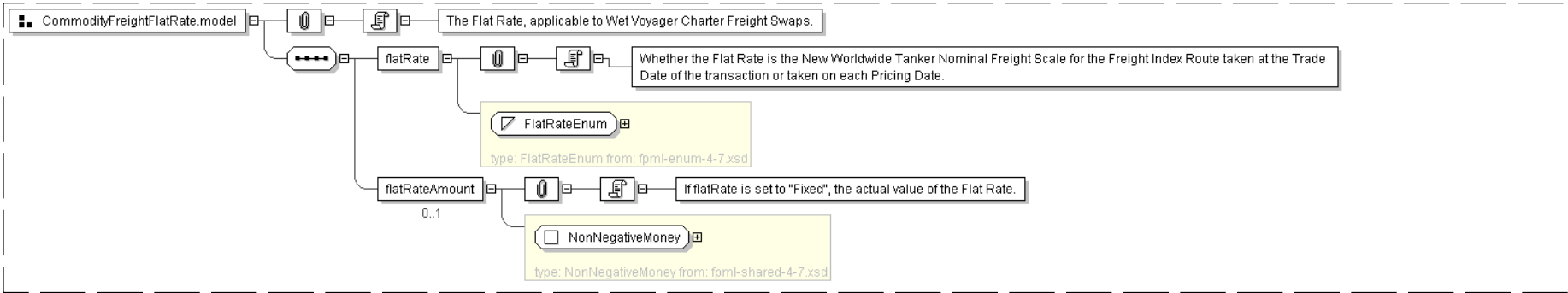
Name	CommodityFreightFlatRate.model
Used by (from the same schema document)	Complex Type <a href="#">FixedPriceLeg</a> , Complex Type <a href="#">FloatingPriceLeg</a>
Documentation	The Flat Rate, applicable to Wet Voyager Charter Freight Swaps.

XML Instance Representation

```
<flatRate> FlatRateEnum </flatRate> [1]
'Whether the Flat Rate is the New Worldwide Tanker Nominal Freight Scale for the Freight
Index Route taken at the Trade Date of the transaction or taken on each Pricing Date.'

<flatRateAmount> NonNegativeMoney </flatRateAmount> [0..1]
'If flatRate is set to \"Fixed\", the actual value of the Flat Rate.'
```

Diagram



Schema Component Representation

```
<xsd:group name="CommodityFreightFlatRate.model">
  <xsd:sequence>
    <xsd:element name="flatRate" type=" FlatRateEnum " />
    <xsd:element name="flatRateAmount" type=" NonNegativeMoney " minOccurs="0" />
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityNonPeriodicPaymentDates.model**

Name	CommodityNonPeriodicPaymentDates.model
Used by (from the same schema document)	Model Group <a href="#">CommodityPaymentDates.model</a>
Documentation	The different options for specifying the Payment Date.

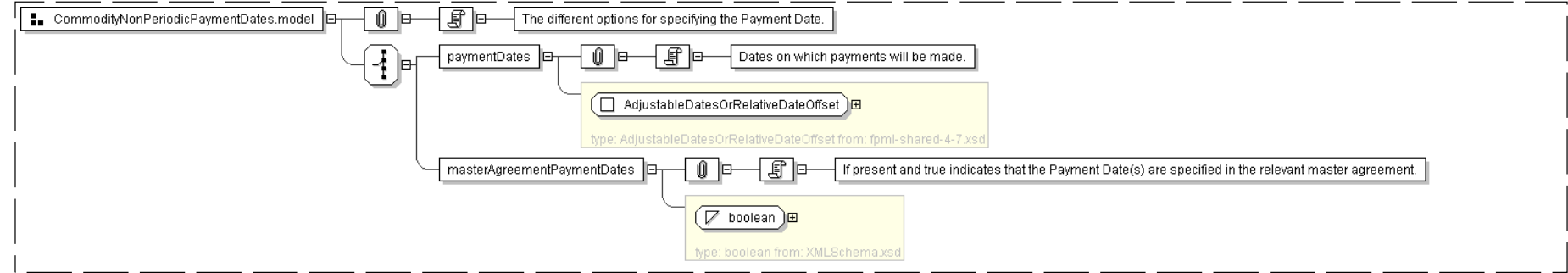
XML Instance Representation

```
Start Choice [1]
<paymentDates> AdjustableDatesOrRelativeDateOffset </paymentDates> [1]
'Dates on which payments will be made.'

<masterAgreementPaymentDates> xsd:boolean </masterAgreementPaymentDates> [1]
'If present and true indicates that the Payment Date(s) are specified in the relevant
master agreement.'
```

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="CommodityNonPeriodicPaymentDates.model">
  <xsd:choice>
    <xsd:element name="paymentDates" type=" AdjustableDatesOrRelativeDateOffset " />
    <xsd:element name="masterAgreementPaymentDates" type=" xsd:boolean " />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityNotionalQuantity.model**

Name	CommodityNotionalQuantity.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityOption</a> , Complex Type <a href="#">FixedPriceLeg</a> , Complex Type <a href="#">FloatingPriceLeg</a>
Documentation	The different options for specifying the Notional Quantity. A flat notional for the term of the trade may be specified, or else the Notional Quantity per Calculation Period. In the latter case, there must be a notional quantity specified for each Calculation Period, regardless of whether the Notional Quantity changes or remains the same between periods.

XML Instance Representation

```
Start Choice [1]
Start Choice [1]
<notionalQuantitySchedule> CommodityNotionalQuantitySchedule </notionalQuantitySchedule> [1]
'Allows the documentation of a shaped notional trade where the notional changes over the
life of the transaction.'

<notionalQuantity> CommodityNotionalQuantity </notionalQuantity> [1]
'The Notional Quantity.'
```

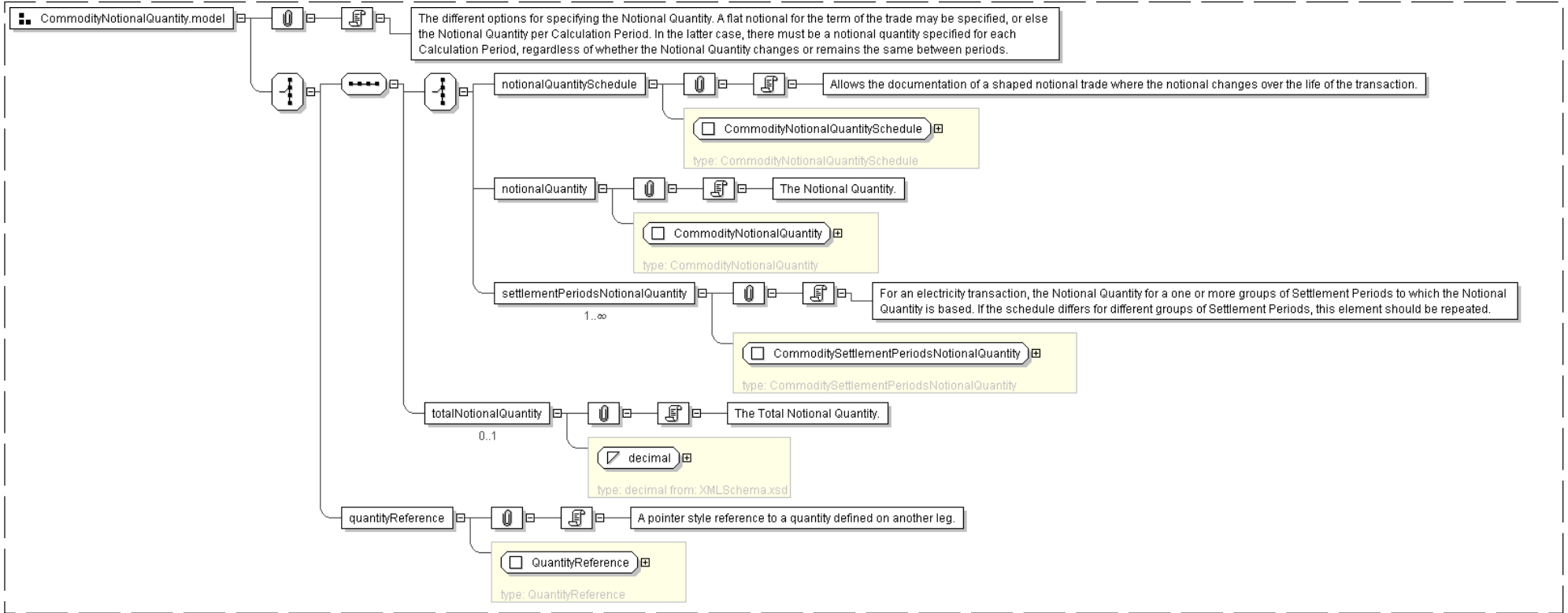
End Choice

```
<totalNotionalQuantity> xsd:decimal </totalNotionalQuantity> [0..1]
'The Total Notional Quantity.'
```

```
<quantityReference> QuantityReference </quantityReference> [1]
'A pointer style reference to a quantity defined on another leg.'
```

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="CommodityNotionalQuantity.model">
  <xsd:choice>
    <xsd:sequence>
      <xsd:choice>
        <xsd:element name="notionalQuantitySchedule" type="CommodityNotionalQuantitySchedule" />
        <xsd:element name="notionalQuantity" type="CommodityNotionalQuantity" />
        <xsd:element name="settlementPeriodsNotionalQuantity"
          type="CommoditySettlementPeriodsNotionalQuantity" maxOccurs="unbounded"/>
      </xsd:choice>
      <xsd:element name="totalNotionalQuantity" type="xsd:decimal" minOccurs="0"/>
    </xsd:sequence>
    <xsd:element name="quantityReference" type="QuantityReference" />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityPaymentDates.model**

Name	CommodityPaymentDates.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityExercise</a> , Complex Type <a href="#">FixedPriceLeg</a> , Complex Type <a href="#">FloatingPriceLeg</a> , Complex Type <a href="#">NonPeriodicFixedPriceLeg</a>
Documentation	The different options for specifying the Payment Date. This will consist of either a set of Payment Dates or else a Payment Date schedule.

## XML Instance Representation

```

Start Choice [1]
<relativePaymentDates> CommodityRelativePaymentDates </relativePaymentDates> [1]
    'The Payment Dates of the trade relative to the Calculation Periods.'

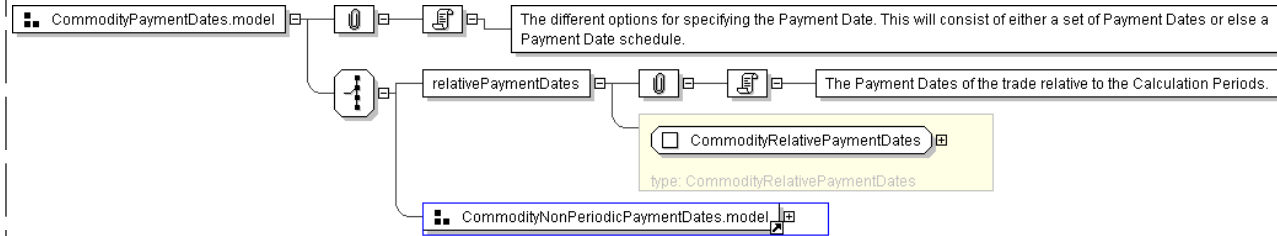
Start Choice [1]
<paymentDates> AdjustableDatesOrRelativeDateOffset </paymentDates> [1]
    'Dates on which payments will be made.'

<masterAgreementPaymentDates> xsd:boolean </masterAgreementPaymentDates> [1]
    'If present and true indicates that the Payment Date(s) are specified in the relevant
    master agreement.'

End Choice
End Choice

```

## Diagram



## Schema Component Representation

```

<xsd:group name="CommodityPaymentDates.model">
  <xsd:choice>
    <xsd:element name="relativePaymentDates" type="CommodityRelativePaymentDates" />
    <xsd:group ref="CommodityNonPeriodicPaymentDates.model" />
  </xsd:choice>
</xsd:group>

```

[top](#)Model Group: **CommodityStrikePrice.model**

<b>Name</b>	CommodityStrikePrice.model
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">CommodityOption</a>
<b>Documentation</b>	The different options for specifying the Strike price per unit.

## XML Instance Representation

```

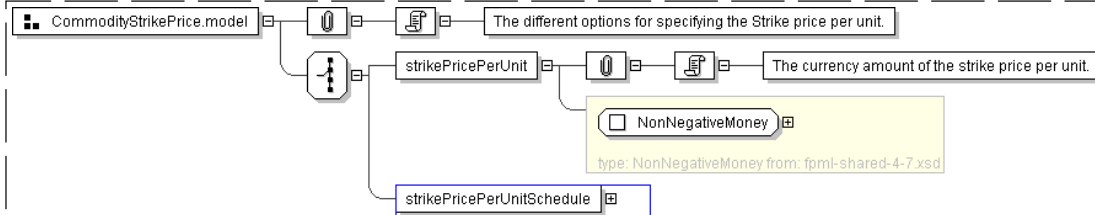
Start Choice [1]
<strikePricePerUnit> NonNegativeMoney </strikePricePerUnit> [1]
    'The currency amount of the strike price per unit.'

<strikePricePerUnitSchedule> CommodityStrikeSchedule </strikePricePerUnitSchedule> [1]

End Choice

```

## Diagram



## Schema Component Representation

```
<xsd:group name="CommodityStrikePrice.model">
  <xsd:choice>
    <xsd:element name="strikePricePerUnit" type=" NonNegativeMoney " />
    <xsd:element name="strikePricePerUnitSchedule" type=" CommodityStrikeSchedule " />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **CommodityUSCoalDelivery.model**

Name	CommodityUSCoalDelivery.model
Used by (from the same schema document)	Complex Type <a href="#">CoalDelivery</a>
Documentation	Items specific to the definition of the delivery of a US Coal Product.

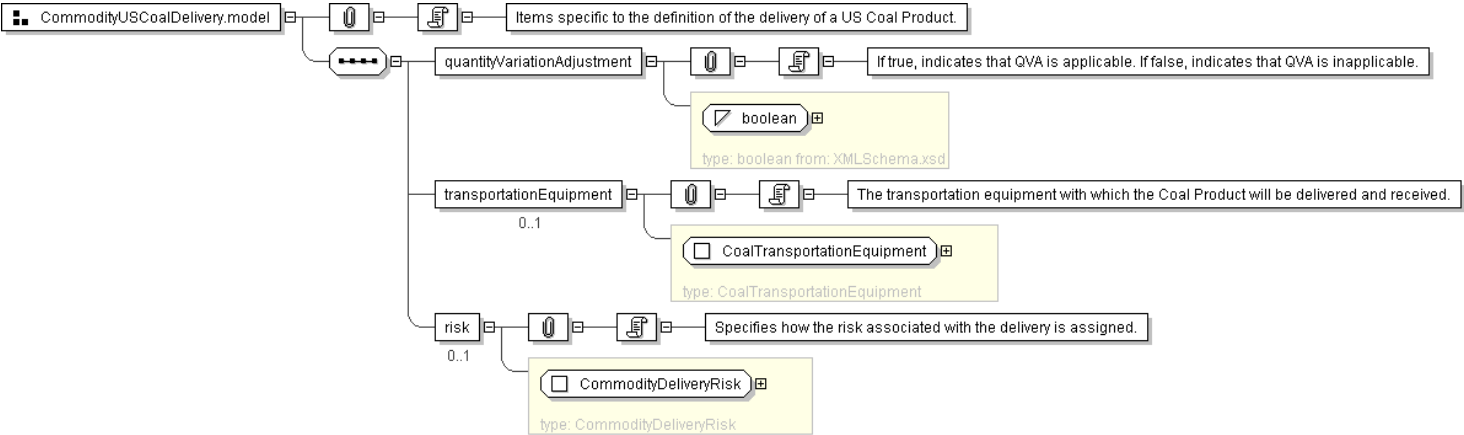
XML Instance Representation

```
<quantityVariationAdjustment> xsd:boolean </quantityVariationAdjustment> [1]
'If true, indicates that QVA is applicable. If false, indicates that QVA is inapplicable.'

<transportationEquipment> CoalTransportationEquipment </transportationEquipment> [0..1]
'The transportation equipment with which the Coal Product will be delivered and received.'

<risk> CommodityDeliveryRisk </risk> [0..1]
'Specifies how the risk associated with the delivery is assigned.'
```

Diagram



Schema Component Representation

```
<xsd:group name="CommodityUSCoalDelivery.model">
  <xsd:sequence>
    <xsd:element name="quantityVariationAdjustment" type=" xsd:boolean " />
    <xsd:element name="transportationEquipment" type=" CoalTransportationEquipment " minOccurs="0"/>
    <xsd:element name="risk" type=" CommodityDeliveryRisk " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CommodityUSCoalProduct.model**

Name	CommodityUSCoalProduct.model
Used by (from the same schema document)	Complex Type <a href="#">CoalProduct</a>
Documentation	Items specific to the definition of a US Coal Product.

XML Instance Representation

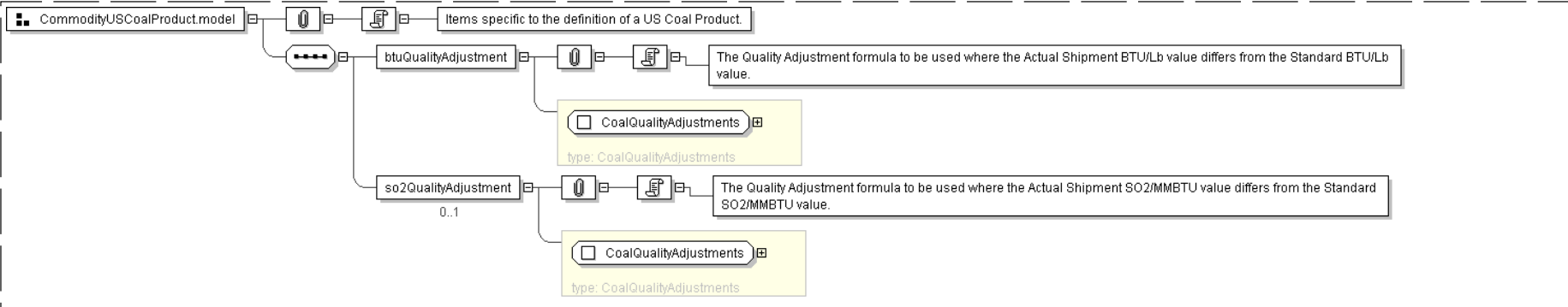
```
<btuQualityAdjustment> CoalQualityAdjustments </btuQualityAdjustment> [1]
```

'The Quality Adjustment formula to be used where the Actual Shipment BTU/Lb value differs from the Standard BTU/Lb value.'

<so2QualityAdjustment> [CoalQualityAdjustments](#) </so2QualityAdjustment> [0..1]

'The Quality Adjustment formula to be used where the Actual Shipment SO2/MMBTU value differs from the Standard SO2/MMBTU value.'

Diagram



Schema Component Representation

```
<xsd:group name="CommodityUSCoalProduct.model">
  <xsd:sequence>
    <xsd:element name="btuQualityAdjustment" type="CoalQualityAdjustments" />
    <xsd:element name="so2QualityAdjustment" type="CoalQualityAdjustments" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **LagOrReference.model**

Name	LagOrReference.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityFx</a>
Documentation	Allows a Lag or a LagReference to be specified.

XML Instance Representation

```
Start Choice [1]
<lag> Lag </lag> [1]

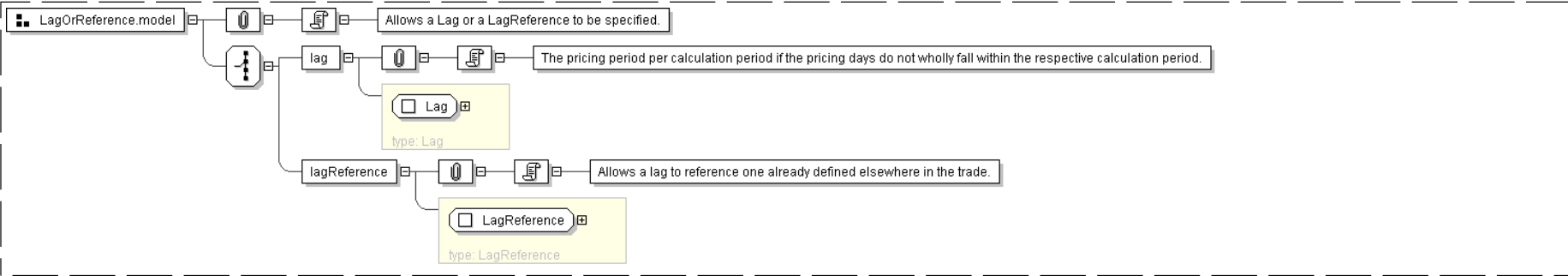
'The pricing period per calculation period if the pricing days do not wholly fall within
the respective calculation period.'
```

```
<lagReference> LagReference </lagReference> [1]

'Allows a lag to reference one already defined elsewhere in the trade.'
```

```
End Choice
```

Diagram





Schema Component Representation

```
<xsd:group name="LagOrReference.model">
  <xsd:choice>
    <xsd:element name="lag" type="Lag" />
    <xsd:element name="lagReference" type="LagReference" />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: Price.model

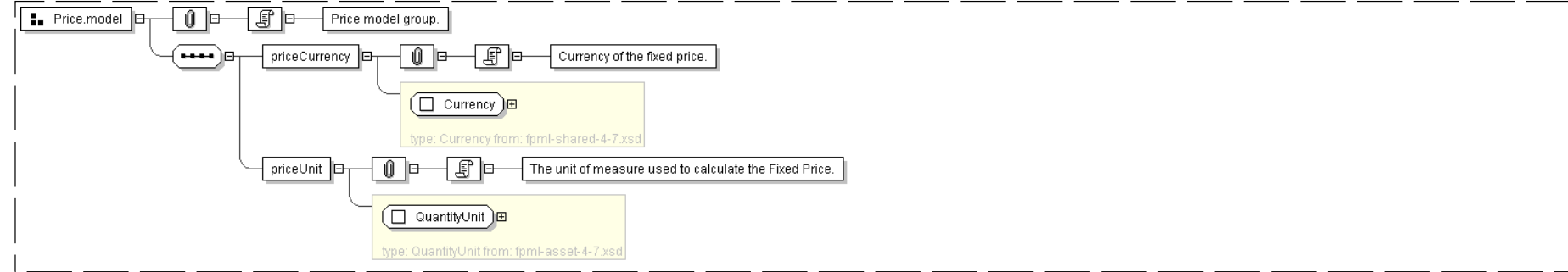
Name	Price.model
Used by (from the same schema document)	Complex Type <a href="#">FixedPrice</a>
Documentation	Price model group.

XML Instance Representation

```
<priceCurrency> Currency </priceCurrency> [1]
'Currency of the fixed price.'

<priceUnit> QuantityUnit </priceUnit> [1]
'The unit of measure used to calculate the Fixed Price.'
```

Diagram



Schema Component Representation

```
<xsd:group name="Price.model">
  <xsd:sequence>
    <xsd:element name="priceCurrency" type="Currency" />
    <xsd:element name="priceUnit" type="QuantityUnit" />
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: PricingDays.model

Name	PricingDays.model
Used by (from the same schema document)	Complex Type <a href="#">CommodityFx</a> , Complex Type <a href="#">CommodityPricingDates</a>
Documentation	The different options for specifying which days are pricing days within a pricing period. Unless a lag element is present, the pricing period will be the calculation period.

XML Instance Representation

```
<dayType> CommodityDayTypeEnum </dayType> [1]
'The type of day on which pricing occurs.'

Start Choice [1]
<dayDistribution> CommodityFrequencyType </dayDistribution> [1]
'The method by which the pricing days are distributed across the pricing period.'

<dayCount> xsd:positiveInteger </dayCount> [0..1]
```

'The number of days over which pricing should take place.'

<dayOfWeek> [DayOfWeekEnum](#) </dayOfWeek> [1..7]

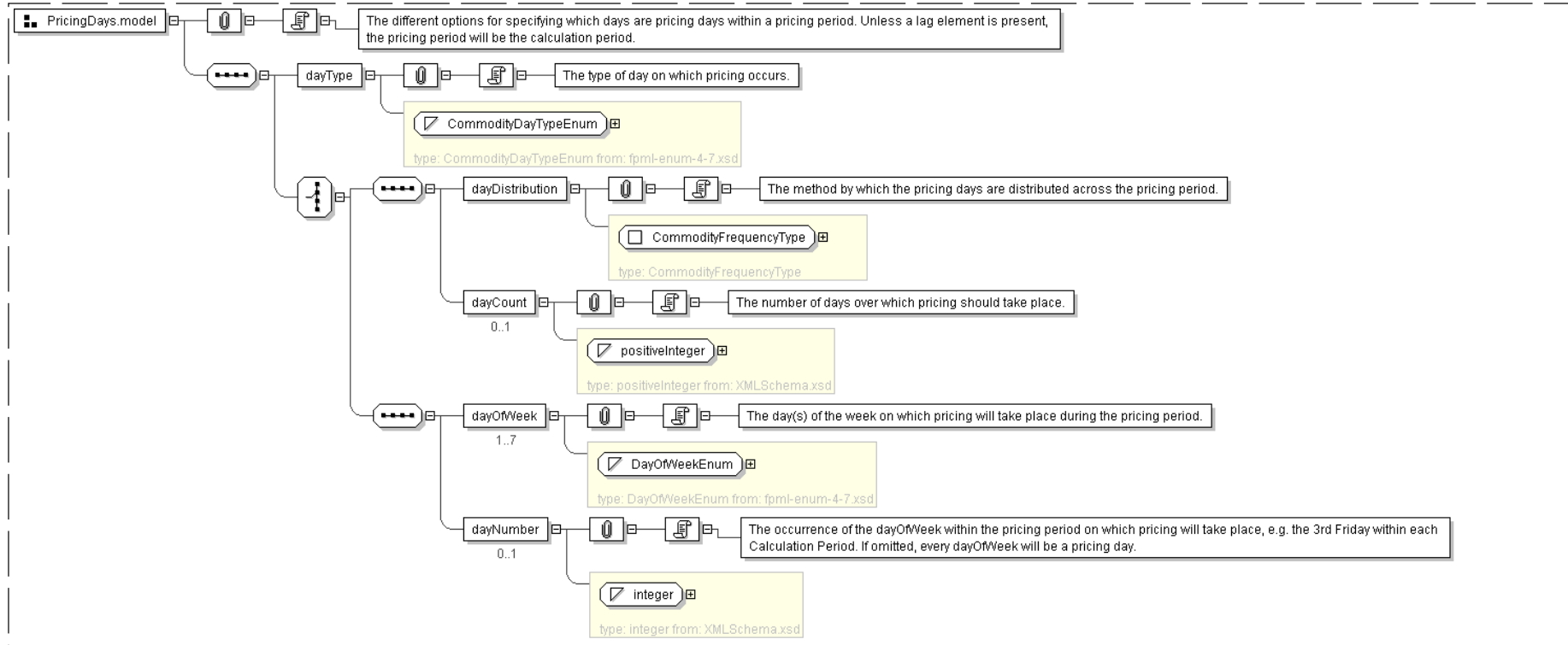
'The day(s) of the week on which pricing will take place during the pricing period.'

<dayNumber> [xsd:integer](#) </dayNumber> [0..1]

'The occurrence of the dayOfWeek within the pricing period on which pricing will take place, e.g. the 3rd Friday within each Calculation Period. If omitted, every dayOfWeek will be a pricing day.'

End Choice

## Diagram



## Schema Component Representation

```
<xsd:group name="PricingDays.model">
  <xsd:sequence>
    <xsd:element name="dayType" type="CommodityDayTypeEnum" />
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="dayDistribution" type="CommodityFrequencyType" />
        <xsd:element name="dayCount" type="xsd:positiveInteger" minOccurs="0"/>
      </xsd:sequence>
      <xsd:sequence>
        <xsd:element name="dayOfWeek" type="DayOfWeekEnum" maxOccurs="7"/>
        <xsd:element name="dayNumber" type="xsd:integer" minOccurs="0"/>
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <a href="#">AusStates</a> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base="Address"&gt; &lt;sequence&gt; &lt;element name="state" type="AusStates"/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base="string"&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type="string" fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, file:///C:/Irina-Local/Subversion/trunk/pdf/fpml-com-4-7.xsd.html (135 of 136) [12/16/2009 3:39:00 PM]

collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmlsig#">http://www.w3.org/2000/09/xmlsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
```

```
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  ...
</xsd:schema>
```

[top](#)

## Global Definitions

### Complex Type: **CancelTradeConfirmation**

Super-types:	<a href="#">RequestMessage</a> < <b>CancelTradeConfirmation</b> (by extension)
Sub-types:	None

Name	CancelTradeConfirmation
Abstract	no
Documentation	A type defining the content model for a message requesting that a previously requested TradeConfirmation process be cancelled.

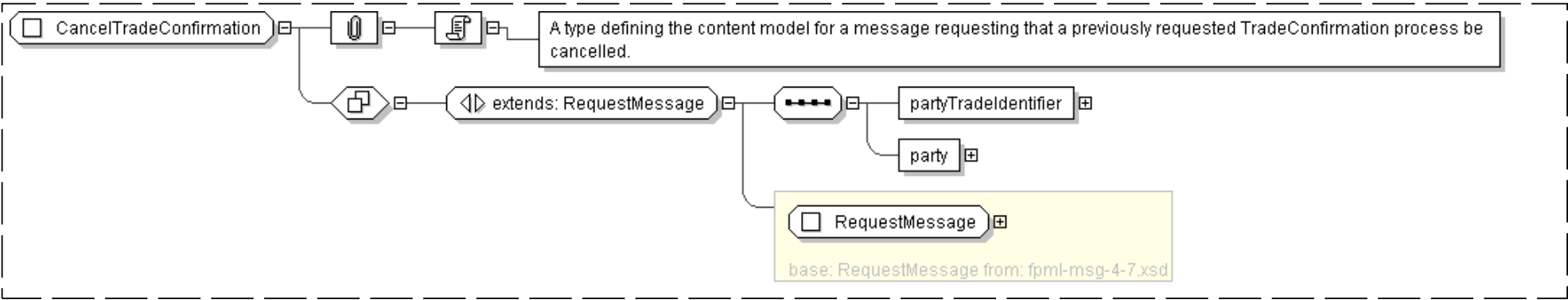
#### XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1]
    'The trade reference identifier(s) allocated to the trade by the parties involved.'
  <party> Party </party> [1]
    'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
```

a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CancelTradeConfirmation">
  <xsd:complexContent>
    <xsd:extension base="RequestMessage">
      <xsd:sequence>
        <xsd:element name="partyTradeIdentifier" type="PartyTradeIdentifier"/>
        <xsd:element name="party" type="Party"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: ConfirmTrade

Super-types:	<a href="#">RequestMessage</a> < <b>ConfirmTrade</b> (by extension)
Sub-types:	None

Name	ConfirmTrade
Abstract	no
Documentation	A type defining the content model for a message that indicates acceptance of a previously matched trade.

XML Instance Representation

<...>

```
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
```

*'Indicate which version of the FpML Schema an FpML message adheres to.'*

"

```
expectedBuild=" xsd:positiveInteger [0..1]
```

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

"

```
actualBuild="5 [0..1]
```

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

">

```
<header> RequestMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1]
```

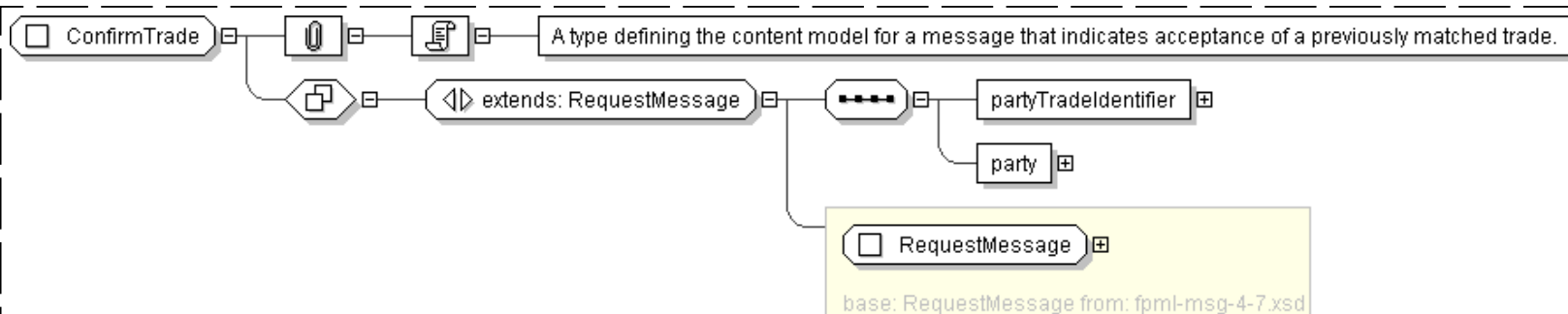
*'The trade reference identifier(s) allocated to the trade by the parties involved.'*

```
<party> Party </party> [1]
```

*'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'*

```
</...>
```

## Diagram



## Schema Component Representation



```
<xsd:complexType name="ConfirmTrade">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage ">
      <xsd:sequence>
        <xsd:element name="partyTradeIdentifier" type=" PartyTradeIdentifier "/>
        <xsd:element name="party" type=" Party "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **ConfirmationCancelled**

Super-types:	<a href="#">ResponseMessage</a> < <b>ConfirmationCancelled</b> (by extension)
Sub-types:	None

Name	ConfirmationCancelled
Abstract	no
Documentation	A type defining the content model for the message generated in response to a CancelConfirmation request under normal circumstances.

XML Instance Representation

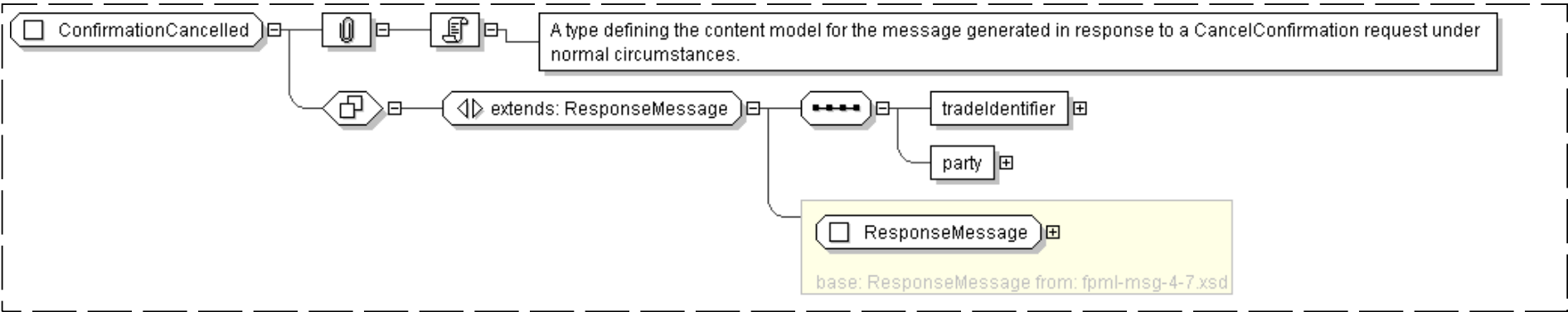
```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
  'An instance of a unique trade identifier.'
```

```
<party> Party </party> [1]
```

'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ConfirmationCancelled">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage " />
    <xsd:sequence>
      <xsd:element name="tradeIdentifier" type=" TradeIdentifier " />
      <xsd:element name="party" type=" Party " />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ModifyTradeConfirmation**

Super-types:	<a href="#">RequestMessage</a> < <b>ModifyTradeConfirmation</b> (by extension)
Sub-types:	None

Name	ModifyTradeConfirmation
Abstract	no
Documentation	A type defining the content model for a message requesting that the details of a trade previously sent for confirmation be changed.

## XML Instance Representation

```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

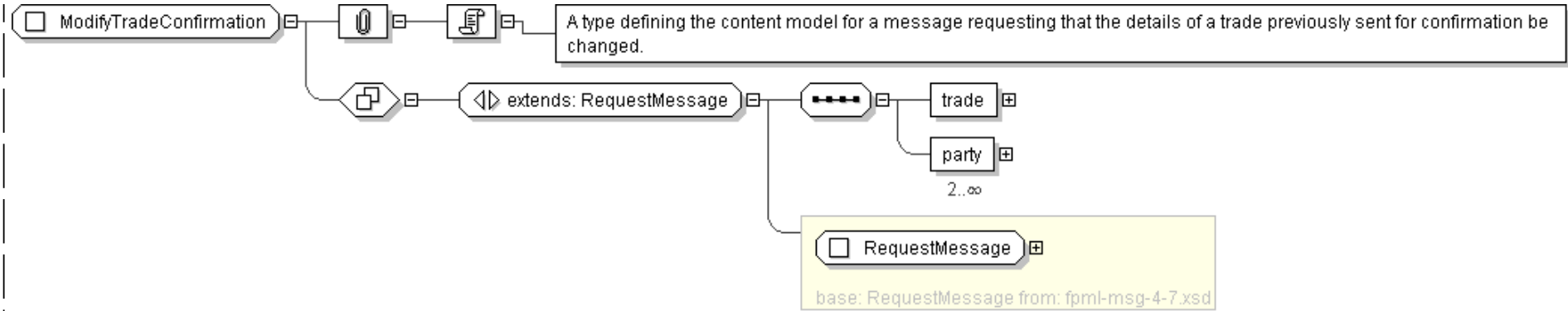
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <trade> Trade </trade> [1]
  'The root element in an FpML trade document.'

  <party> Party </party> [2..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
a trade lifecycle. For example, the principal parties obligated to make payments from time
to time during the term of the trade, but may include other parties involved in, or
incidental to, the trade, such as parties acting in the role of novation transferor/
transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places
within a document.'

</...>

```

## Diagram



Schema Component Representation

```
<xsd:complexType name="ModifyTradeConfirmation">
  <xsd:complexContent>
    <xsd:extension base="RequestMessage">
      <xsd:sequence>
        <xsd:element name="trade" type="Trade"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RequestTradeConfirmation

Super-types:	<a href="#">RequestMessage</a> < RequestTradeConfirmation (by extension)
Sub-types:	None

Name	RequestTradeConfirmation
Abstract	no
Documentation	A type defining the content model for a message requesting that the contained trade be put forward for matching and confirmation.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
```

```

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

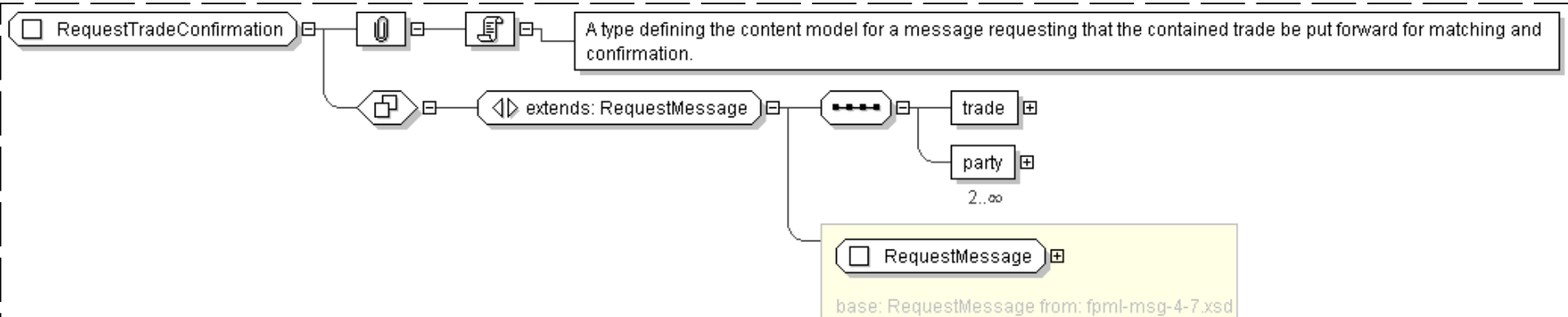
">
<header> RequestMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<trade> Trade </trade> [1]
'The root element in an FpML trade document.'

<party> Party </party> [2..*]
'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
a trade lifecycle. For example, the principal parties obligated to make payments from time
to time during the term of the trade, but may include other parties involved in, or
incidental to, the trade, such as parties acting in the role of novation transferor/
transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places
within a document.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="RequestTradeConfirmation">
  <xsd:complexContent>
    <xsd:extension base="RequestMessage">
      <xsd:sequence>
        <xsd:element name="trade" type="Trade"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexType>

```

```
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **TradeAffirmation**

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeAffirmation</b> (by extension)
Sub-types:	None

Name	TradeAffirmation
Abstract	no
Documentation	A type defining the content model for a message that indicates that a trade is considered affirmed by the sender.

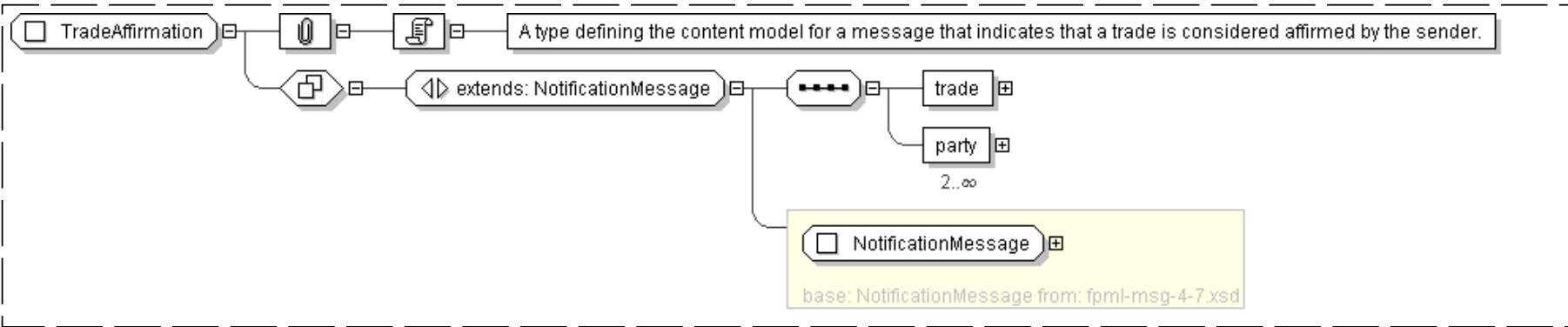
XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <trade> Trade </trade> [1]
  'The root element in an FpML trade document.'

  <party> Party </party> [2..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAffirmation">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " />
    <xsd:sequence>
      <xsd:element name="trade" type=" Trade " />
      <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeAffirmed

Super-types:	<a href="#">ResponseMessage</a> < <b>TradeAffirmed</b> (by extension)
Sub-types:	None

Name	TradeAffirmed
Abstract	no
Documentation	A type defining the content model for a message generated when a party confirms that a trade is affirmed.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: { '4-0' | '4-1' | '4-2' | '4-3' | '4-4' | '4-5' | '4-6' | '4-7' }) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
```

expectedBuild=" xsd:positiveInteger [0..1]

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> ResponseMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

<tradeIdentifier> TradeIdentifier </tradeIdentifier> [1..\*]

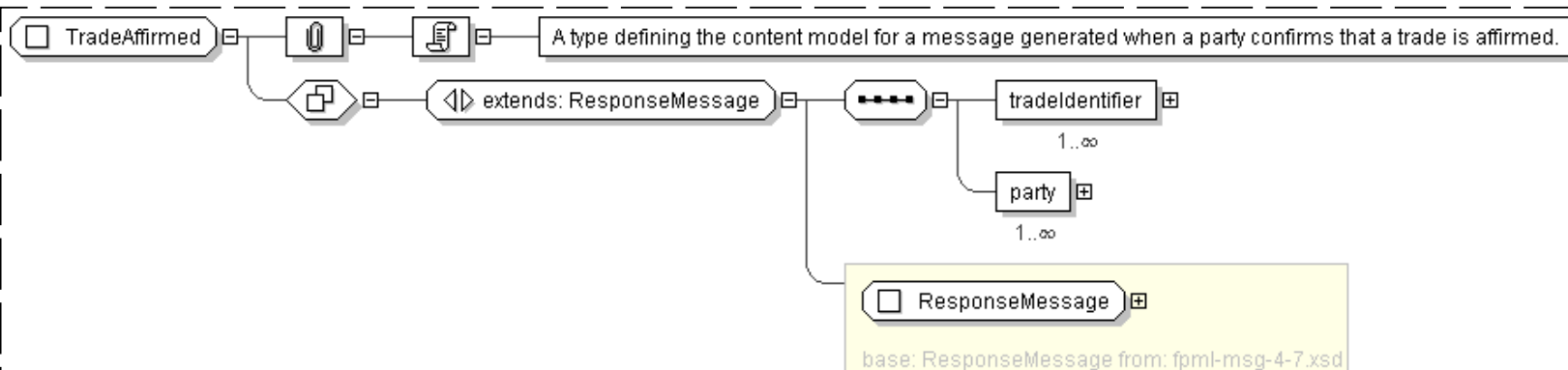
'An instance of a unique trade identifier.'

<party> Party </party> [1..\*]

'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="TradeAffirmed">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
```



```
<xsd:element name="tradeIdentifier" type=" TradeIdentifier " maxOccurs="unbounded"/>
<xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **TradeAlreadyAffirmed**

Super-types:	<a href="#">TradeErrorResponse</a> < <b>TradeAlreadyAffirmed</b> (by extension)
Sub-types:	None

Name	TradeAlreadyAffirmed
Abstract	no
Documentation	An error response message indicating that a trade has already been affirmed.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
Start Choice [1]
  <trade> Trade </trade> [1]
  'An element that allows the full details of the trade to be used as a mechanism for
  identifying the trade for which the post-trade event pertains'

  <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
```

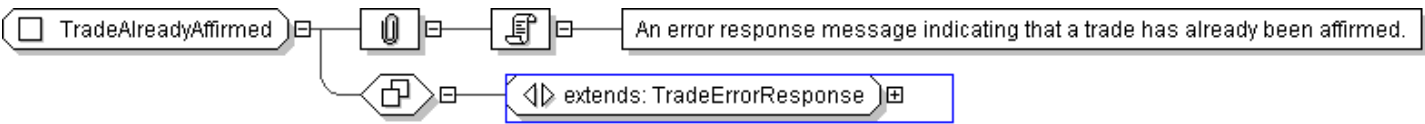
*'A container since an individual trade can be referenced by two or more different partyTradeIdentifier elements - each allocated by a different party.'*

End Choice  
<party> Party </party> [1..\*]

*'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'*

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAlreadyAffirmed">
  <xsd:complexContent>
    <xsd:extension base=" TradeErrorResponse " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeAlreadyConfirmed

Super-types:	<a href="#">TradeErrorResponse</a> < <b>TradeAlreadyConfirmed</b> (by extension)
Sub-types:	None

Name	TradeAlreadyConfirmed
Abstract	no
Documentation	An error response message indicating that a trade has already been confirmed.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
```

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"  
actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">  
<header> ResponseMessageHeader </header> [1]  
<validation> Validation </validation> [0..\*]

Start Choice [1]

<trade> Trade </trade> [1]

'An element that allows the full details of the trade to be used as a mechanism for identifying the trade for which the post-trade event pertains'

<tradeReference> PartyTradeIdentifiers </tradeReference> [1]

'A container since an individual trade can be referenced by two or more different partyTradeIdentifier elements - each allocated by a different party.'

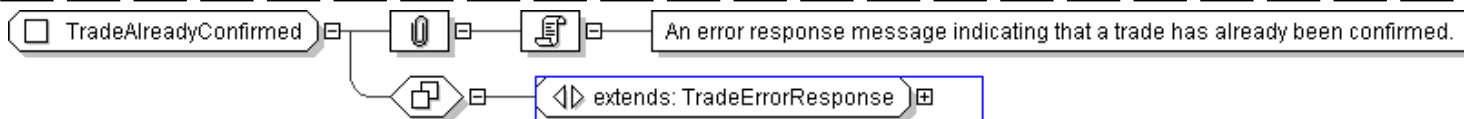
End Choice

<party> Party </party> [1..\*]

'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeAlreadyConfirmed">
  <xsd:complexContent>
    <xsd:extension base="TradeErrorResponse" />
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **TradeConfirmed**

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeConfirmed</b> (by extension)
Sub-types:	None

Name	TradeConfirmed
Abstract	no
Documentation	A type defining the content model of a message generated when a trade is determined to be confirmed.

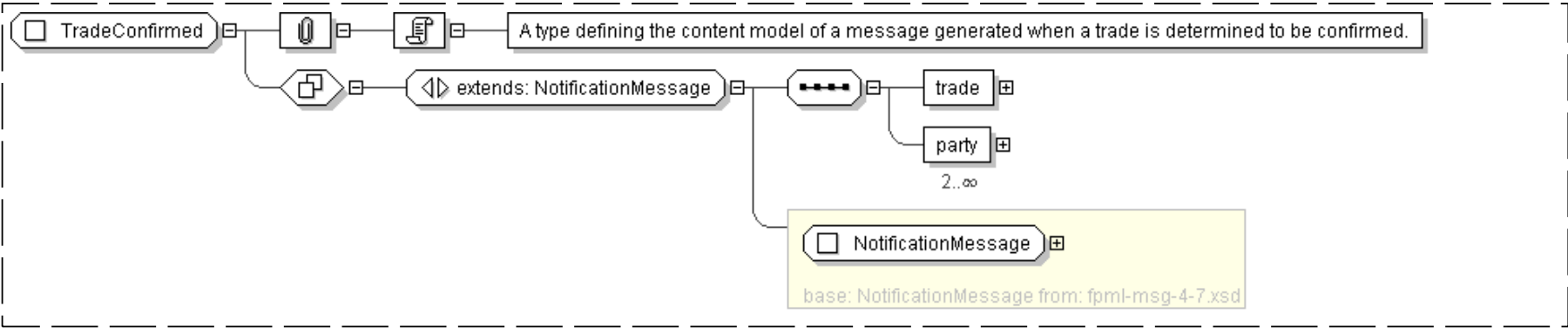
XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <trade> Trade </trade> [1]
  'The root element in an FpML trade document.'

  <party> Party </party> [2..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeConfirmed">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Legend

**Complex Type:**  
Schema Component Type

**AusAddress**  
Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
```

```
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base=" Address ">
      <sequence>
        <element name="state" type=" AusStates "/>
        <element name="postcode">
          <simpleType>
            <restriction base=" string ">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type=" string " fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

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Generated by <Oxygen/> XML Editor using a modified version of [xs3p](#) that adds schema diagrams and chunking support.



# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6510 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li><li>◦ <a href="#">fpml-reconciliation-4-7.xsd</a></li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	http://www.w3.org/XML/1998/namespace
ecore	http://www.eclipse.org/emf/2002/Ecore
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	http://www.w3.org/2000/09/xmldsig#
xsd	http://www.w3.org/2001/XMLSchema

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6510 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd"/>
  <xsd:include schemaLocation="fpml-reconciliation-4-7.xsd"/>
  ...
</xsd:schema>
```

[top](#)

Global Declarations

Element: **changeEvent**

- The following elements can be used wherever this element is referenced:
  - [indexChange](#)

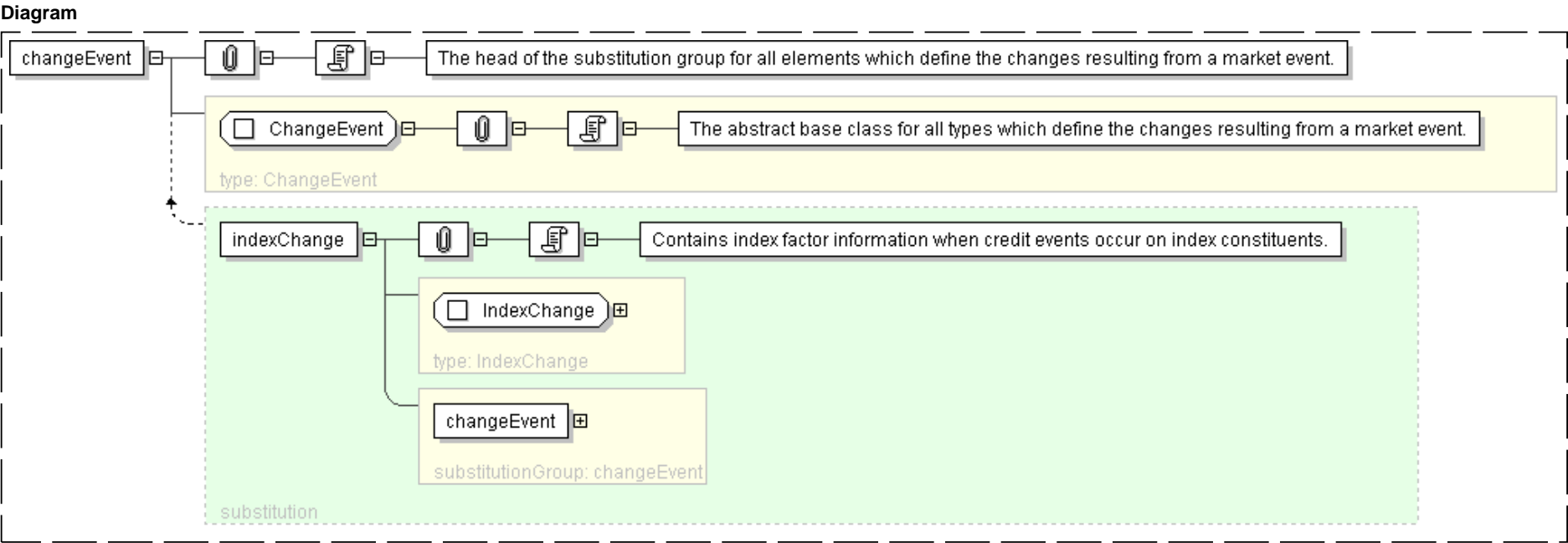
Name	changeEvent
Used by (from the same schema document)	Complex Type <a href="#">ContractChange</a>
Type	<a href="#">ChangeEvent</a>
Nilable	no
Abstract	yes
Documentation	The head of the substitution group for all elements which define the changes resulting from a market event.

Logical Diagram



XML Instance Representation

```
<changeEvent />
```



**Schema Component Representation**

```
<xsd:element name="changeEvent" type="ChangeEvent" abstract="true"/>
```

[top](#)

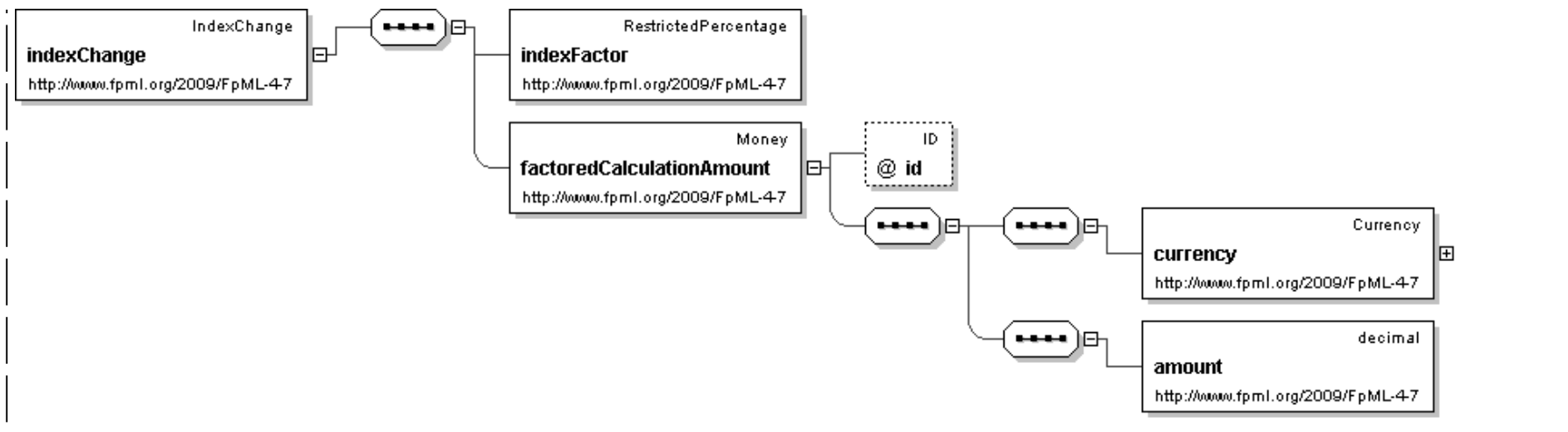
**Element: indexChange**

- This element can be used wherever the following element is referenced:
  - [changeEvent](#)

Name	indexChange
Type	<a href="#">IndexChange</a>
Nilable	no
Abstract	no
Documentation	Contains index factor information when credit events occur on index constituents.

**Logical Diagram**





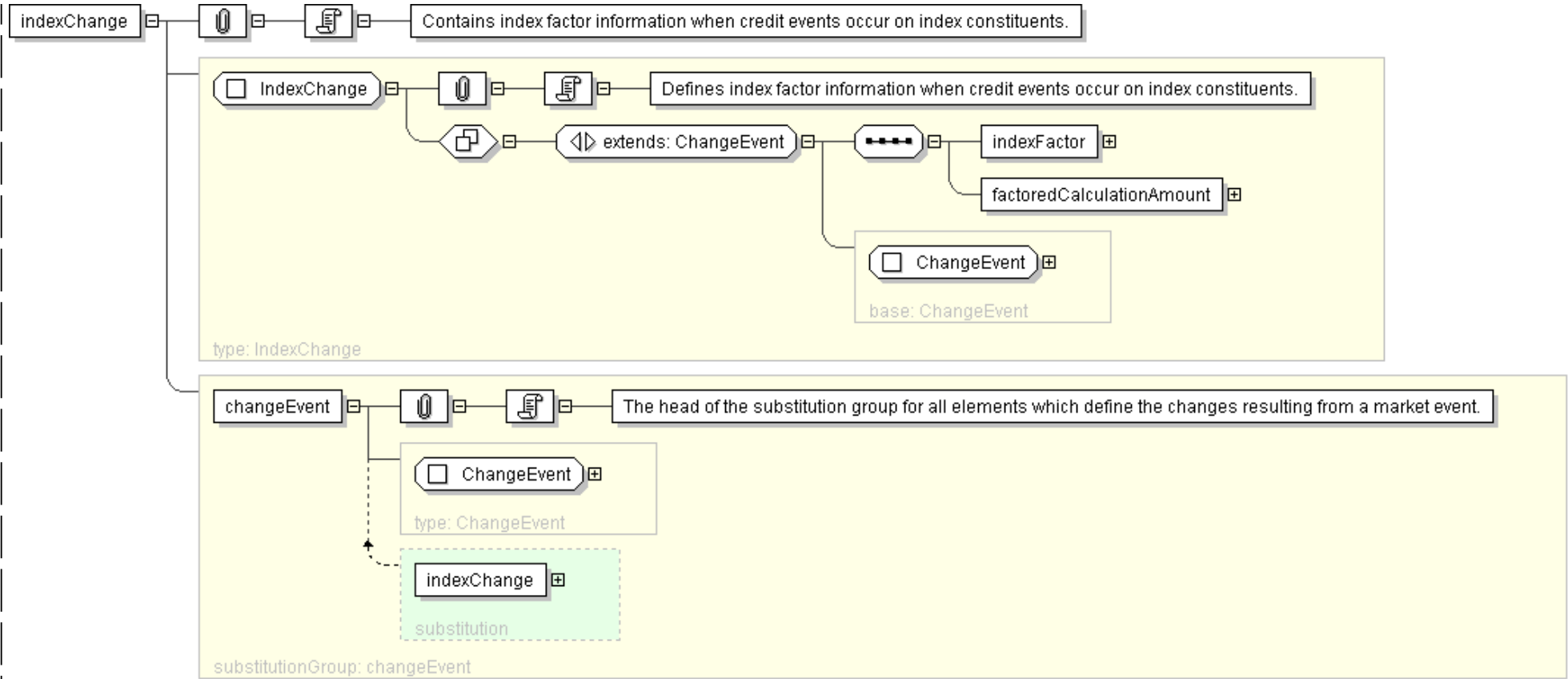
### XML Instance Representation

```
<indexChange>
  <indexFactor> RestrictedPercentage </indexFactor> [1]
  'The index version factor, expressed as a decimal, that multiplied by the original
  notional amount yields the notional amount covered by the seller. A factor of 75% would
  be represented as 0.75.'

  <factoredCalculationAmount> Money </factoredCalculationAmount> [1]
  'This relates only to CDS index contracts and represents the factored notional amount,
  obtained by multiplying the index factor to the contract notional amount. See
  indexFactor description above.'

</indexChange>
```

### Diagram



Schema Component Representation

```
<xsd:element name="indexChange" type=" IndexChange " substitutionGroup="changeEvent"/>
```

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Global Definitions

Complex Type: **ChangeEvent**

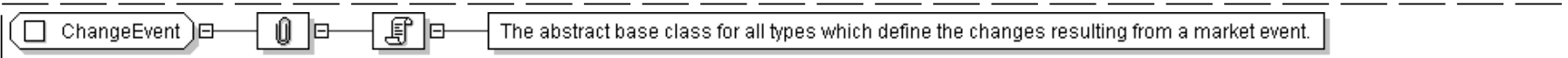
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">IndexChange</a> (by extension)</li></ul>

Name	ChangeEvent
Used by (from the same schema document)	Element <a href="#">changeEvent</a>
Abstract	yes
Documentation	The abstract base class for all types which define the changes resulting from a market event.

XML Instance Representation

```
<.../>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ChangeEvent" abstract="true"/>
```

[top](#)

Complex Type: ContractAmended

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractAmended</b> (by extension)
Sub-types:	None

Name	ContractAmended
Abstract	no
Documentation	Notification that a Contract has been Amended.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
```

```

<amendment> ContractAmendment </amendment> [1]
'Details of the amendment'

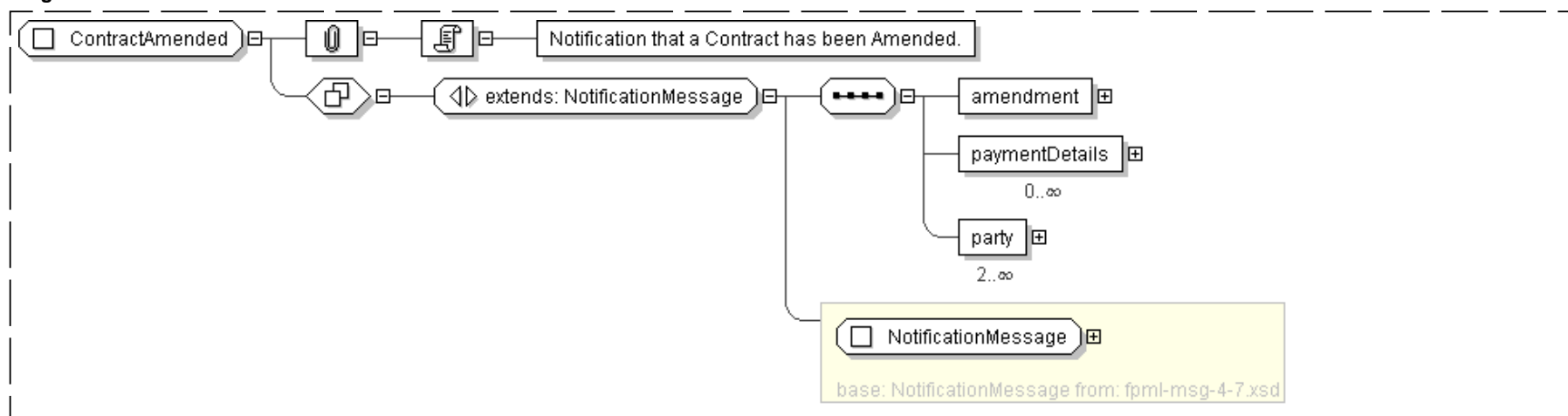
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
'Details of the payments, like amount breakdowns, settlement information.'

<party> Party </party> [2..*]
'Identification of the Parties to this Contract.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="ContractAmended">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="amendment" type=" ContractAmendment " />
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

[top](#)Complex Type: **ContractAmendedCancelled**

Super-types: [NotificationMessage](#) < **ContractAmendedCancelled** (by extension)

Sub-types:

None

Name	ContractAmendedCancelled
Abstract	no
Documentation	Notification that an Amendment to the Contract has been subject to Cancellation.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <contractReference> ContractReference </contractReference> [1]
  'Identification of a single Contract which is the subject of this message. Each Party
  may provide one to many identifiers for this contract.'

  <amendment> ContractAmendment </amendment> [0..1]
  'Details of the amendment being cancelled'

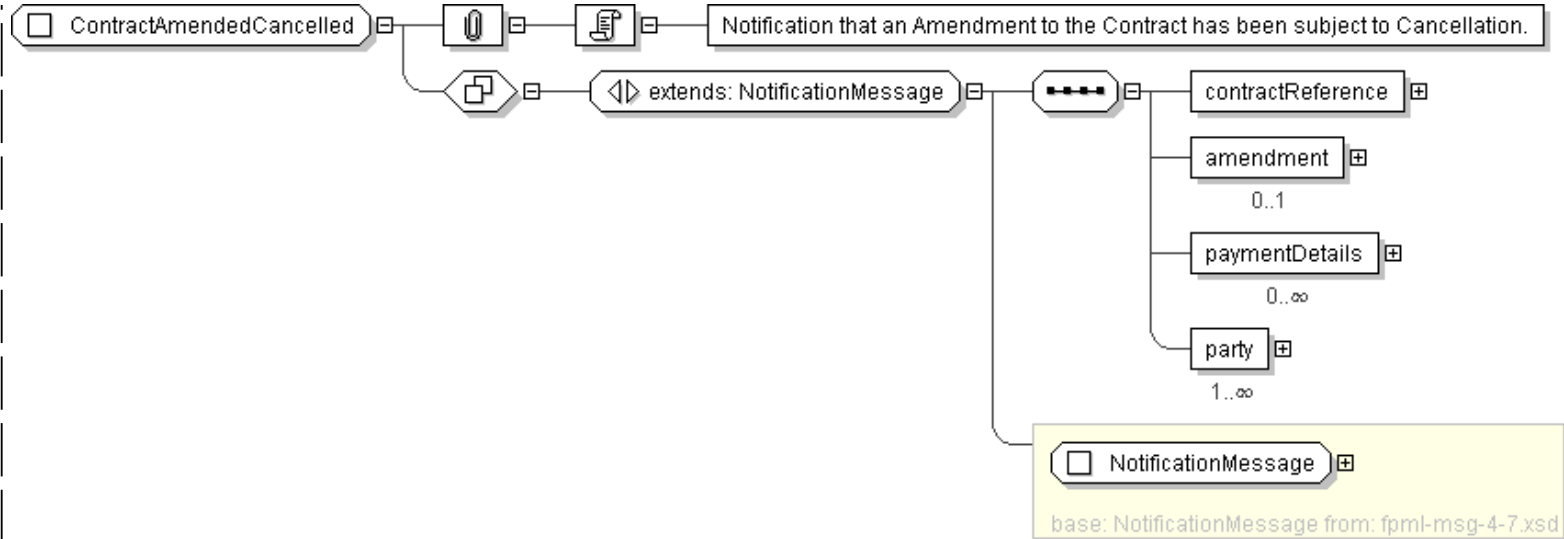
  <paymentDetails> PaymentDetails </paymentDetails> [0..*]
  'Details of the payments, like amount breakdowns, settlement information.'

  <party> Party </party> [1..*]
  'Identification of the Parties to this Contract.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="ContractAmendedCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="contractReference" type=" ContractReference "/>
        <xsd:element name="amendment" type=" ContractAmendment " minOccurs="0"/>
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractAmendment**

Super-types:	None
Sub-types:	None
Name	ContractAmendment
Used by (from the same schema document)	Complex Type <a href="#">ContractAmended</a> , Complex Type <a href="#">ContractAmendedCancelled</a>
Abstract	no
Documentation	Details of the amendment.

XML Instance Representation

```
<...>
```

```

<contract> Contract </contract> [1]
'A fulll description of the amended contract.'

<agreementDate> xsd:date </agreementDate> [1]
'The date on which the change was agreed.'

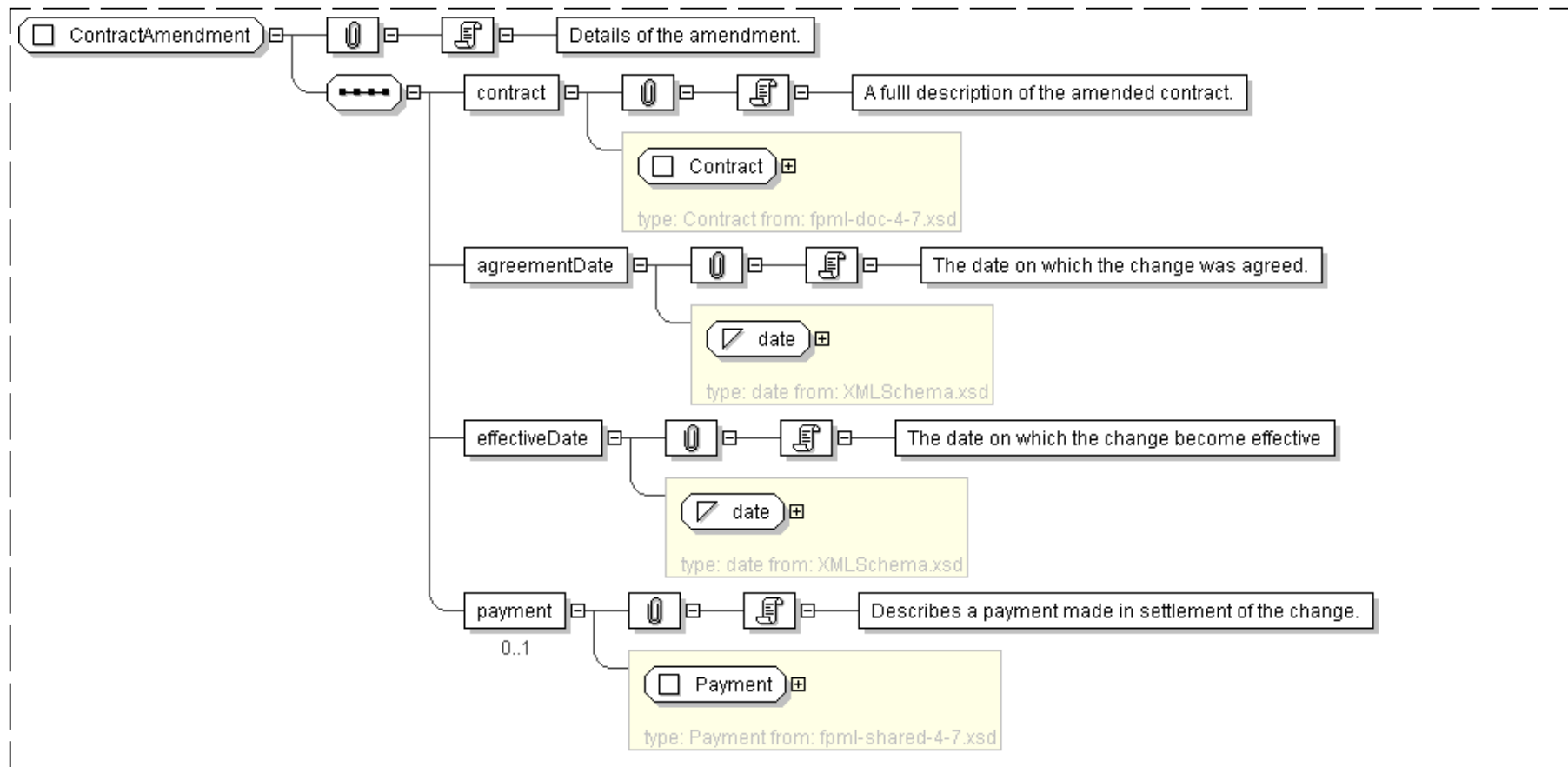
<effectiveDate> xsd:date </effectiveDate> [1]
'The date on which the change become effective'

<payment> Payment </payment> [0..1]
'Describes a payment made in settlement of the change.'

</...>

```

### Diagram



### Schema Component Representation

```

<xsd:complexType name="ContractAmendment">
  <xsd:sequence>

```

```
<xsd:element name="contract" type=" Contract " />
<xsd:element name="agreementDate" type=" xsd:date " />
<xsd:element name="effectiveDate" type=" xsd:date " />
<xsd:element name="payment" type=" Payment " minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractCancelled**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">ContractReferenceMessage</a> (by extension) < <b>ContractCancelled</b> (by extension)
Sub-types:	None

Name	ContractCancelled
Abstract	no
Documentation	Notification that a Contract has been subject to Cancellation.

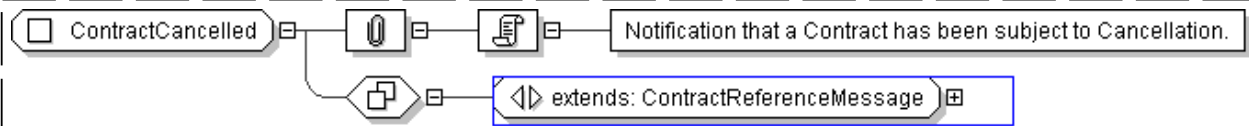
XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<contractReference> ContractReference </contractReference> [1]
'Identification of a single Contract which is the subject of this message. Each Party may provide one to many identifiers for this contract.'
<party> Party </party> [2..*]
```

```
'Identification of the Parties to this Contract.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractCancelled">
  <xsd:complexContent>
    <xsd:extension base=" ContractReferenceMessage " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractChange**

Super-types:	None
Sub-types:	None

Name	ContractChange
Used by (from the same schema document)	Complex Type <a href="#">ContractChanged</a> , Complex Type <a href="#">ContractChangedCancelled</a>
Abstract	no
Documentation	Details of the Contract's non-negotiated changes.

XML Instance Representation

```
<...>
Start Choice [0..1]
  <oldContractIdentifier> PartyTradeIdentifier </oldContractIdentifier> [1]
  <oldContract> Contract </oldContract> [1]
End Choice
<contract> Contract </contract> [1]
'A fulll description of the changed contract.'
```

```
<effectiveDate> xsd:date </effectiveDate> [1]
'The date on which the change become effective.'
```

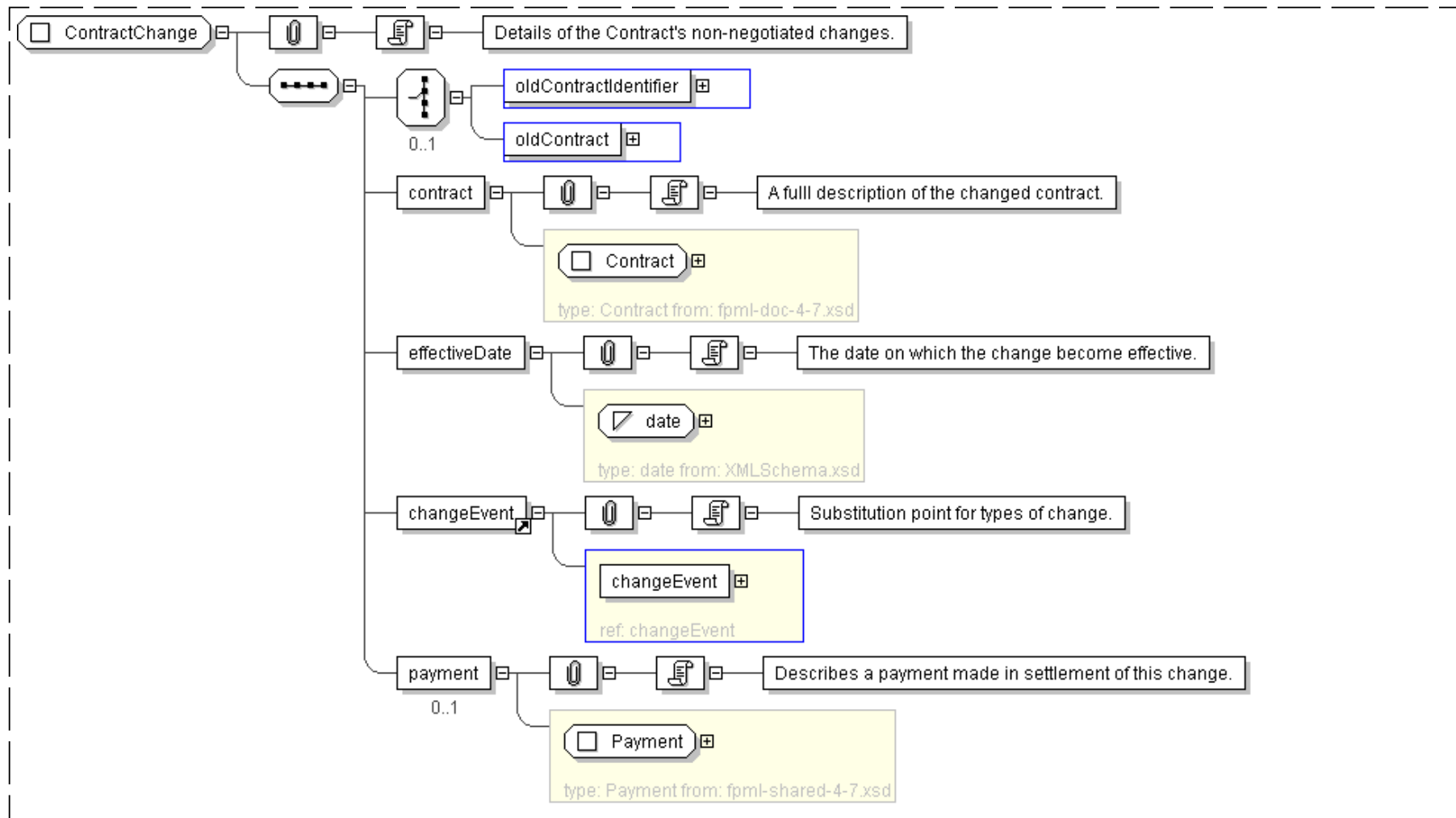
```
<changeEvent> ... </changeEvent> [1]
'Substitution point for types of change.'
```

```
<payment> Payment </payment> [0..1]
```

'Describes a payment made in settlement of this change.'

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="ContractChange">
  <xsd:sequence>
    <xsd:choice minOccurs="0">
      <xsd:element name="oldContractIdentifier" type="PartyTradeIdentifier"/>
      <xsd:element name="oldContract" type="Contract"/>
    </xsd:choice>
    <xsd:element name="contract" type="Contract"/>
    <xsd:element name="effectiveDate" type="xsd:date"/>
    <xsd:element name="changeEvent" type="changeEvent"/>
    <xsd:element name="payment" type="Payment"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element ref=" changeEvent " />
<xsd:element name="payment" type=" Payment " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractChanged**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractChanged</b> (by extension)
Sub-types:	None

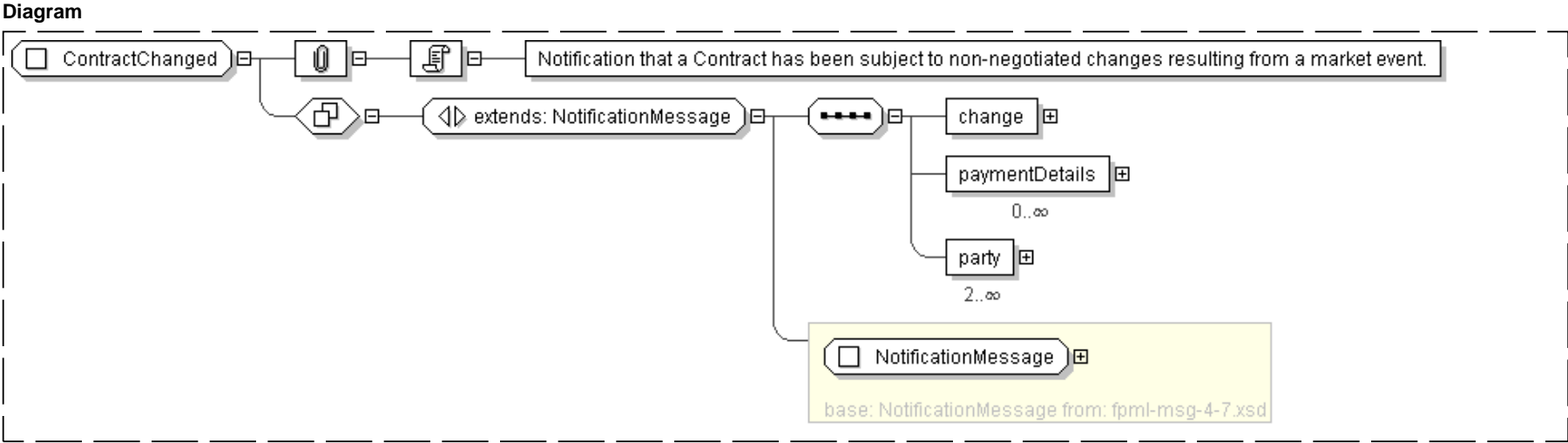
Name	ContractChanged
Abstract	no
Documentation	Notification that a Contract has been subject to non-negotiated changes resulting from a market event.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<change> ContractChange </change> [1]
'Details of the Contract\'s non-negotiated changes.'

<paymentDetails> PaymentDetails </paymentDetails> [0..*]
'Details of the payments, like amount breakdowns, settlement information.'
```

```
<party> Party </party> [2..*]  
'Identification of the Parties to this Contract.'  
  
</...>
```



Schema Component Representation

```
<xsd:complexType name="ContractChanged">  
  <xsd:complexContent>  
    <xsd:extension base=" NotificationMessage ">  
      <xsd:sequence>  
        <xsd:element name="change" type=" ContractChange "/>  
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />  
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **ContractChangedCancelled**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractChangedCancelled</b> (by extension)
Sub-types:	None
Name	ContractChangedCancelled
Abstract	no
Documentation	Notification that a Contract's non-negotiated changes has been subject to Cancellation.

## XML Instance Representation

```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <contractReference> ContractReference </contractReference> [1]
  'Identification of a single Contract which is the subject of this message. Each Party
may provide one to many identifiers for this contract.'

  <change> ContractChange </change> [1]
  'Details of the changes being cancelled.'

  <paymentDetails> PaymentDetails </paymentDetails> [0..*]
  'Details of the payments, like amount breakdowns, settlement information.'

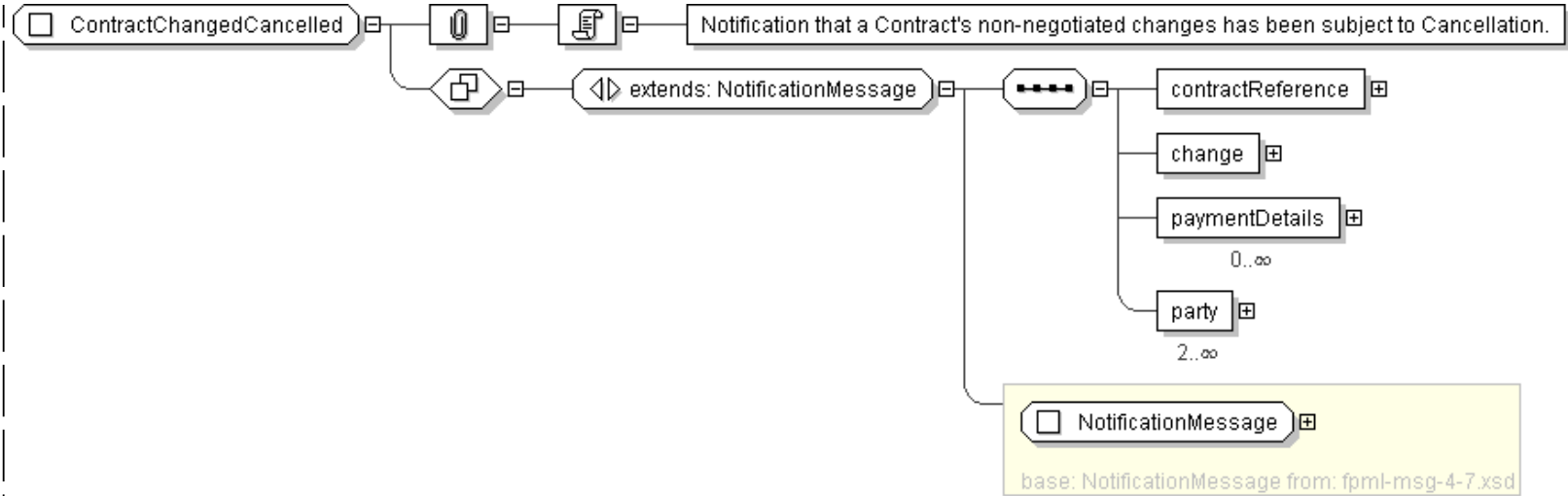
  <party> Party </party> [2..*]
  'Identification of the Parties to this Contract.'

</...>

```

## Diagram





Schema Component Representation

```
<xsd:complexType name="ContractChangedCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="contractReference" type=" ContractReference " />
        <xsd:element name="change" type=" ContractChange " />
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractCreated**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractCreated</b> (by extension)
Sub-types:	None

Name	ContractCreated
Abstract	no
Documentation	Notification that a Contract has been Created.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
  7'}) [1]
```

'Indicate which version of the FpML Schema an FpML message adheres to.'

"

expectedBuild=" xsd:positiveInteger [0..1]

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

actualBuild="**5** [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> NotificationMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

<tradeReference> PartyTradeIdentifiers </tradeReference> [0..1]

'Optional reference to trade execution.'

<contract> Contract </contract> [1]

'Contract which has been created.'

<paymentDetails> PaymentDetails </paymentDetails> [0..\*]

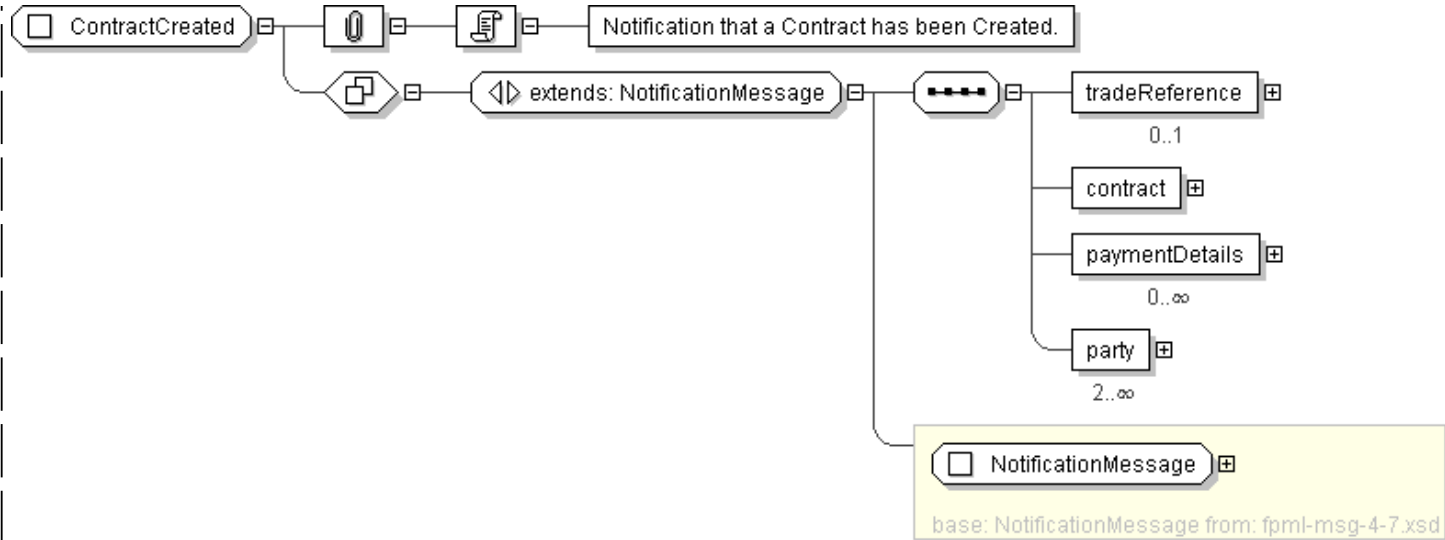
'Details of the payments, like amount breakdowns, settlement information.'

<party> Party </party> [2..\*]

'Identification of the Parties to this Contract.'

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="ContractCreated">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="tradeReference" type=" PartyTradeIdentifiers " minOccurs="0"/>
        <xsd:element name="contract" type=" Contract " />
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractFullTermination**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractFullTermination</b> (by extension)
Sub-types:	None

Name	ContractFullTermination
Abstract	no
Documentation	Notification of an agreed Contract Full Termination. A separate notification message is provided for Contract Partial Termination, which should not result in the contract being Fully Terminated.

XML Instance Representation

<...

```
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
```

*'Indicate which version of the FpML Schema an FpML message adheres to.'*

"

```
expectedBuild=" xsd:positiveInteger [0..1]
```

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

"

```
actualBuild="5 [0..1]
```

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

">

```
<header> NotificationMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<termination> ContractTermination </termination> [1]
```

***'Details of the full termination.'***

```
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
```

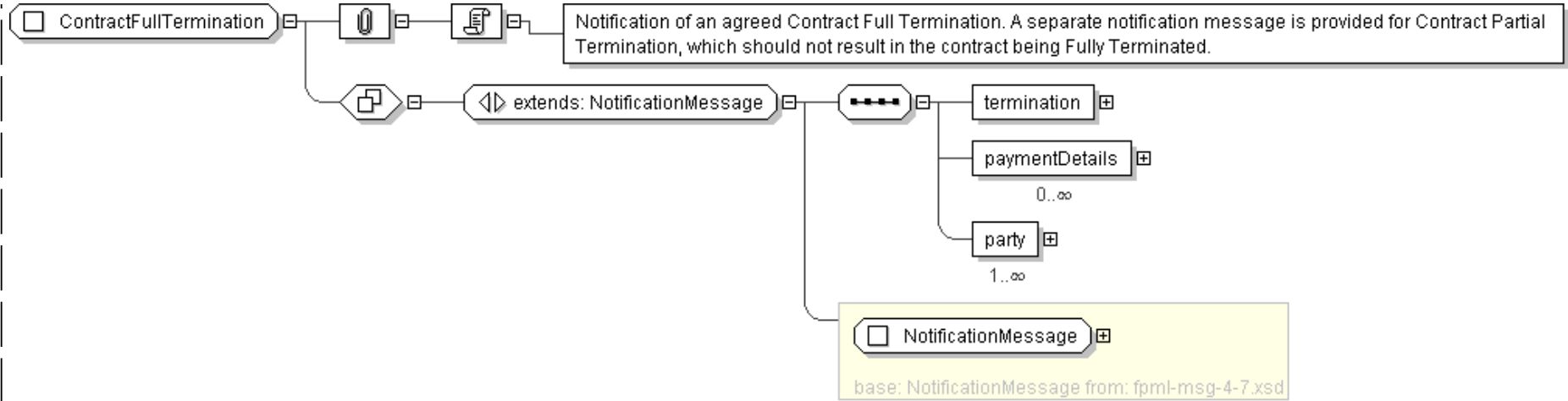
***'Details of the payments, like amount breakdowns, settlement information.'***

```
<party> Party </party> [1..*]
```

***'Identification of the Parties to this Contract.'***

```
</...>
```

## Diagram



Schema Component Representation

```
<xsd:complexType name="ContractFullTermination">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="termination" type=" ContractTermination " />
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ContractFullTerminationCancelled

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractFullTerminationCancelled</b> (by extension)
Sub-types:	None

Name	ContractFullTerminationCancelled
Abstract	no
Documentation	A Notification that a Full Termination event is cancelled.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

"

expectedBuild=" xsd:positiveInteger [0..1]

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

"

actualBuild="**5** [0..1]

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

">

<header> NotificationMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

<contractReference> ContractReference </contractReference> [1]

**'Reference to the contract affected by the cancellation.'**

<termination> ContractTermination </termination> [0..1]

**'Details of the Full Termination being cancelled.'**

<paymentDetails> PaymentDetails </paymentDetails> [0..\*]

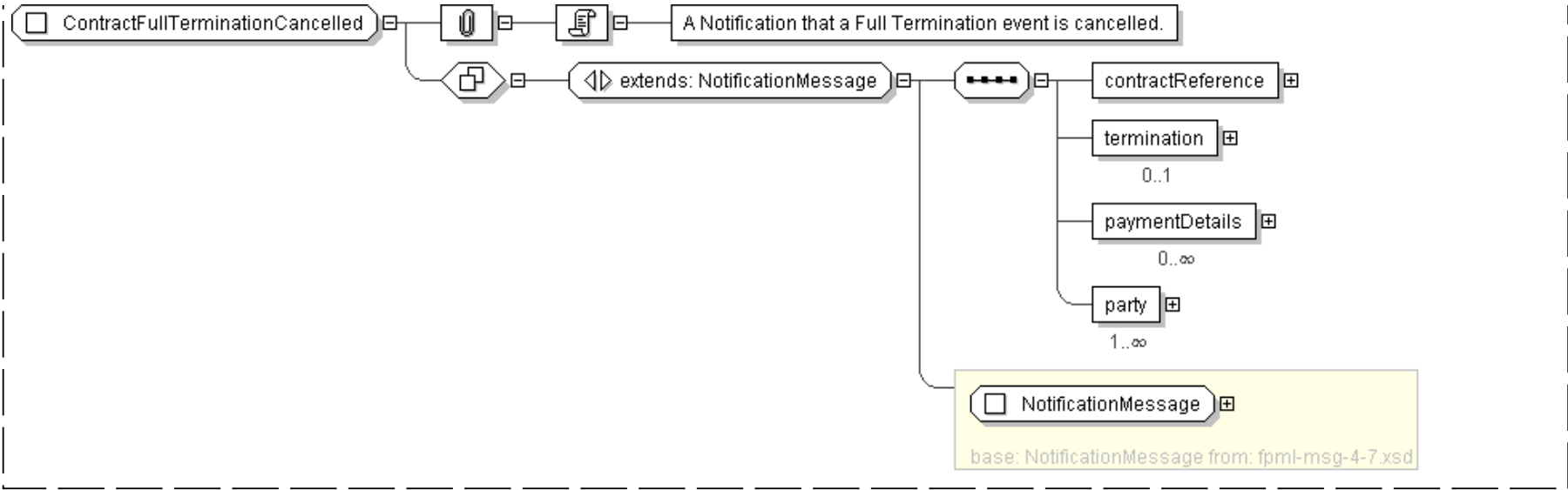
**'Details of the payments, like amount breakdowns, settlement information.'**

<party> Party </party> [1..\*]

**'Identification of the Parties to this Contract.'**

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="ContractFullTerminationCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="contractReference" type=" ContractReference "/>
        <xsd:element name="termination" type=" ContractTermination " minOccurs="0"/>
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractIncreased**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractIncreased</b> (by extension)
Sub-types:	None

Name	ContractIncreased
Abstract	no
Documentation	Notification that a Contract has been Increased.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
```

```
| 7'}) [1]
```

'Indicate which version of the FpML Schema an FpML message adheres to.'

"

```
expectedBuild=" xsd:positiveInteger [0..1]
```

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

```
actualBuild="5 [0..1]
```

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

```
<header> NotificationMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<increase> ChangeContractSize </increase> [1]
```

'Increase Details.'

```
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
```

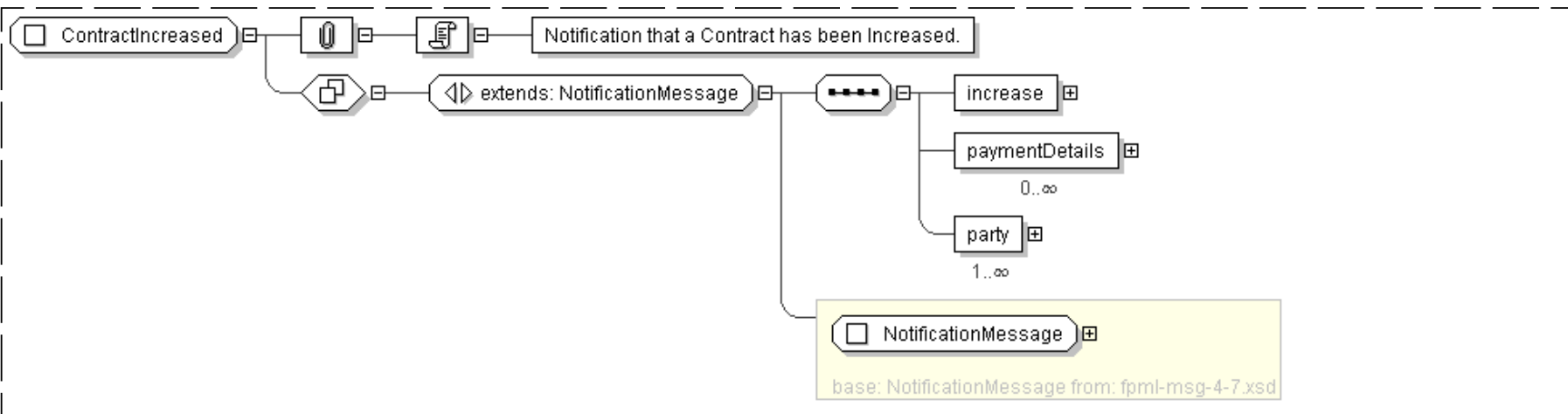
'Details of the payments, like amount breakdowns, settlement information.'

```
<party> Party </party> [1..*]
```

'Identification of the Parties to this Contract.'

```
</...>
```

## Diagram





Schema Component Representation

```
<xsd:complexType name="ContractIncreased">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="increase" type=" ChangeContractSize "/>
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractIncreasedCancelled**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractIncreasedCancelled</b> (by extension)
Sub-types:	None

Name	ContractIncreasedCancelled
Abstract	no
Documentation	A Notification that an Increase event is cancelled.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
```

```

<validation> Validation </validation> [0..*]
<contractReference> ContractReference </contractReference> [1]
'Reference to the contract affected by the cancellation.'

<increase> ChangeContractSize </increase> [0..1]
'Details of the Increase being cancelled.'

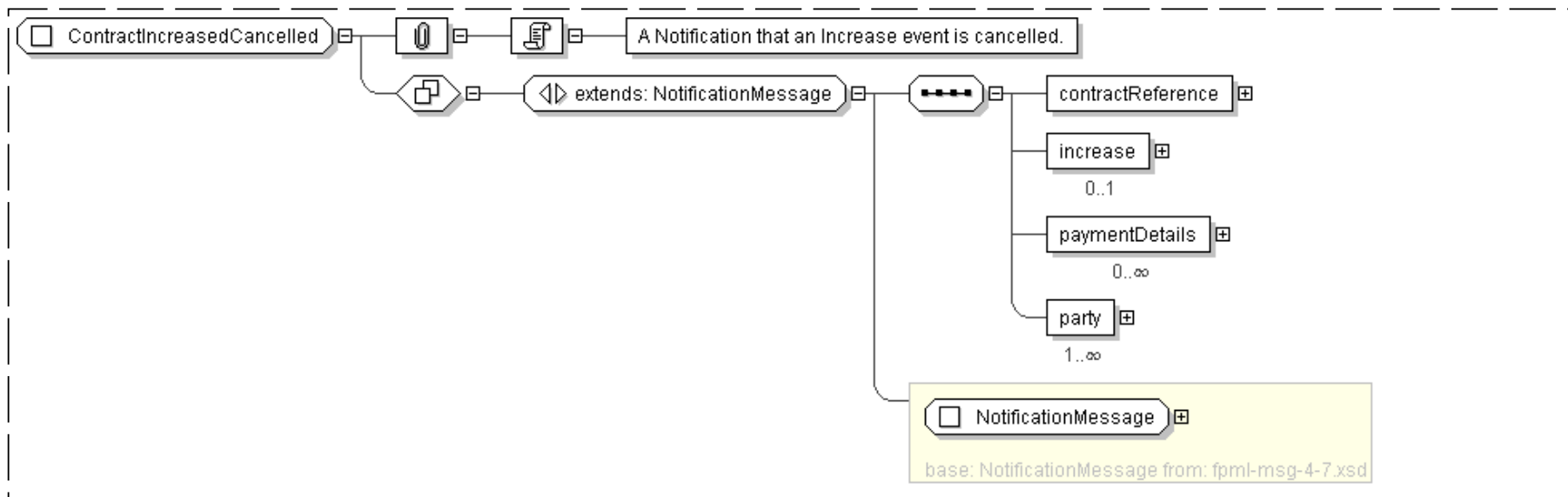
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
'Details of the payments, like amount breakdowns, settlement information.'

<party> Party </party> [1..*]
'Identification of the Parties to this Contract.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="ContractIncreasedCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="contractReference" type=" ContractReference "/>
        <xsd:element name="increase" type=" ChangeContractSize " minOccurs="0"/>
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **ContractNovated**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractNovated</b> (by extension)
Sub-types:	None

Name	ContractNovated
Abstract	no
Documentation	Notification that a Contract has been Novated.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

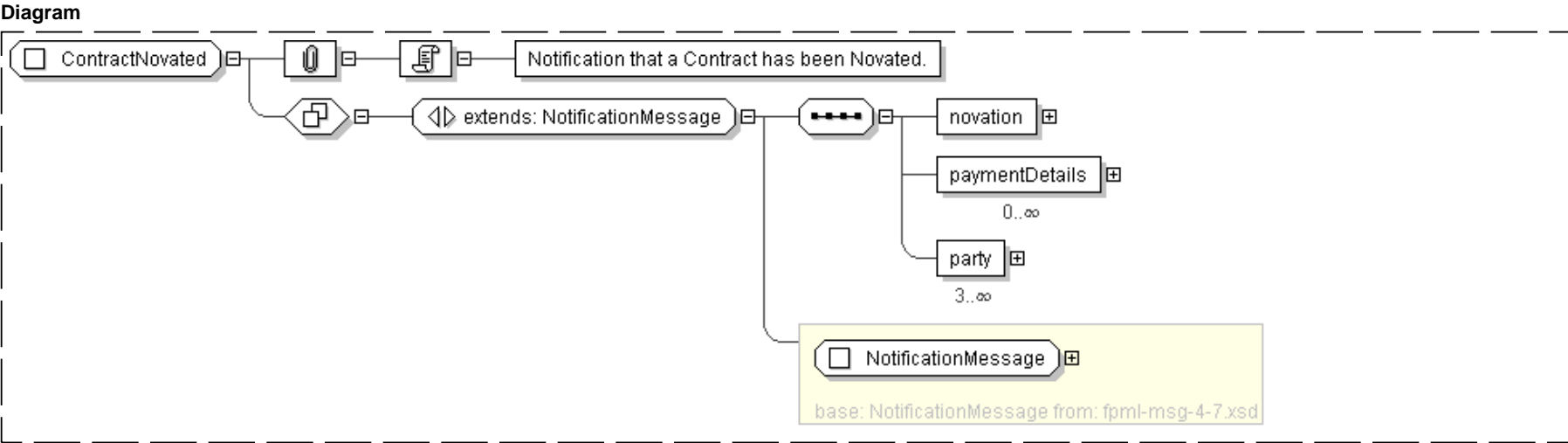
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

  ">
    <header> NotificationMessageHeader </header> [1]
    <validation> Validation </validation> [0..*]
    <novation> ContractNovation </novation> [1]
    'Novation Details.'

    <paymentDetails> PaymentDetails </paymentDetails> [0..*]
    'Details of the payments, like amount breakdowns, settlement information.'

    <party> Party </party> [3..*]
    'Identification of the Parties to this Contract.'

  </...>
```



Schema Component Representation

```
<xsd:complexType name="ContractNovated">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " />
    <xsd:sequence>
      <xsd:element name="novation" type=" ContractNovation " />
      <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
      <xsd:element name="party" type=" Party " minOccurs="3" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **ContractNovatedCancelled**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractNovatedCancelled</b> (by extension)
Sub-types:	None

Name	ContractNovatedCancelled
Abstract	no
Documentation	A Notification that a Novation event is cancelled.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

```

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<contractReference> ContractReference </contractReference> [1]
'Reference to the contract affected by the cancellation.'

<novation> ContractNovation </novation> [0..1]
'Details of the Novation being cancelled.'

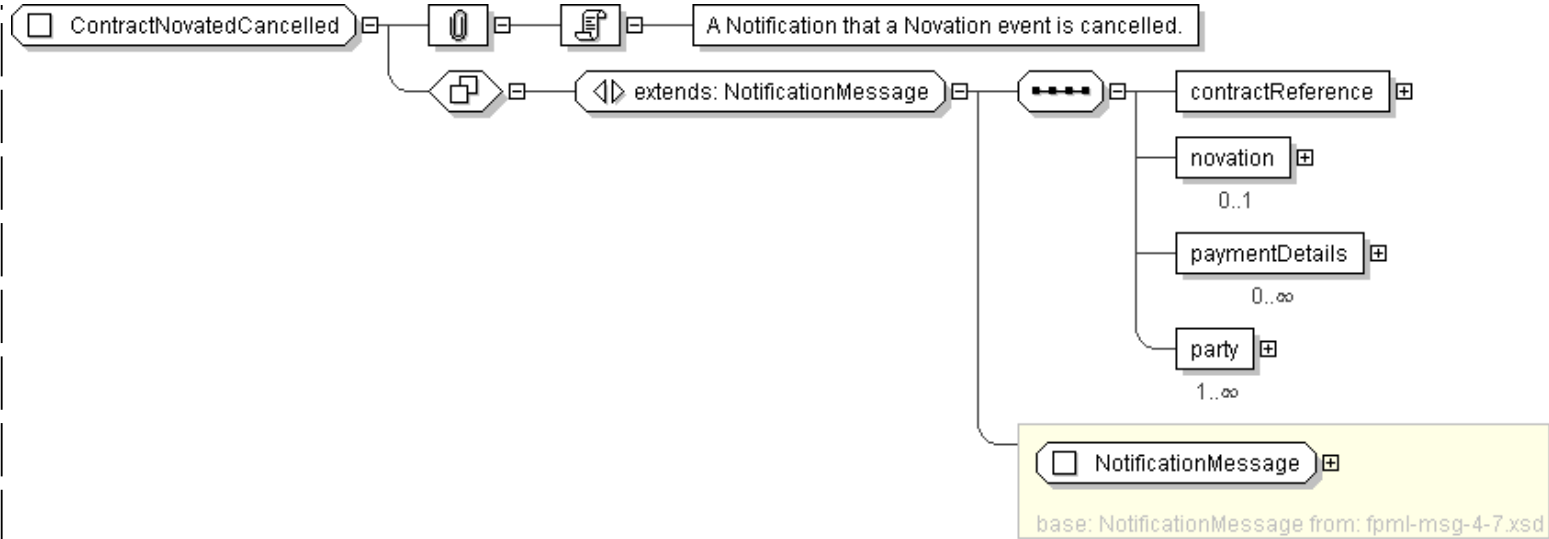
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
'Details of the payments, like amount breakdowns, settlement information.'

<party> Party </party> [1..*]
'Identification of the Parties to this Contract.'

</...>

```

## Diagram



Schema Component Representation

```
<xsd:complexType name="ContractNovatedCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="contractReference" type=" ContractReference "/>
        <xsd:element name="novation" type=" ContractNovation " minOccurs="0"/>
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **ContractPartialTermination**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractPartialTermination</b> (by extension)
Sub-types:	None

Name	ContractPartialTermination
Abstract	no
Documentation	Notification that a Contract has been subject to Partial Termination.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
```

```
7'}) [1]
```

'Indicate which version of the FpML Schema an FpML message adheres to.'

"

```
expectedBuild=" xsd:positiveInteger [0..1]
```

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

```
actualBuild="5 [0..1]
```

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

```
<header> NotificationMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<termination> ChangeContractSize </termination> [1]
```

'Termination details.'

```
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
```

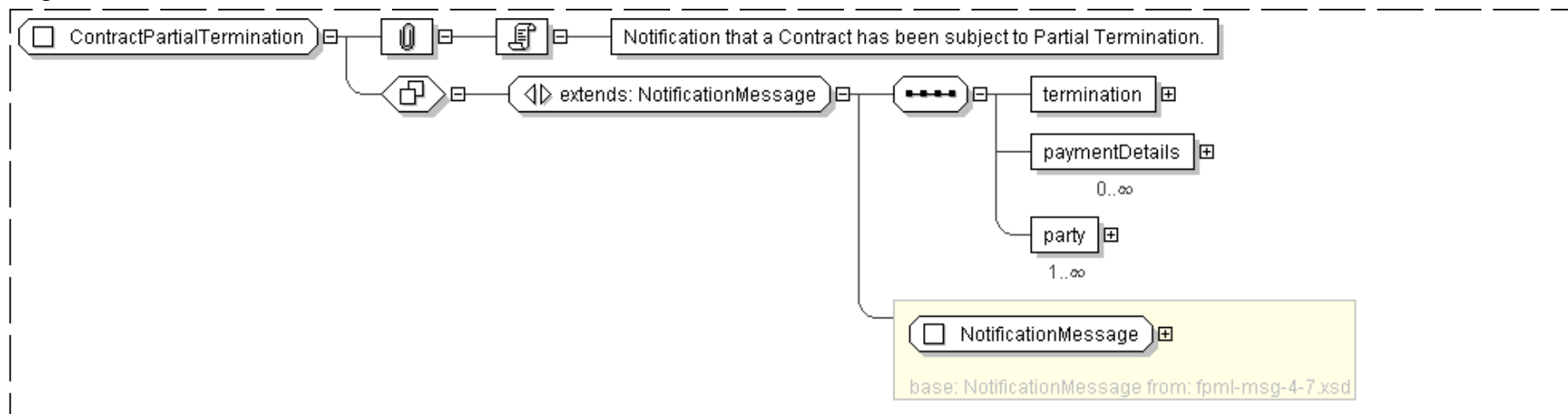
'Details of the payments, like amount breakdowns, settlement information.'

```
<party> Party </party> [1..*]
```

'Identification of the Parties to this Contract.'

```
</...>
```

## Diagram



Schema Component Representation

```
<xsd:complexType name="ContractPartialTermination">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="termination" type=" ChangeContractSize " />
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractPartialTerminationCancelled**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractPartialTerminationCancelled</b> (by extension)
Sub-types:	None

Name	ContractPartialTerminationCancelled
Abstract	no
Documentation	A Notification that a Partial Termination event is cancelled.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
```



```

<validation> Validation </validation> [0..*]
<contractReference> ContractReference </contractReference> [1]
'Reference to the contract affected by the cancellation.'

<termination> ChangeContractSize </termination> [0..1]
'Details of the Termination being cancelled.'

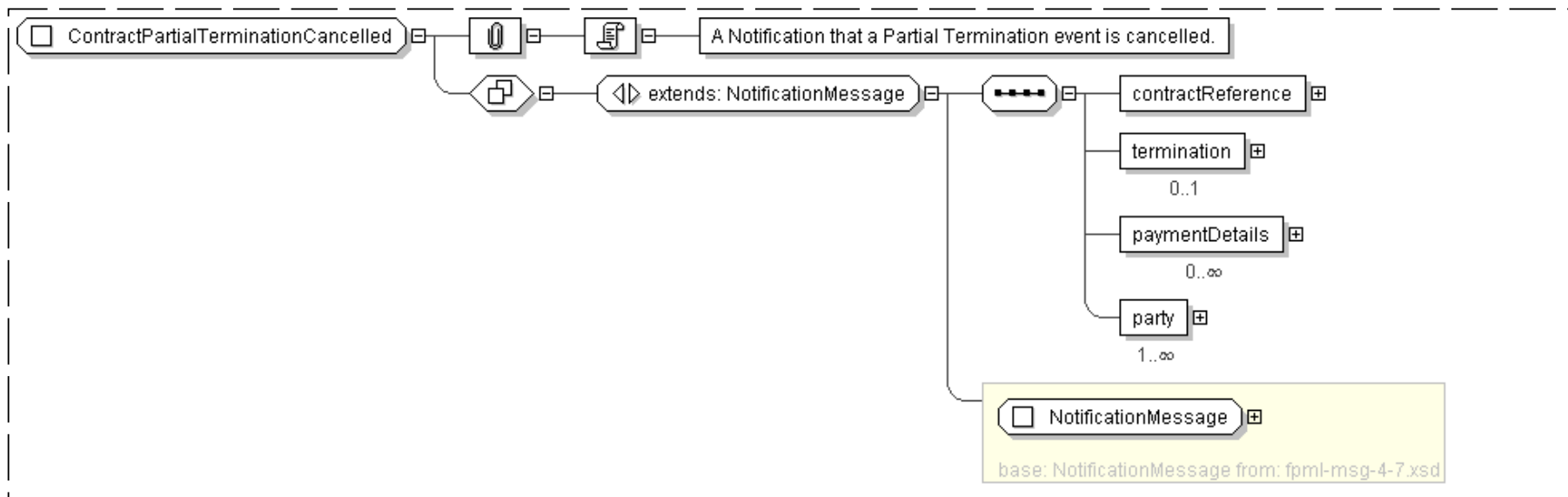
<paymentDetails> PaymentDetails </paymentDetails> [0..*]
'Details of the payments, like amount breakdowns, settlement information.'

<party> Party </party> [1..*]
'Identification of the Parties to this Contract.'

```

&lt;/...&gt;

## Diagram



## Schema Component Representation

```

<xsd:complexType name="ContractPartialTerminationCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="contractReference" type=" ContractReference " />
        <xsd:element name="termination" type=" ChangeContractSize " minOccurs="0"/>
        <xsd:element name="paymentDetails" type=" PaymentDetails " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **ContractReferenceMessage**

Super-types:	<a href="#">NotificationMessage</a> < <b>ContractReferenceMessage</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">ContractCancelled</a> (by extension)</li></ul>

Name	ContractReferenceMessage
Abstract	yes
Documentation	Abstract base class for Contract notification messages that require Contract Reference only.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

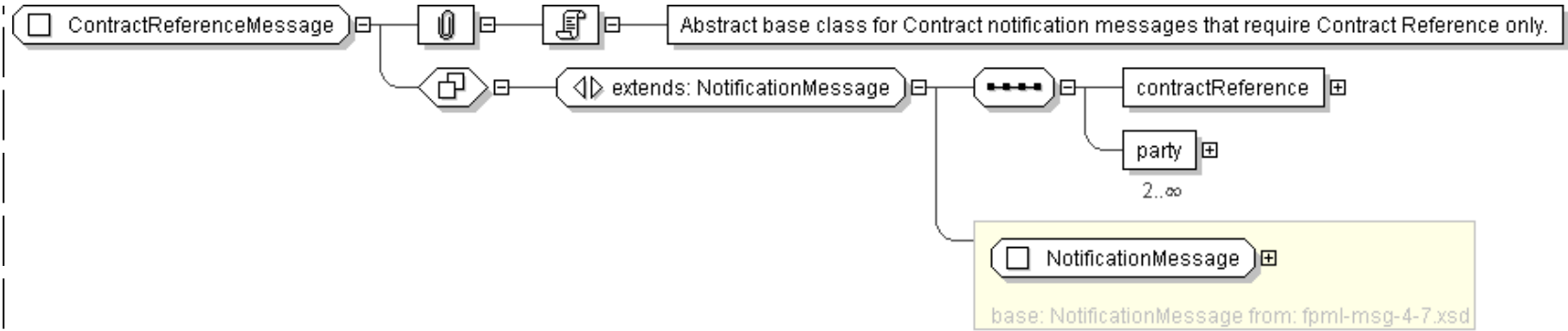
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <contractReference> ContractReference </contractReference> [1]
  'Identification of a single Contract which is the subject of this message. Each Party
  may provide one to many identifiers for this contract.'

  <party> Party </party> [2..*]
  'Identification of the Parties to this Contract.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractReferenceMessage" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " />
    <xsd:sequence>
      <xsd:element name="contractReference" type=" ContractReference " />
      <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **IndexChange**

Super-types:	<a href="#">ChangeEvent</a> < <b>IndexChange</b> (by extension)
Sub-types:	None

Name	IndexChange
Used by (from the same schema document)	Element <a href="#">indexChange</a>
Abstract	no
Documentation	Defines index factor information when credit events occur on index constituents.

XML Instance Representation

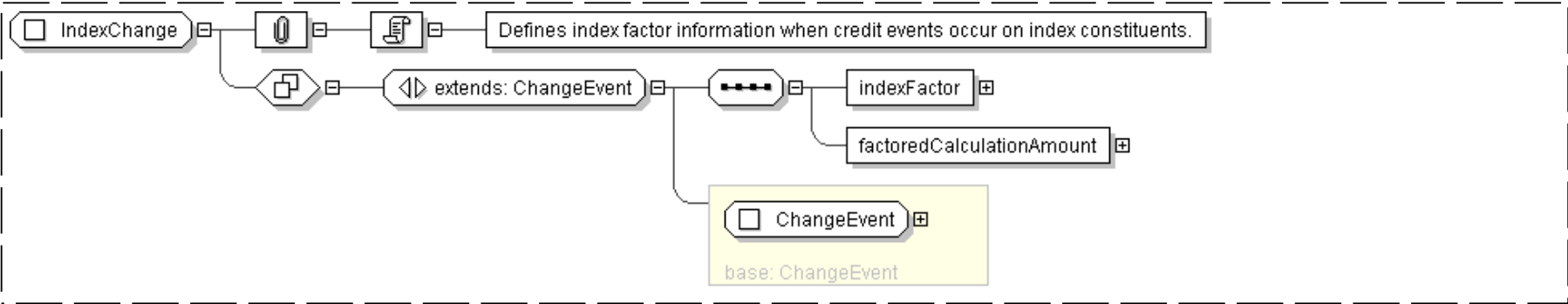
```
<...>
  <indexFactor> RestrictedPercentage </indexFactor> [1]
  'The index version factor, expressed as a decimal, that multiplied by the original
  notional amount yields the notional amount covered by the seller. A factor of 75% would
  be represented as 0.75.'

  <factoredCalculationAmount> Money </factoredCalculationAmount> [1]
  'This relates only to CDS index contracts and represents the factored notional amount,
  obtained by multiplying the index factor to the contract notional amount. See
```

*indexFactor* description above.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="IndexChange">
  <xsd:complexContent>
    <xsd:extension base="ChangeEvent">
      <xsd:sequence>
        <xsd:element name="indexFactor" type="RestrictedPercentage"/>
        <xsd:element name="factoredCalculationAmount" type="Money"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:      [Address](#) < AusAddress (by extension)

Sub-types:      • [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <u>AusStates</u> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
---

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" <u>Address</u> "&gt; &lt;sequence&gt; &lt;element name="state" type=" <u>AusStates</u> "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able

to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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Generated by [oXygen/> XML Editor](#) using a modified version of [xs3p](#) that adds schema diagrams and chunking support.

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 2527 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-eg-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 2527 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-eg-shared-4-7.xsd" />
  ...
</xsd:schema>
```

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## Global Declarations

### Element: correlationSwap

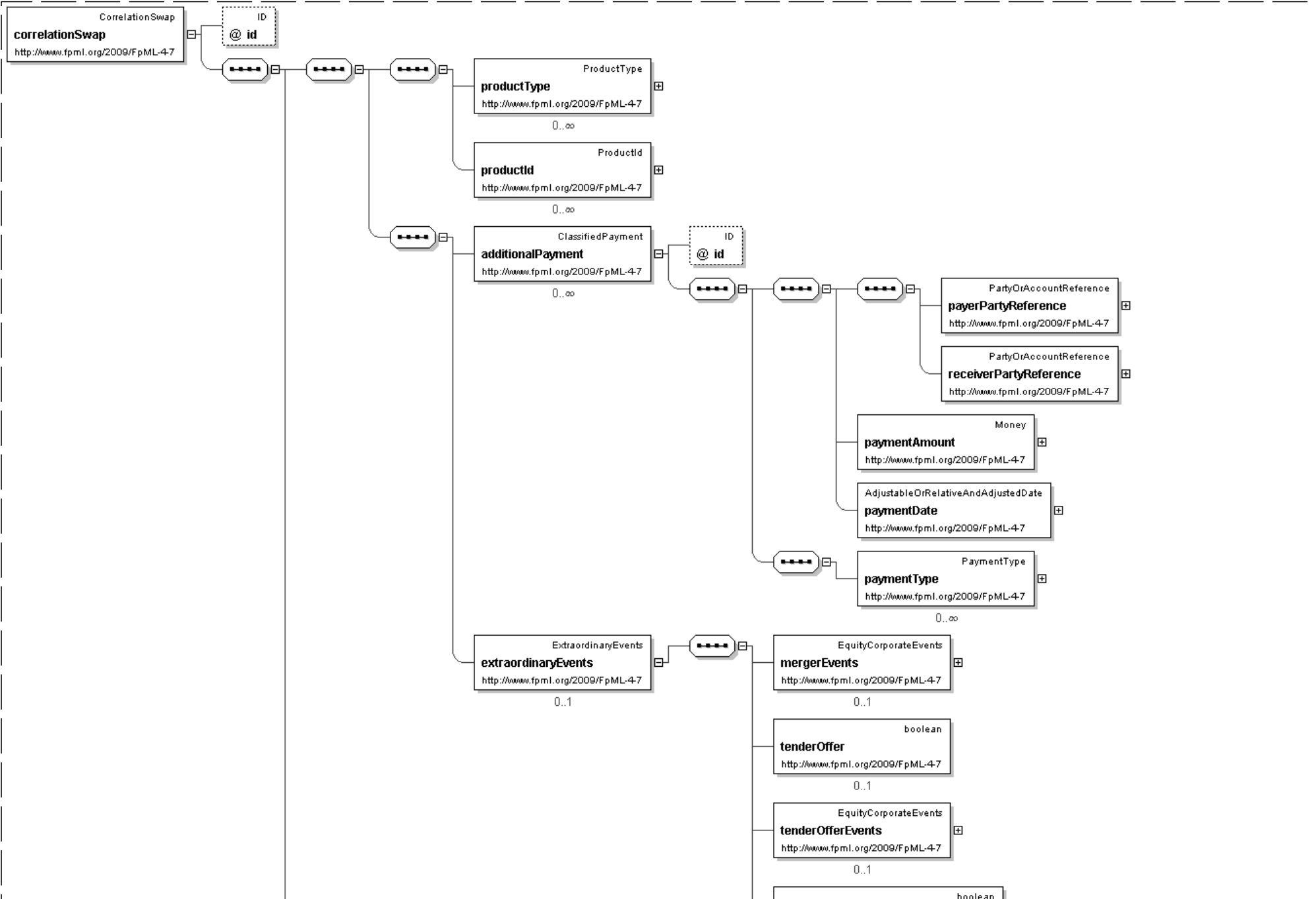
- This element can be used wherever the following element is referenced:
  - [product](#)

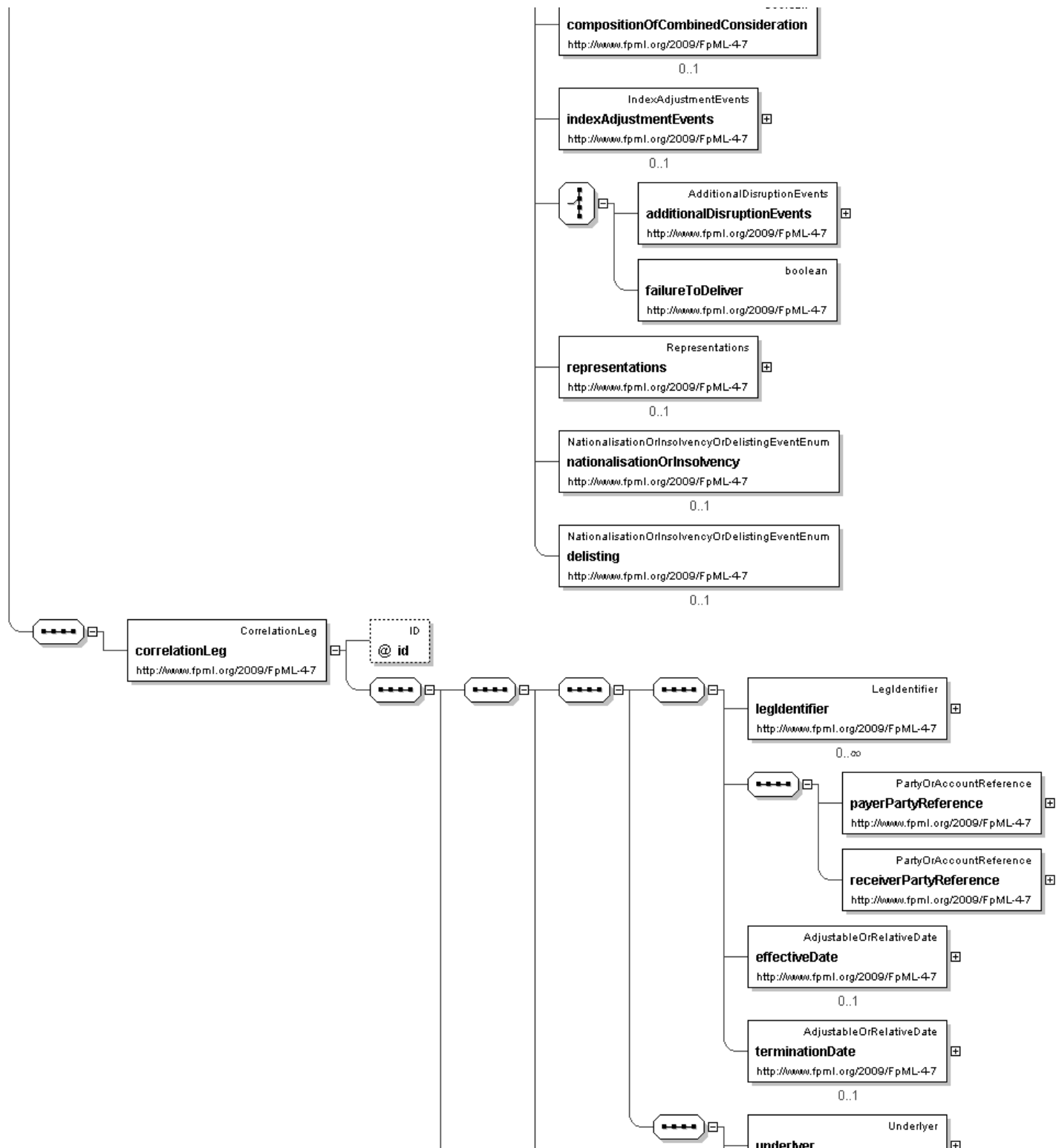
Name	correlationSwap
------	-----------------

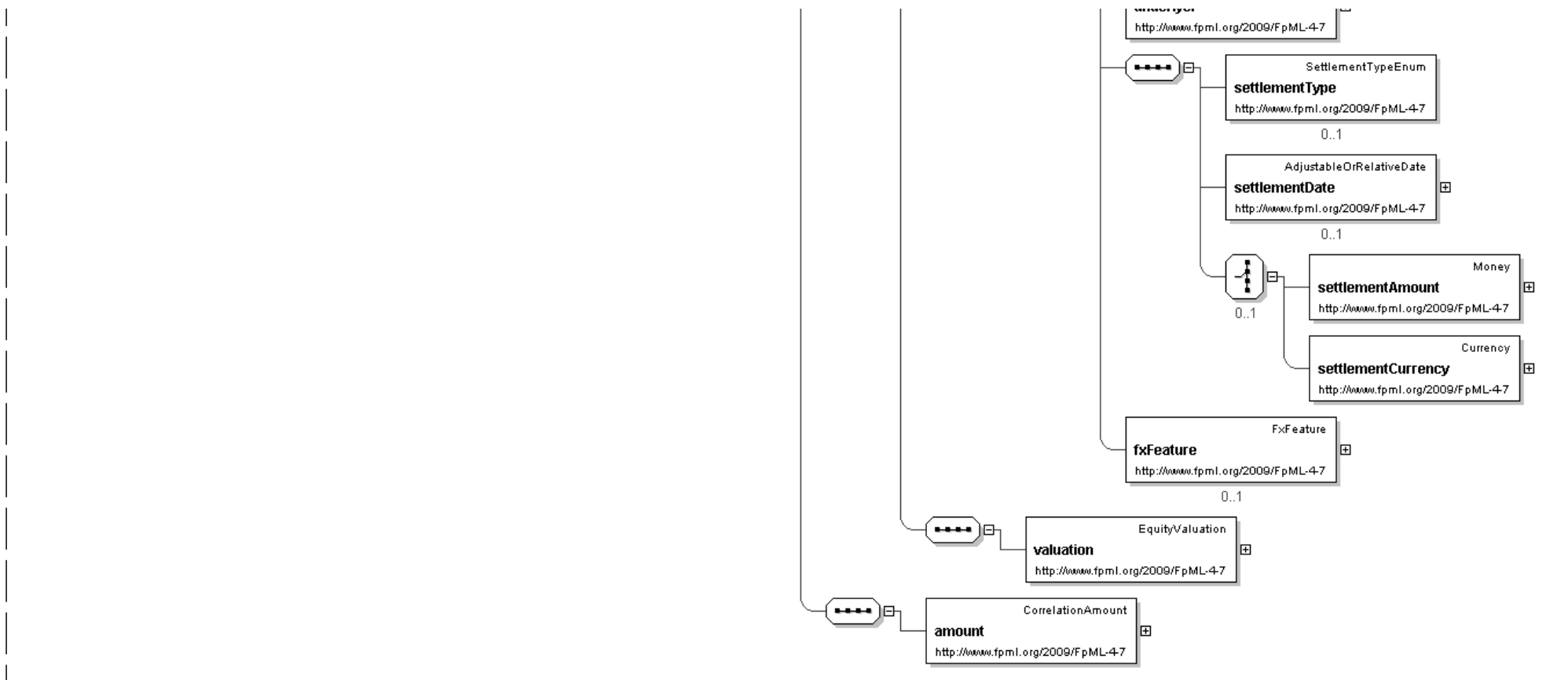


Type	<a href="#">CorrelationSwap</a>
Nilable	no
Abstract	no
Documentation	Specifies the structure of a correlation swap.

Logical Diagram







### XML Instance Representation

```

<correlationSwap
  id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

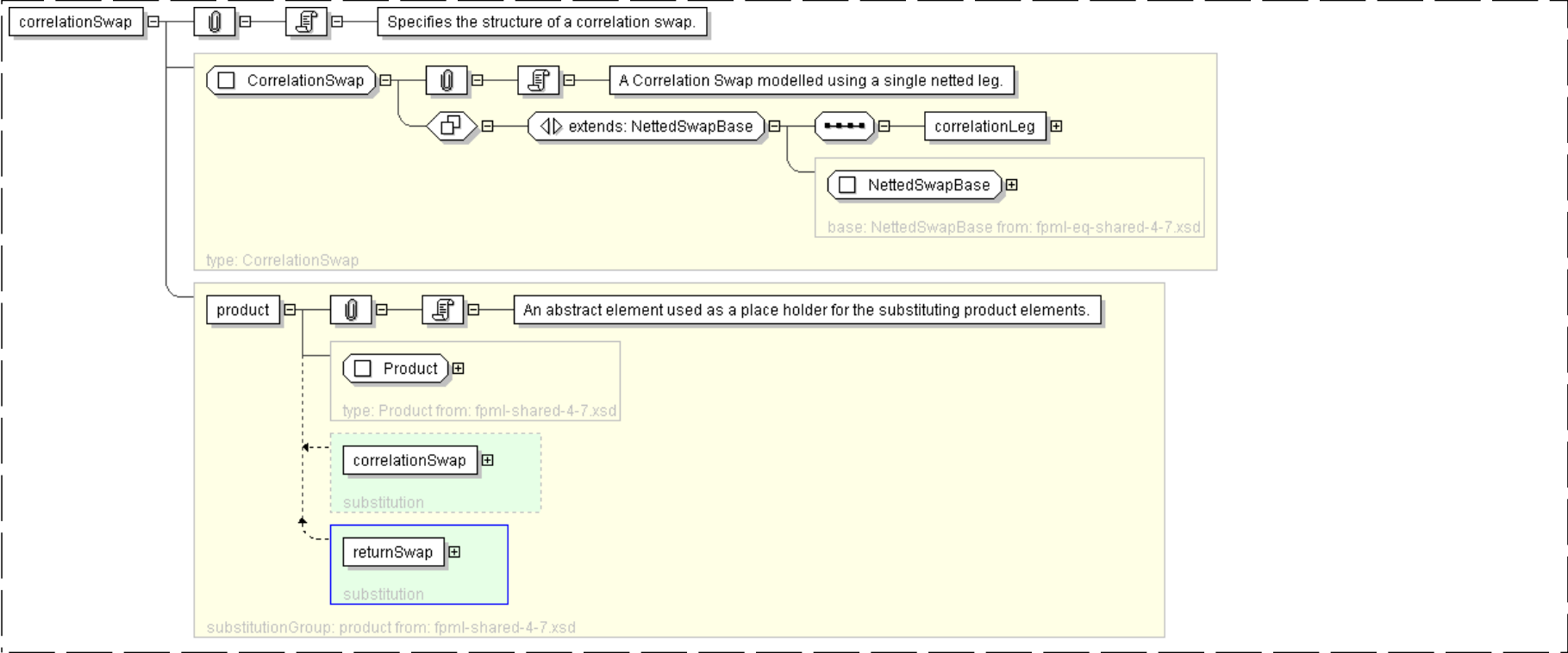
  <additionalPayment> ClassifiedPayment </additionalPayment> [0..*]
  'Specifies additional payment(s) between the principal parties to the netted swap.'

  <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
  'Where the underlying is shares, specifies events affecting the issuer of those shares that
  may require the terms of the transaction to be adjusted.'

  <correlationLeg> CorrelationLeg </correlationLeg> [1]
  'Correlation Leg. Correlation Buyer is deemed to be the Equity Amount Receiver,
  Correlation Seller is deemed to be the Equity Amount Payer.'

</correlationSwap>
  
```

Diagram



Schema Component Representation

```
<xsd:element name="correlationSwap" type="CorrelationSwap" substitutionGroup="product"/>
```

[top](#)

Global Definitions

Complex Type: CorrelationAmount

Super-types:	<a href="#">CalculatedAmount</a> < <b>CorrelationAmount</b> (by extension)
Sub-types:	None

Name	CorrelationAmount
Used by (from the same schema document)	Complex Type <a href="#">CorrelationLeg</a>
Abstract	no
Documentation	Correlation Amount.

XML Instance Representation

```
<...>
  <calculationDates> AdjustableRelativeOrPeriodicDates </calculationDates> [0..1]
  'Specifies the date on which a calculation or an observation will be performed for the
  purpose of calculating the amount.'
  <observationStartDate> AdjustableOrRelativeDate </observationStartDate> [0..1]
  'The start of the period over which observations are made which are used in the
```

calculation Used when the observation start date differs from the trade date such as for forward starting swaps.'

<optionsExchangeDividends> xsd:boolean </optionsExchangeDividends> [0..1]  
'If present and true, then options exchange dividends are applicable.'

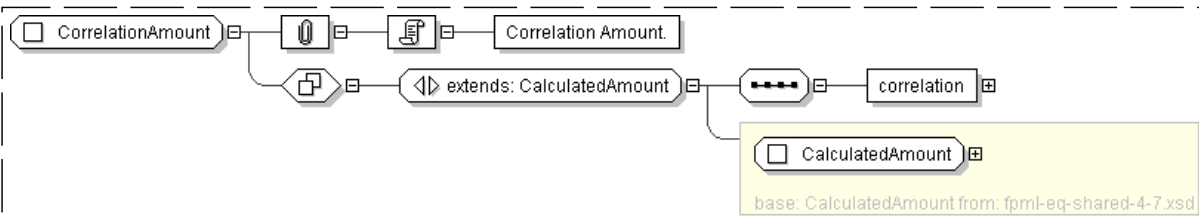
<additionalDividends> xsd:boolean </additionalDividends> [0..1]  
'If present and true, then additional dividends are applicable.'

<allDividends> xsd:boolean </allDividends> [0..1]  
'Represents the European Master Confirmation value of \'All Dividends\' which, when applicable, signifies that, for a given Ex-Date, the daily observed Share Price for that day is adjusted (reduced) by the cash dividend and/or the cash value of any non cash dividend per Share (including Extraordinary Dividends) declared by the Issuer.'

<correlation> Correlation </correlation> [1]  
'Specifies Correlation.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CorrelationAmount">
  <xsd:complexContent>
    <xsd:extension base=" CalculatedAmount ">
      <xsd:sequence>
        <xsd:element name="correlation" type=" Correlation "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CorrelationLeg**

Super-types:	<a href="#">DirectionalLegUnderlyerValuation</a> < <b>CorrelationLeg</b> (by extension)
Sub-types:	None
Name	CorrelationLeg
Used by (from the same schema document)	Complex Type <a href="#">CorrelationSwap</a>
Abstract	no
Documentation	A type describing return which is driven by a Correlation calculation.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]">
```

```
<legIdentifier> LegIdentifier </legIdentifier> [0..*]
'Version aware identification of this leg.'

<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

<effectiveDate> AdjustableOrRelativeDate </effectiveDate> [0..1]
'Specifies the effective date of this leg of the swap. When defined in relation to a
date specified somewhere else in the document (through the relativeDate component),
this element will typically point to the effective date of the other leg of the swap.'

<terminationDate> AdjustableOrRelativeDate </terminationDate> [0..1]
'Specifies the termination date of this leg of the swap. When defined in relation to a
date specified somewhere else in the document (through the relativeDate component),
this element will typically point to the termination date of the other leg of the swap.'

<underlyer> Underlyer </underlyer> [1]
'Specifies the underlyer of the leg.'

<settlementType> SettlementTypeEnum </settlementType> [0..1]
<settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
Start Group: SettlementAmountOrCurrency.model [0..1]
Start Choice [1]
  <settlementAmount> Money </settlementAmount> [1]
  'Settlement Amount'

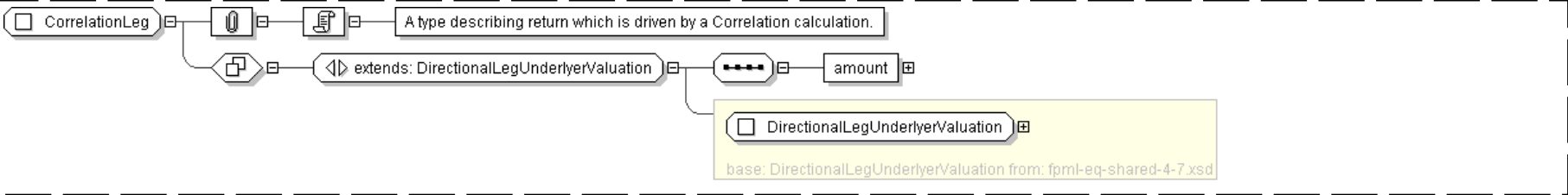
  <settlementCurrency> Currency </settlementCurrency> [1]
  'Settlement Currency for use where the Settlement Amount cannot be known in advance'
End Choice
End Group: SettlementAmountOrCurrency.model
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features.'

<valuation> EquityValuation </valuation> [1]
'Valuation of the underlyer.'

<amount> CorrelationAmount </amount> [1]
'Specifies, in relation to each Equity Payment Date, the Equity Amount to which the
Equity Payment Date relates. Unless otherwise specified, this term has the meaning defined
in the ISDA 2002 Equity Derivatives Definitions.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CorrelationLeg">
  <xsd:complexContent>
    <xsd:extension base=" DirectionalLegUnderlyerValuation " >
      <xsd:sequence>
        <xsd:element name="amount" type=" CorrelationAmount " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CorrelationSwap**

Super-types:	<a href="#">NettedSwapBase</a> < <b>CorrelationSwap</b> (by extension)
Sub-types:	None

Name	CorrelationSwap
Used by (from the same schema document)	Element <a href="#">correlationSwap</a>
Abstract	no
Documentation	A Correlation Swap modelled using a single netted leg.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

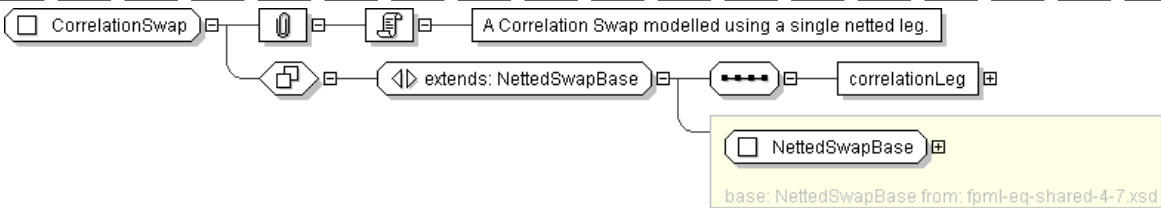
  <additionalPayment> ClassifiedPayment </additionalPayment> [0..*]
  'Specifies additional payment(s) between the principal parties to the netted swap.'

  <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
  'Where the underlying is shares, specifies events affecting the issuer of those shares that
  may require the terms of the transaction to be adjusted.'

  <correlationLeg> CorrelationLeg </correlationLeg> [1]
  'Correlation Leg. Correlation Buyer is deemed to be the Equity Amount Receiver,
  Correlation Seller is deemed to be the Equity Amount Payer.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CorrelationSwap">
  <xsd:complexContent>
    <xsd:extension base=" NettedSwapBase " >
      <xsd:sequence>
        <xsd:element name="correlationLeg" type=" CorrelationLeg " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates " />

```



```
<element name="postcode">
  <simpleType>
    <restriction base=" string ">
      <pattern value="[1-9][0-9]{3}" />
    </restriction>
  </simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia" />
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Niltable** (Applies to element declarations). If an element declaration is niltable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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Generated by <Oxygen/> XML Editor using a modified version of [xs3p](#) that adds schema diagrams and chunking support.

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-posttrade-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>

fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-posttrade-4-7.xsd" />
  ...
</xsd:schema>
```

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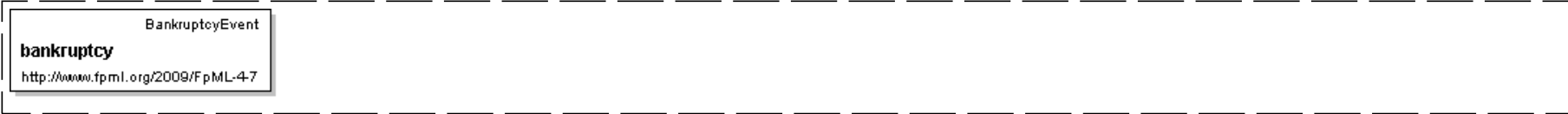
Global Declarations

Element: **bankruptcy**

- This element can be used wherever the following element is referenced:
  - [creditEvent](#)

Name	bankruptcy
Type	<a href="#">BankruptcyEvent</a>
Nilable	no
Abstract	no

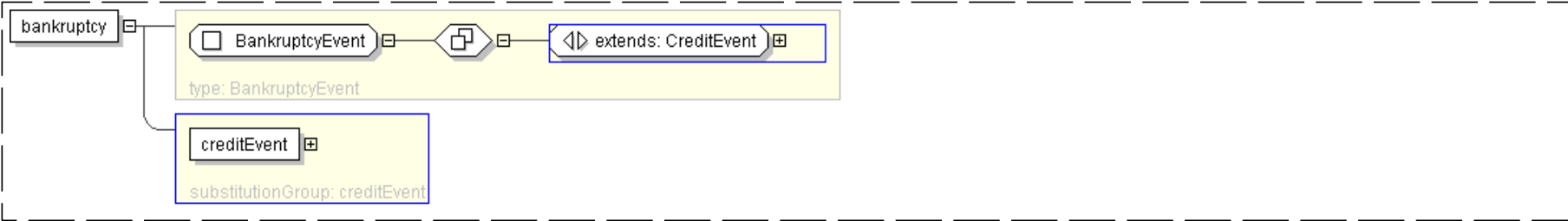
Logical Diagram



XML Instance Representation

```
<bankruptcy/>
```

Diagram



Schema Component Representation

```
<xsd:element name="bankruptcy" type="BankruptcyEvent" substitutionGroup="creditEvent"/>
```

Element: **creditEvent**

- The following elements can be used wherever this element is referenced:
  - [bankruptcy](#)
  - [failureToPay](#)
  - [obligationAcceleration](#)
  - [obligationDefault](#)
  - [repudiationMoratorium](#)
  - [restructuring](#)

Name	creditEvent
Used by (from the same schema document)	Complex Type <a href="#">CreditEventNoticeDocument</a>
Type	<a href="#">CreditEvent</a>
Nilable	no
Abstract	yes

Logical Diagram

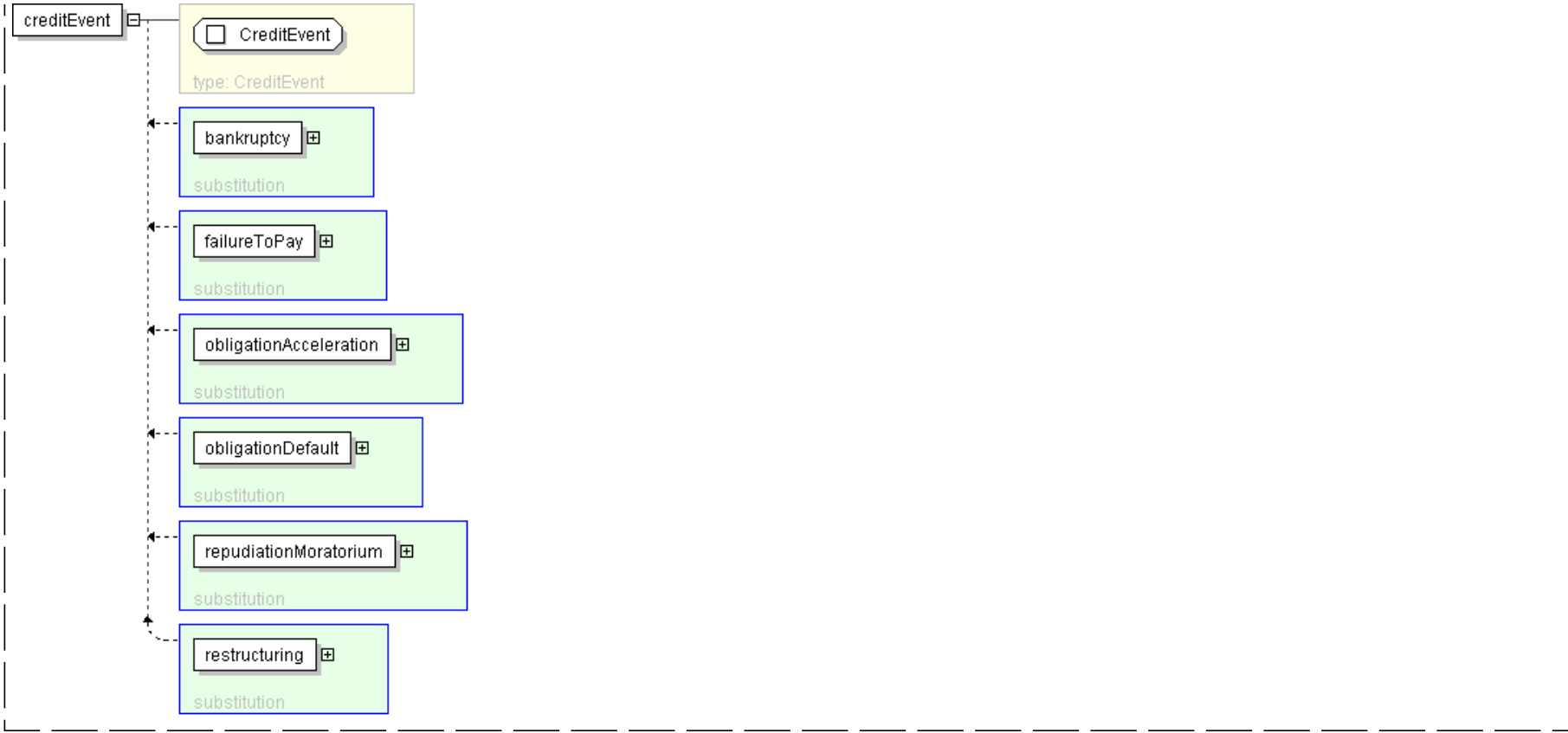


XML Instance Representation

```
<creditEvent/>
```

Diagram





Schema Component Representation

```
<xsd:element name="creditEvent" type="CreditEvent" abstract="true"/>
```

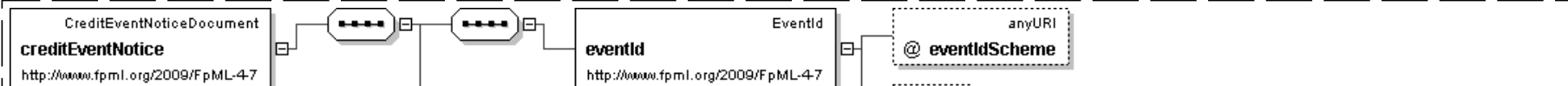
[top](#)

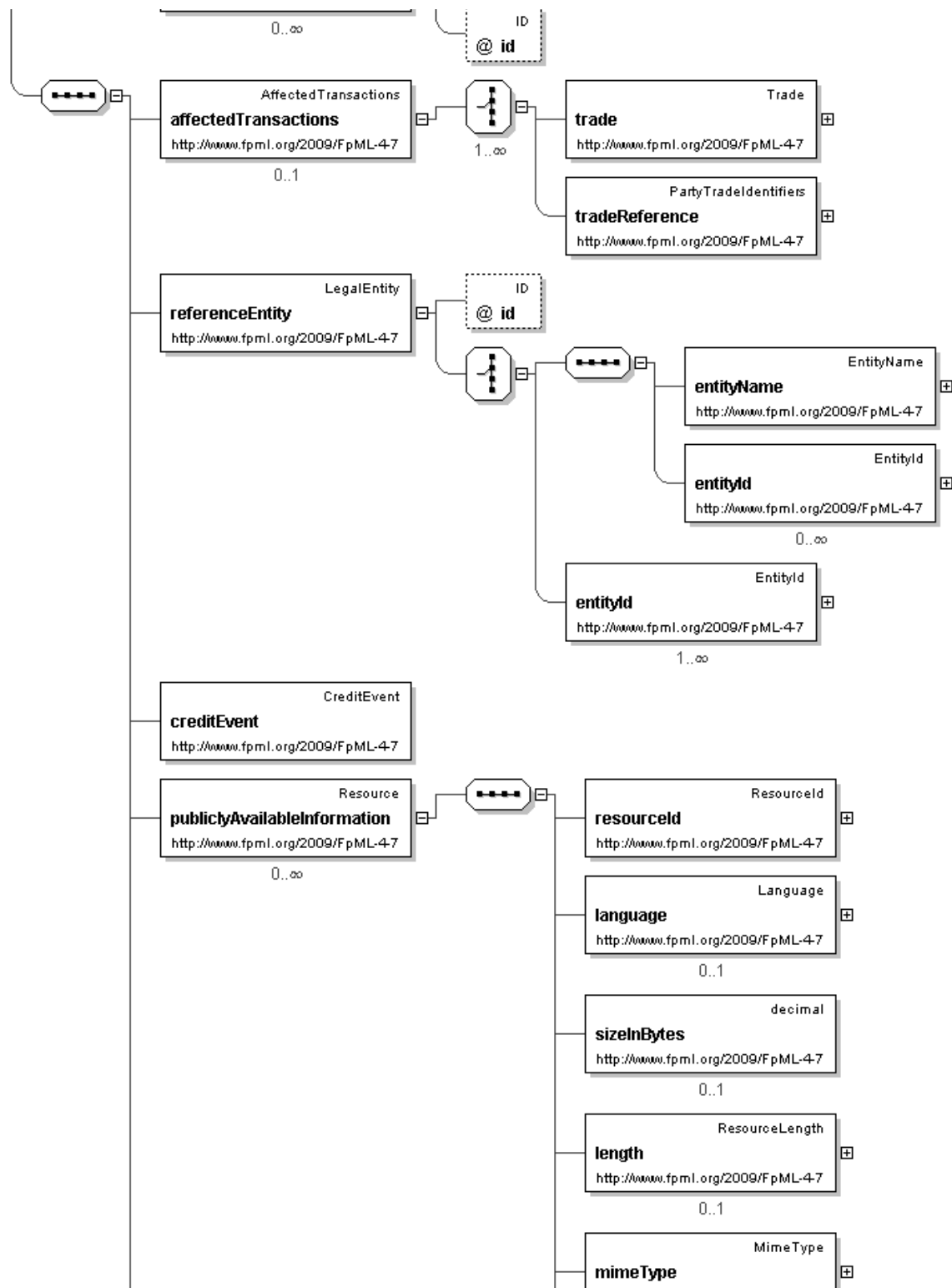
Element: **creditEventNotice**

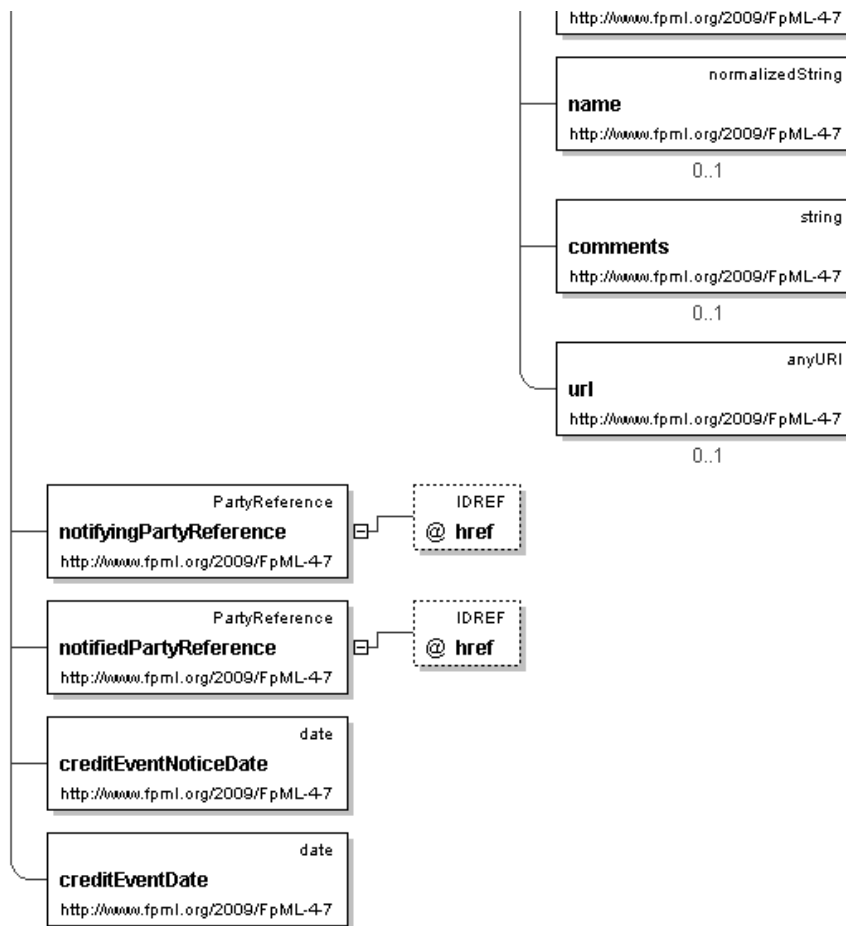
- This element can be used wherever the following element is referenced:
  - [event](#)

Name	creditEventNotice
Type	<a href="#">CreditEventNoticeDocument</a>
Nilable	no
Abstract	no
Documentation	A global element used to hold CENs.

Logical Diagram







## XML Instance Representation

```
<creditEventNotice>
  <eventId> EventId </eventId> [0..*]
  ''

  <affectedTransactions> AffectedTransactions </affectedTransactions> [0..1]
  'Trades affected by this event.'

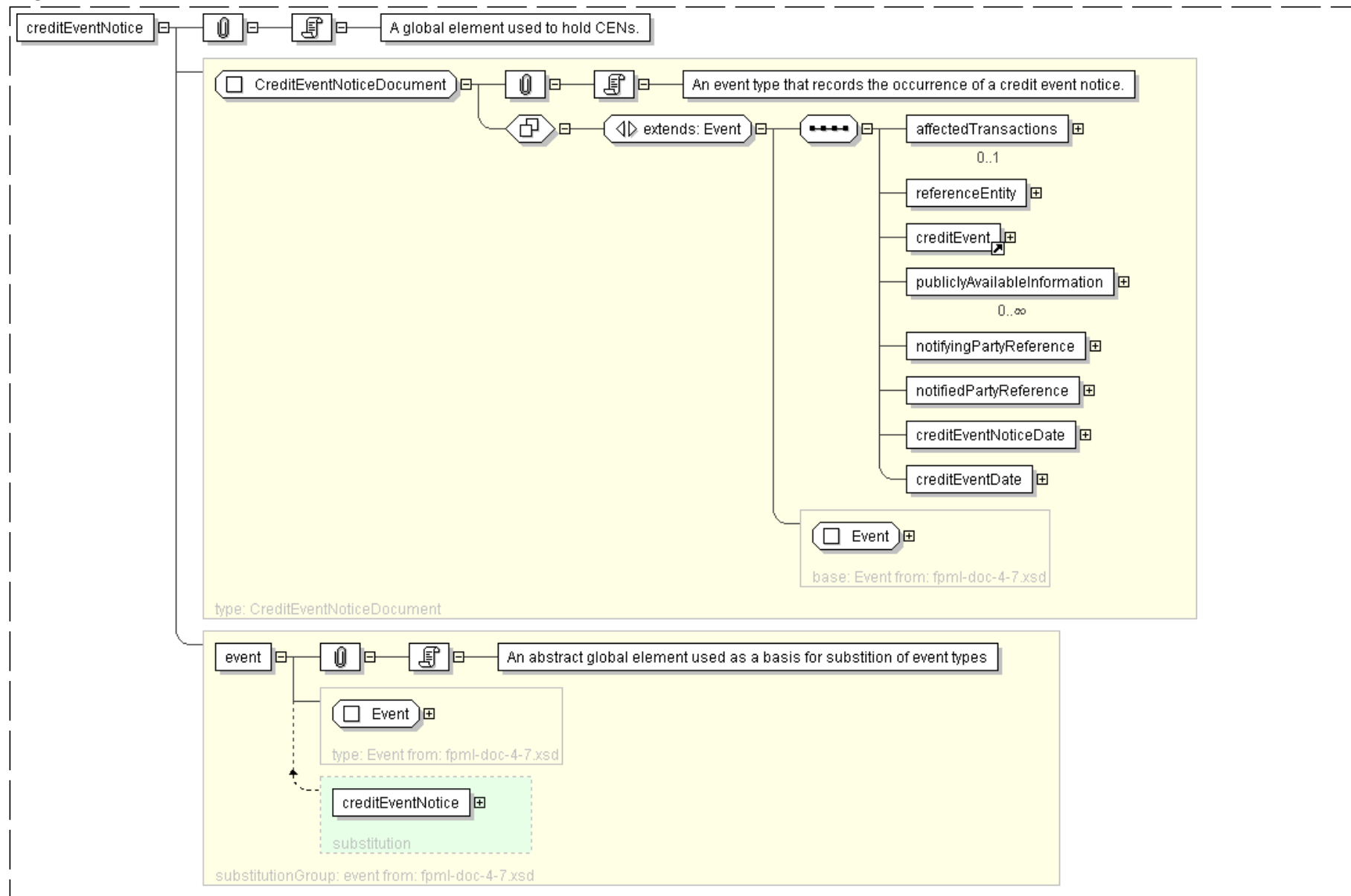
  <referenceEntity> LegalEntity </referenceEntity> [1]
  <creditEvent> ... </creditEvent> [1]
  <publiclyAvailableInformation> Resource </publiclyAvailableInformation> [0..*]
  'A public information source, e.g. a particular newspaper or electronic news service, that
  may publish relevant information used in the determination of whether or not a credit event
  has occurred.'

  <notifyingPartyReference> PartyReference </notifyingPartyReference> [1]
  <notifiedPartyReference> PartyReference </notifiedPartyReference> [1]
  <creditEventNoticeDate> xsd:date </creditEventNoticeDate> [1]
  <creditEventDate> xsd:date </creditEventDate> [1]
```



```
</creditEventNotice>
```

## Diagram



## Schema Component Representation

```
<xsd:element name="creditEventNotice" type="CreditEventNoticeDocument"
  " substitutionGroup="event"/>
```

Element: **failureToPay**

- This element can be used wherever the following element is referenced:
  - [creditEvent](#)

Name	failureToPay
Type	<a href="#">FailureToPayEvent</a>
Nilable	no
Abstract	no

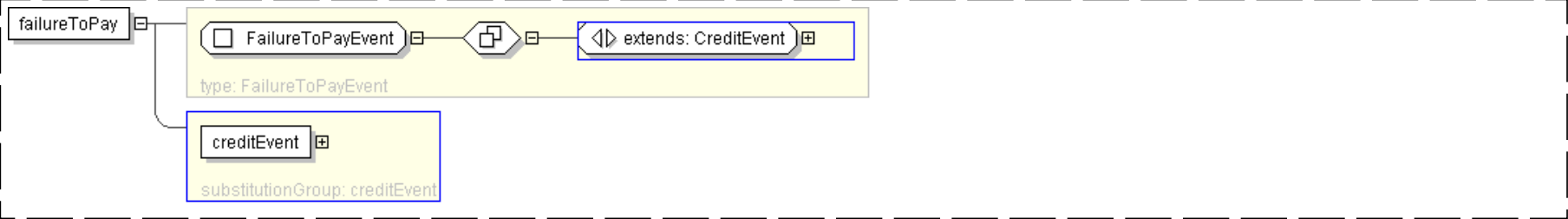
Logical Diagram



XML Instance Representation

```
<failureToPay/>
```

Diagram



Schema Component Representation

```
<xsd:element name="failureToPay" type="FailureToPayEvent" substitutionGroup="creditEvent"/>
```

[top](#)

Element: **obligationAcceleration**

- This element can be used wherever the following element is referenced:
  - [creditEvent](#)

Name	obligationAcceleration
Type	<a href="#">ObligationAccelerationEvent</a>
Nilable	no
Abstract	no

Logical Diagram

ObligationAccelerationEvent

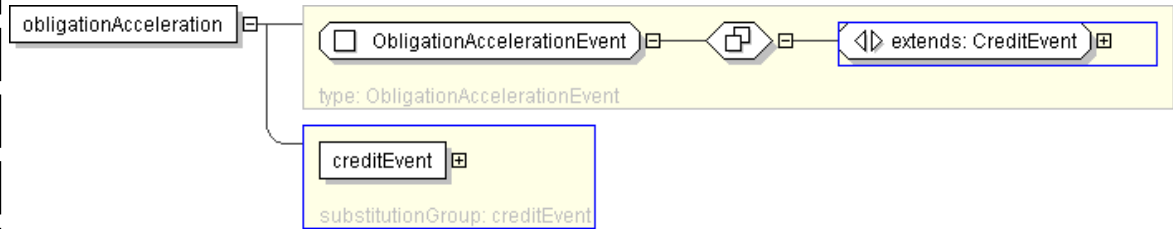
**obligationAcceleration**

http://www.fpml.org/2009/FpML-4-7

XML Instance Representation

<obligationAcceleration/>

Diagram



Schema Component Representation

```
<xsd:element name="obligationAcceleration" type="ObligationAccelerationEvent" substitutionGroup="creditEvent"/>
```

[top](#)

Element: **obligationDefault**

- This element can be used wherever the following element is referenced:
  - [creditEvent](#)

Name	obligationDefault
Type	<a href="#">ObligationDefaultEvent</a>
Nilable	no
Abstract	no

Logical Diagram

ObligationDefaultEvent

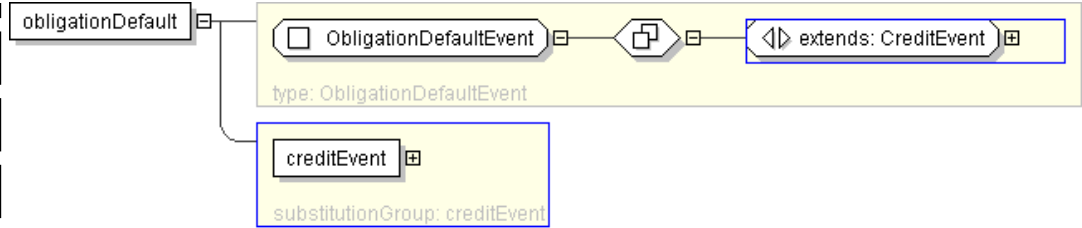
**obligationDefault**

http://www.fpml.org/2009/FpML-4-7

XML Instance Representation

<obligationDefault/>

Diagram



Schema Component Representation

```
<xsd:element name="obligationDefault" type="ObligationDefaultEvent"
  " substitutionGroup="creditEvent"/>
```

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Element: repudiationMoratorium

- This element can be used wherever the following element is referenced:
  - [creditEvent](#)

Name	repudiationMoratorium
Type	<a href="#">RepudiationMoratoriumEvent</a>
Nilable	no
Abstract	no

Logical Diagram

RepudiationMoratoriumEvent

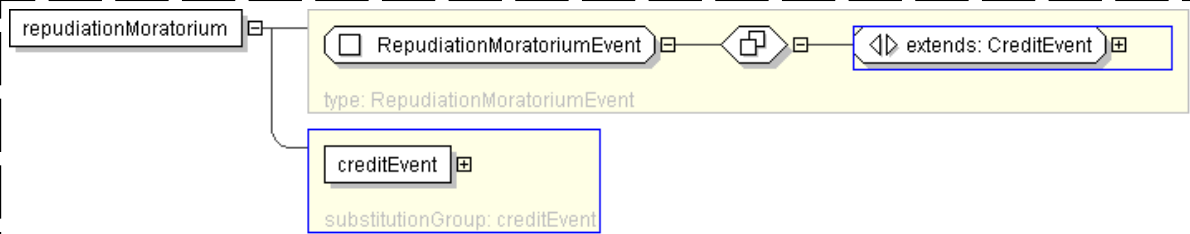
**repudiationMoratorium**

<http://www.fpml.org/2009/FpML-4-7>

XML Instance Representation

```
<repudiationMoratorium/>
```

Diagram



Schema Component Representation

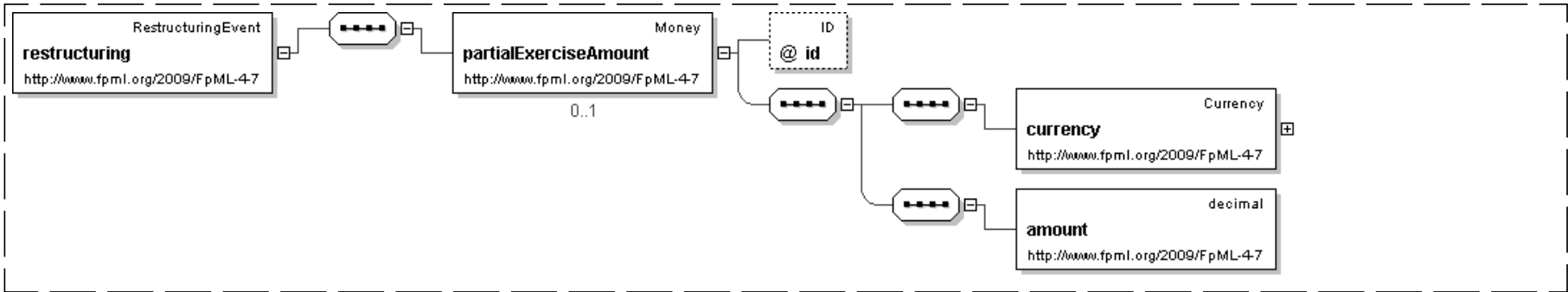
```
<xsd:element name="repudiationMoratorium" type="RepudiationMoratoriumEvent"
  " substitutionGroup="creditEvent"/>
```

Element: **restructuring**

- This element can be used wherever the following element is referenced:
  - [creditEvent](#)

Name	restructuring
Type	<a href="#">RestructuringEvent</a>
Nilable	no
Abstract	no

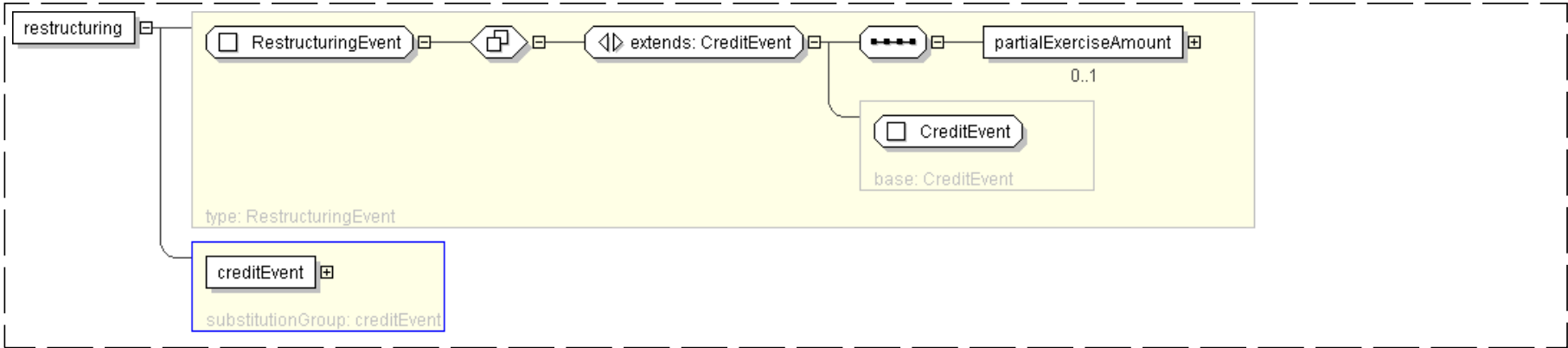
Logical Diagram



XML Instance Representation

```
<restructuring>
  <partialExerciseAmount> Money </partialExerciseAmount> [0..1]
</restructuring>
```

Diagram



Schema Component Representation

```
<xsd:element name="restructuring" type="RestructuringEvent" substitutionGroup="creditEvent"/>
```

Global Definitions

Complex Type: **BankruptcyEvent**

Super-types:	<a href="#">CreditEvent</a> < <b>BankruptcyEvent</b> (by extension)
Sub-types:	None

Name	BankruptcyEvent
Used by (from the same schema document)	Element <a href="#">bankruptcy</a>
Abstract	no

XML Instance Representation

<.../>

Diagram



Schema Component Representation

```
<xsd:complexType name="BankruptcyEvent">
  <xsd:complexContent>
    <xsd:extension base="CreditEvent"/>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CreditEvent**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">BankruptcyEvent</a> (by extension)</li><li>• <a href="#">FailureToPayEvent</a> (by extension)</li><li>• <a href="#">ObligationAccelerationEvent</a> (by extension)</li><li>• <a href="#">ObligationDefaultEvent</a> (by extension)</li><li>• <a href="#">RepudiationMoratoriumEvent</a> (by extension)</li><li>• <a href="#">RestructuringEvent</a> (by extension)</li></ul>

Name	CreditEvent
Used by (from the same schema document)	Element <a href="#">creditEvent</a>
Abstract	no

XML Instance Representation

<.../>

Diagram



☐ CreditEvent

Schema Component Representation

```
<xsd:complexType name="CreditEvent" />
```

[top](#)

Complex Type: CreditEventNoticeDocument

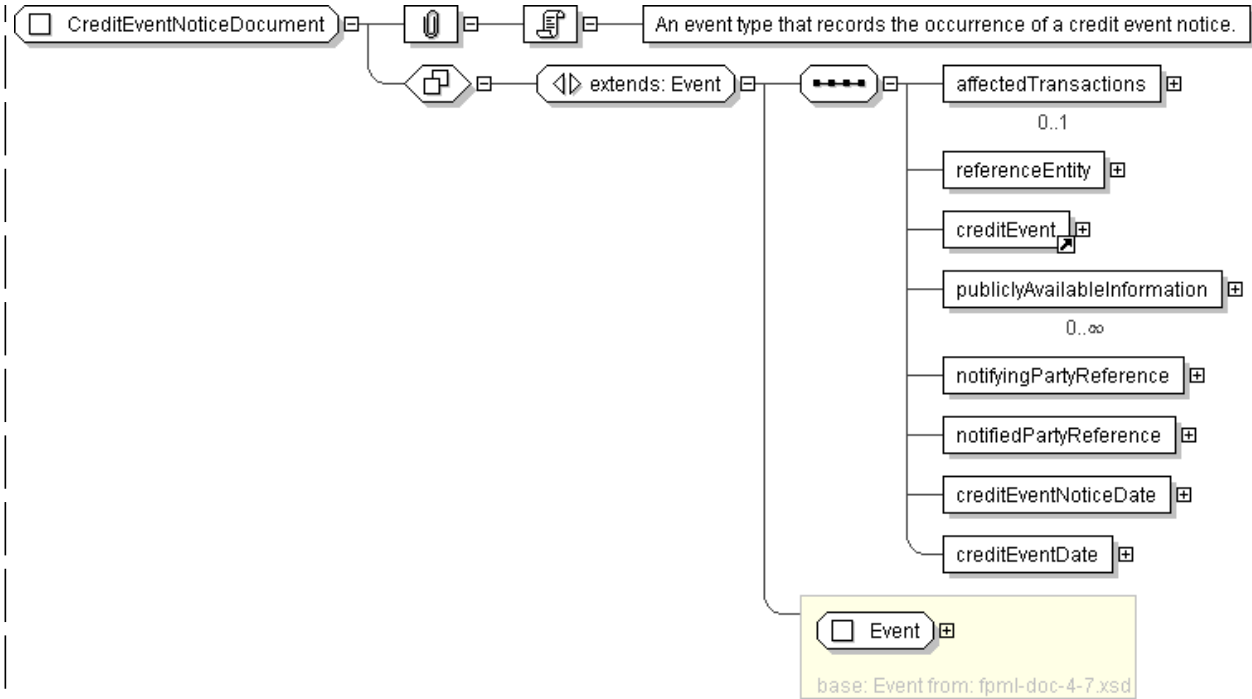
Super-types:	<a href="#">Event</a> < <b>CreditEventNoticeDocument</b> (by extension)
Sub-types:	None

Name	CreditEventNoticeDocument
Used by (from the same schema document)	Complex Type <a href="#">CreditEventNotification</a> , Element <a href="#">creditEventNotice</a>
Abstract	no
Documentation	An event type that records the occurrence of a credit event notice.

XML Instance Representation

```
<...>
  <eventId> EventId </eventId> [0..*]
  '
  <affectedTransactions> AffectedTransactions </affectedTransactions> [0..1]
  'Trades affected by this event.'
  <referenceEntity> LegalEntity </referenceEntity> [1]
  <creditEvent> ... </creditEvent> [1]
  <publiclyAvailableInformation> Resource </publiclyAvailableInformation> [0..*]
  'A public information source, e.g. a particular newspaper or electronic news service, that
  may publish relevant information used in the determination of whether or not a credit event
  has occurred.'
  <notifyingPartyReference> PartyReference </notifyingPartyReference> [1]
  <notifiedPartyReference> PartyReference </notifiedPartyReference> [1]
  <creditEventNoticeDate> xsd:date </creditEventNoticeDate> [1]
  <creditEventDate> xsd:date </creditEventDate> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditEventNoticeDocument">
  <xsd:complexContent>
    <xsd:extension base="Event">
      <xsd:sequence>
        <xsd:element name="affectedTransactions" type="AffectedTransactions" minOccurs="0"/>
        <xsd:element name="referenceEntity" type="LegalEntity"/>
        <xsd:element ref="creditEvent"/>
        <xsd:element name="publiclyAvailableInformation" type="Resource"
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="notifyingPartyReference" type="PartyReference"/>
        <xsd:element name="notifiedPartyReference" type="PartyReference"/>
        <xsd:element name="creditEventNoticeDate" type="xsd:date"/>
        <xsd:element name="creditEventDate" type="xsd:date"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: CreditEventNotification

Super-types:	<a href="#">NotificationMessage</a> < <b>CreditEventNotification</b> (by extension)
Sub-types:	None

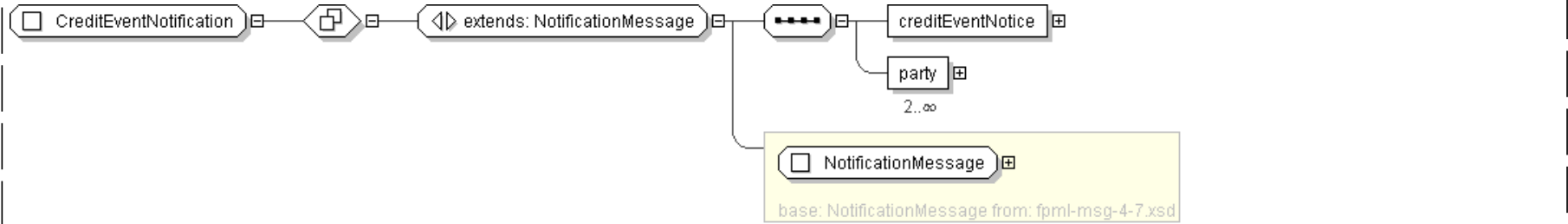


Name	CreditEventNotification
Abstract	no

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <creditEventNotice> CreditEventNoticeDocument </creditEventNotice> [1]
  <party> Party </party> [2..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditEventNotification">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " />
    <xsd:sequence>
      <xsd:element name="creditEventNotice" type=" CreditEventNoticeDocument " />
      <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **FailureToPayEvent**

Super-types:	<a href="#">CreditEvent</a> < <b>FailureToPayEvent</b> (by extension)
Sub-types:	None

Name	FailureToPayEvent
Used by (from the same schema document)	Element <a href="#">failureToPay</a>
Abstract	no

XML Instance Representation

<.../>

Diagram



Schema Component Representation

```
<xsd:complexType name="FailureToPayEvent">
  <xsd:complexContent>
    <xsd:extension base="CreditEvent"/>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **Language**

Super-types:	<a href="#">Scheme</a> < <b>Language</b> (by extension)
Sub-types:	None

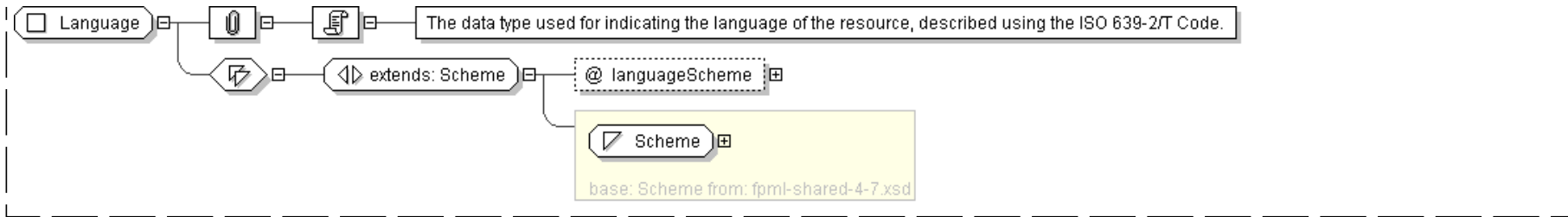
Name	Language
Used by (from the same schema document)	Complex Type <a href="#">Resource</a>
Abstract	no
Documentation	The data type used for indicating the language of the resource, described using the ISO 639-2/T Code.

XML Instance Representation

<...  
languageScheme="xsd:anyURI [0..1]">  
[Scheme](#)  
</...>

Diagram





Schema Component Representation

```
<xsd:complexType name="Language">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="languageScheme" type=" xsd:anyURI "/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ObligationAccelerationEvent**

Super-types:	<a href="#">CreditEvent</a> < <b>ObligationAccelerationEvent</b> (by extension)
Sub-types:	None

Name	ObligationAccelerationEvent
Used by (from the same schema document)	Element <a href="#">obligationAcceleration</a>
Abstract	no

XML Instance Representation

```
<.../>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ObligationAccelerationEvent">
  <xsd:complexContent>
    <xsd:extension base=" CreditEvent ">
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ObligationDefaultEvent**

Super-types:	<a href="#">CreditEvent</a> < <b>ObligationDefaultEvent</b> (by extension)
--------------	--

Sub-types:None

Name	ObligationDefaultEvent
Used by (from the same schema document)	Element <a href="#">obligationDefault</a>
Abstract	no

XML Instance Representation

<.../>

Diagram



Schema Component Representation

```
<xsd:complexType name="ObligationDefaultEvent">
  <xsd:complexContent>
    <xsd:extension base="CreditEvent"/>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RepudiationMoratoriumEvent

Super-types:[CreditEvent](#) < RepudiationMoratoriumEvent (by extension)

Sub-types:None

Name	RepudiationMoratoriumEvent
Used by (from the same schema document)	Element <a href="#">repudiationMoratorium</a>
Abstract	no

XML Instance Representation

<.../>

Diagram



Schema Component Representation

```
<xsd:complexType name="RepudiationMoratoriumEvent">
  <xsd:complexContent>
    <xsd:extension base="CreditEvent"/>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Resource**

Super-types:	None
Sub-types:	None
Name	Resource
Used by (from the same schema document)	Complex Type <a href="#">CreditEventNoticeDocument</a>
Abstract	no
Documentation	Describes the resource that contains the media representation of a business event (i.e used for stating the Publicly Available Information). For example, can describe a file or a URL that represents the event.

XML Instance Representation

```
<...>
  <resourceId> ResourceId </resourceId> [1]
  'The unique identifier of the resource within the event.'

  <language> Language </language> [0..1]
  'Indicates the language of the resource, described using the ISO 639-2/T Code.'

  <sizeInBytes> xsd:decimal </sizeInBytes> [0..1]
  'Indicates the size of the resource in bytes. It could be used by the end user to estimate
  the download time and storage needs.'

  <length> ResourceLength </length> [0..1]
  'Indicates the length of the resource. For example, if the resource were a PDF file, the
  length would be in pages.'

  <mimeType> MimeType </mimeType> [1]
  'Indicates the type of media used to store the content. mimeType is used to determine
  the software product(s) that can read the content. MIME Types are described in RFC 2046.'

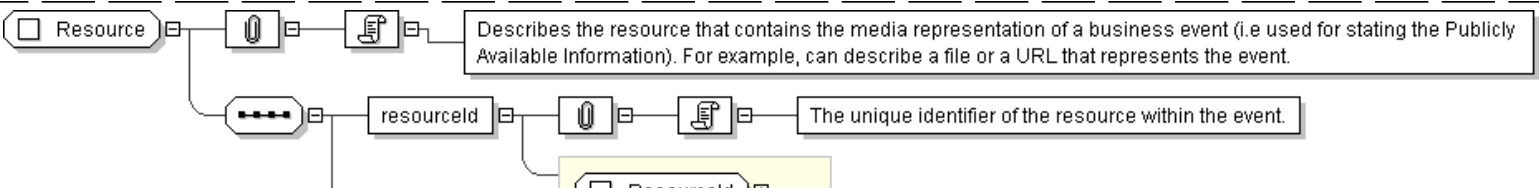
  <name> xsd:normalizedString </name> [0..1]
  'The name of the resource.'

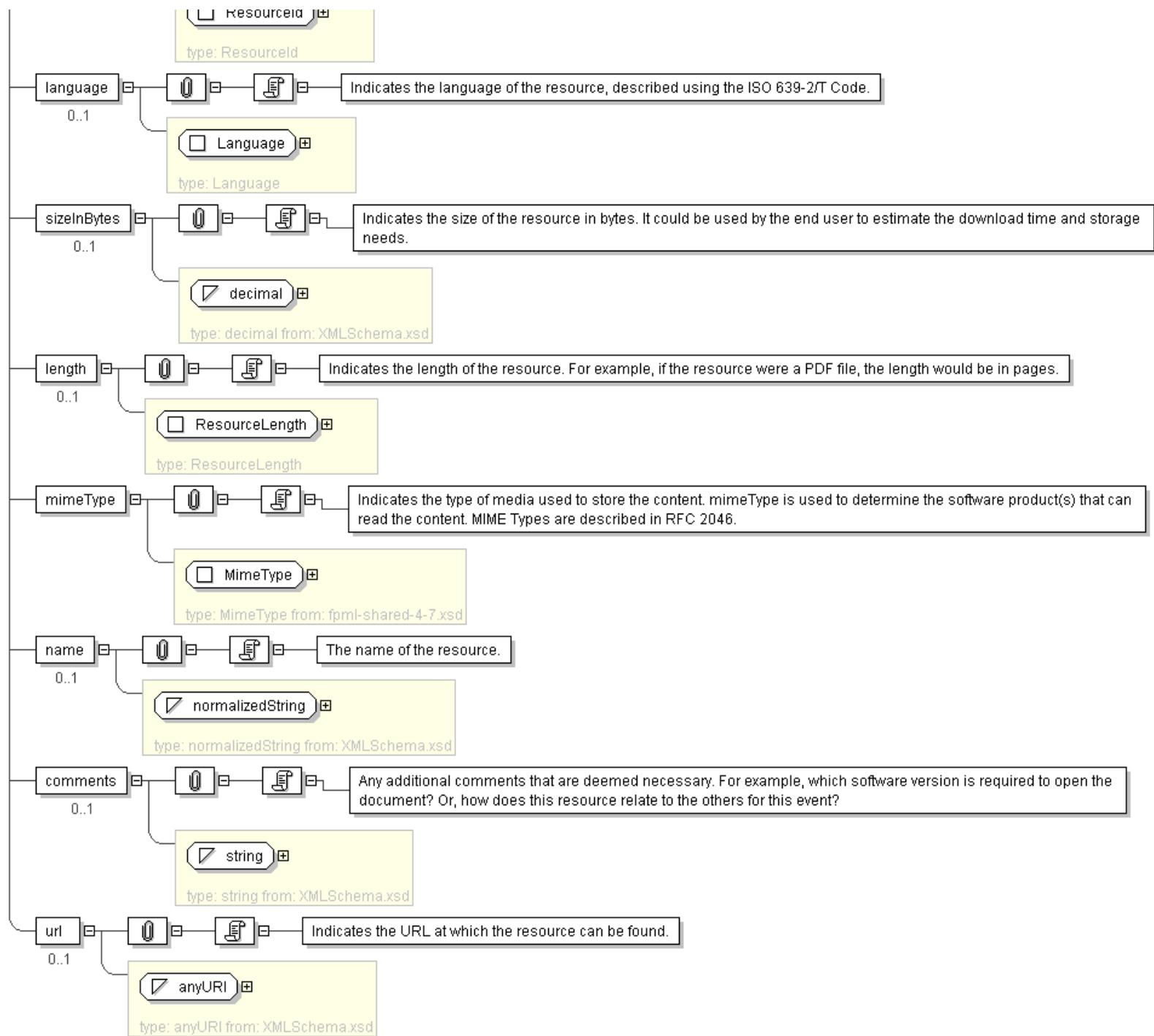
  <comments> xsd:string </comments> [0..1]
  'Any additional comments that are deemed necessary. For example, which software version
  is required to open the document? Or, how does this resource relate to the others for
  this event?'

  <url> xsd:anyURI </url> [0..1]
  'Indicates the URL at which the resource can be found.'

</...>
```

Diagram





#### Schema Component Representation

```
<xsd:complexType name="Resource">
```

```
<xsd:sequence>
  <xsd:element name="resourceId" type=" ResourceId "/>
  <xsd:element name="language" type=" Language " minOccurs="0"/>
  <xsd:element name="sizeInBytes" type=" xsd:decimal " minOccurs="0"/>
  <xsd:element name="length" type=" ResourceLength " minOccurs="0"/>
  <xsd:element name="mimeType" type=" MimeType "/>
  <xsd:element name="name" type=" xsd:normalizedString " minOccurs="0"/>
  <xsd:element name="comments" type=" xsd:string " minOccurs="0"/>
  <xsd:element name="url" type=" xsd:anyURI " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ResourceId**

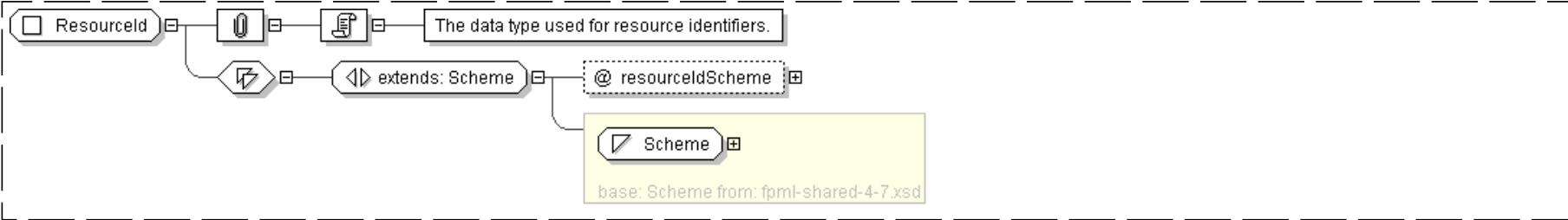
Super-types:	<a href="#">Scheme</a> < <b>ResourceId</b> (by extension)
Sub-types:	None

Name	ResourceId
Used by (from the same schema document)	Complex Type <a href="#">Resource</a>
Abstract	no
Documentation	The data type used for resource identifiers.

XML Instance Representation

```
<...
  resourceIdScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ResourceId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="resourceIdScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: ResourceLength

Super-types:	None
Sub-types:	None

Name	ResourceLength
Used by (from the same schema document)	Complex Type <a href="#">Resource</a>
Abstract	no
Documentation	The type that indicates the length of the resource.

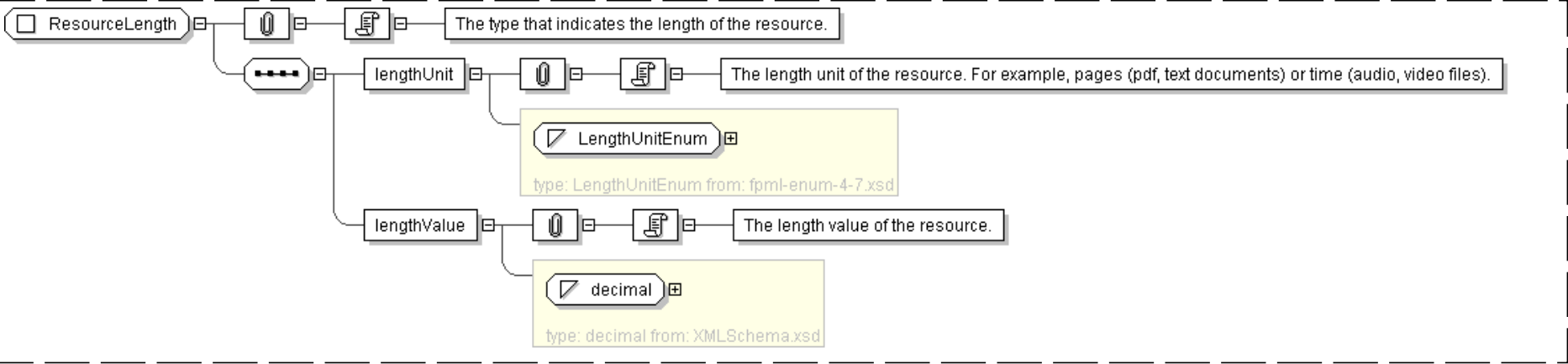
XML Instance Representation

```
<...>
  <lengthUnit> LengthUnitEnum </lengthUnit> [1]
  'The length unit of the resource. For example, pages (pdf, text documents) or time
  (audio, video files).'
```

```
<lengthValue> xsd:decimal </lengthValue> [1]
  'The length value of the resource.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ResourceLength">
  <xsd:sequence>
    <xsd:element name="lengthUnit" type=" LengthUnitEnum "/>
    <xsd:element name="lengthValue" type=" xsd:decimal "/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: RestructuringEvent



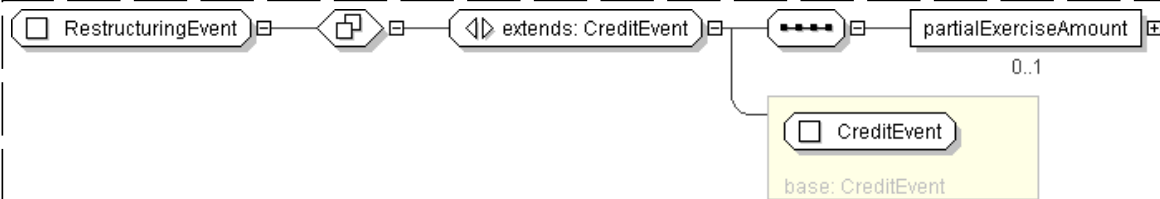
<i>Super-types:</i>	<a href="#">CreditEvent</a> < <b>RestructuringEvent</b> (by extension)
<i>Sub-types:</i>	None

<b>Name</b>	RestructuringEvent
<b>Used by (from the same schema document)</b>	Element <a href="#">restructuring</a>
<b>Abstract</b>	no

#### XML Instance Representation

```
<...>
  <partialExerciseAmount> Money </partialExerciseAmount> [0..1]
</...>
```

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="RestructuringEvent">
  <xsd:complexContent>
    <xsd:extension base="CreditEvent">
      <xsd:sequence>
        <xsd:element name="partialExerciseAmount" type="Money" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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## Legend

### Complex Type:

Schema Component Type

### AusAddress

Schema Component Name

<i>Super-types:</i>	<a href="#">Address</a> < AusAddress (by extension)
<i>Sub-types:</i>	<ul style="list-style-type: none"> <li><a href="#">OLDAAddress</a> (by restriction)</li> </ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

<b>Name</b>	AusAddress
<b>Abstract</b>	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country=<b>"Australia"</b> &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start <u>Choice</u> [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <u>AusStates</u> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
---

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name=<b>"AusAddress"</b>&gt; &lt;complexContent&gt; &lt;extension base=<u>Address</u> "&gt; &lt;sequence&gt; &lt;element name=<b>"state"</b> type=<u>AusStates</u> "/&gt; &lt;element name=<b>"postcode"</b>&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="<b>[1-9][0-9]{3}</b>" /&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name=<b>"country"</b> type=" string " fixed=<b>"Australia"</b>&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

Generated by [oXygen XML Editor](#) using a modified version of [x3p](#) that adds schema diagrams and chunking support.

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 2527 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-eg-shared-4-7.xsd</a></li><li>◦ <a href="#">fpml-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 2527 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-eg-shared-4-7.xsd"/>
  <xsd:include schemaLocation="fpml-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

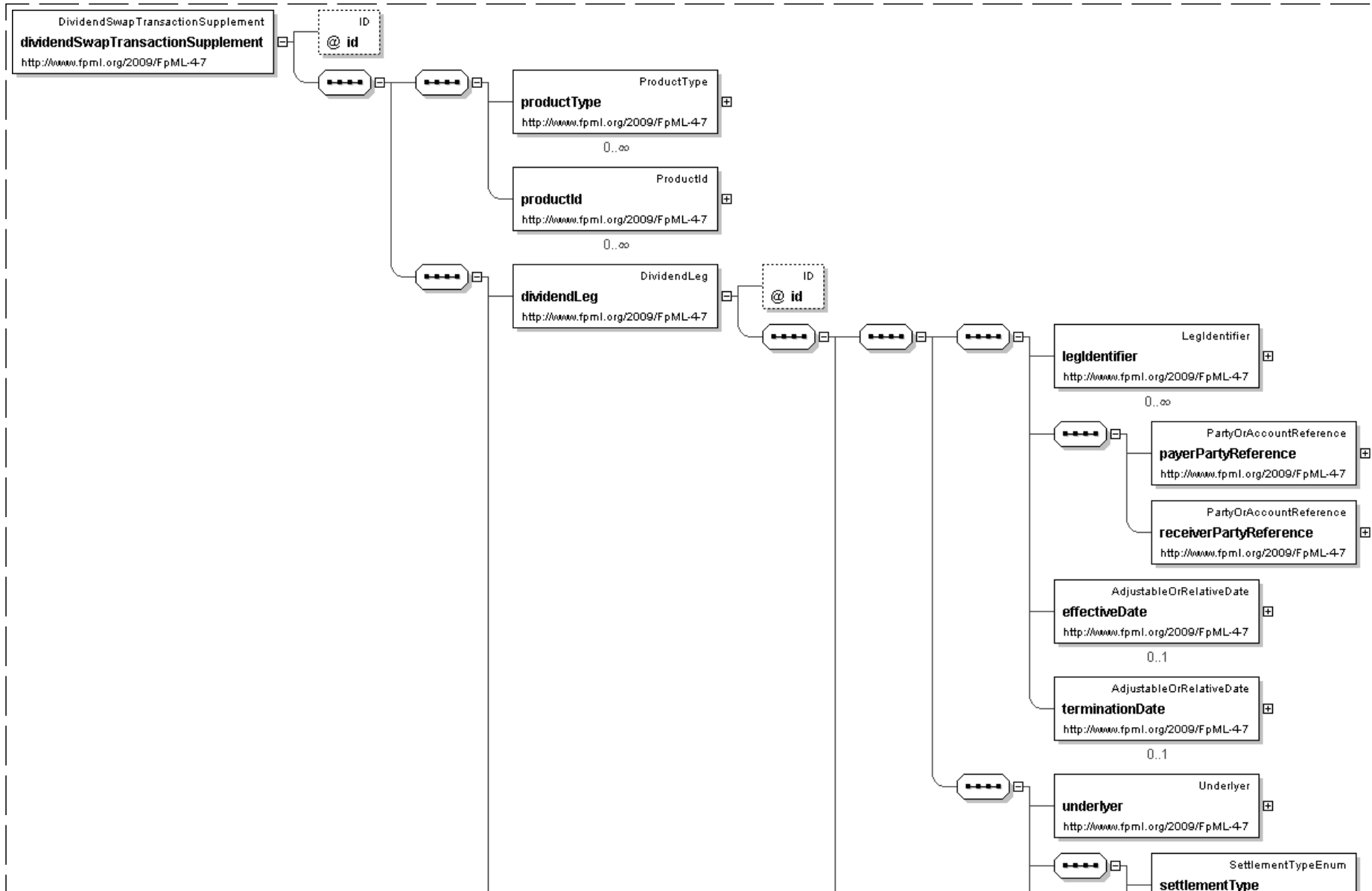
[top](#)

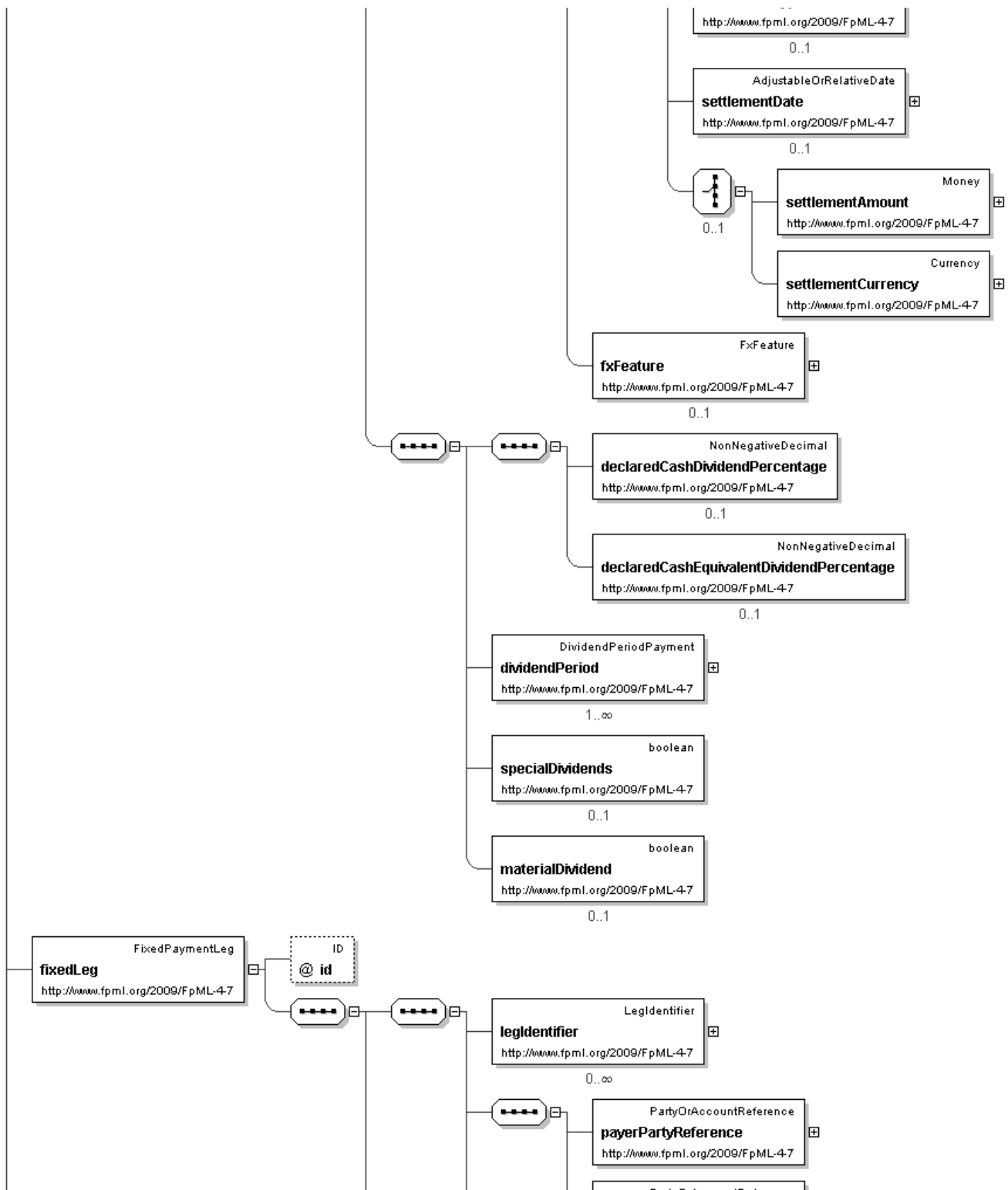
## Global Declarations

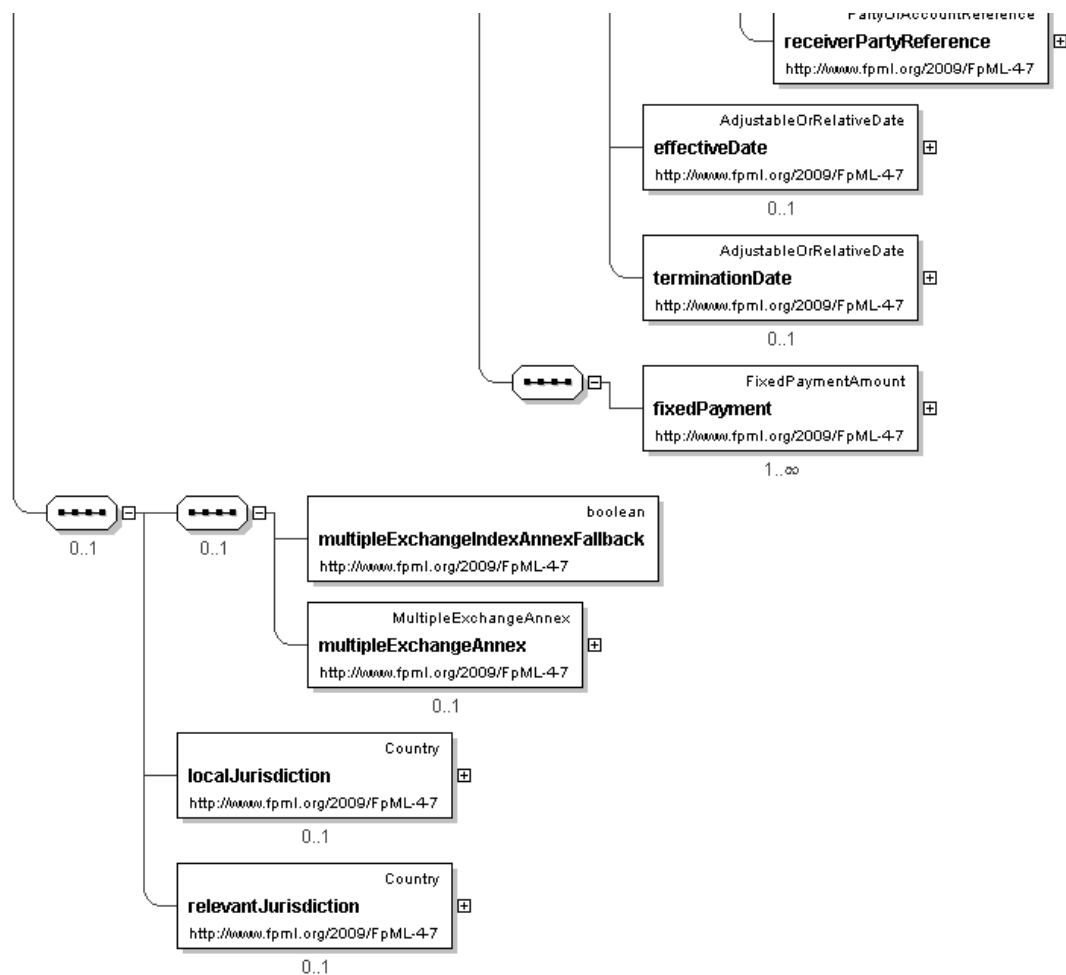
**Element:** dividendSwapTransactionSupplement

- This element can be used wherever the following element is referenced:
  - [product](#)

<b>Name</b>	dividendSwapTransactionSupplement
<b>Type</b>	<a href="#">DividendSwapTransactionSupplement</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	Specifies the structure of the dividend swap transaction supplement.

**Logical Diagram**





### XML Instance Representation

```
<dividendSwapTransactionSupplement
  id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
  <dividendLeg> DividendLeg </dividendLeg> [1]
  'Dividend leg.'
  <fixedLeg> FixedPaymentLeg </fixedLeg> [1]
  'Fixed payment leg.'
  Start Group: EquityUnderlyerProvisions.model [0..1]
```



Start [Sequence](#) [0..1]

```
<multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]
```

'Used for specifying whether additional annex terms for trades with underlyers that are listed on multiple exchanges will apply.'

```
<multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]
```

'Used for specifying additional annex terms for trades with underlyers that are listed on multiple exchanges.'

End Sequence

```
<localJurisdiction> Country </localJurisdiction> [0..1]
```

'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties, and similar charges imposed by the taxing authority of the Local Jurisdiction If this element is not present Local Jurisdiction is Not Applicable.'

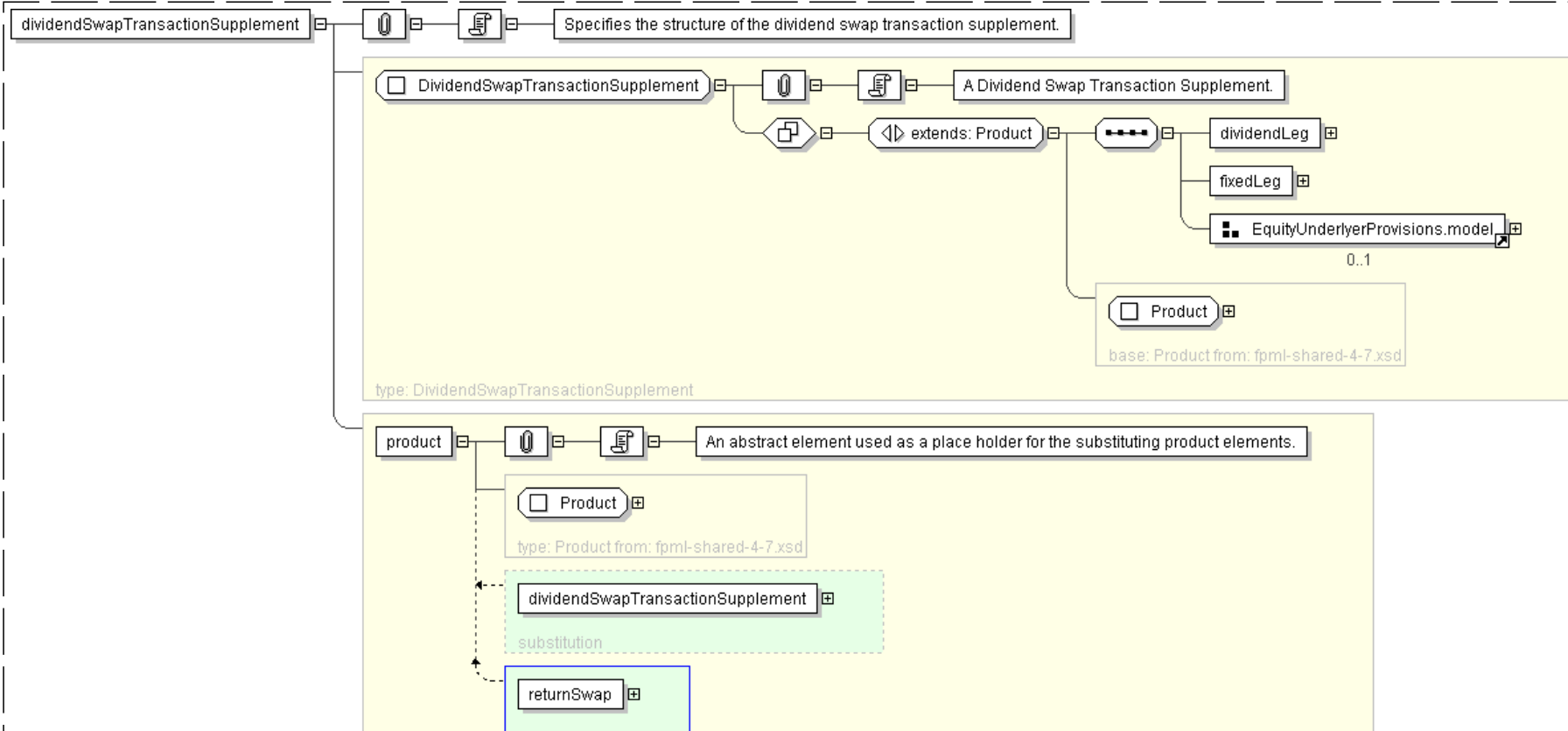
```
<relevantJurisdiction> Country </relevantJurisdiction> [0..1]
```

'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties and similar charges that would be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker Dealer assuming the Applicable Hedge Positions are held by its office in the Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'

End Group: [EquityUnderlyerProvisions.model](#)

```
</dividendSwapTransactionSupplement>
```

## Diagram



substitution

substitutionGroup: product from: fpml-shared-4-7.xsd

Schema Component Representation

```
<xsd:element name="dividendSwapTransactionSupplement" type="

```

top

Global Definitions

Complex Type: DividendLeg

Super-types:	<a href="#">DirectionalLegUnderlyer</a> < <b>DividendLeg</b> (by extension)
Sub-types:	None

Name	DividendLeg
Used by (from the same schema document)	Complex Type <a href="#">DividendSwapTransactionSupplement</a>
Abstract	no
Documentation	Floating Payment Leg of a Dividend Swap.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <legIdentifier> LegIdentifier </legIdentifier> [0..*]
  'Version aware identification of this leg.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [0..1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [0..1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlyer of the leg.'

  <settlementType> SettlementTypeEnum </settlementType> [0..1]
  <settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
  Start Group: SettlementAmountOrCurrency.model [0..1]
  Start Choice [1]
    <settlementAmount> Money </settlementAmount> [1]
    'Settlement Amount'

    <settlementCurrency> Currency </settlementCurrency> [1]
```

```

        'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice
End Group: SettlementAmountOrCurrency.model
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX Features.'

<declaredCashDividendPercentage> NonNegativeDecimal </declaredCashDividendPercentage> [0..1]
'Declared Cash Dividend Percentage.'

<declaredCashEquivalentDividendPercentage> NonNegativeDecimal
</declaredCashEquivalentDividendPercentage> [0..1]
'Declared Cash Equivalent Dividend Percentage.'

<dividendPeriod> DividendPeriodPayment </dividendPeriod> [1..*]
'One to many time bounded dividend payment periods, each with a fixed strike and
dividend payment date per period.'

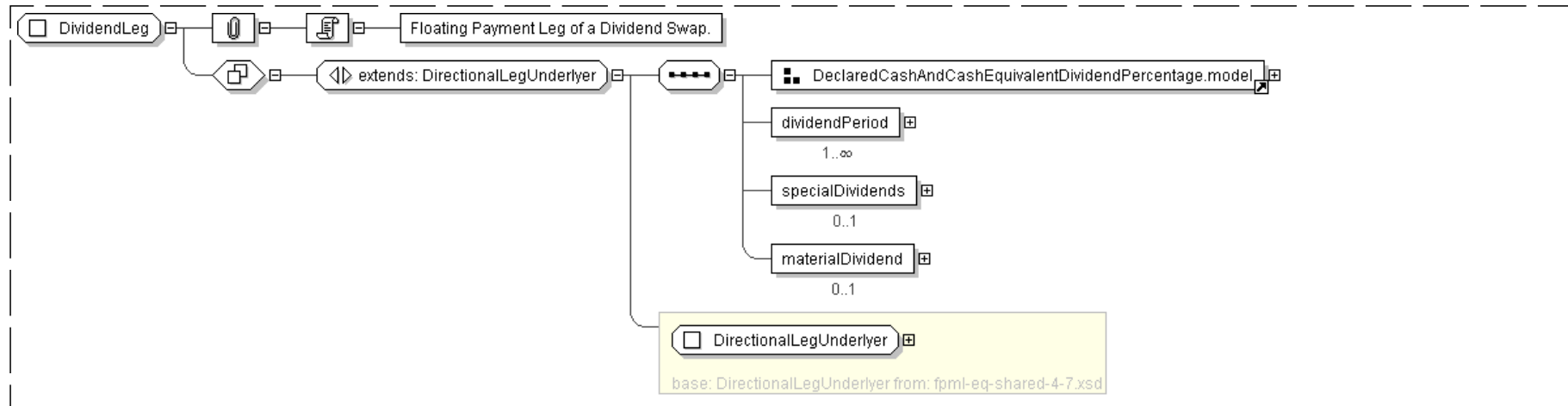
<specialDividends> xsd:boolean </specialDividends> [0..1]
'If present and true, then special dividends and memorial dividends are applicable.'

<materialDividend> xsd:boolean </materialDividend> [0..1]
'If present and true, then material non cash dividends are applicable.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="DividendLeg">
  <xsd:complexContent>
    <xsd:extension base="DirectionalLegUnderlyer">
      <xsd:sequence>
        <xsd:group ref="DeclaredCashAndCashEquivalentDividendPercentage.model"/>
        <xsd:element name="dividendPeriod" type="DividendPeriodPayment" maxOccurs="unbounded"/>
        <xsd:element name="specialDividends" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="materialDividend" type="xsd:boolean" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

</xsd:complexType>

Complex Type: **DividendPeriodPayment**

Super-types:	<a href="#">DividendPeriod</a> < <b>DividendPeriodPayment</b> (by extension)
Sub-types:	None
Name	DividendPeriodPayment
Used by (from the same schema document)	Complex Type <a href="#">DividendLeg</a>
Abstract	no
Documentation	A time bounded dividend period, with fixed strike and a dividend payment date per period.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <unadjustedStartDate> IdentifiedDate </unadjustedStartDate> [1]
  'Unadjusted inclusive dividend period start date.'

  <unadjustedEndDate> IdentifiedDate </unadjustedEndDate> [1]
  'Unadjusted inclusive dividend period end date.'

  <dateAdjustments> BusinessDayAdjustments </dateAdjustments> [1]
  'Date adjustments for all unadjusted dates in this dividend period.'

  <underlyerReference> AssetReference </underlyerReference> [0..1]
  'Reference to the underlyer which is paying dividends. This should be used in all cases,
  and must be used where there are multiple underlying assets, to avoid any ambiguity about
  which asset the dividend period relates to.'

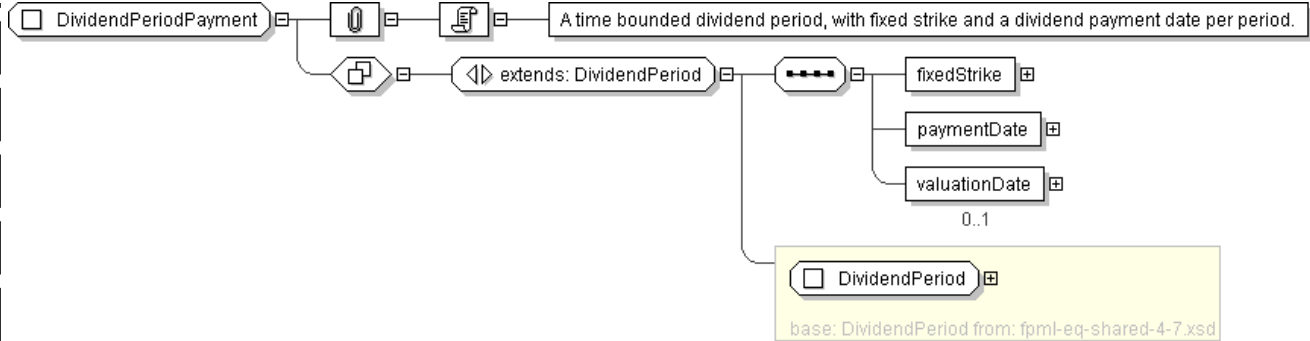
  <fixedStrike> PositiveDecimal </fixedStrike> [1]
  'Fixed strike.'

  <paymentDate> AdjustableOrRelativeDate </paymentDate> [1]
  'Dividend period amount payment date.'

  <valuationDate> AdjustableOrRelativeDate </valuationDate> [0..1]
  'Dividend period amount valuation date.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DividendPeriodPayment">
  <xsd:complexContent>
    <xsd:extension base=" DividendPeriod " >
      <xsd:sequence>
        <xsd:element name="fixedStrike" type=" PositiveDecimal " />
        <xsd:element name="paymentDate" type=" AdjustableOrRelativeDate " />
        <xsd:element name="valuationDate" type=" AdjustableOrRelativeDate " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: DividendSwapTransactionSupplement

Super-types:	<a href="#">Product</a> < DividendSwapTransactionSupplement (by extension)
Sub-types:	None

Name	DividendSwapTransactionSupplement
Used by (from the same schema document)	Element <a href="#">dividendSwapTransactionSupplement</a>
Abstract	no
Documentation	A Dividend Swap Transaction Supplement.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
  <dividendLeg> DividendLeg </dividendLeg> [1]
  'Dividend leg.'
  <fixedLeg> FixedPaymentLeg </fixedLeg> [1]
```

**'Fixed payment leg.'**

Start Group: EquityUnderlyerProvisions.model [0..1]

Start Sequence [0..1]

```
<multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]
```

*'Used for specifying whether additional annex terms for trades with underlyers that are listed on multiple exchanges will apply.'*

```
<multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]
```

*'Used for specifying additional annex terms for trades with underlyers that are listed on multiple exchanges.'*

End Sequence

```
<localJurisdiction> Country </localJurisdiction> [0..1]
```

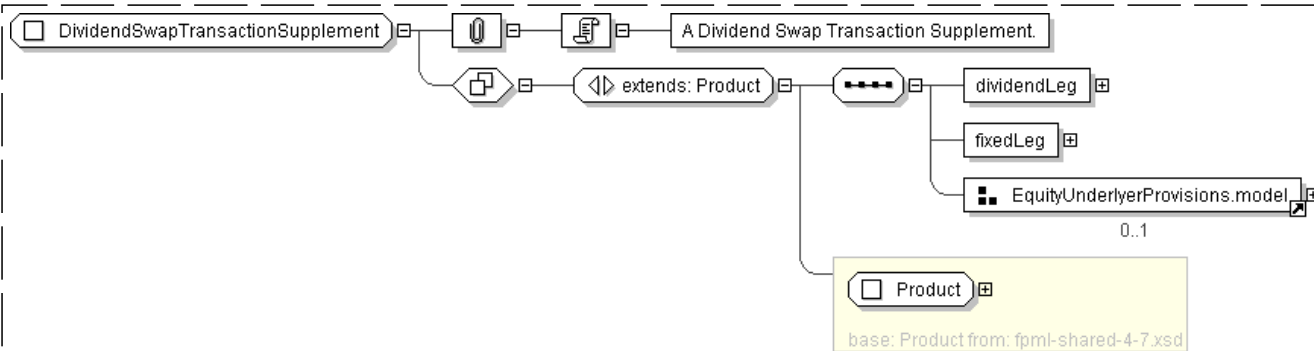
*'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties, and similar charges imposed by the taxing authority of the Local Jurisdiction If this element is not present Local Jurisdiction is Not Applicable.'*

```
<relevantJurisdiction> Country </relevantJurisdiction> [0..1]
```

*'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties and similar charges that would be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker Dealer assuming the Applicable Hedge Positions are held by its office in the Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'*

End Group: EquityUnderlyerProvisions.model

</...>

**Diagram****Schema Component Representation**

```

<xsd:complexType name="DividendSwapTransactionSupplement">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:element name="dividendLeg" type="DividendLeg"/>
        <xsd:element name="fixedLeg" type="FixedPaymentLeg"/>
        <xsd:group ref="EquityUnderlyerProvisions.model" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

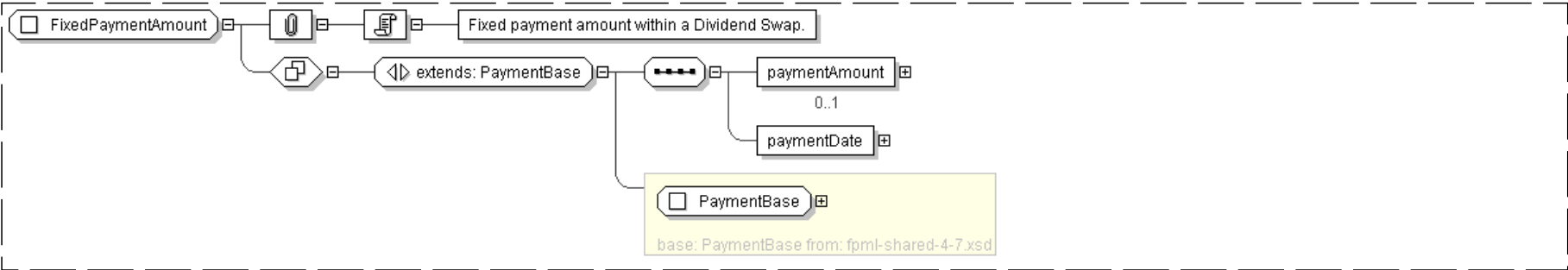
Complex Type: FixedPaymentAmount

Super-types:	<a href="#">PaymentBase</a> < <b>FixedPaymentAmount</b> (by extension)
Sub-types:	None
Name	FixedPaymentAmount
Used by (from the same schema document)	Complex Type <a href="#">FixedPaymentLeg</a>
Abstract	no
Documentation	Fixed payment amount within a Dividend Swap.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <paymentAmount> Money </paymentAmount> [0..1]  
  'Payment amount, which is optional since the payment amount may be calculated using  
  fixed strike and number of open units.'  
  
  <paymentDate> RelativeDateOffset </paymentDate> [1]  
  'Payment date relative to another date.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FixedPaymentAmount">  
  <xsd:complexContent>  
    <xsd:extension base="PaymentBase">  
      <xsd:sequence>  
        <xsd:element name="paymentAmount" type="Money" minOccurs="0"/>  
        <xsd:element name="paymentDate" type="RelativeDateOffset"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: FixedPaymentLeg

Super-types:	<a href="#">DirectionalLeg</a> < <b>FixedPaymentLeg</b> (by extension)
--------------	--

Sub-types:

None

Name	FixedPaymentLeg
Used by (from the same schema document)	Complex Type <a href="#">DividendSwapTransactionSupplement</a>
Abstract	no
Documentation	Fixed Payment Leg of a Dividend Swap.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <legIdentifier> LegIdentifier </legIdentifier> [0..*]
  'Version aware identification of this leg.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

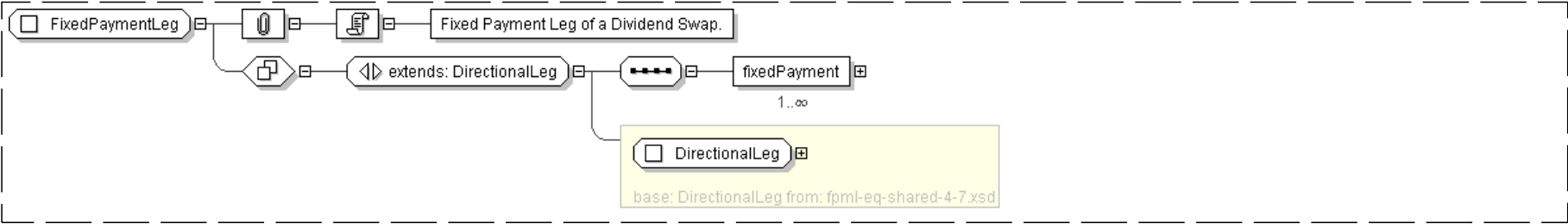
  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [0..1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [0..1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

  <fixedPayment> FixedPaymentAmount </fixedPayment> [1..*]
  'Fixed payment of a dividend swap, payment date is relative to a dividend period payment
  date. Commonly the dividend leg and the fixed payment leg will pay out on the same date,
  and the payments will be netted.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FixedPaymentLeg">
  <xsd:complexContent>
    <xsd:extension base=" DirectionalLeg " >
      <xsd:sequence>
        <xsd:element name="fixedPayment" type=" FixedPaymentAmount " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



## Legend

### Complex Type:

Schema Component Type

### AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

### XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <a href="#">AusStates</a> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

### Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt;   &lt;complexContent&gt;     &lt;extension base="Address"&gt;       &lt;sequence&gt;         &lt;element name="state" type="AusStates"/&gt;         &lt;element name="postcode"&gt;           &lt;simpleType&gt;             &lt;restriction base="string"&gt;               &lt;pattern value="[1-9][0-9]{3}"/&gt;             &lt;/restriction&gt;           &lt;/simpleType&gt;         &lt;/element&gt;       &lt;/sequence&gt;       &lt;attribute name="country" type="string" fixed="Australia"/&gt;     &lt;/extension&gt;   &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

```
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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  - [Complex Type: \*\*PercentageRule\*\*](#)
  - [Complex Type: \*\*Portfolio\*\*](#)
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  - [Complex Type: \*\*QueryParameter\*\*](#)
  - [Complex Type: \*\*QueryParameterId\*\*](#)
  - [Complex Type: \*\*QueryParameterOperator\*\*](#)
  - [Complex Type: \*\*QueryPortfolio\*\*](#)
  - [Complex Type: \*\*Strategy\*\*](#)
  - [Complex Type: \*\*Trade\*\*](#)
  - [Complex Type: \*\*TradeDifference\*\*](#)
  - [Complex Type: \*\*TradeHeader\*\*](#)
  - [Complex Type: \*\*TradeId\*\*](#)
  - [Complex Type: \*\*Tradeldentifier\*\*](#)
  - [Complex Type: \*\*TradeSide\*\*](#)

## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6827 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

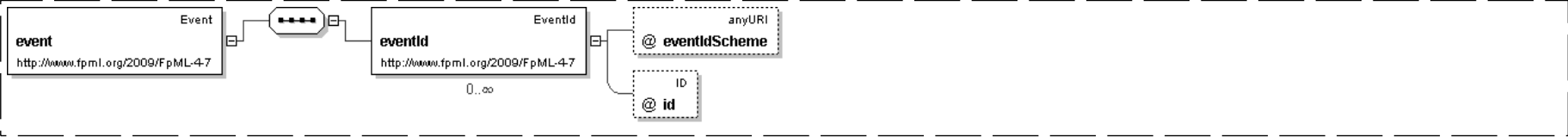
```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6827 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

## Global Declarations

Element: **event**

Name	event
Used by (from the same schema document)	Complex Type <a href="#">DataDocument</a>
Type	<a href="#">Event</a>
Niltable	no
Abstract	yes
Documentation	An abstract global element used as a basis for substitution of event types

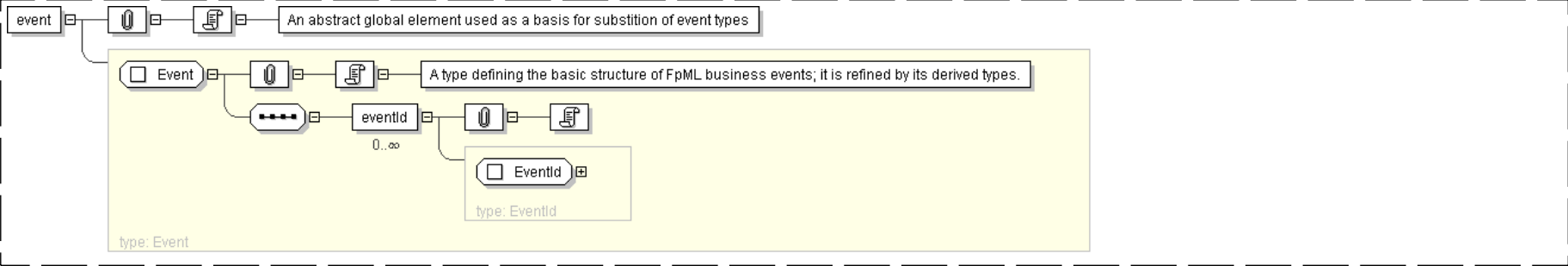
Logical Diagram



XML Instance Representation

```
<event>
  <eventId> EventId </eventId> [0..*]
  ..
</event>
```

Diagram



Schema Component Representation

```
<xsd:element name="event" type="Event" abstract="true"/>
```

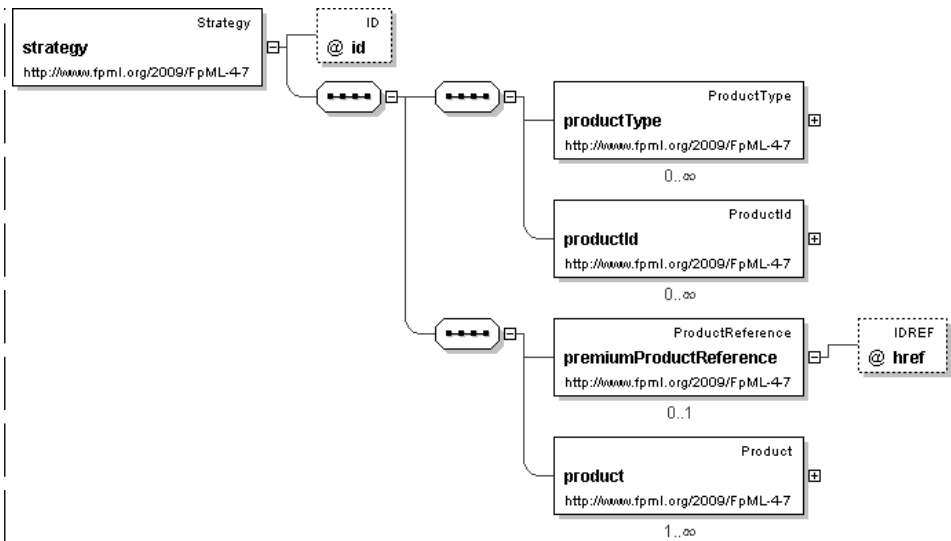
[top](#)

Element: **strategy**

- This element can be used wherever the following element is referenced:
  - [product](#)

Name	strategy
Type	<a href="#">Strategy</a>
Nilable	no
Abstract	no
Documentation	A strategy product.

Logical Diagram



XML Instance Representation

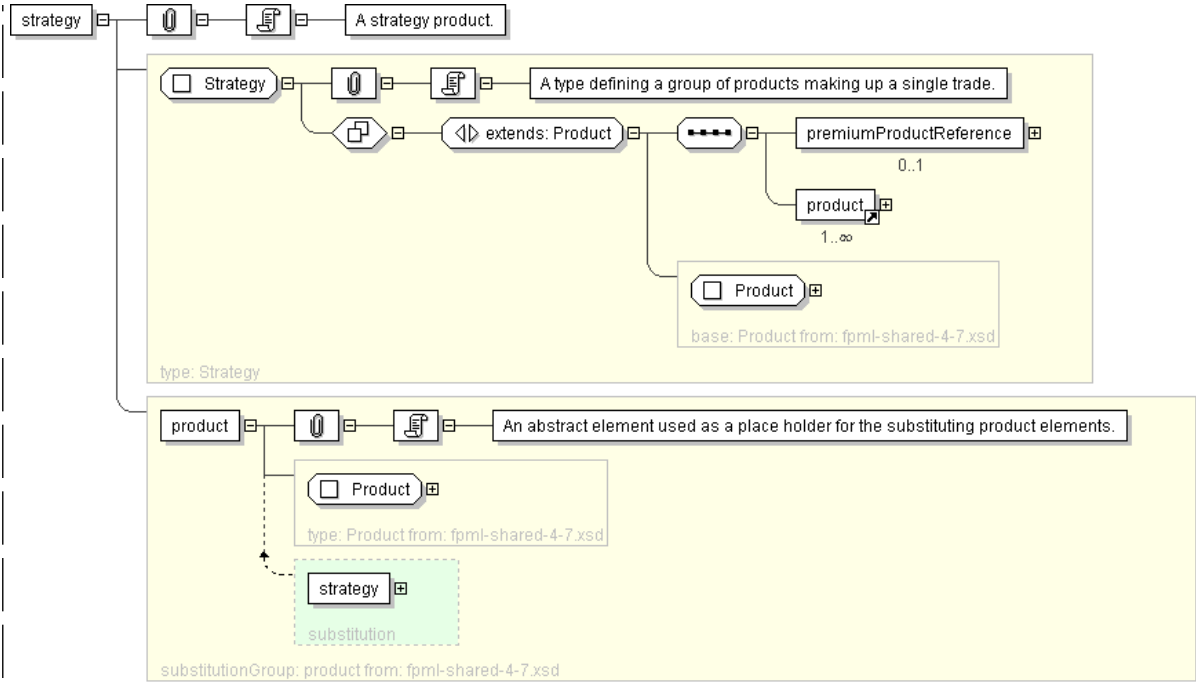
```
<strategy
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <premiumProductReference> ProductReference </premiumProductReference> [0..1]
  'Indicates which product within a strategy represents the premium payment.'

  <product> ... </product> [1..*]
</strategy>
```

Diagram



Schema Component Representation

```
<xsd:element name="strategy" type=" Strategy " substitutionGroup="product"/>
```

[top](#)

Global Definitions

Attribute Group: **VersionAttributes.atts**

Name	VersionAttributes.atts
Used by (from the same schema document)	Complex Type <a href="#">Document</a>
Documentation	Set of attributes that define versioning information.

XML Instance Representation

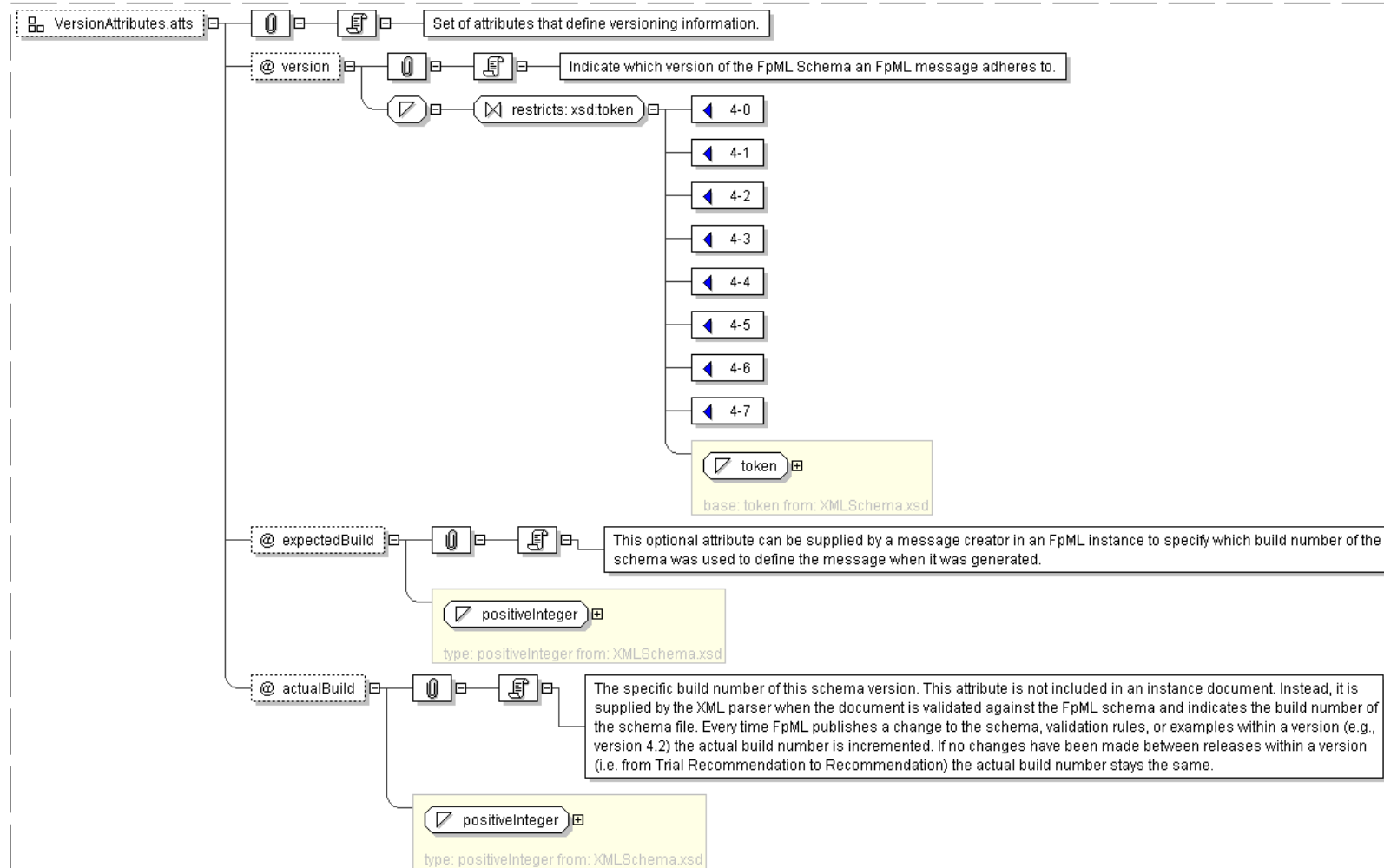
```
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

```
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
```

```
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
```



## Diagram



## Schema Component Representation

```

<xsd:attributeGroup name="VersionAttributes.atts">
  <xsd:attribute name="version" use="required">
    <xsd:simpleType>
      <xsd:restriction base="xsd:token">
        <xsd:enumeration value="4-0"/>
        <xsd:enumeration value="4-1"/>
        <xsd:enumeration value="4-2"/>
        <xsd:enumeration value="4-3"/>
        <xsd:enumeration value="4-4"/>
        <xsd:enumeration value="4-5"/>
        <xsd:enumeration value="4-6"/>
        <xsd:enumeration value="4-7"/>
      </xsd:restriction>
    </xsd:simpleType>
  </xsd:attribute>
  <xsd:attribute name="expectedBuild" type="xsd:positiveInteger"/>
  <xsd:attribute name="actualBuild" type="xsd:positiveInteger" fixed="5"/>
</xsd:attributeGroup>

```

Complex Type: Allocation

Super-types:	None
Sub-types:	None
Name	Allocation
Used by (from the same schema document)	Complex Type <a href="#">Allocations</a>
Abstract	no

XML Instance Representation

```
<...>
  <allocationTradeId> PartyTradeIdentifier </allocationTradeId> [1]
  'Unique ID for the allocation.'

  Start Choice [1]
    <accountReference> AccountReference </accountReference> [1]
    'Reference to the subaccount definition in the Party list.'

    <partyReference> PartyReference </partyReference> [1]
    'Reference to the party definition.'

  End Choice
  Start Choice [1]
    <allocatedFraction> xsd:decimal </allocatedFraction> [1]
    'The fractional allocation (0.45 = 45%) of the notional and \"block\" fees to this
    particular client subaccount.'

    <allocatedNotional> Money </allocatedNotional> [1]
    'The notional allocation (amount and currency) to this particular client account.'

  End Choice
  <collateral> Collateral </collateral> [0..1]
  'The sum that must be posted upfront to collateralize against counterparty credit risk.'

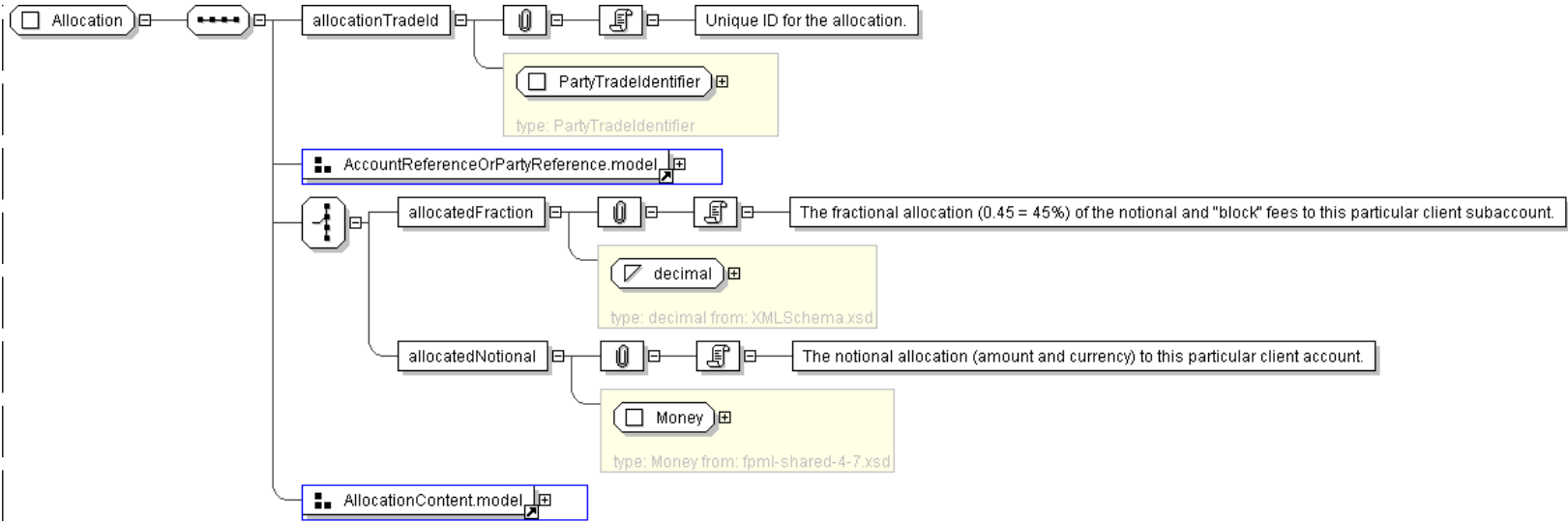
  <creditChargeAmount> Money </creditChargeAmount> [0..1]
  'Special credit fee assessed to certain institutions.'

  <approvals> Approvals </approvals> [0..1]
  'A container for approval states in the workflow.'

  <masterConfirmationDate> xsd:date </masterConfirmationDate> [0..1]
  'The date of the confirmation executed between the parties and intended to govern the
  allocated trade between those parties.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Allocation">
  <xsd:sequence>
    <xsd:element name="allocationTradeId" type=" PartyTradeIdentifier " />
    <xsd:group ref=" AccountReferenceOrPartyReference.model " />
    <xsd:choice>
      <xsd:element name="allocatedFraction" type=" xsd:decimal " />
      <xsd:element name="allocatedNotional" type=" Money " />
    </xsd:choice>
    <xsd:group ref=" AllocationContent.model " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: AllocationTradeIdentifier

Super-types:	<a href="#">TradeIdentifier</a> < <a href="#">PartyTradeIdentifier</a> (by extension) < <b>AllocationTradeIdentifier</b> (by extension)
Sub-types:	None

Name	AllocationTradeIdentifier
Abstract	no
Documentation	This type is used to identify that a trade id is referring to a bock trade.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <partyReference> PartyReference </partyReference> [1]
  'A pointer style reference to a party identifier defined elsewhere in the document. The
  party referenced has allocated the trade identifier.'

Start Choice [1..*]
  <tradeId> TradeId </tradeId> [1]
  <versionedTradeId> VersionedTradeId </versionedTradeId> [1]
End Choice
  <linkId> LinkId </linkId> [0..*]
  'A link identifier allowing the trade to be associated with other related trades, e.g.
  the linkId may contain a tradeId for an associated trade or several related trades may be
  given the same linkId. FpML does not define the domain values associated with this
```

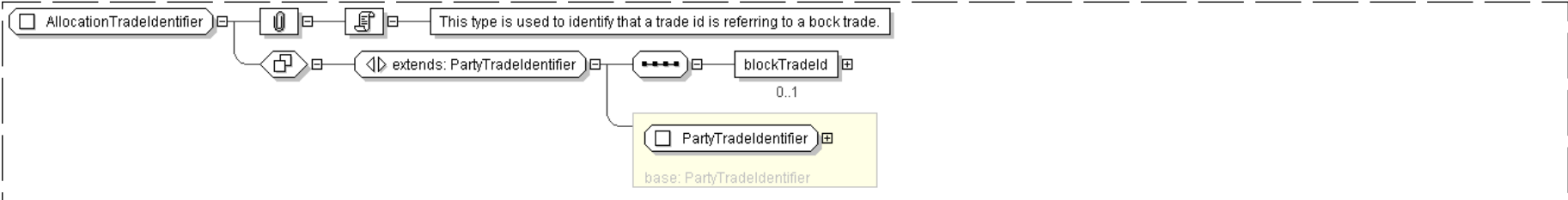
element. Note that the domain values for this element are not strictly an enumerated list.'

```
<blockTradeId> PartyTradeIdentifier </blockTradeId> [0..1]
```

'The trade id of the block trade. This is used by each one of the allocated trades to reference the block trade.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AllocationTradeIdentifier">
  <xsd:complexContent>
    <xsd:extension base=" PartyTradeIdentifier " >
      <xsd:sequence>
        <xsd:element name="blockTradeId" type=" PartyTradeIdentifier " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Allocations**

Super-types:	None
Sub-types:	None
Name	Allocations
Used by (from the same schema document)	Complex Type <a href="#">Trade</a>
Abstract	no

XML Instance Representation

```
<...>
<allocation> Allocation </allocation> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Allocations">
  <xsd:sequence>
    <xsd:element name="allocation" type=" Allocation " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Amendment**

Super-types:	<a href="#">Event</a> < <b>Amendment</b> (by extension)
Sub-types:	None

Name	Amendment
Abstract	no
Documentation	An event type that defines the content of an Amendment transaction.

XML Instance Representation

```
<...>
  <eventId> EventId </eventId> [0..*]
  ''

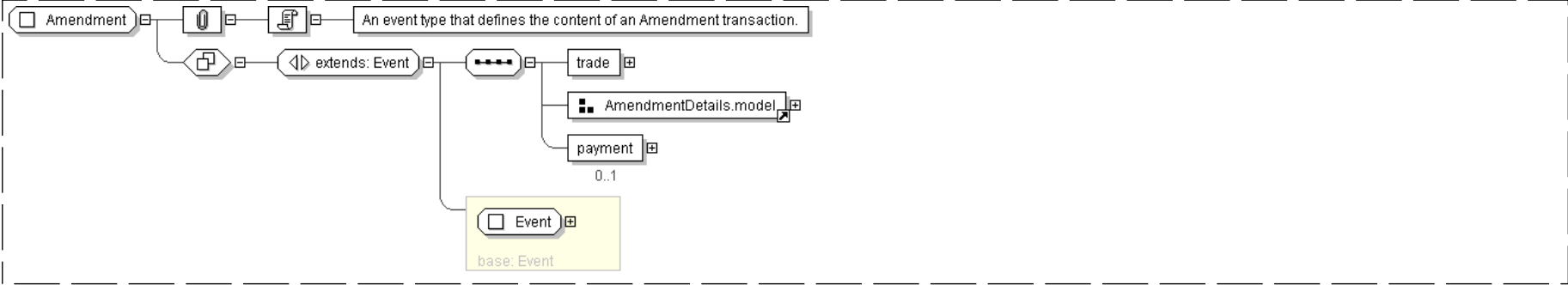
  <trade> Trade </trade> [1]
  <amendmentTradeDate> xsd:date </amendmentTradeDate> [1]
  'The date on which the the parties enter into the Amendment transaction'

  <amendmentEffectiveDate> xsd:date </amendmentEffectiveDate> [1]
  'The date on which the Amendment becomes effective'

  <payment> Payment </payment> [0..1]
  'A payment for the right to amend the trade.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Amendment">
  <xsd:complexContent>
    <xsd:extension base=" Event ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade "/>
        <xsd:group ref=" AmendmentDetails.model "/>
        <xsd:element name="payment" type=" Payment " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **Approval**

Super-types:	None
--------------	------

Sub-types:	None
Name	Approval
Used by (from the same schema document)	Complex Type <a href="#">Approvals</a>
Abstract	no
Documentation	A specific approval state in the workflow.

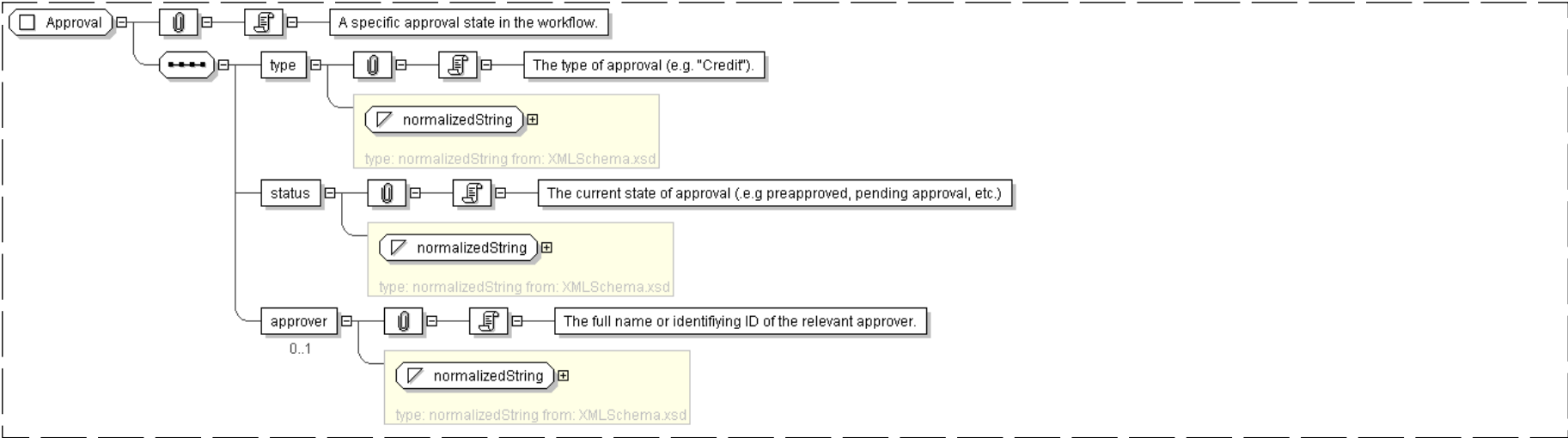
XML Instance Representation

```
<...>
  <type> xsd:normalizedString </type> [1]
  'The type of approval (e.g. \"Credit\").'

  <status> xsd:normalizedString </status> [1]
  'The current state of approval (.e.g preapproved, pending approval, etc.)'

  <approver> xsd:normalizedString </approver> [0..1]
  'The full name or identifying ID of the relevant approver.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Approval">
  <xsd:sequence>
    <xsd:element name="type" type="xsd:normalizedString" />
    <xsd:element name="status" type="xsd:normalizedString" />
    <xsd:element name="approver" type="xsd:normalizedString" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Approvals**

Super-types:	None
Sub-types:	None
Name	Approvals

```
<...>
  <approval> Approval </approval> [1..*]
</...>
```

Diagram illustrating a sequence of steps in a process flow:

```
graph LR; A[Approvals] --> B[ ]; B --> C[approval];
```

The diagram shows a sequence of steps connected by arrows. The first step is a box labeled "Approvals". An arrow points from "Approvals" to a second box, which is empty. Another arrow points from the second box to a third box labeled "approval". The "approval" box has a small "+" icon in the top right corner and the text "1..∞" below it.

```
<xsd:complexType name="Approvals">
  <xsd:sequence>
    <xsd:element name="approval" type="Approval" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **BestFitTrade**

<i>Super-types:</i>	None
<i>Sub-types:</i>	None

<b>Name</b>	BestFitTrade
<b><u>Abstract</u></b>	no
<b>Documentation</b>	A type used to record the differences between the current trade and another indicated trade.

```
<...>
<tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
'The identifier for the trade compared against.'

<differences> TradeDifference </differences> [0..*]
'An optional set of detailed difference records.'

</...>
```

```

classDiagram
    class BestFitTrade {
        tradeIdentifier TradIdentifier
        differences TradeDifference
    }
    class TradIdentifier
    class TradeDifference
    BestFitTrade "0..∞" -- "1" TradeDifference
    
```

```
<xsd:complexType name="BestFitTrade">
```

```
<xsd:sequence>
  <xsd:element name="tradeIdentifier" type=" TradeIdentifier" />
  <xsd:element name="differences" type=" TradeDifference " minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **BlockTradeIdentifier**

Super-types:	<a href="#">TradeIdentifier</a> < <a href="#">PartyTradeIdentifier</a> (by extension) < <b>BlockTradeIdentifier</b> (by extension)
Sub-types:	None

Name	BlockTradeIdentifier
Abstract	no
Documentation	This type is used to identify that a trade id is referring to a bock trade.

XML Instance Representation

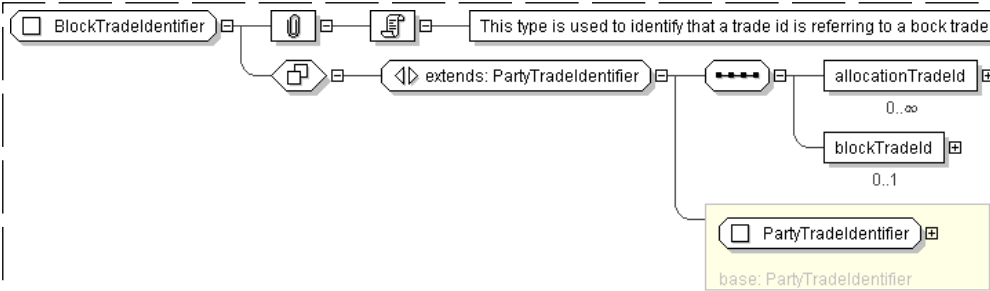
```
<...
id=" xsd:ID [0..1]*">
  <partyReference> PartyReference </partyReference> [1]
  'A pointer style reference to a party identifier defined elsewhere in the document. The
  party referenced has allocated the trade identifier.'

  Start Choice [1..*]
    <tradeId> TradeId </tradeId> [1]
    <versionedTradeId> VersionedTradeId </versionedTradeId> [1]
  End Choice
  <linkId> LinkId </linkId> [0..*]
  'A link identifier allowing the trade to be associated with other related trades, e.g.
  the linkId may contain a tradeId for an associated trade or several related trades may be
  given the same linkId. FpML does not define the domain values associated with this
  element. Note that the domain values for this element are not strictly an enumerated list.'

  <allocationTradeId> PartyTradeIdentifier </allocationTradeId> [0..*]
  'The trade id of the allocated trade. This is used by the block trade to reference
  the allocated trade.'

  <blockTradeId> PartyTradeIdentifier </blockTradeId> [0..1]
  'The trade id of the parent trade for N-level allocations. This element is only used to model
  N-level allocations in which the trade acts as block and allocated trade at the same time.
  This basically means the ability to allocate a block trade to multiple allocation trades,
  and then allocate these in turn to other allocation trades (and so on if desired).'
```

Diagram



Schema Component Representation



```
<xsd:complexType name="BlockTradeIdentifier">
  <xsd:complexContent>
    <xsd:extension base=" PartyTradeIdentifier " >
      <xsd:sequence>
        <xsd:element name="allocationTradeId" type=" PartyTradeIdentifier "
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="blockTradeId" type=" PartyTradeIdentifier " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ChangeContract**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">ChangeContractSize</a> (by extension)</li><li>• <a href="#">ContractTermination</a> (by extension)</li></ul>

Name	ChangeContract
Abstract	yes
Documentation	Abstract base class for changes to a Contract.

XML Instance Representation

```
<...>
  <contractReference> ContractReference </contractReference> [1]
  'Identification of the Contract which is subject to change.'

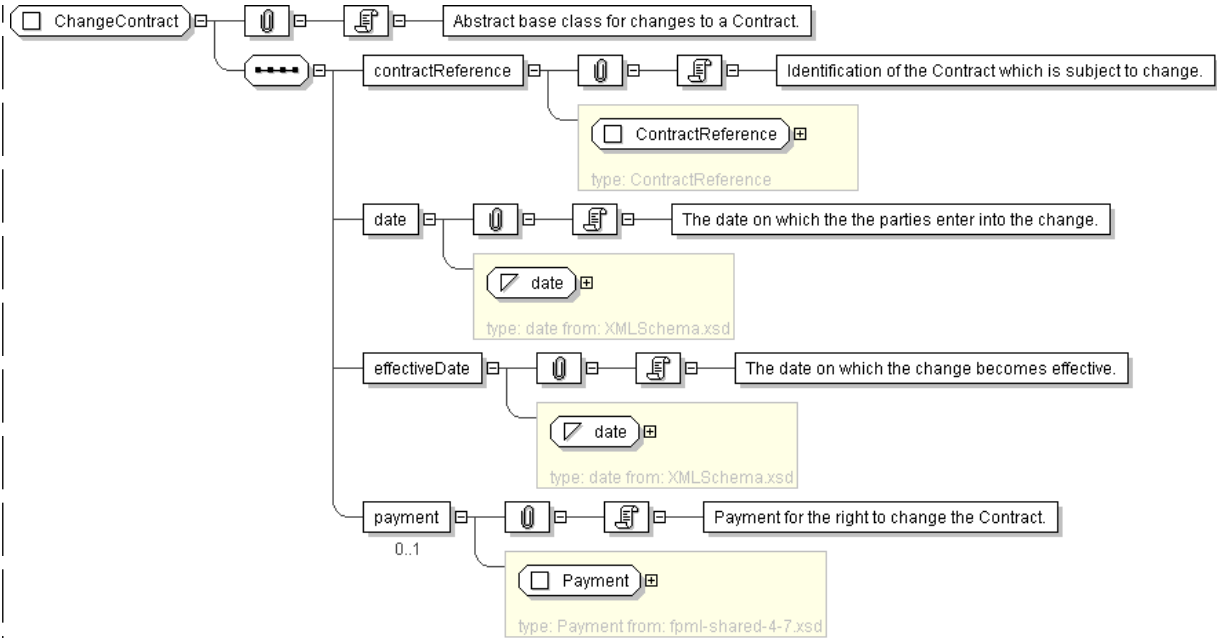
  <date> xsd:date </date> [1]
  'The date on which the the parties enter into the change.'

  <effectiveDate> xsd:date </effectiveDate> [1]
  'The date on which the change becomes effective.'

  <payment> Payment </payment> [0..1]
  'Payment for the right to change the Contract.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ChangeContract" abstract="true">
  <xsd:sequence>
    <xsd:element name="contractReference" type="ContractReference" />
    <xsd:element name="date" type="xsd:date" />
    <xsd:element name="effectiveDate" type="xsd:date" />
    <xsd:element name="payment" type="Payment" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ChangeContractSize**

Super-types:	<a href="#">ChangeContract</a> < <b>ChangeContractSize</b> (by extension)
Sub-types:	None

Name	ChangeContractSize
Abstract	no
Documentation	Represent a change in Contract Size.

XML Instance Representation

```
<...>
  <contractReference> ContractReference </contractReference> [1]
  'Identification of the Contract which is subject to change.'

  <date> xsd:date </date> [1]
  'The date on which the the parties enter into the change.'

  <effectiveDate> xsd:date </effectiveDate> [1]
  'The date on which the change becomes effective.'

  <payment> Payment </payment> [0..1]
```

'Payment for the right to change the Contract.'

Start Choice [1]

<changeInNotionalAmount> Money </changeInNotionalAmount> [1]

'Specifies the fixed amount by which the Notional Amount changes.'

<outstandingNotionalAmount> Money </outstandingNotionalAmount> [1]

'Specifies the Notional amount after the Change.'

<changeInNumberOfOptions> xsd:decimal </changeInNumberOfOptions> [1]

'Specifies the fixed amount by which the Number of Options changes.'

<outstandingNumberOfOptions> xsd:decimal </outstandingNumberOfOptions> [1]

'Specifies the Number of Options after the Change.'

<changeInNumberOfUnits> xsd:decimal </changeInNumberOfUnits> [1]

'Specifies the fixed amount by which the Number of Units changes.'

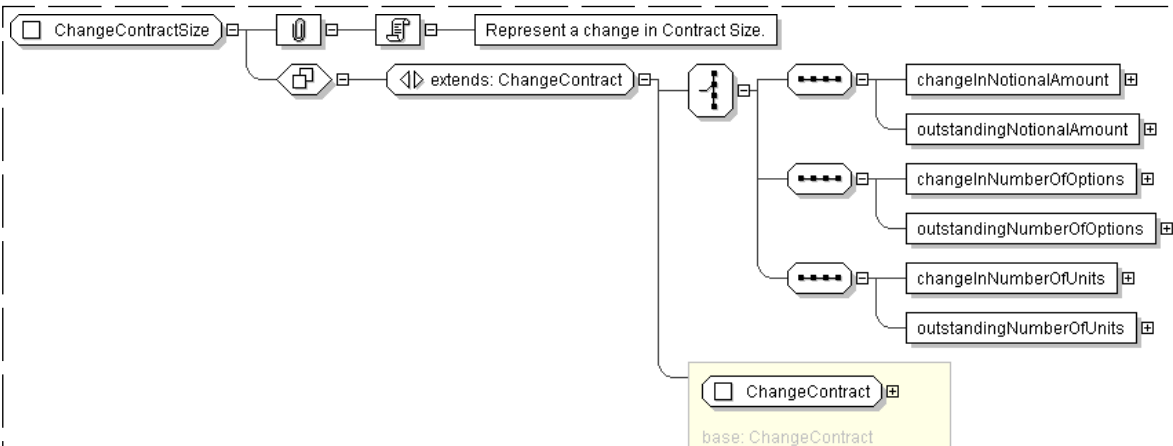
<outstandingNumberOfUnits> xsd:decimal </outstandingNumberOfUnits> [1]

'Specifies the Number of Units.'

End Choice

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="ChangeContractSize">
  <xsd:complexContent>
    <xsd:extension base="ChangeContract">
      <xsd:choice>
        <xsd:sequence>
          <xsd:element name="changeInNotionalAmount" type="Money"/>
          <xsd:element name="outstandingNotionalAmount" type="Money"/>
        </xsd:sequence>
        <xsd:sequence>
          <xsd:element name="changeInNumberOfOptions" type="xsd:decimal"/>
          <xsd:element name="outstandingNumberOfOptions" type="xsd:decimal"/>
        </xsd:sequence>
        <xsd:sequence>
          <xsd:element name="changeInNumberOfUnits" type="xsd:decimal"/>
          <xsd:element name="outstandingNumberOfUnits" type="xsd:decimal"/>
        </xsd:sequence>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
  
```

```
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: Collateral

Super-types:	None
Sub-types:	None
Name	Collateral
Used by (from the same schema document)	Complex Type <a href="#">Contract</a> , Complex Type <a href="#">Trade</a> , Model Group <a href="#">AllocationContent.model</a>
Abstract	no
Documentation	A type for defining the obligations of the counterparty subject to credit support requirements.

XML Instance Representation

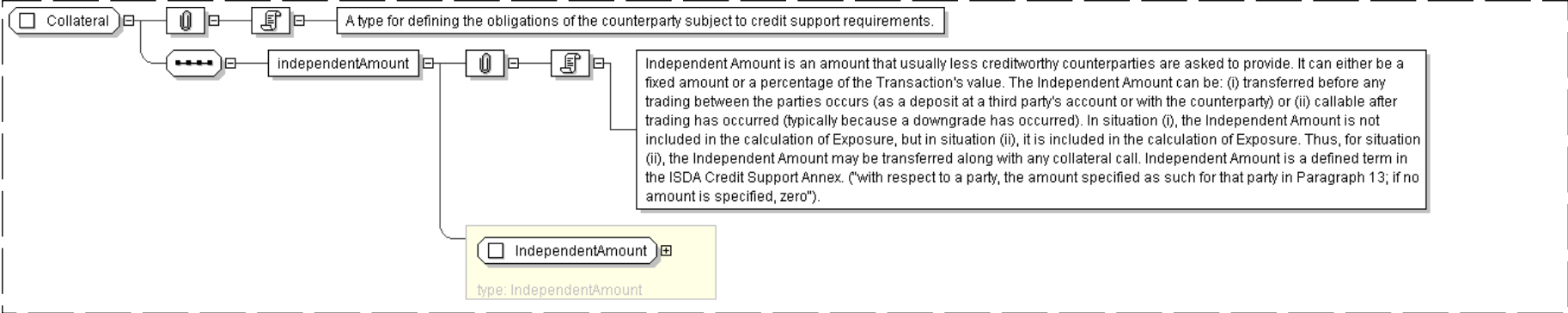
<...>

<independentAmount> [IndependentAmount](#) </independentAmount> [1]

'Independent Amount is an amount that usually less creditworthy counterparties are asked to provide. It can either be a fixed amount or a percentage of the Transaction\'s value. The Independent Amount can be: (i) transferred before any trading between the parties occurs (as a deposit at a third party\'s account or with the counterparty) or (ii) callable after trading has occurred (typically because a downgrade has occurred). In situation (i), the Independent Amount is not included in the calculation of Exposure, but in situation (ii), it is included in the calculation of Exposure. Thus, for situation (ii), the Independent Amount may be transferred along with any collateral call. Independent Amount is a defined term in the ISDA Credit Support Annex. (\'with respect to a party, the amount specified as such for that party in Paragraph 13; if no amount is specified, zero\').'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Collateral">
  <xsd:sequence>
    <xsd:element name="independentAmount" type="IndependentAmount" />
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: Contract

Super-types:	None
Sub-types:	None

Name	Contract
Used by (from the same schema document)	Model Group <a href="#">ContractNovationDetails.model</a> , Model Group <a href="#">ContractNovationDetails.model</a> , Model Group <a href="#">ContractNovationDetails.model</a> , Model Group <a href="#">ContractOrContractReference.model</a>
Abstract	no
Documentation	Definition of a Financial Contract.

XML Instance Representation

```
<...>
  <header> ContractHeader </header> [1]
  'Contract header containing identification and other information which is independent of
  the type of financial product which is the subject of this contract.'

  <product> ... </product> [1]
  <otherPartyPayment> Payment </otherPartyPayment> [0..*]
  'Other fees or additional payments associated with the contract, e.g. broker commissions,
  where one or more of the parties involved are not principal parties involved in the contract.'

  <calculationAgent> CalculationAgent </calculationAgent> [0..1]
  'The ISDA calculation agent responsible for performing duties as defined in the
  applicable product definitions.'

  <calculationAgentBusinessCenter> BusinessCenter </calculationAgentBusinessCenter> [0..1]
  'The city in which the office through which ISDA Calculation Agent is acting for purposes
  of the transaction is located The short-form confirm for a trade that is executed under
  a Sovereign or Asia Pacific Master Confirmation Agreement ( MCA ), does not need to specify
  the Calculation Agent. However, the confirm does need to specify the Calculation Agent
  City. This is due to the fact that the MCA sets the value for Calculation Agent but does
  not set the value for Calculation Agent City.'

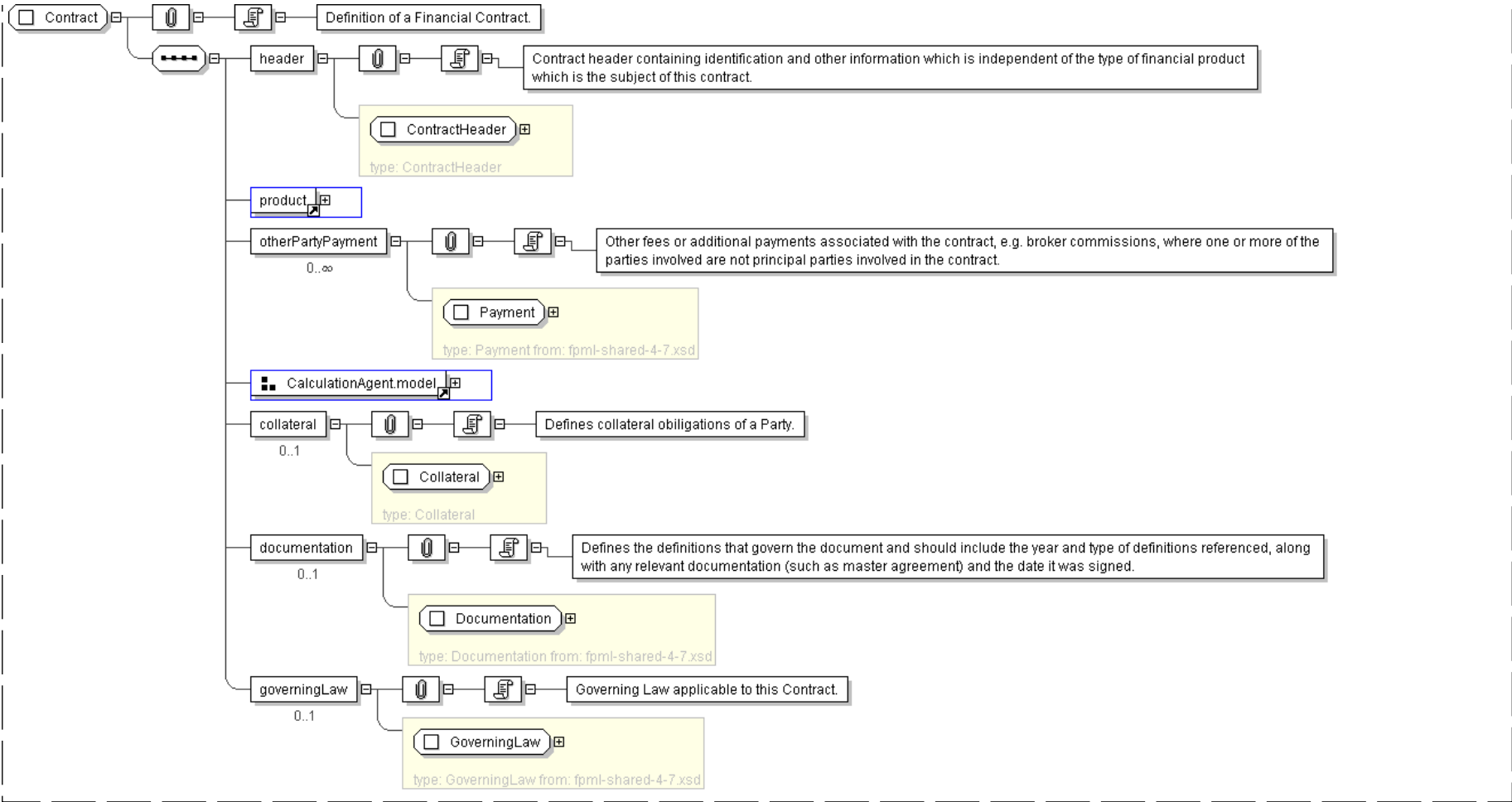
  <collateral> Collateral </collateral> [0..1]
  'Defines collateral obligations of a Party.'

  <documentation> Documentation </documentation> [0..1]
  'Defines the definitions that govern the document and should include the year and type
  of definitions referenced, along with any relevant documentation (such as master agreement)
  and the date it was signed.'

  <governingLaw> GoverningLaw </governingLaw> [0..1]
  'Governing Law applicable to this Contract.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Contract">
  <xsd:sequence>
    <xsd:element name="header" type=" ContractHeader " />
    <xsd:element ref=" product " />
    <xsd:element name="otherPartyPayment" type=" Payment " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:group ref=" CalculationAgent.model " />
    <xsd:element name="collateral" type=" Collateral " minOccurs="0"/>
    <xsd:element name="documentation" type=" Documentation " minOccurs="0"/>
    <xsd:element name="governingLaw" type=" GoverningLaw " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractHeader**

Super-types:	None
Sub-types:	None
Name	ContractHeader

Used by (from the same schema document)	Complex Type <a href="#">Contract</a>
Abstract	no
Documentation	Contract header containing identification and other information which is independent of the type of financial product.

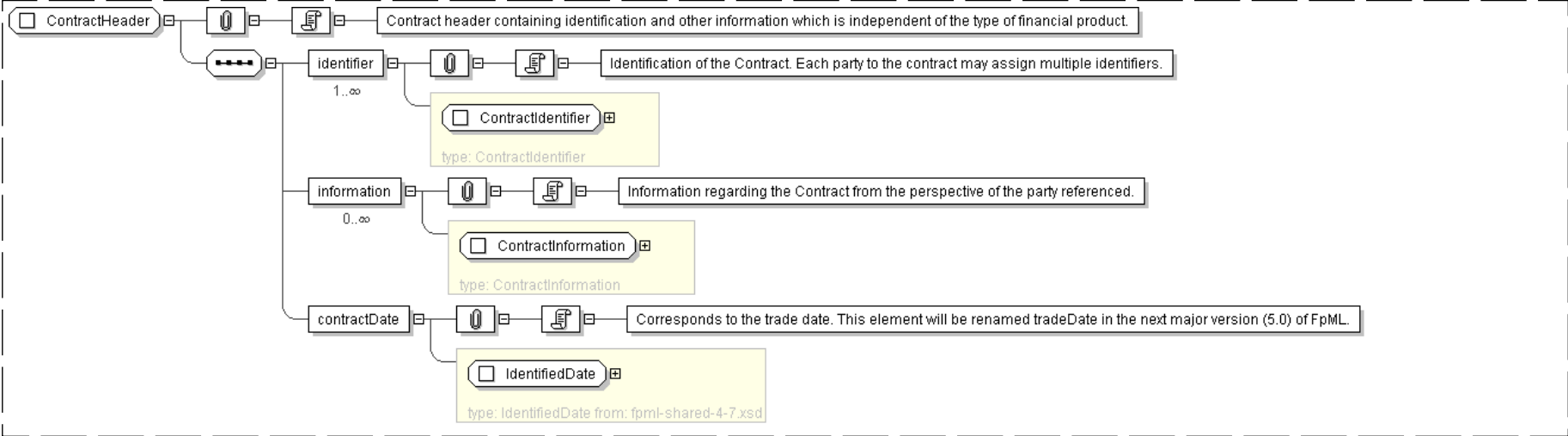
XML Instance Representation

```
<...>
  <identifier> ContractIdentifier </identifier> [1..*]
  'Identification of the Contract. Each party to the contract may assign multiple identifiers.'

  <information> ContractInformation </information> [0..*]
  'Information regarding the Contract from the perspective of the party referenced.'

  <contractDate> IdentifiedDate </contractDate> [1]
  'Corresponds to the trade date. This element will be renamed tradeDate in the next
  major version (5.0) of FpML.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractHeader">
  <xsd:sequence>
    <xsd:element name="identifier" type=" ContractIdentifier " maxOccurs="unbounded"/>
    <xsd:element name="information" type=" ContractInformation "
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="contractDate" type=" IdentifiedDate "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractId**

Super-types:	<a href="#">Scheme</a> < <b>ContractId</b> (by extension)
Sub-types:	None

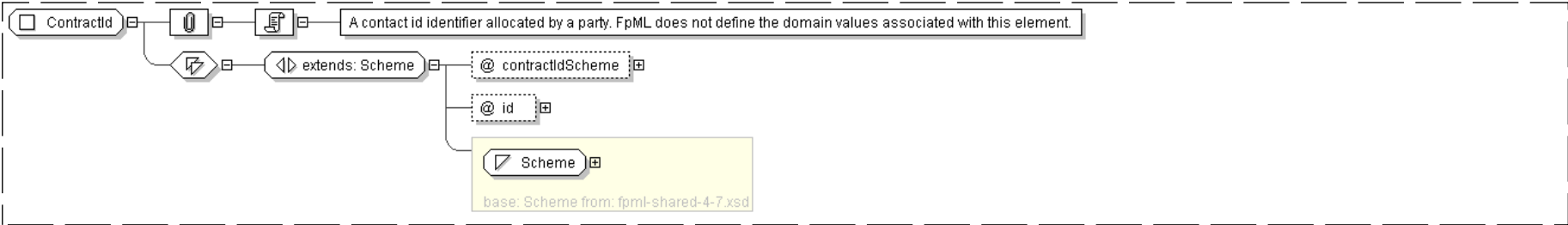
Name	ContractId
Used by (from the same schema document)	Complex Type <a href="#">ContractIdentifier</a> , Complex Type <a href="#">VersionedContractId</a>

Abstract	no
Documentation	A contact id identifier allocated by a party. FpML does not define the domain values associated with this element.

XML Instance Representation

```
<...  
  contractIdScheme=" xsd:anyURI [1]"  
  id=" xsd:ID [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractId">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="contractIdScheme" type=" xsd:anyURI " use="required"/>  
      <xsd:attribute name="id" type=" xsd:ID "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **ContractIdentifier**

Super-types:	None
Sub-types:	None
Name	ContractIdentifier
Used by (from the same schema document)	Complex Type <a href="#">ContractHeader</a> , Complex Type <a href="#">ContractReference</a>
Abstract	no
Documentation	A type defining a contract identifier issued by the indicated party.

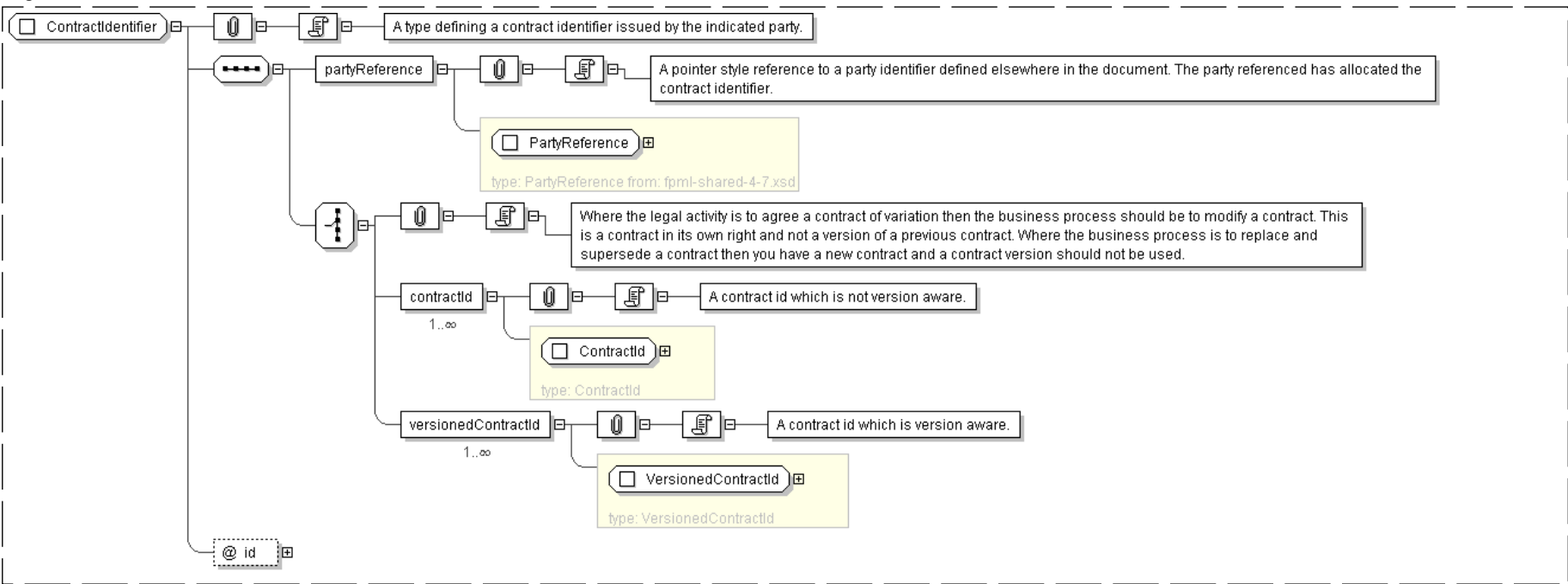
XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <partyReference> PartyReference </partyReference> [1]  
    'A pointer style reference to a party identifier defined elsewhere in the document. The  
    party referenced has allocated the contract identifier.'  
  </...>  
  Start Choice [1]  
  'Where the legal activity is to agree a contract of variation then the business process  
  should be to modify a contract. This is a contract in its own right and not a version of  
  a previous contract. Where the business process is to replace and supersede a contract then  
  you have a new contract and a contract version should not be used.'  
  <contractId> ContractId </contractId> [1..*]  
  'A contract id which is not version aware.'
```



```
<versionedContractId> VersionedContractId </versionedContractId> [1..*]  
'A contract id which is version aware.'  
  
End Choice  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractIdentifier">  
  <xsd:sequence>  
    <xsd:element name="partyReference" type=" PartyReference " />  
    <xsd:choice>  
      <xsd:element name="contractId" type=" ContractId " maxOccurs="unbounded"/>  
      <xsd:element name="versionedContractId" type=" VersionedContractId " maxOccurs="unbounded"/>  
    </xsd:choice>  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID " />  
</xsd:complexType>
```

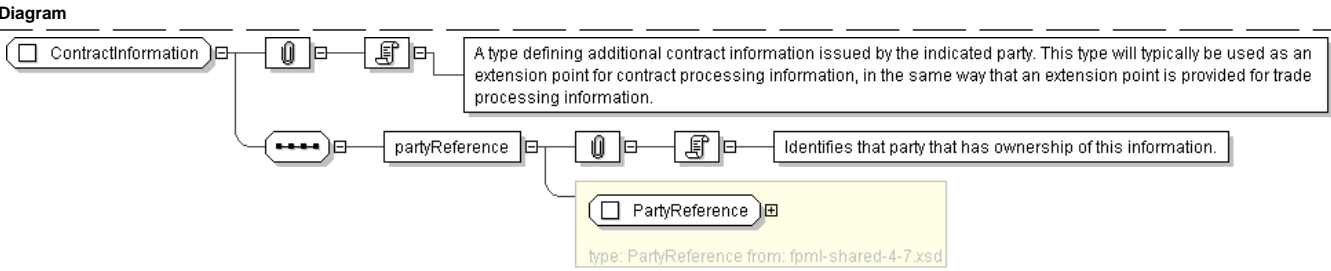
[top](#)

Complex Type: **ContractInformation**

Super-types:	None
Sub-types:	None
Name	ContractInformation
Used by (from the same schema document)	Complex Type <a href="#">ContractHeader</a>
Abstract	no
Documentation	A type defining additional contract information issued by the indicated party. This type will typically be used as an extension point for contract processing information, in the same way that an extension point is provided for trade processing information.

XML Instance Representation

```
<...>
  <partyReference> PartyReference </partyReference> [1]
  'Identifies that party that has ownership of this information.'
</...>
```



**Schema Component Representation**

```
<xsd:complexType name="ContractInformation">
  <xsd:sequence>
    <xsd:element name="partyReference" type=" PartyReference "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractNovation**

Super-types:	None
Sub-types:	None
Name	ContractNovation
Abstract	no
Documentation	Details of the Contract Novation.

**XML Instance Representation**

```
<...>
Start Choice [1]
Start Choice [1]
'Choice between identification and representation of the new contract.'

  <newContractReference> ContractReference </newContractReference> [1]
  'Indicates a reference to the new Contract between the transferee and the remaining party.'

  <newContract> Contract </newContract> [1]
  'Indicates the new Contract between the transferee and the remaining party.'

End Choice
Start Choice [1]
  <oldContractReference> ContractReference </oldContractReference> [1]
  'Indicates a reference to the original contract between the transferor and the remaining party.'

  <oldContract> Contract </oldContract> [1]
  'Indicates the original Contract between the transferor and the remaining party.'

End Choice
Start Choice [0..1]
'Choice between identification and representation of the new contract.'
```

```

<newContractReference> ContractReference </newContractReference> [1]
<newContract> Contract </newContract> [1]

```

End Choice

End Choice

```
<transferor> PartyReference </transferor> [1]
```

'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Transferor (outgoing party) in the novation. The Transferor means a party which transfers by novation to a Transferee all of its rights, liabilities, duties and obligations with respect to a Remaining Party. In a four-way novation the party referenced is Transferor 1 which transfers by novation to Transferee 1 all of its rights, liabilities, duties and obligations with respect to Transferor 2. ISDA 2004 Novation Term: Transferor (three-way novation) or Transferor 1 (four-way novation).'

```
<transferee> PartyReference </transferee> [1]
```

'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Transferee (incoming party) in the novation. Transferee means a party which accepts by way of novation all rights, liabilities, duties and obligations of a Transferor with respect to a Remaining Party. In a four-way novation the party referenced is Transferee 1 which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 1. ISDA 2004 Novation Term: Transferee (three-way novation) or Transferee 1 (four-way novation).'

```
<remainingParty> PartyReference </remainingParty> [1]
```

'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Remaining Party in the novation. Remaining Party means a party which consents to a Transferor\'s transfer by novation and the acceptance thereof by the Transferee of all of the Transferor\'s rights, liabilities, duties and obligations with respect to such Remaining Party under and with respect of the Novated Amount of a transaction. In a four-way novation the party referenced is Transferor 2 per the ISDA definition and acts in the role of a Transferor. Transferor 2 transfers by novation to Transferee 2 all of its rights, liabilities, duties and obligations with respect to Transferor 1. ISDA 2004 Novation Term: Remaining Party (three-way novation) or Transferor 2 (four-way novation).'

```
<otherRemainingParty> PartyReference </otherRemainingParty> [0..1]
```

'A pointer style reference to a party identifier defined elsewhere in the document. This element is not applicable in a three-way novation and should be omitted. In a four-way novation the party referenced is Transferee 2. Transferee 2 means a party which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 2. ISDA 2004 Novation Term: Transferee 2 (four-way novation).'

```
<novationDate> xsd:date </novationDate> [1]
```

'Specifies the date that one party\'s legal obligations with regard to a trade are transferred to another party. It corresponds to the Novation Date section of the 2004 ISDA Novation Definitions, section 1.16.'

```
<novationContractDate> xsd:date </novationContractDate> [0..1]
```

'Specifies the date the parties agree to assign or novate a Contract. If this element is not specified, the novationContractDate will be deemed to be the novationDate. It corresponds to the Novation Trade Date section of the 2004 ISDA Novation Definitions, section 1.17.'

Start Choice [1]

'Choice for expressing the novated amount as either a money amount, number of options, or number of units, according the the financial product which is being novated.'

```
<novatedAmount> Money </novatedAmount> [1]
```

'The amount which represents the portion of the Old Contract being novated.'

```
<novatedNumberOfOptions> xsd:decimal </novatedNumberOfOptions> [1]
```

'The number of options which represent the portion of the Old Contract being novated.'

```
<novatedNumberOfUnits> xsd:decimal </novatedNumberOfUnits> [1]
```

'The number of options which represent the portion of the Old Contract being novated.'

'End Choice'

<fullFirstCalculationPeriod> xsd:boolean </fullFirstCalculationPeriod> [0..1]

'This element corresponds to the applicability of the Full First Calculation Period as defined in the 2004 ISDA Novation Definitions, section 1.20.'

<firstPeriodStartDate> FirstPeriodStartDate </firstPeriodStartDate> [0..2]

'Element that is used to be able to make sense of the "new transaction" without requiring reference back to the "old transaction". In the case of interest rate products there are potentially 2 "first period start dates" to reference - one with respect to each party to the new transaction. For Credit Default Swaps there is just the one with respect to the party that is the fixed rate payer.'

<nonReliance> Empty </nonReliance> [0..1]

'This element corresponds to the non-Reliance section in the 2004 ISDA Novation Definitions, section 2.1 (c) (i). The element appears in the instance document when non-Reliance is applicable.'

<creditDerivativesNotices> CreditDerivativesNotices </creditDerivativesNotices> [0..1]

'This element should be specified if one or more of either a Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party. The type of notice or notices that have been delivered should be indicated by setting the relevant boolean element value(s) to true. The absence of the element means that no Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party.'

<contractualDefinitions> ContractualDefinitions </contractualDefinitions> [0..\*]

'The definitions (such as those published by ISDA) that will define the terms of the novation transaction.'

<contractualTermsSupplement> ContractualTermsSupplement </contractualTermsSupplement> [0..\*]

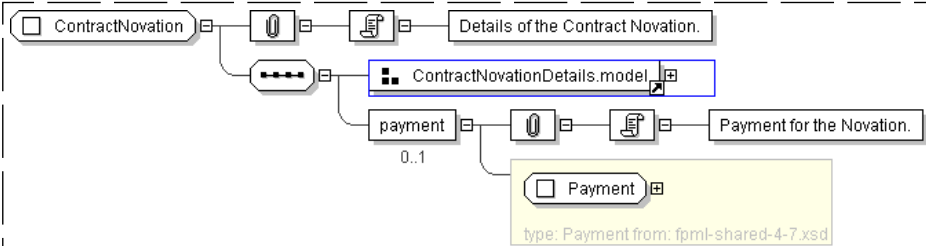
'A contractual supplement (such as those published by ISDA) that will apply to the trade.'

<payment> Payment </payment> [0..1]

'Payment for the Novation.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractNovation">
  <xsd:sequence>
    <xsd:group ref="ContractNovationDetails.model"/>
    <xsd:element name="payment" type="Payment" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

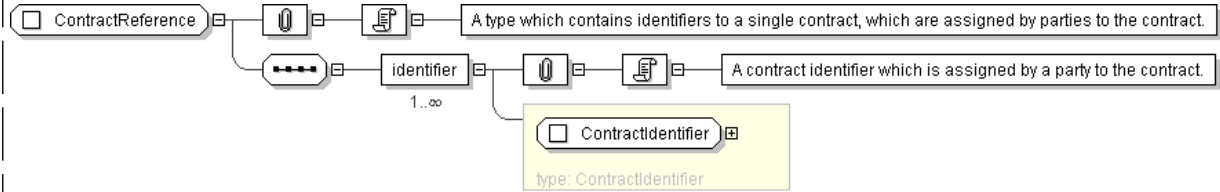
Super-types:	None
Sub-types:	None

Name	ContractReference
Used by (from the same schema document)	Complex Type <a href="#">ChangeContract</a> , Model Group <a href="#">ContractNovationDetails.model</a> , Model Group <a href="#">ContractNovationDetails.model</a> , Model Group <a href="#">ContractNovationDetails.model</a> , Model Group <a href="#">ContractOrContractReference.model</a>
Abstract	no
Documentation	A type which contains identifiers to a single contract, which are assigned by parties to the contract.

XML Instance Representation

```
<...>
  <identifier> ContractIdentifier </identifier> [1..*]
  'A contract identifier which is assigned by a party to the contract.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractReference">
  <xsd:sequence>
    <xsd:element name="identifier" type="ContractIdentifier" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractTermination**

Super-types:	<a href="#">ChangeContract</a> < <b>ContractTermination</b> (by extension)
Sub-types:	None

Name	ContractTermination
Abstract	no
Documentation	Contract Termination Details.

XML Instance Representation

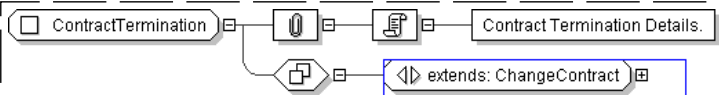
```
<...>
  <contractReference> ContractReference </contractReference> [1]
  'Identification of the Contract which is subject to change.'

  <date> xsd:date </date> [1]
  'The date on which the the parties enter into the change.'

  <effectiveDate> xsd:date </effectiveDate> [1]
  'The date on which the change becomes effective.'

  <payment> Payment </payment> [0..1]
  'Payment for the right to change the Contract.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractTermination">
  <xsd:complexContent>
    <xsd:extension base="ChangeContract" />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CreditDerivativesNotices**

Super-types:	None
Sub-types:	None
Name	CreditDerivativesNotices
Used by (from the same schema document)	Model Group <a href="#">ContractNovationDetails.model</a>
Abstract	no

XML Instance Representation

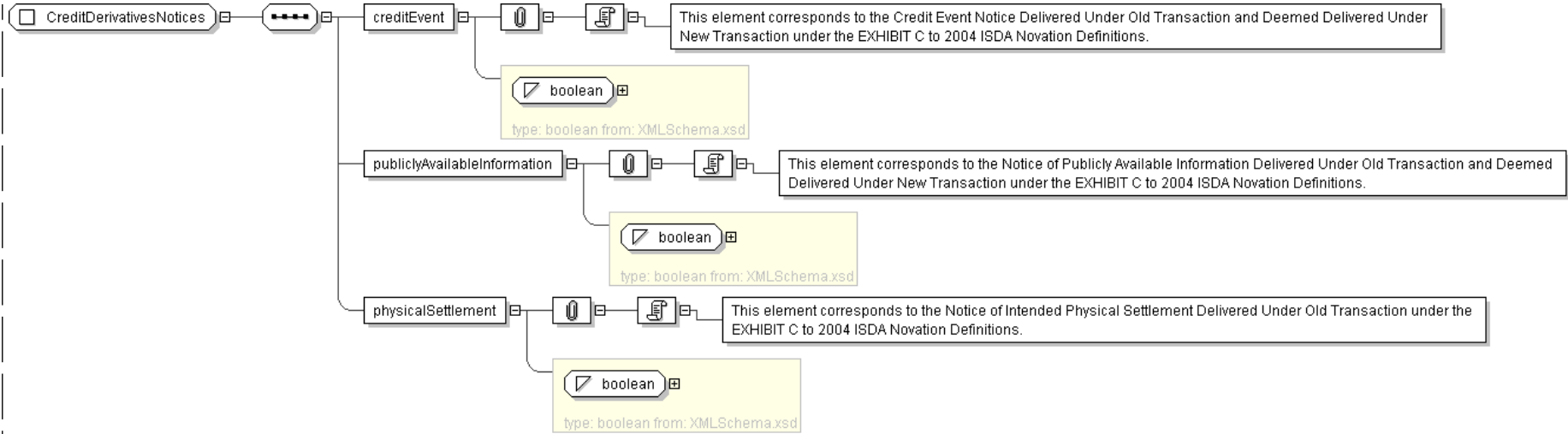
```
<...>
  <creditEvent xsd:boolean /> </creditEvent> [1]
  'This element corresponds to the Credit Event Notice Delivered Under Old Transaction and Deemed Delivered Under New Transaction under the EXHIBIT C to 2004 ISDA Novation Definitions.'

  <publiclyAvailableInformation xsd:boolean /> </publiclyAvailableInformation> [1]
  'This element corresponds to the Notice of Publicly Available Information Delivered Under Old Transaction and Deemed Delivered Under New Transaction under the EXHIBIT C to 2004 ISDA Novation Definitions.'

  <physicalSettlement xsd:boolean /> </physicalSettlement> [1]
  'This element corresponds to the Notice of Intended Physical Settlement Delivered Under Old Transaction under the EXHIBIT C to 2004 ISDA Novation Definitions.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditDerivativesNotices">
  <xsd:sequence>
    <xsd:element name="creditEvent" type="xsd:boolean" />
    <xsd:element name="publiclyAvailableInformation" type="xsd:boolean" />
    <xsd:element name="physicalSettlement" type="xsd:boolean" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: DataDocument

Super-types:	<a href="#">Document</a> < DataDocument (by extension)
Sub-types:	None
Name	DataDocument
Abstract	no
Documentation	A type defining a content model that is backwards compatible with older FpML releases and which can be used to contain sets of data without expressing any processing intention.

XML Instance Representation

```
<...
version="xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]"
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild="xsd:positiveInteger [0..1]"
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]"
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation)
```

the actual build number stays the same.'

">  
<validation> Validation </validation> [0..\*]

Start Choice [1]

<trade> Trade </trade> [0..\*]

'The root element in an FpML trade document.'

<portfolio> Portfolio </portfolio> [0..\*]

'An arbitrary grouping of trade references (and possibly other portfolios).'

<event> ... </event> [1..\*]

'A business event.'

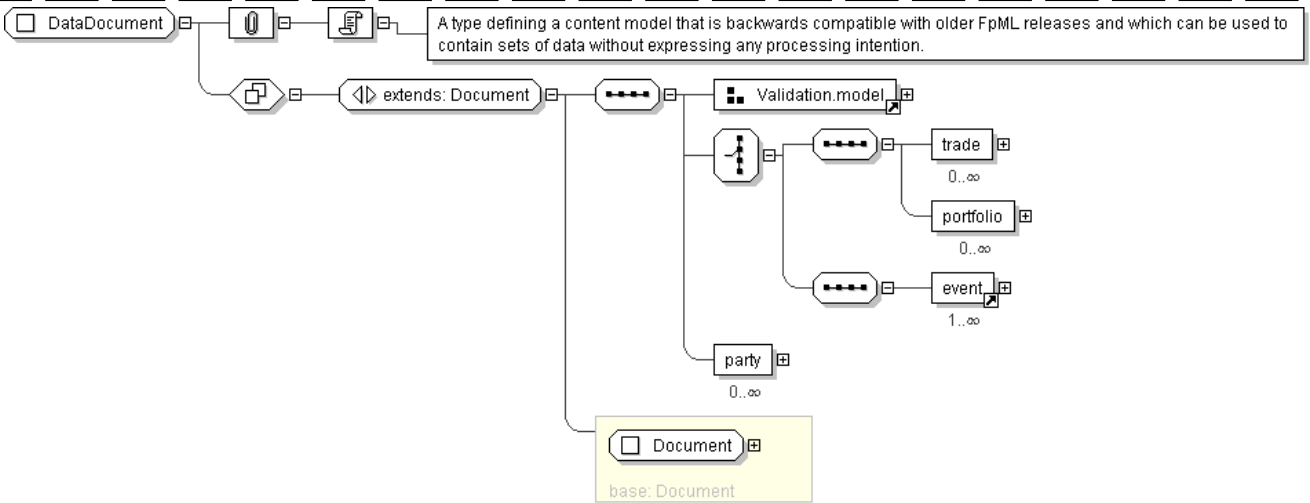
End Choice

<party> Party </party> [0..\*]

'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="DataDocument">  
  <xsd:complexContent>  
    <xsd:extension base=" Document " >  
      <xsd:sequence>  
        <xsd:group ref=" Validation.model " />  
        <xsd:choice>  
          <xsd:sequence>  
            <xsd:element name="trade" type=" Trade " minOccurs="0" maxOccurs="unbounded"/>  
            <xsd:element name="portfolio" type=" Portfolio " minOccurs="0" maxOccurs="unbounded"/>  
          </xsd:sequence>  
          <xsd:sequence>  
            <xsd:element ref=" event " maxOccurs="unbounded"/>  
          </xsd:sequence>  
        </xsd:choice>  
        <xsd:element name="party" type=" Party " minOccurs="0" maxOccurs="unbounded"/>  
      </xsd:extension>  
    </complexContent>  
  </complexType>
```



```
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **Document**

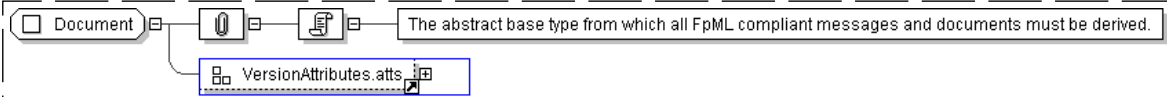
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DataDocument</a> (by extension)</li></ul>

Name	Document
Abstract	yes
Documentation	The abstract base type from which all FpML compliant messages and documents must be derived.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Document" abstract="true">
  <xsd:attributeGroup ref=" VersionAttributes.atts " />
</xsd:complexType>
```

[top](#)

Complex Type: **Event**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">Amendment</a> (by extension)</li><li><a href="#">Increase</a> (by extension)</li></ul>

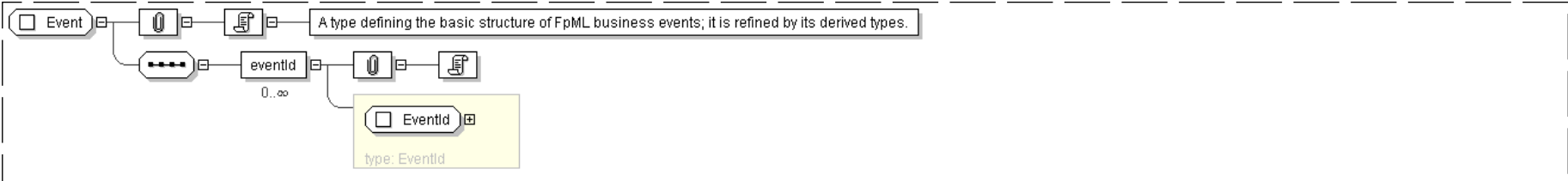
Name	Event
Used by (from the same schema document)	Element <a href="#">event</a>

Abstract	yes
Documentation	A type defining the basic structure of FpML business events; it is refined by its derived types.

XML Instance Representation

```
<...>
  <eventId> EventId </eventId> [0..*]
  ''
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Event" abstract="true">
  <xsd:sequence>
    <xsd:element name="eventId" type="EventId" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: EventId

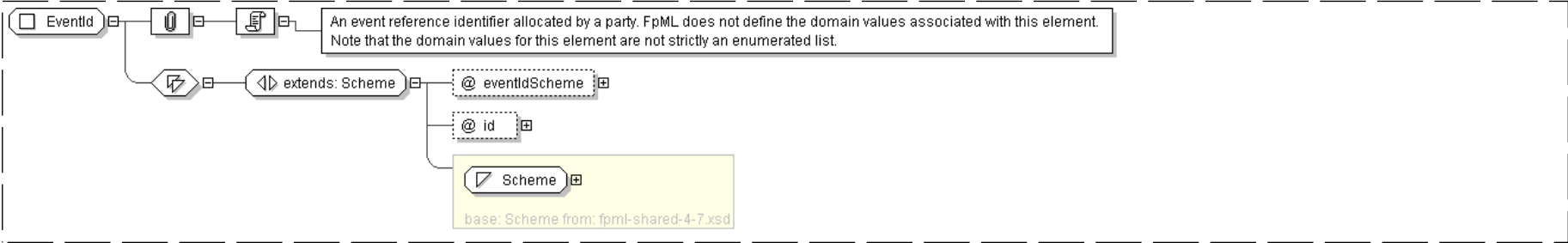
Super-types:	<a href="#">Scheme</a> < <b>EventId</b> (by extension)
Sub-types:	None

Name	EventId
Used by (from the same schema document)	Complex Type <a href="#">Event</a>
Abstract	no
Documentation	An event reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.

XML Instance Representation

```
<...
eventIdScheme=" xsd:anyURI [1]"
id=" xsd:ID [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EventId">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="eventIdScheme" type="xsd:anyURI" use="required" />
      <xsd:attribute name="id" type="xsd:ID" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: ExecutionDateTime

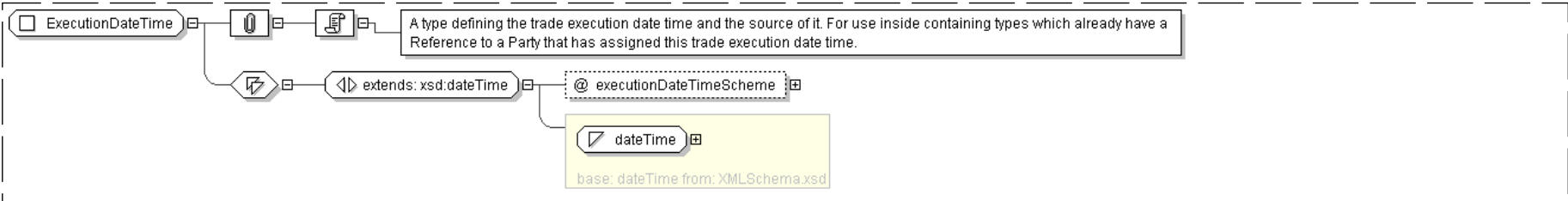
Super-types:	<a href="#">xsd:dateTime</a> < <b>ExecutionDateTime</b> (by extension)
Sub-types:	None

Name	ExecutionDateTime
Used by (from the same schema document)	Complex Type <a href="#">PartyTradeInformation</a>
Abstract	no
Documentation	A type defining the trade execution date time and the source of it. For use inside containing types which already have a Reference to a Party that has assigned this trade execution date time.

XML Instance Representation

```
<...
  executionDateTimeScheme="xsd:anyURI [0..1]
  'Identification of the source (e.g. clock id) generating the execution date time.'
">
  xsd:dateTime
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExecutionDateTime">
  <xsd:simpleContent>
    <xsd:extension base="xsd:dateTime" >
      <xsd:attribute name="executionDateTimeScheme" type="xsd:anyURI" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: FirstPeriodStartDate

Super-types:	<a href="#">xsd:date</a> < <b>FirstPeriodStartDate</b> (by extension)
Sub-types:	None

Name	FirstPeriodStartDate
Used by (from the same schema document)	Model Group <a href="#">ContractNovationDetails.model</a>
Abstract	no

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]">  
  xsd:date  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FirstPeriodStartDate">  
  <xsd:simpleContent>  
    <xsd:extension base=" xsd:date ">  
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="Party"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **Increase**

Super-types:	<a href="#">Event</a> < <b>Increase</b> (by extension)
Sub-types:	None

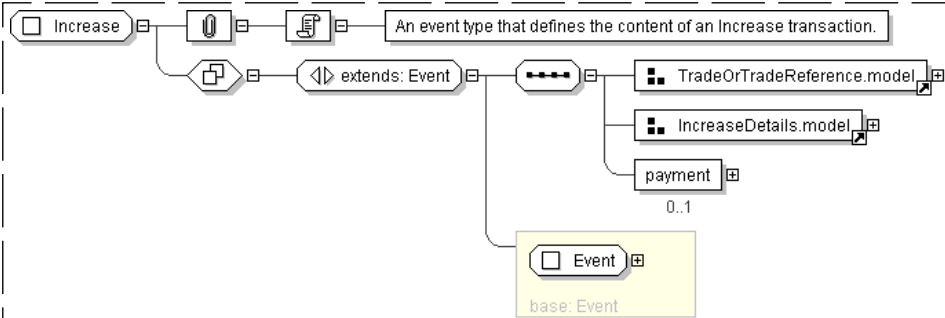
Name	Increase
Abstract	no
Documentation	An event type that defines the content of an Increase transaction.

XML Instance Representation

```
<...>  
  <eventId EventId </eventId> [0..*]  
    ''  
  </eventId>  
  
  Start Choice [1]  
    <trade> Trade </trade> [1]  
      'An element that allows the full details of the trade to be used as a mechanism for  
      identifying the trade for which the post-trade event pertains'  
  
      <tradeReference> PartyTradeIdentifiers </tradeReference> [1]  
        'A container since an individual trade can be referenced by two or more  
        different partyTradeIdentifier elements - each allocated by a different party.'  
      </tradeReference>  
    </trade>  
  </Choice>  
  
  <increaseTradeDate> xsd:date </increaseTradeDate> [1]  
    'The date on which the the parties enter into the Increase transaction'  
  </increaseTradeDate>  
  
  <increaseEffectiveDate> xsd:date </increaseEffectiveDate> [1]  
    'The date on which the Increase becomes effective'  
  </increaseEffectiveDate>  
  </Increase>  
</...>
```

```
<increaseInNotionalAmount> Money </increaseInNotionalAmount> [1]
'Specifies the fixed amount by which the Notional increases due to the Increase transaction.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Increase">
  <xsd:complexContent>
    <xsd:extension base="Event">
      <xsd:sequence>
        <xsd:group ref="TradeOrTradeReference.model"/>
        <xsd:group ref="IncreaseDetails.model"/>
        <xsd:element name="payment" type="Payment" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: IndependentAmount

Super-types:	None
Sub-types:	None
Name	IndependentAmount
Used by (from the same schema document)	Complex Type Collateral
Abstract	no

XML Instance Representation

```
<...>
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
```

'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> [PartyOrAccountReference](#) </receiverPartyReference> [1]

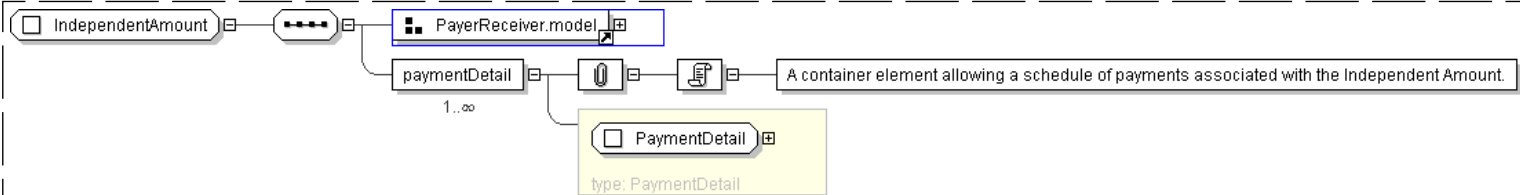
'A reference to the party that receives the payments corresponding to this structure.'

<paymentDetail> [PaymentDetail](#) </paymentDetail> [1..\*]

'A container element allowing a schedule of payments associated with the Independent Amount.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="IndependentAmount">
  <xsd:sequence>
    <xsd:group ref=" PayerReceiver.model " />
    <xsd:element name="paymentDetail" type=" PaymentDetail " maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LinkId**

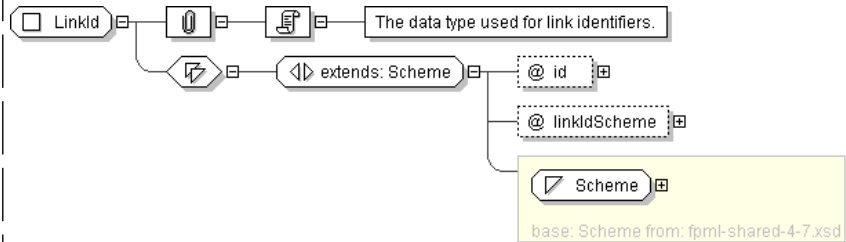
Super-types:	<a href="#">Scheme</a> < <b>LinkId</b> (by extension)
Sub-types:	None

Name	LinkId
Used by (from the same schema document)	Complex Type <a href="#">PartyTradeIdentifier</a>
Abstract	no
Documentation	The data type used for link identifiers.

XML Instance Representation

<...  
id=" [xsd:ID](#) [0..1]"  
linkIdScheme=" [xsd:anyURI](#) [1]">  
[Scheme](#)  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="LinkId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="id" type=" xsd:ID "/">
      <xsd:attribute name="linkIdScheme" type=" xsd:anyURI " use="required"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: PartyPortfolioName

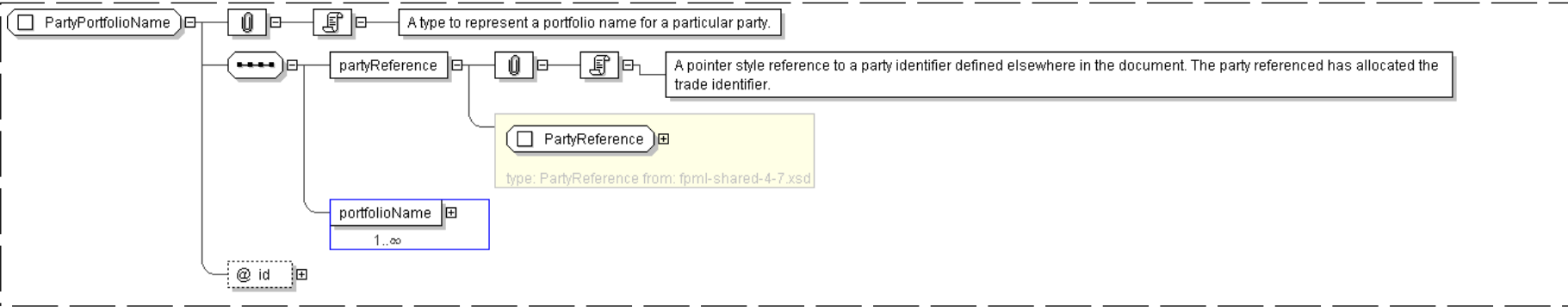
Super-types:	None
Sub-types:	None

Name	PartyPortfolioName
Used by (from the same schema document)	Complex Type <a href="#">Portfolio</a>
Abstract	no
Documentation	A type to represent a portfolio name for a particular party.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <partyReference> PartyReference </partyReference> [1]
  'A pointer style reference to a party identifier defined elsewhere in the document. The
  party referenced has allocated the trade identifier.'
  <portfolioName> PortfolioName </portfolioName> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyPortfolioName">
  <xsd:sequence>
    <xsd:element name="partyReference" type=" PartyReference " />
    <xsd:element name="portfolioName" type=" PortfolioName " maxOccurs="unbounded" />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID "/">
</xsd:complexType>
```

[top](#)

Complex Type: PartyRole

### XML Instance Representation

```
| End Choice
| </...>
```

[illegible]

```
<xsd:complexType name="PartyRole">
  <xsd:choice>
    <xsd:element name="party" type="PartyReference"/>
    <xsd:element name="account" type="AccountReference"/>
  </xsd:choice>
</xsd:complexType>
```

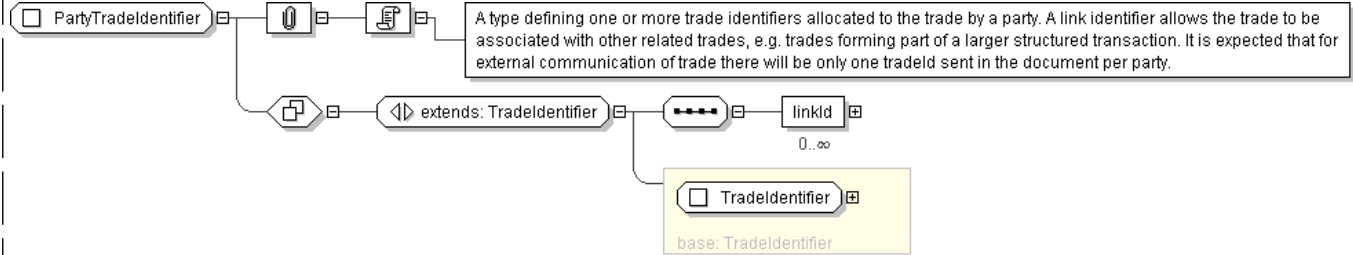


Name	PartyTradIdentifier
Used by (from the same schema document)	Complex Type <a href="#">Allocation</a> , Complex Type <a href="#">AllocationTradIdentifier</a> , Complex Type <a href="#">BlockTradIdentifier</a> , Complex Type <a href="#">BlockTradIdentifier</a> , Complex Type <a href="#">PartyTradIdentifiers</a> , Complex Type <a href="#">TradeHeader</a>
Abstract	no
Documentation	A type defining one or more trade identifiers allocated to the trade by a party. A link identifier allows the trade to be associated with other related trades, e. g. trades forming part of a larger structured transaction. It is expected that for external communication of trade there will be only one tradId sent in the document per party.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <partyReference> PartyReference </partyReference> [1]  
    'A pointer style reference to a party identifier defined elsewhere in the document. The  
    party referenced has allocated the trade identifier.'  
  
  Start Choice [1..*]  
    <tradeId> TradeId </tradeId> [1]  
    <versionedTradeId> VersionedTradeId </versionedTradeId> [1]  
  End Choice  
  <linkId> LinkId </linkId> [0..*]  
  'A link identifier allowing the trade to be associated with other related trades, e.g.  
  the linkId may contain a tradeId for an associated trade or several related trades may be  
  given the same linkId. FpML does not define the domain values associated with this  
  element. Note that the domain values for this element are not strictly an enumerated list.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyTradeIdentifier">  
  <xsd:complexContent>  
    <xsd:extension base=" TradeIdentifier ">  
      <xsd:sequence>  
        <xsd:element name="linkId" type=" LinkId " minOccurs="0" maxOccurs="unbounded"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **PartyTradeIdentifiers**

Super-types:	None
Sub-types:	None
Name	PartyTradIdentifiers
Used by (from the same schema document)	Model Group <a href="#">TradeOrTradeReference.model</a>
Abstract	no

Documentation

A type containing multiple partyTradeIdentifier.

XML Instance Representation

```
<...>
  <partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyTradeIdentifiers">
  <xsd:sequence>
    <xsd:element name="partyTradeIdentifier" type=" PartyTradeIdentifier " maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PartyTradeInformation**

Super-types:	None
Sub-types:	None

Name	PartyTradeInformation
Used by (from the same schema document)	Complex Type <a href="#">TradeHeader</a>
Abstract	no
Documentation	A type defining additional information that may be recorded against a trade.

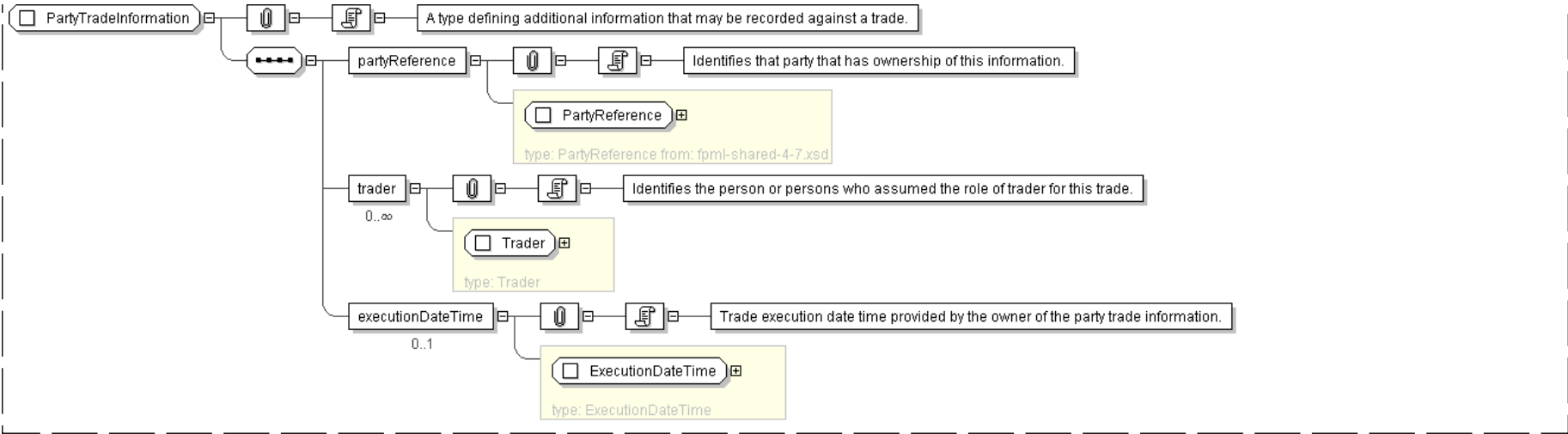
XML Instance Representation

```
<...>
  <partyReference> PartyReference </partyReference> [1]
  'Identifies that party that has ownership of this information.'

  <trader> Trader </trader> [0..*]
  'Identifies the person or persons who assumed the role of trader for this trade.'

  <executionDateTime> ExecutionDateTime </executionDateTime> [0..1]
  'Trade execution date time provided by the owner of the party trade information.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyTradeInformation">
  <xsd:sequence>
    <xsd:element name="partyReference" type="PartyReference" />
    <xsd:element name="trader" type="Trader" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="executionDateTime" type="ExecutionDateTime" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PaymentDetail**

Super-types:	<a href="#">PaymentBase</a> < <b>PaymentDetail</b> (by extension)
Sub-types:	None
Name	PaymentDetail
Used by (from the same schema document)	Complex Type <a href="#">IndependentAmount</a>
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [0..1]
  <adjustablePaymentDate> AdjustableDate2 </adjustablePaymentDate> [1]
  'A fixed amount payment date that shall be subject to adjustment in accordance with
  the applicable business day convention if it would otherwise fall on a day that is not
  a business day. The applicable business day convention and business day are those specified
  in the dateAdjustments element within the generalTerms component. ISDA 2003 Term: Fixed
  Rate Payer Payment Date.'

  <adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
  'The adjusted payment date. This date should already be adjusted for any applicable
  business day convention. This component is not intended for use in trade confirmation but
  may be specified to allow the fee structure to also serve as a cashflow type component.'
```

Start [Choice](#) [1]

<paymentAmount> [Money](#) </paymentAmount> [1]

'A fixed payment amount.'

<paymentRule> [PaymentRule](#) </paymentRule> [1]

'A type defining the calculation rule.'

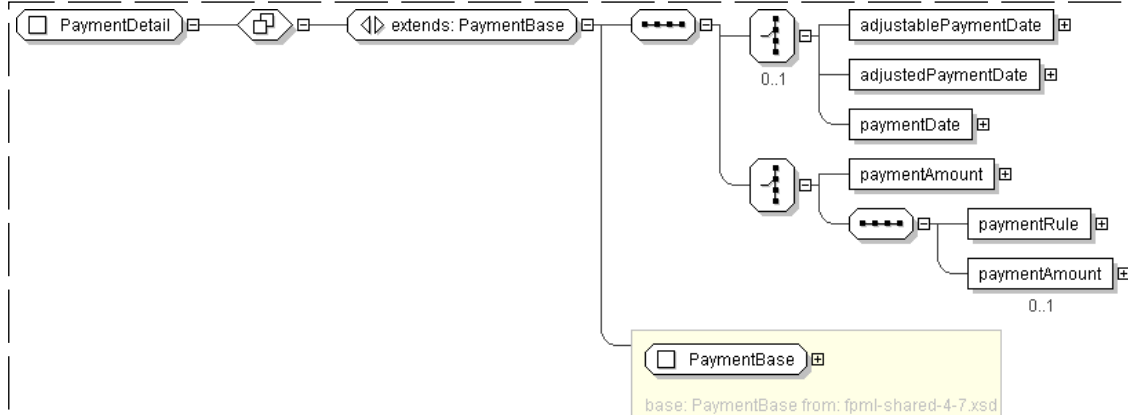
<paymentAmount> [Money](#) </paymentAmount> [0..1]

'A fixed payment amount.'

End Choice

</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="PaymentDetail">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:choice minOccurs="0">
          <xsd:element name="adjustablePaymentDate" type="AdjustableDate2"
            deprecated="true" deprecatedReason="This structure doesn't provide the ability to provide
            a payment date relative to another date. The paymentDate element of
            type AdjustableOrRelativeDate should be used instead. In version 5.0 the date structures
            will be rationalized."/>
          <xsd:element name="adjustedPaymentDate" type="xsd:date"
            deprecated="true" deprecatedReason="In version 5.0 the date structures will be rationalized."/>
          <xsd:element name="paymentDate" type="AdjustableOrRelativeDate" />
        </xsd:choice>
        <xsd:choice>
          <xsd:element name="paymentAmount" type="Money" />
          <xsd:sequence>
            <xsd:element name="paymentRule" type="PaymentRule" />
            <xsd:element name="paymentAmount" type="Money" minOccurs="0" />
          </xsd:sequence>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

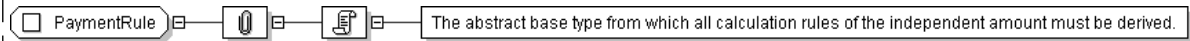
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">PercentageRule</a> (by extension)</li></ul>

Name	PaymentRule
Used by (from the same schema document)	Complex Type <a href="#">PaymentDetail</a>
Abstract	yes
Documentation	The abstract base type from which all calculation rules of the independent amount must be derived.

XML Instance Representation

```
<.../>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentRule" abstract="true"/>
```

[top](#)

Complex Type: **PercentageRule**

Super-types:	<a href="#">PaymentRule</a> < <b>PercentageRule</b> (by extension)
Sub-types:	None

Name	PercentageRule
Abstract	no
Documentation	A type defining a content model for a calculation rule defined as percentage of the notional amount.

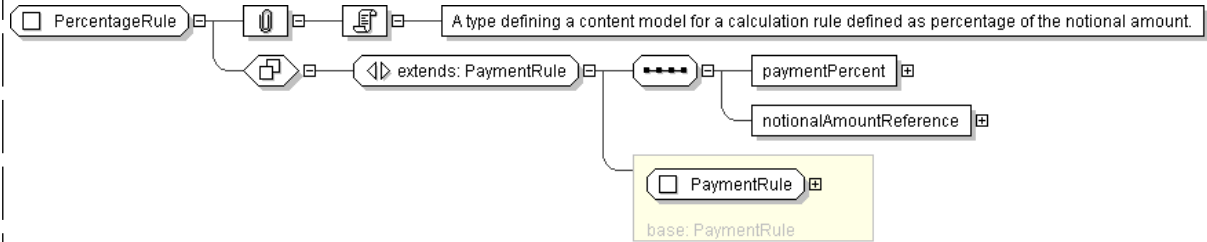
XML Instance Representation

```
<...>
  <paymentPercent> xsd:decimal </paymentPercent> [1]
  'A percentage of the notional amount.'

  <notionalAmountReference> NotionalAmountReference </notionalAmountReference> [1]
  'A reference to the notional amount.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PercentageRule">
  <xsd:complexContent>
    <xsd:extension base=" PaymentRule ">
      <xsd:sequence>
        <xsd:element name="paymentPercent" type=" xsd:decimal "/>
        <xsd:element name="notionalAmountReference" type=" NotionalAmountReference "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **Portfolio**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QueryPortfolio</a> (by extension)</li></ul>

Name	Portfolio
Used by (from the same schema document)	Complex Type <a href="#">DataDocument</a> , Complex Type <a href="#">Portfolio</a>
Abstract	no
Documentation	A type representing an arbitrary grouping of trade references.

XML Instance Representation

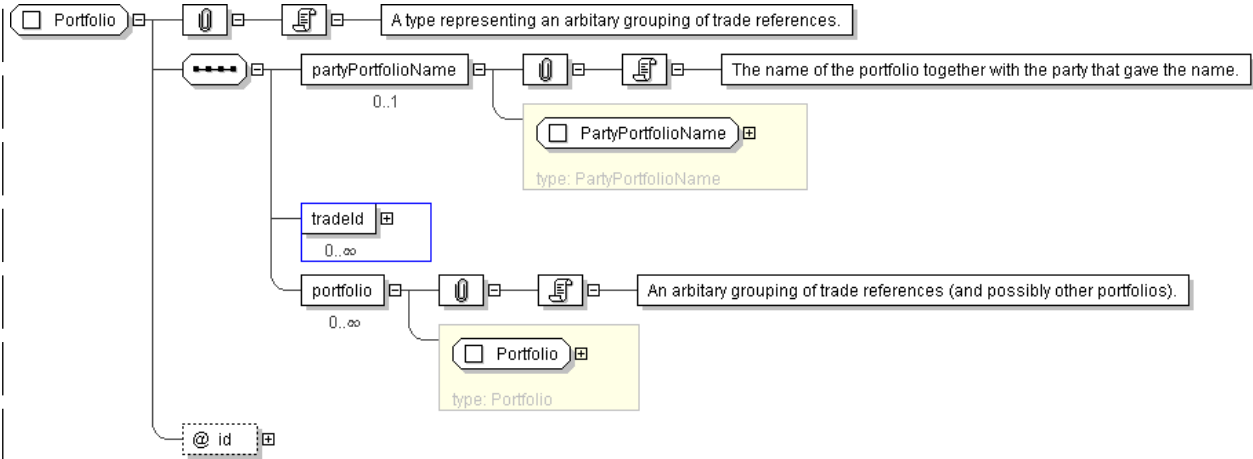
```
<...
id=" xsd:ID [0..1]*">
  <partyPortfolioName> PartyPortfolioName </partyPortfolioName> [0..1]
  'The name of the portfolio together with the party that gave the name.'

  <tradeId> TradeId </tradeId> [0..*]
  <portfolio> Portfolio </portfolio> [0..*]

  'An arbitrary grouping of trade references (and possibly other portfolios).'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Portfolio">
  <xsd:sequence>
    <xsd:element name="partyPortfolioName" type=" PartyPortfolioName " minOccurs="0"/>
    <xsd:element name="tradeId" type=" TradeId " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="portfolio" type=" Portfolio " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

Complex Type: **PortfolioName**

Super-types:	<a href="#">Scheme</a> < <b>PortfolioName</b> (by extension)
Sub-types:	None

Name	PortfolioName
Used by (from the same schema document)	Complex Type <a href="#">PartyPortfolioName</a>
Abstract	no
Documentation	The data type used for portfolio names.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]"  
  portfolioNameScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PortfolioName">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="id" type=" xsd:ID "/>  
      <xsd:attribute name="portfolioNameScheme" type=" xsd:anyURI "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **QueryParameter**

Super-types:	None
Sub-types:	None

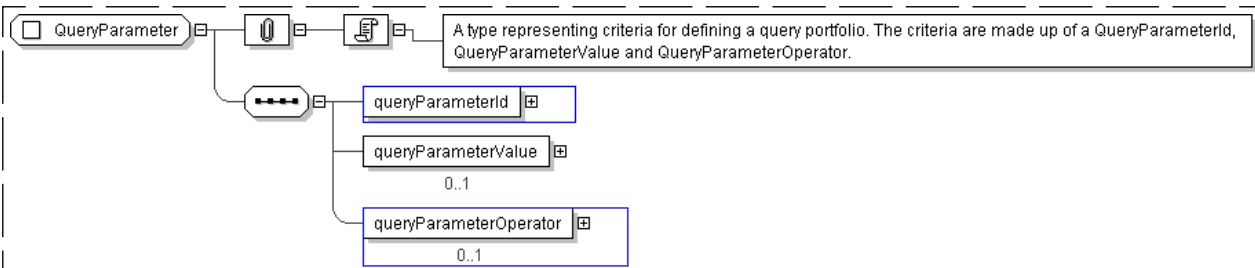
Name	QueryParameter
Used by (from the same schema document)	Complex Type <a href="#">QueryPortfolio</a>
Abstract	no
Documentation	A type representing criteria for defining a query portfolio. The criteria are made up of a QueryParameterId, QueryParameterValue and QueryParameterOperator.

XML Instance Representation

```
<...>  
  <queryParameterId> QueryParameterId </queryParameterId> [1]  
  <queryParameterValue> xsd:normalizedString </queryParameterValue> [0..1]  
  <queryParameterOperator> QueryParameterOperator </queryParameterOperator> [0..1]
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="QueryParameter">
  <xsd:sequence>
    <xsd:element name="queryParameterId" type=" QueryParameterId " />
    <xsd:element name="queryParameterValue" type=" xsd:normalizedString " minOccurs="0"/>
    <xsd:element name="queryParameterOperator" type=" QueryParameterOperator " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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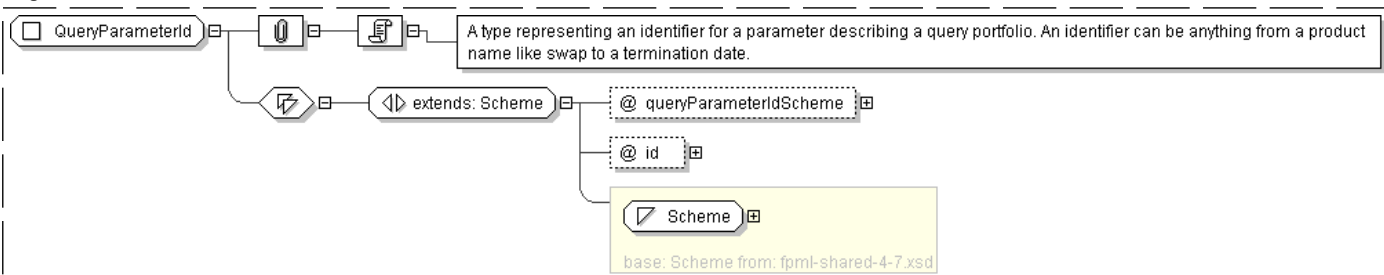
Complex Type: QueryParameterId

Super-types:	<a href="#">Scheme</a> < QueryParameterId (by extension)
Sub-types:	None
Name	QueryParameterId
Used by (from the same schema document)	Complex Type <a href="#">QueryParameter</a>
Abstract	no
Documentation	A type representing an identifier for a parameter describing a query portfolio. An identifier can be anything from a product name like swap to a termination date.

XML Instance Representation

```
<...
queryParameterIdScheme=" xsd:anyURI [1]"
id=" xsd:ID [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QueryParameterId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " />
  </xsd:simpleContent>
</xsd:complexType>
```



```
<xsd:attribute name="queryParameterIdScheme" type=" xsd:anyURI " use="required"/>
<xsd:attribute name="id" type=" xsd:ID "/">
</xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
```

[top](#)

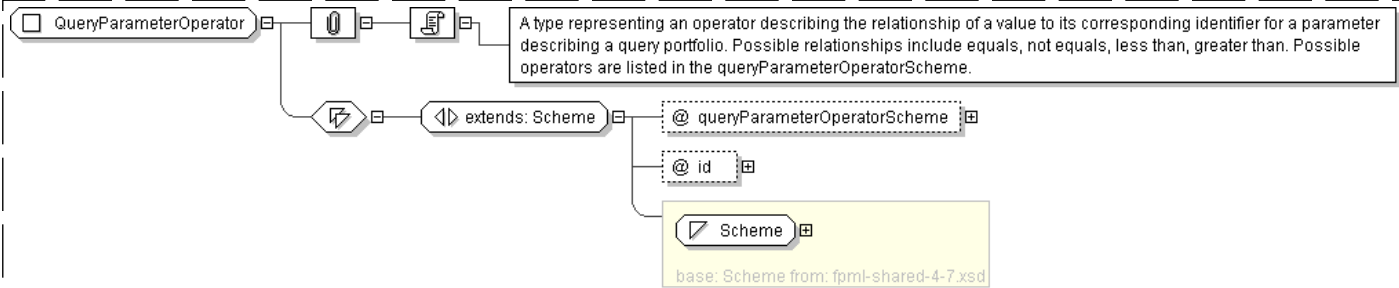
Complex Type: **QueryParameterOperator**

Super-types:	<a href="#">Scheme</a> < <b>QueryParameterOperator</b> (by extension)
Sub-types:	None
Name	QueryParameterOperator
Used by (from the same schema document)	Complex Type <a href="#">QueryParameter</a>
Abstract	no
Documentation	A type representing an operator describing the relationship of a value to its corresponding identifier for a parameter describing a query portfolio. Possible relationships include equals, not equals, less than, greater than. Possible operators are listed in the queryParameterOperatorScheme.

XML Instance Representation

```
<...
queryParameterOperatorScheme=" xsd:anyURI [0..1]"
id=" xsd:ID [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QueryParameterOperator">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="queryParameterOperatorScheme" type=" xsd:anyURI " default="http://www.
        fpml.org/coding-scheme/query-parameter-operator"/>
      <xsd:attribute name="id" type=" xsd:ID "/">
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **QueryPortfolio**

Super-types:	<a href="#">Portfolio</a> < <b>QueryPortfolio</b> (by extension)
Sub-types:	None
Name	QueryPortfolio

Abstract	no
Documentation	A type representing a portfolio obtained by querying the set of trades held in a repository. It contains trades matching the intersection of all criteria specified using one or more queryParameters or trades matching the union of two or more child queryPortfolios.

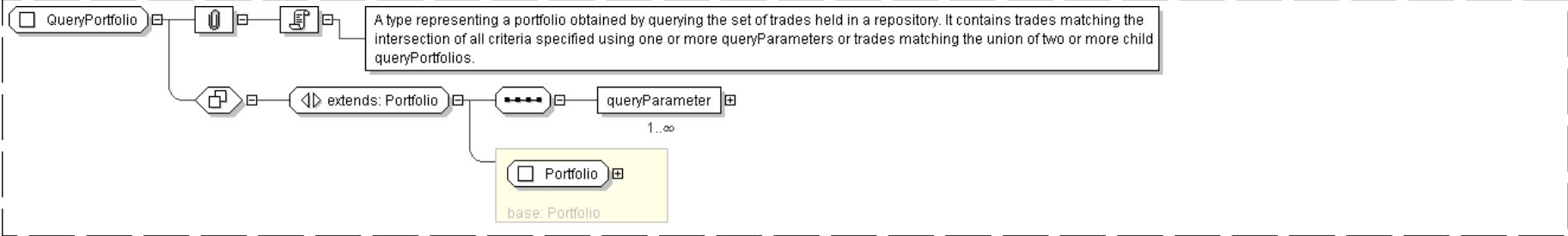
XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <partyPortfolioName> PartyPortfolioName </partyPortfolioName> [0..1]
  'The name of the portfolio together with the party that gave the name.'

  <tradeId> TradeId </tradeId> [0..*]
  <portfolio> Portfolio </portfolio> [0..*]
  'An arbitrary grouping of trade references (and possibly other portfolios).'

  <queryParameter> QueryParameter </queryParameter> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QueryPortfolio">
  <xsd:complexContent>
    <xsd:extension base=" Portfolio "
      <xsd:sequence>
        <xsd:element name="queryParameter" type=" QueryParameter " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: Strategy

Super-types:	<a href="#">Product</a> < <b>Strategy</b> (by extension)
Sub-types:	None

Name	Strategy
Used by (from the same schema document)	Element <a href="#">strategy</a>
Abstract	no
Documentation	A type defining a group of products making up a single trade.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
```

```
<productId> ProductId </productId> [0..*]

'A product reference identifier allocated by a party. FpML does not define the domain
values associated with this element. Note that the domain values for this element are
not strictly an enumerated list.'
```

```
<premiumProductReference> ProductReference </premiumProductReference> [0..1]

'Indicates which product within a strategy represents the premium payment.'
```

```
<product> ... </product> [1..*]

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Strategy">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:element name="premiumProductReference" type=" ProductReference " minOccurs="0"/>
        <xsd:element ref=" product " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: Trade

Super-types:	None
Sub-types:	None
Name	Trade
Used by (from the same schema document)	Complex Type <a href="#">Amendment</a> , Complex Type <a href="#">DataDocument</a> , Model Group <a href="#">TradeOrTradeReference.model</a>
Abstract	no
Documentation	A type defining an FpML trade.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <tradeHeader> TradeHeader </tradeHeader> [1]

  'The information on the trade which is not product specific, e.g. trade date.'
```

```
<product> ... </product> [1]
<otherPartyPayment> Payment </otherPartyPayment> [0..*]

'Other fees or additional payments associated with the trade, e.g. broker commissions,
where one or more of the parties involved are not principal parties involved in the trade.'
```

```
<brokerPartyReference> PartyReference </brokerPartyReference> [0..*]
```

'Identifies that party (or parties) that brokered this trade.'

<calculationAgent> [CalculationAgent](#) </calculationAgent> [0..1]

'The ISDA calculation agent responsible for performing duties as defined in the applicable product definitions.'

<calculationAgentBusinessCenter> [BusinessCenter](#) </calculationAgentBusinessCenter> [0..1]

'The city in which the office through which ISDA Calculation Agent is acting for purposes of the transaction is located The short-form confirm for a trade that is executed under a Sovereign or Asia Pacific Master Confirmation Agreement ( MCA ), does not need to specify the Calculation Agent. However, the confirm does need to specify the Calculation Agent City. This is due to the fact that the MCA sets the value for Calculation Agent but does not set the value for Calculation Agent City.'

<determiningParty> [PartyReference](#) </determiningParty> [0..2]

'The party referenced is the ISDA Determination Party that specified in the related Confirmation as Determination Party.'

<hedgingParty> [PartyReference](#) </hedgingParty> [0..2]

'The party referenced is the ISDA Hedging Party that specified in the related Confirmation as Hedging, or if no Hedging Party is specified, either party to the Transaction.'

<collateral> [Collateral](#) </collateral> [0..1]

'Defines collateral obligations of a Party'

<documentation> [Documentation](#) </documentation> [0..1]

'Defines the definitions that govern the document and should include the year and type of definitions referenced, along with any relevant documentation (such as master agreement) and the date it was signed.'

<governingLaw> [GoverningLaw](#) </governingLaw> [0..1]

'Identification of the law governing the transaction.'

<allocations> [Allocations](#) </allocations> [0..1]

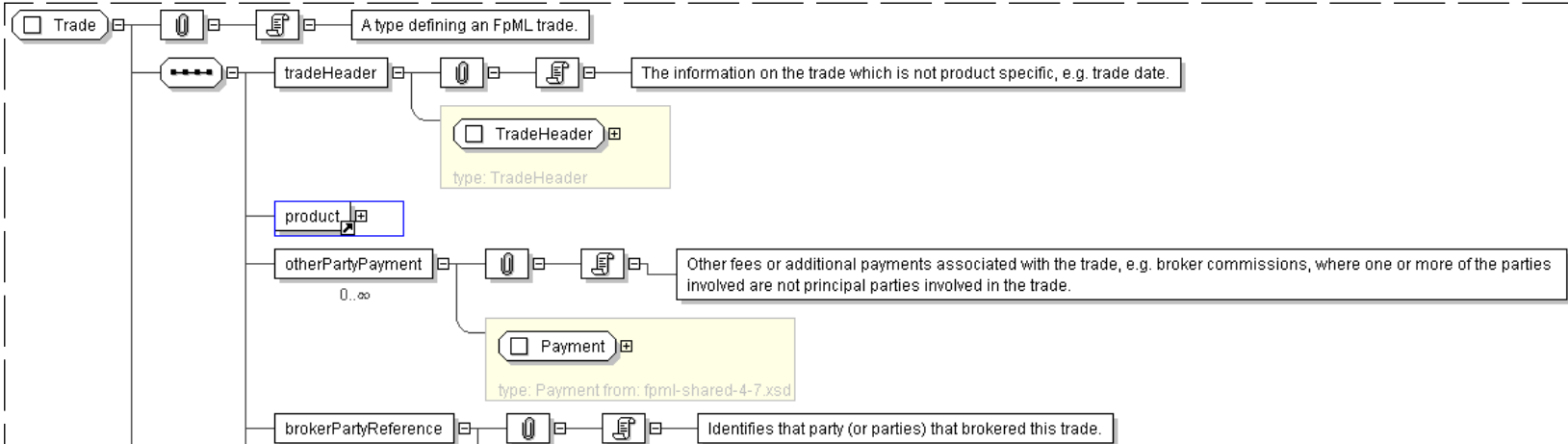
'"Short-form" representation of allocations in which the key block economics are stated once within the trade structure, and the allocation data is contained in this allocations structure.'

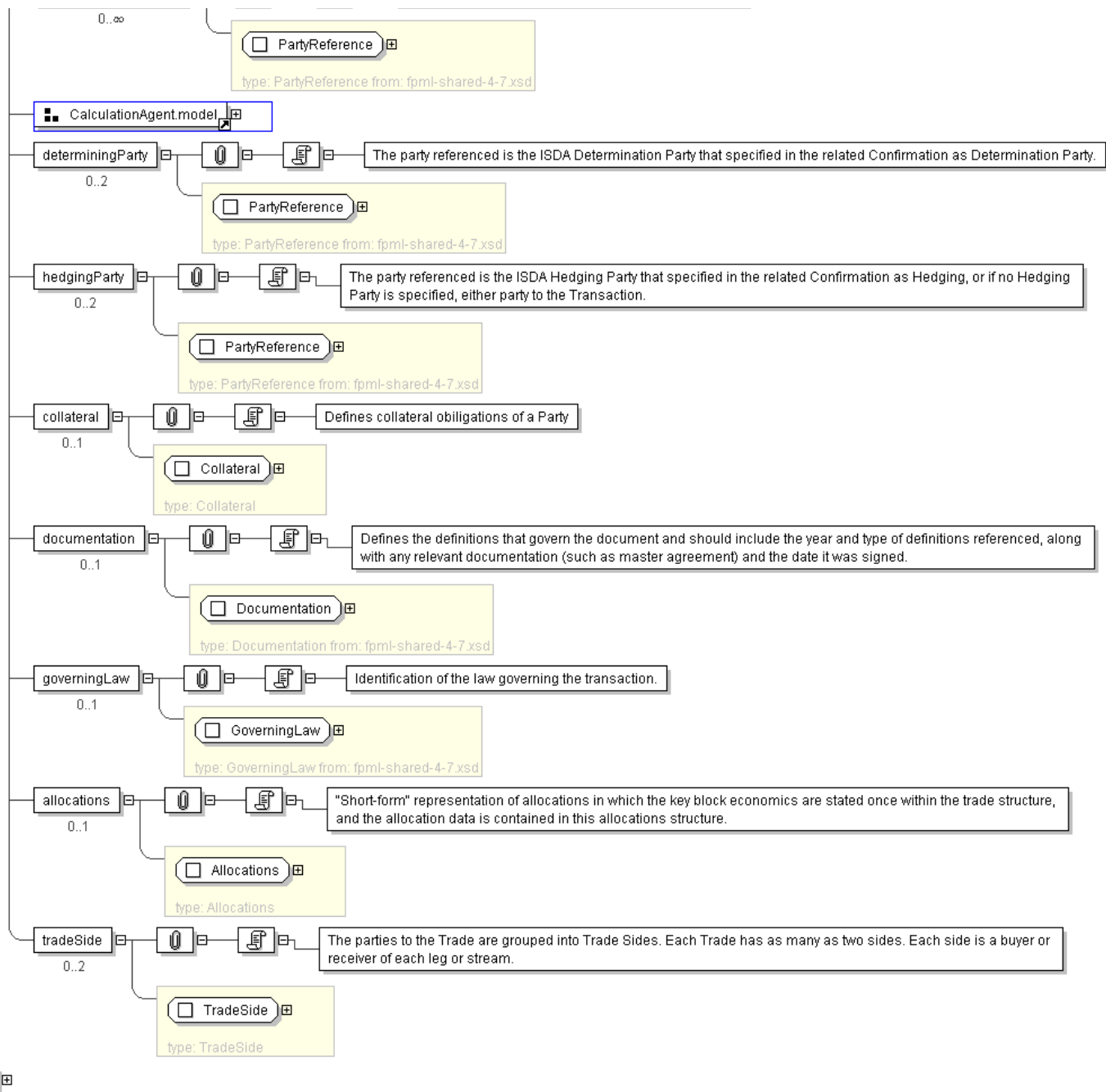
<tradeSide> [TradeSide](#) </tradeSide> [0..2]

'The parties to the Trade are grouped into Trade Sides. Each Trade has as many as two sides. Each side is a buyer or receiver of each leg or stream.'

</...>

# Diagram





## Schema Component Representation

```

<xsd:complexType name="Trade">
  <xsd:sequence>
    <xsd:element name="tradeHeader" type="TradeHeader" />
    <xsd:element ref="product" />
    <xsd:element name="otherPartyPayment" type="Payment" minOccurs="0" maxOccurs="unbounded" />
    <xsd:element name="brokerPartyReference" type="PartyReference" />
  
```

```
minOccurs="0" maxOccurs="unbounded"/>
<xsd:group ref=" CalculationAgent.model " />
<xsd:element name="determiningParty" type=" PartyReference " minOccurs="0" maxOccurs="2" />
<xsd:element name="hedgingParty" type=" PartyReference " minOccurs="0" maxOccurs="2" />
<xsd:element name="collateral" type=" Collateral " minOccurs="0" />
<xsd:element name="documentation" type=" Documentation " minOccurs="0" />
<xsd:element name="governingLaw" type=" GoverningLaw " minOccurs="0" />
<xsd:element name="allocations" type=" Allocations " minOccurs="0" />
<xsd:element name="tradeSide" type=" TradeSide " minOccurs="0" maxOccurs="2" />
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **TradeDifference**

Super-types:	None
Sub-types:	None

Name	TradeDifference
Used by (from the same schema document)	Complex Type <a href="#">BestFitTrade</a>
Abstract	no
Documentation	A type used to record the details of a difference between two business objects/

XML Instance Representation

```
<...>
<differenceType> DifferenceTypeEnum </differenceType> [1]
  'The type of difference that exists.'

<differenceSeverity> DifferenceSeverityEnum </differenceSeverity> [1]
  'An indication of the severity of the difference.'

<element> xsd:string </element> [1]
  'The name of the element affected.'

<basePath> xsd:string </basePath> [0..1]
  'XPath to the element in the base object.'

<baseValue> xsd:string </baseValue> [0..1]
  'The value of the element in the base object.'

<otherPath> xsd:string </otherPath> [0..1]
  'XPath to the element in the other object.'

<otherValue> xsd:string </otherValue> [0..1]
  'Value of the element in the other trade.'

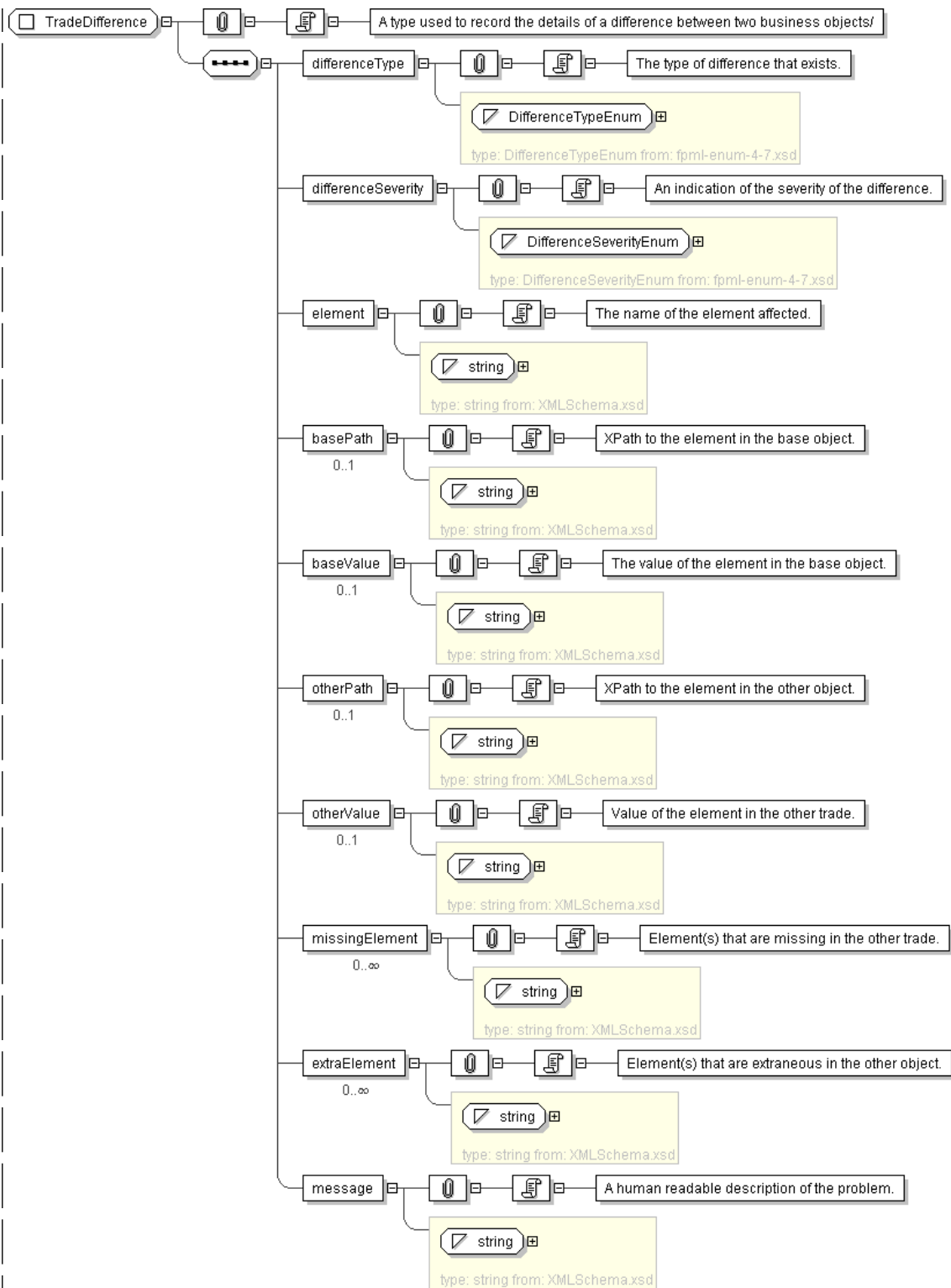
<missingElement> xsd:string </missingElement> [0..*]
  'Element(s) that are missing in the other trade.'

<extraElement> xsd:string </extraElement> [0..*]
  'Element(s) that are extraneous in the other object.'

<message> xsd:string </message> [1]
  'A human readable description of the problem.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeDifference">
  <xsd:sequence>
    <xsd:element name="differenceType" type=" DifferenceTypeEnum " />
    <xsd:element name="differenceSeverity" type=" DifferenceSeverityEnum " />
    <xsd:element name="element" type=" xsd:string " />
    <xsd:element name="basePath" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="baseValue" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="otherPath" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="otherValue" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="missingElement" type=" xsd:string " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="extraElement" type=" xsd:string " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="message" type=" xsd:string " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: TradeHeader

Super-types:	None
Sub-types:	None
Name	TradeHeader
Used by (from the same schema document)	Complex Type <a href="#">Trade</a>
Abstract	no
Documentation	A type defining trade related information which is not product specific.

XML Instance Representation

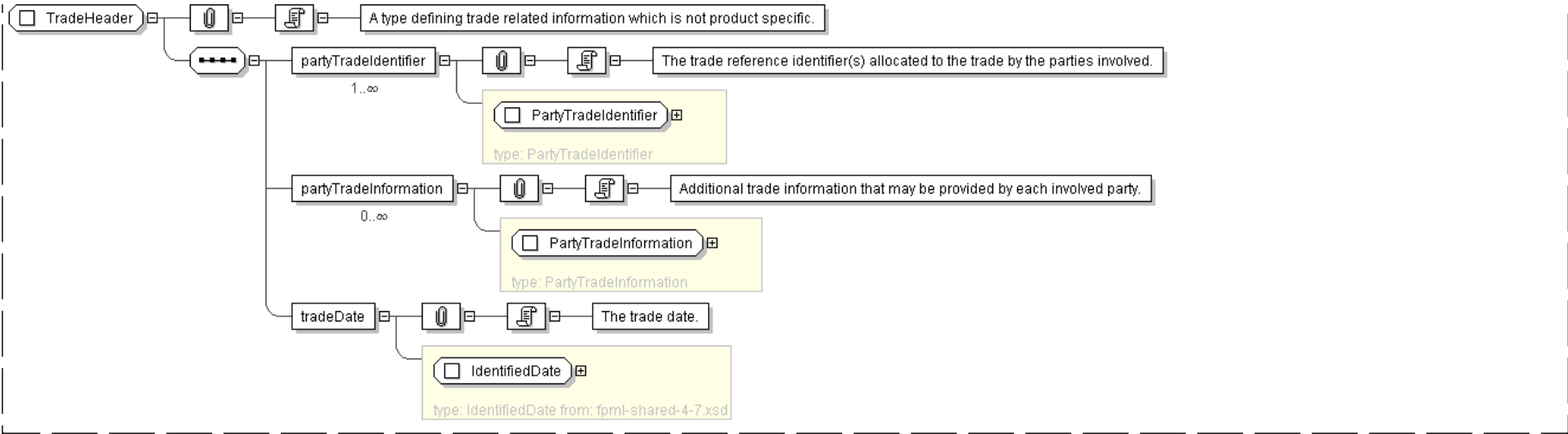
```
<...>
  <partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1..*]
  'The trade reference identifier(s) allocated to the trade by the parties involved.'

  <partyTradeInformation> PartyTradeInformation </partyTradeInformation> [0..*]
  'Additional trade information that may be provided by each involved party.'

  <tradeDate> IdentifiedDate </tradeDate> [1]
  'The trade date.'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="TradeHeader">
  <xsd:sequence>
    <xsd:element name="partyTradeIdentifier" type=" PartyTradeIdentifier " maxOccurs="unbounded" />
    <xsd:element name="partyTradeInformation" type=" PartyTradeInformation "
      minOccurs="0" maxOccurs="unbounded" />
    <xsd:element name="tradeDate" type=" IdentifiedDate " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Tradeld**

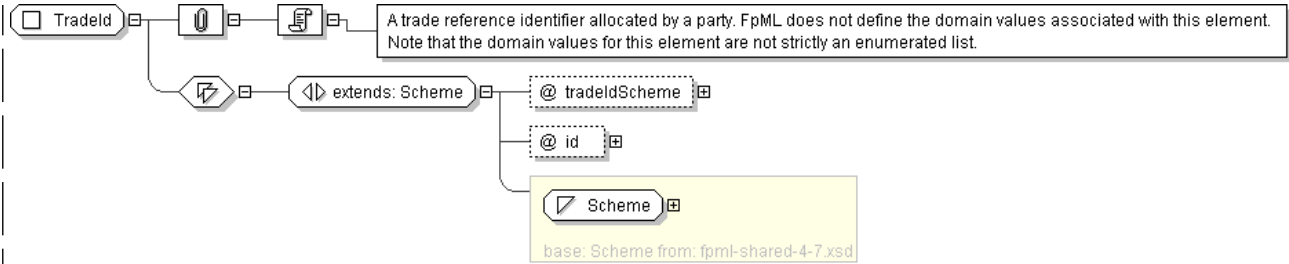
Super-types:	<a href="#">Scheme</a> < <b>Tradeld</b> (by extension)
Sub-types:	None

Name	Tradeld
Used by (from the same schema document)	Complex Type <a href="#">Portfolio</a> , Complex Type <a href="#">Tradeldentifier</a> , Complex Type <a href="#">VersionedTradeld</a>
Abstract	no
Documentation	A trade reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.

XML Instance Representation

```
<...
tradeIdScheme=" xsd:anyURI [1]"
id=" xsd:ID [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="tradeIdScheme" type=" xsd:anyURI " use="required"/>
      <xsd:attribute name="id" type=" xsd:ID " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeIdentifier

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>PartyTradeIdentifier (by extension)<ul style="list-style-type: none"><li>AllocationTradeIdentifier (by extension)</li><li>BlockTradeIdentifier (by extension)</li></ul></li></ul>

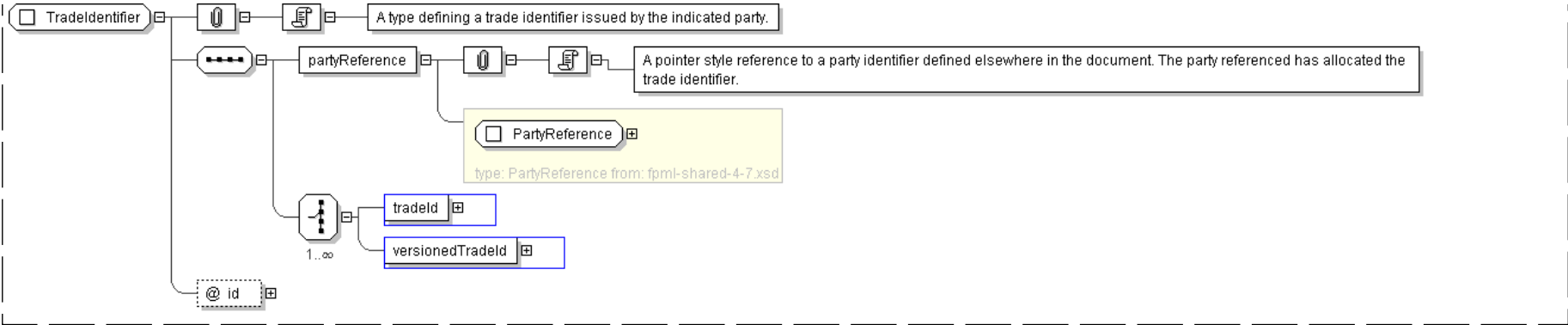
Name	TradeIdentifier
Used by (from the same schema document)	Complex Type BestFitTrade
Abstract	no
Documentation	A type defining a trade identifier issued by the indicated party.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <partyReference> PartyReference </partyReference> [1]
  'A pointer style reference to a party identifier defined elsewhere in the document. The
  party referenced has allocated the trade identifier.'

Start Choice [1..*]
  <tradeId> TradeId </tradeId> [1]
  <versionedTradeId> VersionedTradeId </versionedTradeId> [1]
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeIdentifier">
  <xsd:sequence>
    <xsd:element name="partyReference" type=" PartyReference " />
    <xsd:choice maxOccurs="unbounded">
      <xsd:element name="tradeId" type=" TradeId " />
      <xsd:element name="versionedTradeId" type=" VersionedTradeId " />
    </xsd:choice>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: TradeSide

Super-types:	None
Sub-types:	None
Name	TradeSide
Used by (from the same schema document)	Complex Type <a href="#">Trade</a>
Abstract	no
Documentation	The parties to the trade form into sides. Each side has defined roles in the lifecycle of the trade fulfilled by parties. Each party role is given in the likely order they would be filled during the lifecycle of a trade.

XML Instance Representation

```
<...
id=" xsd:ID [1]">
  <orderer> PartyRole </orderer> [0..1]
  'The Party placing the order. This could be a fund manager acting on behalf of a client, or
  a hedge fund acting on it\'s own behalf. This is the role with the investment discretion.'

  <introducer> PartyRole </introducer> [0..1]
  'Party that can relay an order directly to the trading floor at a firm. This is potentially
  a different firm, but may be the same as that taking the order. In effect the introducer is
  the first dealer to take the order. The reason an introducing dealer may forward a trade
  is sometime because it doesn\'t have the capacity to execute effectively but does have
  the relationship with the Orderer. Introducing Party is an industry standard term. This
  is semantically equivalent to the FIX and ISO20022 Introducing Firm.'

  <executor> PartyRole </executor> [0..1]
  'The Party executing or striking the trade. Executing Party is an industry standard term.
  This is semantically equivalent to the FIX and ISO20022 Executing Firm or Trader.'

  <confirmer> PartyRole </confirmer> [0..1]
  'The party that undertakes the confirmation process for this Trade Side. The
```

confirmer essentially manages the matching and affirmation of trades. This is often the creditor or is increasingly outsourced to service providers such as Swapswire.'

<creditor> [PartyRole](#) </creditor> [1]

'The party whose name appears on the contract as being responsible for credit of the trade. This is the party in the Trade Side the credit risk is against. For example if a hedge fund was to trade in the name of it's prime broker, then the prime broker would be the creditor.'

<calculator> [PartyRole](#) </calculator> [0..1]

'The calculator is the Party that calculates, negotiates, and agrees the values to be paid at each payment date.'

<settlement> [PartyRole](#) </settlement> [0..1]

'The Settler is the party that makes the payments. Increasingly this is a service that can be externalized from the other roles. An example of a settlement service provide is SwapClear.'

<beneficiary> [PartyRole](#) </beneficiary> [0..1]

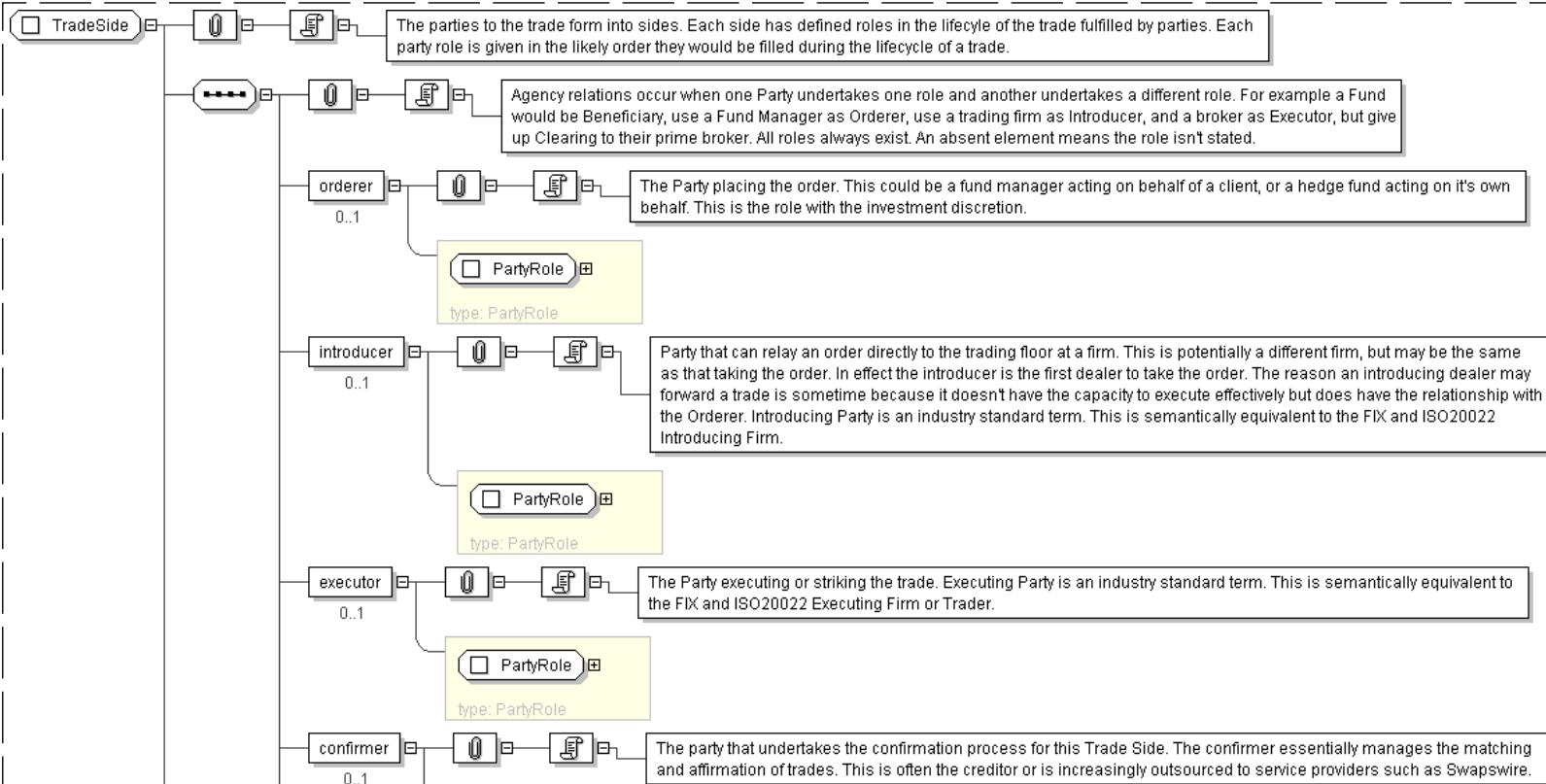
'The party that suffers the economic effect of the trade. This is usually referred to as the primary Principal in FIX and ISO20022 - which is slightly confusing in that there are potentially many Principial/Agency relationships. The beneficiary may be distinct from the creditor - an example is a Hedge Fund trading in the name of it's Prime Broker.'

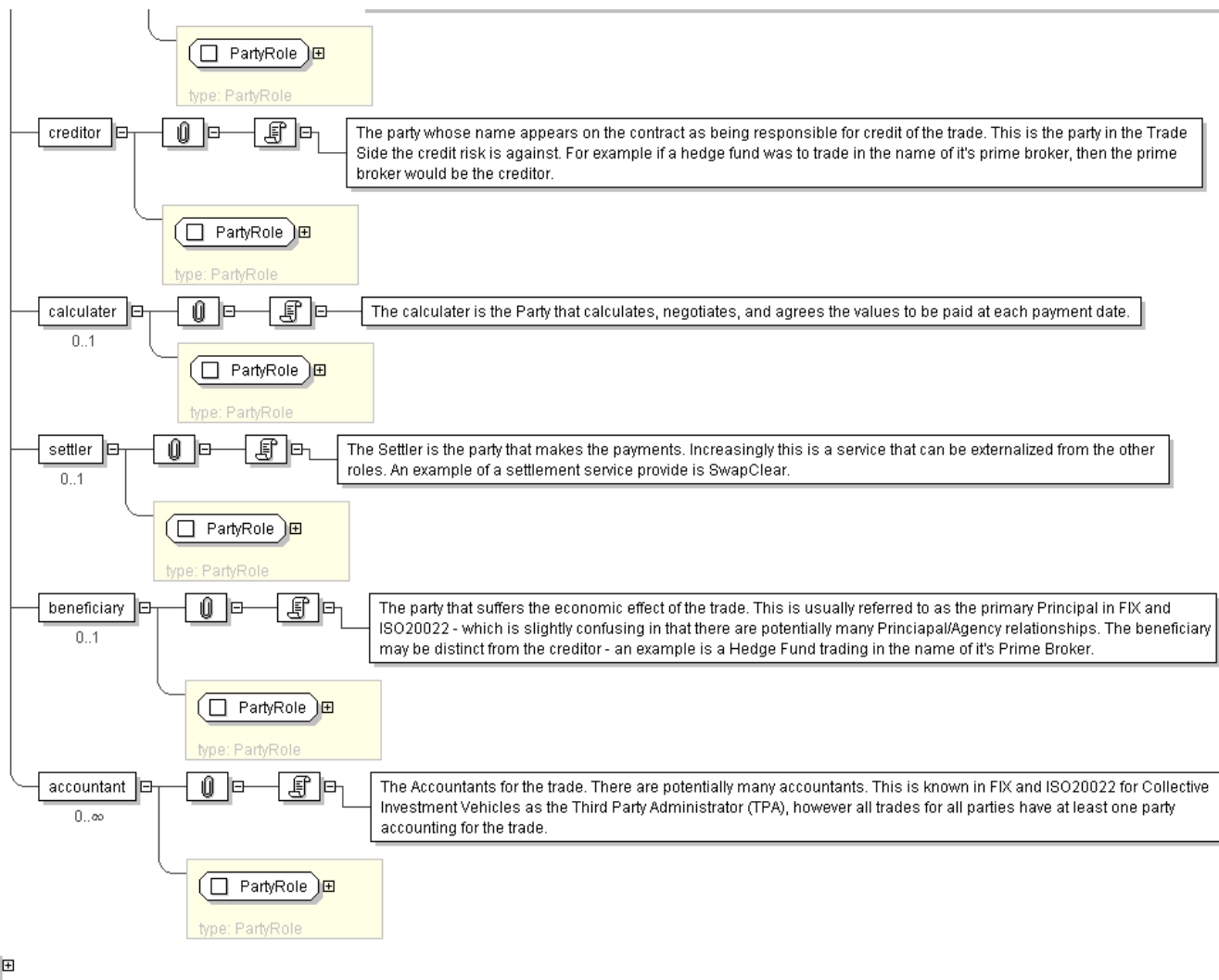
<accountant> [PartyRole](#) </accountant> [0..\*]

'The Accountants for the trade. There are potentially many accountants. This is known in FIX and ISO20022 for Collective Investment Vehicles as the Third Party Administrator (TPA), however all trades for all parties have at least one party accounting for the trade.'

</...>

## Diagram





#### Schema Component Representation

```

<xsd:complexType name="TradeSide">
  <xsd:sequence>
    <xsd:element name="orderer" type="PartyRole" minOccurs="0"/>
    <xsd:element name="introducer" type="PartyRole" minOccurs="0"/>
    <xsd:element name="executor" type="PartyRole" minOccurs="0"/>
    <xsd:element name="confirmer" type="PartyRole" minOccurs="0"/>
    <xsd:element name="creditor" type="PartyRole" minOccurs="0"/>
    <xsd:element name="calculator" type="PartyRole" minOccurs="0"/>
    <xsd:element name="settler" type="PartyRole" minOccurs="0"/>
    <xsd:element name="beneficiary" type="PartyRole" minOccurs="0"/>
    <xsd:element name="accountant" type="PartyRole" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" use="required"/>
</xsd:complexType>

```

Complex Type: **Trader**

Super-types:	<a href="#">Scheme</a> < <b>Trader</b> (by extension)
Sub-types:	None

Name	Trader
Used by (from the same schema document)	Complex Type <a href="#">PartyTradeInformation</a>
Abstract	no

XML Instance Representation

```
<...  
  traderScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Trader">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="traderScheme" type=" xsd:anyURI " use="optional"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **Validation**

Super-types:	<a href="#">Scheme</a> < <b>Validation</b> (by extension)
Sub-types:	None

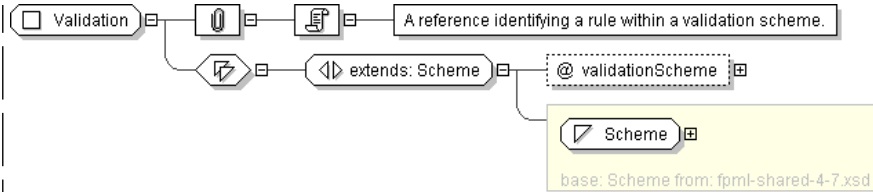
Name	Validation
Used by (from the same schema document)	Model Group <a href="#">Validation.model</a>
Abstract	no
Documentation	A reference identifying a rule within a validation scheme.

XML Instance Representation

```
<...  
  validationScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Validation">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="validationScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type: **VersionedContractId**

Super-types:	None
Sub-types:	None

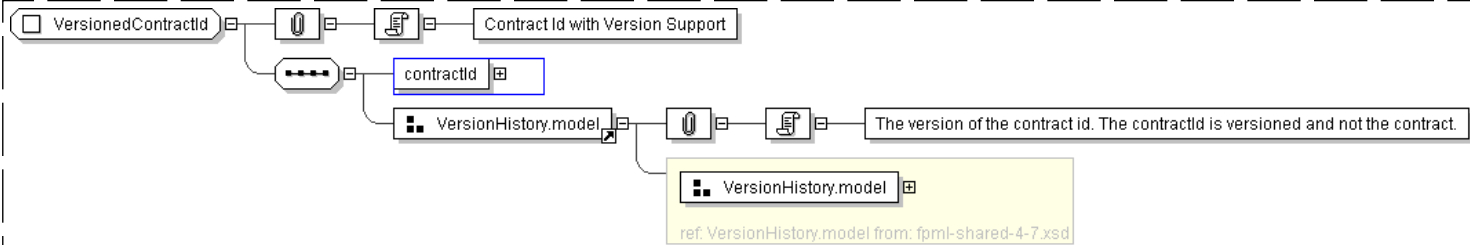
Name	VersionedContractId
Used by (from the same schema document)	Complex Type <a href="#">ContractIdentifier</a>
Abstract	no
Documentation	Contract Id with Version Support

XML Instance Representation

```
<...>
  <contractId> ContractId </contractId> [1]
  <version> xsd:nonNegativeInteger </version> [1]
  'The version number'

  <effectiveDate> IdentifiedDate </effectiveDate> [0..1]
  'Optionally it is possible to specify a version effective date when a versionId is supplied.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VersionedContractId">
  <xsd:sequence>
    <xsd:element name="contractId" type=" ContractId " />
    <xsd:group ref=" VersionHistory.model " />
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **VersionedTradeId**

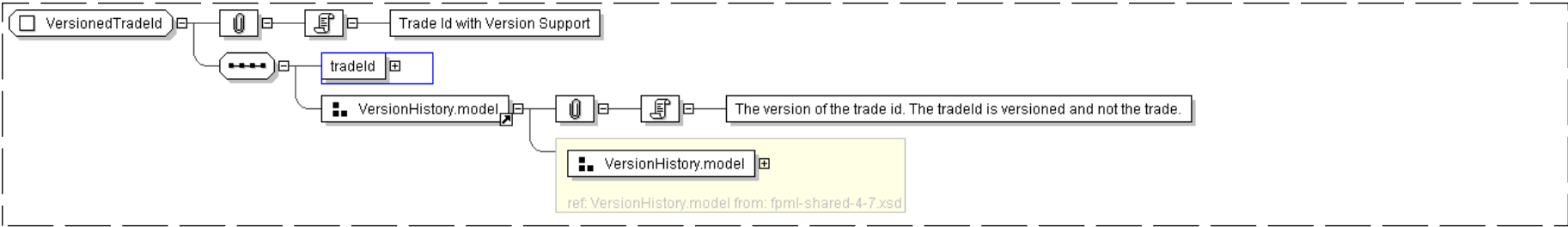
Super-types:	None
Sub-types:	None
Name	VersionedTradeId
Used by (from the same schema document)	Complex Type <a href="#">TradeIdentifier</a>
Abstract	no
Documentation	Trade Id with Version Support

XML Instance Representation

```
<...>
  <tradeId> TradeId </tradeId> [1]
  <version> xsd:nonNegativeInteger </version> [1]
  'The version number'

  <effectiveDate> IdentifiedDate </effectiveDate> [0..1]
  'Optionally it is possible to specify a version effective date when a versionId is supplied.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VersionedTradeId">
  <xsd:sequence>
    <xsd:element name="tradeId" type="TradeId" />
    <xsd:group ref="VersionHistory.model" />
  </xsd:sequence>
</xsd:complexType>
```

Model Group: **AccountReferenceOrPartyReference.model**

Name	AccountReferenceOrPartyReference.model
Used by (from the same schema document)	Complex Type <a href="#">Allocation</a>

XML Instance Representation

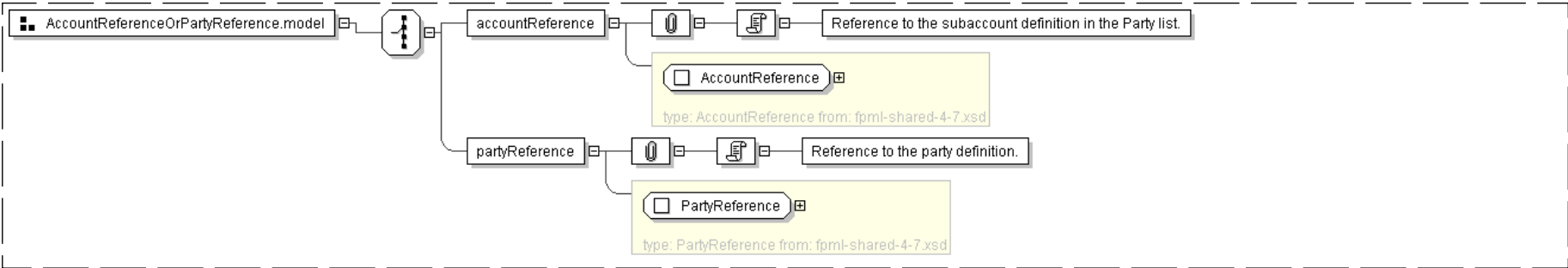
```
Start Choice [1]
  <accountReference> AccountReference </accountReference> [1]
  'Reference to the subaccount definition in the Party list.'

  <partyReference> PartyReference </partyReference> [1]
  'Reference to the party definition.'
```



End Choice

Diagram



Schema Component Representation

```
<xsd:group name="AccountReferenceOrPartyReference.model">
  <xsd:choice>
    <xsd:element name="accountReference" type=" AccountReference " />
    <xsd:element name="partyReference" type=" PartyReference " />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: AllocationContent.model

Name	AllocationContent.model
Used by (from the same schema document)	Complex Type <a href="#">Allocation</a>

XML Instance Representation

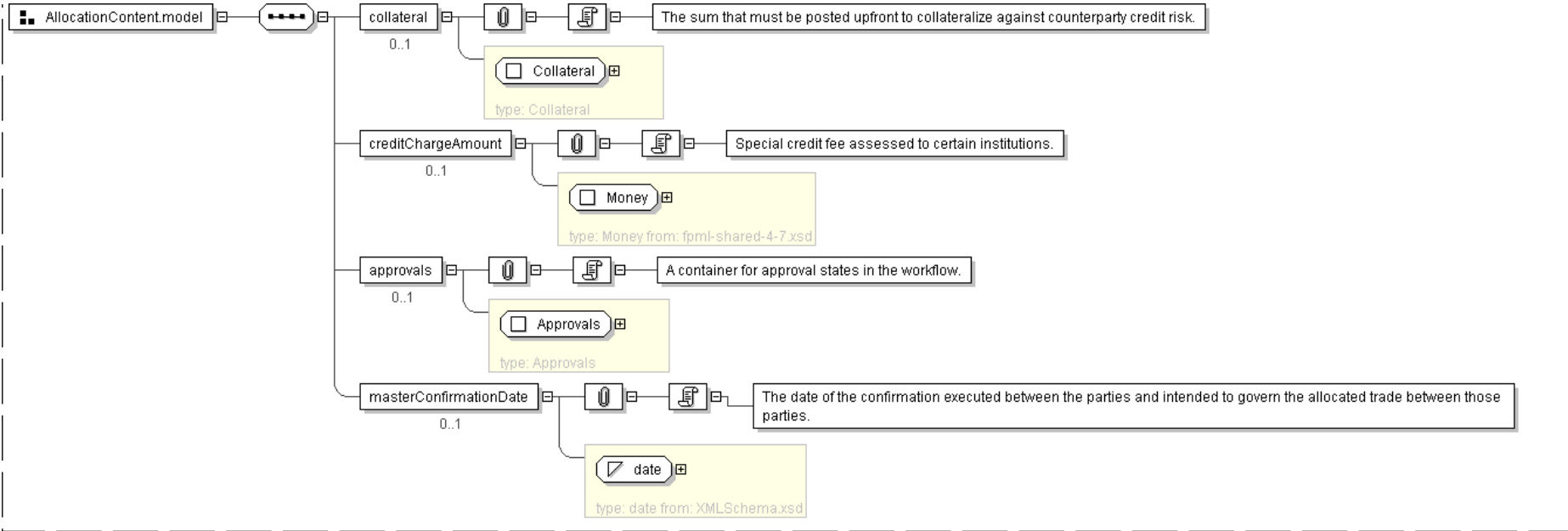
```
<collateral> Collateral </collateral> [0..1]
'The sum that must be posted upfront to collateralize against counterparty credit risk.'

<creditChargeAmount> Money </creditChargeAmount> [0..1]
'Special credit fee assessed to certain institutions.'

<approvals> Approvals </approvals> [0..1]
'A container for approval states in the workflow.'

<masterConfirmationDate> xsd:date </masterConfirmationDate> [0..1]
'The date of the confirmation executed between the parties and intended to govern the allocated trade between those parties.'
```

Diagram



Schema Component Representation

```
<xsd:group name="AllocationContent.model">
  <xsd:sequence>
    <xsd:element name="collateral" type="Collateral" minOccurs="0"/>
    <xsd:element name="creditChargeAmount" type="Money" minOccurs="0"/>
    <xsd:element name="approvals" type="Approvals" minOccurs="0"/>
    <xsd:element name="masterConfirmationDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **AmendmentDetails.model**

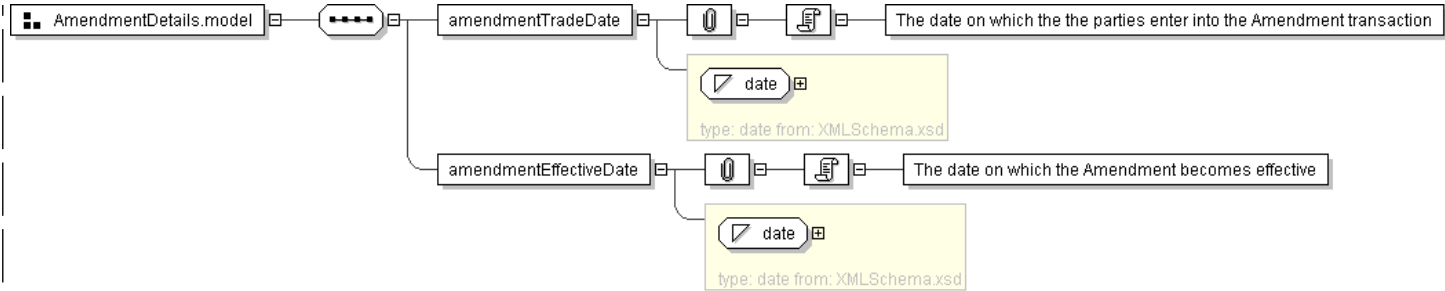
Name	AmendmentDetails.model
Used by (from the same schema document)	Complex Type <a href="#">Amendment</a>

XML Instance Representation

```
<amendmentTradeDate> xsd:date </amendmentTradeDate> [1]
'The date on which the the parties enter into the Amendment transaction'

<amendmentEffectiveDate> xsd:date </amendmentEffectiveDate> [1]
'The date on which the Amendment becomes effective'
```

Diagram



Schema Component Representation

```
<xsd:group name="AmendmentDetails.model">
  <xsd:sequence>
    <xsd:element name="amendmentTradeDate" type="xsd:date" />
    <xsd:element name="amendmentEffectiveDate" type="xsd:date" />
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: CalculationAgent.model

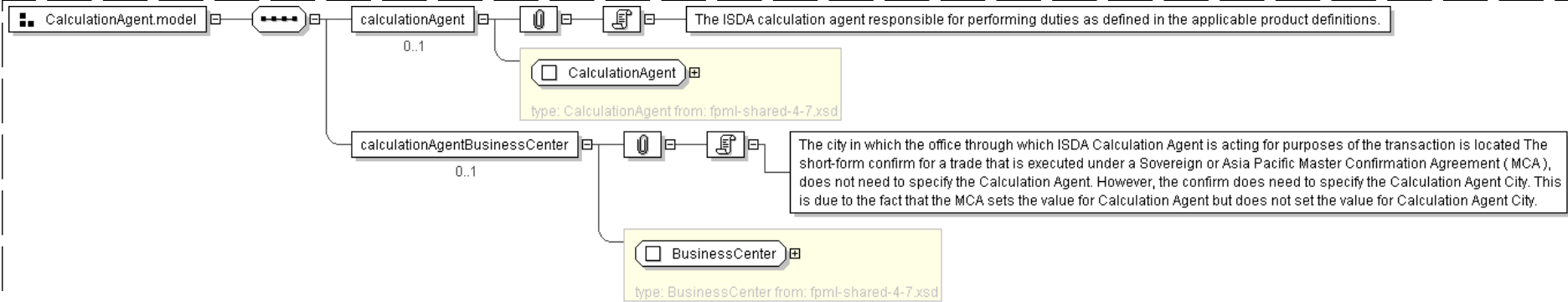
Name	CalculationAgent.model
Used by (from the same schema document)	Complex Type <a href="#">Contract</a> , Complex Type <a href="#">Trade</a>

XML Instance Representation

```
<calculationAgent> CalculationAgent </calculationAgent> [0..1]
'The ISDA calculation agent responsible for performing duties as defined in the
applicable product definitions.'
```

```
<calculationAgentBusinessCenter> BusinessCenter </calculationAgentBusinessCenter> [0..1]
'The city in which the office through which ISDA Calculation Agent is acting for purposes
of the transaction is located The short-form confirm for a trade that is executed under
a Sovereign or Asia Pacific Master Confirmation Agreement ( MCA ), does not need to specify
the Calculation Agent. However, the confirm does need to specify the Calculation Agent
City. This is due to the fact that the MCA sets the value for Calculation Agent but does
not set the value for Calculation Agent City.'
```

Diagram



Schema Component Representation

```
<xsd:group name="CalculationAgent.model">
```

```
<xsd:sequence>
  <xsd:element name="calculationAgent" type=" CalculationAgent " minOccurs="0"/>
  <xsd:element name="calculationAgentBusinessCenter" type=" BusinessCenter " minOccurs="0"/>
</xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **ContractNovationDetails.model**

Name	ContractNovationDetails.model
Used by (from the same schema document)	Complex Type <a href="#">ContractNovation</a>
Documentation	Model group with Contract Novation element content.

XML Instance Representation

```
Start Choice [1]
Start Choice [1]
'Choice between identification and representation of the new contract.'
```

Party means a party which consents to a Transferor's transfer by novation and the acceptance thereof by the Transferee of all of the Transferor's rights, liabilities, duties and obligations with respect to such Remaining Party under and with respect of the Novated Amount of a transaction. In a four-way novation the party referenced is Transferor 2 per the ISDA definition and acts in the role of a Transferor. Transferor 2 transfers by novation to Transferee 2 all of its rights, liabilities, duties and obligations with respect to Transferor 1. ISDA 2004 Novation Term: Remaining Party (three-way novation) or Transferor 2 (four-way novation).'

<otherRemainingParty> [PartyReference](#) </otherRemainingParty> [0..1]

'A pointer style reference to a party identifier defined elsewhere in the document. This element is not applicable in a three-way novation and should be omitted. In a four-way novation the party referenced is Transferee 2. Transferee 2 means a party which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 2. ISDA 2004 Novation Term: Transferee 2 (four-way novation).'

<novationDate> [xsd:date](#) </novationDate> [1]

'Specifies the date that one party's legal obligations with regard to a trade are transferred to another party. It corresponds to the Novation Date section of the 2004 ISDA Novation Definitions, section 1.16.'

<novationContractDate> [xsd:date](#) </novationContractDate> [0..1]

'Specifies the date the parties agree to assign or novate a Contract. If this element is not specified, the novationContractDate will be deemed to be the novationDate. It corresponds to the Novation Trade Date section of the 2004 ISDA Novation Definitions, section 1.17.'

Start [Choice](#) [1]

'Choice for expressing the novated amount as either a money amount, number of options, or number of units, according the the financial product which is being novated.'

<novatedAmount> [Money](#) </novatedAmount> [1]

'The amount which represents the portion of the Old Contract being novated.'

<novatedNumberOfOptions> [xsd:decimal](#) </novatedNumberOfOptions> [1]

'The number of options which represent the portion of the Old Contract being novated.'

<novatedNumberOfUnits> [xsd:decimal](#) </novatedNumberOfUnits> [1]

'The number of options which represent the portion of the Old Contract being novated.'

End Choice

<fullFirstCalculationPeriod> [xsd:boolean](#) </fullFirstCalculationPeriod> [0..1]

'This element corresponds to the applicability of the Full First Calculation Period as defined in the 2004 ISDA Novation Definitions, section 1.20.'

<firstPeriodStartDate> [FirstPeriodStartDate](#) </firstPeriodStartDate> [0..2]

'Element that is used to be able to make sense of the "new transaction" without requiring reference back to the "old transaction". In the case of interest rate products there are potentially 2 "first period start dates" to reference - one with respect to each party to the new transaction. For Credit Default Swaps there is just the one with respect to the party that is the fixed rate payer.'

<nonReliance> [Empty](#) </nonReliance> [0..1]

'This element corresponds to the non-Reliance section in the 2004 ISDA Novation Definitions, section 2.1 (c) (i). The element appears in the instance document when non-Reliance is applicable.'

<creditDerivativesNotices> [CreditDerivativesNotices](#) </creditDerivativesNotices> [0..1]

'This element should be specified if one or more of either a Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party. The type of notice or notices that have been delivered should be indicated by setting the relevant boolean element value(s) to true. The absence of the element means that no Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party.'

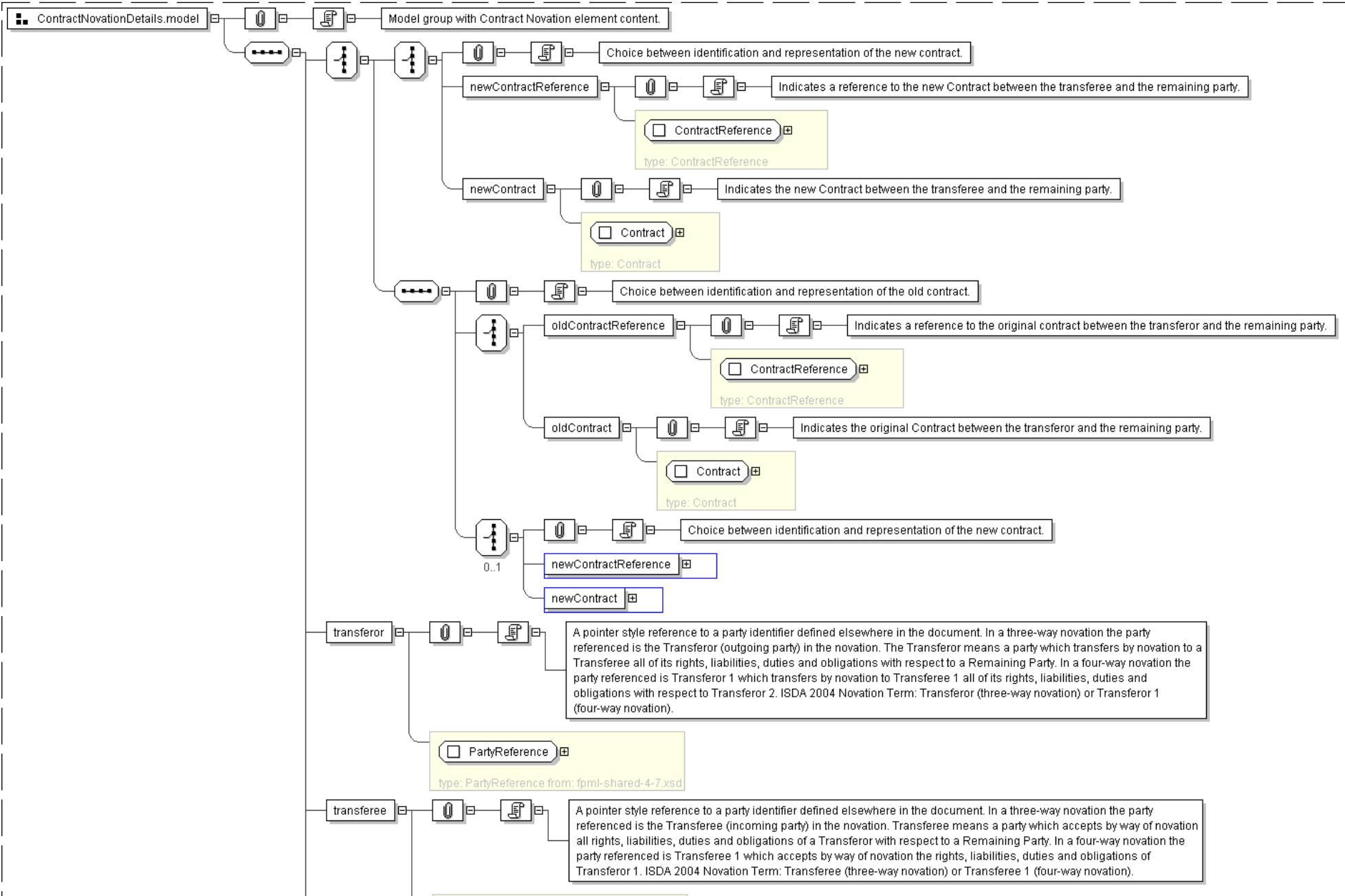
```

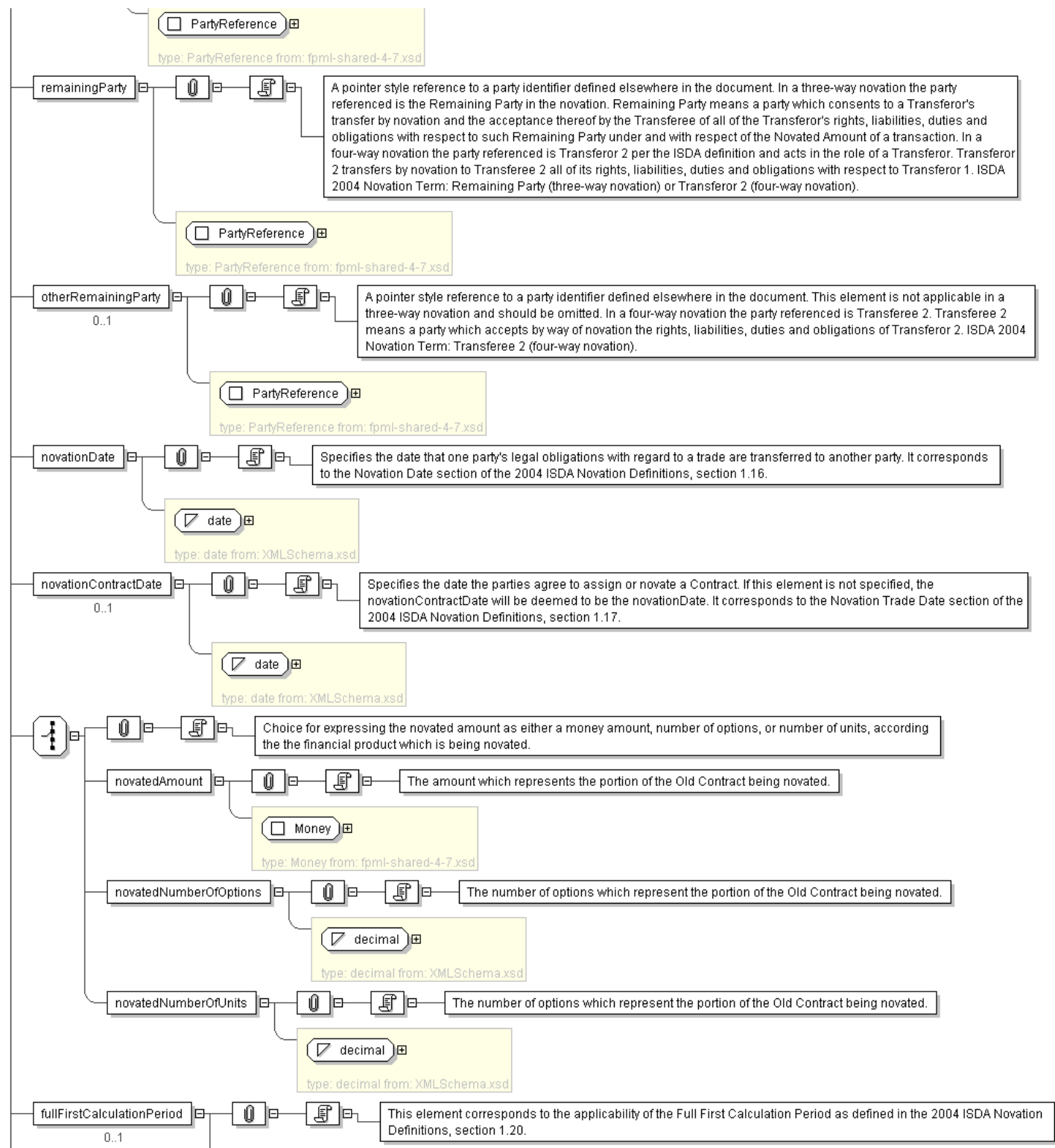
<contractualDefinitions> ContractualDefinitions </contractualDefinitions> [0..*]
'The definitions (such as those published by ISDA) that will define the terms of the
novation transaction.'

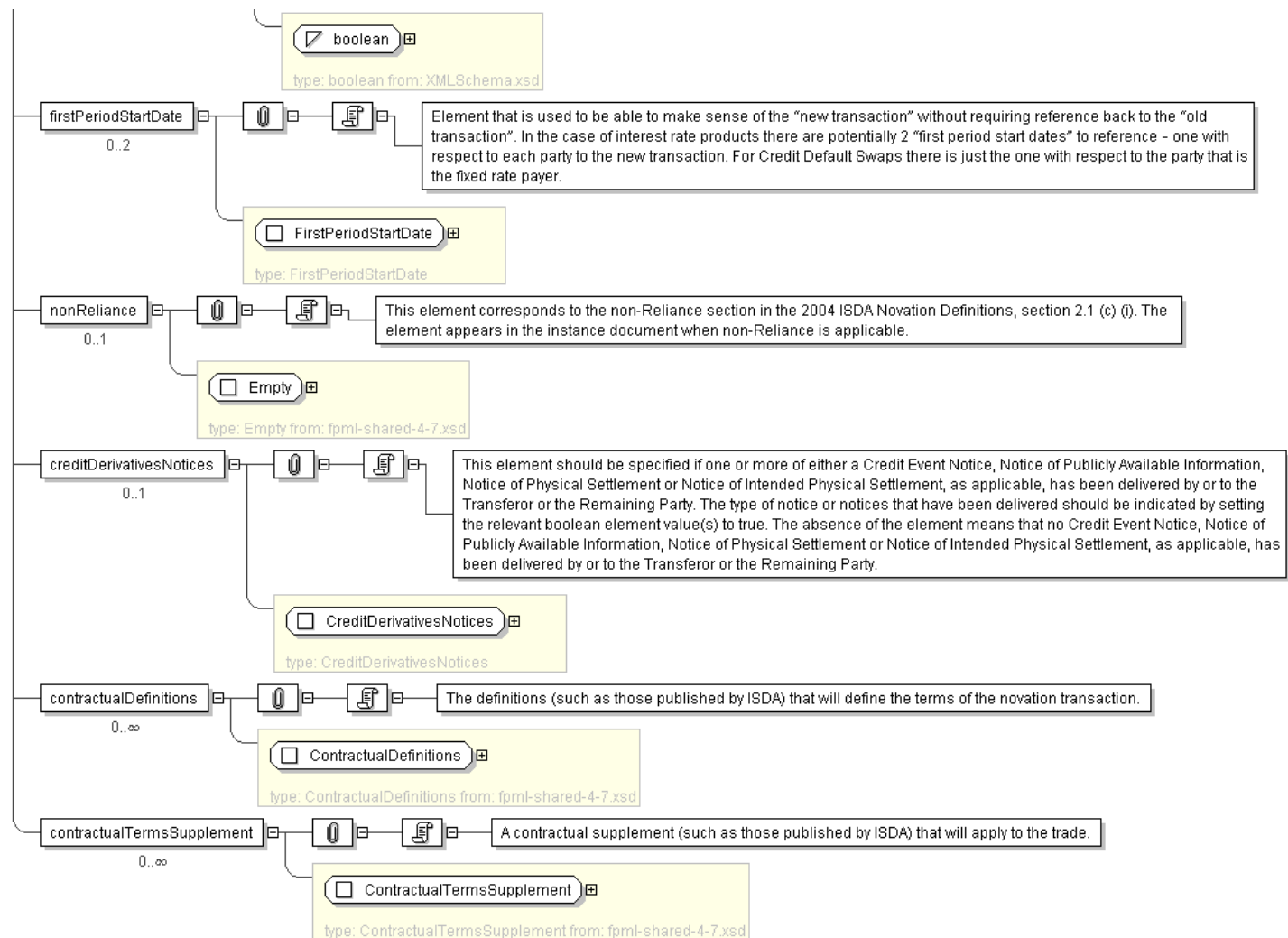
<contractualTermsSupplement> ContractualTermsSupplement </contractualTermsSupplement> [0..*]
'A contractual supplement (such as those published by ISDA) that will apply to the trade.'

```

## Diagram







### Schema Component Representation

```

<xsd:group name="ContractNovationDetails.model">
  <xsd:sequence>
    <xsd:choice>
      <xsd:choice>
        <xsd:element name="newContractReference" type="ContractReference" />
        <xsd:element name="newContract" type="Contract" />
      </xsd:choice>
      <xsd:sequence>
        <xsd:choice>
          <xsd:element name="oldContractReference" type="ContractReference" />
          <xsd:element name="oldContract" type="Contract" />
        </xsd:choice>
        <xsd:choice minOccurs="0">
          <xsd:element name="newContractReference" type="ContractReference" />
          <xsd:element name="newContract" type="Contract" />
        </xsd:choice>
      </xsd:sequence>
    </xsd:choice>
    <xsd:element name="transferor" type="PartyReference" />
  </xsd:sequence>
</xsd:group>

```



```
<xsd:element name="transferee" type=" PartyReference " />
<xsd:element name="remainingParty" type=" PartyReference " />
<xsd:element name="otherRemainingParty" type=" PartyReference " minOccurs="0"/>
<xsd:element name="novationDate" type=" xsd:date " />
<xsd:element name="novationContractDate" type=" xsd:date " minOccurs="0"/>
<xsd:choice>
  <xsd:element name="novatedAmount" type=" Money " />
  <xsd:element name="novatedNumberOfOptions" type=" xsd:decimal " />
  <xsd:element name="novatedNumberOfUnits" type=" xsd:decimal " />
</xsd:choice>
<xsd:element name="fullFirstCalculationPeriod" type=" xsd:boolean " minOccurs="0"/>
<xsd:element name="firstPeriodStartDate" type=" FirstPeriodStartDate "
minOccurs="0" maxOccurs="2"/>
<xsd:element name="nonReliance" type=" Empty " minOccurs="0"/>
<xsd:element name="creditDerivativesNotices" type=" CreditDerivativesNotices " minOccurs="0"/>
<xsd:element name="contractualDefinitions" type=" ContractualDefinitions "
minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="contractualTermsSupplement" type=" ContractualTermsSupplement
" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **ContractOrContractReference.model**

Name	ContractOrContractReference.model
Documentation	Choice between identification and representation of the contract.

XML Instance Representation

Start Choice [1]

<contract> Contract </contract> [1]

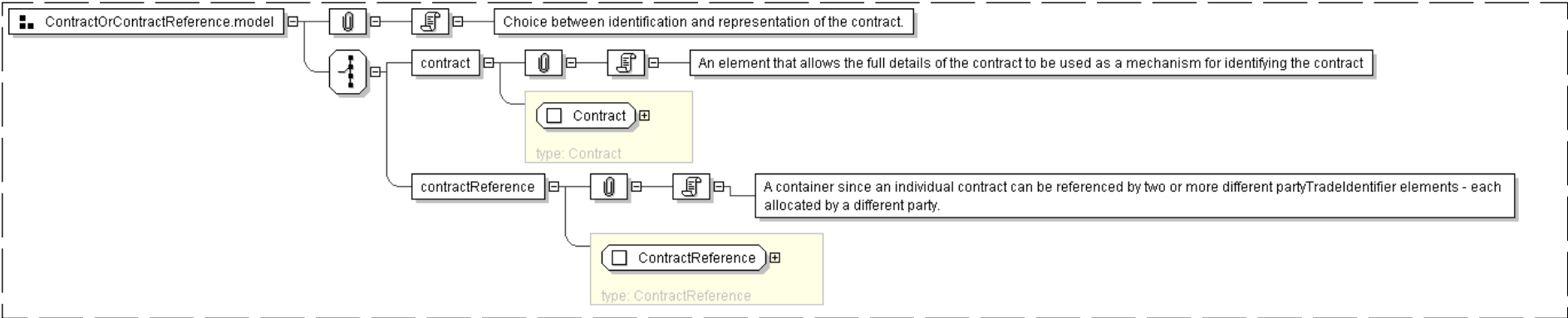
'An element that allows the full details of the contract to be used as a mechanism for identifying the contract'

<contractReference> ContractReference </contractReference> [1]

'A container since an individual contract can be referenced by two or more different partyTradeIdentifier elements - each allocated by a different party.'

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="ContractOrContractReference.model">
  <xsd:choice>
    <xsd:element name="contract" type=" Contract " />
```

```
<xsd:element name="contractReference" type="ContractReference" />
</xsd:choice>
</xsd:group>
```

Model Group: **IncreaseDetails.model**

Name	IncreaseDetails.model
Used by (from the same schema document)	Complex Type <a href="#">Increase</a>

XML Instance Representation

```
<increaseTradeDate> xsd:date </increaseTradeDate> [1]
'The date on which the the parties enter into the Increase transaction'

<increaseEffectiveDate> xsd:date </increaseEffectiveDate> [1]
'The date on which the Increase becomes effective'

Start Choice [1]
  <increaseInNotionalAmount> Money </increaseInNotionalAmount> [1]
  'Specifies the fixed amount by which the Notional increases due to the Increase transaction.'

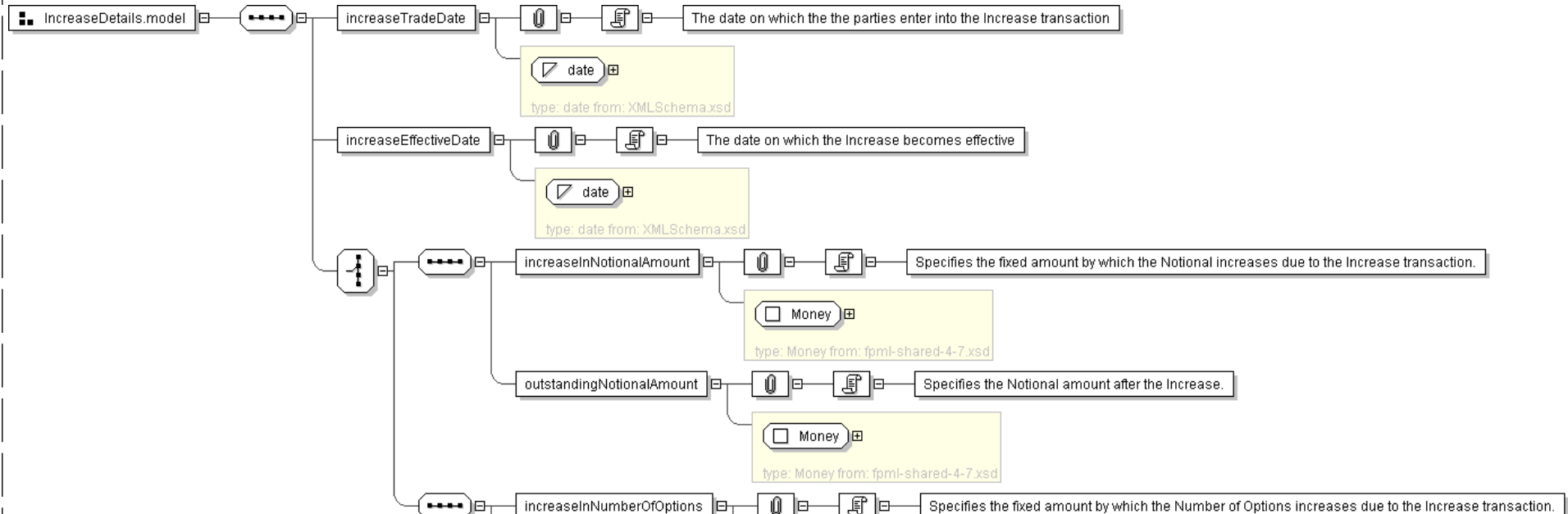
  <outstandingNotionalAmount> Money </outstandingNotionalAmount> [1]
  'Specifies the Notional amount after the Increase.'

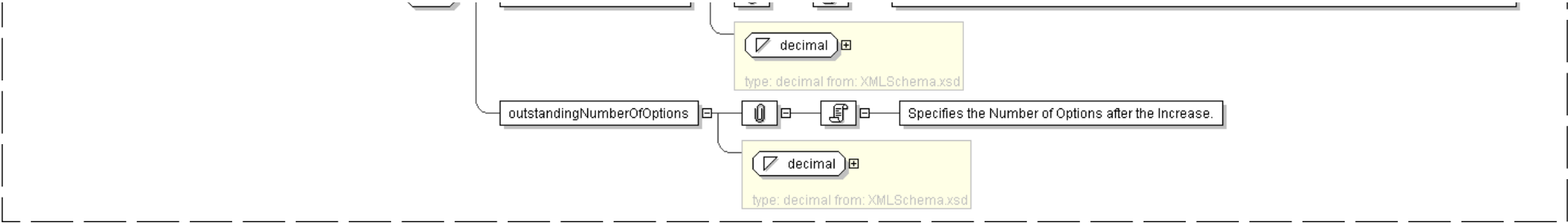
  <increaseInNumberOfOptions> xsd:decimal </increaseInNumberOfOptions> [1]
  'Specifies the fixed amount by which the Number of Options increases due to the
  Increase transaction.'

  <outstandingNumberOfOptions> xsd:decimal </outstandingNumberOfOptions> [1]
  'Specifies the Number of Options after the Increase.'

End Choice
```

Diagram





Schema Component Representation

```
<xsd:group name="IncreaseDetails.model">
  <xsd:sequence>
    <xsd:element name="increaseTradeDate" type="xsd:date" />
    <xsd:element name="increaseEffectiveDate" type="xsd:date" />
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="increaseInNotionalAmount" type="Money" />
        <xsd:element name="outstandingNotionalAmount" type="Money" />
      </xsd:sequence>
      <xsd:sequence>
        <xsd:element name="increaseInNumberOfOptions" type="xsd:decimal" />
        <xsd:element name="outstandingNumberOfOptions" type="xsd:decimal" />
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **TradeOrTradeReference.model**

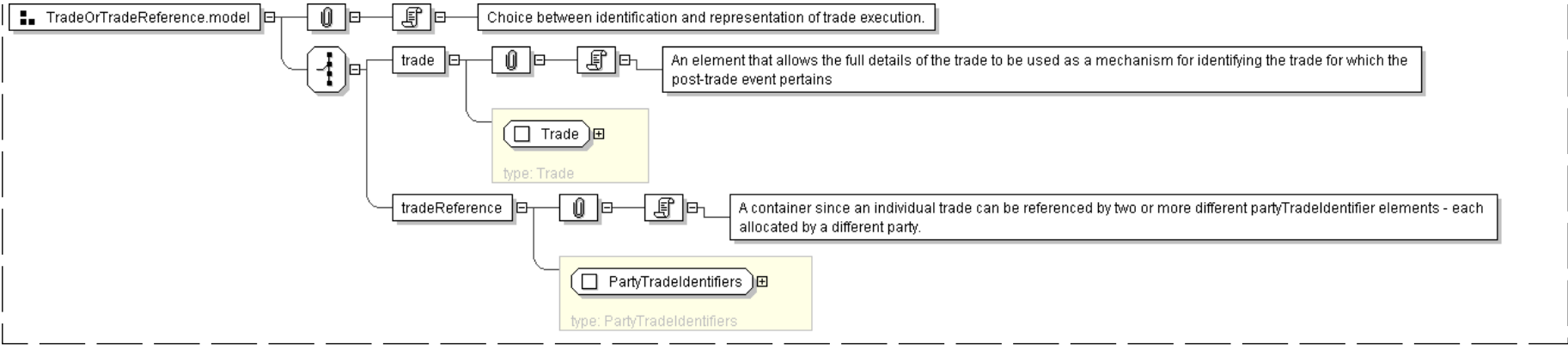
Name	TradeOrTradeReference.model
Used by (from the same schema document)	Complex Type <a href="#">Increase</a>
Documentation	Choice between identification and representation of trade execution.

XML Instance Representation

```
Start Choice [1]
<trade> Trade </trade> [1]
'An element that allows the full details of the trade to be used as a mechanism for
identifying the trade for which the post-trade event pertains'

<tradeReference> PartyTradeIdentifiers </tradeReference> [1]
'A container since an individual trade can be referenced by two or more
different partyTradeIdentifier elements - each allocated by a different party.'
```

Diagram



Schema Component Representation

```
<xsd:group name="TradeOrTradeReference.model">
  <xsd:choice>
    <xsd:element name="trade" type=" Trade " />
    <xsd:element name="tradeReference" type=" PartyTradeIdentifiers " />
  </xsd:choice>
</xsd:group>
```

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Model Group: **Validation.model**

Name	Validation.model
Used by (from the same schema document)	Complex Type <a href="#">DataDocument</a>

XML Instance Representation

```
<validation> Validation </validation> [0..*]
```

Diagram



Schema Component Representation

```
<xsd:group name="Validation.model">
  <xsd:sequence>
    <xsd:element name="validation" type=" Validation " minOccurs="0" maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:group>
```

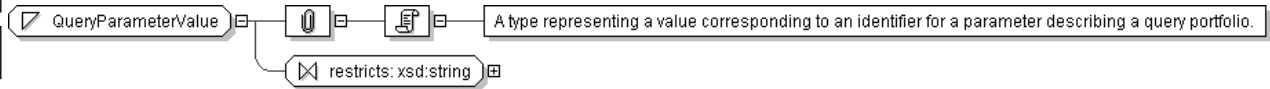
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Simple Type: **QueryParameterValue**

Super-types:	<a href="#">xsd:string</a> < <b>QueryParameterValue</b> (by restriction)
Sub-types:	None

Name	QueryParameterValue
Content	• Base XSD Type: string
Documentation	A type representing a value corresponding to an identifier for a parameter describing a query portfolio.

Diagram



Schema Component Representation

```
<xsd:simpleType name="QueryParameterValue">
  <xsd:restriction base="xsd:string" />
</xsd:simpleType>
```

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Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base="Address" >
<sequence>
<element name="state" type="AusStates" />
<element name="postcode" />
<simpleType>
<restriction base="string" >
<pattern value="[1-9][0-9]{3}" />
</restriction>
```

```
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

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Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6508 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema xmlns:fpml="http://www.fpml.org/2009/FpML-4-7" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6508 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  ...
</xsd:schema>
```

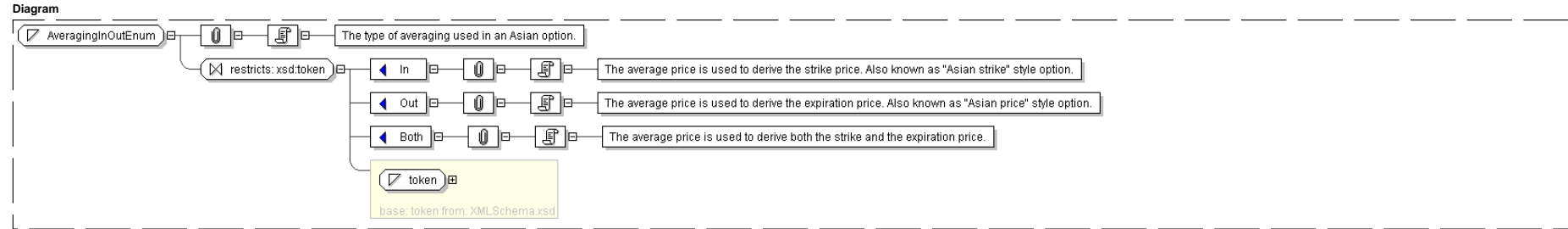
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Global Definitions

Simple Type: **AveragingInOutEnum**

Super-types:	<a href="#">xsd:token</a> < <b>AveragingInOutEnum</b> (by restriction)
Sub-types:	None

Name	AveragingInOutEnum
Content	<ul style="list-style-type: none"><li>• Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li>• <i>value</i> comes from list: {'In','Out','Both'}</li></ul> The type of averaging used in an Asian option.



Schema Component Representation

```
<xsd:simpleType name="AveragingInOutEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="In"/>
    <xsd:enumeration value="Out"/>
    <xsd:enumeration value="Both"/>
  </xsd:restriction>
</xsd:simpleType>
```

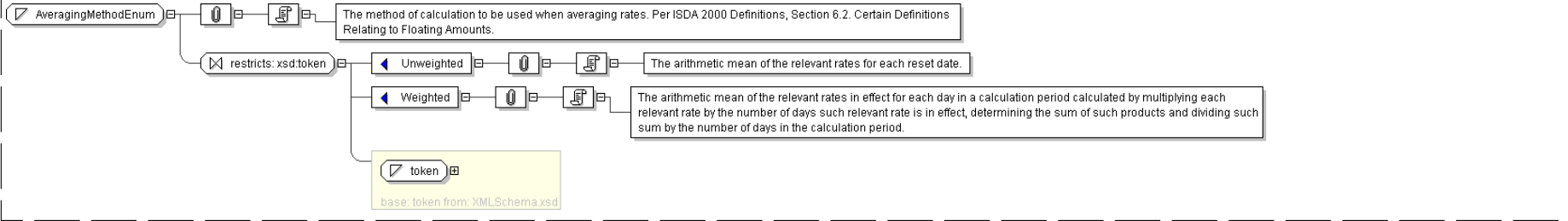
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Simple Type: **AveragingMethodEnum**

Super-types:	<a href="#">xsd:token</a> < <b>AveragingMethodEnum</b> (by restriction)
Sub-types:	None

Name	AveragingMethodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('Unweighted','Weighted')</li></ul>
Documentation	The method of calculation to be used when averaging rates. Per ISDA 2000 Definitions, Section 6.2. Certain Definitions Relating to Floating Amounts.

Diagram



Schema Component Representation

```
<xsd:simpleType name="AveragingMethodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Unweighted"/>
    <xsd:enumeration value="Weighted"/>
  </xsd:restriction>
</xsd:simpleType>
```

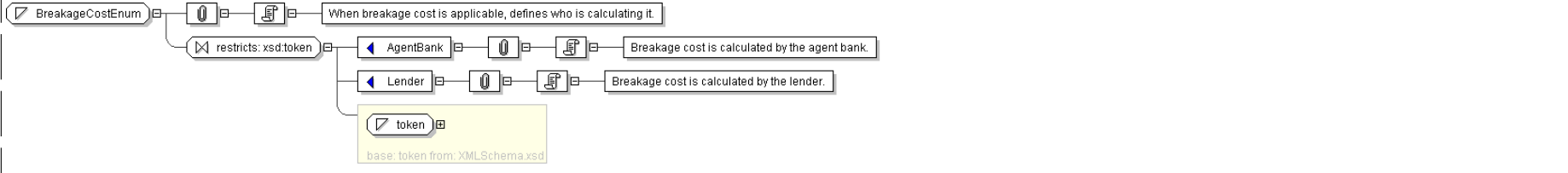
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Simple Type: **BreakageCostEnum**

Super-types:	<a href="#">xsd:token</a> < <b>BreakageCostEnum</b> (by restriction)
Sub-types:	None

Name	BreakageCostEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('AgentBank','Lender')</li></ul>
Documentation	When breakage cost is applicable, defines who is calculating it.

Diagram



Schema Component Representation

```
<xsd:simpleType name="BreakageCostEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="AgentBank"/>
    <xsd:enumeration value="Lender"/>
  </xsd:restriction>
</xsd:simpleType>
```

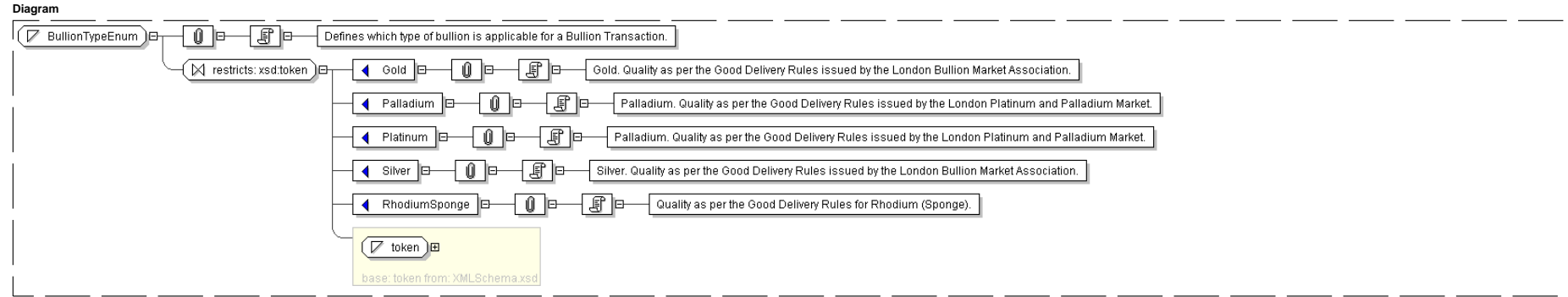
```
</xsd:restriction>
</xsd:simpleType>
```

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Simple Type: BullionTypeEnum

Super-types:	<a href="#">xsd:token</a> < <b>BullionTypeEnum</b> (by restriction)
Sub-types:	None

Name	BullionTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	Defines which type of bullion is applicable for a Bullion Transaction.



Schema Component Representation

```
<xsd:simpleType name="BullionTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Gold"/>
    <xsd:enumeration value="Palladium"/>
    <xsd:enumeration value="Platinum"/>
    <xsd:enumeration value="Silver"/>
    <xsd:enumeration value="RhodiumSponge"/>
  </xsd:restriction>
</xsd:simpleType>
```

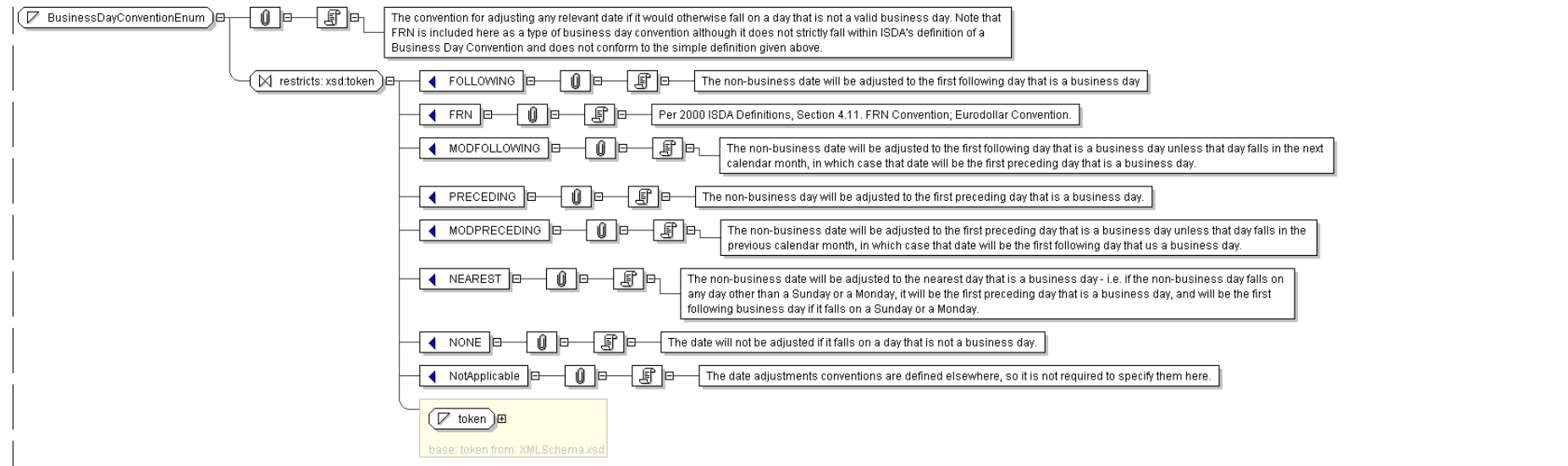
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Simple Type: BusinessDayConventionEnum

Super-types:	<a href="#">xsd:token</a> < <b>BusinessDayConventionEnum</b> (by restriction)
Sub-types:	None

Name	BusinessDayConventionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'FOLLOWING' 'FRN' 'MODFOLLOWING' 'PRECEDING' 'MODPRECEDING' 'NEAREST' 'NONE' 'NotApplicable'}</li></ul> <p>The convention for adjusting any relevant date if it would otherwise fall on a day that is not a valid business day. Note that FRN is included here as a type of business day convention although it does not strictly fall within ISDA's definition of a Business Day Convention and does not conform to the simple definition given above.</p>





Schema Component Representation

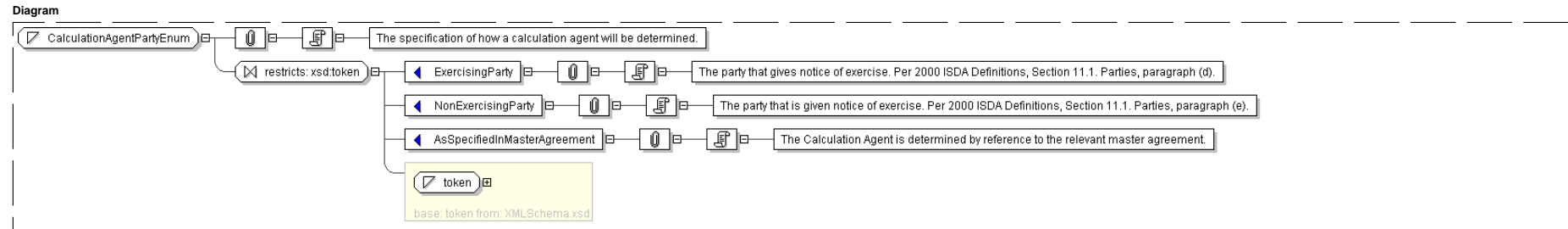
```
<xsd:simpleType name="BusinessDayConventionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="FOLLOWING"/>
    <xsd:enumeration value="FRN"/>
    <xsd:enumeration value="MODFOLLOWING"/>
    <xsd:enumeration value="PRECEDING"/>
    <xsd:enumeration value="MODPRECEDING"/>
    <xsd:enumeration value="NEAREST"/>
    <xsd:enumeration value="NONE"/>
    <xsd:enumeration value="NotApplicable"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **CalculationAgentPartyEnum**

Super-types:	xsd:token < <b>CalculationAgentPartyEnum</b> (by restriction)
Sub-types:	None

Name	CalculationAgentPartyEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: ('ExercisingParty','NonExercisingParty','AsSpecifiedInMasterAgreement')</li></ul>
Documentation	The specification of how a calculation agent will be determined.



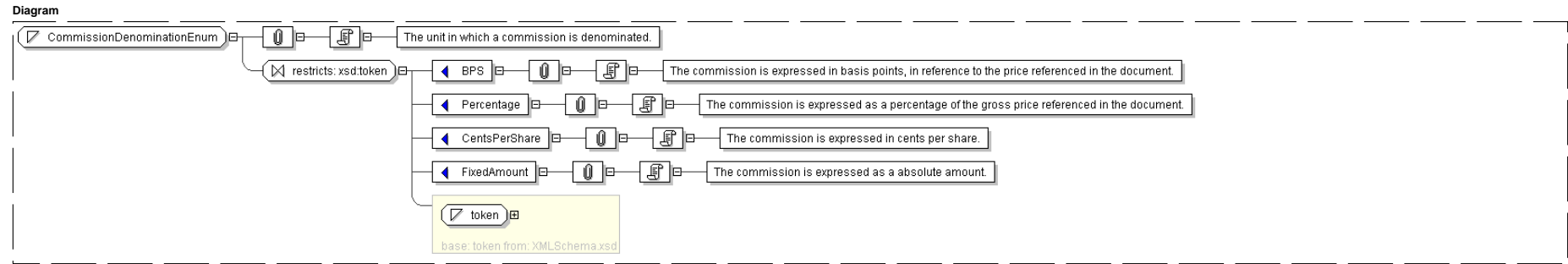
Schema Component Representation

```
<xsd:simpleType name="CalculationAgentPartyEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="ExercisingParty"/>
    <xsd:enumeration value="NonExercisingParty"/>
    <xsd:enumeration value="AsSpecifiedInMasterAgreement"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **CommissionDenominationEnum**

Super-types:	<a href="#">xsd:token</a> < <b>CommissionDenominationEnum</b> (by restriction)
Sub-types:	None

Name	CommissionDenominationEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('BPS','Percentage','CentsPerShare','FixedAmount')</li></ul>
Documentation	The unit in which a commission is denominated.



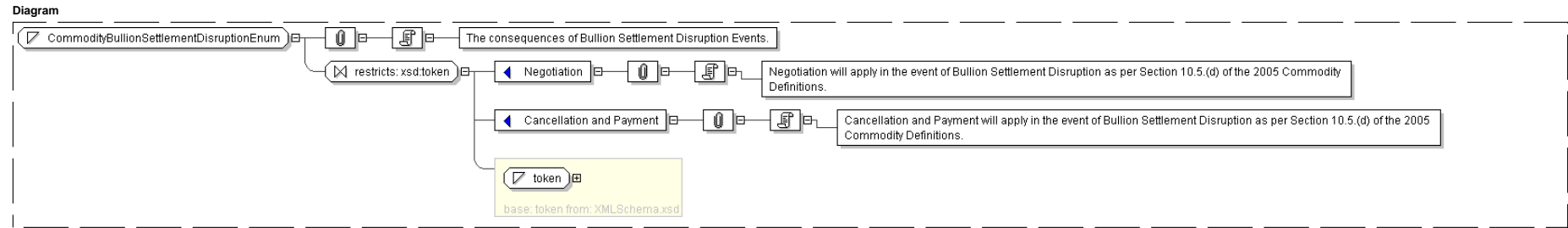
Schema Component Representation

```
<xsd:simpleType name="CommissionDenominationEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="BPS"/>
    <xsd:enumeration value="Percentage"/>
    <xsd:enumeration value="CentsPerShare"/>
    <xsd:enumeration value="FixedAmount"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **CommodityBullionSettlementDisruptionEnum**

Super-types:	<a href="#">xsd:token</a> < <b>CommodityBullionSettlementDisruptionEnum</b> (by restriction)
Sub-types:	None

Name	CommodityBullionSettlementDisruptionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('Negotiation','Cancellation and Payment')</li></ul>
Documentation	The consequences of Bullion Settlement Disruption Events.

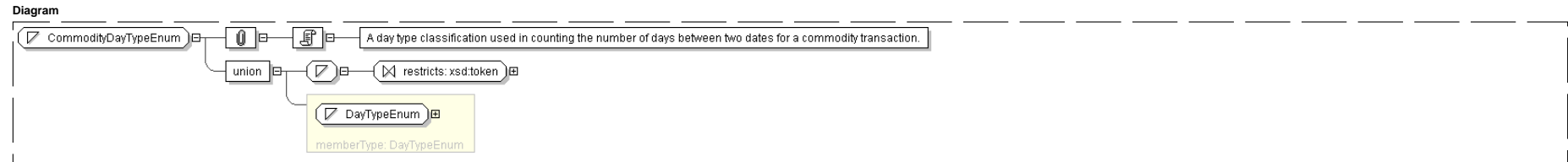


Schema Component Representation

```
<xsd:simpleType name="CommodityBullionSettlementDisruptionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Negotiation"/>
    <xsd:enumeration value="Cancellation and Payment"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **CommodityDayTypeEnum**

Super-types:	None
Sub-types:	None
Name	CommodityDayTypeEnum
Content	<ul style="list-style-type: none"><li>Union of following types:<ul style="list-style-type: none"><li>DayTypeEnum</li><li>Locally defined type:<ul style="list-style-type: none"><li>Base XSD Type: token</li><li>value comes from list: {GasFlow}</li></ul></li></ul></li></ul>
Documentation	A day type classification used in counting the number of days between two dates for a commodity transaction.

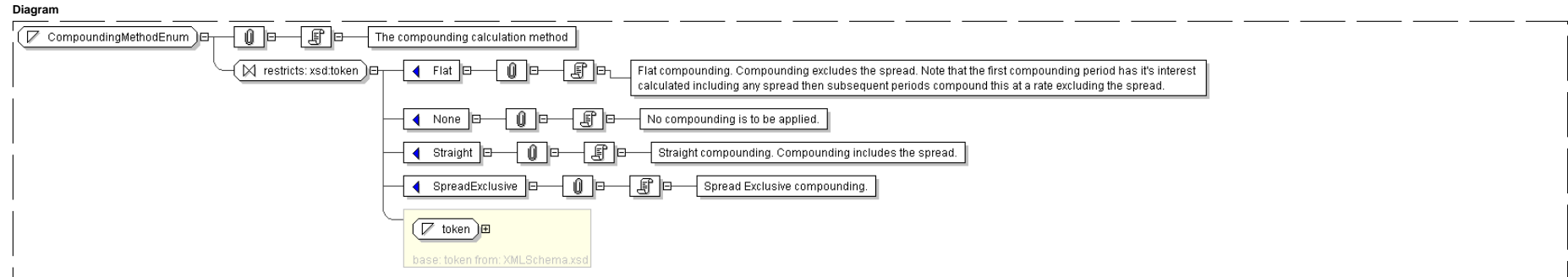


Schema Component Representation

```
<xsd:simpleType name="CommodityDayTypeEnum">
  <xsd:union memberTypes="DayTypeEnum">
    <xsd:simpleType>
      <xsd:restriction base="xsd:token">
        <xsd:enumeration value="GasFlow"/>
      </xsd:restriction>
    </xsd:simpleType>
  </xsd:union>
</xsd:simpleType>
```

Simple Type: **CompoundingMethodEnum**

Super-types:	xsd:token < <b>CompoundingMethodEnum</b> (by restriction)
Sub-types:	None
Name	CompoundingMethodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li>value comes from list: {Flat}NoneStraightSpreadExclusive}</li></ul>
Documentation	The compounding calculation method

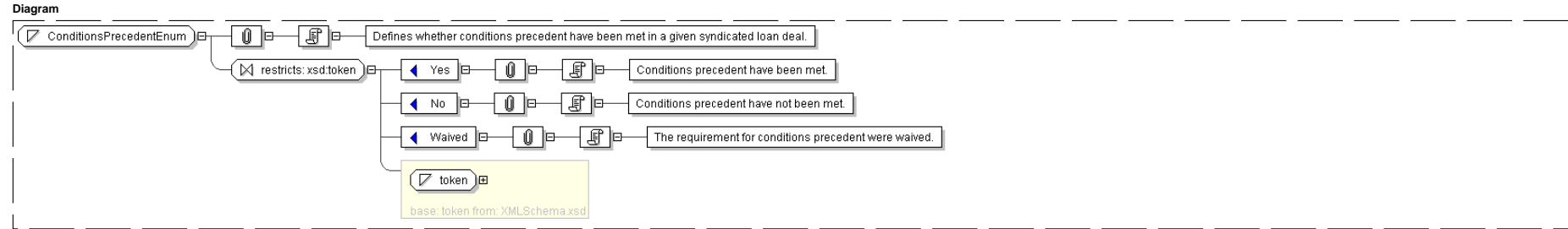


Schema Component Representation

```
<xsd:simpleType name="CompoundingMethodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Flat"/>
    <xsd:enumeration value="None"/>
    <xsd:enumeration value="Straight"/>
    <xsd:enumeration value="SpreadExclusive"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **ConditionsPrecedentEnum**

Super-types:	<a href="#">xsd:token</a> < <b>ConditionsPrecedentEnum</b> (by restriction)
Sub-types:	None
Name	ConditionsPrecedentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {<i>Yes</i> <i>No</i> <i>Waived</i>}</li></ul>
Documentation	Defines whether conditions precedent have been met in a given syndicated loan deal.

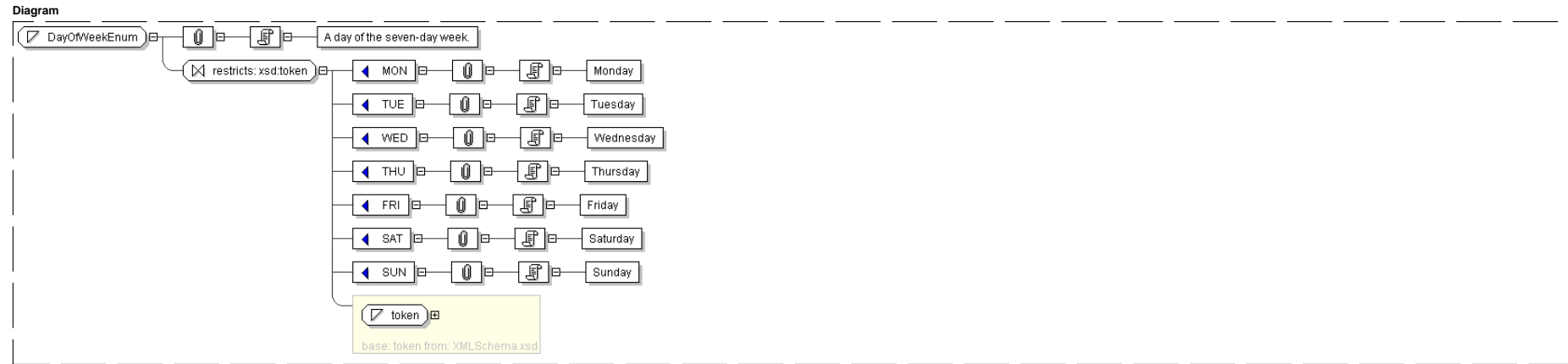


Schema Component Representation

```
<xsd:simpleType name="ConditionsPrecedentEnum">  
  <xsd:restriction base="xsd:token" >  
    <xsd:enumeration value="Yes"/>  
    <xsd:enumeration value="No"/>  
    <xsd:enumeration value="Waived"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

Simple Type: **DayOfWeekEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DayOfWeekEnum</b> (by restriction)
Sub-types:	None
Name	DayOfWeekEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {<i>MON</i> <i>TUE</i> <i>WED</i> <i>THU</i> <i>FRI</i> <i>SAT</i> <i>SUN</i>}</li></ul>
Documentation	A day of the seven-day week.



Schema Component Representation

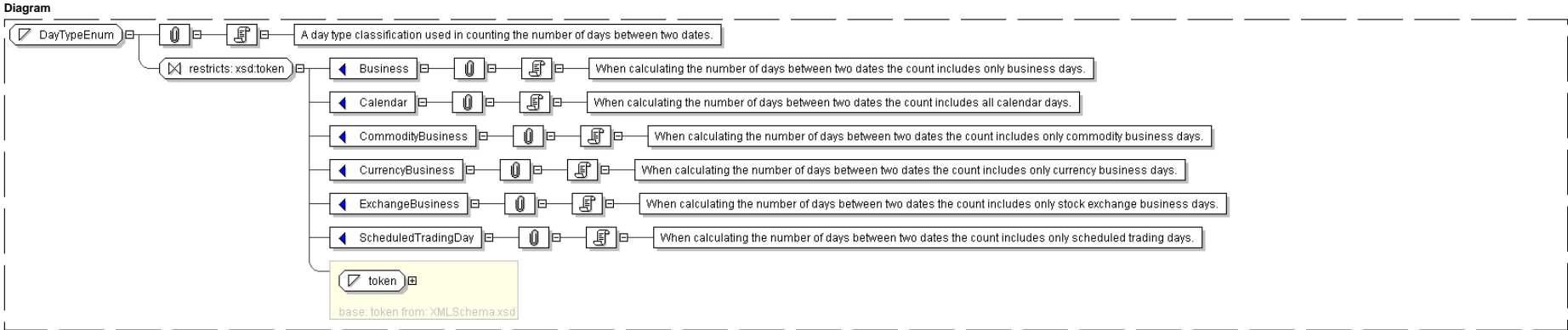
```
<xsd:simpleType name="DayOfWeekEnum">  
  <xsd:restriction base="xsd:token" >  
    <xsd:enumeration value="MON"/>  
    <xsd:enumeration value="TUE"/>  
    <xsd:enumeration value="WED"/>  
    <xsd:enumeration value="THU"/>  
    <xsd:enumeration value="FRI"/>  
    <xsd:enumeration value="SAT"/>  
    <xsd:enumeration value="SUN"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

```
<xsd:enumeration value="MON" />
<xsd:enumeration value="TUE" />
<xsd:enumeration value="WED" />
<xsd:enumeration value="THU" />
<xsd:enumeration value="FRI" />
<xsd:enumeration value="SAT" />
<xsd:enumeration value="SUN" />
</xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **DayTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DayTypeEnum</b> (by restriction)
Sub-types:	None
Name	DayTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'Business','Calendar','CommodityBusiness','CurrencyBusiness','ExchangeBusiness','ScheduledTradingDay'}</li></ul>
Documentation	A day type classification used in counting the number of days between two dates.



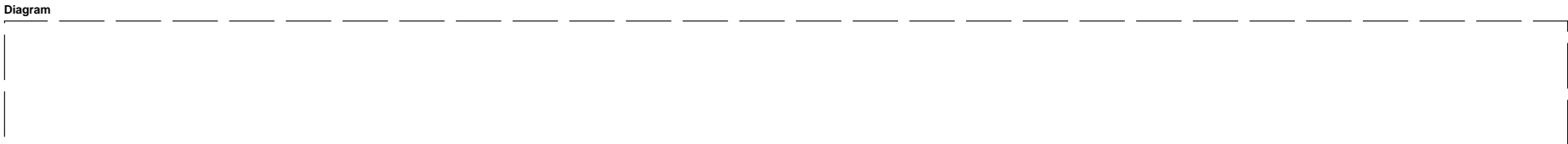
Schema Component Representation

```
<xsd:simpleType name="DayTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Business"/>
    <xsd:enumeration value="Calendar"/>
    <xsd:enumeration value="CommodityBusiness"/>
    <xsd:enumeration value="CurrencyBusiness"/>
    <xsd:enumeration value="ExchangeBusiness"/>
    <xsd:enumeration value="ScheduledTradingDay"/>
  </xsd:restriction>
</xsd:simpleType>
```

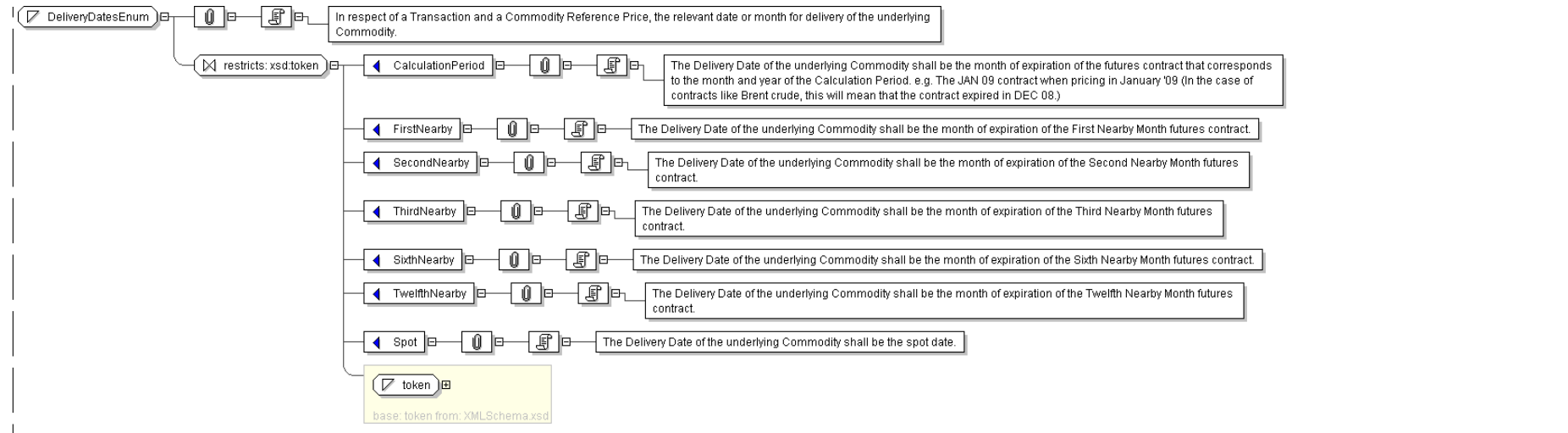
[top](#)

Simple Type: **DeliveryDatesEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DeliveryDatesEnum</b> (by restriction)
Sub-types:	None
Name	DeliveryDatesEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'CalculationPeriod','FirstNearby','SecondNearby','ThirdNearby','SixthNearby','TwelfthNearby','Spot'}</li></ul>
Documentation	In respect of a Transaction and a Commodity Reference Price, the relevant date or month for delivery of the underlying Commodity.







Schema Component Representation

```
<xsd:simpleType name="DeliveryDatesEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="CalculationPeriod"/>
    <xsd:enumeration value="FirstNearby"/>
    <xsd:enumeration value="SecondNearby"/>
    <xsd:enumeration value="ThirdNearby"/>
    <xsd:enumeration value="SixthNearby"/>
    <xsd:enumeration value="TwelfthNearby"/>
    <xsd:enumeration value="Spot"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **DeliveryTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DeliveryTypeEnum</b> (by restriction)
Sub-types:	None
Name	DeliveryTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Firm','Interruptible'}</li></ul>



Schema Component Representation

```
<xsd:simpleType name="DeliveryTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Firm"/>
    <xsd:enumeration value="Interruptible"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **DifferenceSeverityEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DifferenceSeverityEnum</b> (by restriction)
Sub-types:	None

Name	DifferenceSeverityEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {Warning&gt;Error}</li></ul> <p>The ISDA defined value indicating the severity of a difference.</p>



Schema Component Representation

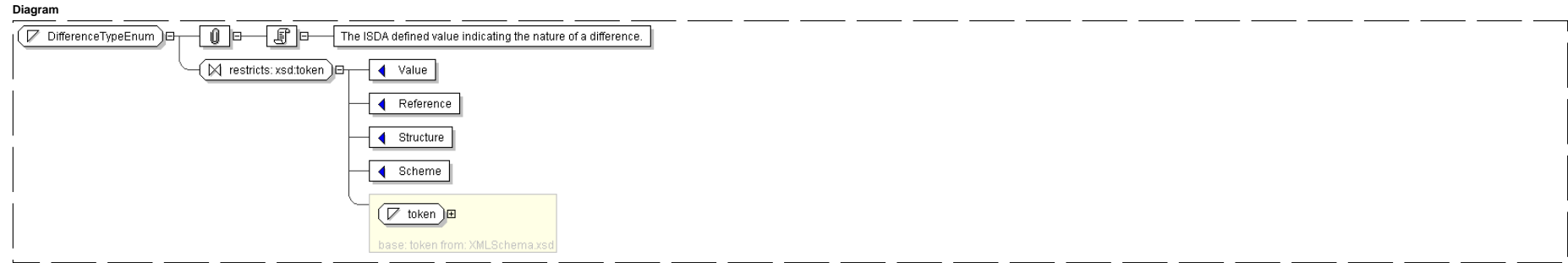
```
<xsd:simpleType name="DifferenceSeverityEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Warning"/>
    <xsd:enumeration value="Error"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **DifferenceTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DifferenceTypeEnum</b> (by restriction)
Sub-types:	None

Name	DifferenceTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {Value}Reference{Structure}Scheme}</li></ul> <p>The ISDA defined value indicating the nature of a difference.</p>



Schema Component Representation

```
<xsd:simpleType name="DifferenceTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Value"/>
    <xsd:enumeration value="Reference"/>
    <xsd:enumeration value="Structure"/>
    <xsd:enumeration value="Scheme"/>
  </xsd:restriction>
</xsd:simpleType>
```

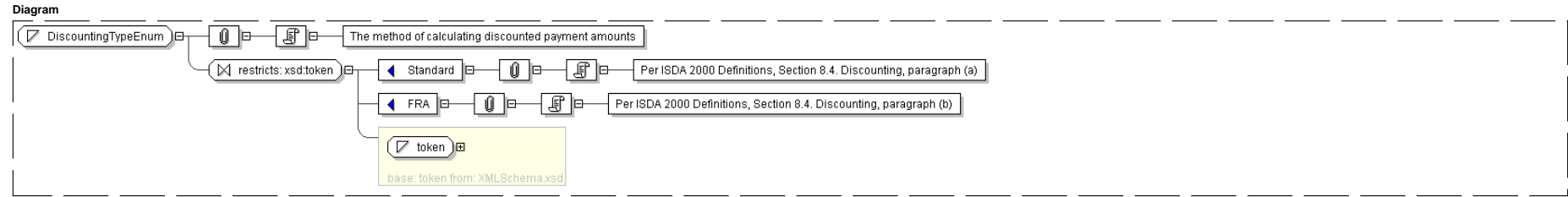
[top](#)

Simple Type: **DiscountingTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DiscountingTypeEnum</b> (by restriction)
Sub-types:	None

Name	DiscountingTypeEnum
------	---------------------

Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'Standard','FRA'}</li></ul> <p>The method of calculating discounted payment amounts</p>



Schema Component Representation

```
<xsd:simpleType name="DiscountingTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Standard"/>
    <xsd:enumeration value="FRA"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **DisruptionFallbacksEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DisruptionFallbacksEnum</b> (by restriction)
Sub-types:	None

Name	DisruptionFallbacksEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'AsSpecifiedInMasterAgreement'}</li></ul> <p>The specification of how disruption fallbacks will be represented.</p>



Schema Component Representation

```
<xsd:simpleType name="DisruptionFallbacksEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="AsSpecifiedInMasterAgreement"/>
  </xsd:restriction>
</xsd:simpleType>
```

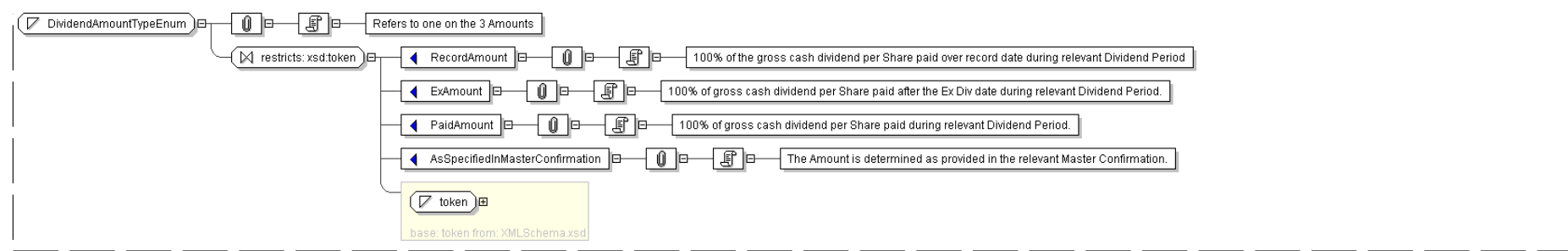
[top](#)

Simple Type: **DividendAmountTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DividendAmountTypeEnum</b> (by restriction)
Sub-types:	None

Name	DividendAmountTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'RecordAmount','ExAmount','PaidAmount','AsSpecifiedInMasterConfirmation'}</li></ul> <p>Refers to one on the 3 Amounts</p>





**Schema Component Representation**

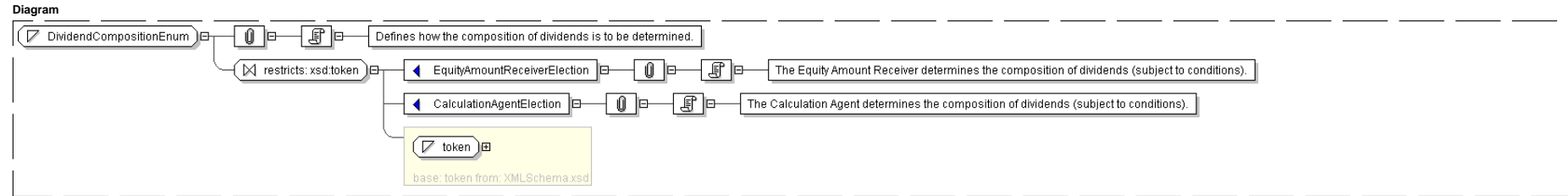
```
<xsd:simpleType name="DividendAmountTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="RecordAmount"/>
    <xsd:enumeration value="ExAmount"/>
    <xsd:enumeration value="PaidAmount"/>
    <xsd:enumeration value="AsSpecifiedInMasterConfirmation"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **DividendCompositionEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DividendCompositionEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	DividendCompositionEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
<b>Documentation</b>	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'EquityAmountReceiverElection','CalculationAgentElection'}</li></ul> Defines how the composition of dividends is to be determined.



**Schema Component Representation**

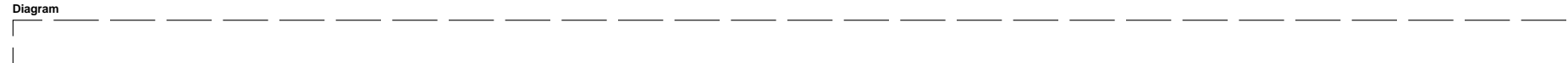
```
<xsd:simpleType name="DividendCompositionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="EquityAmountReceiverElection"/>
    <xsd:enumeration value="CalculationAgentElection"/>
  </xsd:restriction>
</xsd:simpleType>
```

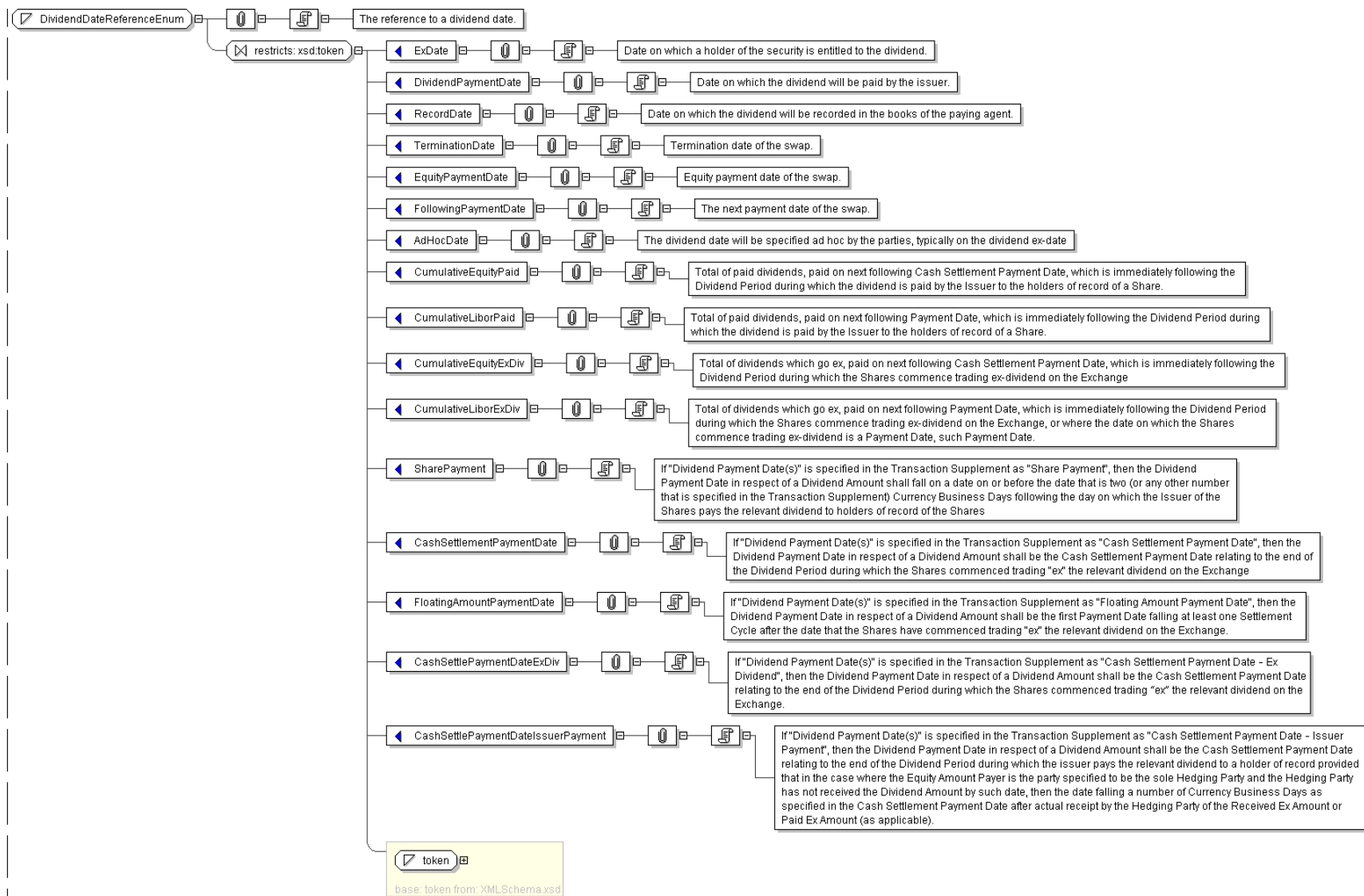
[top](#)

Simple Type: **DividendDateReferenceEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DividendDateReferenceEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	DividendDateReferenceEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
<b>Documentation</b>	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'ExDate','DividendPaymentDate','RecordDate','TerminationDate','EquityPaymentDate','FollowingPaymentDate','AdHocDate','CumulativeEquityPaid','CumulativeLiberPaid','CumulativeEquityExDiv','CumulativeLiberExDiv','SharePayment','CashSettlementPaymentDate','FloatingAmountPaymentDate','CashSettlePaymentDateExDiv','CashSettlePaymentDateIssuerPayment'}</li></ul> The reference to a dividend date.





## Schema Component Representation

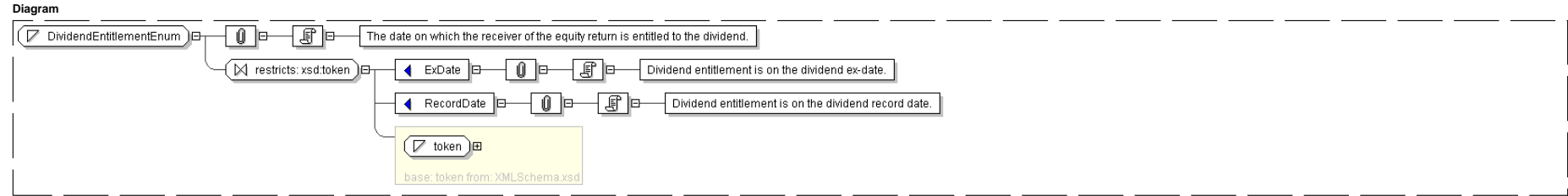
```

<xsd:simpleType name="DividendDateReferenceEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="ExDate"/>
    <xsd:enumeration value="DividendPaymentDate"/>
    <xsd:enumeration value="RecordDate"/>
    <xsd:enumeration value="TerminationDate"/>
    <xsd:enumeration value="EquityPaymentDate"/>
    <xsd:enumeration value="FollowingPaymentDate"/>
    <xsd:enumeration value="AdHocDate"/>
    <xsd:enumeration value="CumulativeEquityPaid"/>
    <xsd:enumeration value="CumulativeLiborPaid"/>
    <xsd:enumeration value="CumulativeEquityExDiv"/>
    <xsd:enumeration value="CumulativeLiborExDiv"/>
    <xsd:enumeration value="SharePayment"/>
    <xsd:enumeration value="CashSettlementPaymentDate"/>
    <xsd:enumeration value="FloatingAmountPaymentDate"/>
    <xsd:enumeration value="CashSettlePaymentDateExDiv"/>
    <xsd:enumeration value="CashSettlePaymentDateIssuerPayment"/>
  </xsd:restriction>
</xsd:simpleType>

```

Simple Type: **DividendEntitlementEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DividendEntitlementEnum</b> (by restriction)
Sub-types:	None
Name	DividendEntitlementEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'ExDate','RecordDate'}</li></ul>
Documentation	The date on which the receiver of the equity return is entitled to the dividend.

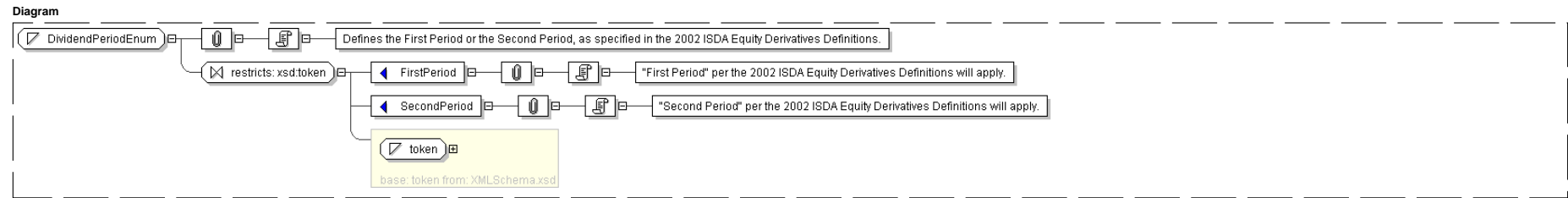


Schema Component Representation

```
<xsd:simpleType name="DividendEntitlementEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="ExDate"/>
    <xsd:enumeration value="RecordDate"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **DividendPeriodEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DividendPeriodEnum</b> (by restriction)
Sub-types:	None
Name	DividendPeriodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'FirstPeriod','SecondPeriod'}</li></ul>
Documentation	Defines the First Period or the Second Period, as specified in the 2002 ISDA Equity Derivatives Definitions.



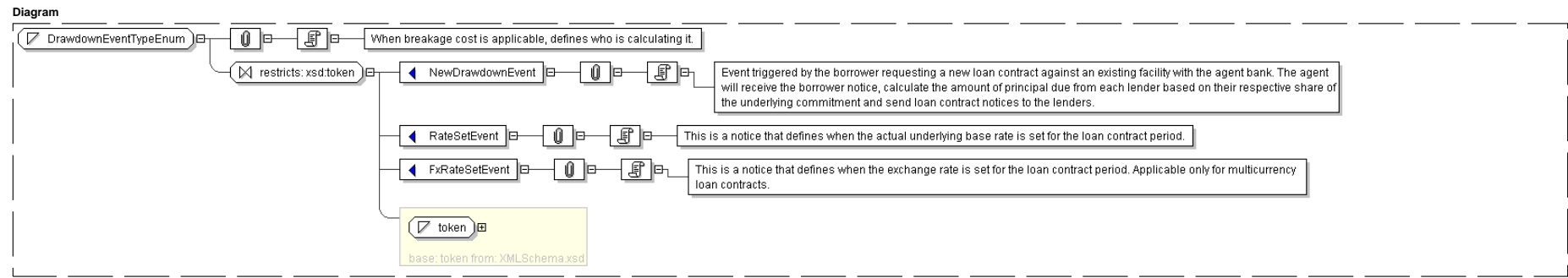
Schema Component Representation

```
<xsd:simpleType name="DividendPeriodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="FirstPeriod"/>
    <xsd:enumeration value="SecondPeriod"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **DrawdownEventTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>DrawdownEventTypeEnum</b> (by restriction)
Sub-types:	None

Name	DrawdownEventTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('NewDrawdownEvent','RateSetEvent','FxRateSetEvent')</li></ul>
Documentation	When breakage cost is applicable, defines who is calculating it.



Schema Component Representation

```
<xsd:simpleType name="DrawdownEventTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="NewDrawdownEvent"/>
    <xsd:enumeration value="RateSetEvent"/>
    <xsd:enumeration value="FxRateSetEvent"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: ElectricityProductTypeEnum

Super-types:	<a href="#">xsd:token</a> < <b>ElectricityProductTypeEnum</b> (by restriction)
Sub-types:	None

Name	ElectricityProductTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('Electricity')</li></ul>
Documentation	The type of electricity product.



Schema Component Representation

```
<xsd:simpleType name="ElectricityProductTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Electricity"/>
  </xsd:restriction>
</xsd:simpleType>
```

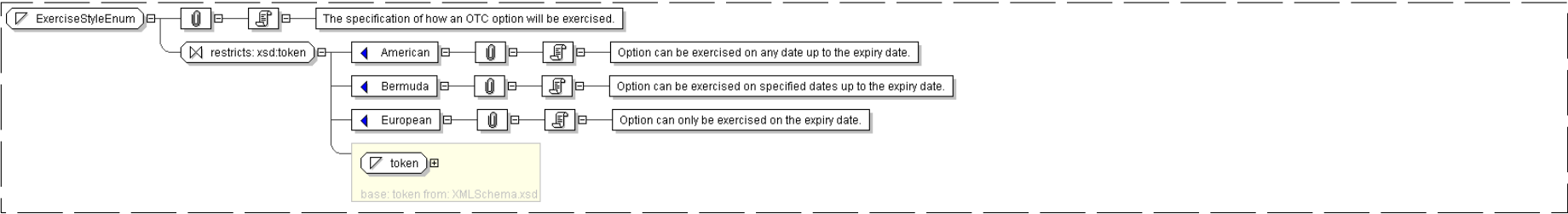
[top](#)

Simple Type: ExerciseStyleEnum

Super-types:	<a href="#">xsd:token</a> < <b>ExerciseStyleEnum</b> (by restriction)
Sub-types:	None

Name	ExerciseStyleEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('American','Bermuda','European')</li></ul>
Documentation	The specification of how an OTC option will be exercised.

Diagram



Schema Component Representation

```
<xsd:simpleType name="ExerciseStyleEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="American"/>
    <xsd:enumeration value="Bermuda"/>
    <xsd:enumeration value="European"/>
  </xsd:restriction>
</xsd:simpleType>
```

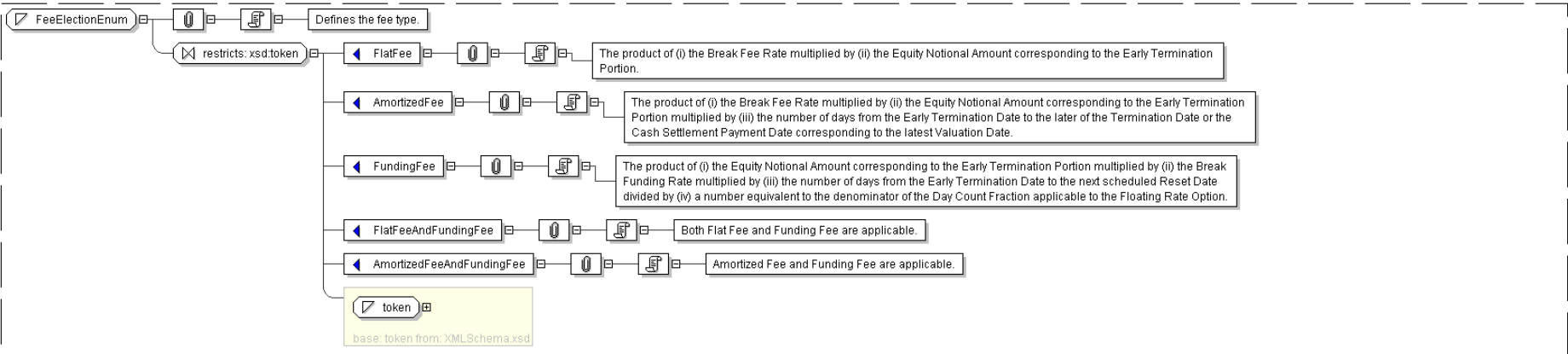
[top](#)

Simple Type: FeeElectionEnum

Super-types:	<a href="#">xsd:token</a> < <b>FeeElectionEnum</b> (by restriction)
Sub-types:	None

Name	FeeElectionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><code>value</code> comes from list: {'FlatFee','AmortizedFee','FundingFee','FlatFeeAndFundingFee','AmortizedFeeAndFundingFee'}</li></ul> Defines the fee type.

Diagram



Schema Component Representation

```
<xsd:simpleType name="FeeElectionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="FlatFee"/>
    <xsd:enumeration value="AmortizedFee"/>
    <xsd:enumeration value="FundingFee"/>
    <xsd:enumeration value="FlatFeeAndFundingFee"/>
    <xsd:enumeration value="AmortizedFeeAndFundingFee"/>
  </xsd:restriction>
</xsd:simpleType>
```

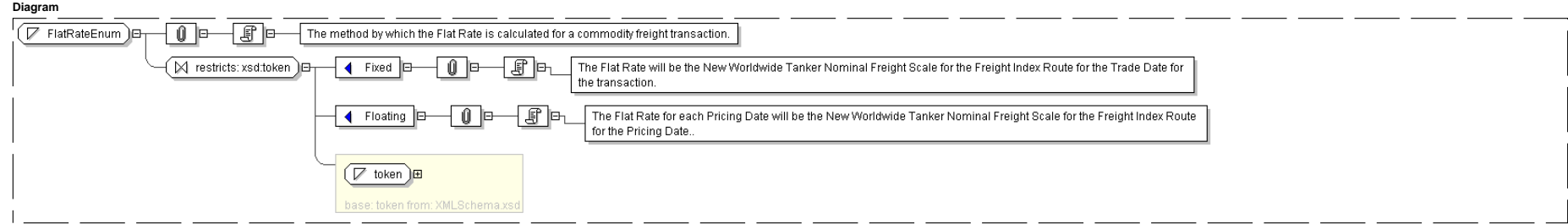
[top](#)

Simple Type: FlatRateEnum

Super-types:	<a href="#">xsd:token</a> < <b>FlatRateEnum</b> (by restriction)
--------------	--



Sub-types:	None
Name	FlatRateEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Fixed'}{'Floating'}</li></ul>
Documentation	The method by which the Flat Rate is calculated for a commodity freight transaction.



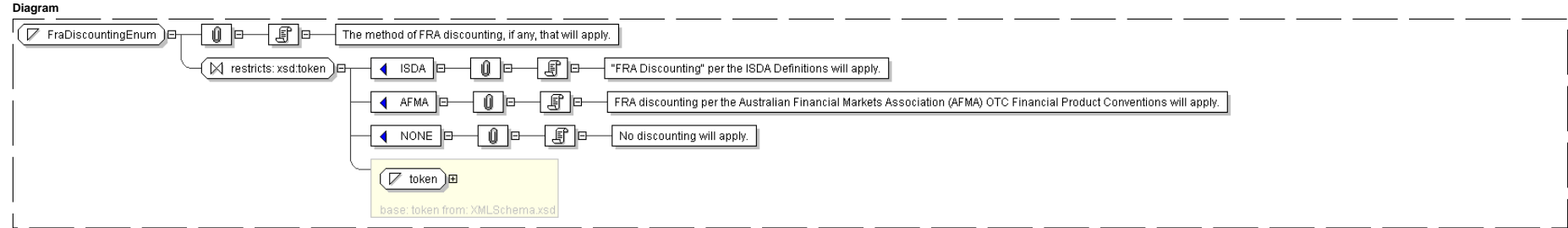
Schema Component Representation

```
<xsd:simpleType name="FlatRateEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Fixed"/>
    <xsd:enumeration value="Floating"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **FraDiscountingEnum**

Super-types:	<a href="#">xsd:token</a> < <b>FraDiscountingEnum</b> (by restriction)
Sub-types:	None
Name	FraDiscountingEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'ISDA'}{'AFMA'}{'NONE'}</li></ul>
Documentation	The method of FRA discounting, if any, that will apply.



Schema Component Representation

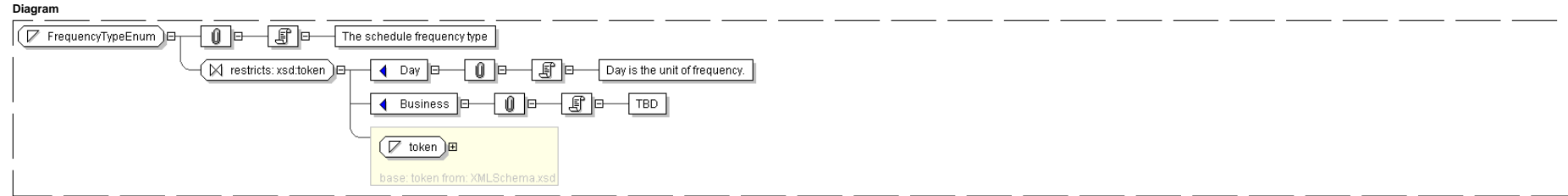
```
<xsd:simpleType name="FraDiscountingEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="ISDA"/>
    <xsd:enumeration value="AFMA"/>
    <xsd:enumeration value="NONE"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **FrequencyTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>FrequencyTypeEnum</b> (by restriction)
Sub-types:	None
Name	FrequencyTypeEnum

Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'Day','Business'}</li></ul> <p>The schedule frequency type</p>



Schema Component Representation

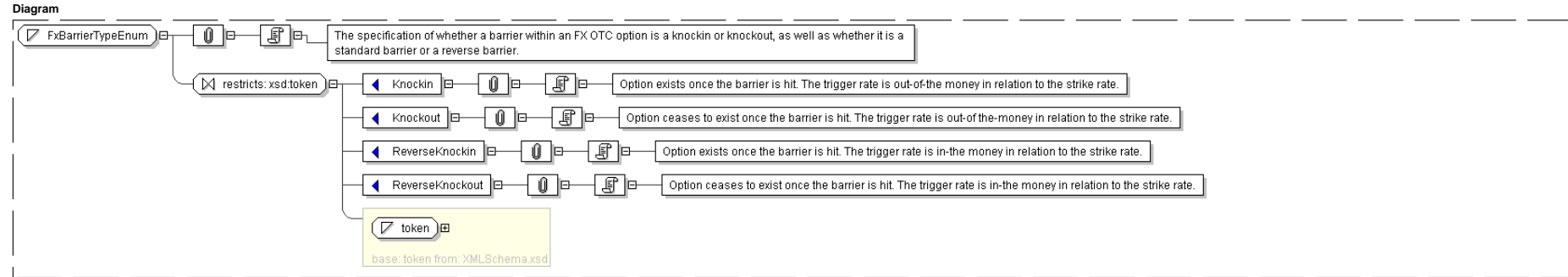
```
<xsd:simpleType name="FrequencyTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Day"/>
    <xsd:enumeration value="Business"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **FxBarrierTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>FxBarrierTypeEnum</b> (by restriction)
Sub-types:	None

Name	FxBarrierTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'Knockin','Knockout','ReverseKnockin','ReverseKnockout'}</li></ul> <p>The specification of whether a barrier within an FX OTC option is a knockin or knockout, as well as whether it is a standard barrier or a reverse barrier.</p>



Schema Component Representation

```
<xsd:simpleType name="FxBarrierTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Knockin"/>
    <xsd:enumeration value="Knockout"/>
    <xsd:enumeration value="ReverseKnockin"/>
    <xsd:enumeration value="ReverseKnockout"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **GasProductTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>GasProductTypeEnum</b> (by restriction)
Sub-types:	None

Name	GasProductTypeEnum
------	--------------------

Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'NaturalGas'}</li></ul> <p>The type of gas product.</p>



Schema Component Representation

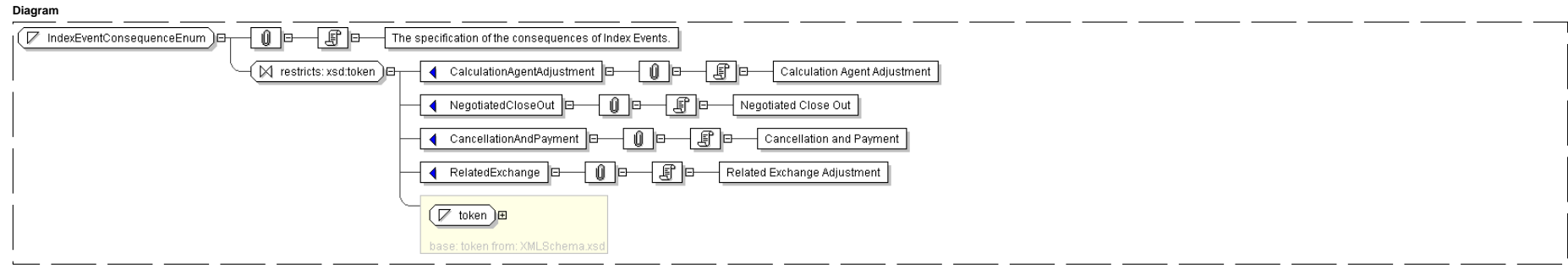
```
<xsd:simpleType name="GasProductTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="NaturalGas"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **IndexEventConsequenceEnum**

Super-types:	<a href="#">xsd:token</a> < <b>IndexEventConsequenceEnum</b> (by restriction)
Sub-types:	None

Name	IndexEventConsequenceEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'CalculationAgentAdjustment','NegotiatedCloseOut','CancellationAndPayment','RelatedExchange'}</li></ul> <p>The specification of the consequences of Index Events.</p>



Schema Component Representation

```
<xsd:simpleType name="IndexEventConsequenceEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="CalculationAgentAdjustment"/>
    <xsd:enumeration value="NegotiatedCloseOut"/>
    <xsd:enumeration value="CancellationAndPayment"/>
    <xsd:enumeration value="RelatedExchange"/>
  </xsd:restriction>
</xsd:simpleType>
```

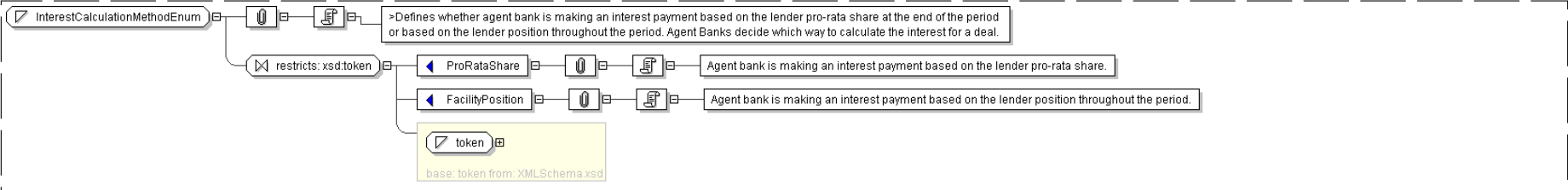
[top](#)

Simple Type: **InterestCalculationMethodEnum**

Super-types:	<a href="#">xsd:token</a> < <b>InterestCalculationMethodEnum</b> (by restriction)
Sub-types:	None

Name	InterestCalculationMethodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: {'ProRataShare','FacilityPosition'}</li></ul> <p>&gt;Defines whether agent bank is making an interest payment based on the lender pro-rata share at the end of the period or based on the lender position throughout the period. Agent Banks decide which way to calculate the interest for a deal.</p>

Diagram



Schema Component Representation

```
<xsd:simpleType name="InterestCalculationMethodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="ProRataShare"/>
    <xsd:enumeration value="FacilityPosition"/>
  </xsd:restriction>
</xsd:simpleType>
```

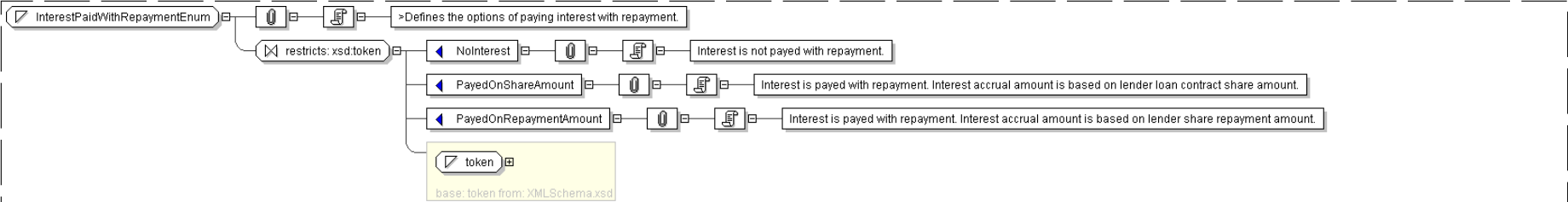
[top](#)

Simple Type: InterestPaidWithRepaymentEnum

Super-types:	xsd:token < <b>InterestPaidWithRepaymentEnum</b> (by restriction)
Sub-types:	None

Name	InterestPaidWithRepaymentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {NoInterest, PayedOnShareAmount, PayedOnRepaymentAmount}</li></ul>
Documentation	>Defines the options of paying interest with repayment.

Diagram



Schema Component Representation

```
<xsd:simpleType name="InterestPaidWithRepaymentEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="NoInterest"/>
    <xsd:enumeration value="PayedOnShareAmount"/>
    <xsd:enumeration value="PayedOnRepaymentAmount"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

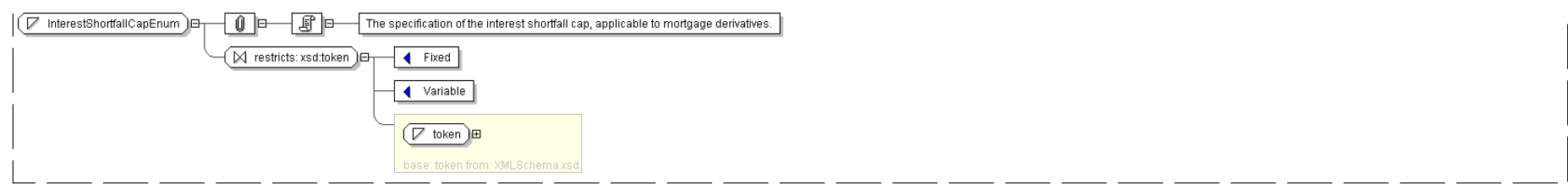
Simple Type: InterestShortfallCapEnum

Super-types:	xsd:token < <b>InterestShortfallCapEnum</b> (by restriction)
Sub-types:	None

Name	InterestShortfallCapEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {Fixed, Variable}</li></ul>
Documentation	The specification of the interest shortfall cap, applicable to mortgage derivatives.

Diagram





Schema Component Representation

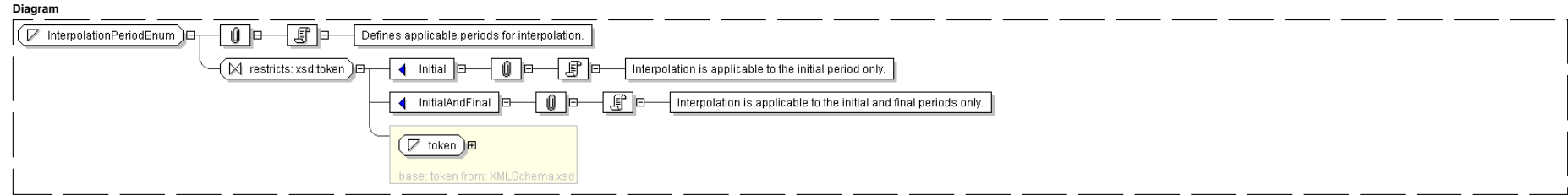
```
<xsd:simpleType name="InterestShortfallCapEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Fixed"/>
    <xsd:enumeration value="Variable"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **InterpolationPeriodEnum**

Super-types:	<a href="#">xsd:token</a> < <b>InterpolationPeriodEnum</b> (by restriction)
Sub-types:	None

Name	InterpolationPeriodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Initial','InitialAndFinal'}</li></ul>
Documentation	Defines applicable periods for interpolation.



Schema Component Representation

```
<xsd:simpleType name="InterpolationPeriodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Initial"/>
    <xsd:enumeration value="InitialAndFinal"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **LcPurposeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>LcPurposeEnum</b> (by restriction)
Sub-types:	None

Name	LcPurposeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Financial','Performance'}</li></ul>
Documentation	Defines the purpose of a Letter of Credit.





Schema Component Representation

```
<xsd:simpleType name="LcPurposeEnum">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Financial"/>
    <xsd:enumeration value="Performance"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **LcTypeEnum**

Super-types:	<a href="#">xsd:string</a> < <b>LcTypeEnum</b> (by restriction)
Sub-types:	None

Name	LcTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: <code>token</code></li><li><code>value</code> comes from list: ('Standby','Commercial')</li></ul>
Documentation	Defines the type of a Letter of Credit.



Schema Component Representation

```
<xsd:simpleType name="LcTypeEnum">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Standby"/>
    <xsd:enumeration value="Commercial"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **LengthUnitEnum**

Super-types:	<a href="#">xsd:string</a> < <b>LengthUnitEnum</b> (by restriction)
Sub-types:	None

Name	LengthUnitEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: <code>token</code></li><li><code>value</code> comes from list: ('Pages','TimeUnit')</li></ul>
Documentation	Used for indicating the length unit in the Resource type.





**Schema Component Representation**

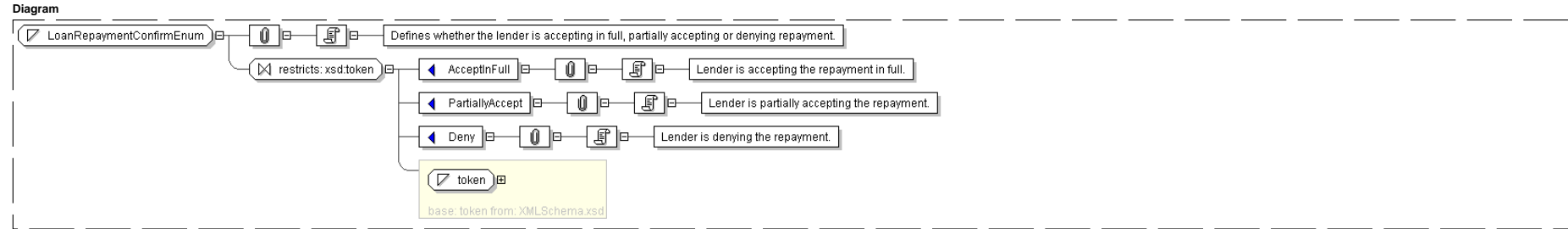
```
<xsd:simpleType name="LengthUnitEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Pages"/>
    <xsd:enumeration value="TimeUnit"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **LoanRepaymentConfirmEnum**

Super-types:	<a href="#">xsd:token</a> < <b>LoanRepaymentConfirmEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	LoanRepaymentConfirmEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'AcceptInFull','PartiallyAccept','Deny'}</li></ul>
<b>Documentation</b>	Defines whether the lender is accepting in full, partially accepting or denying repayment.



**Schema Component Representation**

```
<xsd:simpleType name="LoanRepaymentConfirmEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="AcceptInFull"/>
    <xsd:enumeration value="PartiallyAccept"/>
    <xsd:enumeration value="Deny"/>
  </xsd:restriction>
</xsd:simpleType>
```

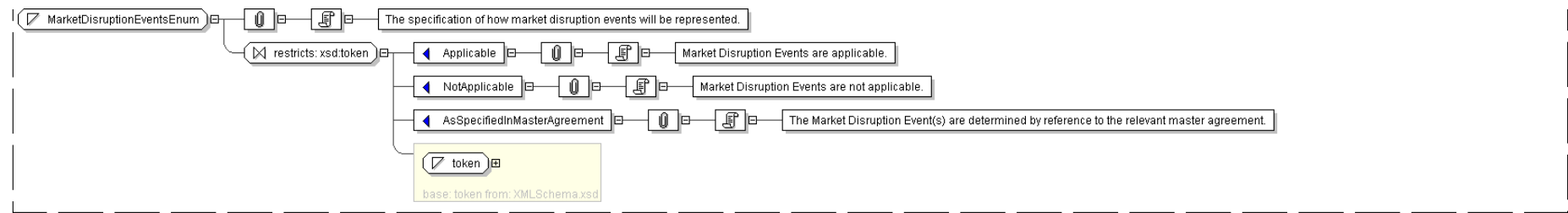
[top](#)

Simple Type: **MarketDisruptionEventsEnum**

Super-types:	<a href="#">xsd:token</a> < <b>MarketDisruptionEventsEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	MarketDisruptionEventsEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Applicable','NotApplicable','AsSpecifiedInMasterAgreement'}</li></ul>
<b>Documentation</b>	The specification of how market disruption events will be represented.





Schema Component Representation

```
<xsd:simpleType name="MarketDisruptionEventsEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Applicable"/>
    <xsd:enumeration value="NotApplicable"/>
    <xsd:enumeration value="AsSpecifiedInMasterAgreement"/>
  </xsd:restriction>
</xsd:simpleType>
```

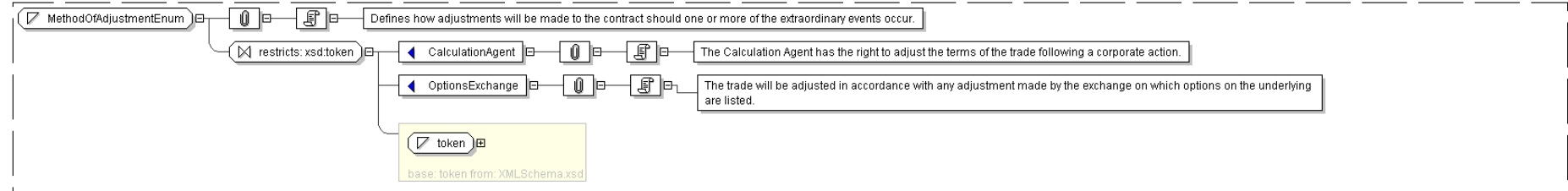
[top](#)

Simple Type: **MethodOfAdjustmentEnum**

Super-types:	<a href="#">xsd:token</a> < <b>MethodOfAdjustmentEnum</b> (by restriction)
Sub-types:	None

Name	MethodOfAdjustmentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {"CalculationAgent","OptionsExchange"}</li></ul>
Documentation	Defines how adjustments will be made to the contract should one or more of the extraordinary events occur.

Diagram



Schema Component Representation

```
<xsd:simpleType name="MethodOfAdjustmentEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="CalculationAgent"/>
    <xsd:enumeration value="OptionsExchange"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **NationalisationOrInsolvencyOrDelistingEventEnum**

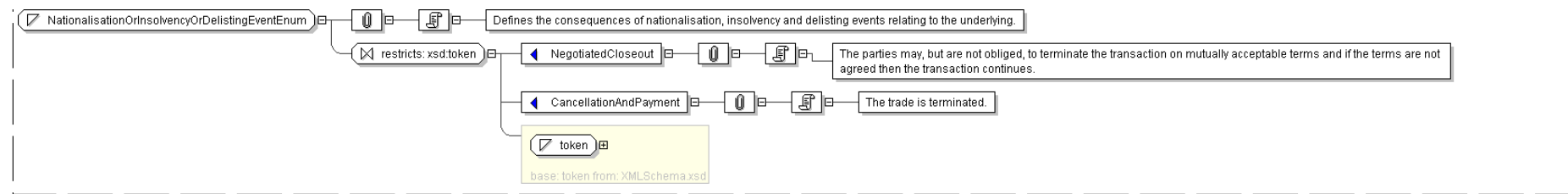
Super-types:	<a href="#">xsd:token</a> < <b>NationalisationOrInsolvencyOrDelistingEventEnum</b> (by restriction)
Sub-types:	None

Name	NationalisationOrInsolvencyOrDelistingEventEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {"NegotiatedCloseout","CancellationAndPayment"}</li></ul>
Documentation	Defines the consequences of nationalisation, insolvency and delisting events relating to the underlying.

Diagram







Schema Component Representation

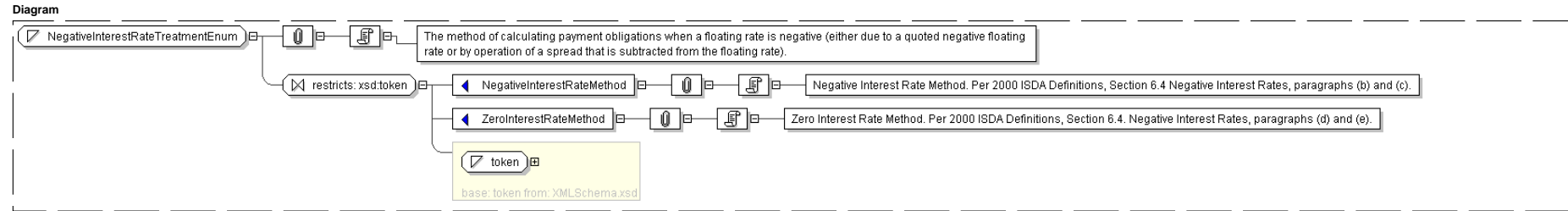
```
<xsd:simpleType name="NationalisationOrInsolvencyOrDelistingEventEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="NegotiatedCloseout"/>
    <xsd:enumeration value="CancellationAndPayment"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **NegativeInterestRateTreatmentEnum**

Super-types:	<a href="#">xsd:token</a> < <b>NegativeInterestRateTreatmentEnum</b> (by restriction)
Sub-types:	None

Name	NegativeInterestRateTreatmentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'NegativeInterestRateMethod','ZeroInterestRateMethod'}</li></ul>
Documentation	The method of calculating payment obligations when a floating rate is negative (either due to a quoted negative floating rate or by operation of a spread that is subtracted from the floating rate).



Schema Component Representation

```
<xsd:simpleType name="NegativeInterestRateTreatmentEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="NegativeInterestRateMethod"/>
    <xsd:enumeration value="ZeroInterestRateMethod"/>
  </xsd:restriction>
</xsd:simpleType>
```

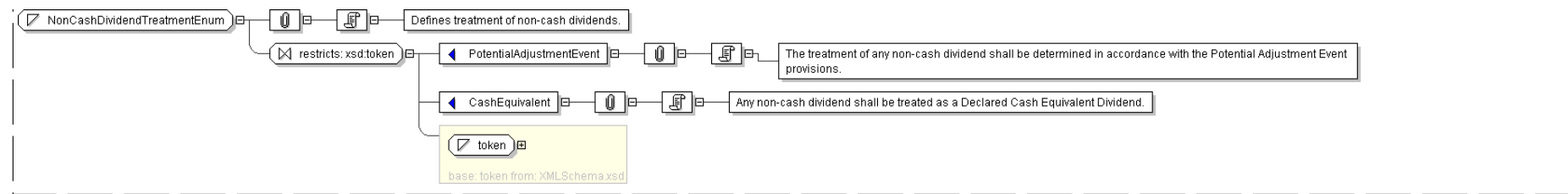
[top](#)

Simple Type: **NonCashDividendTreatmentEnum**

Super-types:	<a href="#">xsd:token</a> < <b>NonCashDividendTreatmentEnum</b> (by restriction)
Sub-types:	None

Name	NonCashDividendTreatmentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'PotentialAdjustmentEvent','CashEquivalent'}</li></ul>
Documentation	Defines treatment of non-cash dividends.





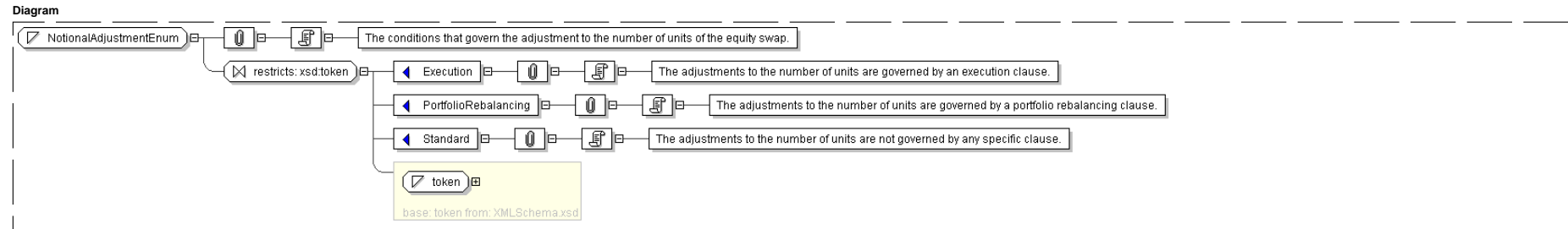
**Schema Component Representation**

```
<xsd:simpleType name="NonCashDividendTreatmentEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="PotentialAdjustmentEvent"/>
    <xsd:enumeration value="CashEquivalent"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **NotionalAdjustmentEnum**

Super-types:	<a href="#">xsd:token</a> < <b>NotionalAdjustmentEnum</b> (by restriction)
Sub-types:	None
Name	NotionalAdjustmentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {Execution PortfolioRebalancing Standard}</li></ul>
Documentation	The conditions that govern the adjustment to the number of units of the equity swap.



**Schema Component Representation**

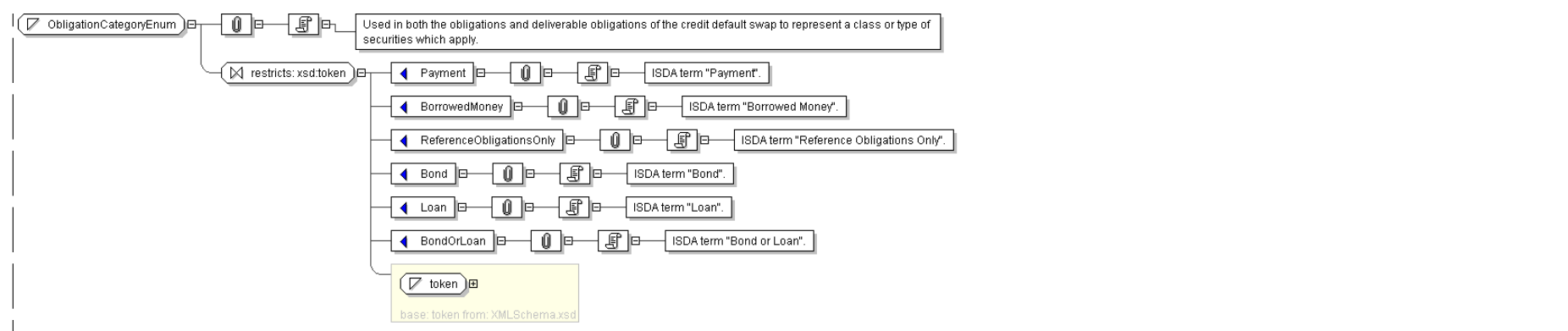
```
<xsd:simpleType name="NotionalAdjustmentEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Execution"/>
    <xsd:enumeration value="PortfolioRebalancing"/>
    <xsd:enumeration value="Standard"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **ObligationCategoryEnum**

Super-types:	<a href="#">xsd:token</a> < <b>ObligationCategoryEnum</b> (by restriction)
Sub-types:	None
Name	ObligationCategoryEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {Payment BorrowedMoney ReferenceObligationsOnly Bond Loan BondOrLoan}</li></ul>
Documentation	Used in both the obligations and deliverable obligations of the credit default swap to represent a class or type of securities which apply.





Schema Component Representation

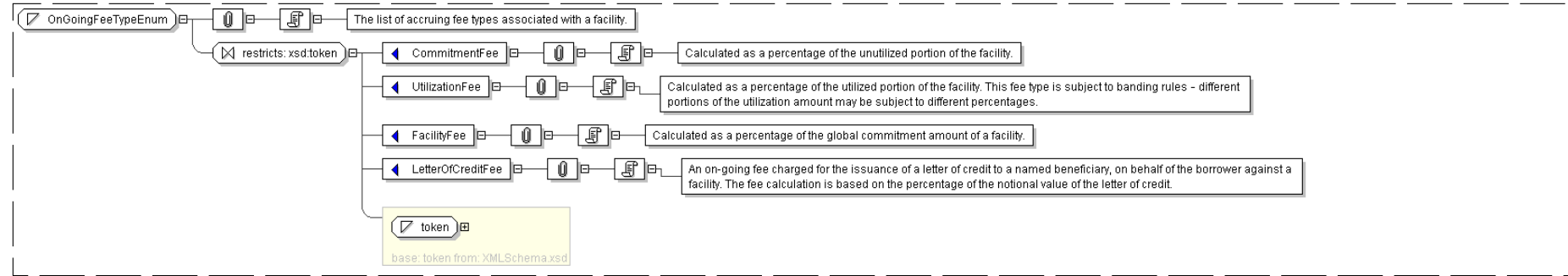
```
<xsd:simpleType name="ObligationCategoryEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Payment"/>
    <xsd:enumeration value="BorrowedMoney"/>
    <xsd:enumeration value="ReferenceObligationsOnly"/>
    <xsd:enumeration value="Bond"/>
    <xsd:enumeration value="Loan"/>
    <xsd:enumeration value="BondOrLoan"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **OnGoingFeeTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>OnGoingFeeTypeEnum</b> (by restriction)
Sub-types:	None
Name	OnGoingFeeTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: ('CommitmentFee','UtilizationFee','FacilityFee','LetterOfCreditFee')</li></ul>
Documentation	The list of accruing fee types associated with a facility.

Diagram



Schema Component Representation

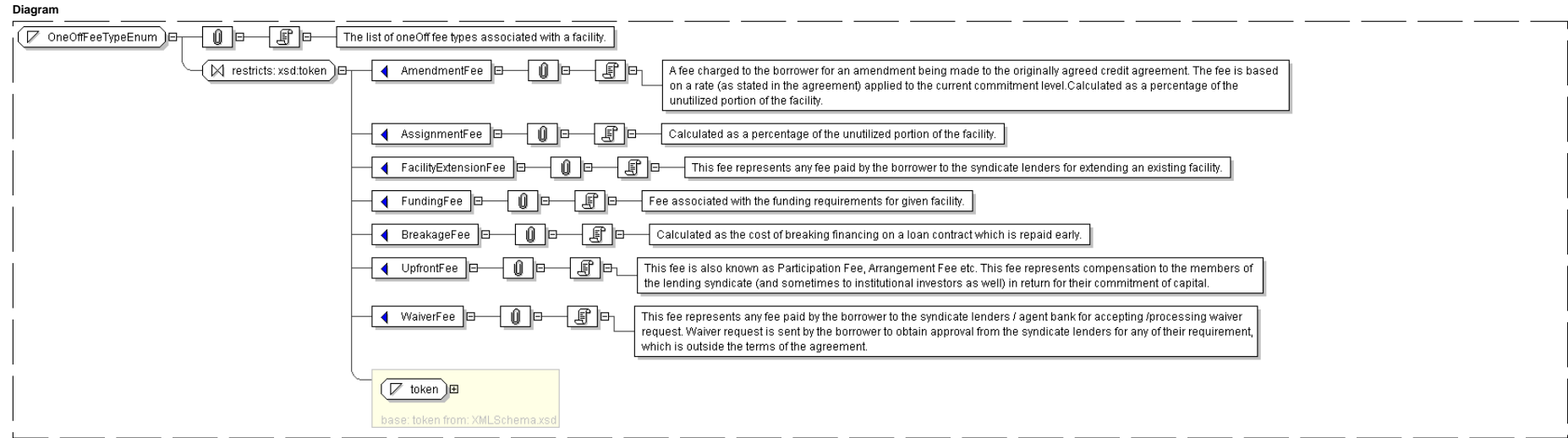
```
<xsd:simpleType name="OnGoingFeeTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="CommitmentFee"/>
    <xsd:enumeration value="UtilizationFee"/>
    <xsd:enumeration value="FacilityFee"/>
    <xsd:enumeration value="LetterOfCreditFee"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **OneOffFeeTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>OneOffFeeTypeEnum</b> (by restriction)
Sub-types:	None

Name	OneOffFeeTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'AmendmentFee','AssignmentFee','FacilityExtensionFee','FundingFee','BreakageFee','UpfrontFee','WaiverFee'}</li></ul>
Documentation	The list of oneOff fee types associated with a facility.



Schema Component Representation	<pre>&lt;xsd:simpleType name="OneOffFeeTypeEnum"&gt;   &lt;xsd:restriction base="xsd:token"&gt;     &lt;xsd:enumeration value="AmendmentFee"/&gt;     &lt;xsd:enumeration value="AssignmentFee"/&gt;     &lt;xsd:enumeration value="FacilityExtensionFee"/&gt;     &lt;xsd:enumeration value="FundingFee"/&gt;     &lt;xsd:enumeration value="BreakageFee"/&gt;     &lt;xsd:enumeration value="UpfrontFee"/&gt;     &lt;xsd:enumeration value="WaiverFee"/&gt;   &lt;/xsd:restriction&gt; &lt;/xsd:simpleType&gt;</pre>
---------------------------------	---

[top](#)

Simple Type: **OptionTypeEnum**

Super-types:	None
Sub-types:	None

Name	OptionTypeEnum
Content	<ul style="list-style-type: none"><li>Union of following types:<ul style="list-style-type: none"><li><a href="#">PutCallEnum</a></li><li>Locally defined type:<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'Forward','Payer','Receiver','Straddle'}</li></ul></li></ul></li></ul>
Documentation	Specifies the type of the option.



Schema Component Representation	<pre>&lt;xsd:simpleType name="OptionTypeEnum"&gt;</pre>
---------------------------------	---

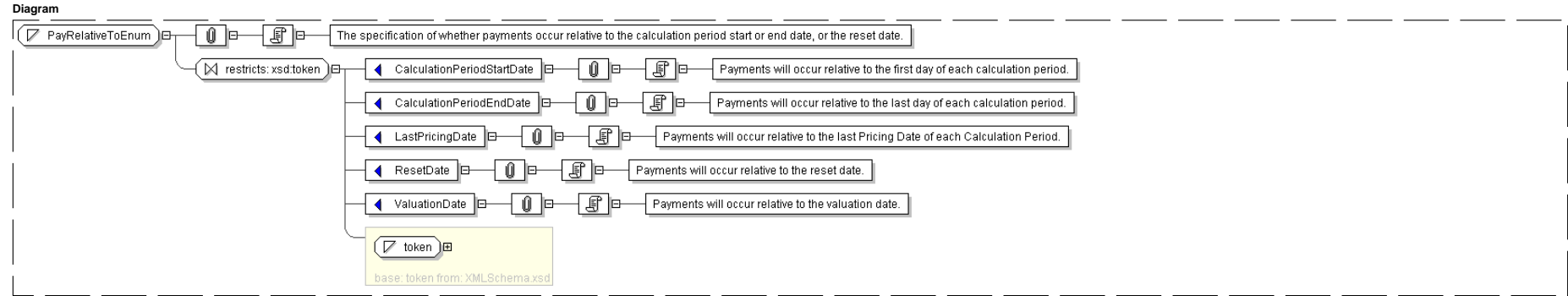
```
<xsd:union memberTypes=" PutCallEnum ">
  <xsd:simpleType>
    <xsd:restriction base=" xsd:token ">
      <xsd:enumeration value="Forward" deprecated="true" deprecatedReason="The optionType is to
        be used if the underlying does not carry any mention of the resulting trade direction."/>
      <xsd:enumeration value="Payer"/>
      <xsd:enumeration value="Receiver"/>
      <xsd:enumeration value="Straddle"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:union>
</xsd:simpleType>
```

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Simple Type: PayRelativeToEnum

Super-types:	<a href="#">xsd:token</a> < <b>PayRelativeToEnum</b> (by restriction)
Sub-types:	None

Name	PayRelativeToEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'CalculationPeriodStartDate','CalculationPeriodEndDate','LastPricingDate','ResetDate','ValuationDate'}</li></ul>
Documentation	The specification of whether payments occur relative to the calculation period start or end date, or the reset date.



Schema Component Representation

```
<xsd:simpleType name="PayRelativeToEnum">
  <xsd:restriction base=" xsd:token ">
    <xsd:enumeration value="CalculationPeriodStartDate"/>
    <xsd:enumeration value="CalculationPeriodEndDate"/>
    <xsd:enumeration value="LastPricingDate"/>
    <xsd:enumeration value="ResetDate"/>
    <xsd:enumeration value="ValuationDate"/>
  </xsd:restriction>
</xsd:simpleType>
```

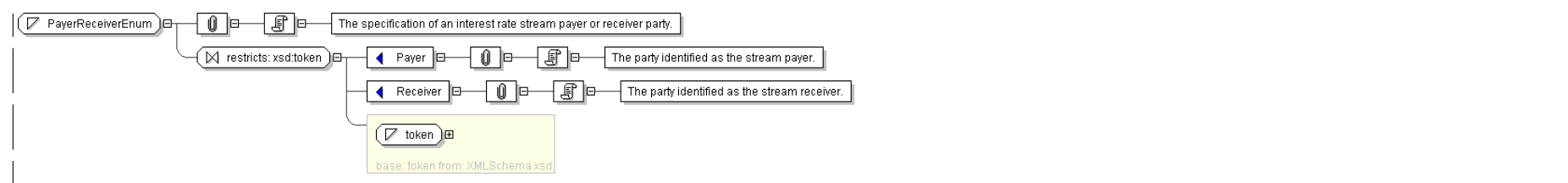
[top](#)

Simple Type: PayerReceiverEnum

Super-types:	<a href="#">xsd:token</a> < <b>PayerReceiverEnum</b> (by restriction)
Sub-types:	None

Name	PayerReceiverEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Payer','Receiver'}</li></ul>
Documentation	The specification of an interest rate stream payer or receiver party.





**Schema Component Representation**

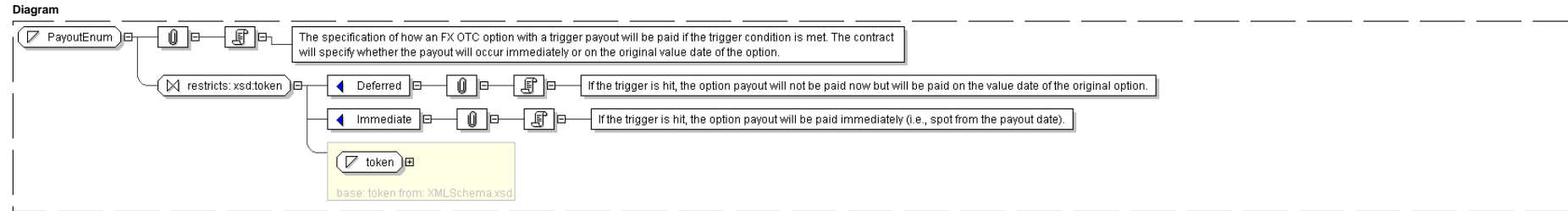
```
<xsd:simpleType name="PayerReceiverEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Payer"/>
    <xsd:enumeration value="Receiver"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **PayoutEnum**

Super-types:	<a href="#">xsd:token</a> < <b>PayoutEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	PayoutEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Deferred','Immediate'}</li></ul>
<b>Documentation</b>	The specification of how an FX OTC option with a trigger payout will be paid if the trigger condition is met. The contract will specify whether the payout will occur immediately or on the original value date of the option.



**Schema Component Representation**

```
<xsd:simpleType name="PayoutEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Deferred"/>
    <xsd:enumeration value="Immediate"/>
  </xsd:restriction>
</xsd:simpleType>
```

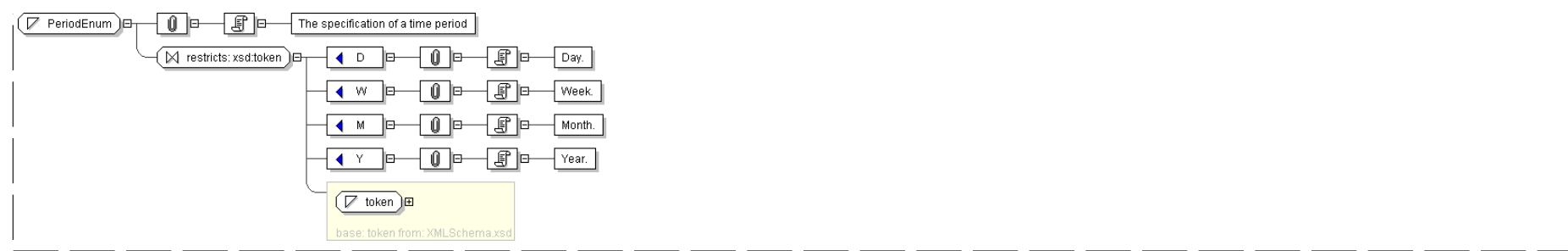
[top](#)

Simple Type: **PeriodEnum**

Super-types:	<a href="#">xsd:token</a> < <b>PeriodEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	PeriodEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'D','W','M','Y'}</li></ul>
<b>Documentation</b>	The specification of a time period





Schema Component Representation

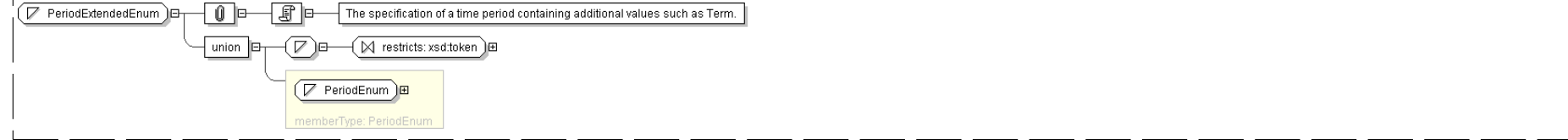
```
<xsd:simpleType name="PeriodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="D"/>
    <xsd:enumeration value="W"/>
    <xsd:enumeration value="M"/>
    <xsd:enumeration value="Y"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **PeriodExtendedEnum**

Super-types:	None
Sub-types:	None
Name	PeriodExtendedEnum
Content	<ul style="list-style-type: none"><li>Union of following types:<ul style="list-style-type: none"><li>PeriodEnum</li><li>Locally defined type:<ul style="list-style-type: none"><li>Base XSD Type: token</li><li>value comes from list: {T}</li></ul></li></ul></li></ul>
Documentation	The specification of a time period containing additional values such as Term.

Diagram



Schema Component Representation

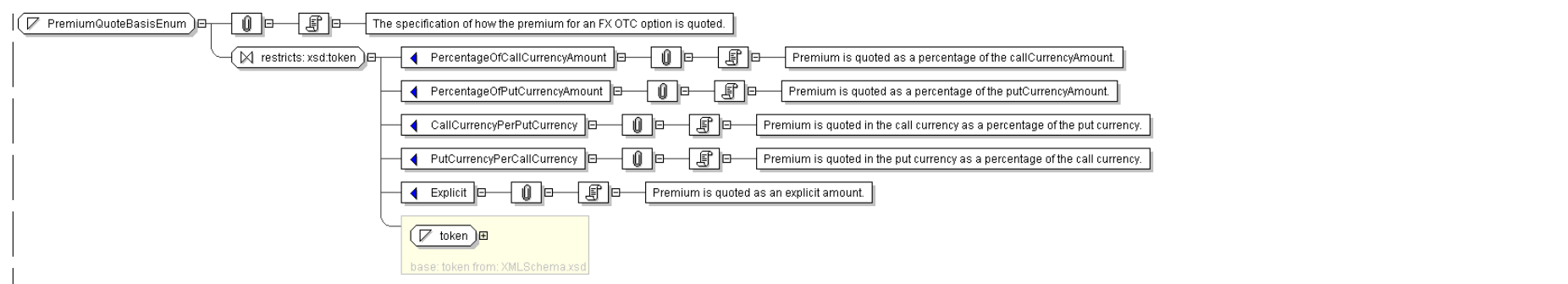
```
<xsd:simpleType name="PeriodExtendedEnum">
  <xsd:union memberTypes="PeriodEnum">
    <xsd:simpleType>
      <xsd:restriction base="xsd:token">
        <xsd:enumeration value="T"/>
      </xsd:restriction>
    </xsd:simpleType>
  </xsd:union>
</xsd:simpleType>
```

[top](#)

Simple Type: **PremiumQuoteBasisEnum**

Super-types:	xsd:token < PremiumQuoteBasisEnum (by restriction)
Sub-types:	None
Name	PremiumQuoteBasisEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li>value comes from list: {PercentageOfCallCurrencyAmount PercentageOfPutCurrencyAmount CallCurrencyPerPutCurrency PutCurrencyPerCallCurrency Explicit}</li></ul>
Documentation	The specification of how the premium for an FX OTC option is quoted.

Diagram



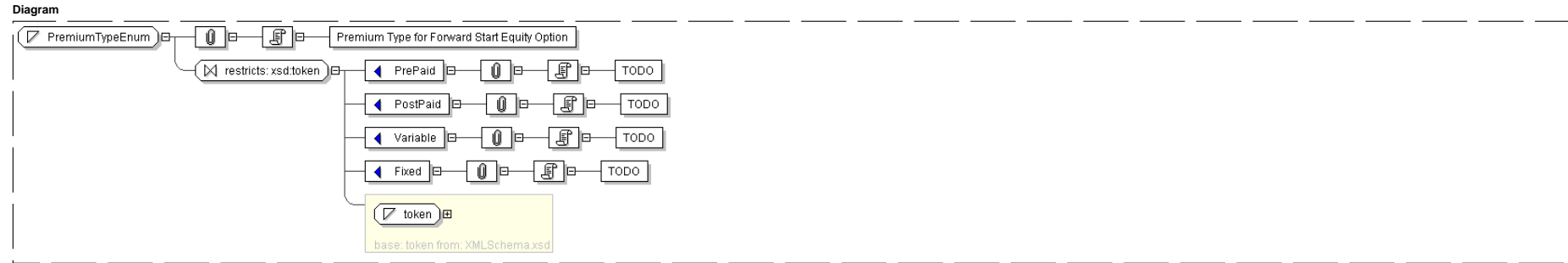
Schema Component Representation

```
<xsd:simpleType name="PremiumQuoteBasisEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="PercentageOfCallCurrencyAmount"/>
    <xsd:enumeration value="PercentageOfPutCurrencyAmount"/>
    <xsd:enumeration value="CallCurrencyPerPutCurrency"/>
    <xsd:enumeration value="PutCurrencyPerCallCurrency"/>
    <xsd:enumeration value="Explicit"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **PremiumTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>PremiumTypeEnum</b> (by restriction)
Sub-types:	None
Name	PremiumTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {PrePaid PostPaid Variable Fixed}</li></ul>
Documentation	Premium Type for Forward Start Equity Option



Schema Component Representation

```
<xsd:simpleType name="PremiumTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="PrePaid"/>
    <xsd:enumeration value="PostPaid"/>
    <xsd:enumeration value="Variable"/>
    <xsd:enumeration value="Fixed"/>
  </xsd:restriction>
</xsd:simpleType>
```

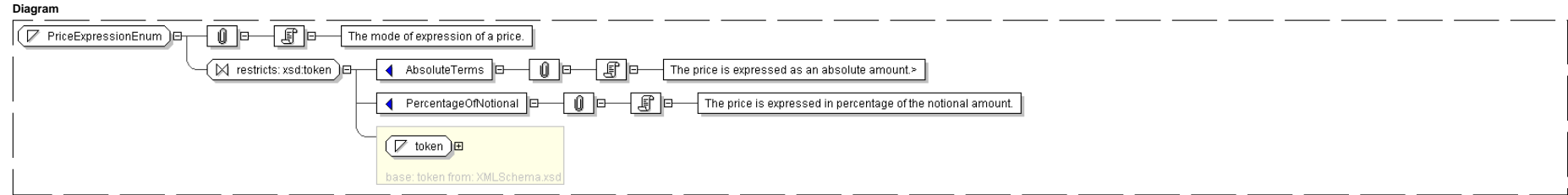
[top](#)

Simple Type: **PriceExpressionEnum**

Super-types:	<a href="#">xsd:token</a> < <b>PriceExpressionEnum</b> (by restriction)
Sub-types:	None
Name	PriceExpressionEnum



Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: ('AbsoluteTerms' 'PercentageOfNotional')</li></ul> <p>The mode of expression of a price.</p>



Schema Component Representation

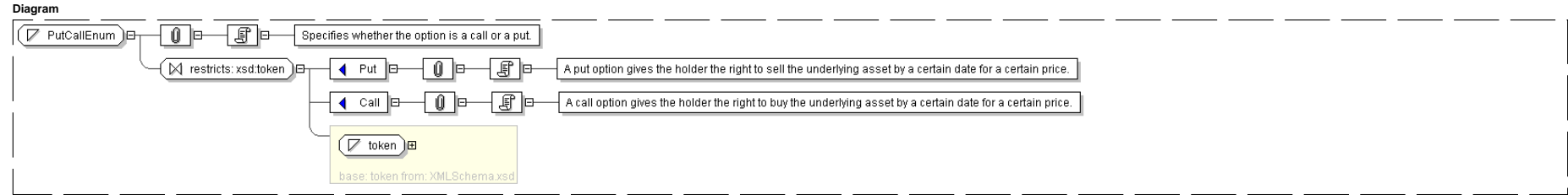
```
<xsd:simpleType name="PriceExpressionEnum">  
  <xsd:restriction base="xsd:token">  
    <xsd:enumeration value="AbsoluteTerms"/>  
    <xsd:enumeration value="PercentageOfNotional"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

[top](#)

Simple Type: **PutCallEnum**

Super-types:	<a href="#">xsd:token</a> < <b>PutCallEnum</b> (by restriction)
Sub-types:	None

Name	PutCallEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: ('Put' 'Call')</li></ul> <p>Specifies whether the option is a call or a put.</p>



Schema Component Representation

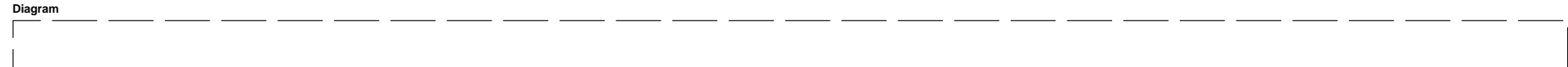
```
<xsd:simpleType name="PutCallEnum">  
  <xsd:restriction base="xsd:token">  
    <xsd:enumeration value="Put"/>  
    <xsd:enumeration value="Call"/>  
  </xsd:restriction>  
</xsd:simpleType>
```

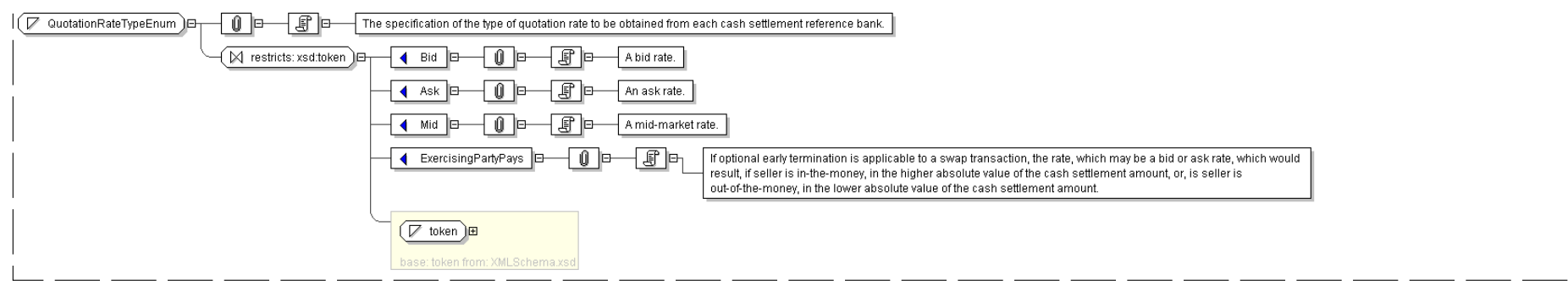
[top](#)

Simple Type: **QuotationRateTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>QuotationRateTypeEnum</b> (by restriction)
Sub-types:	None

Name	QuotationRateTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li></ul>
Documentation	<ul style="list-style-type: none"><li><i>value</i> comes from list: ('Bid' 'Ask' 'Mid' 'ExercisingPartyPays')</li></ul> <p>The specification of the type of quotation rate to be obtained from each cash settlement reference bank.</p>





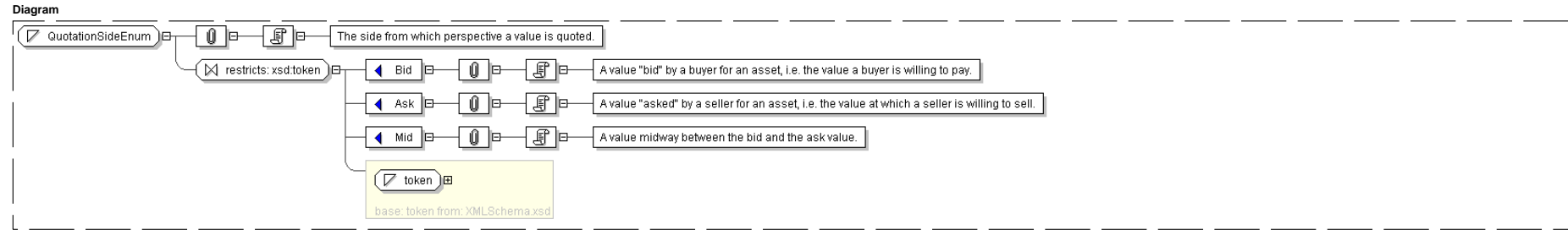
#### Schema Component Representation

```
<xsd:simpleType name="QuotationRateTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Bid"/>
    <xsd:enumeration value="Ask"/>
    <xsd:enumeration value="Mid"/>
    <xsd:enumeration value="ExercisingPartyPays"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

#### Simple Type: QuotationSideEnum

Super-types:	<a href="#">xsd:token</a> < <b>QuotationSideEnum</b> (by restriction)
Sub-types:	None
Name	QuotationSideEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Bid','Ask','Mid'}</li></ul>
Documentation	The side from which perspective a value is quoted.



#### Schema Component Representation

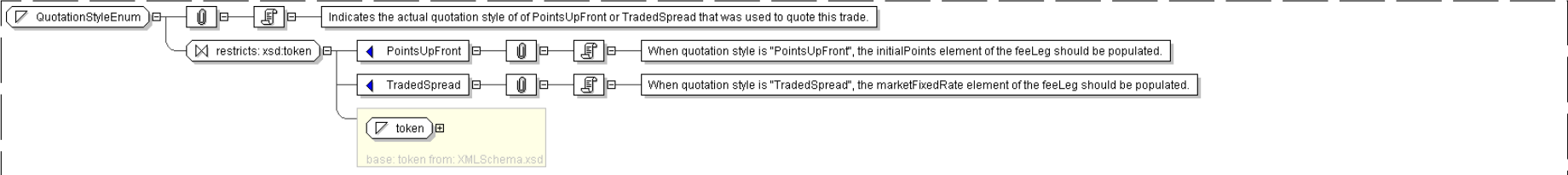
```
<xsd:simpleType name="QuotationSideEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Bid"/>
    <xsd:enumeration value="Ask"/>
    <xsd:enumeration value="Mid"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

#### Simple Type: QuotationStyleEnum

Super-types:	<a href="#">xsd:token</a> < <b>QuotationStyleEnum</b> (by restriction)
Sub-types:	None
Name	QuotationStyleEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'PointsUpFront','TradedSpread'}</li></ul>
Documentation	Indicates the actual quotation style of of PointsUpFront or TradedSpread that was used to quote this trade.

Diagram



Schema Component Representation

```
<xsd:simpleType name="QuotationStyleEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="PointsUpFront"/>
    <xsd:enumeration value="TradedSpread"/>
  </xsd:restriction>
</xsd:simpleType>
```

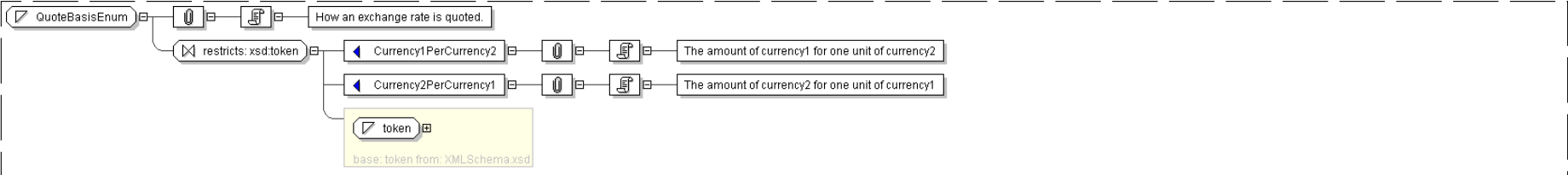
[top](#)

Simple Type: **QuoteBasisEnum**

Super-types:	<a href="#">xsd:token</a> < <b>QuoteBasisEnum</b> (by restriction)
Sub-types:	None

Name	QuoteBasisEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'Currency1PerCurrency2','Currency2PerCurrency1'}</li></ul>
Documentation	How an exchange rate is quoted.

Diagram



Schema Component Representation

```
<xsd:simpleType name="QuoteBasisEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Currency1PerCurrency2"/>
    <xsd:enumeration value="Currency2PerCurrency1"/>
  </xsd:restriction>
</xsd:simpleType>
```

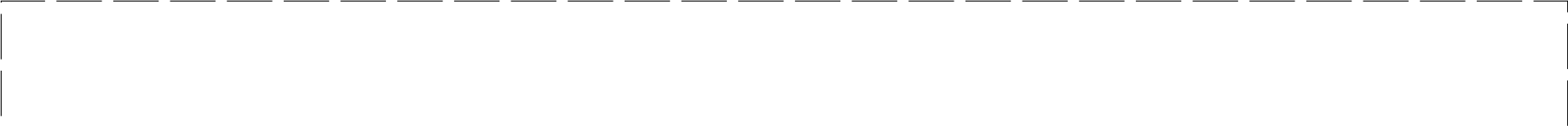
[top](#)

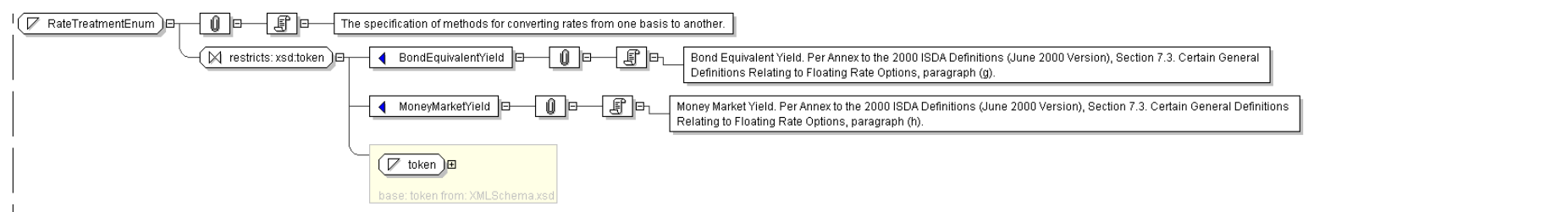
Simple Type: **RateTreatmentEnum**

Super-types:	<a href="#">xsd:token</a> < <b>RateTreatmentEnum</b> (by restriction)
Sub-types:	None

Name	RateTreatmentEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'BondEquivalentYield','MoneyMarketYield'}</li></ul>
Documentation	The specification of methods for converting rates from one basis to another.

Diagram





Schema Component Representation

```
<xsd:simpleType name="RateTreatmentEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="BondEquivalentYield"/>
    <xsd:enumeration value="MoneyMarketYield"/>
  </xsd:restriction>
</xsd:simpleType>
```

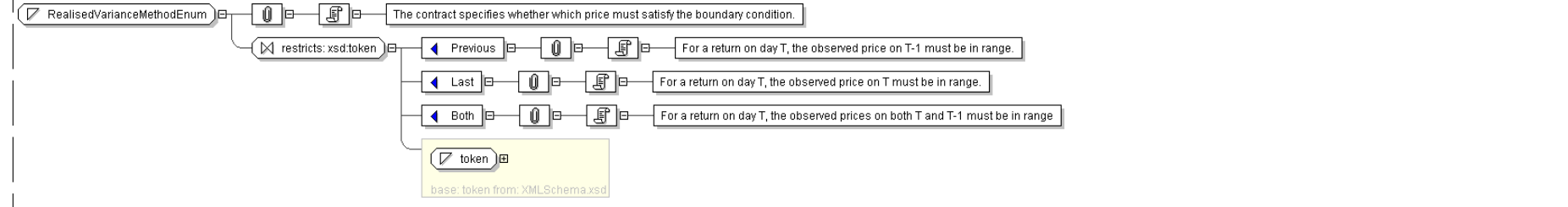
[top](#)

Simple Type: **RealisedVarianceMethodEnum**

Super-types:	<a href="#">xsd:token</a> < <b>RealisedVarianceMethodEnum</b> (by restriction)
Sub-types:	None

Name	RealisedVarianceMethodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Previous','Last','Both'}</li></ul>
Documentation	The contract specifies whether which price must satisfy the boundary condition.

Diagram



Schema Component Representation

```
<xsd:simpleType name="RealisedVarianceMethodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Previous"/>
    <xsd:enumeration value="Last"/>
    <xsd:enumeration value="Both"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

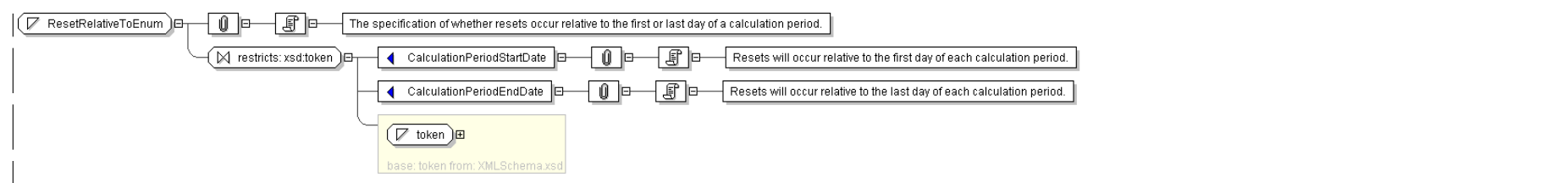
Simple Type: **ResetRelativeToEnum**

Super-types:	<a href="#">xsd:token</a> < <b>ResetRelativeToEnum</b> (by restriction)
Sub-types:	None

Name	ResetRelativeToEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'CalculationPeriodStartDate','CalculationPeriodEndDate'}</li></ul>
Documentation	The specification of whether resets occur relative to the first or last day of a calculation period.

Diagram





**Schema Component Representation**

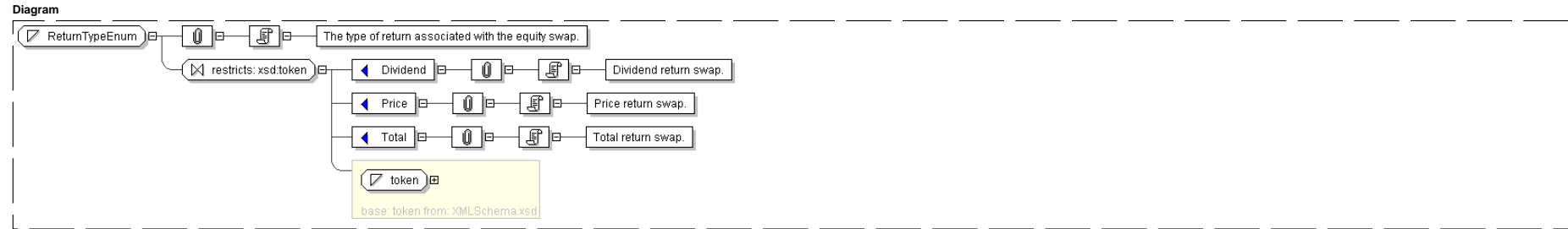
```
<xsd:simpleType name="ResetRelativeToEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="CalculationPeriodStartDate"/>
    <xsd:enumeration value="CalculationPeriodEndDate"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **ReturnTypeEnum**

Super-types:	xsd:token < <b>ReturnTypeEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	ReturnTypeEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Dividend','Price','Total'}</li></ul>
<b>Documentation</b>	The type of return associated with the equity swap.



**Schema Component Representation**

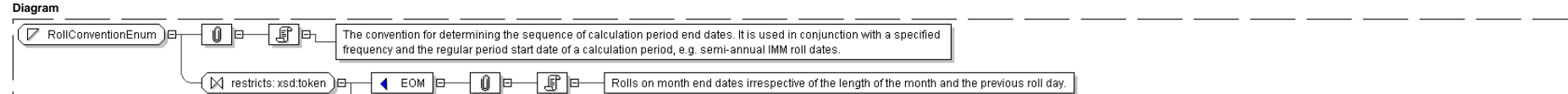
```
<xsd:simpleType name="ReturnTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Dividend"/>
    <xsd:enumeration value="Price"/>
    <xsd:enumeration value="Total"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

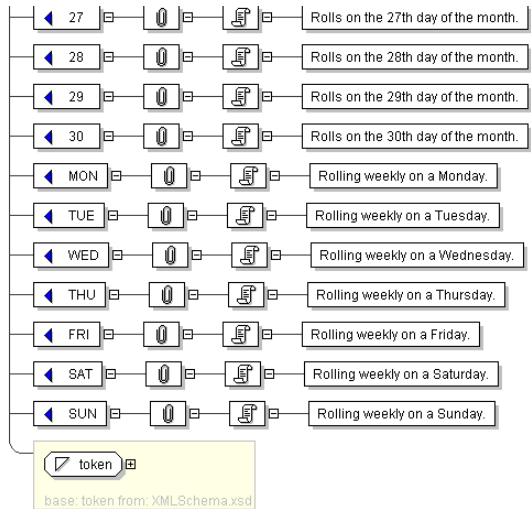
Simple Type: **RollConventionEnum**

Super-types:	xsd:token < <b>RollConventionEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	RollConventionEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'EOM','FRN','IMM','IMMCAD','IMMAUD','IMMNZD','SFE','NONE','TBILL','1','2','3','4','5','6','7','8','9','10','11','12','13','14','15','16','17','18','19','20','21','22','23','24','25','26','27','28','29','30','MON','TUE','WED','THU','FRI','SAT','SUN'}</li></ul>
<b>Documentation</b>	The convention for determining the sequence of calculation period end dates. It is used in conjunction with a specified frequency and the regular period start date of a calculation period, e.g. semi-annual IMM roll dates.



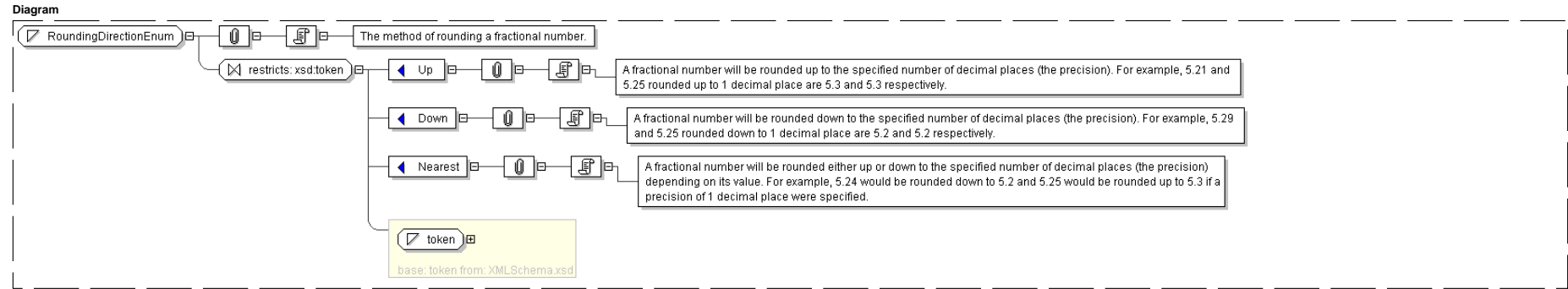
FRN	0	FP	Roll days are determined according to the FRN Convention or Eurodollar Convention as described in ISDA 2000 definitions.
IMM	0	FP	IMM Settlement Dates. The third Wednesday of the (delivery) month.
IMMCAD	0	FP	The last trading day/expiration day of the Canadian Derivatives Exchange (Bourse de Montreal Inc) Three-month Canadian Bankers' Acceptance Futures (Ticker Symbol BAX). The second London banking day prior to the third Wednesday of the contract month. If the determined day is a Bourse or bank holiday in Montreal or Toronto, the last trading day shall be the previous bank business day. Per Canadian Derivatives Exchange BAX contract specification.
IMMAUD	0	FP	The last trading day of the Sydney Futures Exchange 90 Day Bank Accepted Bills Futures contract (see <a href="http://www.sfe.com.au/content/sfe/trading/con_specs.pdf">http://www.sfe.com.au/content/sfe/trading/con_specs.pdf</a> ). One Sydney business day preceding the second Friday of the relevant settlement month.
IMMNZD	0	FP	The last trading day of the Sydney Futures Exchange NZ 90 Day Bank Bill Futures contract (see <a href="http://www.sfe.com.au/content/sfe/trading/con_specs.pdf">http://www.sfe.com.au/content/sfe/trading/con_specs.pdf</a> ). The first Wednesday after the ninth day of the relevant settlement month.
SFE	0	FP	Sydney Futures Exchange 90-Day Bank Accepted Bill Futures Settlement Dates. The second Friday of the (delivery) month.
NONE	0	FP	The roll convention is not required. For example, in the case of a daily calculation frequency.
TBILL	0	FP	13-week and 26-week U.S. Treasury Bill Auction Dates. Each Monday except for U.S. (New York) holidays when it will occur on a Tuesday.
1	0	FP	Rolls on the 1st day of the month.
2	0	FP	Rolls on the 2nd day of the month.
3	0	FP	Rolls on the 3rd day of the month.
4	0	FP	Rolls on the 4th day of the month.
5	0	FP	Rolls on the 4th day of the month.
6	0	FP	Rolls on the 6th day of the month.
7	0	FP	Rolls on the 7th day of the month.
8	0	FP	Rolls on the 8th day of the month.
9	0	FP	Rolls on the 9th day of the month.
10	0	FP	Rolls on the 10th day of the month.
11	0	FP	Rolls on the 11th day of the month.
12	0	FP	Rolls on the 12th day of the month.
13	0	FP	Rolls on the 13th day of the month.
14	0	FP	Rolls on the 14th day of the month.
15	0	FP	Rolls on the 15th day of the month.
16	0	FP	Rolls on the 16th day of the month.
17	0	FP	Rolls on the 17th day of the month.
18	0	FP	Rolls on the 18th day of the month.
19	0	FP	Rolls on the 19th day of the month.
20	0	FP	Rolls on the 20th day of the month.
21	0	FP	Rolls on the 21st day of the month.
22	0	FP	Rolls on the 22nd day of the month.
23	0	FP	Rolls on the 23rd day of the month.
24	0	FP	Rolls on the 24th day of the month.
25	0	FP	Rolls on the 25th day of the month.
26	0	FP	Rolls on the 26th day of the month.



Schema Component Representation

```
<xsd:simpleType name="RollConventionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="EOM"/>
    <xsd:enumeration value="FRN"/>
    <xsd:enumeration value="IMM"/>
    <xsd:enumeration value="IMMCAD"/>
    <xsd:enumeration value="IMMAUD"/>
    <xsd:enumeration value="IMMNZD"/>
    <xsd:enumeration value="SFE"/>
    <xsd:enumeration value="NONE"/>
    <xsd:enumeration value="TBILL"/>
    <xsd:enumeration value="1"/>
    <xsd:enumeration value="2"/>
    <xsd:enumeration value="3"/>
    <xsd:enumeration value="4"/>
    <xsd:enumeration value="5"/>
    <xsd:enumeration value="6"/>
    <xsd:enumeration value="7"/>
    <xsd:enumeration value="8"/>
    <xsd:enumeration value="9"/>
    <xsd:enumeration value="10"/>
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    <xsd:enumeration value="28"/>
    <xsd:enumeration value="29"/>
    <xsd:enumeration value="30"/>
    <xsd:enumeration value="MON"/>
    <xsd:enumeration value="TUE"/>
    <xsd:enumeration value="WED"/>
    <xsd:enumeration value="THU"/>
    <xsd:enumeration value="FRI"/>
    <xsd:enumeration value="SAT"/>
    <xsd:enumeration value="SUN"/>
  </xsd:restriction>
</xsd:simpleType>
```

Super-types:	<a href="#">xsd:token</a> < <b>RoundingDirectionEnum</b> (by restriction)
Sub-types:	None
Name	RoundingDirectionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Up','Down','Nearest'}</li></ul>
Documentation	The method of rounding a fractional number.

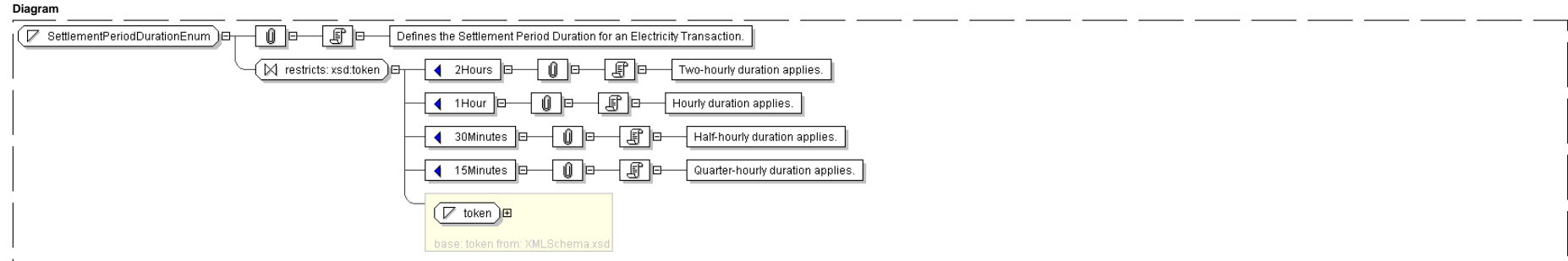


Schema Component Representation	<pre>&lt;xsd:simpleType name="RoundingDirectionEnum"&gt;   &lt;xsd:restriction base="xsd:token"&gt;     &lt;xsd:enumeration value="Up"/&gt;     &lt;xsd:enumeration value="Down"/&gt;     &lt;xsd:enumeration value="Nearest"/&gt;   &lt;/xsd:restriction&gt; &lt;/xsd:simpleType&gt;</pre>
---------------------------------	---

[top](#)

Simple Type: **SettlementPeriodDurationEnum**

Super-types:	<a href="#">xsd:token</a> < <b>SettlementPeriodDurationEnum</b> (by restriction)
Sub-types:	None
Name	SettlementPeriodDurationEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'2Hours','1Hour','30Minutes','15Minutes'}</li></ul>
Documentation	Defines the Settlement Period Duration for an Electricity Transaction.



Schema Component Representation	<pre>&lt;xsd:simpleType name="SettlementPeriodDurationEnum"&gt;   &lt;xsd:restriction base="xsd:token"&gt;     &lt;xsd:enumeration value="2Hours"/&gt;     &lt;xsd:enumeration value="1Hour"/&gt;     &lt;xsd:enumeration value="30Minutes"/&gt;     &lt;xsd:enumeration value="15Minutes"/&gt;   &lt;/xsd:restriction&gt; &lt;/xsd:simpleType&gt;</pre>
---------------------------------	--

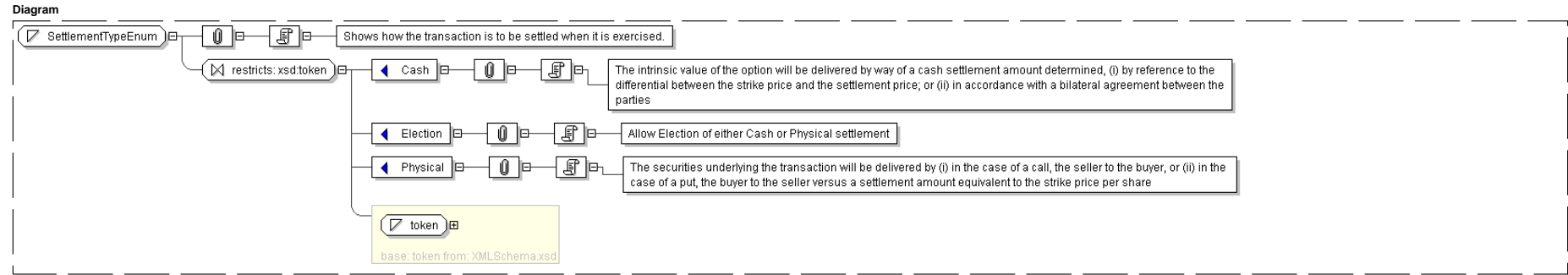
[top](#)



Simple Type: **SettlementTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>SettlementTypeEnum</b> (by restriction)
Sub-types:	None

Name	SettlementTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'Cash','Election','Physical'}</li></ul>
Documentation	Shows how the transaction is to be settled when it is exercised.



Schema Component Representation

```
<xsd:simpleType name="SettlementTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Cash"/>
    <xsd:enumeration value="Election"/>
    <xsd:enumeration value="Physical"/>
  </xsd:restriction>
</xsd:simpleType>
```

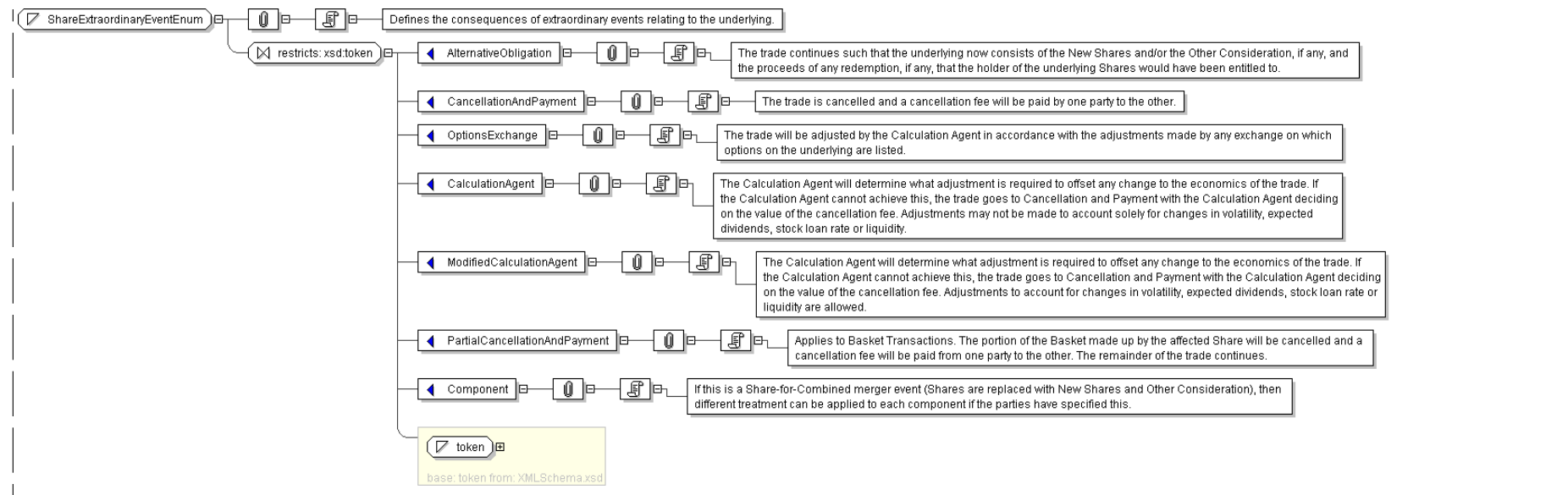
[top](#)

Simple Type: **ShareExtraordinaryEventEnum**

Super-types:	<a href="#">xsd:token</a> < <b>ShareExtraordinaryEventEnum</b> (by restriction)
Sub-types:	None

Name	ShareExtraordinaryEventEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {'AlternativeObligation','CancellationAndPayment','OptionsExchange','CalculationAgent','ModifiedCalculationAgent','PartialCancellationAndPayment','Component'}</li></ul>
Documentation	Defines the consequences of extraordinary events relating to the underlying.





Schema Component Representation

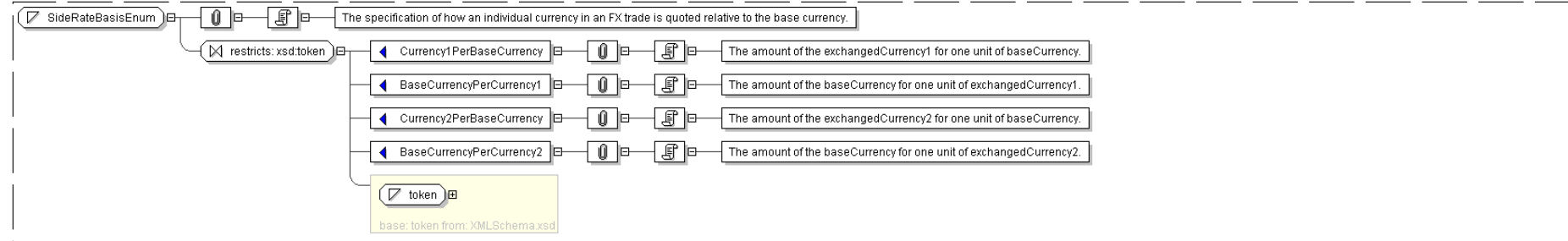
```
<xsd:simpleType name="ShareExtraordinaryEventEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="AlternativeObligation"/>
    <xsd:enumeration value="CancellationAndPayment"/>
    <xsd:enumeration value="OptionsExchange"/>
    <xsd:enumeration value="CalculationAgent"/>
    <xsd:enumeration value="ModifiedCalculationAgent"/>
    <xsd:enumeration value="PartialCancellationAndPayment"/>
    <xsd:enumeration value="Component"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **SideRateBasisEnum**

Super-types:	<a href="#">xsd:token</a> < <b>SideRateBasisEnum</b> (by restriction)
Sub-types:	None
Name	SideRateBasisEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {Currency1PerBaseCurrency["BaseCurrencyPerCurrency1"]Currency2PerBaseCurrency["BaseCurrencyPerCurrency2"]}</li></ul>
Documentation	The specification of how an individual currency in an FX trade is quoted relative to the base currency.

Diagram



Schema Component Representation

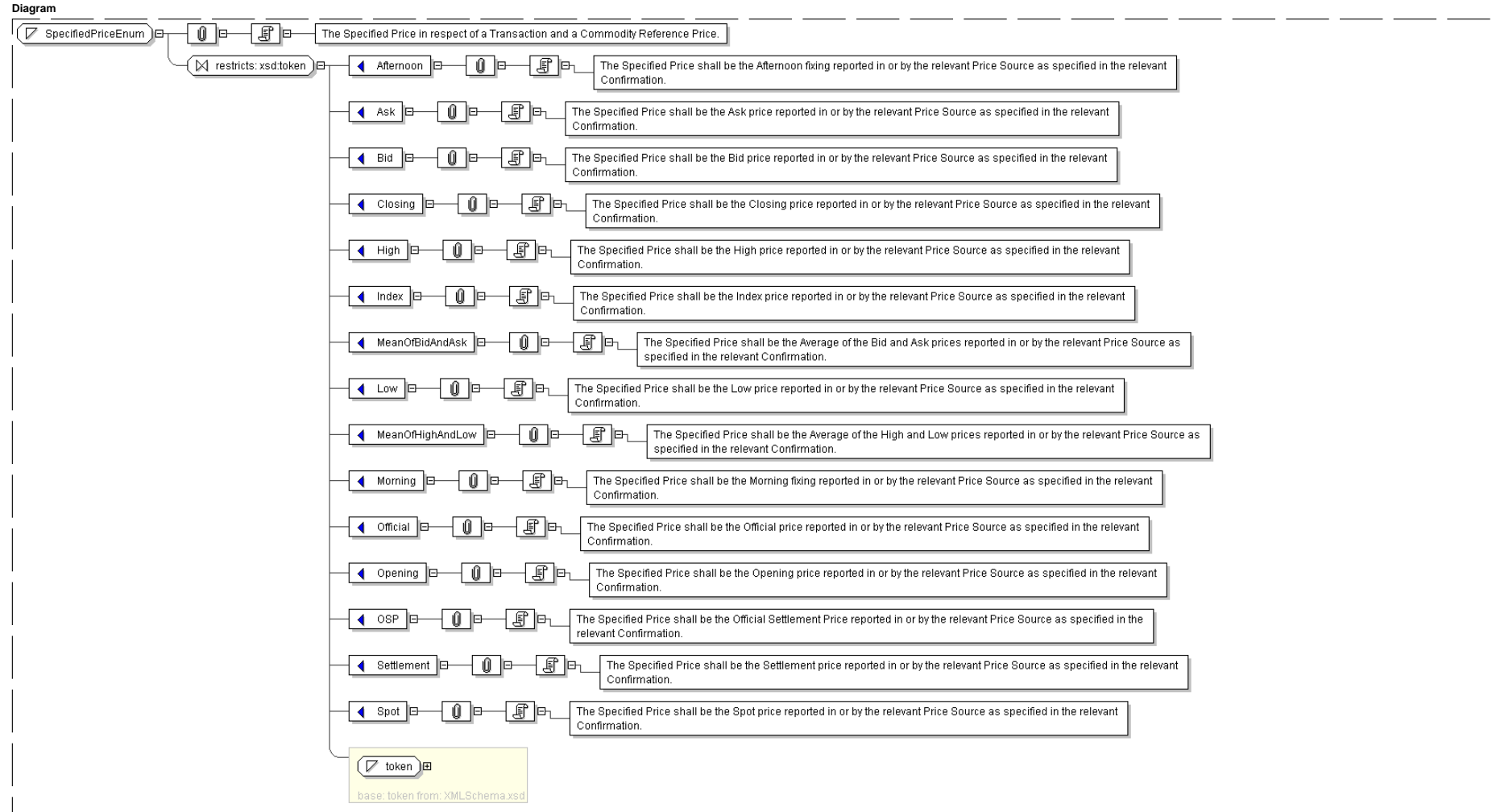
```
<xsd:simpleType name="SideRateBasisEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Currency1PerBaseCurrency"/>
    <xsd:enumeration value="BaseCurrencyPerCurrency1"/>
    <xsd:enumeration value="Currency2PerBaseCurrency"/>
    <xsd:enumeration value="BaseCurrencyPerCurrency2"/>
  </xsd:restriction>
</xsd:simpleType>
```

```
<xsd:enumeration value="Currency2PerBaseCurrency" />
<xsd:enumeration value="BaseCurrencyPerCurrency2" />
</xsd:restriction>
</xsd:simpleType>
```

Simple Type: SpecifiedPriceEnum

Super-types:	<a href="#">xsd:token</a> < <b>SpecifiedPriceEnum</b> (by restriction)
Sub-types:	None

Name	SpecifiedPriceEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {Afternoon Ask Bid Closing High Index MeanOfBidAndAsk Low MeanOfHighAndLow Morning Official Opening OSP Settlement Spot}</li></ul>
Documentation	The Specified Price in respect of a Transaction and a Commodity Reference Price.



Schema Component Representation

```
<xsd:simpleType name="SpecifiedPriceEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Afternoon"/>
    <xsd:enumeration value="Ask"/>
    <xsd:enumeration value="Bid"/>
```

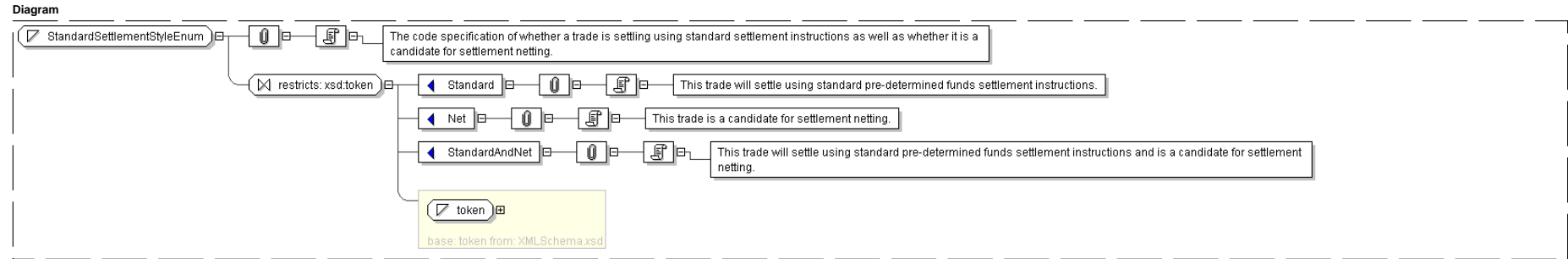
```
<xsd:enumeration value="Closing"/>
<xsd:enumeration value="High"/>
<xsd:enumeration value="Index"/>
<xsd:enumeration value="MeanOfBidAndAsk"/>
<xsd:enumeration value="Low"/>
<xsd:enumeration value="MeanOfHighAndLow"/>
<xsd:enumeration value="Morning"/>
<xsd:enumeration value="Official"/>
<xsd:enumeration value="Opening"/>
<xsd:enumeration value="OSP"/>
<xsd:enumeration value="Settlement"/>
<xsd:enumeration value="Spot"/>
</xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **StandardSettlementStyleEnum**

Super-types:	<a href="#">xsd:token</a> < <b>StandardSettlementStyleEnum</b> (by restriction)
Sub-types:	None

Name	StandardSettlementStyleEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('Standard','Net','StandardAndNet')</li></ul>
Documentation	The code specification of whether a trade is settling using standard settlement instructions as well as whether it is a candidate for settlement netting.



Schema Component Representation

```
<xsd:simpleType name="StandardSettlementStyleEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Standard"/>
    <xsd:enumeration value="Net"/>
    <xsd:enumeration value="StandardAndNet"/>
  </xsd:restriction>
</xsd:simpleType>
```

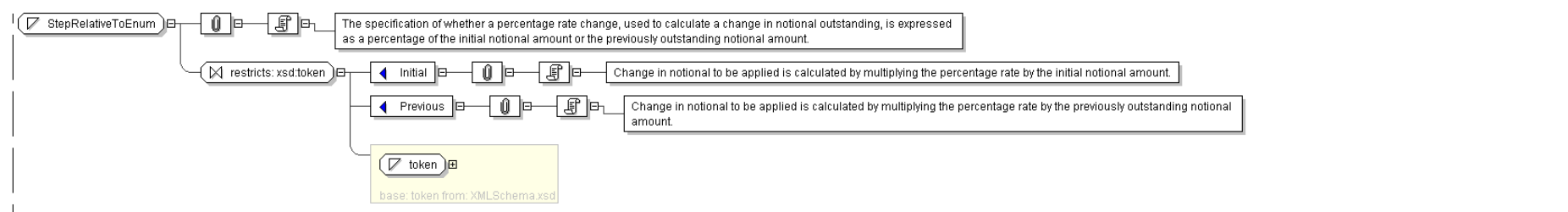
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Simple Type: **StepRelativeToEnum**

Super-types:	<a href="#">xsd:token</a> < <b>StepRelativeToEnum</b> (by restriction)
Sub-types:	None

Name	StepRelativeToEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: ('Initial','Previous')</li></ul>
Documentation	The specification of whether a percentage rate change, used to calculate a change in notional outstanding, is expressed as a percentage of the initial notional amount or the previously outstanding notional amount.





**Schema Component Representation**

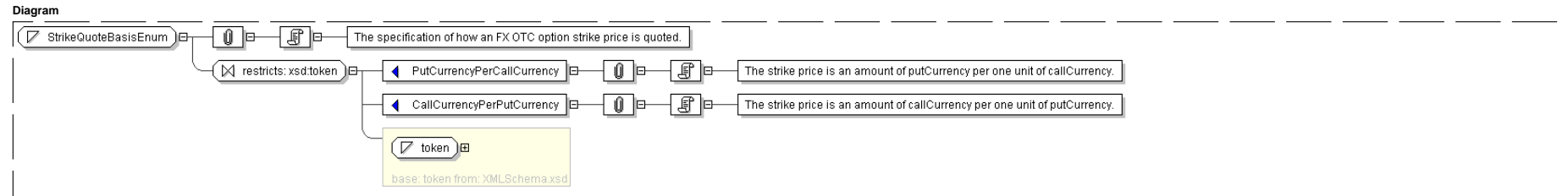
```
<xsd:simpleType name="StepRelativeToEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Initial"/>
    <xsd:enumeration value="Previous"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

**Simple Type: StrikeQuoteBasisEnum**

Super-types:	<a href="#">xsd:token</a> < <b>StrikeQuoteBasisEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	StrikeQuoteBasisEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'PutCurrencyPerCallCurrency','CallCurrencyPerPutCurrency'}</li></ul>
<b>Documentation</b>	The specification of how an FX OTC option strike price is quoted.



**Schema Component Representation**

```
<xsd:simpleType name="StrikeQuoteBasisEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="PutCurrencyPerCallCurrency"/>
    <xsd:enumeration value="CallCurrencyPerPutCurrency"/>
  </xsd:restriction>
</xsd:simpleType>
```

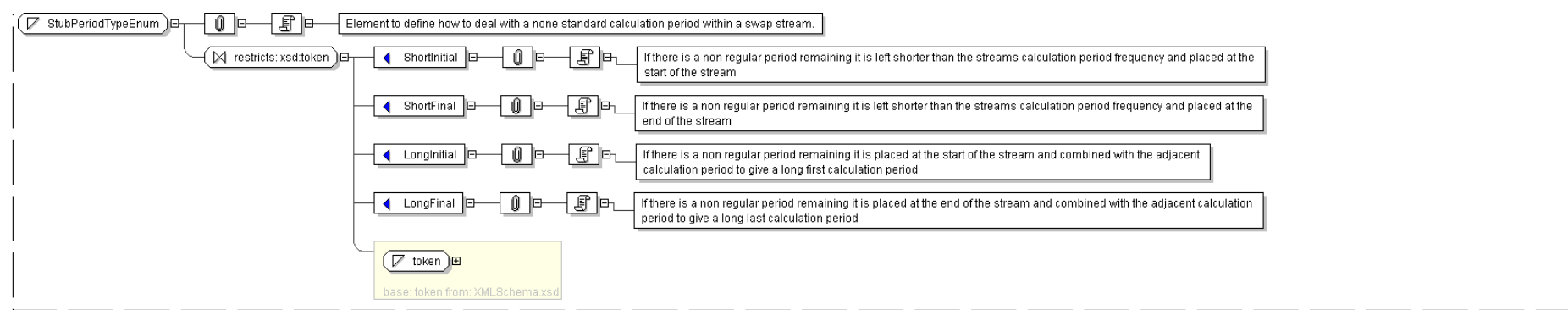
[top](#)

**Simple Type: StubPeriodTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>StubPeriodTypeEnum</b> (by restriction)
Sub-types:	None

<b>Name</b>	StubPeriodTypeEnum
<b>Content</b>	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'ShortInitial','ShortFinal','LongInitial','LongFinal'}</li></ul>
<b>Documentation</b>	Element to define how to deal with a none standard calculation period within a swap stream.





Schema Component Representation

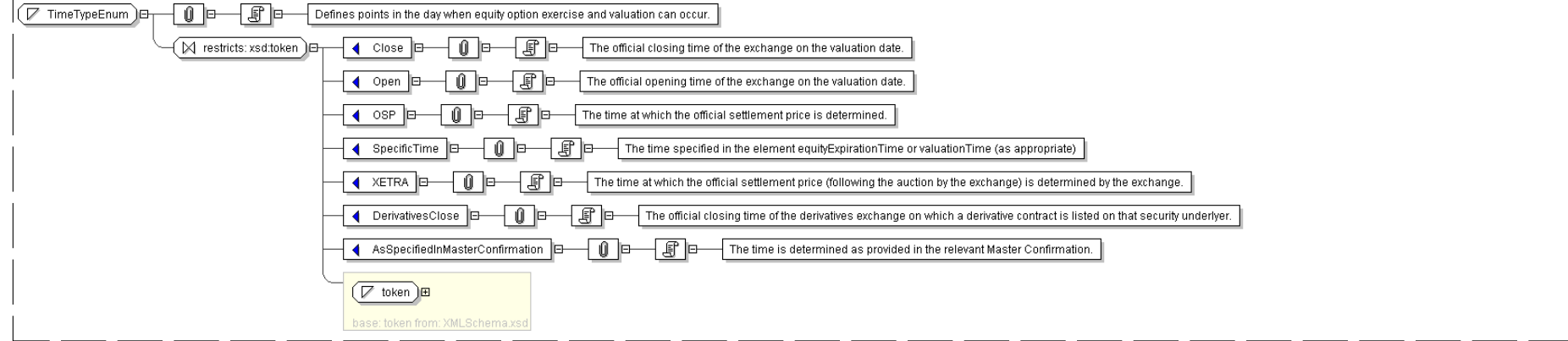
```
<xsd:simpleType name="StubPeriodTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="ShortInitial"/>
    <xsd:enumeration value="ShortFinal"/>
    <xsd:enumeration value="LongInitial"/>
    <xsd:enumeration value="LongFinal"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **TimeTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>TimeTypeEnum</b> (by restriction)
Sub-types:	None
Name	TimeTypeEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><b>value</b> comes from list: {'Close','Open','OSP','SpecificTime','XETRA','DerivativesClose','AsSpecifiedInMasterConfirmation'}</li></ul>
Documentation	Defines points in the day when equity option exercise and valuation can occur.

Diagram



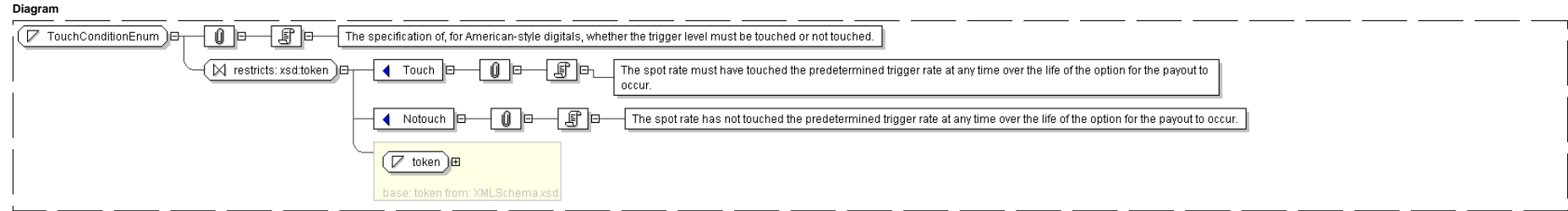
Schema Component Representation

```
<xsd:simpleType name="TimeTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Close"/>
    <xsd:enumeration value="Open"/>
    <xsd:enumeration value="OSP"/>
    <xsd:enumeration value="SpecificTime"/>
    <xsd:enumeration value="XETRA"/>
    <xsd:enumeration value="DerivativesClose"/>
    <xsd:enumeration value="AsSpecifiedInMasterConfirmation"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **TouchConditionEnum**

Super-types:	<a href="#">xsd:token</a> < <b>TouchConditionEnum</b> (by restriction)
Sub-types:	None

Name	TouchConditionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {Touch Notouch}</li></ul>
Documentation	The specification of, for American-style digitals, whether the trigger level must be touched or not touched.



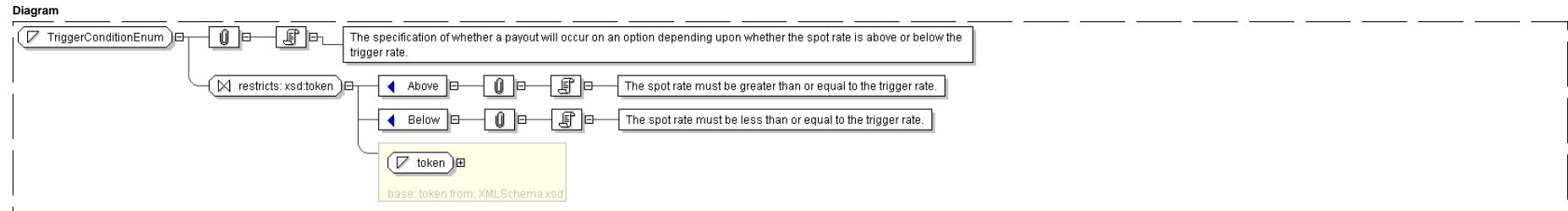
Schema Component Representation

```
<xsd:simpleType name="TouchConditionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Touch"/>
    <xsd:enumeration value="Notouch"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **TriggerConditionEnum**

Super-types:	<a href="#">xsd:token</a> < <b>TriggerConditionEnum</b> (by restriction)
Sub-types:	None

Name	TriggerConditionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {Above Below}</li></ul>
Documentation	The specification of whether a payout will occur on an option depending upon whether the spot rate is above or below the trigger rate.



Schema Component Representation

```
<xsd:simpleType name="TriggerConditionEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Above"/>
    <xsd:enumeration value="Below"/>
  </xsd:restriction>
</xsd:simpleType>
```

Simple Type: **TriggerTimeTypeEnum**

Super-types:	<a href="#">xsd:token</a> < <b>TriggerTimeTypeEnum</b> (by restriction)
--------------	---

Sub-types:

None

Name

TriggerTimeTypeEnum

Content

- Base XSD Type: token
- value* comes from list: {'Closing','Anytime'}

Documentation

The time of day which would be considered for valuing the knock event.

Diagram

The diagram illustrates the structure of the `TriggerTimeTypeEnum` simple type. It is derived from the `xsd:token` base type via a restriction. The restriction is labeled "restricts: xsd:token". The enumeration values are `Closing` and `Anytime`. The `Closing` value is described as "The close of trading on a day would be considered for valuation." The `Anytime` value is described as "At any time during the Knock Determination period (continuous barrier)." A base token is also shown, labeled "token", with the note "base: token from: XMLSchema.xsd".

Schema Component Representation

```
<xsd:simpleType name="TriggerTimeTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Closing"/>
    <xsd:enumeration value="Anytime"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **TriggerTypeEnum**

Super-types:

[xsd:token](#) < **TriggerTypeEnum** (by restriction)

Sub-types:

None

Name

TriggerTypeEnum

Content

- Base XSD Type: token
- value* comes from list: {'EqualOrLess','EqualOrGreater','Equal','Less','Greater'}

Documentation

The specification of whether an option would trigger or expire depending upon whether the spot rate is above or below the barrier rate.

Diagram

The diagram illustrates the structure of the `TriggerTypeEnum` simple type. It is derived from the `xsd:token` base type via a restriction. The restriction is labeled "restricts: xsd:token". The enumeration values are `EqualOrLess`, `EqualOrGreater`, `Equal`, `Less`, and `Greater`. Each value is described with a sentence: "The underlier price must be equal to or less than the Trigger level.", "The underlier price must be equal to or greater than the Trigger level.", "The underlier price must be equal to the Trigger level.", "The underlier price must be less than the Trigger level.", and "The underlier price must be greater than the Trigger level." respectively. A base token is also shown, labeled "token", with the note "base: token from: XMLSchema.xsd".

Schema Component Representation

```
<xsd:simpleType name="TriggerTypeEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="EqualOrLess"/>
    <xsd:enumeration value="EqualOrGreater"/>
    <xsd:enumeration value="Equal"/>
    <xsd:enumeration value="Less"/>
    <xsd:enumeration value="Greater"/>
  </xsd:restriction>
</xsd:simpleType>
```

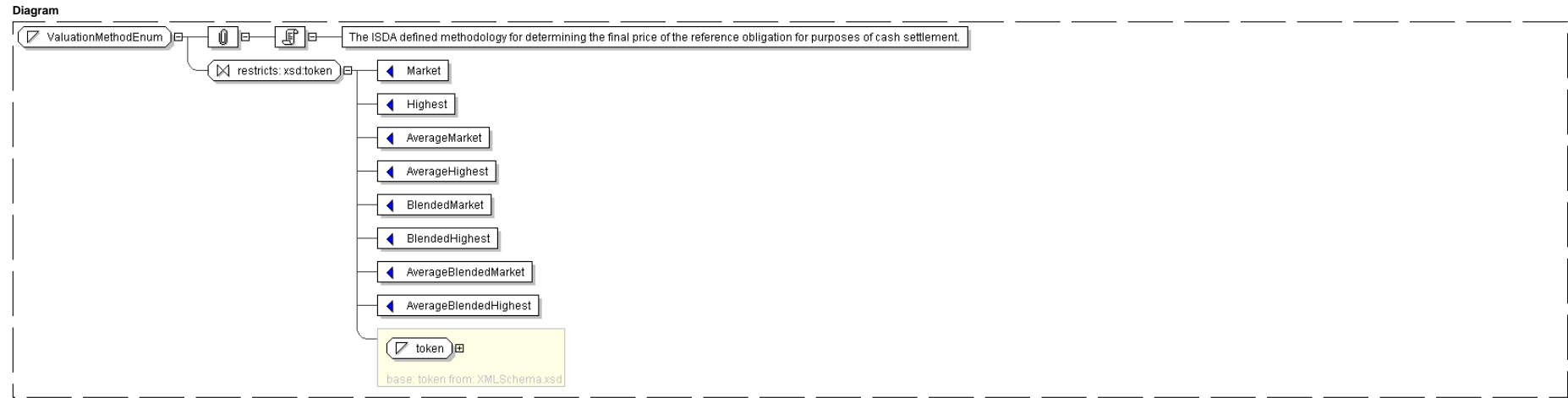
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Simple Type: **ValuationMethodEnum**



Super-types:	<a href="#">xsd:token</a> < <b>ValuationMethodEnum</b> (by restriction)
Sub-types:	None

Name	ValuationMethodEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {Market,Highest,AverageMarket,AverageHighest,BlendedMarket,BlendedHighest,AverageBlendedMarket,AverageBlendedHighest}</li></ul>
Documentation	The ISDA defined methodology for determining the final price of the reference obligation for purposes of cash settlement.



Schema Component Representation

```
<xsd:simpleType name="ValuationMethodEnum">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Market"/>
    <xsd:enumeration value="Highest"/>
    <xsd:enumeration value="AverageMarket"/>
    <xsd:enumeration value="AverageHighest"/>
    <xsd:enumeration value="BlendedMarket"/>
    <xsd:enumeration value="BlendedHighest"/>
    <xsd:enumeration value="AverageBlendedMarket"/>
    <xsd:enumeration value="AverageBlendedHighest"/>
  </xsd:restriction>
</xsd:simpleType>
```

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Simple Type: **WeeklyRollConventionEnum**

Super-types:	None
Sub-types:	None

Name	WeeklyRollConventionEnum
Content	<ul style="list-style-type: none"><li>Union of following types:<ul style="list-style-type: none"><li><a href="#">DayOfWeekEnum</a></li><li>Locally defined type:<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>value</i> comes from list: {TBILL}</li></ul></li></ul></li></ul>
Documentation	The specification of a weekly roll day.



Schema Component Representation

```
<xsd:simpleType name="WeeklyRollConventionEnum">
  <xsd:union memberTypes="DayOfWeekEnum">
    <xsd:simpleType>
```

```
<xsd:restriction base=" xsd:token ">
  <xsd:enumeration value="TBILL"/>
</xsd:restriction>
</xsd:simpleType>
</xsd:union>
</xsd:simpleType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address ">
<sequence>
<element name="state" type=" AusStates "/>
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}"/>
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is *nilable*, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6825 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-eq-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6825 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-eq-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

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## Global Declarations

Element: **brokerEquityOption**

- This element can be used wherever the following element is referenced:
  - [product](#)

Name	brokerEquityOption
Type	<a href="#">BrokerEquityOption</a>
Nilable	no
Abstract	no
Documentation	A component describing a Broker View of an Equity Option.

Logical Diagram



XML Instance Representation

```
<brokerEquityOption
id=" xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells (\"writes\") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction.'

  <equityEffectiveDate> xsd:date </equityEffectiveDate> [0..1]
  'Effective date for a forward starting option.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlying component, which can be either one or many and consists in
  either equity, index or convertible bond component, or a combination of these.'

  <notional> Money </notional> [0..1]
  'The notional amount.'

  <equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]
  'The parameters for defining how the equity option can be exercised, how it is valued and
  how it is settled.'

  Start Group: Feature.model [0..1]
    <feature> OptionFeatures </feature> [0..1]
    'Asian, Barrier, Knock and Pass Through features.'

    <fxFeature> FxFeature </fxFeature> [0..1]
    'Quanto, Composite, or Cross Currency FX features.'

  End Group: Feature.model

  <strategyFeature> StrategyFeature </strategyFeature> [0..1]
  'A equity option simple strategy feature.'
```

```
<strike> EquityStrike </strike> [1]
'Defines whether it is a price or level at which the option has been, or will be, struck.'

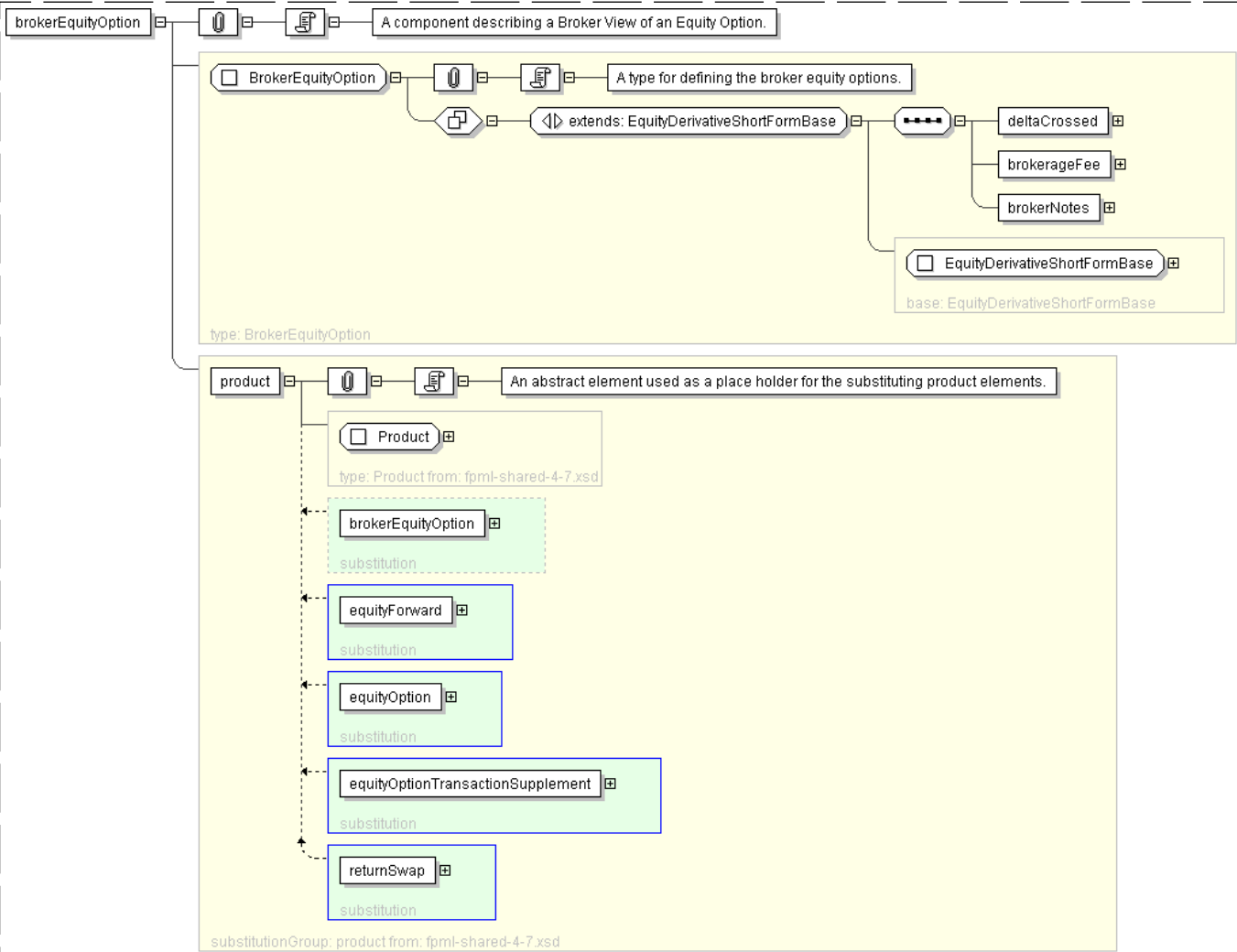
<spotPrice> NonNegativeDecimal </spotPrice> [0..1]
'The price per share, index or basket observed on the trade or effective date.'

<numberOfOptions> NonNegativeDecimal </numberOfOptions> [1]
'The number of options comprised in the option transaction.'

<equityPremium> EquityPremium </equityPremium> [1]
'The equity option premium payable by the buyer to the seller.'

<deltaCrossed> xsd:boolean </deltaCrossed> [1]
<brokerageFee> Money </brokerageFee> [1]
<brokerNotes> xsd:string </brokerNotes> [1]
</brokerEquityOption>
```

Diagram

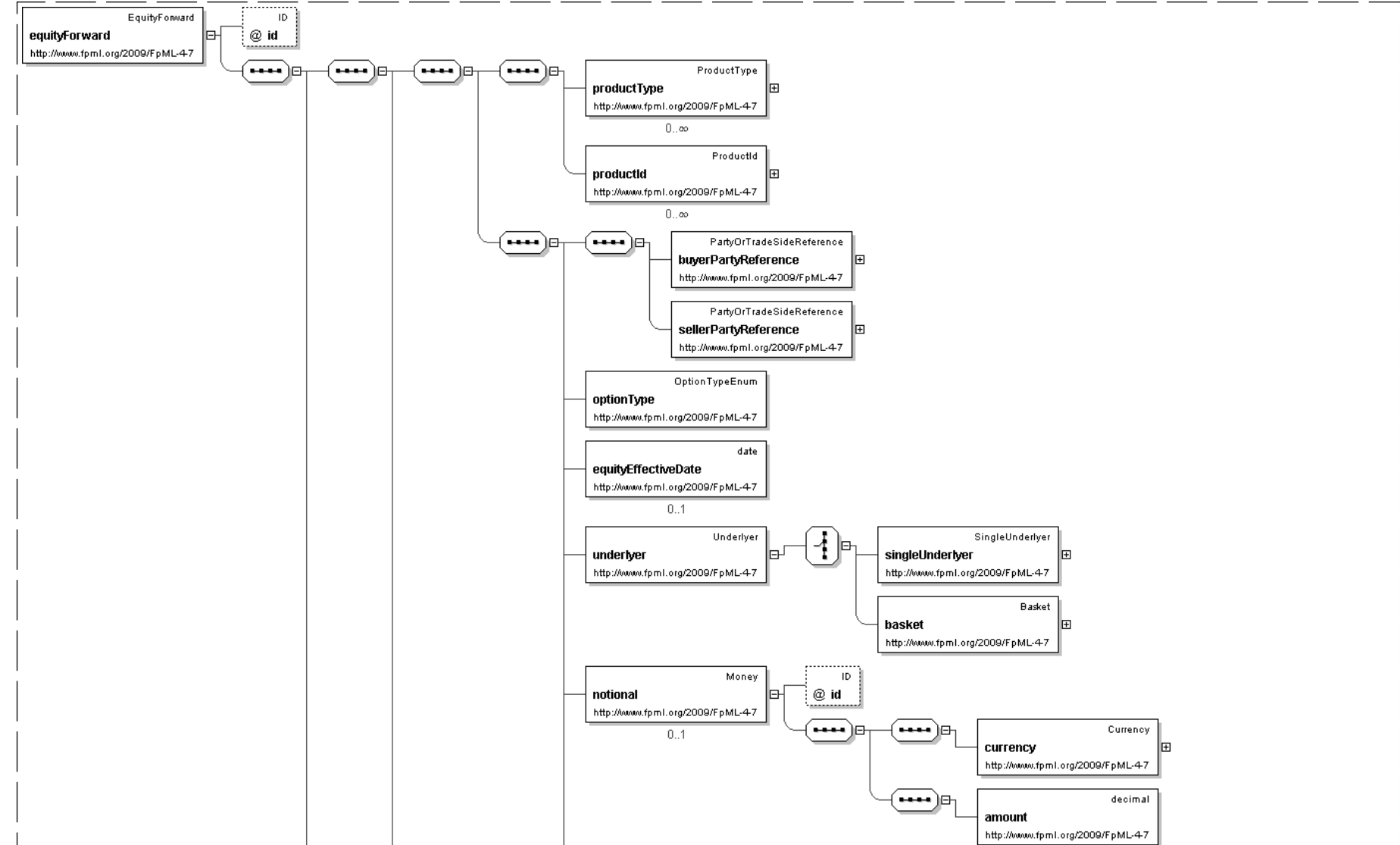


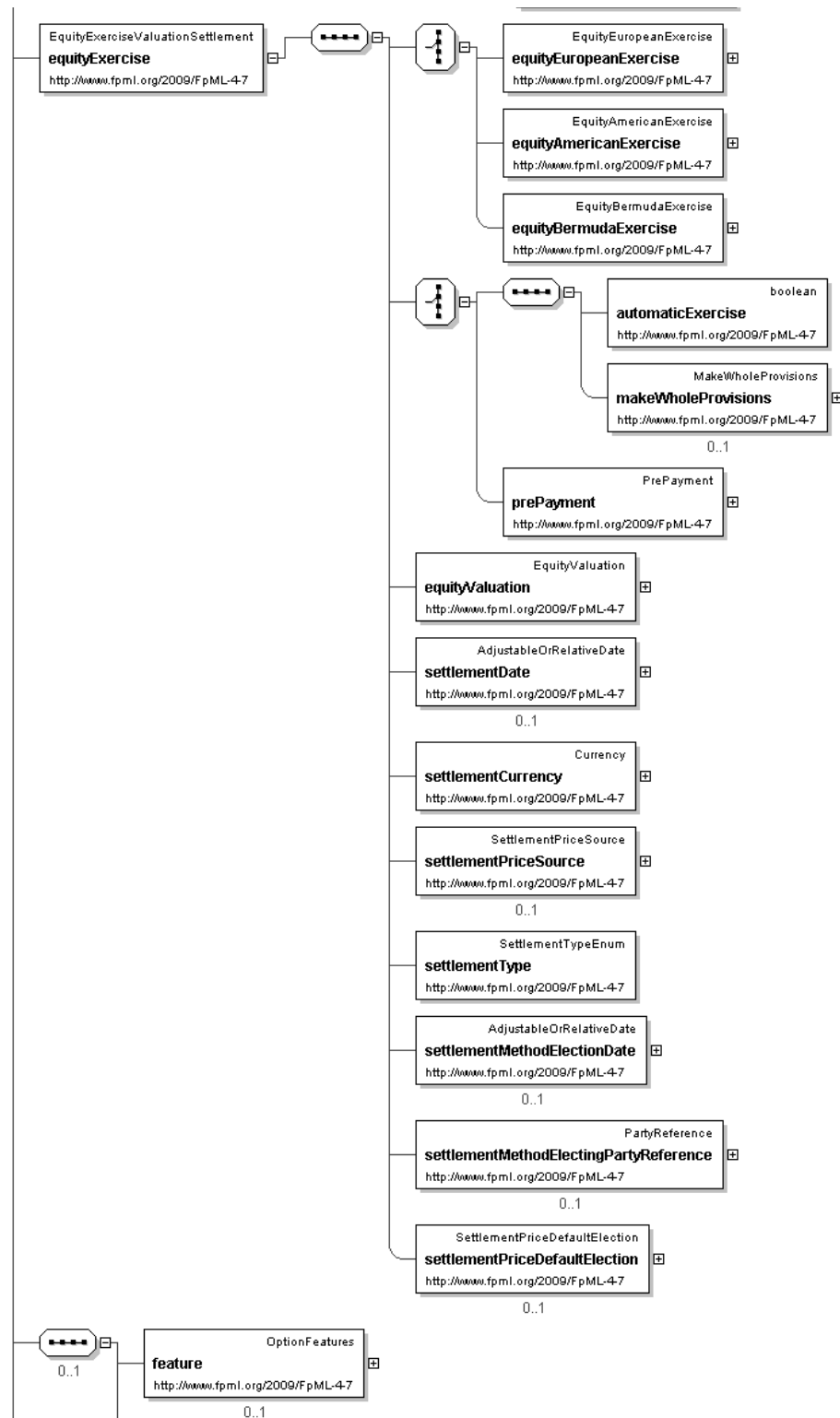
Element: equityForward

- This element can be used wherever the following element is referenced:
  - product

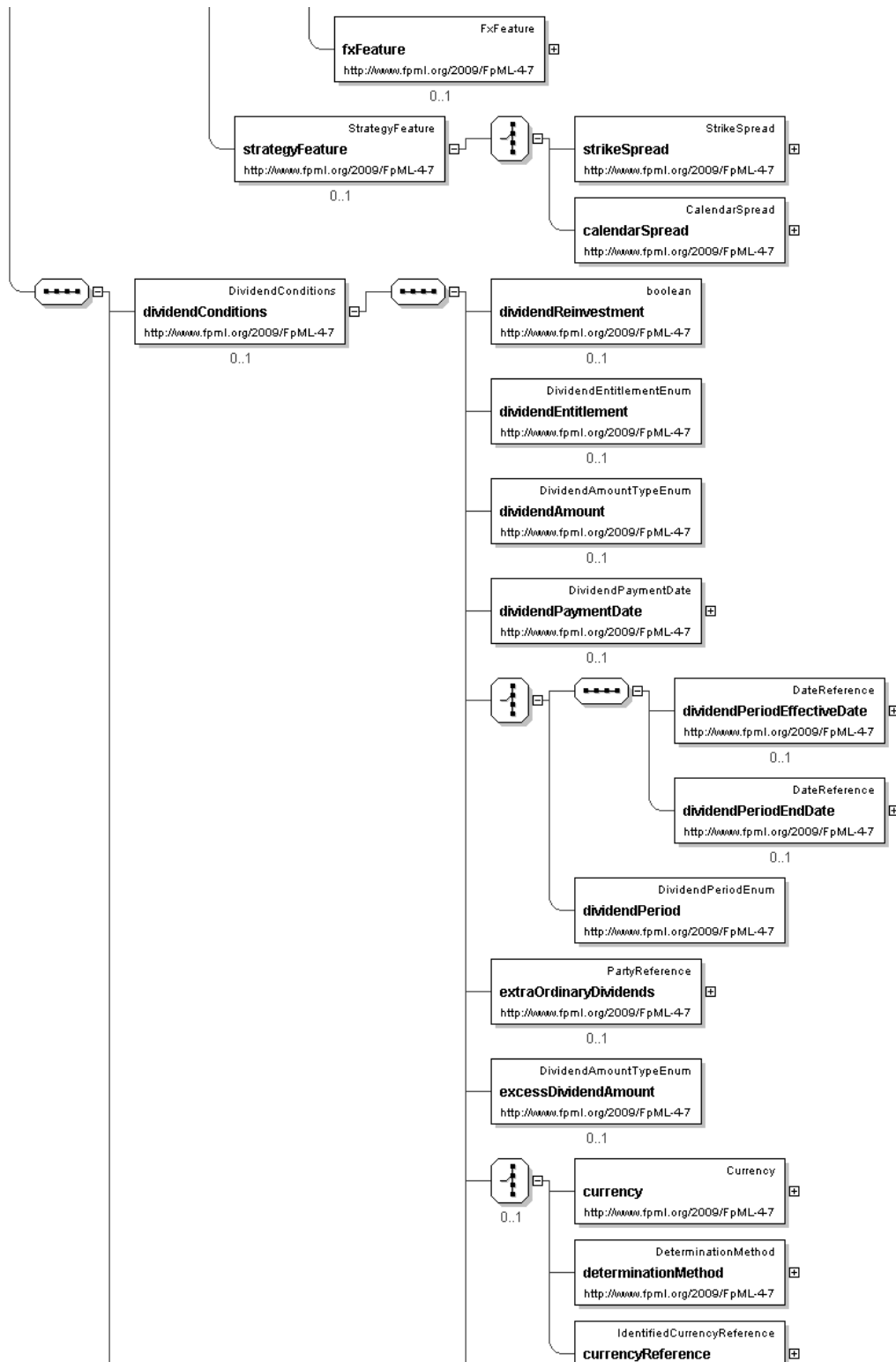
Name	equityForward
Type	EquityForward
Nilable	no
Abstract	no
Documentation	A component describing an Equity Forward product.

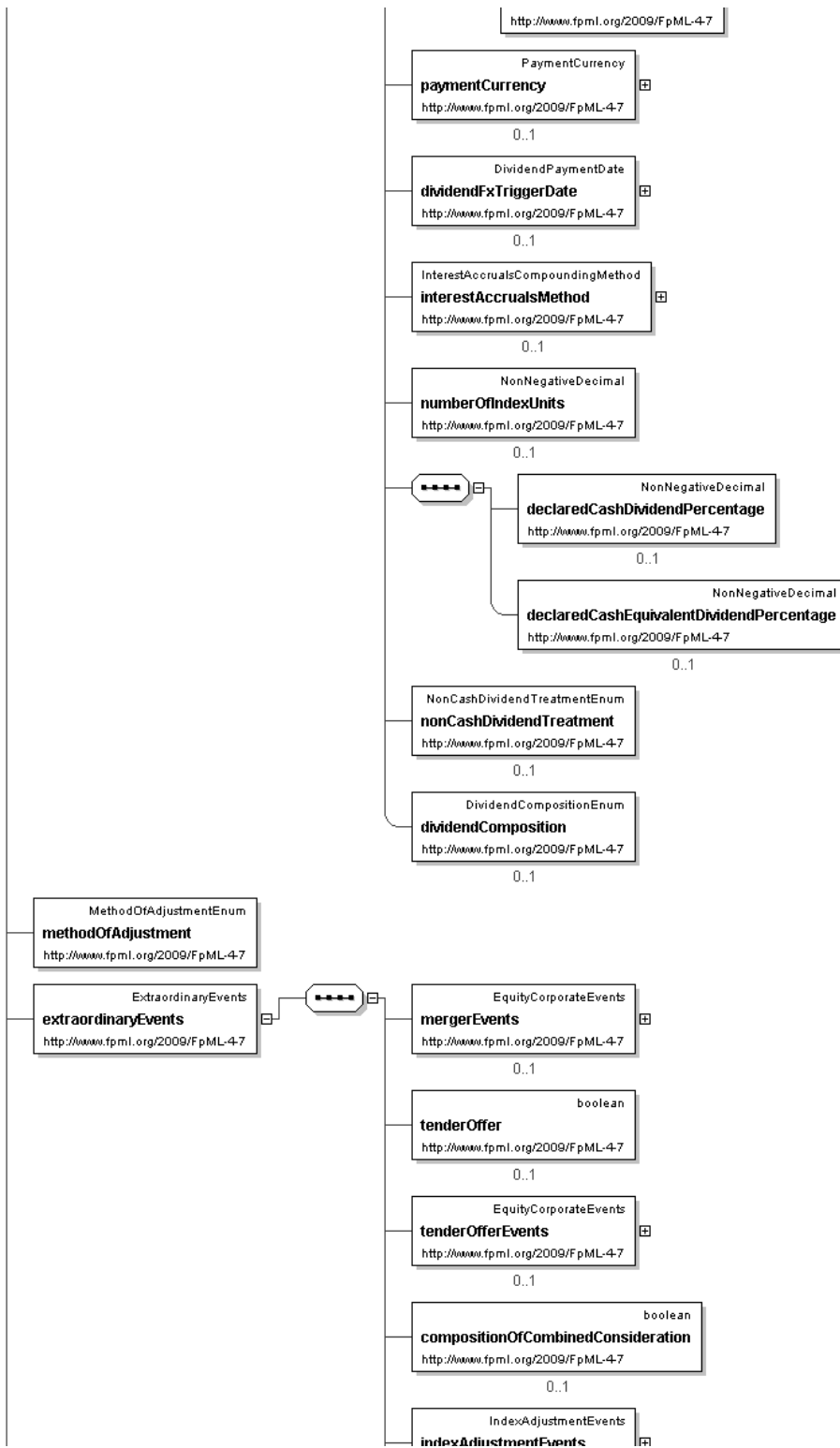
Logical Diagram

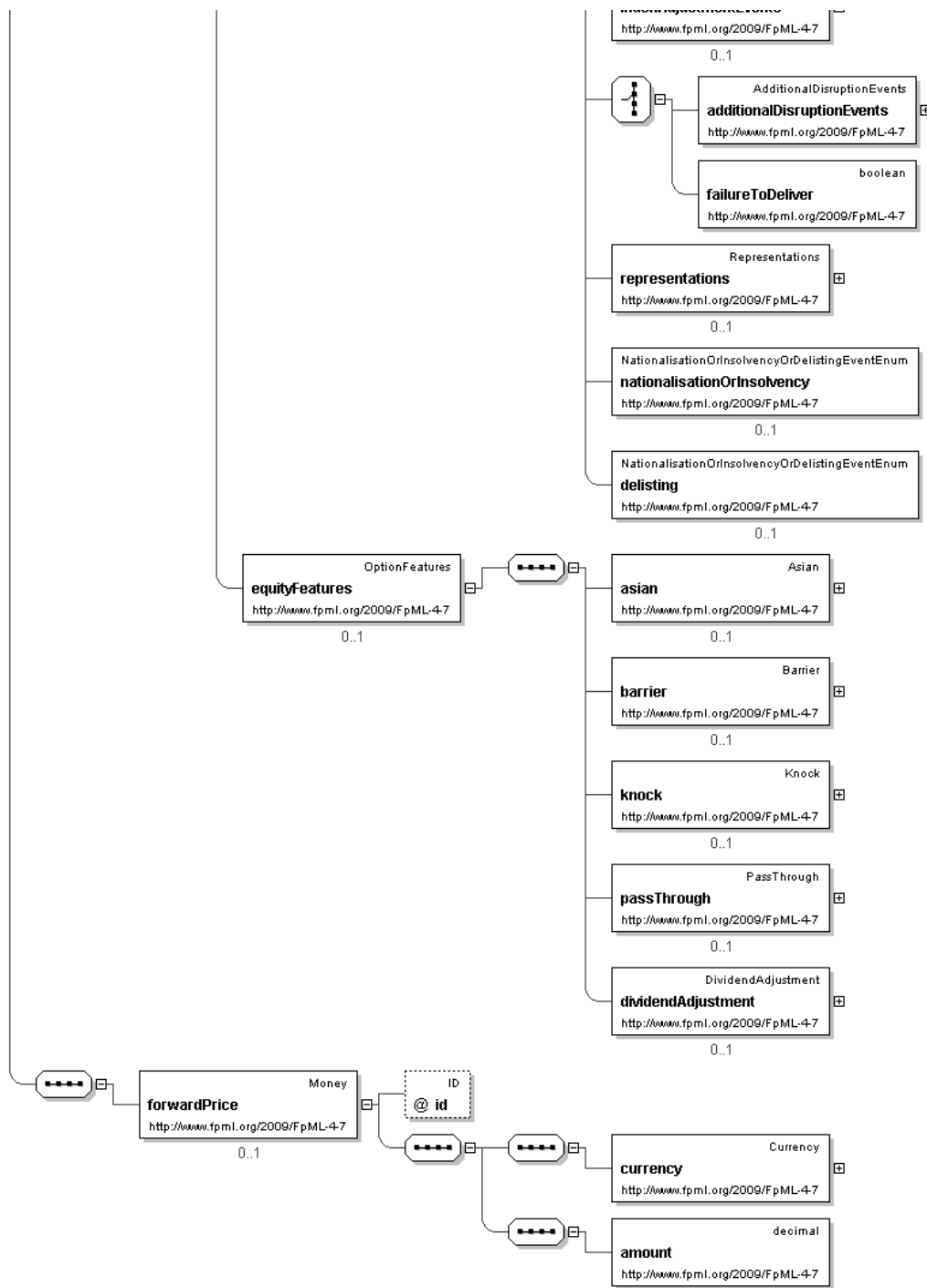












## XML Instance Representation

```

<equityForward
  id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]

```

'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

<productId> [ProductId](#) </productId> [0..\*]

'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

<buyerPartyReference> [PartyOrTradeSideReference](#) </buyerPartyReference> [1]

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

<optionType> [OptionTypeEnum](#) </optionType> [1]

'The type of option transaction.'

<equityEffectiveDate> [xsd:date](#) </equityEffectiveDate> [0..1]

'Effective date for a forward starting option.'

<underlyer> [Underlyer](#) </underlyer> [1]

'Specifies the underlying component, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'

<notional> [Money](#) </notional> [0..1]

'The notional amount.'

<equityExercise> [EquityExerciseValuationSettlement](#) </equityExercise> [1]

'The parameters for defining how the equity option can be exercised, how it is valued and how it is settled.'

Start Group: [Feature.model](#) [0..1]

<feature> [OptionFeatures](#) </feature> [0..1]

'Asian, Barrier, Knock and Pass Through features.'

<fxFeature> [FxFeature](#) </fxFeature> [0..1]

'Quanto, Composite, or Cross Currency FX features.'

End Group: [Feature.model](#)

<strategyFeature> [StrategyFeature](#) </strategyFeature> [0..1]

'A equity option simple strategy feature.'

<dividendConditions> [DividendConditions](#) </dividendConditions> [0..1]

<methodOfAdjustment> [MethodOfAdjustmentEnum](#) </methodOfAdjustment> [1]

'Defines how adjustments will be made to the contract should one or more of the extraordinary events occur.'

<extraordinaryEvents> [ExtraordinaryEvents](#) </extraordinaryEvents> [1]

'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'

<equityFeatures> [OptionFeatures](#) </equityFeatures> [0..1]

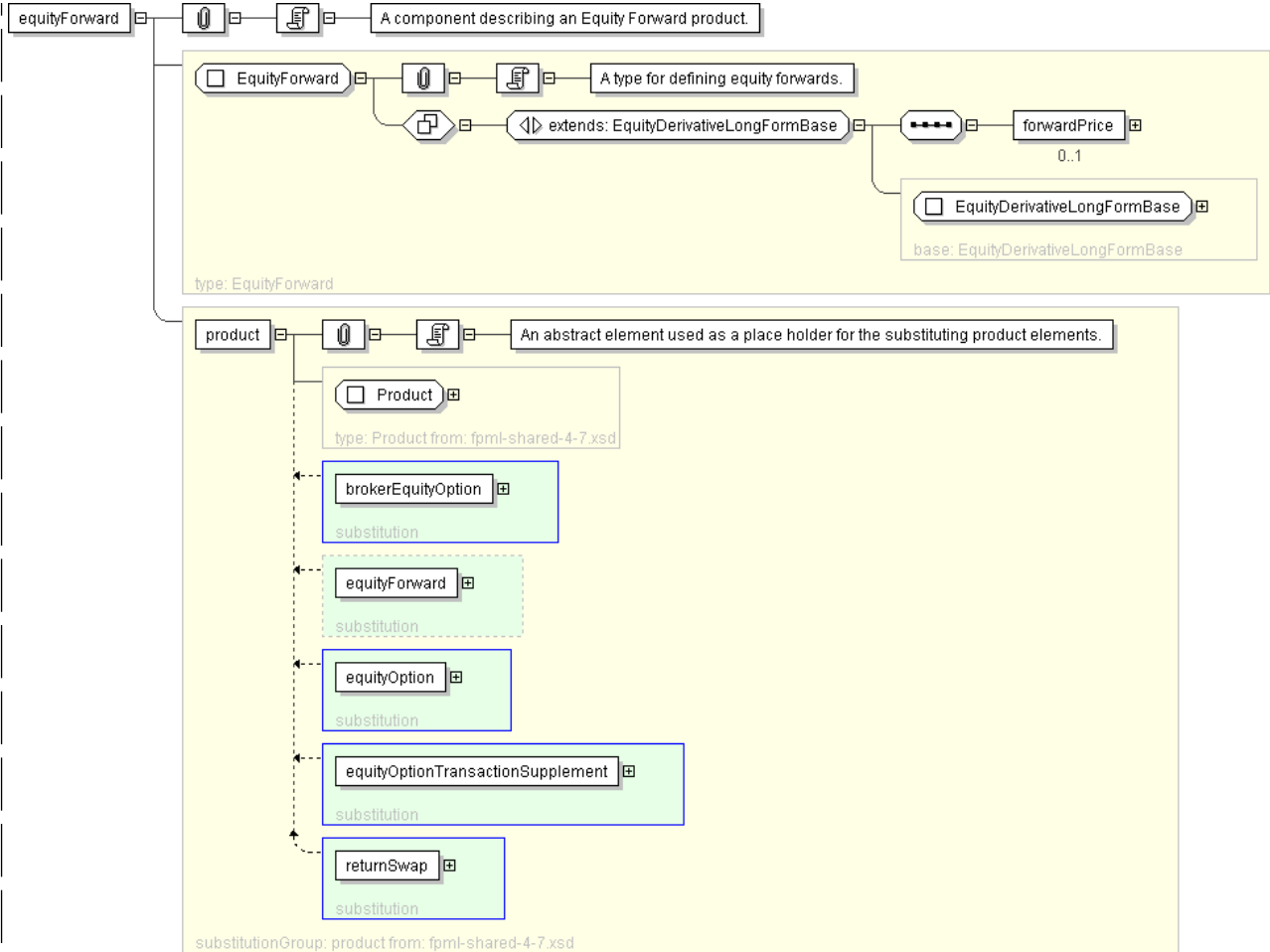
'DEPRECATED This element will be removed in the next FpML major version. Use the "feature" element for option features such as asian, barrier, knock.'

<forwardPrice> [Money](#) </forwardPrice> [0..1]

'The forward price per share, index or basket.'

</equityForward>

## Diagram



Schema Component Representation

```
<xsd:element name="equityForward" type="EquityForward" substitutionGroup="product"/>
```

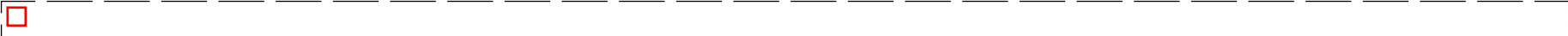
[top](#)

Element: equityOption

- This element can be used wherever the following element is referenced:
  - [product](#)

Name	equityOption
Type	<a href="#">EquityOption</a>
Nilable	no
Abstract	no
Documentation	A component describing an Equity Option product.

Logical Diagram



XML Instance Representation

```

<equityOption
  id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction.'

  <equityEffectiveDate> xsd:date </equityEffectiveDate> [0..1]
  'Effective date for a forward starting option.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlying component, which can be either one or many and consists in
  either equity, index or convertible bond component, or a combination of these.'

  <notional> Money </notional> [0..1]
  'The notional amount.'

  <equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]
  'The parameters for defining how the equity option can be exercised, how it is valued and
  how it is settled.'

  Start Group: Feature.model [0..1]
    <feature> OptionFeatures </feature> [0..1]
    'Asian, Barrier, Knock and Pass Through features.'

    <fxFeature> FxFeature </fxFeature> [0..1]
    'Quanto, Composite, or Cross Currency FX features.'

  End Group: Feature.model

  <strategyFeature> StrategyFeature </strategyFeature> [0..1]
  'A equity option simple strategy feature.'

  <dividendConditions> DividendConditions </dividendConditions> [0..1]
  <methodOfAdjustment> MethodOfAdjustmentEnum </methodOfAdjustment> [1]
  'Defines how adjustments will be made to the contract should one or more of the
  extraordinary events occur.'

  <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [1]
  'Where the underlying is shares, specifies events affecting the issuer of those shares that
  may require the terms of the transaction to be adjusted.'

  <equityFeatures> OptionFeatures </equityFeatures> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Use the "feature
  \" element for option features such as asian, barrier, knock.'

  <strike> EquityStrike </strike> [0..1]
  'Defines whether it is a price or level at which the option has been, or will be, struck.'

  <spotPrice> NonNegativeDecimal </spotPrice> [0..1]

```

'The price per share, index or basket observed on the trade or effective date.'

<numberOfOptions> NonNegativeDecimal </numberOfOptions> [0..1]

'The number of options comprised in the option transaction.'

<optionEntitlement> PositiveDecimal </optionEntitlement> [1]

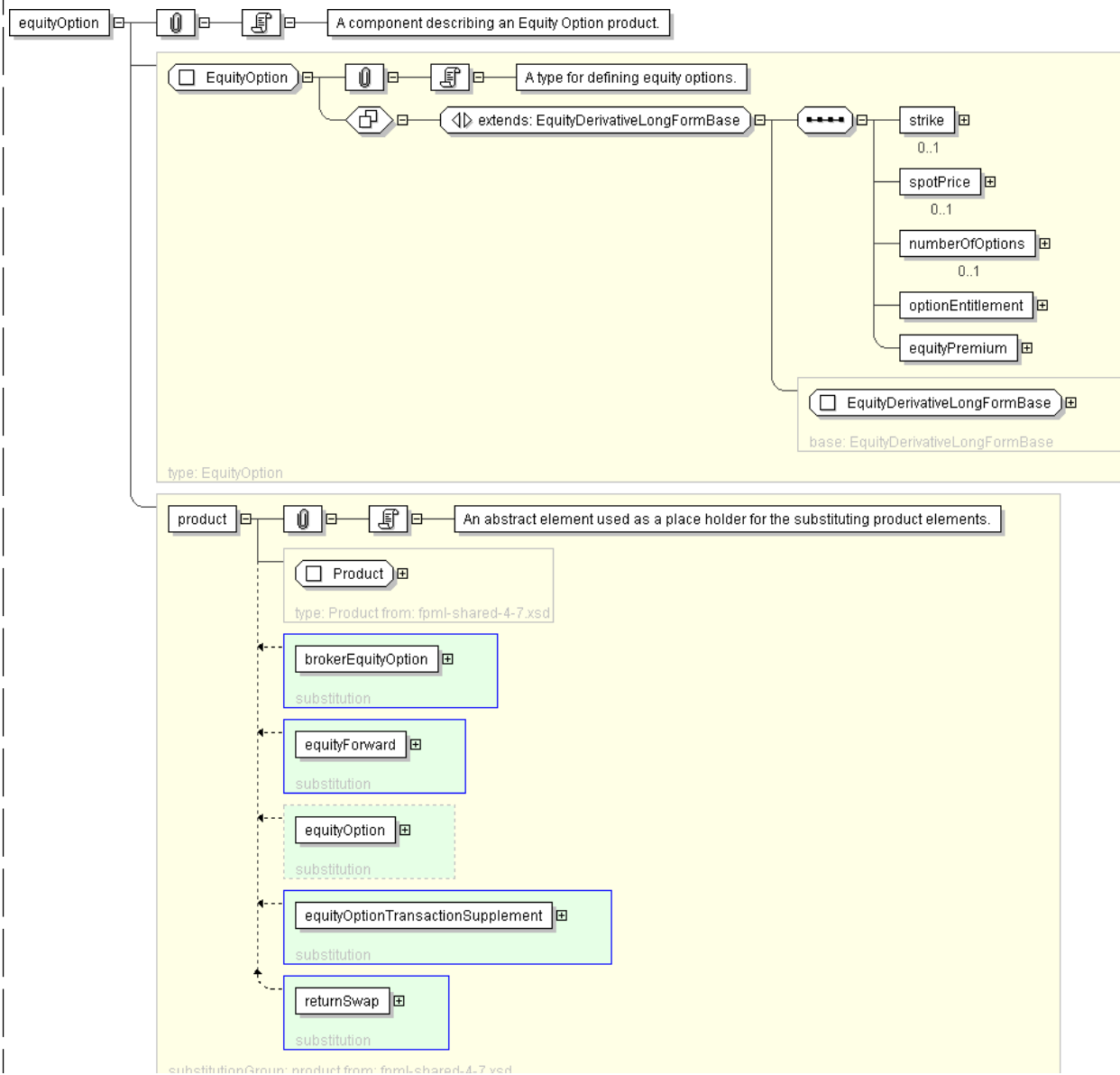
'The number of shares per option comprised in the option transaction.'

<equityPremium> EquityPremium </equityPremium> [1]

'The equity option premium payable by the buyer to the seller.'

</equityOption>

## Diagram



Schema Component Representation

```
<xsd:element name="equityOption" type="EquityOption" substitutionGroup="product"/>
```

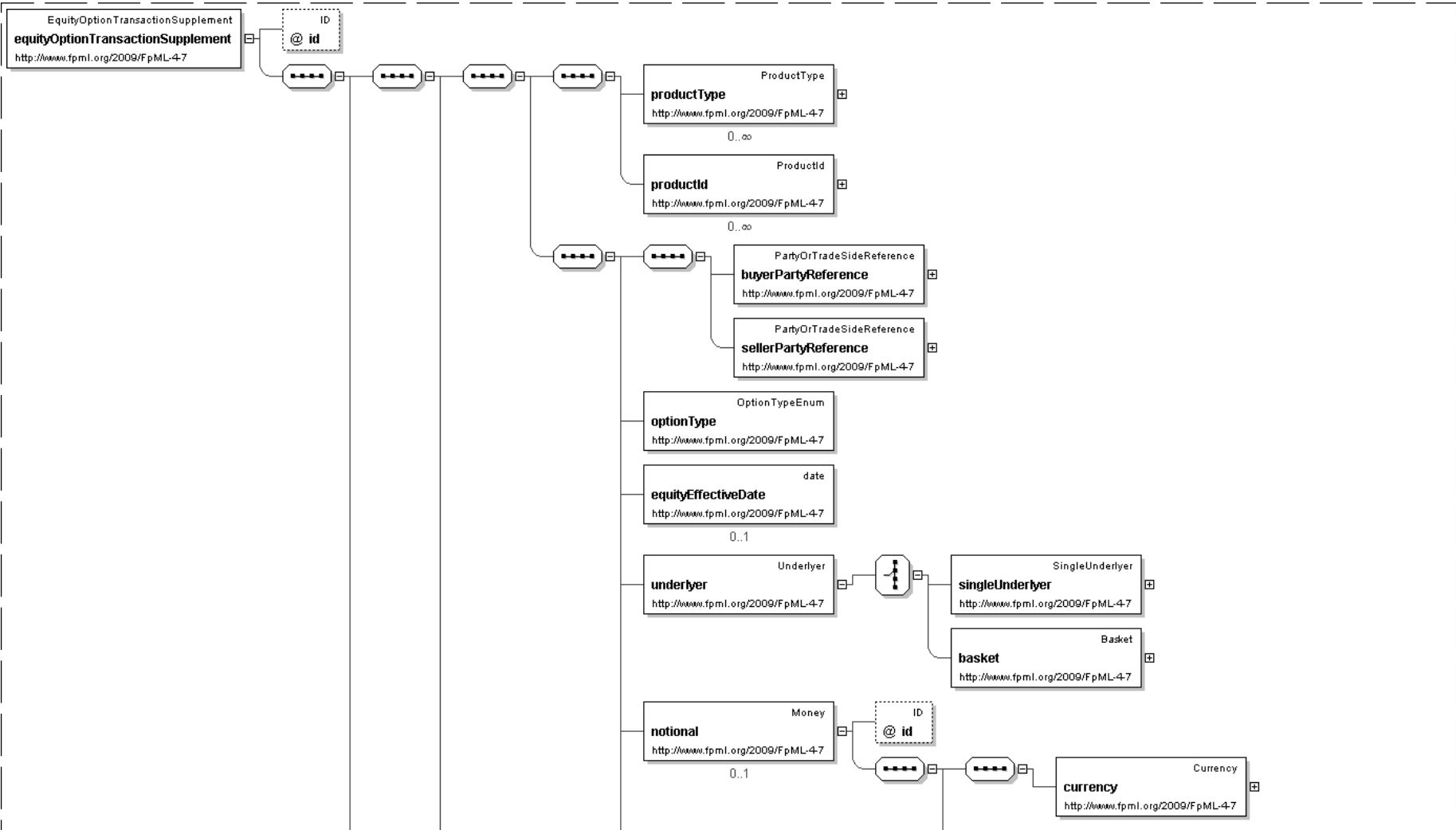
[top](#)

Element: equityOptionTransactionSupplement

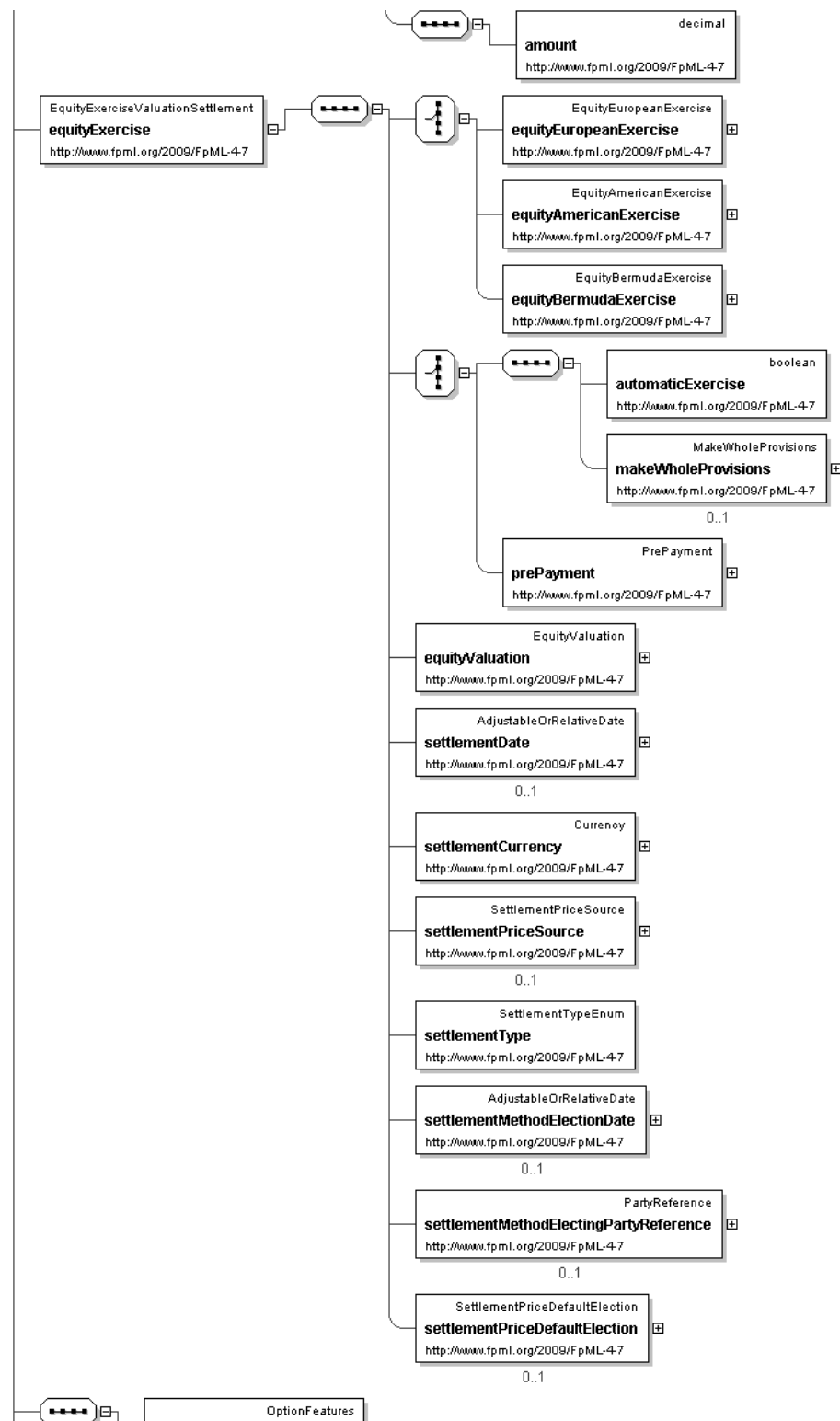
- This element can be used wherever the following element is referenced:
  - [product](#)

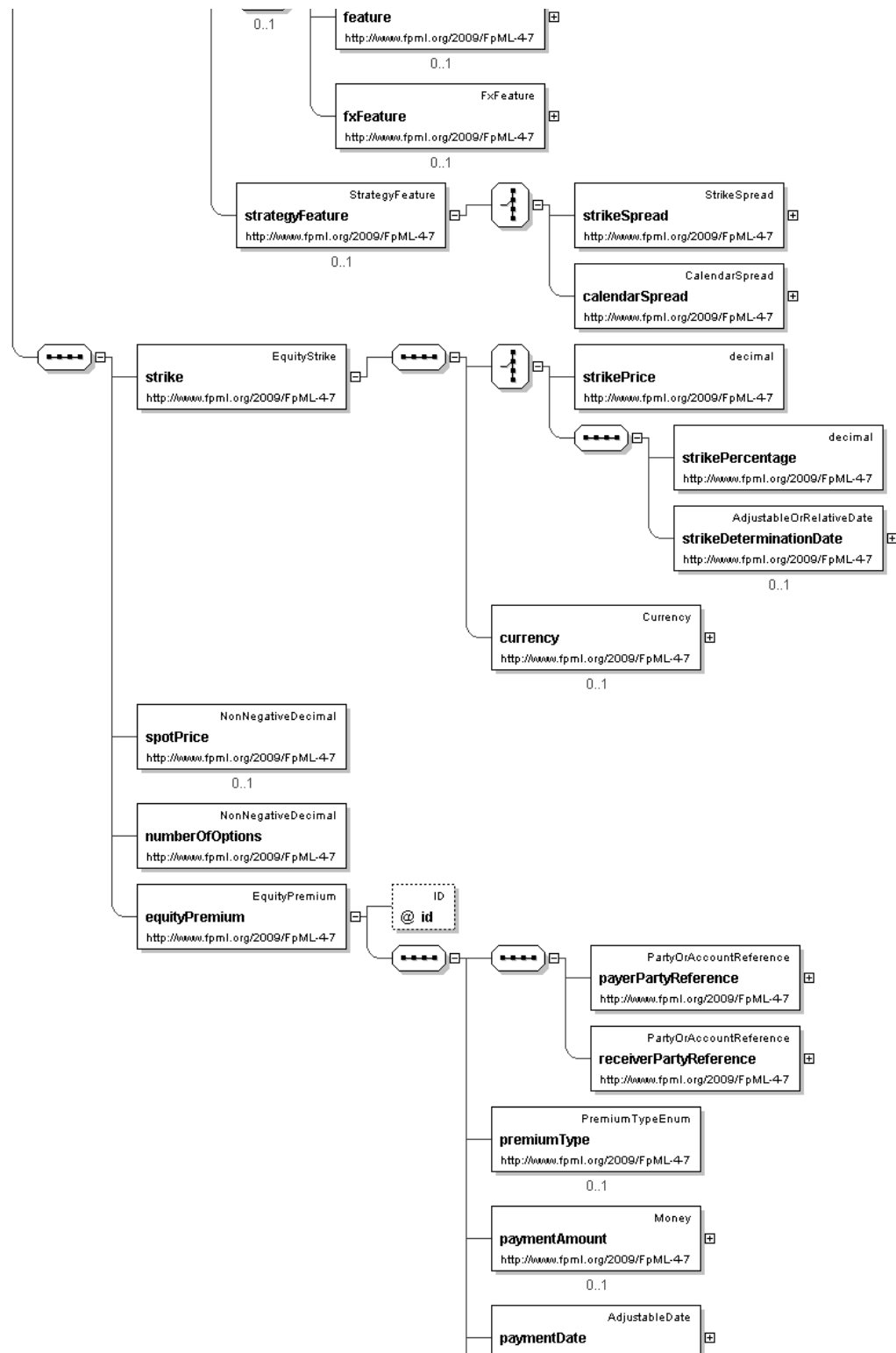
Name	equityOptionTransactionSupplement
Type	<a href="#">EquityOptionTransactionSupplement</a>
Nilable	no
Abstract	no
Documentation	A component describing an Equity Option Transaction Supplement.

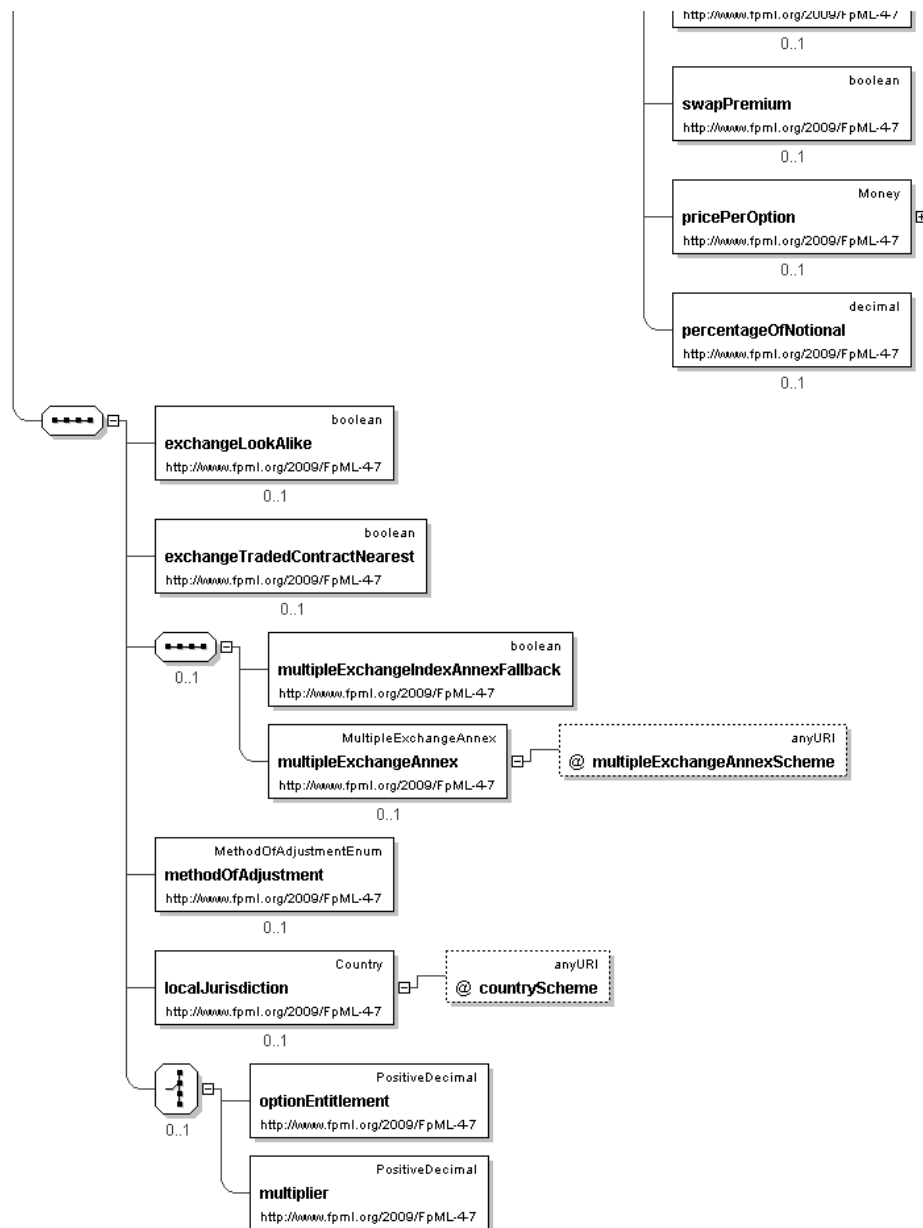
Logical Diagram











### XML Instance Representation

```
<equityOptionTransactionSupplement
  id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
```

<buyerPartyReference> [PartyOrTradeSideReference](#) </buyerPartyReference> [1]

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

<optionType> [OptionTypeEnum](#) </optionType> [1]

'The type of option transaction.'

<equityEffectiveDate> [xsd:date](#) </equityEffectiveDate> [0..1]

'Effective date for a forward starting option.'

<underlyer> [Underlyer](#) </underlyer> [1]

'Specifies the underlying component, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'

<notional> [Money](#) </notional> [0..1]

'The notional amount.'

<equityExercise> [EquityExerciseValuationSettlement](#) </equityExercise> [1]

'The parameters for defining how the equity option can be exercised, how it is valued and how it is settled.'

Start Group: [Feature.model](#) [0..1]

<feature> [OptionFeatures](#) </feature> [0..1]

'Asian, Barrier, Knock and Pass Through features.'

<fxFeature> [FxFeature](#) </fxFeature> [0..1]

'Quanto, Composite, or Cross Currency FX features.'

End Group: [Feature.model](#)

<strategyFeature> [StrategyFeature](#) </strategyFeature> [0..1]

'A equity option simple strategy feature.'

<strike> [EquityStrike](#) </strike> [1]

'Defines whether it is a price or level at which the option has been, or will be, struck.'

<spotPrice> [NonNegativeDecimal](#) </spotPrice> [0..1]

'The price per share, index or basket observed on the trade or effective date.'

<numberOfOptions> [NonNegativeDecimal](#) </numberOfOptions> [1]

'The number of options comprised in the option transaction.'

<equityPremium> [EquityPremium](#) </equityPremium> [1]

'The equity option premium payable by the buyer to the seller.'

<exchangeLookAlike> [xsd:boolean](#) </exchangeLookAlike> [0..1]

'For a share option transaction, a flag used to indicate whether the transaction is to be treated as an 'exchange look-alike'. This designation has significance for how share adjustments (arising from corporate actions) will be determined for the transaction. For an 'exchange look-alike' transaction the relevant share adjustments will follow that for a corresponding designated contract listed on the related exchange (referred to as Options Exchange Adjustment (ISDA defined term), otherwise the share adjustments will be determined by the calculation agent (referred to as Calculation Agent Adjustment (ISDA defined term)).'

<exchangeTradedContractNearest> [xsd:boolean](#) </exchangeTradedContractNearest> [0..1]

'For an index option transaction, a flag used in conjunction with Futures Price Valuation (ISDA defined term) to indicate whether the Nearest Index Contract provision is applicable. The Nearest Index Contract provision is a rule for determining the Exchange-traded Contract (ISDA defined term) without having to explicitly state the actual contract, delivery month and exchange on which it is traded.'

Start Sequence [0..1]

```
<multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]
```

'For an index option transaction, a flag to indicate whether a relevant Multiple Exchange Index Annex is applicable to the transaction. This annex defines additional provisions which are applicable where an index is comprised of component securities that are traded on multiple exchanges.'

```
<multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]
```

'Used for explicitly specifying additional provisions which are applicable where an index is comprised of component securities that are traded on multiple exchanges.'

End Sequence

```
<methodOfAdjustment> MethodOfAdjustmentEnum </methodOfAdjustment> [0..1]
```

```
<localJurisdiction> Country </localJurisdiction> [0..1]
```

'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties, and similar charges imposed by the taxing authority of the Local Jurisdiction If this element is not present Local Jurisdiction is Not Applicable.'

Start Choice [0..1]

```
<optionEntitlement> PositiveDecimal </optionEntitlement> [1]
```

'The number of shares per option comprised in the option transaction supplement.'

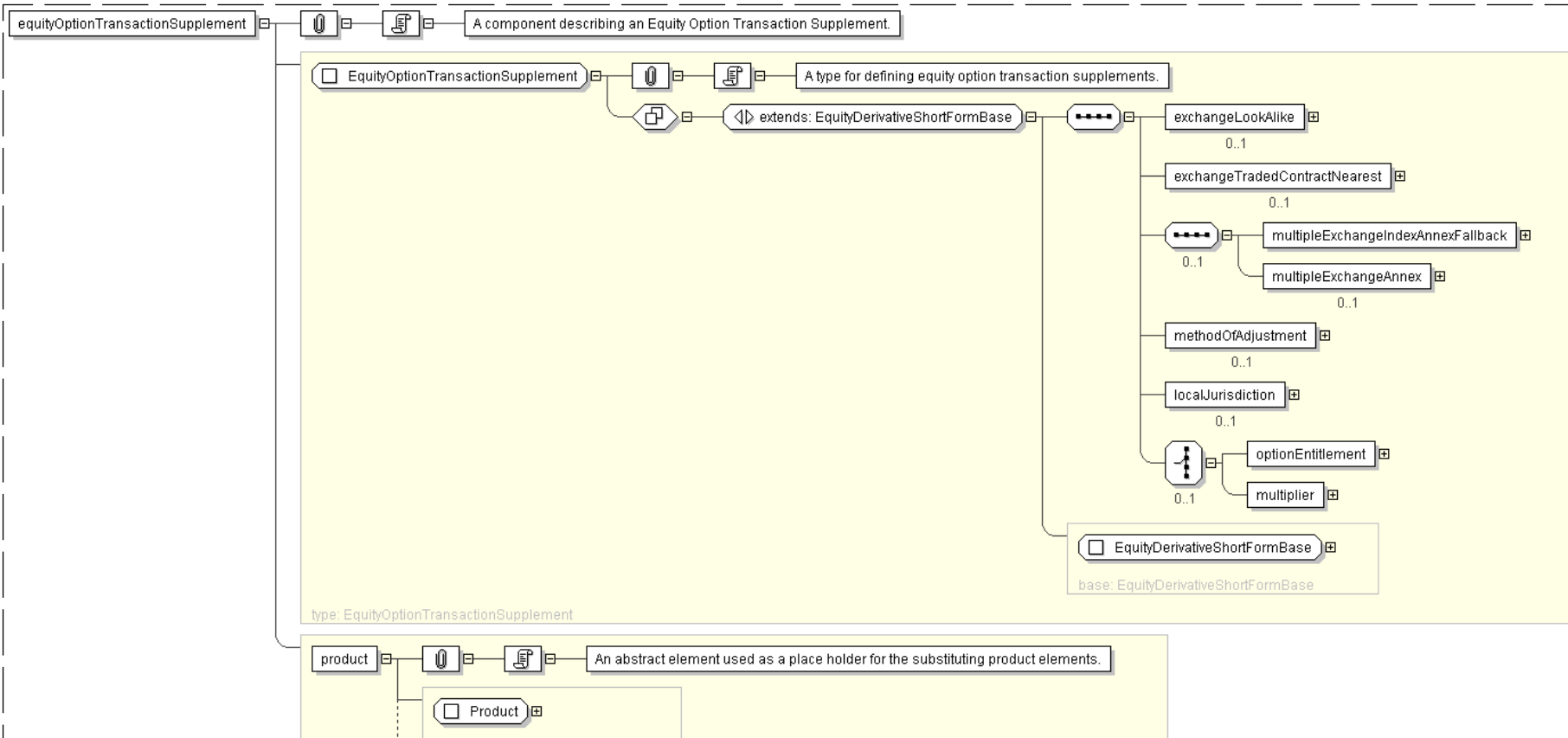
```
<multiplier> PositiveDecimal </multiplier> [1]
```

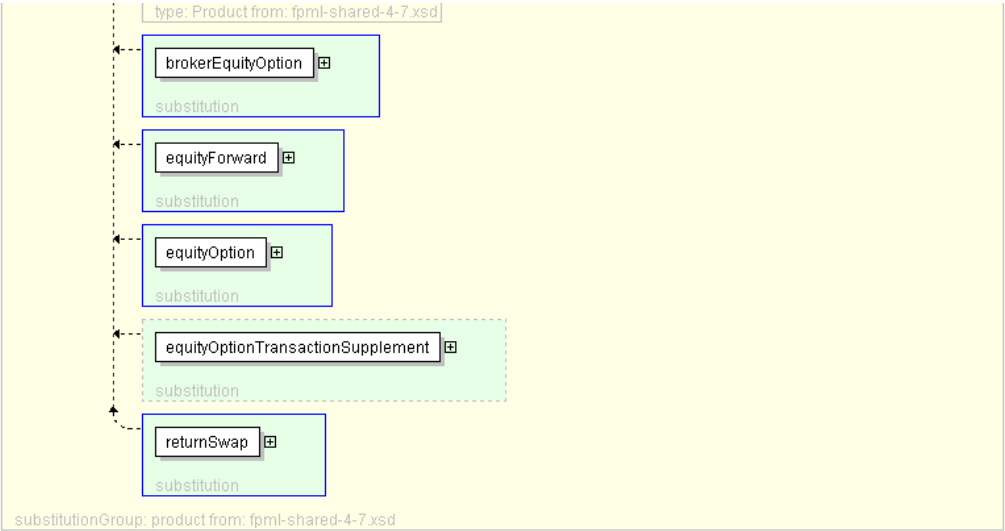
'Specifies the contract multiplier that can be associated with an index option.'

End Choice

```
</equityOptionTransactionSupplement>
```

## Diagram





Schema Component Representation

```
<xsd:element name="equityOptionTransactionSupplement" type="
EquityOptionTransactionSupplement " substitutionGroup="product" />
```

[top](#)

Global Definitions

Complex Type: BrokerEquityOption

Super-types:	<a href="#">Product</a> < <a href="#">EquityDerivativeBase</a> (by extension) < <a href="#">EquityDerivativeShortFormBase</a> (by extension) < <b>BrokerEquityOption</b> (by extension)
Sub-types:	None

Name	BrokerEquityOption
Used by (from the same schema document)	Element <a href="#">brokerEquityOption</a>
Abstract	no
Documentation	A type for defining the broker equity options.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'
```

```
<optionType> OptionTypeEnum </optionType> [1]
'The type of option transaction.'xsd:date </equityEffectiveDate> [0..1]
'Effective date for a forward starting option.'Underlyer </underlyer> [1]
'Specifies the underlying component, which can be either one or many and consists in
either equity, index or convertible bond component, or a combination of these.'Money </notional> [0..1]
'The notional amount.'EquityExerciseValuationSettlement </equityExercise> [1]
'The parameters for defining how the equity option can be exercised, how it is valued and
how it is settled.'Feature.model [0..1]
<feature> OptionFeatures </feature> [0..1]
'Asian, Barrier, Knock and Pass Through features.'

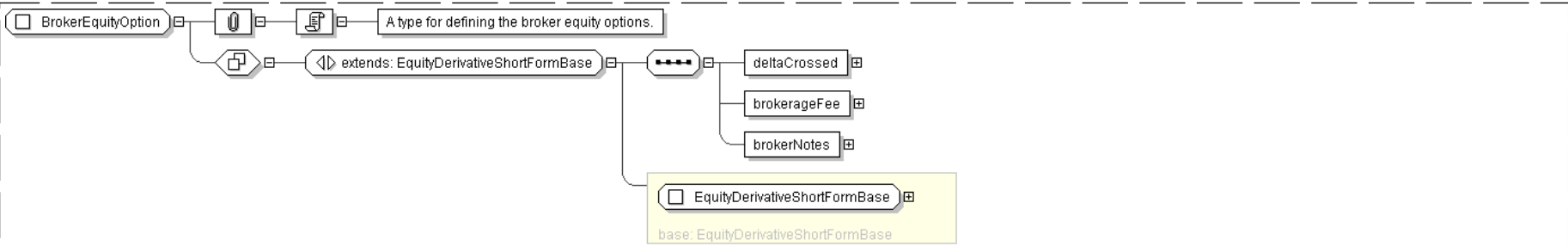
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features.'Feature.model

<strategyFeature> StrategyFeature </strategyFeature> [0..1]
'A equity option simple strategy feature.'

<strike> EquityStrike </strike> [1]
'Defines whether it is a price or level at which the option has been, or will be, struck.'NonNegativeDecimal </spotPrice> [0..1]
'The price per share, index or basket observed on the trade or effective date.'NonNegativeDecimal </numberOfOptions> [1]
'The number of options comprised in the option transaction.'EquityPremium </equityPremium> [1]
'The equity option premium payable by the buyer to the seller.'xsd:boolean </deltaCrossed> [1]
<brokerageFee> Money </brokerageFee> [1]
<brokerNotes> xsd:string </brokerNotes> [1]

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BrokerEquityOption">
  <xsd:complexContent>
    <xsd:extension base=" EquityDerivativeShortFormBase ">
      <xsd:sequence>
```

Complex Type: **EquityAmericanExercise**

Super-types:	<a href="#">SharedAmericanExercise</a> < <b>EquityAmericanExercise</b> (by extension)
Sub-types:	None
Name	EquityAmericanExercise
Used by (from the same schema document)	Complex Type <a href="#">EquityExerciseValuationSettlement</a>
Abstract	no
Documentation	A type for defining exercise procedures associated with an American style exercise of an equity option. This entity inherits from the type SharedAmericanExercise.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <commencementDate> AdjustableOrRelativeDate </commencementDate> [1]
  'The first day of the exercise period for an American style option.'

  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

  <latestExerciseTime> BusinessCenterTime </latestExerciseTime> [0..1]
  'For a Bermuda or American style option, the latest time on an exercise business day
  (excluding the expiration date) within the exercise period that notice can be given by
  the buyer to the seller or seller\'s agent. Notice of exercise given after this time will
  be deemed to have been given on the next exercise business day.'

  <latestExerciseTimeType> TimeTypeEnum </latestExerciseTimeType> [0..1]
  'The latest time of day at which the equity option can be exercised, for example the
  official closing time of the exchange.'

  <equityExpirationTimeType> TimeTypeEnum </equityExpirationTimeType> [1]
  'The time of day at which the equity option expires, for example the official closing time
  of the exchange.'

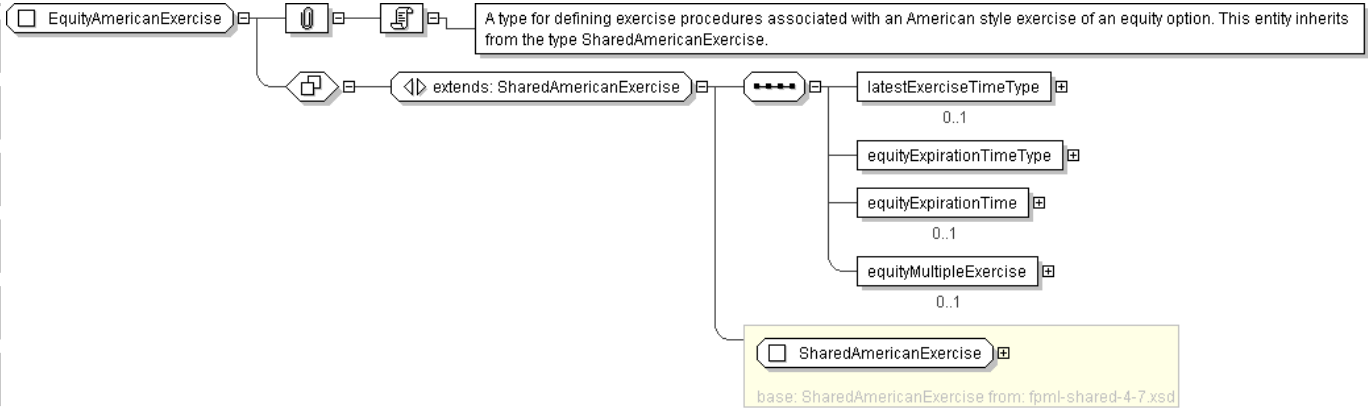
  <equityExpirationTime> BusinessCenterTime </equityExpirationTime> [0..1]
  'The specific time of day at which the equity option expires.'

  <equityMultipleExercise> EquityMultipleExercise </equityMultipleExercise> [0..1]
  'The presence of this element indicates that the option may be exercised on different days.
  It is not applicable to European options.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="EquityAmericanExercise">
  <xsd:complexContent>
    <xsd:extension base="SharedAmericanExercise">
      <xsd:sequence>
        <xsd:element name="latestExerciseTimeType" type="TimeTypeEnum" minOccurs="0"/>
        <xsd:element name="equityExpirationTimeType" type="TimeTypeEnum"/>
        <xsd:element name="equityExpirationTime" type="BusinessCenterTime" minOccurs="0"/>
        <xsd:element name="equityMultipleExercise" type="EquityMultipleExercise" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: EquityBermudaExercise

Super-types:	<a href="#">SharedAmericanExercise</a> < <b>EquityBermudaExercise</b> (by extension)
Sub-types:	None
Name	EquityBermudaExercise
Used by (from the same schema document)	Complex Type <a href="#">EquityExerciseValuationSettlement</a>
Abstract	no
Documentation	A type for defining exercise procedures associated with a Bermuda style exercise of an equity option. The term Bermuda is adopted in FpML for consistency with the ISDA Definitions.

XML Instance Representation

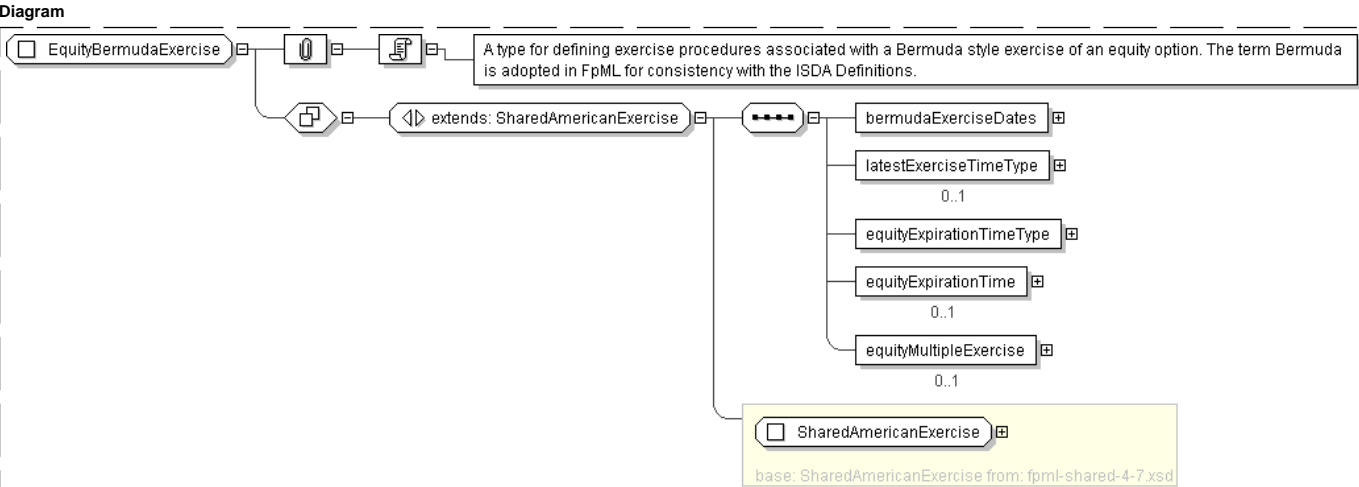
```
<...
id="xsd:ID [0..1]">
  <commencementDate> AdjustableOrRelativeDate </commencementDate> [1]
  'The first day of the exercise period for an American style option.'

  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

  <latestExerciseTime> BusinessCenterTime </latestExerciseTime> [0..1]
  'For a Bermuda or American style option, the latest time on an exercise business day
  (excluding the expiration date) within the exercise period that notice can be given by
  the buyer to the seller or seller\'s agent. Notice of exercise given after this time will
  be deemed to have been given on the next exercise business day.'

  <bermudaExerciseDates> DateList </bermudaExerciseDates> [1]
  'List of Exercise Dates for a Bermuda option.'
```

```
<latestExerciseTimeType> TimeTypeEnum </latestExerciseTimeType> [0..1]
'The latest time of day at which the equity option can be exercised, for example the
official closing time of the exchange.'TimeTypeEnum </equityExpirationTimeType> [1]
'The time of day at which the equity option expires, for example the official closing time
of the exchange.'BusinessCenterTime </equityExpirationTime> [0..1]
'The specific time of day at which the equity option expires.'EquityMultipleExercise </equityMultipleExercise> [0..1]
'The presence of this element indicates that the option may be exercised on different days.
It is not applicable to European options.'
```



Schema Component Representation

```
<xsd:complexType name="EquityBermudaExercise">
  <xsd:complexContent>
    <xsd:extension base=" SharedAmericanExercise " >
      <xsd:sequence>
        <xsd:element name="bermudaExerciseDates" type=" DateList " />
        <xsd:element name="latestExerciseTimeType" type=" TimeTypeEnum " minOccurs="0"/>
        <xsd:element name="equityExpirationTimeType" type=" TimeTypeEnum " />
        <xsd:element name="equityExpirationTime" type=" BusinessCenterTime " minOccurs="0"/>
        <xsd:element name="equityMultipleExercise" type=" EquityMultipleExercise " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: EquityDerivativeBase

Super-types:	<a href="#">Product</a> < <b>EquityDerivativeBase</b> (by extension)
--------------	--

Sub-types:	<div><ul style="list-style-type: none"><li>• <a href="#">EquityDerivativeLongFormBase</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">EquityForward</a> (by extension)</li><li>◦ <a href="#">EquityOption</a> (by extension)</li></ul></li><li>• <a href="#">EquityDerivativeShortFormBase</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">BrokerEquityOption</a> (by extension)</li><li>◦ <a href="#">EquityOptionTransactionSupplement</a> (by extension)</li></ul></li></ul></div>
------------	---

Name	EquityDerivativeBase
Abstract	yes
Documentation	A type for defining the common features of equity derivatives.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction.'

  <equityEffectiveDate> xsd:date </equityEffectiveDate> [0..1]
  'Effective date for a forward starting option.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlying component, which can be either one or many and consists in
  either equity, index or convertible bond component, or a combination of these.'

  <notional> Money </notional> [0..1]
  'The notional amount.'

  <equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]
  'The parameters for defining how the equity option can be exercised, how it is valued and
  how it is settled.'

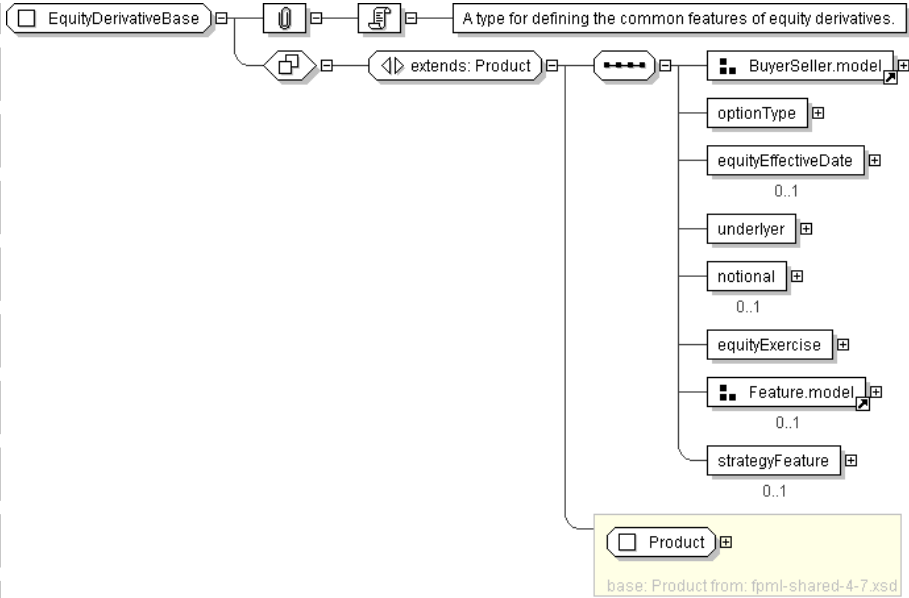
  Start Group: Feature.model [0..1]
    <feature> OptionFeatures </feature> [0..1]
    'Asian, Barrier, Knock and Pass Through features.'

    <fxFeature> FxFeature </fxFeature> [0..1]
    'Quanto, Composite, or Cross Currency FX features.'

  End Group: Feature.model
  <strategyFeature> StrategyFeature </strategyFeature> [0..1]
  'A equity option simple strategy feature.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityDerivativeBase" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:group ref="BuyerSeller.model"/>
        <xsd:element name="optionType" type="OptionTypeEnum"/>
        <xsd:element name="equityEffectiveDate" type="xsd:date" minOccurs="0"/>
        <xsd:element name="underlier" type="Underlier"/>
        <xsd:element name="notional" type="Money" minOccurs="0"/>
        <xsd:element name="equityExercise" type="EquityExerciseValuationSettlement"/>
        <xsd:group ref="Feature.model" minOccurs="0"/>
        <xsd:element name="strategyFeature" type="StrategyFeature" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: EquityDerivativeLongFormBase

Super-types:	<a href="#">Product</a> < <a href="#">EquityDerivativeBase</a> (by extension) < <b>EquityDerivativeLongFormBase</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">EquityForward</a> (by extension)</li><li><a href="#">EquityOption</a> (by extension)</li></ul>

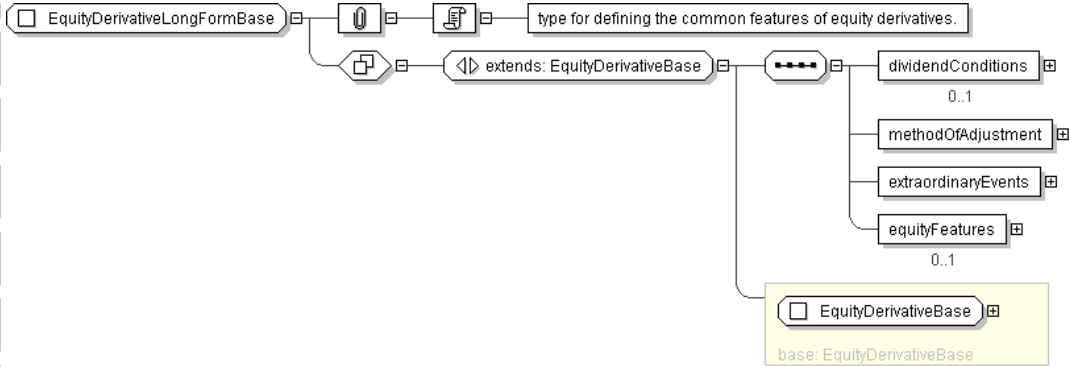
Name	EquityDerivativeLongFormBase
Abstract	yes
Documentation	type for defining the common features of equity derivatives.

XML Instance Representation

```
<...
  id="xsd:ID [0..1]">
    <productType> ProductType </productType> [0..*]
    'A classification of the type of product. FpML defines a simple product categorization using
    a coding scheme.'
    <productId> ProductId </productId> [0..*]
```

<code>'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'</code>
<code>&lt;buyerPartyReference&gt; <a href="#">PartyOrTradeSideReference</a> &lt;/buyerPartyReference&gt; [1]</code>
<code>'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'</code>
<code>&lt;sellerPartyReference&gt; <a href="#">PartyOrTradeSideReference</a> &lt;/sellerPartyReference&gt; [1]</code>
<code>'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'</code>
<code>&lt;optionType&gt; <a href="#">OptionTypeEnum</a> &lt;/optionType&gt; [1]</code>
<code>'The type of option transaction.'</code>
<code>&lt;equityEffectiveDate&gt; <a href="#">xsd:date</a> &lt;/equityEffectiveDate&gt; [0..1]</code>
<code>'Effective date for a forward starting option.'</code>
<code>&lt;underlyer&gt; <a href="#">Underlyer</a> &lt;/underlyer&gt; [1]</code>
<code>'Specifies the underlying component, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'</code>
<code>&lt;notional&gt; <a href="#">Money</a> &lt;/notional&gt; [0..1]</code>
<code>'The notional amount.'</code>
<code>&lt;equityExercise&gt; <a href="#">EquityExerciseValuationSettlement</a> &lt;/equityExercise&gt; [1]</code>
<code>'The parameters for defining how the equity option can be exercised, how it is valued and how it is settled.'</code>
Start Group: <code><a href="#">Feature.model</a> [0..1]</code>
<code>&lt;feature&gt; <a href="#">OptionFeatures</a> &lt;/feature&gt; [0..1]</code>
<code>'Asian, Barrier, Knock and Pass Through features.'</code>
<code>&lt;fxFeature&gt; <a href="#">FxFeature</a> &lt;/fxFeature&gt; [0..1]</code>
<code>'Quanto, Composite, or Cross Currency FX features.'</code>
End Group: <code><a href="#">Feature.model</a></code>
<code>&lt;strategyFeature&gt; <a href="#">StrategyFeature</a> &lt;/strategyFeature&gt; [0..1]</code>
<code>'A equity option simple strategy feature.'</code>
<code>&lt;dividendConditions&gt; <a href="#">DividendConditions</a> &lt;/dividendConditions&gt; [0..1]</code>
<code>&lt;methodOfAdjustment&gt; <a href="#">MethodOfAdjustmentEnum</a> &lt;/methodOfAdjustment&gt; [1]</code>
<code>'Defines how adjustments will be made to the contract should one or more of the extraordinary events occur.'</code>
<code>&lt;extraordinaryEvents&gt; <a href="#">ExtraordinaryEvents</a> &lt;/extraordinaryEvents&gt; [1]</code>
<code>'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'</code>
<code>&lt;equityFeatures&gt; <a href="#">OptionFeatures</a> &lt;/equityFeatures&gt; [0..1]</code>
<code>'DEPRECATED This element will be removed in the next FpML major version. Use the "feature" element for option features such as asian, barrier, knock.'</code>
<code>&lt;/...&gt;</code>

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityDerivativeLongFormBase" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="EquityDerivativeBase">
      <xsd:sequence>
        <xsd:element name="dividendConditions" type="DividendConditions" minOccurs="0"/>
        <xsd:element name="methodOfAdjustment" type="MethodOfAdjustmentEnum"/>
        <xsd:element name="extraordinaryEvents" type="ExtraordinaryEvents"/>
        <xsd:element name="equityFeatures" type="OptionFeatures" minOccurs="0"
          deprecated="true" deprecatedReason="Option Features model is accessible in the complex
            type EquityDerivativeBase through the model group Feature.model"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: EquityDerivativeShortFormBase

Super-types:	<a href="#">Product</a> < <a href="#">EquityDerivativeBase</a> (by extension) < <b>EquityDerivativeShortFormBase</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">BrokerEquityOption</a> (by extension)</li><li><a href="#">EquityOptionTransactionSupplement</a> (by extension)</li></ul>

Name	EquityDerivativeShortFormBase
Abstract	yes
Documentation	A type for defining short form equity option basic features.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
```

```
ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'
```

```
<optionType> OptionTypeEnum </optionType> [1]
'The type of option transaction.'
```

```
<equityEffectiveDate> xsd:date </equityEffectiveDate> [0..1]
'Effective date for a forward starting option.'
```

```
<underlyer> Underlyer </underlyer> [1]
'Specifies the underlying component, which can be either one or many and consists in
either equity, index or convertible bond component, or a combination of these.'
```

```
<notional> Money </notional> [0..1]
'The notional amount.'
```

```
<equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]
'The parameters for defining how the equity option can be exercised, how it is valued and
how it is settled.'
```

```
Start Group: Feature.model [0..1]
  <feature> OptionFeatures </feature> [0..1]
  'Asian, Barrier, Knock and Pass Through features.'

  <fxFeature> FxFeature </fxFeature> [0..1]
  'Quanto, Composite, or Cross Currency FX features.'
```

```
End Group: Feature.model
<strategyFeature> StrategyFeature </strategyFeature> [0..1]
'A equity option simple strategy feature.'
```

```
<strike> EquityStrike </strike> [1]
'Defines whether it is a price or level at which the option has been, or will be, struck.'
```

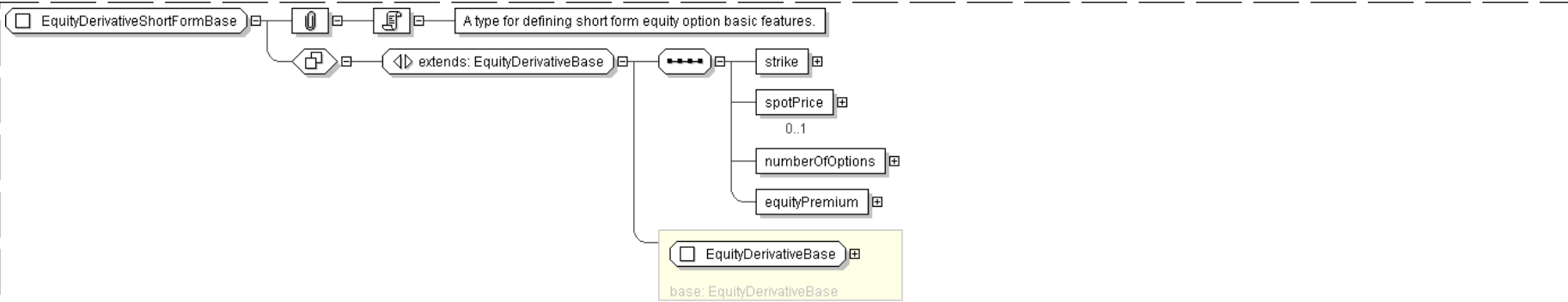
```
<spotPrice> NonNegativeDecimal </spotPrice> [0..1]
'The price per share, index or basket observed on the trade or effective date.'
```

```
<numberOfOptions> NonNegativeDecimal </numberOfOptions> [1]
'The number of options comprised in the option transaction.'
```

```
<equityPremium> EquityPremium </equityPremium> [1]
'The equity option premium payable by the buyer to the seller.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityDerivativeShortFormBase" abstract="true">
  <xsd:complexContent>
```

```
<xsd:extension base=" EquityDerivativeBase ">
  <xsd:sequence>
    <xsd:element name="strike" type=" EquityStrike "/>
    <xsd:element name="spotPrice" type=" NonNegativeDecimal " minOccurs="0"/>
    <xsd:element name="numberOfOptions" type=" NonNegativeDecimal "/>
    <xsd:element name="equityPremium" type=" EquityPremium "/>
  </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **EquityEuropeanExercise**

Super-types:	<a href="#">Exercise</a> < <b>EquityEuropeanExercise</b> (by extension)
Sub-types:	None
Name	EquityEuropeanExercise
Used by (from the same schema document)	Complex Type <a href="#">EquityExerciseValuationSettlement</a>
Abstract	no
Documentation	A type for defining exercise procedures associated with a European style exercise of an equity option.

XML Instance Representation

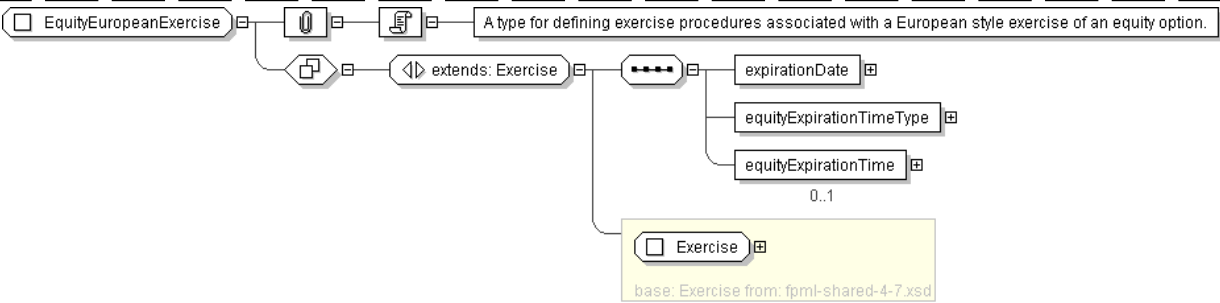
```
<...
id=" xsd:ID [0..1]">
  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

  <equityExpirationTimeType> TimeTypeEnum </equityExpirationTimeType> [1]
  'The time of day at which the equity option expires, for example the official closing time
  of the exchange.'

  <equityExpirationTime> BusinessCenterTime </equityExpirationTime> [0..1]
  'The specific time of day at which the equity option expires.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityEuropeanExercise">
  <xsd:complexContent>
    <xsd:extension base=" Exercise ">
      <xsd:sequence>
        <xsd:element name="expirationDate" type=" AdjustableOrRelativeDate "/>
        <xsd:element name="equityExpirationTimeType" type=" TimeTypeEnum "/>
        <xsd:element name="equityExpirationTime" type=" BusinessCenterTime " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



Complex Type: **EquityExerciseValuationSettlement**

Super-types:	None
Sub-types:	None
Name	EquityExerciseValuationSettlement
Used by (from the same schema document)	Complex Type <a href="#">EquityDerivativeBase</a>
Abstract	no
Documentation	A type for defining exercise procedures for equity options.

XML Instance Representation

```
<...>
  Start Choice [1]
    <equityEuropeanExercise> EquityEuropeanExercise </equityEuropeanExercise> [1]
      'The parameters for defining the expiration date and time for a European style equity option.'EquityAmericanExercise </equityAmericanExercise> [1]
      'The parameters for defining the exercise period for an American style equity option
      together with the rules governing the quantity of the underlying that can be exercised on
      any given exercise date.'EquityBermudaExercise </equityBermudaExercise> [1]
      'The parameters for defining the exercise period for an Bermuda style equity option
      together with the rules governing the quantity of the underlying that can be exercised on
      any given exercise date.'xsd:boolean </automaticExercise> [1]
      'If true then each option not previously exercised will be deemed to be exercised at
      the expiration time on the expiration date without service of notice unless the buyer
      notifies the seller that it no longer wishes this to occur.'MakeWholeProvisions </makeWholeProvisions> [0..1]
      'Provisions covering early exercise of option.'PrePayment </prePayment> [1]
      'Prepayment features for Forward.'EquityValuation </equityValuation> [1]
    'The parameters for defining when valuation of the underlying takes place.'

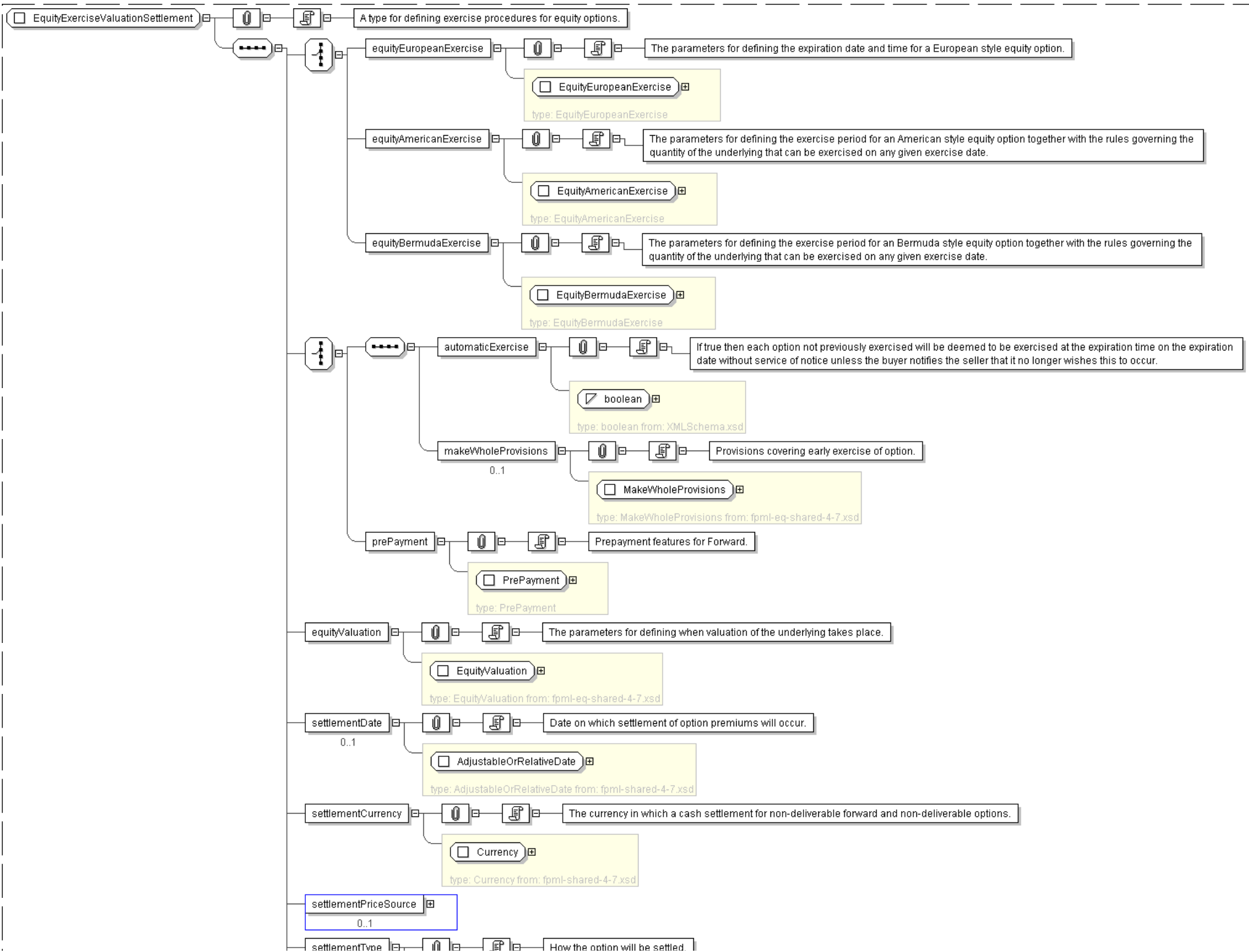
  <settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
    'Date on which settlement of option premiums will occur.'

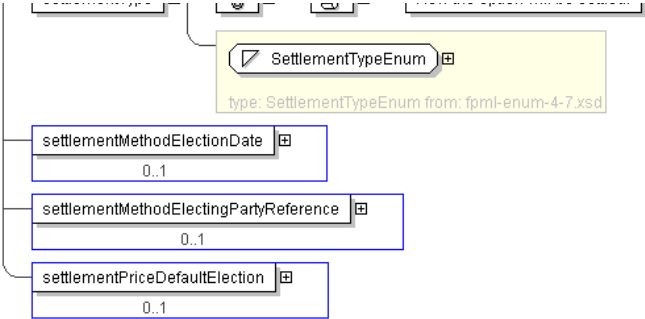
  <settlementCurrency> Currency </settlementCurrency> [1]
    'The currency in which a cash settlement for non-deliverable forward and non-
    deliverable options.'

  <settlementPriceSource> SettlementPriceSource </settlementPriceSource> [0..1]
  <settlementType> SettlementTypeEnum </settlementType> [1]
    'How the option will be settled.'

  <settlementMethodElectionDate> AdjustableOrRelativeDate </settlementMethodElectionDate> [0..1]
  <settlementMethodElectingPartyReference> PartyReference
  </settlementMethodElectingPartyReference> [0..1]
  <settlementPriceDefaultElection> SettlementPriceDefaultElection
  </settlementPriceDefaultElection> [0..1]
</...>
```

## Diagram





Schema Component Representation

```
<xsd:complexType name="EquityExerciseValuationSettlement">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="equityEuropeanExercise" type="EquityEuropeanExercise"/>
      <xsd:element name="equityAmericanExercise" type="EquityAmericanExercise"/>
      <xsd:element name="equityBermudaExercise" type="EquityBermudaExercise"/>
    </xsd:choice>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="automaticExercise" type="xsd:boolean"/>
        <xsd:element name="makeWholeProvisions" type="MakeWholeProvisions" minOccurs="0"/>
      </xsd:sequence>
      <xsd:element name="prePayment" type="PrePayment"/>
    </xsd:choice>
    <xsd:element name="equityValuation" type="EquityValuation"/>
    <xsd:element name="settlementDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
    <xsd:element name="settlementCurrency" type="Currency"/>
    <xsd:element name="settlementPriceSource" type="SettlementPriceSource" minOccurs="0"/>
    <xsd:element name="settlementType" type="SettlementTypeEnum"/>
    <xsd:element name="settlementMethodElectionDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
    <xsd:element name="settlementMethodElectingPartyReference" type="PartyReference" minOccurs="0"/>
    <xsd:element name="settlementPriceDefaultElection" type="SettlementPriceDefaultElection" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **EquityForward**

Super-types:	<a href="#">Product</a> < <a href="#">EquityDerivativeBase</a> (by extension) < <a href="#">EquityDerivativeLongFormBase</a> (by extension) < <b>EquityForward</b> (by extension)
Sub-types:	None
Name	EquityForward
Used by (from the same schema document)	Element <a href="#">equityForward</a>
Abstract	no
Documentation	A type for defining equity forwards.

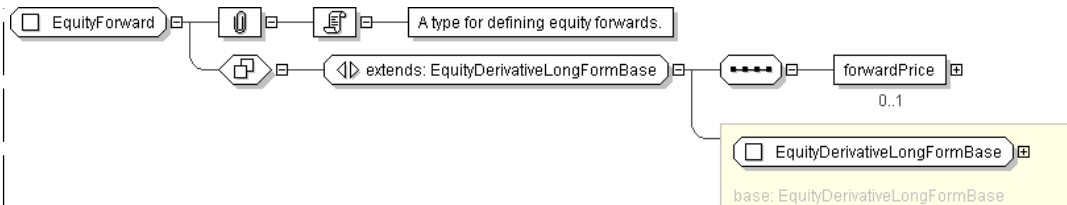
XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
```

not strictly an enumerated list.'
<buyerPartyReference> <a href="#">PartyOrTradeSideReference</a> </buyerPartyReference> [1]
'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'
<sellerPartyReference> <a href="#">PartyOrTradeSideReference</a> </sellerPartyReference> [1]
'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'
<optionType> <a href="#">OptionTypeEnum</a> </optionType> [1]
'The type of option transaction.'
<equityEffectiveDate> <a href="#">xsd:date</a> </equityEffectiveDate> [0..1]
'Effective date for a forward starting option.'
<underlyer> <a href="#">Underlyer</a> </underlyer> [1]
'Specifies the underlying component, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'
<notional> <a href="#">Money</a> </notional> [0..1]
'The notional amount.'
<equityExercise> <a href="#">EquityExerciseValuationSettlement</a> </equityExercise> [1]
'The parameters for defining how the equity option can be exercised, how it is valued and how it is settled.'
Start Group: <a href="#">Feature.model</a> [0..1]
<feature> <a href="#">OptionFeatures</a> </feature> [0..1]
'Asian, Barrier, Knock and Pass Through features.'
<fxFeature> <a href="#">FxFeature</a> </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features.'
End Group: <a href="#">Feature.model</a>
<strategyFeature> <a href="#">StrategyFeature</a> </strategyFeature> [0..1]
'A equity option simple strategy feature.'
<dividendConditions> <a href="#">DividendConditions</a> </dividendConditions> [0..1]
<methodOfAdjustment> <a href="#">MethodOfAdjustmentEnum</a> </methodOfAdjustment> [1]
'Defines how adjustments will be made to the contract should one or more of the extraordinary events occur.'
<extraordinaryEvents> <a href="#">ExtraordinaryEvents</a> </extraordinaryEvents> [1]
'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'
<equityFeatures> <a href="#">OptionFeatures</a> </equityFeatures> [0..1]
'DEPRECATED This element will be removed in the next FpML major version. Use the "feature" element for option features such as asian, barrier, knock.'
<forwardPrice> <a href="#">Money</a> </forwardPrice> [0..1]
'The forward price per share, index or basket.'
</...>

Diagram



### Schema Component Representation

```
<xsd:complexType name="EquityForward">
  <xsd:complexContent>
    <xsd:extension base=" EquityDerivativeLongFormBase " >
      <xsd:sequence>
        <xsd:element name="forwardPrice" type=" Money " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **EquityMultipleExercise**

<i>Super-types:</i>	None
<i>Sub-types:</i>	None

Name	EquityMultipleExercise
Used by (from the same schema document)	Complex Type <a href="#">EquityAmericanExercise</a> , Complex Type <a href="#">EquityBermudaExercise</a>
Abstract	no
Documentation	A type for defining the multiple exercise provisions of an American or Bermuda style equity option.

### XML Instance Representation

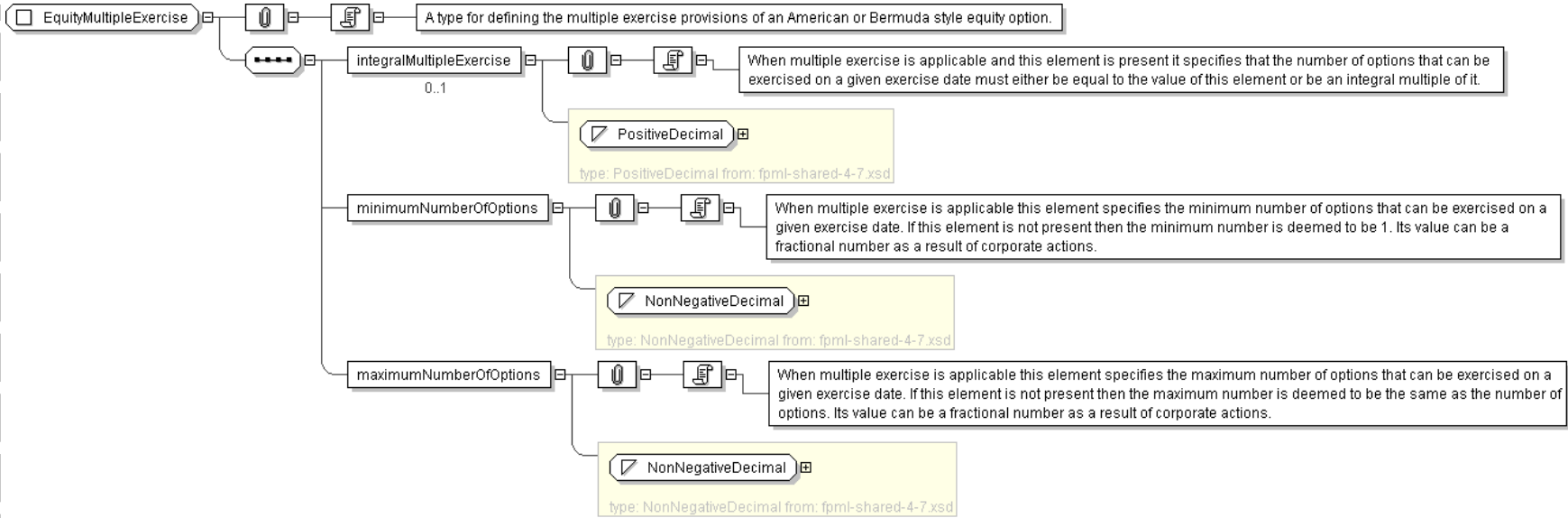
```
<...>
<integralMultipleExercise> PositiveDecimal </integralMultipleExercise> [0..1]
'When multiple exercise is applicable and this element is present it specifies that the
number of options that can be exercised on a given exercise date must either be equal to
the value of this element or be an integral multiple of it.'

<minimumNumberOfOptions> NonNegativeDecimal </minimumNumberOfOptions> [1]
'When multiple exercise is applicable this element specifies the minimum number of options
that can be exercised on a given exercise date. If this element is not present then the
minimum number is deemed to be 1. Its value can be a fractional number as a result of
corporate actions.'

<maximumNumberOfOptions> NonNegativeDecimal </maximumNumberOfOptions> [1]
'When multiple exercise is applicable this element specifies the maximum number of options
that can be exercised on a given exercise date. If this element is not present then the
maximum number is deemed to be the same as the number of options. Its value can be a
fractional number as a result of corporate actions.'

</...>
```

### Diagram



Schema Component Representation

```
<xsd:complexType name="EquityMultipleExercise">
  <xsd:sequence>
    <xsd:element name="integralMultipleExercise" type="PositiveDecimal" minOccurs="0"/>
    <xsd:element name="minimumNumberOfOptions" type="NonNegativeDecimal"/>
    <xsd:element name="maximumNumberOfOptions" type="NonNegativeDecimal"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: EquityOption

Super-types:	<a href="#">Product</a> < <a href="#">EquityDerivativeBase</a> (by extension) < <a href="#">EquityDerivativeLongFormBase</a> (by extension) < <b>EquityOption</b> (by extension)
Sub-types:	None
Name	EquityOption
Used by (from the same schema document)	Element <a href="#">equityOption</a>
Abstract	no
Documentation	A type for defining equity options.

XML Instance Representation

```
<...
  id="xsd:ID [0..1]">
    <productType> ProductType </productType> [0..*]
    'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

    <productId> ProductId </productId> [0..*]
    'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

    <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
    'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'
```

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'A reference to the party that sells (\writes\") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

<optionType> [OptionTypeEnum](#) </optionType> [1]

'The type of option transaction.'

<equityEffectiveDate> [xsd:date](#) </equityEffectiveDate> [0..1]

'Effective date for a forward starting option.'

<underlyer> [Underlyer](#) </underlyer> [1]

'Specifies the underlying component, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'

<notional> [Money](#) </notional> [0..1]

'The notional amount.'

<equityExercise> [EquityExerciseValuationSettlement](#) </equityExercise> [1]

'The parameters for defining how the equity option can be exercised, how it is valued and how it is settled.'

Start Group: [Feature.model](#) [0..1]

<feature> [OptionFeatures](#) </feature> [0..1]

'Asian, Barrier, Knock and Pass Through features.'

<fxFeature> [FxFeature](#) </fxFeature> [0..1]

'Quanto, Composite, or Cross Currency FX features.'

End Group: [Feature.model](#)

<strategyFeature> [StrategyFeature](#) </strategyFeature> [0..1]

'A equity option simple strategy feature.'

<dividendConditions> [DividendConditions](#) </dividendConditions> [0..1]

<methodOfAdjustment> [MethodOfAdjustmentEnum](#) </methodOfAdjustment> [1]

'Defines how adjustments will be made to the contract should one or more of the extraordinary events occur.'

<extraordinaryEvents> [ExtraordinaryEvents](#) </extraordinaryEvents> [1]

'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'

<equityFeatures> [OptionFeatures](#) </equityFeatures> [0..1]

'DEPRECATED This element will be removed in the next FpML major version. Use the \"feature\" element for option features such as asian, barrier, knock.'

<strike> [EquityStrike](#) </strike> [0..1]

'Defines whether it is a price or level at which the option has been, or will be, struck.'

<spotPrice> [NonNegativeDecimal](#) </spotPrice> [0..1]

'The price per share, index or basket observed on the trade or effective date.'

<numberOfOptions> [NonNegativeDecimal](#) </numberOfOptions> [0..1]

'The number of options comprised in the option transaction.'

<optionEntitlement> [PositiveDecimal](#) </optionEntitlement> [1]

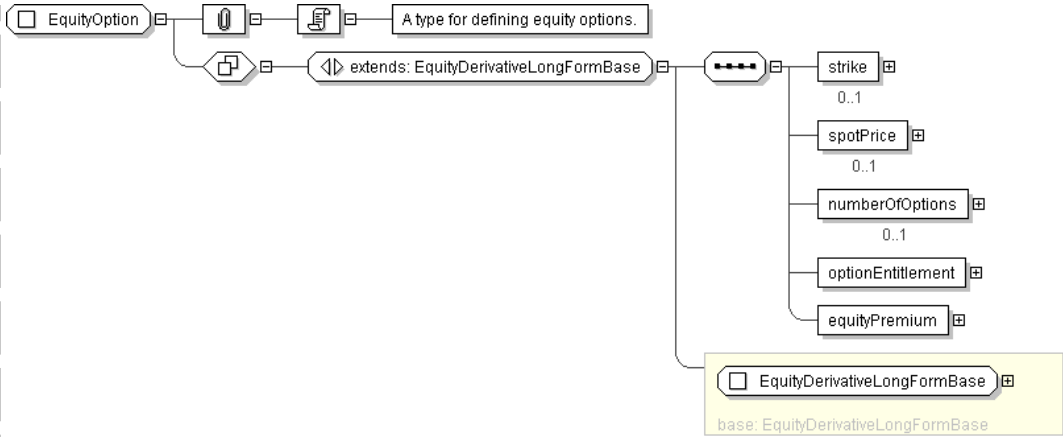
'The number of shares per option comprised in the option transaction.'

<equityPremium> [EquityPremium](#) </equityPremium> [1]

'The equity option premium payable by the buyer to the seller.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityOption">
  <xsd:complexContent>
    <xsd:extension base="EquityDerivativeLongFormBase" />
    <xsd:sequence>
      <xsd:element name="strike" type="EquityStrike" minOccurs="0"/>
      <xsd:element name="spotPrice" type="NonNegativeDecimal" minOccurs="0"/>
      <xsd:element name="numberOfOptions" type="NonNegativeDecimal" minOccurs="0"/>
      <xsd:element name="optionEntitlement" type="PositiveDecimal" />
      <xsd:element name="equityPremium" type="EquityPremium" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

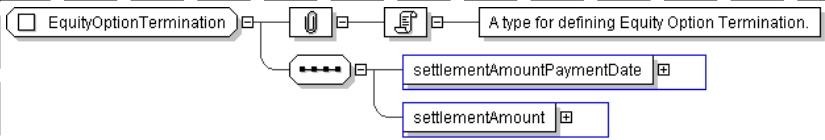
Complex Type: **EquityOptionTermination**

Super-types:	None
Sub-types:	None
Name	EquityOptionTermination
Abstract	no
Documentation	A type for defining Equity Option Termination.

XML Instance Representation

```
<...>
  <settlementAmountPaymentDate> AdjustableDate </settlementAmountPaymentDate> [1]
  <settlementAmount> Money </settlementAmount> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityOptionTermination">
  <xsd:sequence>
    <xsd:element name="settlementAmountPaymentDate" type="AdjustableDate" />
  </xsd:sequence>
</xsd:complexType>
```



Complex Type: **EquityOptionTransactionSupplement**

Super-types:	<a href="#">Product</a> < <a href="#">EquityDerivativeBase</a> (by extension) < <a href="#">EquityDerivativeShortFormBase</a> (by extension) < <b>EquityOptionTransactionSupplement</b>
Sub-types:	None
Name	EquityOptionTransactionSupplement
Used by (from the same schema document)	Element <a href="#">equityOptionTransactionSupplement</a>
Abstract	no
Documentation	A type for defining equity option transaction supplements.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction.'

  <equityEffectiveDate> xsd:date </equityEffectiveDate> [0..1]
  'Effective date for a forward starting option.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlying component, which can be either one or many and consists in
  either equity, index or convertible bond component, or a combination of these.'

  <notional> Money </notional> [0..1]
  'The notional amount.'

  <equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]
  'The parameters for defining how the equity option can be exercised, how it is valued and
  how it is settled.'

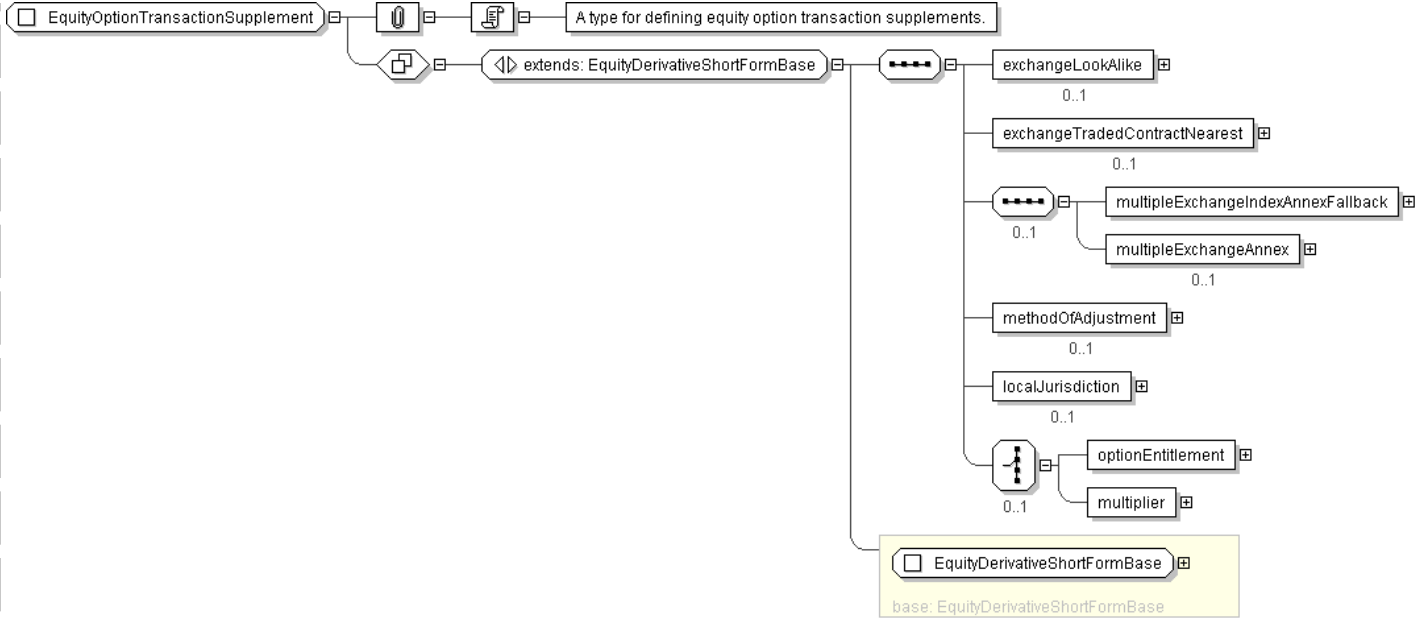
Start Group: Feature.model [0..1]
  <feature> OptionFeatures </feature> [0..1]
  'Asian, Barrier, Knock and Pass Through features.'

  <fxFeature> FxFeature </fxFeature> [0..1]
  'Quanto, Composite, or Cross Currency FX features.'

End Group: Feature.model
```

<strategyFeature> <a href="#">StrategyFeature</a> </strategyFeature> [0..1]	'A equity option simple strategy feature.'
<strike> <a href="#">EquityStrike</a> </strike> [1]	'Defines whether it is a price or level at which the option has been, or will be, struck.'
<spotPrice> <a href="#">NonNegativeDecimal</a> </spotPrice> [0..1]	'The price per share, index or basket observed on the trade or effective date.'
<numberOfOptions> <a href="#">NonNegativeDecimal</a> </numberOfOptions> [1]	'The number of options comprised in the option transaction.'
<equityPremium> <a href="#">EquityPremium</a> </equityPremium> [1]	'The equity option premium payable by the buyer to the seller.'
<exchangeLookAlike> <a href="#">xsd:boolean</a> </exchangeLookAlike> [0..1]	'For a share option transaction, a flag used to indicate whether the transaction is to be treated as an \'exchange look-alike\'. This designation has significance for how share adjustments (arising from corporate actions) will be determined for the transaction. For an \'exchange look-alike\' transaction the relevant share adjustments will follow that for a corresponding designated contract listed on the related exchange (referred to as Options Exchange Adjustment (ISDA defined term), otherwise the share adjustments will be determined by the calculation agent (referred to as Calculation Agent Adjustment (ISDA defined term)).'
<exchangeTradedContractNearest> <a href="#">xsd:boolean</a> </exchangeTradedContractNearest> [0..1]	'For an index option transaction, a flag used in conjunction with Futures Price Valuation (ISDA defined term) to indicate whether the Nearest Index Contract provision is applicable. The Nearest Index Contract provision is a rule for determining the Exchange-traded Contract (ISDA defined term) without having to explicitly state the actual contract, delivery month and exchange on which it is traded.'
Start <a href="#">Sequence</a> [0..1]	
<multipleExchangeIndexAnnexFallback> <a href="#">xsd:boolean</a> </multipleExchangeIndexAnnexFallback> [1]	'For an index option transaction, a flag to indicate whether a relevant Multiple Exchange Index Annex is applicable to the transaction. This annex defines additional provisions which are applicable where an index is comprised of component securities that are traded on multiple exchanges.'
<multipleExchangeAnnex> <a href="#">MultipleExchangeAnnex</a> </multipleExchangeAnnex> [0..1]	'Used for Used for explicitly specifying additional provisions which are applicable where an index is comprised of component securities that are traded on multiple exchanges.'
End <a href="#">Sequence</a>	
<methodOfAdjustment> <a href="#">MethodOfAdjustmentEnum</a> </methodOfAdjustment> [0..1]	
<localJurisdiction> <a href="#">Country</a> </localJurisdiction> [0..1]	'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties, and similar charges imposed by the taxing authority of the Local Jurisdiction If this element is not present Local Jurisdiction is Not Applicable.'
Start <a href="#">Choice</a> [0..1]	
<optionEntitlement> <a href="#">PositiveDecimal</a> </optionEntitlement> [1]	'The number of shares per option comprised in the option transaction supplement.'
<multiplier> <a href="#">PositiveDecimal</a> </multiplier> [1]	'Specifies the contract multiplier that can be associated with an index option.'
End <a href="#">Choice</a>	
</...>	

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityOptionTransactionSupplement">
  <xsd:complexContent>
    <xsd:extension base="EquityDerivativeShortFormBase">
      <xsd:sequence>
        <xsd:element name="exchangeLookAlike" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="exchangeTradedContractNearest" type="xsd:boolean" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="multipleExchangeIndexAnnexFallback" type="xsd:boolean"/>
          <xsd:element name="multipleExchangeAnnex" type="MultipleExchangeAnnex" minOccurs="0"/>
        </xsd:sequence>
        <xsd:element name="methodOfAdjustment" type="MethodOfAdjustmentEnum" minOccurs="0"/>
        <xsd:element name="localJurisdiction" type="Country" minOccurs="0"/>
        <xsd:choice minOccurs="0">
          <xsd:element name="optionEntitlement" type="PositiveDecimal"/>
          <xsd:element name="multiplier" type="PositiveDecimal"/>
        </xsd:choice>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **PrePayment**

Super-types:	<a href="#">PaymentBase</a> < <b>PrePayment</b> (by extension)
Sub-types:	None
Name	PrePayment
Used by (from the same schema document)	Complex Type <a href="#">EquityExerciseValuationSettlement</a>
Abstract	no
Documentation	A type for defining PrePayment.

XML Instance Representation

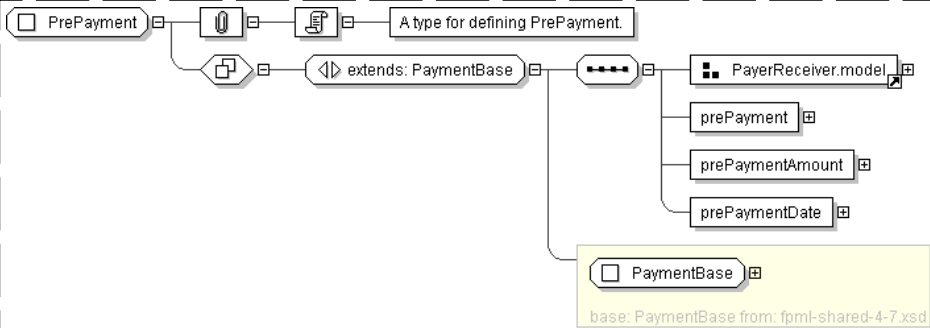
```
<...
  id="xsd:ID [0..1]">
```

```
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

<prePayment> xsd:boolean </prePayment> [1]
<prePaymentAmount> Money </prePaymentAmount> [1]
<prePaymentDate> AdjustableDate </prePaymentDate> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrePayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:group ref="PayerReceiver.model"/>
        <xsd:element name="prePayment" type="xsd:boolean"/>
        <xsd:element name="prePaymentAmount" type="Money"/>
        <xsd:element name="prePaymentDate" type="AdjustableDate"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
```

```
. Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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  - Complex Type: [InterestLegResetDates](#)
  - Complex Type: [LegAmount](#)
  - Complex Type: [LegId](#)
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  - Complex Type: [ReturnSwapAmount](#)
  - Complex Type: [ReturnSwapBase](#)
  - Complex Type: [ReturnSwapEarlyTermination](#)
  - Complex Type: [ReturnSwapLeg](#)

Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6824 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-option-shared-4-7.xsd</a></li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6824 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-option-shared-4-7.xsd" />
  ...
</xsd:schema>
```

Global Declarations

Element: **InterestLeg**

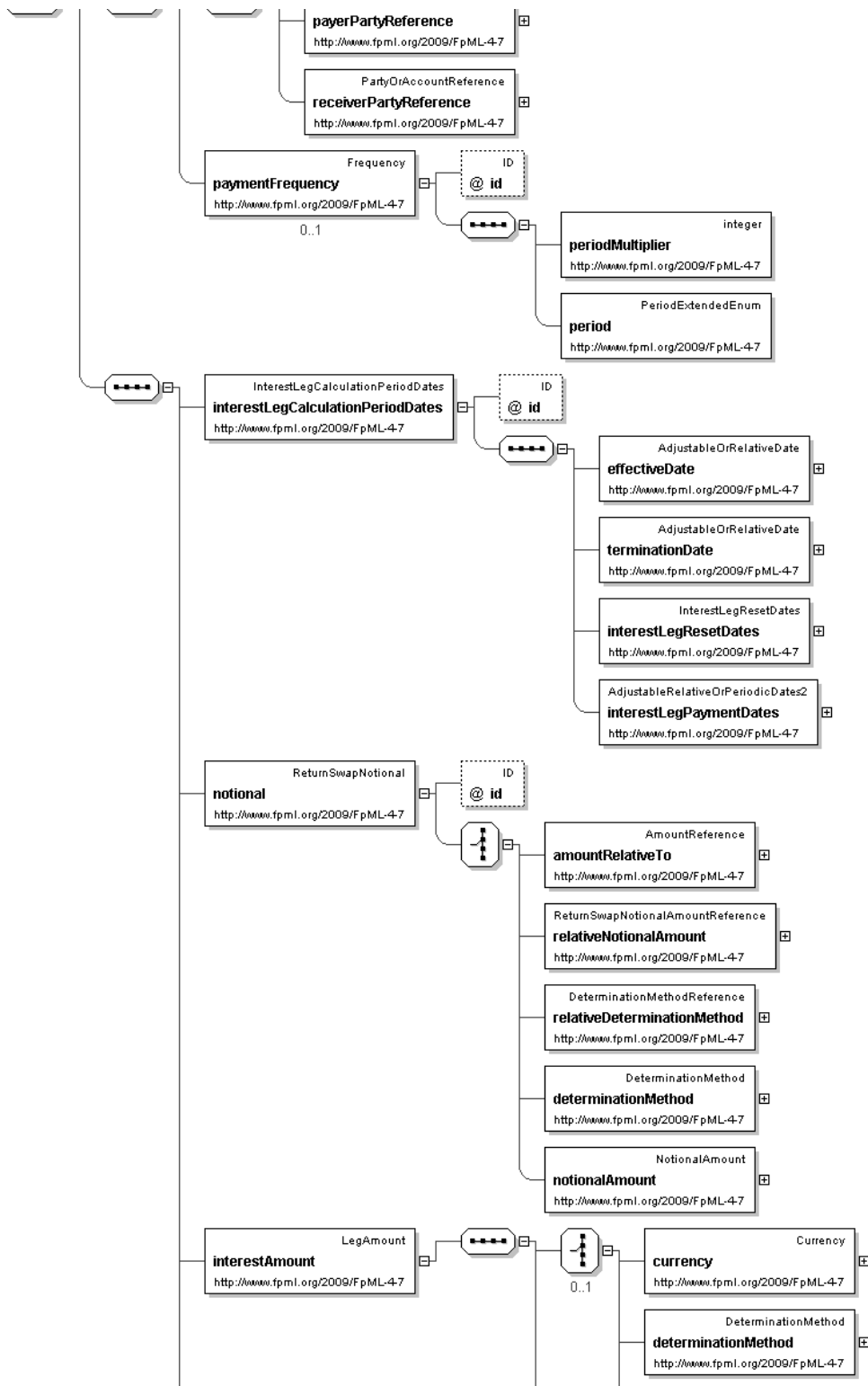
- This element can be used wherever the following element is referenced:
  - [returnSwapLeg](#)

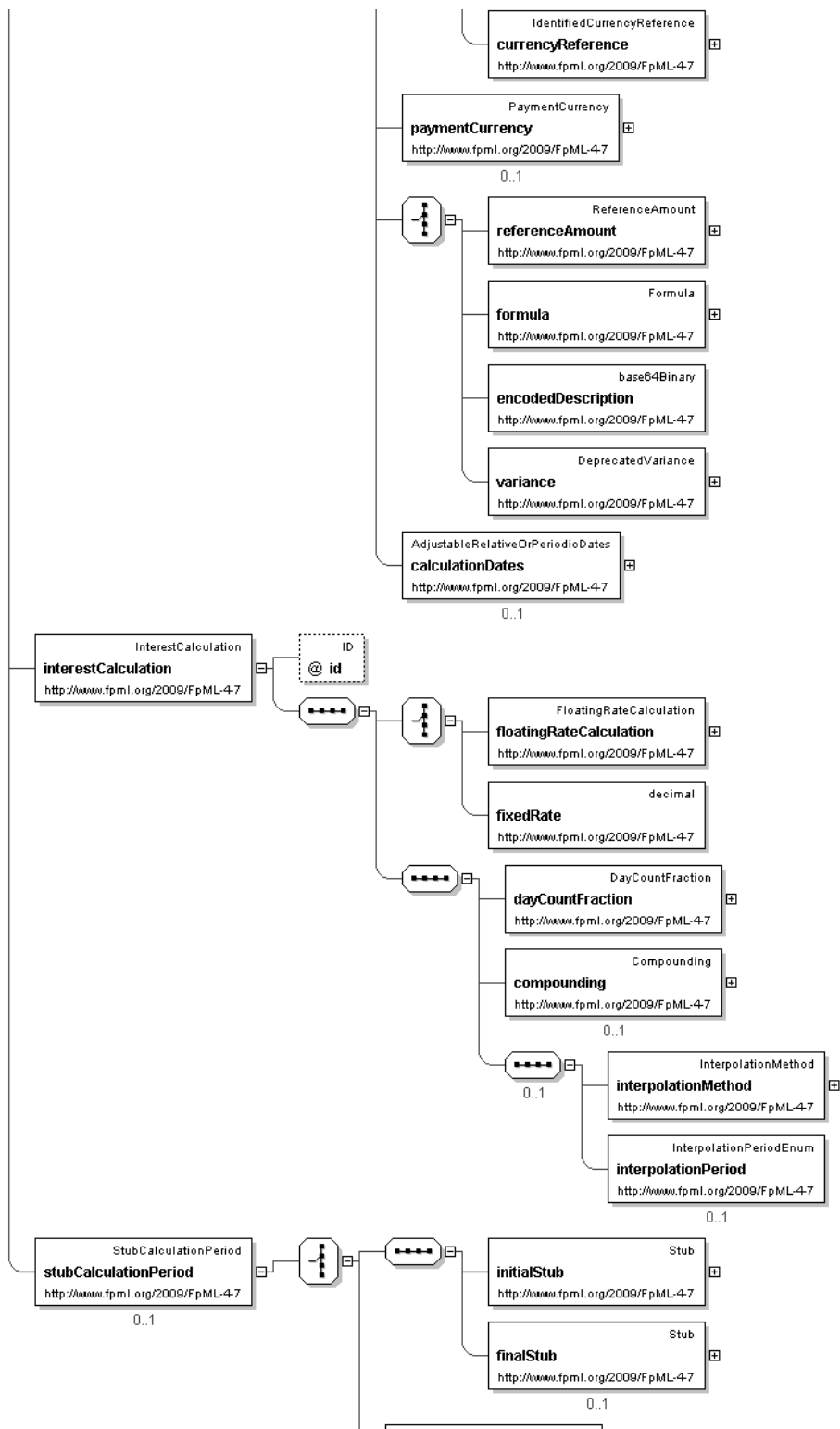
Name	interestLeg
Type	<a href="#">InterestLeg</a>
Niltable	no
Abstract	no
Documentation	The fixed income amounts of the return type swap.

Logical Diagram









XML Instance Representation

```
<interestLeg
  legIdentifier=" xsd:ID [0..1]
'DEPRECATED This element will be renamed to id in the next major FpML version.'
">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentFrequency> Frequency </paymentFrequency> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Frequency at which this leg pays.'

  <interestLegCalculationPeriodDates> InterestLegCalculationPeriodDates
</interestLegCalculationPeriodDates> [1]
'Component that holds the various dates used to specify the interest leg of the equity swap. It is used to define the InterestPeriodDates identifier.'

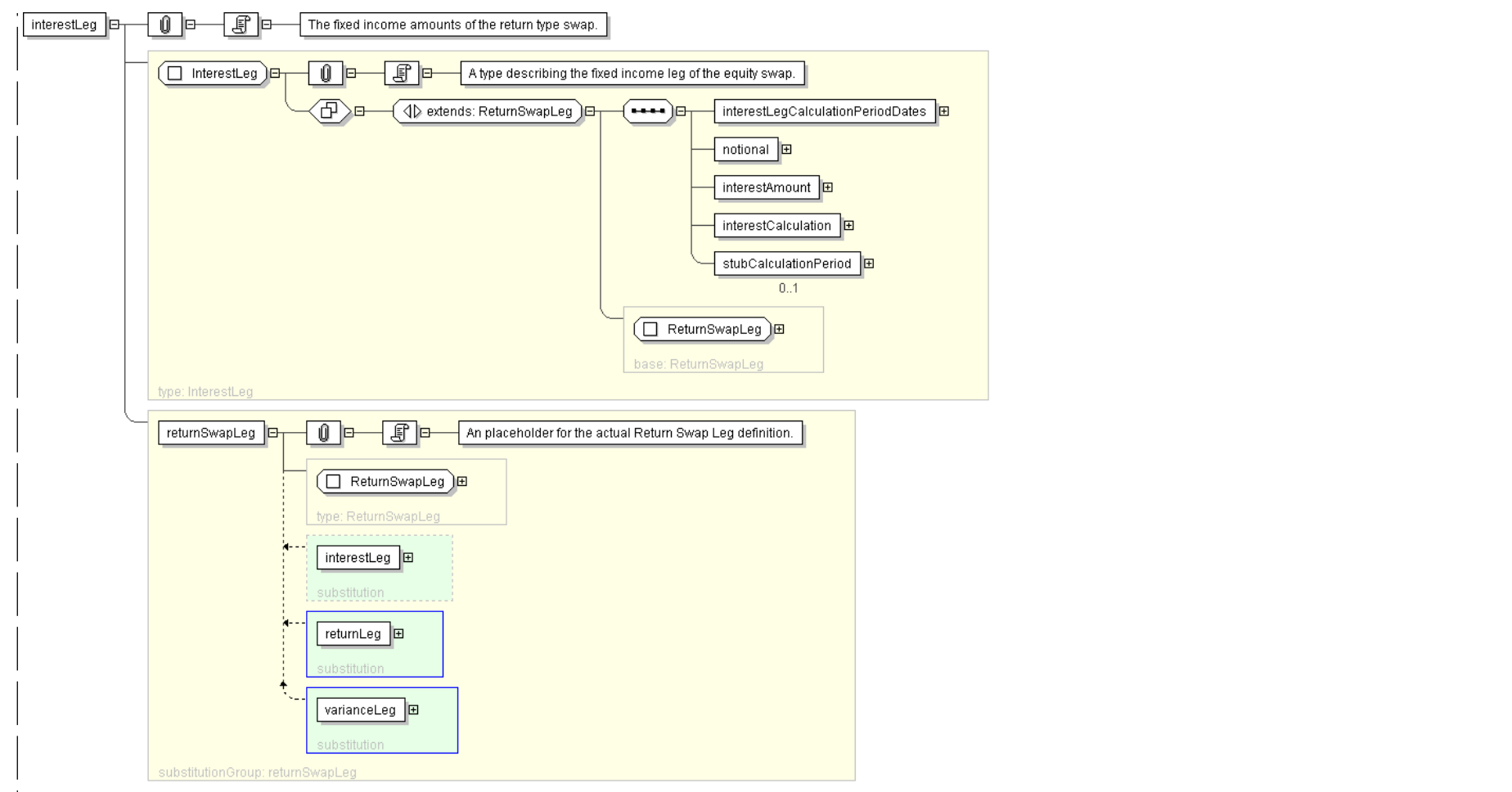
  <notional> ReturnSwapNotional </notional> [1]
  'Specifies the notional of a return type swap. When used in the equity leg, the definition will typically combine the actual amount (using the notional component defined by the FpML industry group) and the determination method. When used in the interest leg, the definition will typically point to the definition of the equity leg.'

  <interestAmount> LegAmount </interestAmount> [1]
  'Specifies, in relation to each Interest Payment Date, the amount to which the Interest Payment Date relates. Unless otherwise specified, this term has the meaning defined in the ISDA 2000 ISDA Definitions.'

  <interestCalculation> InterestCalculation </interestCalculation> [1]
  'Specifies the calculation method of the interest rate leg of the equity swap. Includes the floating or fixed rate calculation definitions, along with the determination of the day count fraction.'

  <stubCalculationPeriod> StubCalculationPeriod </stubCalculationPeriod> [0..1]
  'Specifies the stub calculation period.'
</interestLeg>
```

Diagram



Schema Component Representation

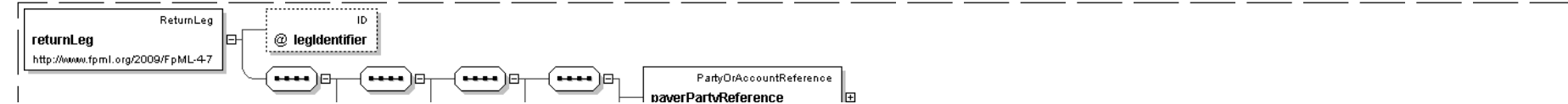
```
<xsd:element name="interestLeg" type="InterestLeg" substitutionGroup="returnSwapLeg"/>
```

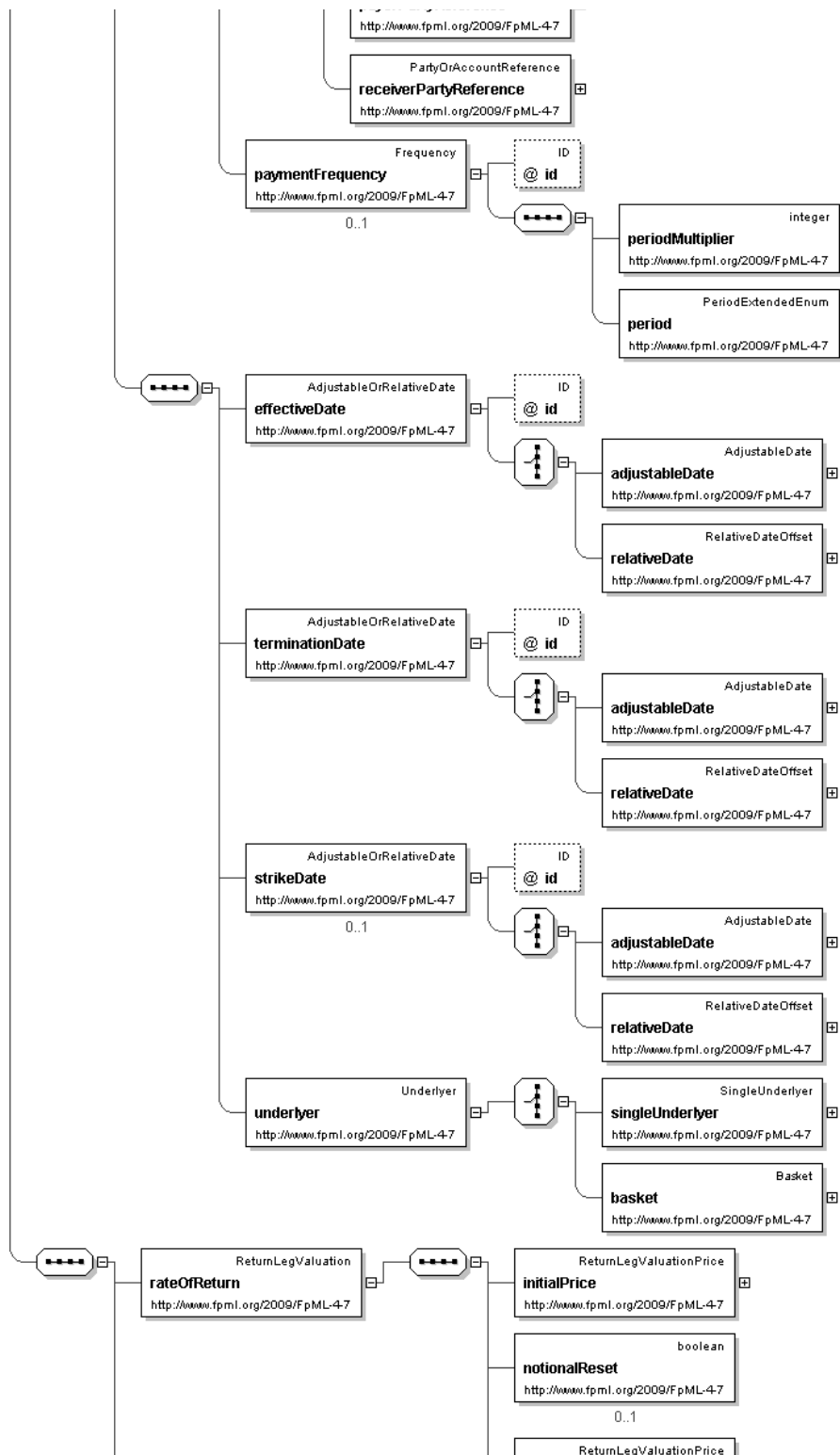
Element: **returnLeg**

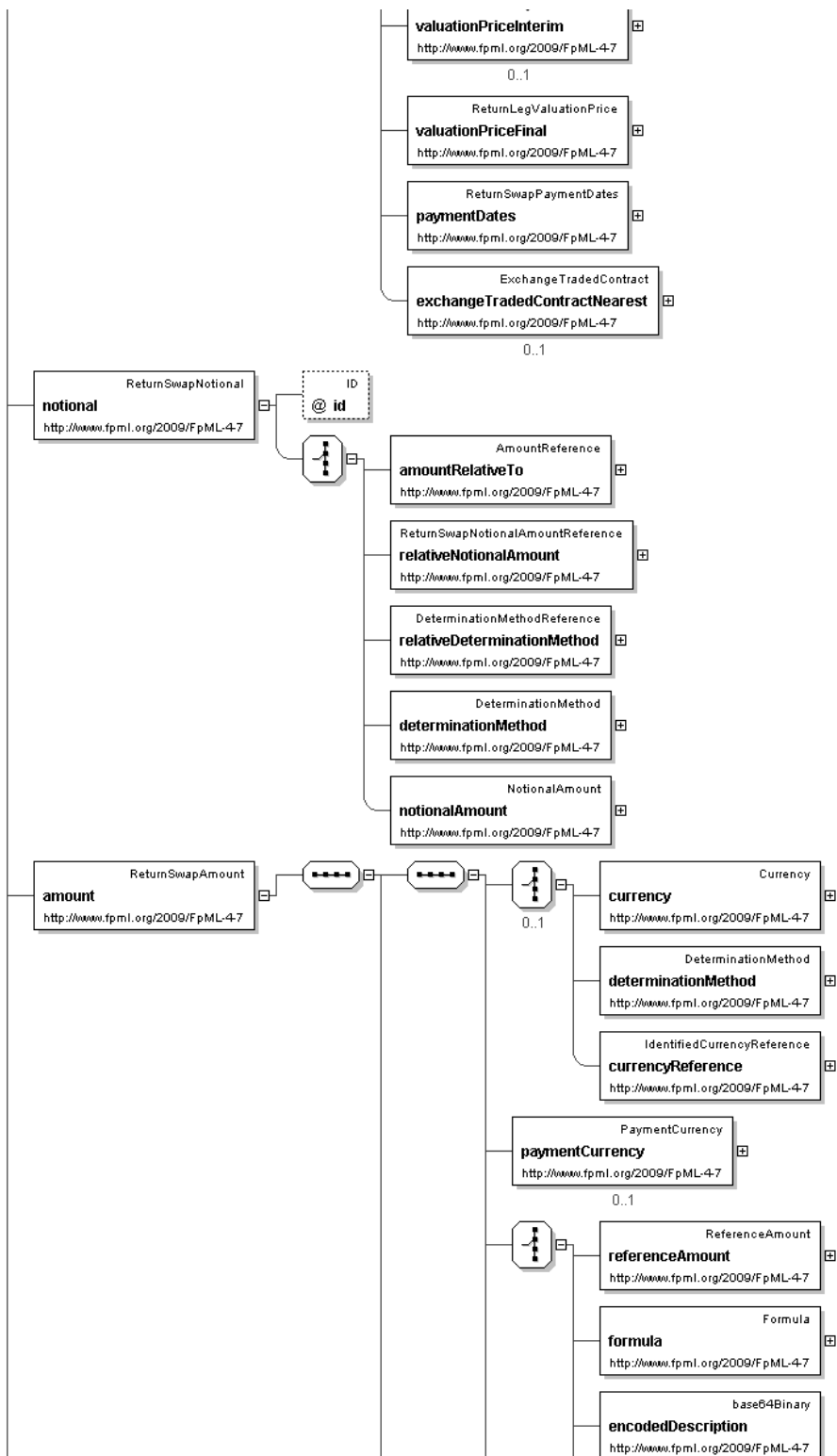
- This element can be used wherever the following element is referenced:
  - [returnSwapLeg](#)

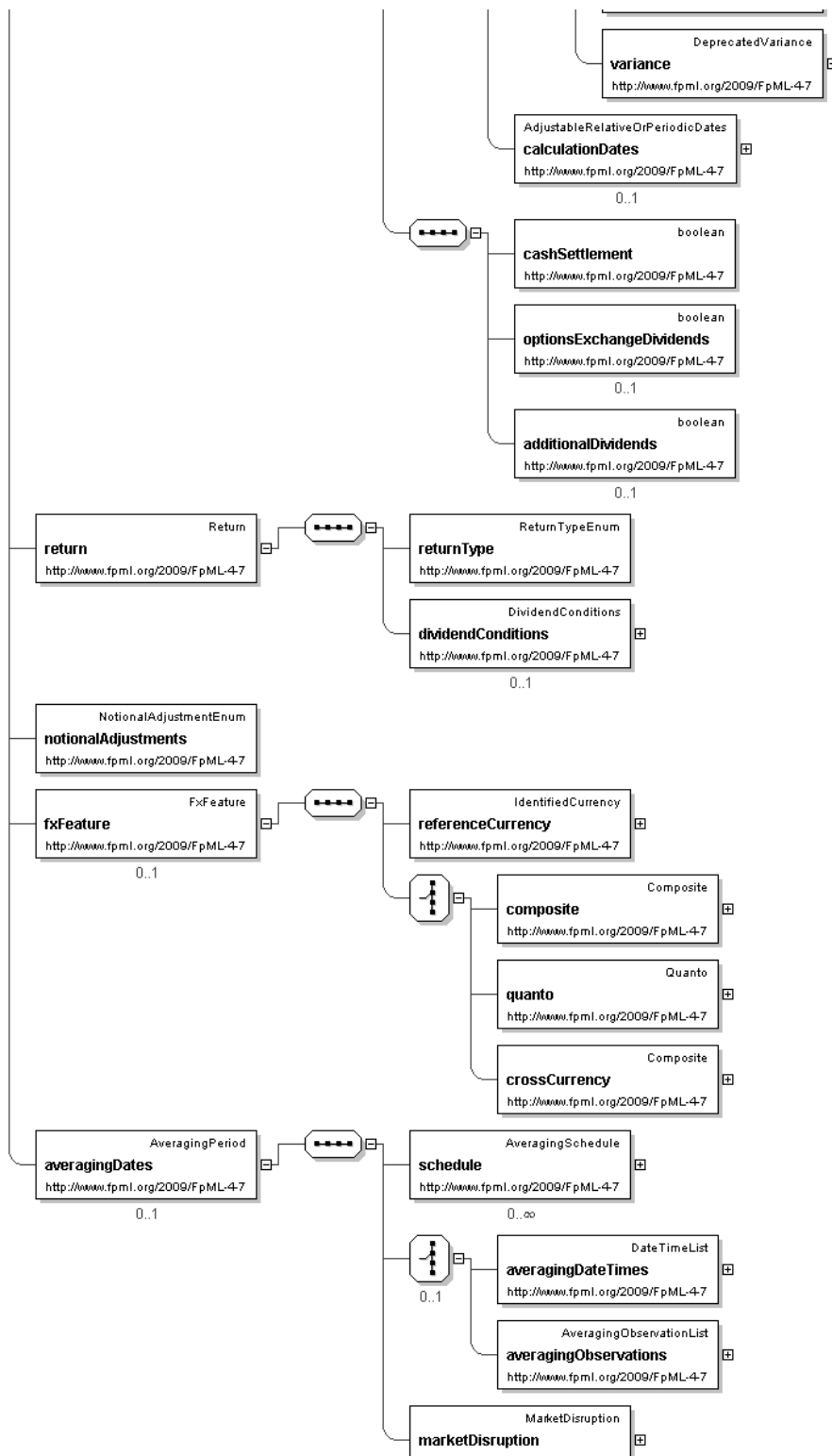
Name	returnLeg
Type	<a href="#">ReturnLeg</a>
Nilable	no
Abstract	no
Documentation	Return amounts of the return type swap.

Logical Diagram









## XML Instance Representation

```

<returnLeg
  legIdentifier=" xsd:ID [0..1]
'DEPRECATED This element will be renamed to id in the next major FpML version.'
">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

  <paymentFrequency> Frequency </paymentFrequency> [0..1]
'DEPRECATED This element will be removed in the next FpML major version. Frequency at which this leg pays.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
'Specifies the effective date of this leg of the swap. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
'Specifies the termination date of this leg of the swap. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically point to the termination date of the other leg of the swap.'

  <strikeDate> AdjustableOrRelativeDate </strikeDate> [0..1]
'Specifies the strike date of this leg of the swap, used for forward starting swaps. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically by relative to the trade date of the swap.'

  <underlyer> Underlyer </underlyer> [1]
'Specifies the underlying component of the leg, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'

  <rateOfReturn> ReturnLegValuation </rateOfReturn> [1]
'Element named \"valuation\" in versions prior to FpML 4.2 Second Working Draft. Specifies the terms of the initial price of the return type swap and of the subsequent valuations of the underlyer.'

  <notional> ReturnSwapNotional </notional> [1]
'Specifies the notional of a return type swap. When used in the equity leg, the definition will typically combine the actual amount (using the notional component defined by the FpML industry group) and the determination method. When used in the interest leg, the definition will typically point to the definition of the equity leg.'

  <amount> ReturnSwapAmount </amount> [1]
'Element named \"equityAmount\" in versions prior to FpML 4.2 Second Working Draft. Specifies, in relation to each Payment Date, the amount to which the Payment Date relates. For equity swaps this element is equivalent to the Equity Amount term as defined in the ISDA 2002 Equity Derivatives Definitions.'

  <return> Return </return> [1]
'Specifies the conditions under which dividend affecting the underlyer will be paid to the receiver of the amounts.'

  <notionalAdjustments> NotionalAdjustmentEnum </notionalAdjustments> [1]
'Specifies the conditions that govern the adjustment to the number of units of the equity swap.'

  <fxFeature> FxFeature </fxFeature> [0..1]
'A quanto or composite FX feature.'

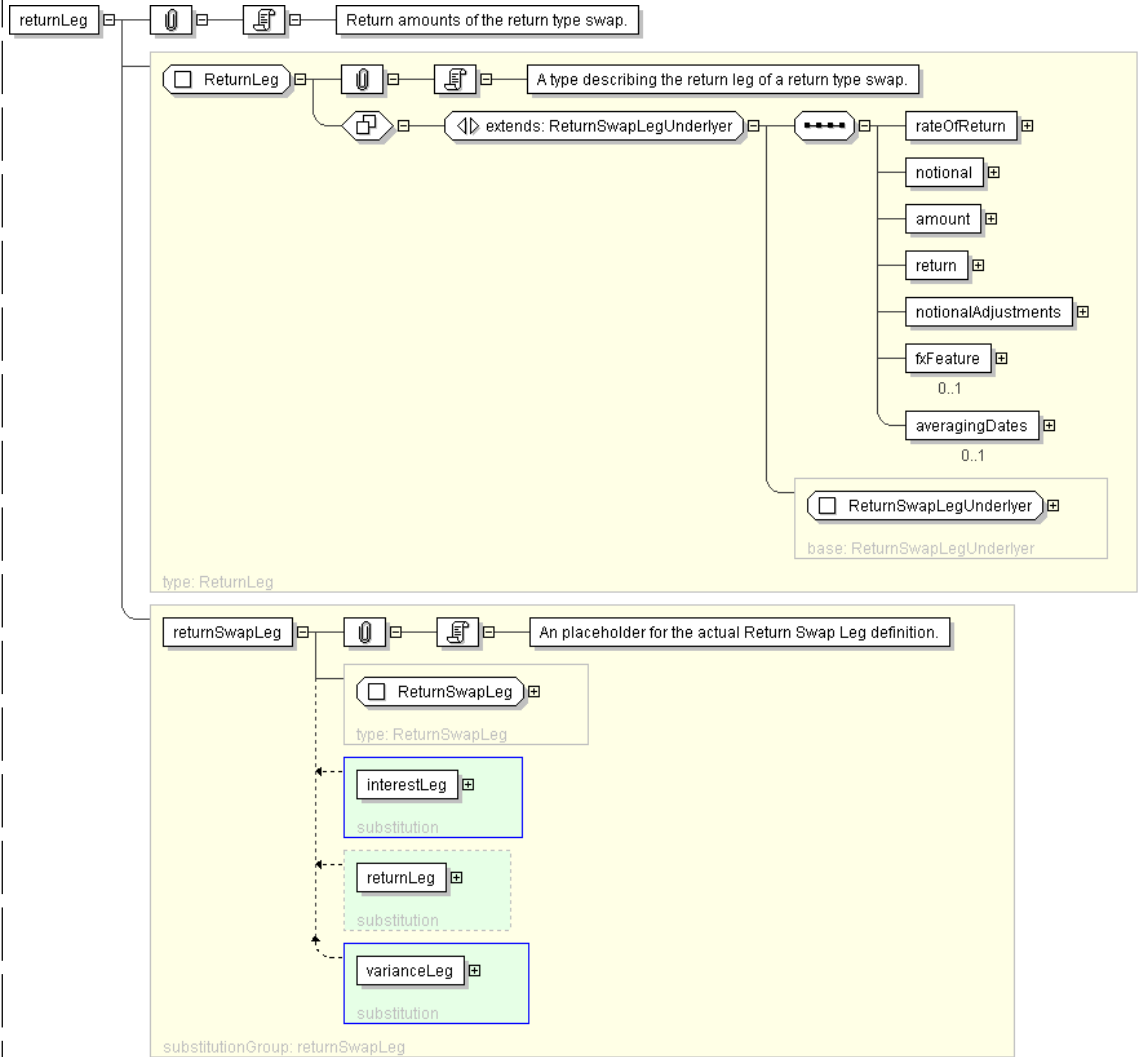
  <averagingDates> AveragingPeriod </averagingDates> [0..1]
'Averaging Dates used in the swap.'

```



</returnLeg>

Diagram



Schema Component Representation

```
<xsd:element name="returnLeg" type="ReturnLeg" substitutionGroup="returnSwapLeg"/>
```

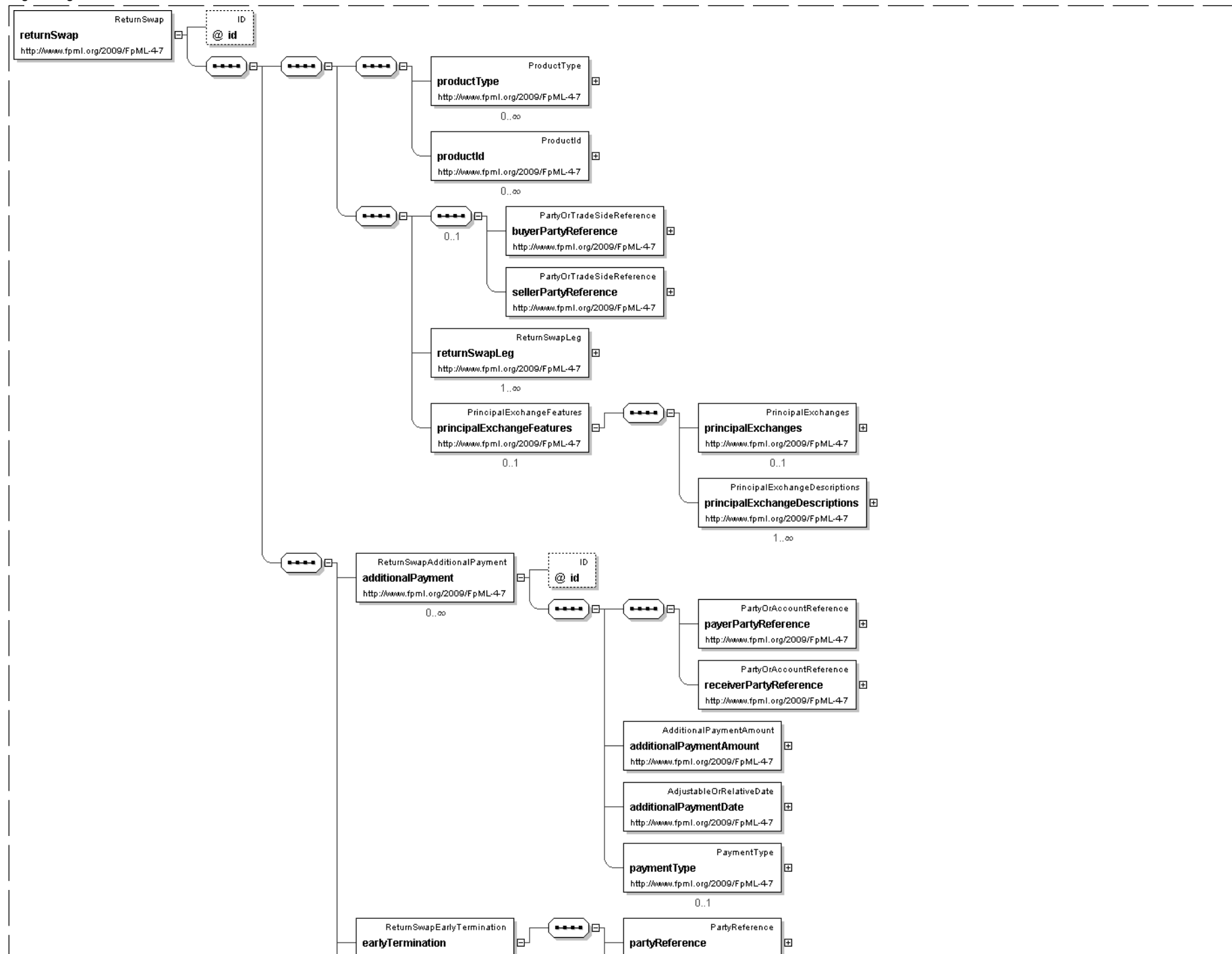
Element: **returnSwap**

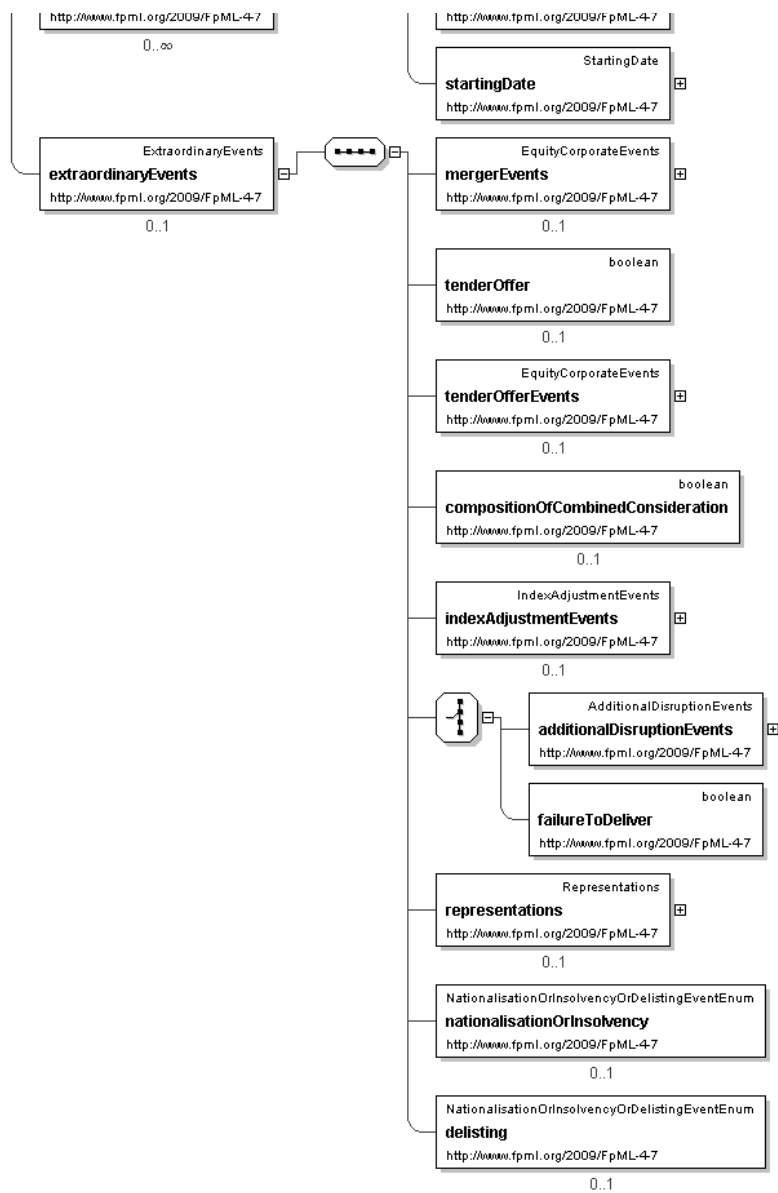
- . This element can be used wherever the following element is referenced:
  - o [product](#)

Name	returnSwap
Type	<a href="#">ReturnSwap</a>

<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	Specifies the structure of a return type swap. It can represent equity swaps, total return swaps, variance swaps.

## Logical Diagram





## XML Instance Representation

```
<returnSwap
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
```

```
<productId> ProductId </productId> [0..*]
'A product reference identifier allocated by a party. FpML does not define the domain
values associated with this element. Note that the domain values for this element are
not strictly an enumerated list.'
```

Start Group: BuyerSeller.model [0..1]

'BuyerSeller.model has been included as an optional child of ReturnSwapBase to support

the situation where an implementor wishes to indicate who has manufactured the Swap through representing them as the Seller. It may be removed in future major revisions.'

```
<buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
```

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

```
<sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
```

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

End Group: [BuyerSeller.model](#)

```
<returnSwapLeg> ... </returnSwapLeg> [1..*]
```

```
<principalExchangeFeatures> PrincipalExchangeFeatures </principalExchangeFeatures> [0..1]
```

'This is used to document a Fully Funded Return Swap.'

```
<additionalPayment> ReturnSwapAdditionalPayment </additionalPayment> [0..*]
```

'Specifies additional payment(s) between the principal parties to the trade. This component extends some of the features of the additionalPayment component developed by the FpML industry group. Appropriate discussions will determine whether it would be appropriate to extend the shared component in order to meet the further requirements of equity swaps.'

```
<earlyTermination> ReturnSwapEarlyTermination </earlyTermination> [0..*]
```

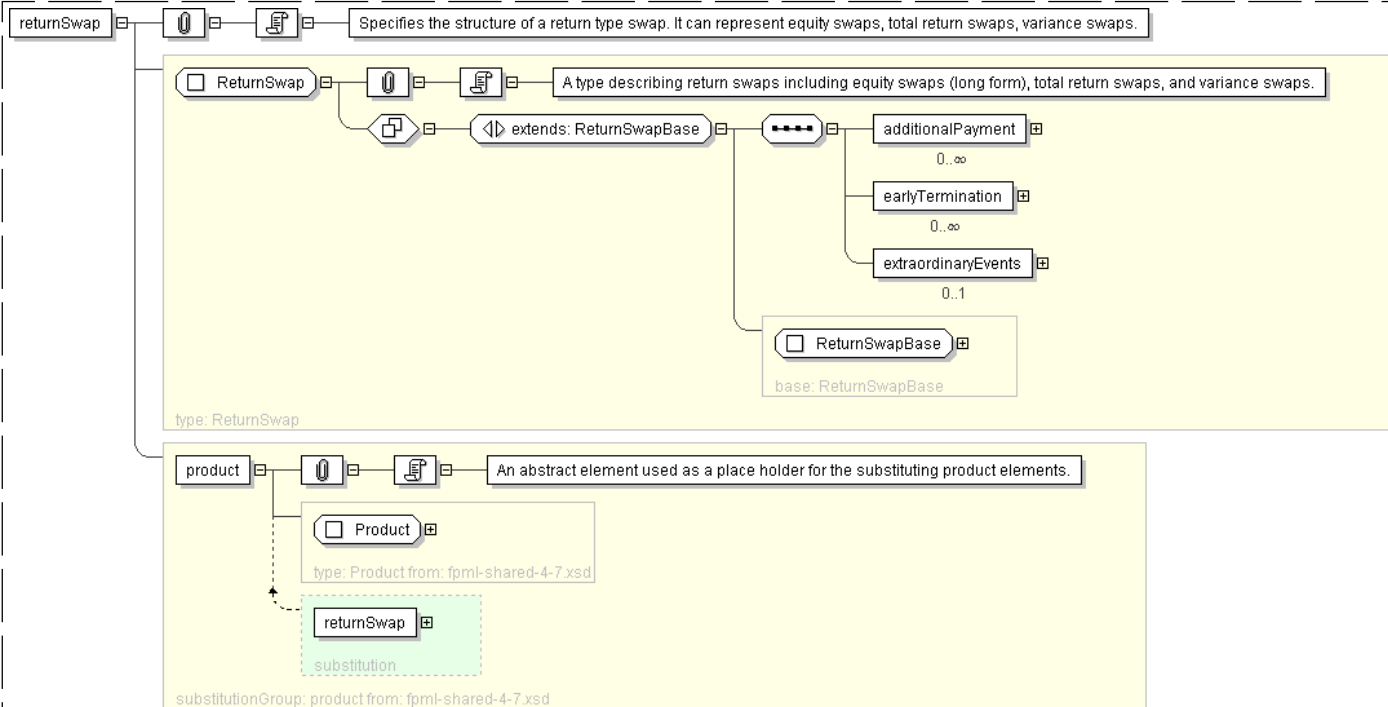
'Specifies, for one or for both the parties to the trade, the date from which it can early terminate it.'

```
<extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
```

'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'

```
</returnSwap>
```

## Diagram

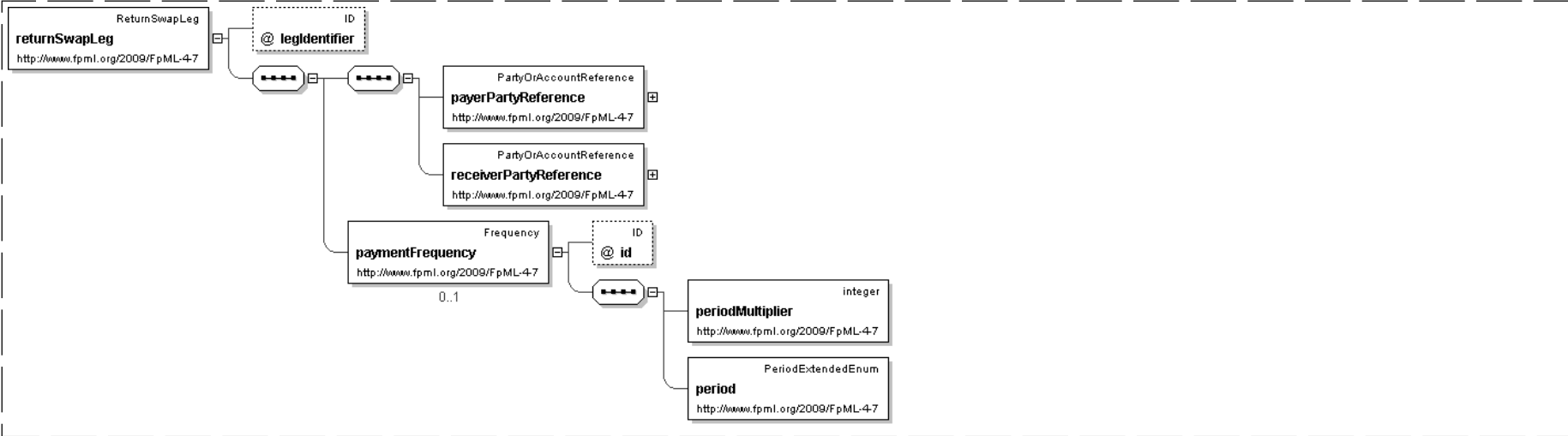


Element: returnSwapLeg

- The following elements can be used wherever this element is referenced:
  - interestLeg
  - returnLeg
  - varianceLeg

Name	returnSwapLeg
Used by (from the same schema document)	Complex Type <a href="#">ReturnSwapBase</a>
Type	<a href="#">ReturnSwapLeg</a>
Nilable	no
Abstract	yes
Documentation	An placeholder for the actual Return Swap Leg definition.

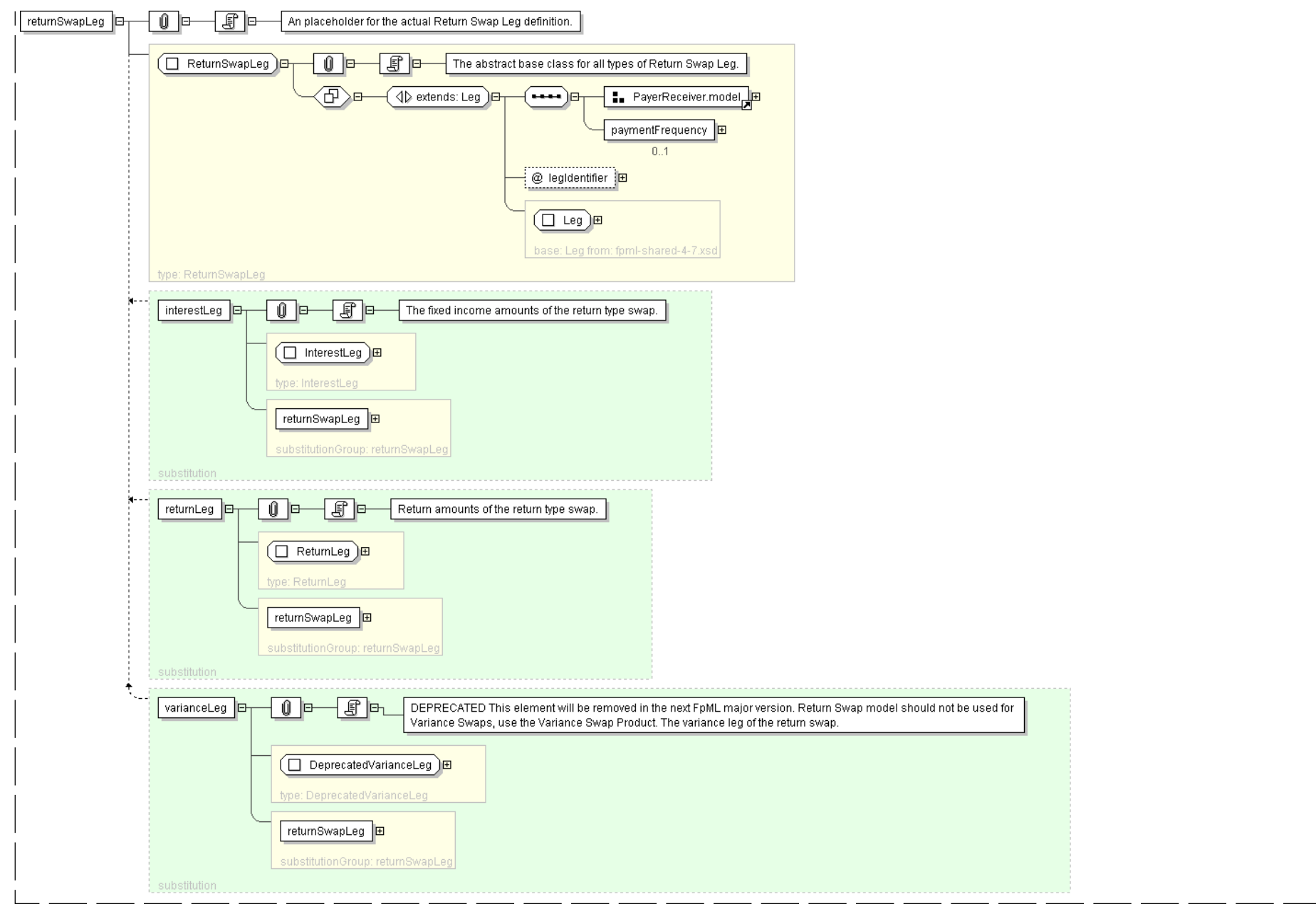
Logical Diagram



XML Instance Representation

```
<returnSwapLeg
legIdentifier=" xsd:ID [0..1]
'DEPRECATED This element will be renamed to id in the next major FpML version.'
">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'
  <paymentFrequency> Frequency </paymentFrequency> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Frequency at
  which this leg pays.'
</returnSwapLeg>
```

Diagram



Schema Component Representation

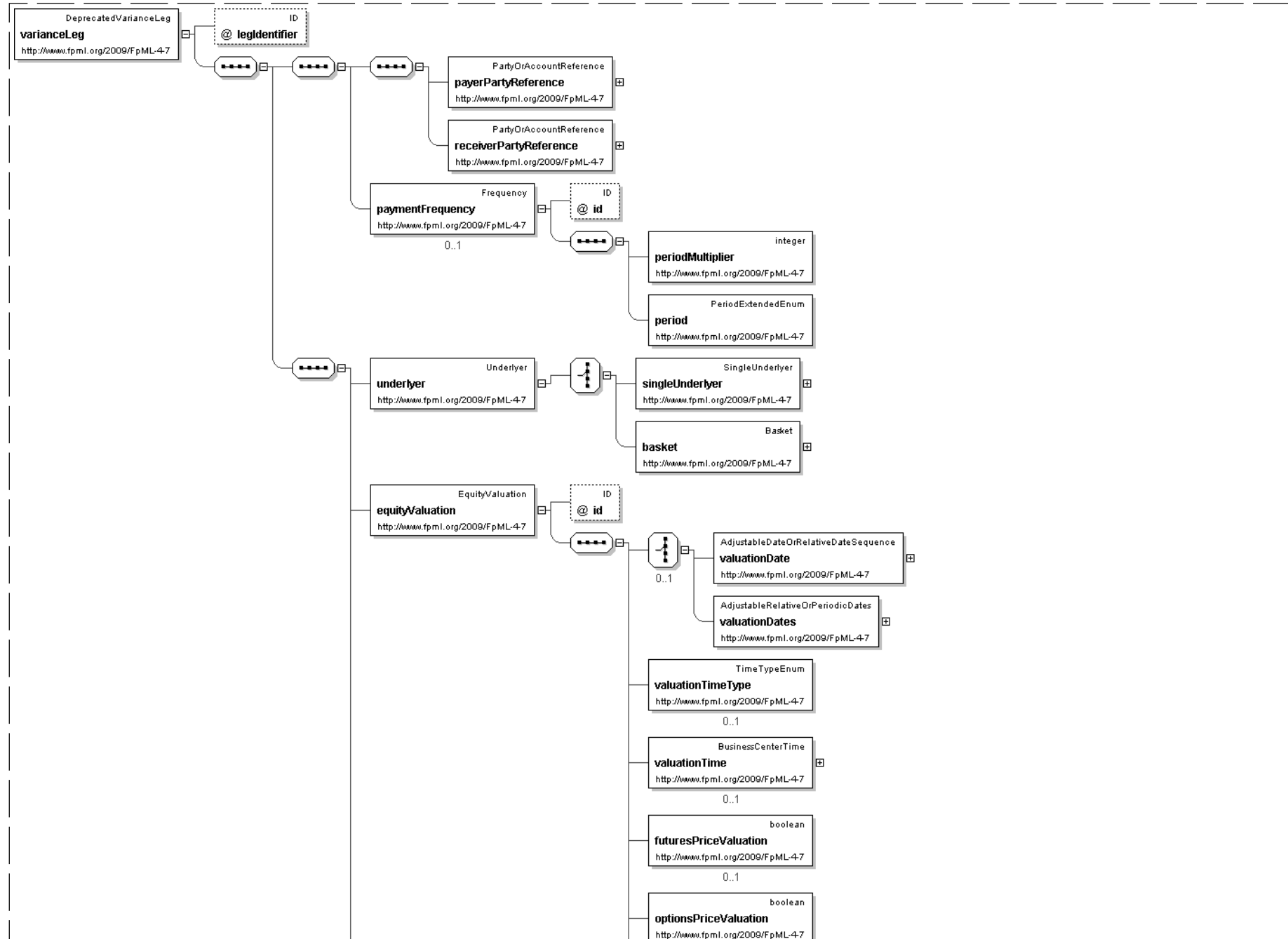
```
<xsd:element name="returnSwapLeg" type="ReturnSwapLeg" abstract="true"/>
```

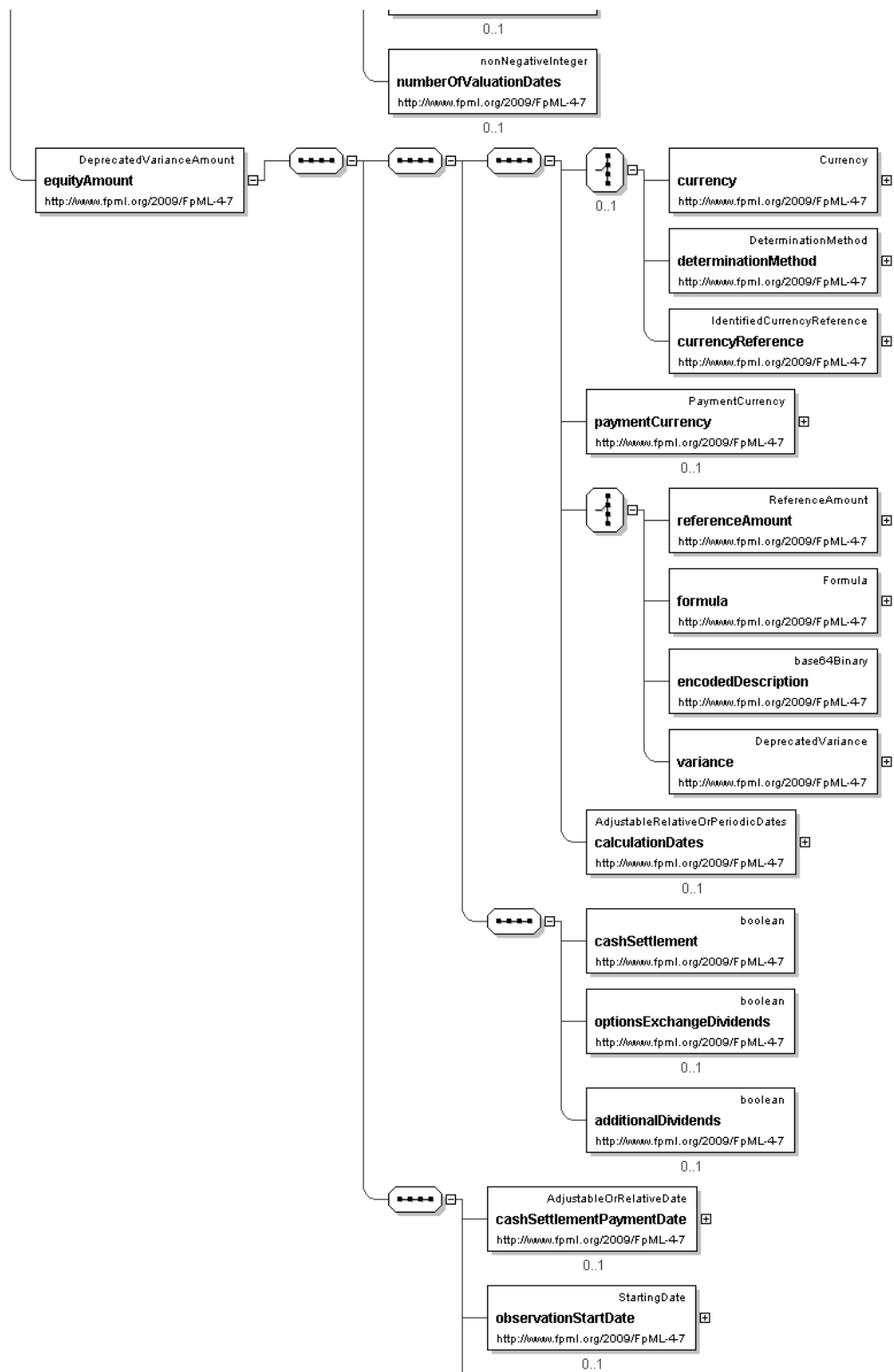
Element: **varianceLeg**

- This element can be used wherever the following element is referenced:
  - [returnSwapLeg](#)

<b>Name</b>	varianceLeg
<b>Type</b>	<a href="#">DeprecatedVarianceLeg</a>
<b>Nullable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	DEPRECATED This element will be removed in the next FpML major version. Return Swap model should not be used for Variance Swaps, use the Variance Swap Product. The variance leg of the return swap.

## Logical Diagram

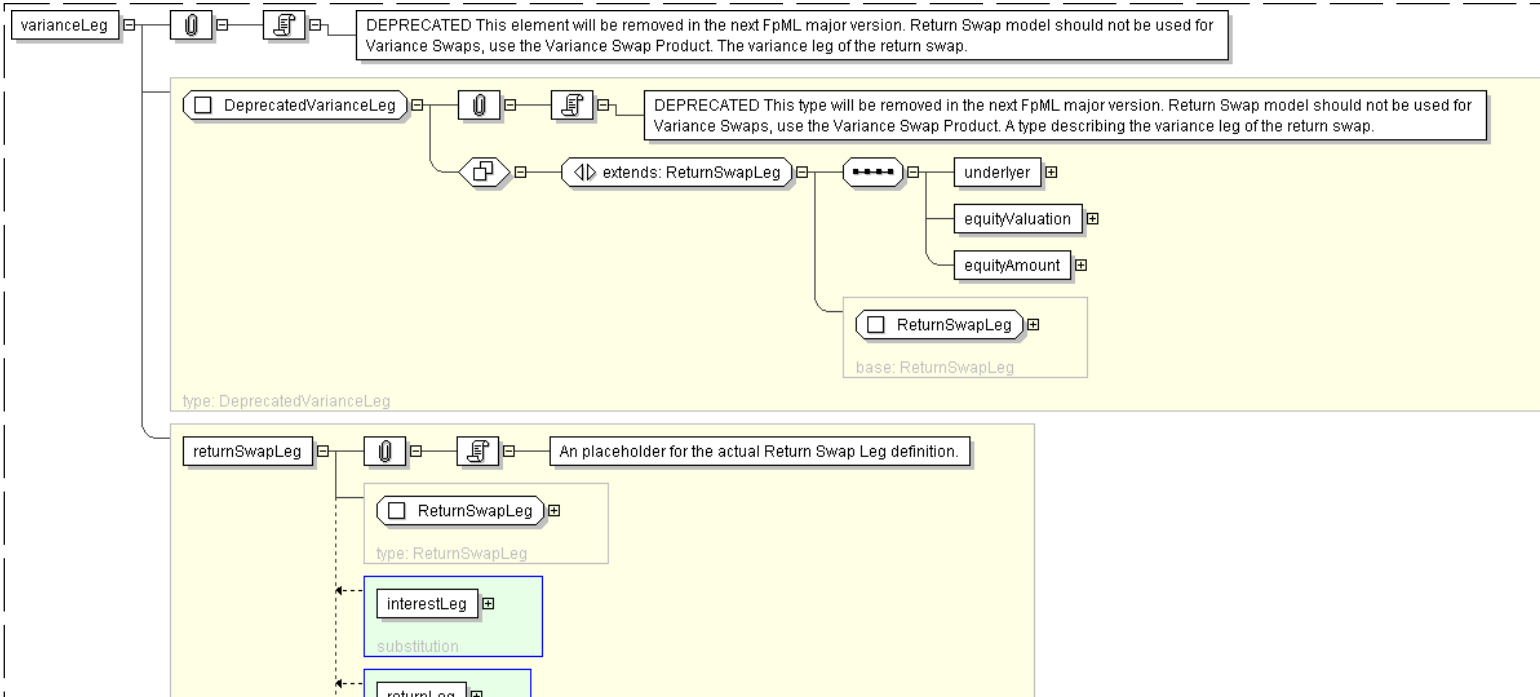


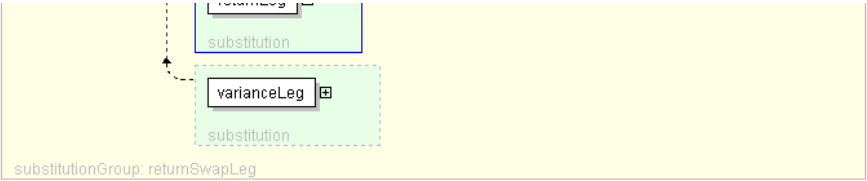




### XML Instance Representation

### Diagram





Schema Component Representation

```
<xsd:element name="varianceLeg" type="DeprecatedVarianceLeg"
  * substitutionGroup="returnSwapLeg" deprecated="true" deprecatedReason="Return Swap
model should not be used for Variance Swaps, use the Variance Swap Product"/>
```

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Global Definitions

Complex Type: AdditionalDisruptionEvents

Super-types:	None
Sub-types:	None
Name	AdditionalDisruptionEvents
Used by (from the same schema document)	Complex Type <a href="#">ExtraordinaryEvents</a>
Abstract	no
Documentation	A type for defining ISDA 2002 Equity Derivative Additional Disruption Events.

XML Instance Representation

```
<...>
  <changeInLaw> xsd:boolean </changeInLaw> [0..1]
  'If true, then change in law is applicable.'

  <failureToDeliver> xsd:boolean </failureToDeliver> [0..1]
  'Where the underlying is shares and the transaction is physically settled, then, if true,
  a failure to deliver the shares on the settlement date will not be an event of default for
  the purposes of the master agreement.'

  <insolvencyFiling> xsd:boolean </insolvencyFiling> [0..1]
  'If true, then insolvency filing is applicable.'

  <hedgingDisruption> xsd:boolean </hedgingDisruption> [0..1]
  'If true, then hedging disruption is applicable.'

  <lossOfStockBorrow> xsd:boolean </lossOfStockBorrow> [0..1]
  'If true, then loss of stock borrow is applicable.'

  <maximumStockLoanRate> RestrictedPercentage </maximumStockLoanRate> [0..1]
  'Specifies the maximum stock loan rate for Loss of Stock Borrow.'

  <increasedCostOfStockBorrow> xsd:boolean </increasedCostOfStockBorrow> [0..1]
  'If true, then increased cost of stock borrow is applicable.'

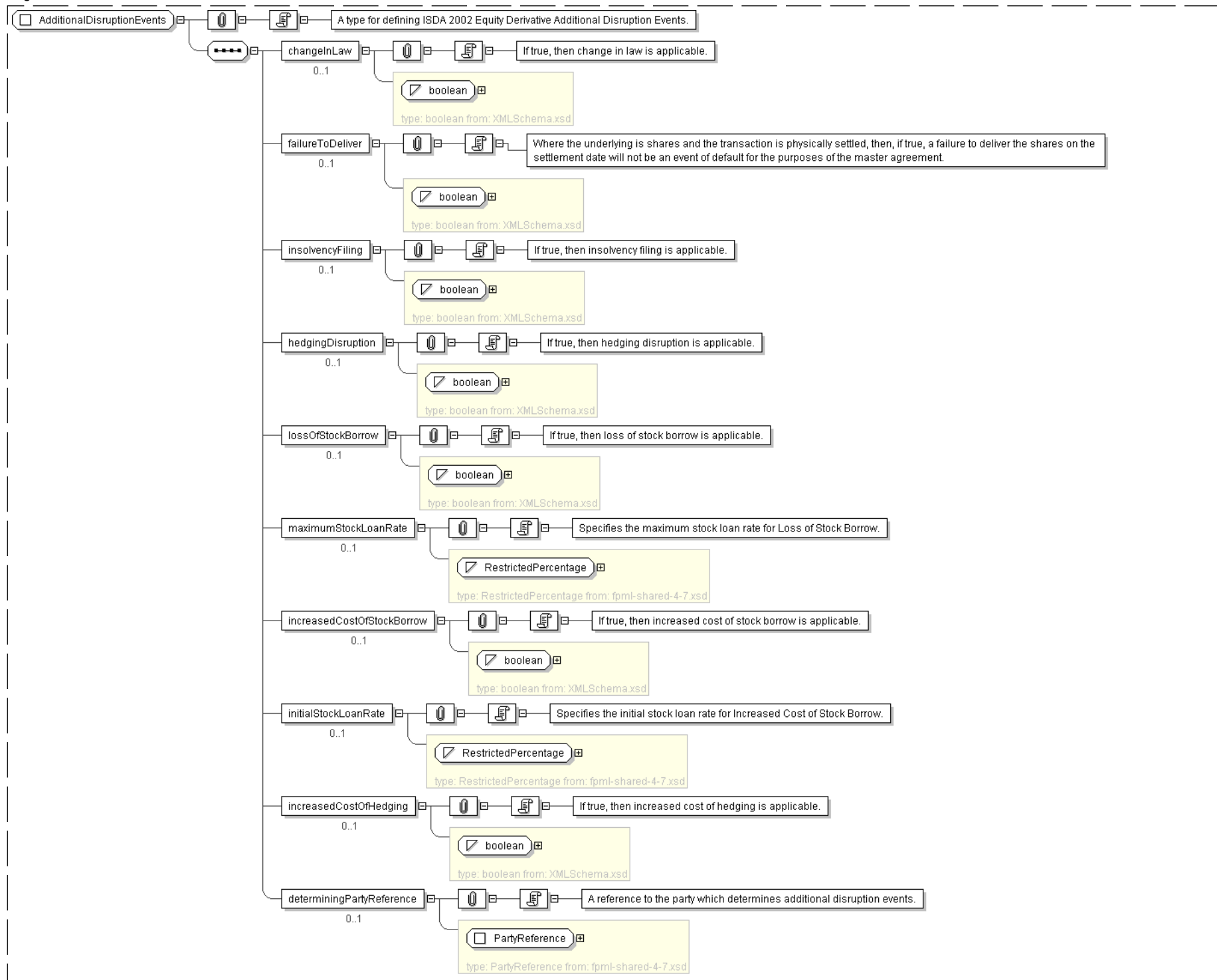
  <initialStockLoanRate> RestrictedPercentage </initialStockLoanRate> [0..1]
  'Specifies the initial stock loan rate for Increased Cost of Stock Borrow.'

  <increasedCostOfHedging> xsd:boolean </increasedCostOfHedging> [0..1]
  'If true, then increased cost of hedging is applicable.'

  <determiningPartyReference> PartyReference </determiningPartyReference> [0..1]
  'A reference to the party which determines additional disruption events.'

</...>
```

## Diagram



Complex Type: **AdditionalPaymentAmount**

Super-types:	None
Sub-types:	None
Name	AdditionalPaymentAmount
Used by (from the same schema document)	Complex Type <a href="#">ReturnSwapAdditionalPayment</a>
Abstract	no
Documentation	Specifies the amount of the fee along with, when applicable, the formula that supports its determination.

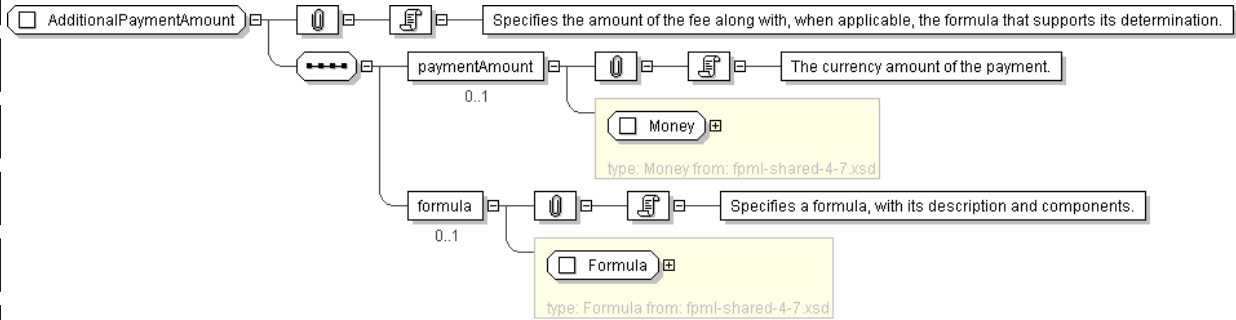
XML Instance Representation

```
<...>
  <paymentAmount> Money </paymentAmount> [0..1]
  'The currency amount of the payment.'

  <formula> Formula </formula> [0..1]
  'Specifies a formula, with its description and components.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdditionalPaymentAmount">
  <xsd:sequence>
    <xsd:element name="paymentAmount" type=" Money " minOccurs="0"/>
    <xsd:element name="formula" type=" Formula " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

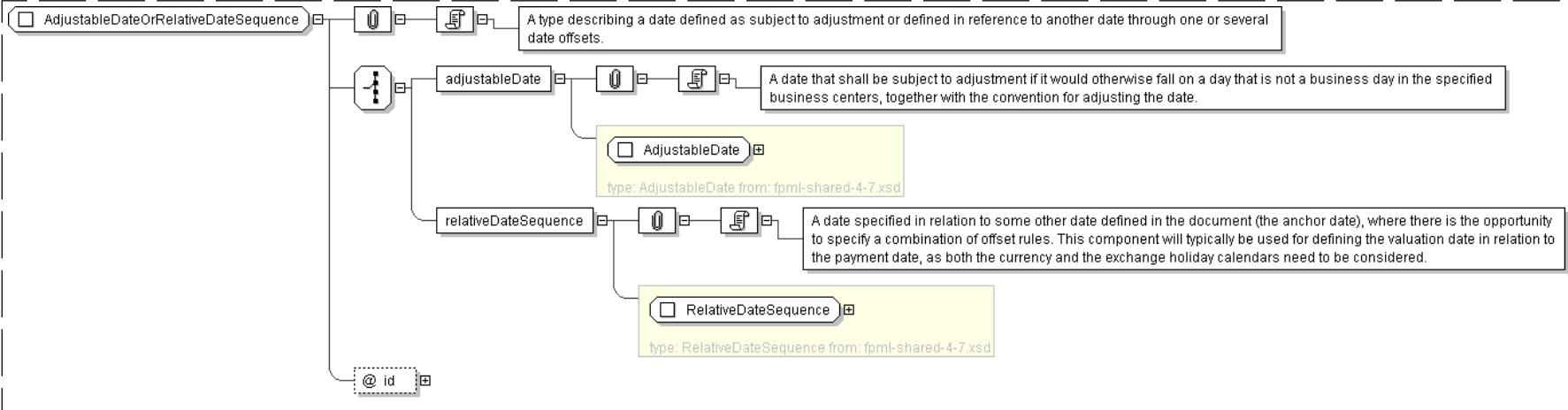
Complex Type: AdjustableDateOrRelativeDateSequence

Super-types:	None
Sub-types:	None
Name	AdjustableDateOrRelativeDateSequence
Used by (from the same schema document)	Complex Type <a href="#">EquityValuation</a>
Abstract	no
Documentation	A type describing a date defined as subject to adjustment or defined in reference to another date through one or several date offsets.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
Start Choice [1]  
  <adjustableDate> AdjustableDate </adjustableDate> [1]  
  'A date that shall be subject to adjustment if it would otherwise fall on a day that is not  
  a business day in the specified business centers, together with the convention for  
  adjusting the date.'  
  
  <relativeDateSequence> RelativeDateSequence </relativeDateSequence> [1]  
  'A date specified in relation to some other date defined in the document (the anchor  
  date), where there is the opportunity to specify a combination of offset rules. This  
  component will typically be used for defining the valuation date in relation to the  
  payment date, as both the currency and the exchange holiday calendars need to be considered.'  
  
End Choice  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableDateOrRelativeDateSequence">  
  <xsd:choice>  
    <xsd:element name="adjustableDate" type=" AdjustableDate " />  
    <xsd:element name="relativeDateSequence" type=" RelativeDateSequence " />  
  </xsd:choice>  
  <xsd:attribute name="id" type=" xsd:ID " />  
</xsd:complexType>
```

Complex Type: BoundedCorrelation

Super-types:	None
Sub-types:	None

Name	BoundedCorrelation
Used by (from the same schema document)	Complex Type <a href="#">Correlation</a>
Abstract	no
Documentation	A type describing correlation bounds, which form a cap and a floor on the realized correlation.

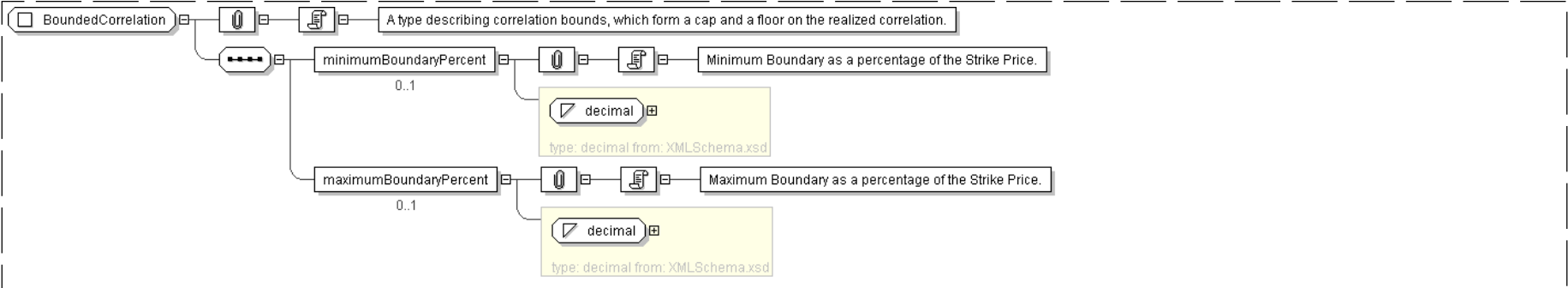
XML Instance Representation

```
<...>
  <minimumBoundaryPercent> xsd:decimal </minimumBoundaryPercent> [0..1]
  'Minimum Boundary as a percentage of the Strike Price.'

  <maximumBoundaryPercent> xsd:decimal </maximumBoundaryPercent> [0..1]
  'Maximum Boundary as a percentage of the Strike Price.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BoundedCorrelation">
  <xsd:sequence>
    <xsd:element name="minimumBoundaryPercent" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="maximumBoundaryPercent" type=" xsd:decimal " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **BoundedVariance**

Super-types:	None
Sub-types:	None

Name	BoundedVariance
Used by (from the same schema document)	Complex Type <a href="#">Variance</a>
Abstract	no
Documentation	A type describing variance bounds, which are used to exclude money price values outside of the specified range In a Up Conditional Swap Underlyer price must be equal to or higher than Lower Barrier In a Down Conditional Swap Underlyer price must be equal to or lower than Upper Barrier In a Corridor Conditional Swap Underlyer price must be equal to or higher than Lower Barrier and must be equal to or lower than Upper Barrier.

XML Instance Representation

```
<...>
  <realisedVarianceMethod> RealisedVarianceMethodEnum </realisedVarianceMethod> [1]
  'The contract specifies whether which price must satisfy the boundary condition.'

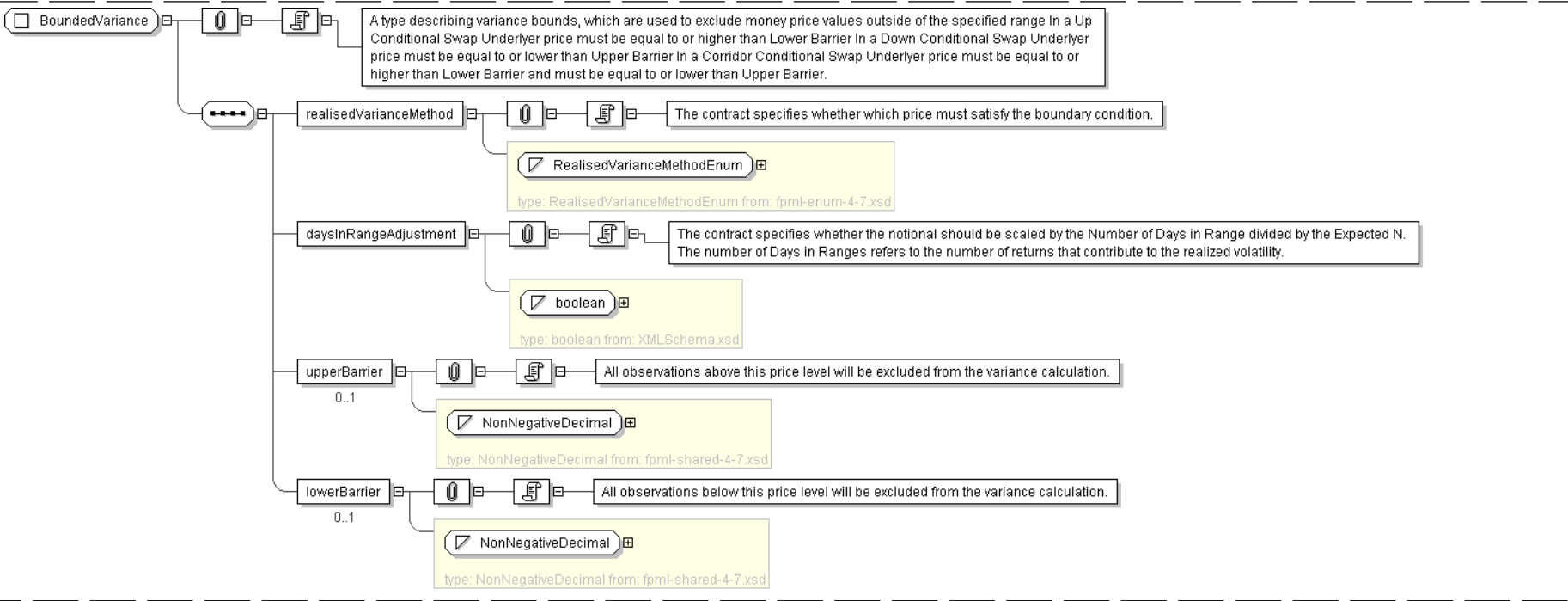
  <daysInRangeAdjustment> xsd:boolean </daysInRangeAdjustment> [1]
  'The contract specifies whether the notional should be scaled by the Number of Days in Range divided by the Expected N. The number of Days in Ranges refers to the number of returns that contribute to the realized volatility.'
```

```
<upperBarrier> NonNegativeDecimal </upperBarrier> [0..1]
'All observations above this price level will be excluded from the variance calculation.'

<lowerBarrier> NonNegativeDecimal </lowerBarrier> [0..1]
'All observations below this price level will be excluded from the variance calculation.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BoundedVariance">
  <xsd:sequence>
    <xsd:element name="realisedVarianceMethod" type=" RealisedVarianceMethodEnum " />
    <xsd:element name="daysInRangeAdjustment" type=" xsd:boolean " />
    <xsd:element name="upperBarrier" type=" NonNegativeDecimal " minOccurs="0"/>
    <xsd:element name="lowerBarrier" type=" NonNegativeDecimal " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: CalculatedAmount

Super-types:	None
Sub-types:	None

Name	CalculatedAmount
Abstract	yes
Documentation	An abstract base class for all calculated money amounts, which are in the currency of the cash multiplier of the calculation.

XML Instance Representation

```
<...>
<calculationDates> AdjustableRelativeOrPeriodicDates </calculationDates> [0..1]
```

'Specifies the date on which a calculation or an observation will be performed for the purpose of calculating the amount.'

<observationStartDate> AdjustableOrRelativeDate </observationStartDate> [0..1]

'The start of the period over which observations are made which are used in the calculation Used when the observation start date differs from the trade date such as for forward starting swaps.'

<optionsExchangeDividends> xsd:boolean </optionsExchangeDividends> [0..1]

'If present and true, then options exchange dividends are applicable.'

<additionalDividends> xsd:boolean </additionalDividends> [0..1]

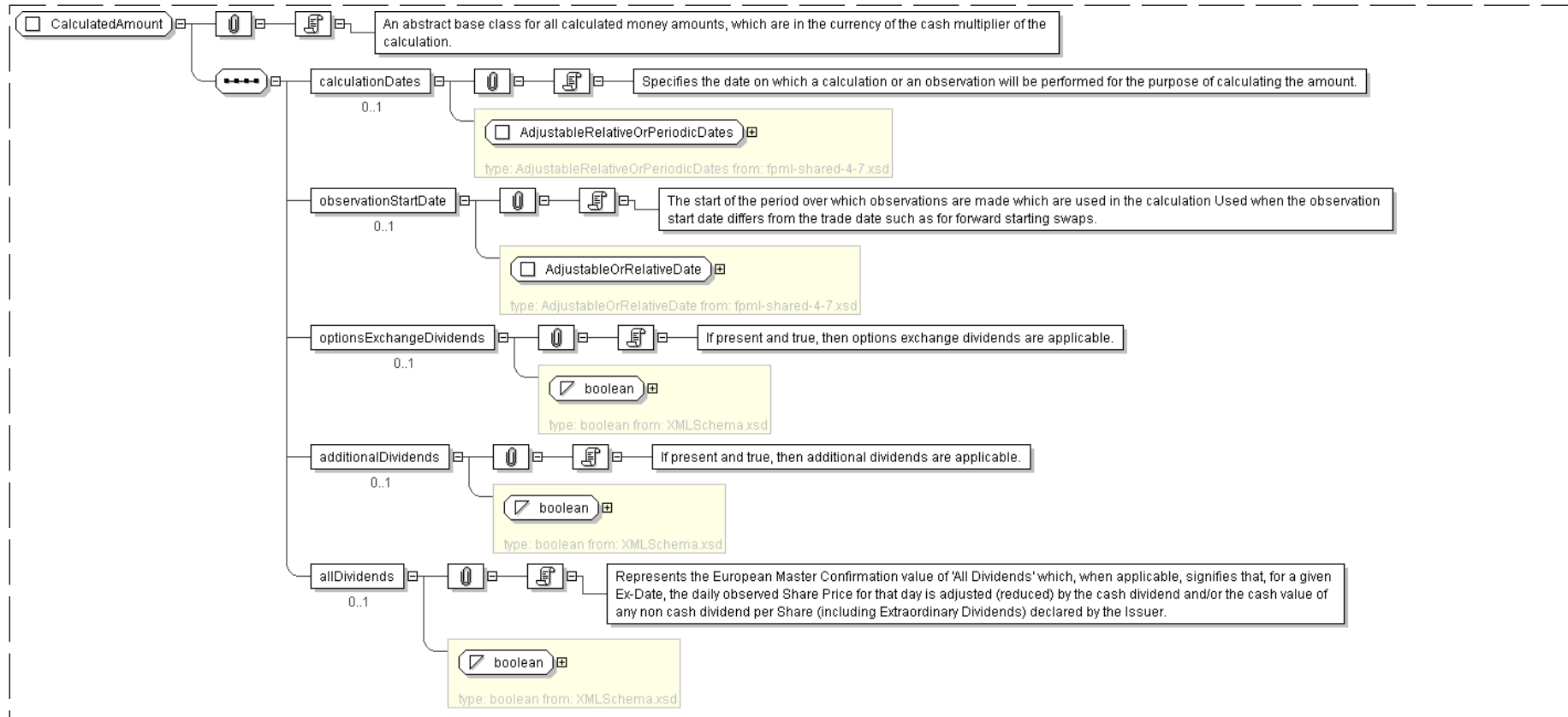
'If present and true, then additional dividends are applicable.'

<allDividends> xsd:boolean </allDividends> [0..1]

'Represents the European Master Confirmation value of \'All Dividends\' which, when applicable, signifies that, for a given Ex-Date, the daily observed Share Price for that day is adjusted (reduced) by the cash dividend and/or the cash value of any non cash dividend per Share (including Extraordinary Dividends) declared by the Issuer.'

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="CalculatedAmount" abstract="true">
  <xsd:sequence>
    <xsd:element name="calculationDates" type=" AdjustableRelativeOrPeriodicDates " minOccurs="0"/>
    <xsd:element name="observationStartDate" type=" AdjustableOrRelativeDate " minOccurs="0"/>
    <xsd:element name="optionsExchangeDividends" type=" xsd:boolean " minOccurs="0"/>
    <xsd:element name="additionalDividends" type=" xsd:boolean " minOccurs="0"/>
  
```



Complex Type: CalculationFromObservation

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>Correlation (by extension)</li><li>Variance (by extension)</li></ul>

Name	CalculationFromObservation
Abstract	yes
Documentation	Abstract base class for all calculation from observed values.

XML Instance Representation

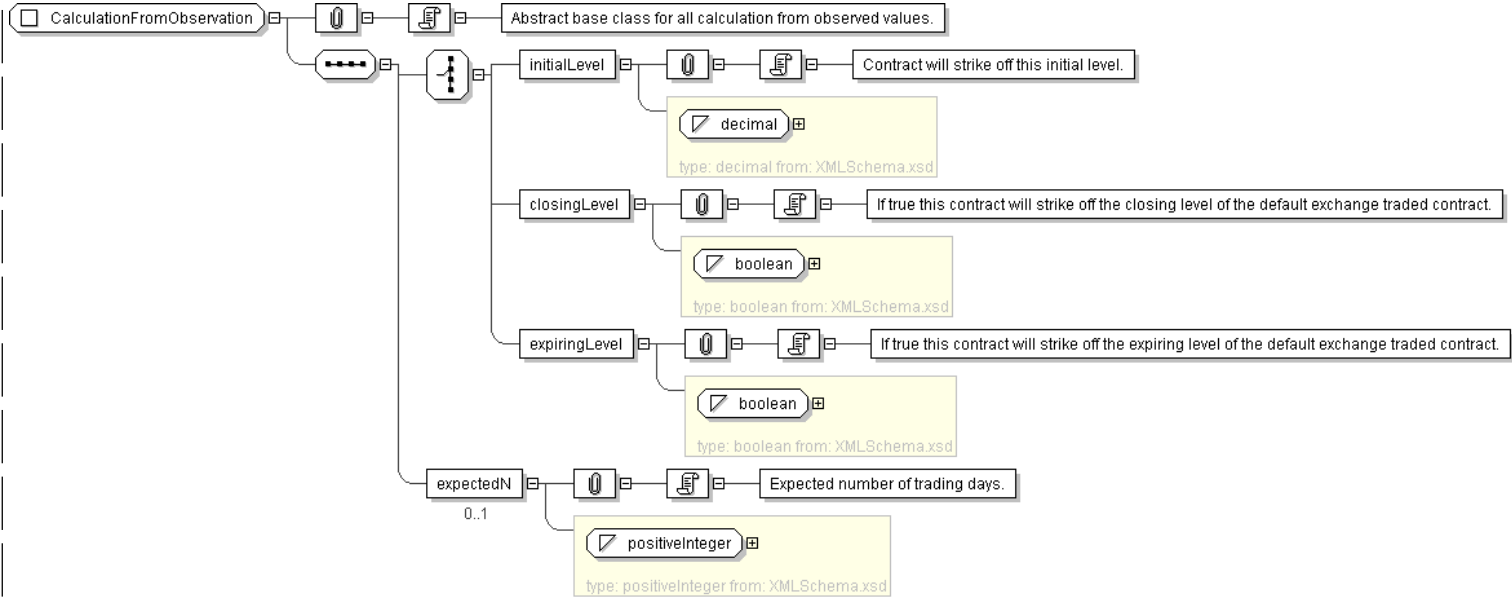
```
<...>
Start Choice [1]
  <initialLevel> xsd:decimal </initialLevel> [1]
  'Contract will strike off this initial level.'

  <closingLevel> xsd:boolean </closingLevel> [1]
  'If true this contract will strike off the closing level of the default exchange
  traded contract.'

  <expiringLevel> xsd:boolean </expiringLevel> [1]
  'If true this contract will strike off the expiring level of the default exchange
  traded contract.'

End Choice
<expectedN> xsd:positiveInteger </expectedN> [0..1]
'Expected number of trading days.'
</...>
```

Diagram



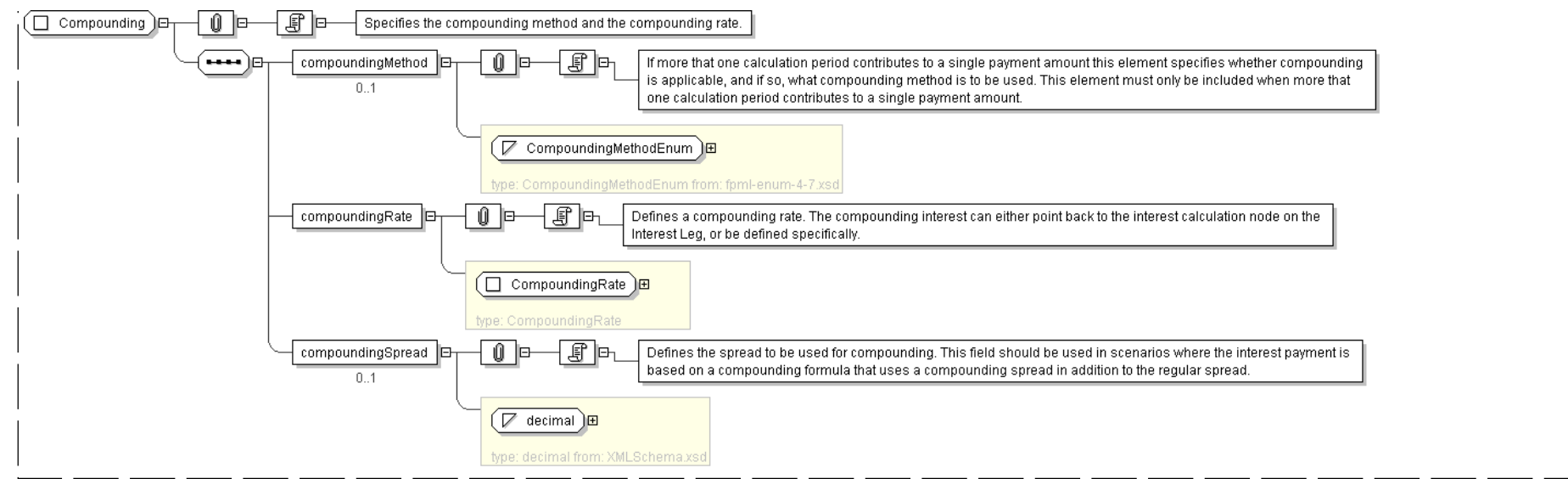
Complex Type: **Compounding**

Super-types:	None
Sub-types:	None
Name	Compounding
Used by (from the same schema document)	Complex Type <a href="#">InterestCalculation</a>
Abstract	no
Documentation	Specifies the compounding method and the compounding rate.

XML Instance Representation

```
<...>  
  <compoundingMethod> CompoundingMethodEnum </compoundingMethod> [0..1]  
  'If more that one calculation period contributes to a single payment amount this  
  element specifies whether compounding is applicable, and if so, what compounding method is  
  to be used. This element must only be included when more that one calculation  
  period contributes to a single payment amount.'  
  
  <compoundingRate> CompoundingRate </compoundingRate> [1]  
  'Defines a compounding rate. The compounding interest can either point back to the  
  interest calculation node on the Interest Leg, or be defined specifically.'  
  
  <compoundingSpread> xsd:decimal </compoundingSpread> [0..1]  
  'Defines the spread to be used for compounding. This field should be used in scenarios  
  where the interest payment is based on a compounding formula that uses a compounding spread  
  in addition to the regular spread.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Compounding">
  <xsd:sequence>
    <xsd:element name="compoundingMethod" type="CompoundingMethodEnum" minOccurs="0"/>
    <xsd:element name="compoundingRate" type="CompoundingRate" />
    <xsd:element name="compoundingSpread" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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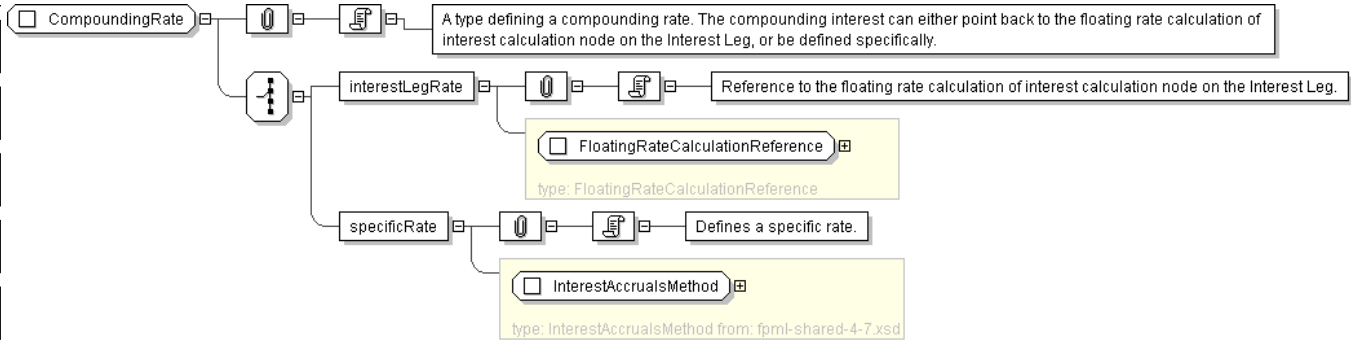
Complex Type: **CompoundingRate**

Super-types:	None
Sub-types:	None
Name	CompoundingRate
Used by (from the same schema document)	Complex Type <a href="#">Compounding</a>
Abstract	no
Documentation	A type defining a compounding rate. The compounding interest can either point back to the floating rate calculation of interest calculation node on the Interest Leg, or be defined specifically.

XML Instance Representation

```
<...>
  Start Choice [1]
    <interestLegRate> FloatingRateCalculationReference </interestLegRate> [1]
      'Reference to the floating rate calculation of interest calculation node on the Interest Leg.'
    <specificRate> InterestAccrualsMethod </specificRate> [1]
      'Defines a specific rate.'
  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CompoundingRate">
  <xsd:choice>
    <xsd:element name="interestLegRate" type=" FloatingRateCalculationReference " />
    <xsd:element name="specificRate" type=" InterestAccrualsMethod " />
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: **Correlation**

Super-types:	<a href="#">CalculationFromObservation</a> < <b>Correlation</b> (by extension)
Sub-types:	None
Name	Correlation
Abstract	no
Documentation	A type describing the correlation amount of a correlation swap.

XML Instance Representation

```
<...>
Start Choice [1]
  <initialLevel> xsd:decimal </initialLevel> [1]
  'Contract will strike off this initial level.'

  <closingLevel> xsd:boolean </closingLevel> [1]
  'If true this contract will strike off the closing level of the default exchange
  traded contract.'

  <expiringLevel> xsd:boolean </expiringLevel> [1]
  'If true this contract will strike off the expiring level of the default exchange
  traded contract.'

End Choice
<expectedN> xsd:positiveInteger </expectedN> [0..1]
'Expected number of trading days.'

<notionalAmount> Money </notionalAmount> [1]
'Notional amount, which is a cash multiplier.'

<correlationStrikePrice> CorrelationValue </correlationStrikePrice> [1]
'Correlation Strike Price.'

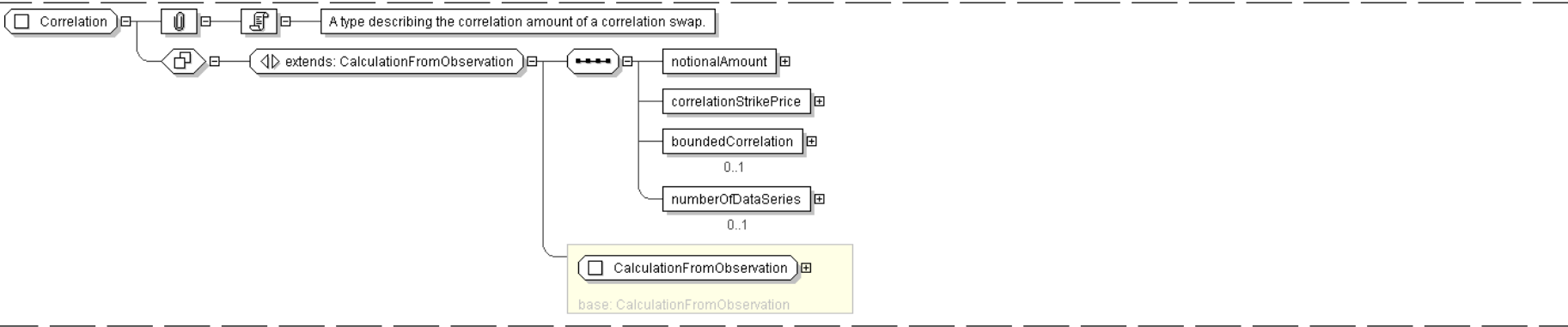
<boundedCorrelation> BoundedCorrelation </boundedCorrelation> [0..1]
'Bounded Correlation.'

<numberOfDataSeries> xsd:positiveInteger </numberOfDataSeries> [0..1]
'Number of data series, normal market practice is that correlation data sets are drawn
from geographic market areas, such as America, Europe and Asia Pacific, each of
```

*these geographic areas will have its own data series to avoid contagion.'*

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Correlation">
  <xsd:complexContent>
    <xsd:extension base="CalculationFromObservation">
      <xsd:sequence>
        <xsd:element name="notionalAmount" type="Money"/>
        <xsd:element name="correlationStrikePrice" type="CorrelationValue"/>
        <xsd:element name="boundedCorrelation" type="BoundedCorrelation" minOccurs="0"/>
        <xsd:element name="numberOfDataSeries" type="xsd:positiveInteger" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **DeprecatedVariance**

Super-types:	None
Sub-types:	None
Name	DeprecatedVariance
Used by (from the same schema document)	Complex Type <a href="#">LegAmount</a>
Abstract	no
Documentation	DEPRECATED This type will be removed in the next FpML major version. A type describing the variance amount of a variance swap.

XML Instance Representation

```
<...>
Start Choice [1]
  <initialLevel> xsd:decimal </initialLevel> [1]
  <closingLevel> xsd:boolean </closingLevel> [1]
  <expiringLevel> xsd:boolean </expiringLevel> [1]

  'If present and true this contract will strike off the default exchange traded contract'

End Choice
<varianceAmount> Money </varianceAmount> [1]
Start Choice [1]
  <volatilityStrikePrice> xsd:decimal </volatilityStrikePrice> [1]
  <varianceStrikePrice> xsd:decimal </varianceStrikePrice> [1]
End Choice
<expectedN> xsd:integer </expectedN> [0..1]
<varianceCap> xsd:boolean </varianceCap> [0..1]
<unadjustedVarianceCap> xsd:decimal </unadjustedVarianceCap> [0..1]

'For use when varianceCap is applicable. Contains the scaling factor of the Variance Cap'
```

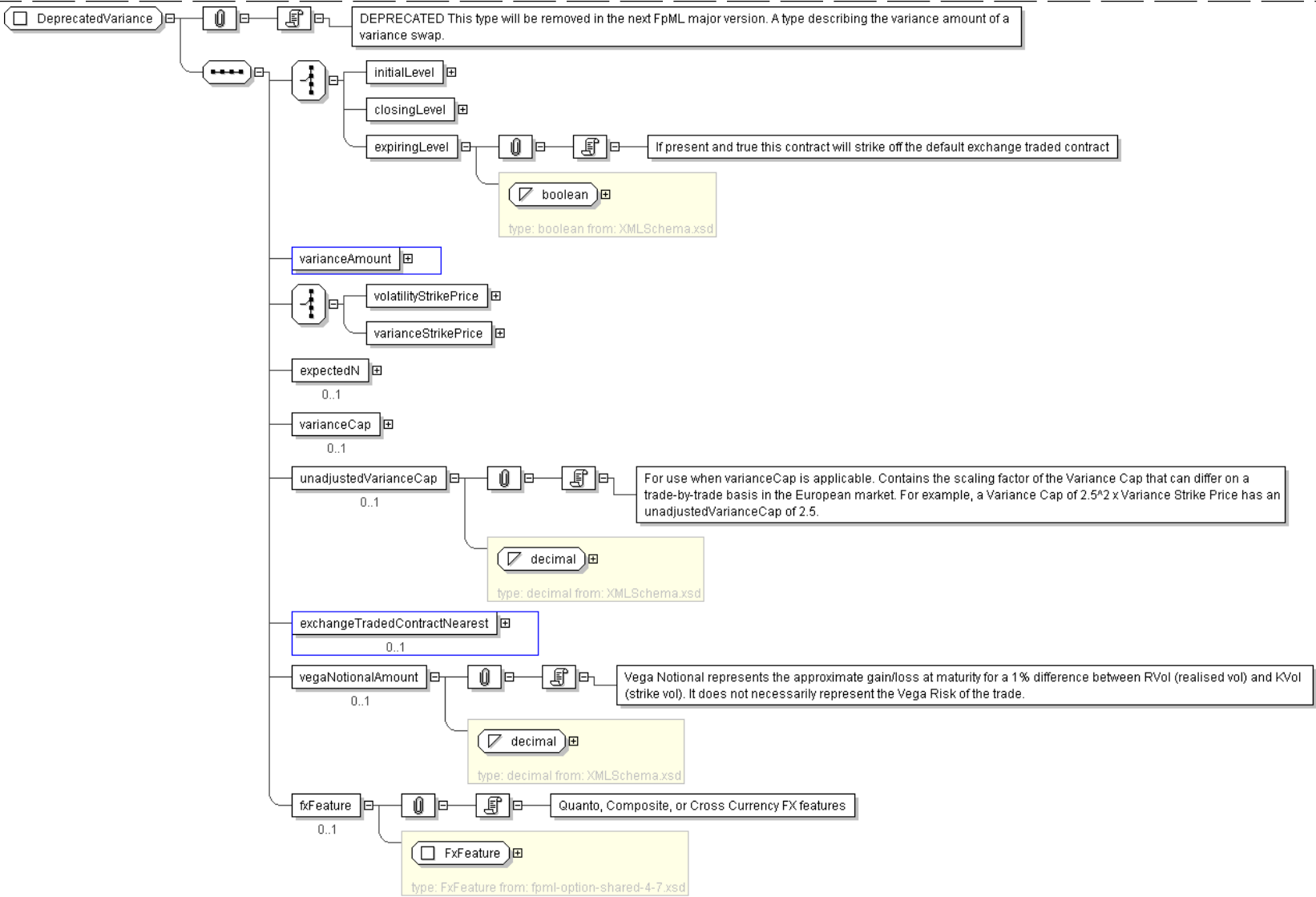
```
that can differ on a trade-by-trade basis in the European market. For example, a Variance
Cap of 2.5^2 x Variance Strike Price has an unadjustedVarianceCap of 2.5.'
```

```
<exchangeTradedContractNearest> ExchangeTradedContract </exchangeTradedContractNearest> [0..1]
<vegaNotionalAmount> xsd:decimal </vegaNotionalAmount> [0..1]
'Vega Notional represents the approximate gain/loss at maturity for a 1% difference
between RVol (realised vol) and KVol (strike vol). It does not necessarily represent the
Vega Risk of the trade.'
```

```
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features'
```

```
</...>
```

Diagram



Complex Type: **DeprecatedVarianceAmount**

Super-types:	<a href="#">LegAmount</a> < <a href="#">ReturnSwapAmount</a> (by extension) < <b>DeprecatedVarianceAmount</b> (by extension)
Sub-types:	None
Name	DeprecatedVarianceAmount
Used by (from the same schema document)	Complex Type <a href="#">DeprecatedVarianceLeg</a>
Abstract	no
Documentation	DEPRECATED This type will be removed in the next FpML major version. Return Swap model should not be used for Variance Swaps, use the Variance Swap Product. Specifies, in relation to each Equity Payment Date, the amount to which the Equity Payment Date relates for Variance Swaps. Unless otherwise specified, this term has the meaning defined in the ISDA 2002 Equity Derivatives Definitions.

XML Instance Representation

<...> Start Group: <a href="#">CurrencyAndDeterminationMethod.model</a> [0..1] Start <a href="#">Choice</a> [1] <currency> <a href="#">Currency</a> </currency> [1] <i>'The currency in which an amount is denominated.'</i> <determinationMethod> <a href="#">DeterminationMethod</a> </determinationMethod> [1] <i>'Specifies the method according to which an amount or a date is determined.'</i> <currencyReference> <a href="#">IdentifiedCurrencyReference</a> </currencyReference> [1] <i>'Reference to a currency defined elsewhere in the document'</i> End Choice End Group: <a href="#">CurrencyAndDeterminationMethod.model</a> <paymentCurrency> <a href="#">PaymentCurrency</a> </paymentCurrency> [0..1] <i>'DEPRECATED. Currency in which the payment relating to the leg amount (equity amount or interest amount) or the dividend will be denominated.'</i> Start <a href="#">Choice</a> [1] <referenceAmount> <a href="#">ReferenceAmount</a> </referenceAmount> [1] <i>'Specifies the reference Amount when this term either corresponds to the standard ISDA Definition (either the 2002 Equity Definition for the Equity Amount, or the 2000 Definition for the Interest Amount), or points to a term defined elsewhere in the swap document.'</i> <formula> <a href="#">Formula</a> </formula> [1] <i>'Specifies a formula, with its description and components.'</i> <encodedDescription> <a href="#">xsd:base64Binary</a> </encodedDescription> [1] 
---

'Description of the leg amount when represented through an encoded image.'

<variance> [DeprecatedVariance](#) </variance> [1]

'DEPRECATED This element will be removed in the next FpML major version. Return Swap model should not be used for Variance Swaps, use the Variance Swap Product. Specifies Variance for Variance Leg.'

End Choice

<calculationDates> [AdjustableRelativeOrPeriodicDates](#) </calculationDates> [0..1]

'Specifies the date on which a calculation or an observation will be performed for the purpose of defining the Equity Amount, and in accordance to the definition terms of this latter.'

<cashSettlement> [xsd:boolean](#) </cashSettlement> [1]

'If true, then cash settlement is applicable.'

<optionsExchangeDividends> [xsd:boolean](#) </optionsExchangeDividends> [0..1]

'If present and true, then options exchange dividends are applicable.'

<additionalDividends> [xsd:boolean](#) </additionalDividends> [0..1]

'If present and true, then additional dividends are applicable.'

<cashSettlementPaymentDate> [AdjustableOrRelativeDate](#) </cashSettlementPaymentDate> [0..1]

'Typically specified as a number of days following the valuation date, such as one settlement cycle following the valuation date. Number of days can vary in the European market.'

<observationStartDate> [StartingDate](#) </observationStartDate> [0..1]

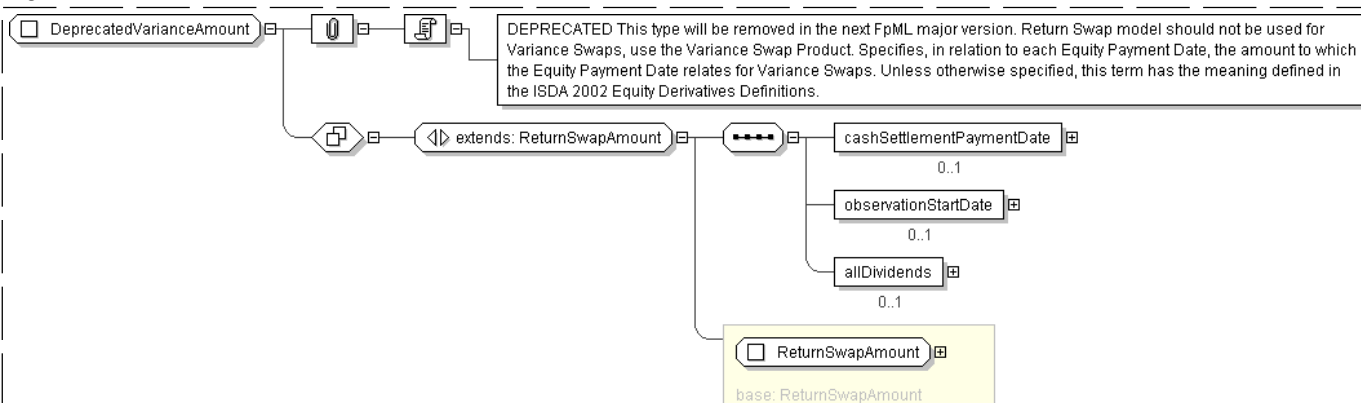
'The start of the period over which observations are made to determine the variance. Used when the date differs from the trade date such as for forward starting variance swaps.'

<allDividends> [xsd:boolean](#) </allDividends> [0..1]

'Represents the European Master Confirmation value of "All Dividends" which, when applicable, signifies that, for a given Ex-Date, the daily observed Share Price for that day is adjusted (reduced) by the cash dividend and/or the cash value of any non cash dividend per Share (including Extraordinary Dividends) declared by the Issuer.'

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="DeprecatedVarianceAmount" deprecated="true"
  deprecatedReason="Return Swap model should not be used for Variance Swaps, use the
  Variance Swap Product">
  <xsd:complexContent>
    <xsd:extension base="ReturnSwapAmount" >
      <xsd:sequence>
        <xsd:element name="cashSettlementPaymentDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
        <xsd:element name="observationStartDate" type="StartingDate" minOccurs="0"/>
        <xsd:element name="allDividends" type="xsd:boolean" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
  
```



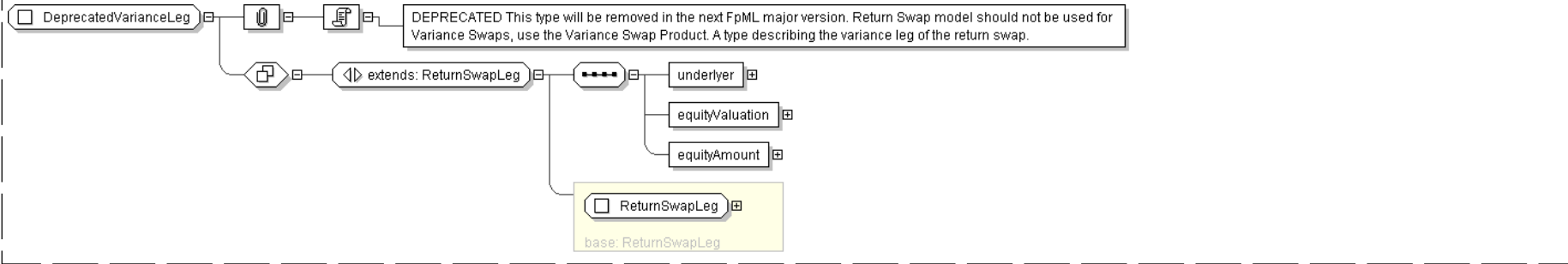
Complex Type: **DeprecatedVarianceLeg**

Super-types:	<a href="#">Leg</a> < <a href="#">ReturnSwapLeg</a> (by extension) < <b>DeprecatedVarianceLeg</b> (by extension)
Sub-types:	None
Name	DeprecatedVarianceLeg
Used by (from the same schema document)	Element <a href="#">varianceLeg</a>
Abstract	no
Documentation	DEPRECATED This type will be removed in the next FpML major version. Return Swap model should not be used for Variance Swaps, use the Variance Swap Product. A type describing the variance leg of the return swap.

XML Instance Representation

```
<...  
  legIdentifier=" xsd:ID [0..1]  
  'DEPRECATED This element will be renamed to id in the next major FpML version.'  
  
  >  
    <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
    'A reference to the party responsible for making the payments defined by this structure.'  
  
    <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
    'A reference to the party that receives the payments corresponding to this structure.'  
  
    <paymentFrequency> Frequency </paymentFrequency> [0..1]  
    'DEPRECATED This element will be removed in the next FpML major version. Frequency at  
    which this leg pays.'  
  
    <underlyer> Underlyer </underlyer> [1]  
    'Specifies the underlyer of the leg.'  
  
    <equityValuation> EquityValuation </equityValuation> [1]  
    'Valuation of the underlyer.'  
  
    <equityAmount> DeprecatedVarianceAmount </equityAmount> [1]  
    'Specifies, in relation to each Equity Payment Date, the amount to which the Equity  
    Payment Date relates. Unless otherwise specified, this term has the meaning defined in the  
    ISDA 2002 Equity Derivatives Definitions.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DeprecatedVarianceLeg" deprecated="true" deprecatedReason="Return
```

```
Swap model should not be used for Variance Swaps, use the Variance Swap Product">
  <xsd:complexContent>
    <xsd:extension base=" ReturnSwapLeg " >
      <xsd:sequence>
        <xsd:element name="underlyer" type=" Underlyer " />
        <xsd:element name="equityValuation" type=" EquityValuation " />
        <xsd:element name="equityAmount" type=" DeprecatedVarianceAmount " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **DirectionalLeg**

Super-types:	<a href="#">Leg</a> < <b>DirectionalLeg</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DirectionalLegUnderlyer</a> (by extension)<ul style="list-style-type: none"><li><a href="#">DirectionalLegUnderlyerValuation</a> (by extension)</li></ul></li></ul>

Name	DirectionalLeg
Abstract	yes
Documentation	An abstract base class for all directional leg types with effective date, termination date, where a payer makes a stream of payments of greater than zero value to a receiver.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <legIdentifier> LegIdentifier </legIdentifier> [0..*]
  'Version aware identification of this leg.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

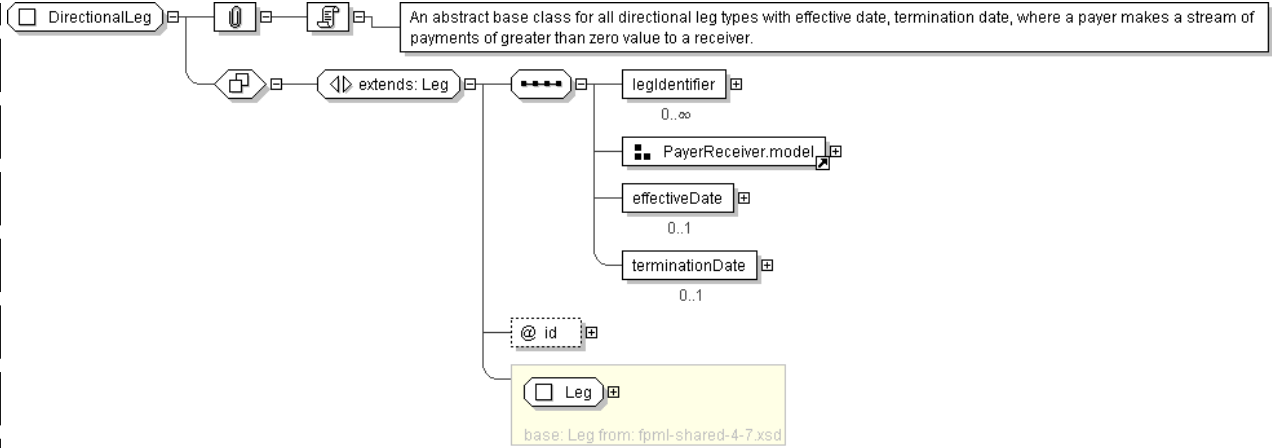
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [0..1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [0..1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DirectionalLeg" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="Leg" />
    <xsd:sequence>
      <xsd:element name="legIdentifier" type="LegIdentifier" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:group ref="PayerReceiver.model" />
      <xsd:element name="effectiveDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
      <xsd:element name="terminationDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="id" type="xsd:ID" />
  </xsd:extension>
</xsd:complexType>
```

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Complex Type: DirectionalLegUnderlyer

Super-types:	<a href="#">Leg</a> < <a href="#">DirectionalLeg</a> (by extension) < <a href="#">DirectionalLegUnderlyer</a> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DirectionalLegUnderlyerValuation</a> (by extension)</li></ul>

Name	DirectionalLegUnderlyer
Abstract	yes
Documentation	An abstract base class for all directional leg types with effective date, termination date, and underlyer where a payer makes a stream of payments of greater than zero value to a receiver.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <legIdentifier LegIdentifier /> [0..*]
  'Version aware identification of this leg.'

  <payerPartyReference PartyOrAccountReference /> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference PartyOrAccountReference /> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <effectiveDate AdjustableOrRelativeDate /> [0..1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate AdjustableOrRelativeDate /> [0..1]
```

```
'Specifies the termination date of this leg of the swap. When defined in relation to a
date specified somewhere else in the document (through the relativeDate component),
this element will typically point to the termination date of the other leg of the swap.'
```

```
<underlyer> Underlyer </underlyer> [1]
'Specifies the underlyer of the leg.'
```

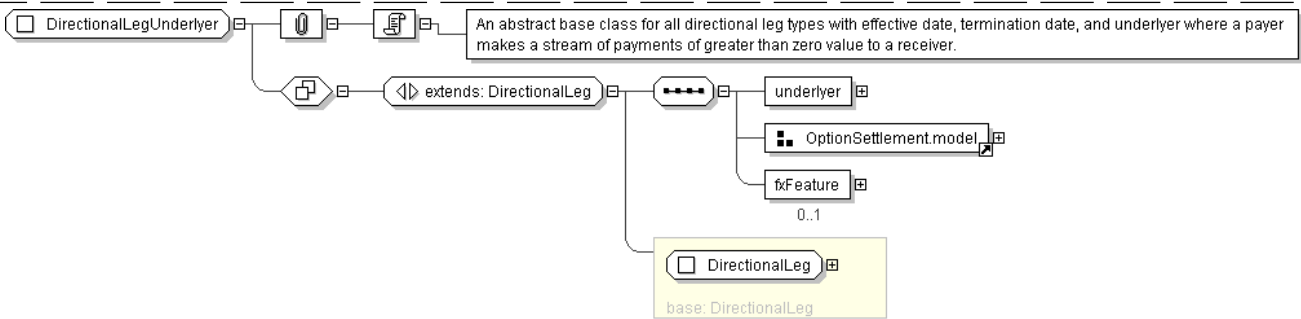
```
<settlementType> SettlementTypeEnum </settlementType> [0..1]
<settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
Start Group: SettlementAmountOrCurrency.model [0..1]
Start Choice [1]
  <settlementAmount> Money </settlementAmount> [1]
  'Settlement Amount'

  <settlementCurrency> Currency </settlementCurrency> [1]
  'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice
End Group: SettlementAmountOrCurrency.model
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DirectionalLegUnderlyer" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" DirectionalLeg ">
      <xsd:sequence>
        <xsd:element name="underlyer" type=" Underlyer " />
        <xsd:group ref=" OptionSettlement.model " />
        <xsd:element name="fxFeature" type=" FxFeature " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: DirectionalLegUnderlyerValuation

Super-types:	<a href="#">Leg</a> < <a href="#">DirectionalLeg</a> (by extension) < <a href="#">DirectionalLegUnderlyer</a> (by extension) < <b>DirectionalLegUnderlyerValuation</b> (by extension)
Sub-types:	None

Name	DirectionalLegUnderlyerValuation
Abstract	yes
Documentation	An abstract base class for all directional leg types with effective date, termination date, and underlyer, where a payer makes a stream of payments of greater than zero value to a receiver.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]*"
  <legIdentifier> LegIdentifier </legIdentifier> [0..*]
  'Version aware identification of this leg.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [0..1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [0..1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlyer of the leg.'

  <settlementType> SettlementTypeEnum </settlementType> [0..1]
  <settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
  Start Group: SettlementAmountOrCurrency.model [0..1]
  Start Choice [1]
    <settlementAmount> Money </settlementAmount> [1]
    'Settlement Amount'

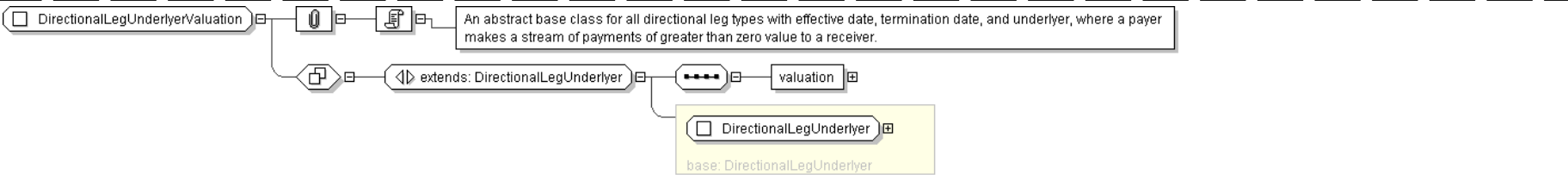
    <settlementCurrency> Currency </settlementCurrency> [1]
    'Settlement Currency for use where the Settlement Amount cannot be known in advance'

  End Choice
  End Group: SettlementAmountOrCurrency.model
  <fxFeature> FxFeature </fxFeature> [0..1]
  'Quanto, Composite, or Cross Currency FX features.'

  <valuation> EquityValuation </valuation> [1]
  'Valuation of the underlyer.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DirectionalLegUnderlyerValuation" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" DirectionalLegUnderlyer ">
      <xsd:sequence>
        <xsd:element name="valuation" type=" EquityValuation "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

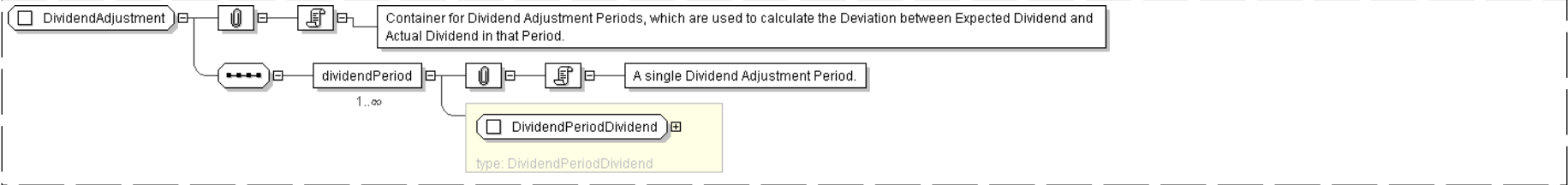
Complex Type: **DividendAdjustment**

Super-types:	None
Sub-types:	None
Name	DividendAdjustment
Used by (from the same schema document)	Complex Type <a href="#">OptionFeatures</a>
Abstract	no
Documentation	Container for Dividend Adjustment Periods, which are used to calculate the Deviation between Expected Dividend and Actual Dividend in that Period.

XML Instance Representation

```
<...>
  <dividendPeriod> DividendPeriodDividend </dividendPeriod> [1..*]
  'A single Dividend Adjustment Period.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DividendAdjustment">
  <xsd:sequence>
    <xsd:element name="dividendPeriod" type="DividendPeriodDividend" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **DividendConditions**

Super-types:	None
Sub-types:	None
Name	DividendConditions
Used by (from the same schema document)	Complex Type <a href="#">Return</a>
Abstract	no
Documentation	A type describing the conditions governing the payment of dividends to the receiver of the equity return. With the exception of the dividend payout ratio, which is defined for each of the underlying components.

XML Instance Representation

```
<...>
  <dividendReinvestment> xsd:boolean </dividendReinvestment> [0..1]
  'Boolean element that defines whether the dividend will be reinvested or not.'

  <dividendEntitlement> DividendEntitlementEnum </dividendEntitlement> [0..1]
  'Defines the date on which the receiver on the equity return is entitled to the dividend.'

  <dividendAmount> DividendAmountTypeEnum </dividendAmount> [0..1]
  <dividendPaymentDate> DividendPaymentDate </dividendPaymentDate> [0..1]
  'Specifies when the dividend will be paid to the receiver of the equity return. Has the meaning as defined in the ISDA 2002 Equity Derivatives Definitions. Is not applicable in the case of a dividend reinvestment election.'
</...>
```

```

Start Choice [1]
  <dividendPeriodEffectiveDate> DateReference </dividendPeriodEffectiveDate> [0..1]
  'Dividend period has the meaning as defined in the ISDA 2002 Equity Derivatives
  Definitions. This element specifies the date on which the dividend period will commence.'

  <dividendPeriodEndDate> DateReference </dividendPeriodEndDate> [0..1]
  'Dividend period has the meaning as defined in the ISDA 2002 Equity Derivatives
  Definitions. This element specifies the date on which the dividend period will end. It
  includes a boolean attribute for defining whether this end date is included or excluded
  from the dividend period.'

  <dividendPeriod> DividendPeriodEnum </dividendPeriod> [1]
  'Defines the First Period or the Second Period, as defined in the 2002 ISDA Equity
  Derivatives Definitions.'

End Choice
  <extraOrdinaryDividends> PartyReference </extraOrdinaryDividends> [0..1]
  'Reference to the party which determines if dividends are extraordinary in relation to
  normal levels.'

  <excessDividendAmount> DividendAmountTypeEnum </excessDividendAmount> [0..1]
  'Determination of Gross Cash Dividend per Share.'

Start Group: CurrencyAndDeterminationMethod.model [0..1]
Start Choice [1]
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

  <determinationMethod> DeterminationMethod </determinationMethod> [1]
  'Specifies the method according to which an amount or a date is determined.'

  <currencyReference> IdentifiedCurrencyReference </currencyReference> [1]
  'Reference to a currency defined elsewhere in the document'

End Choice
End Group: CurrencyAndDeterminationMethod.model
  <paymentCurrency> PaymentCurrency </paymentCurrency> [0..1]
  'DEPRECATED. Currency in which the payment relating to the leg amount (equity amount
  or interest amount) or the dividend will be denominated.'

  <dividendFxTriggerDate> DividendPaymentDate </dividendFxTriggerDate> [0..1]
  'Specifies the date on which the FX rate will be considered in the case of a Composite FX swap.'

  <interestAccrualsMethod> InterestAccrualsCompoundingMethod </interestAccrualsMethod> [0..1]
  'Defines the way in which interests are accrued: the applicable rate (fixed or
  floating reference) and the compounding method.', 'FpML entity'

  <numberOfIndexUnits> NonNegativeDecimal </numberOfIndexUnits> [0..1]
  'Defines the Number Of Index Units applicable to a Dividend.'

  <declaredCashDividendPercentage> NonNegativeDecimal </declaredCashDividendPercentage> [0..1]
  'Declared Cash Dividend Percentage.'

  <declaredCashEquivalentDividendPercentage> NonNegativeDecimal
  </declaredCashEquivalentDividendPercentage> [0..1]
  'Declared Cash Equivalent Dividend Percentage.'

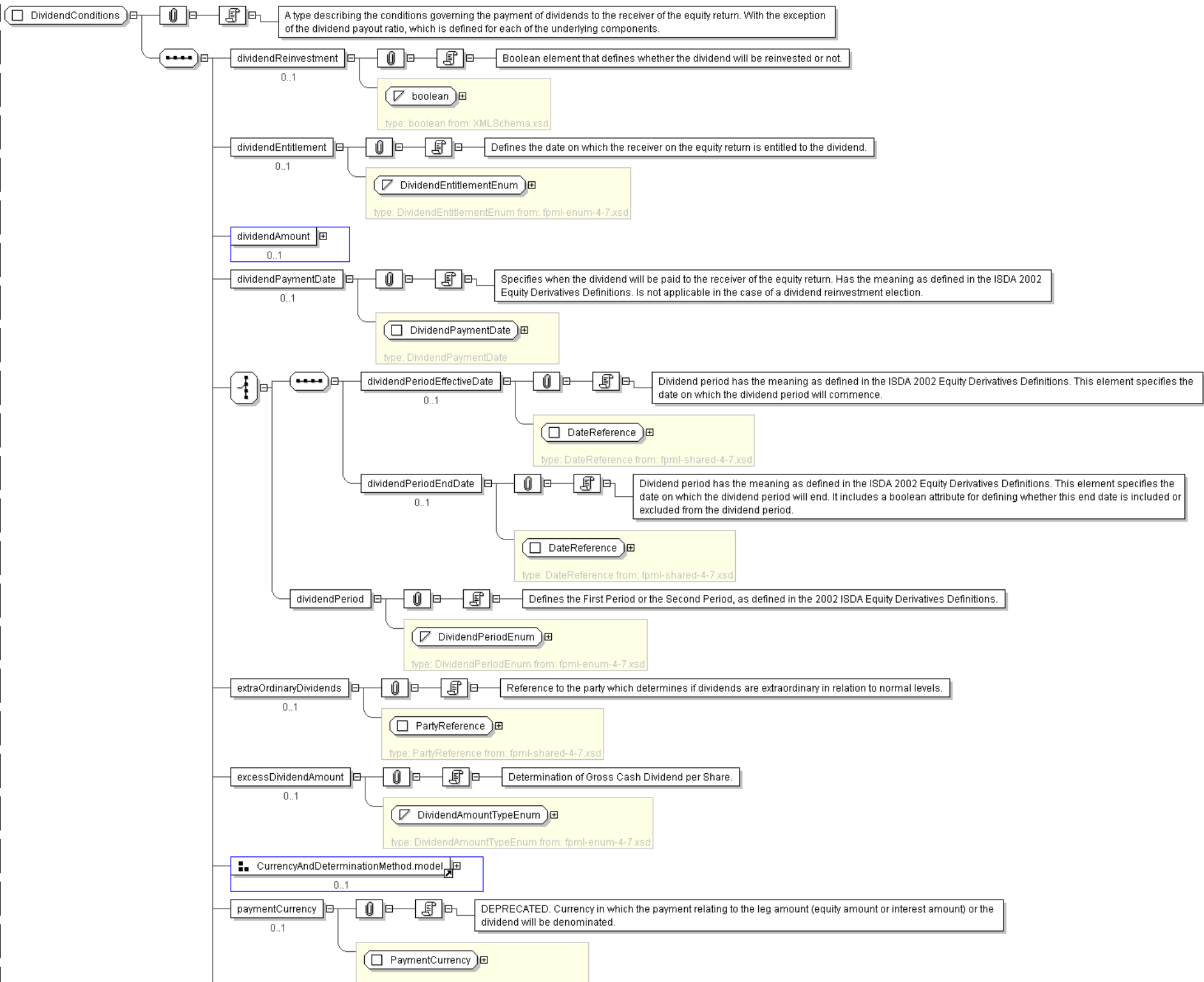
  <nonCashDividendTreatment> NonCashDividendTreatmentEnum </nonCashDividendTreatment> [0..1]
  'Defines treatment of Non-Cash Dividends.'

  <dividendComposition> DividendCompositionEnum </dividendComposition> [0..1]
  'Defines how the composition of Dividends is to be determined.'

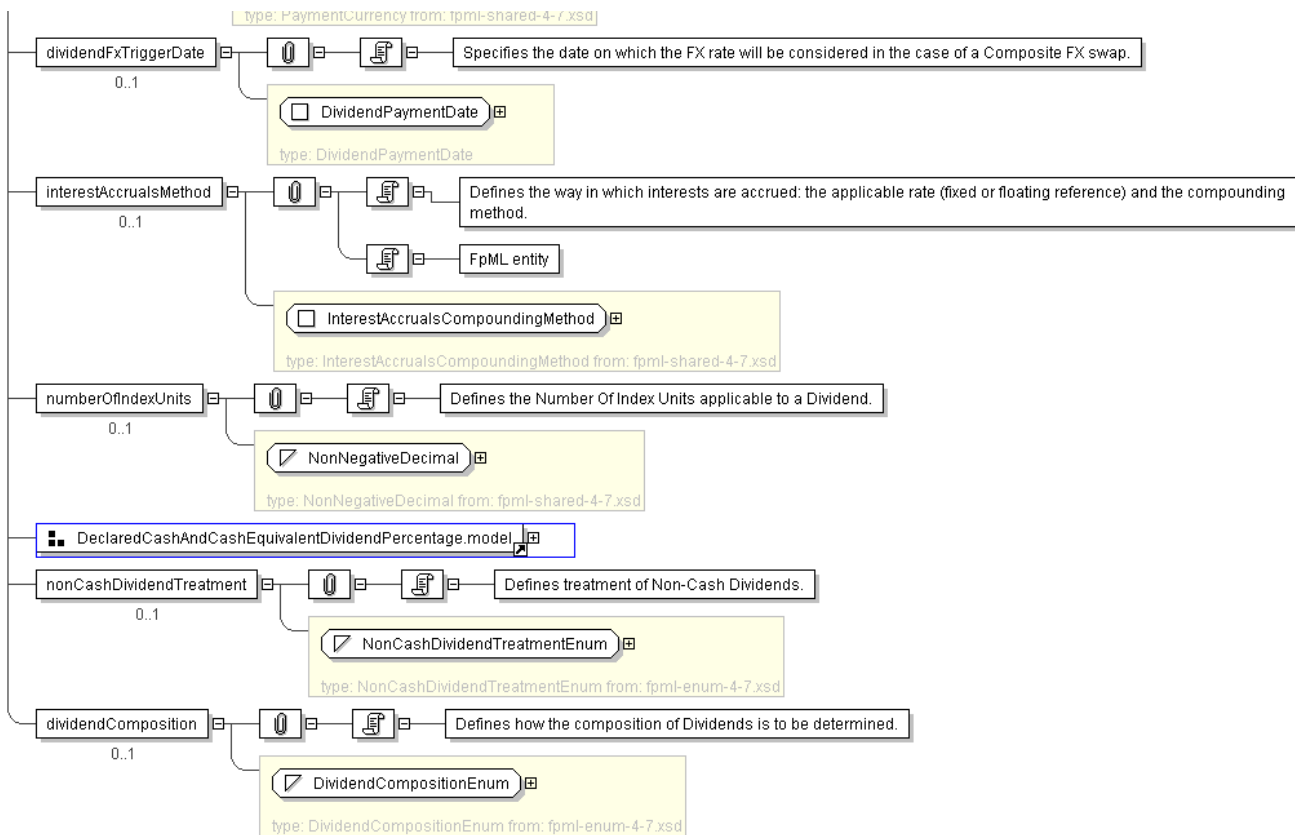
</...>

```

## Diagram







## Schema Component Representation

```

<xsd:complexType name="DividendConditions">
  <xsd:sequence>
    <xsd:element name="dividendReinvestment" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dividendEntitlement" type="DividendEntitlementEnum" minOccurs="0"/>
    <xsd:element name="dividendAmount" type="DividendAmountTypeEnum" minOccurs="0"/>
    <xsd:element name="dividendPaymentDate" type="DividendPaymentDate" minOccurs="0"/>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="dividendPeriodEffectiveDate" type="DateReference" minOccurs="0"/>
        <xsd:element name="dividendPeriodEndDate" type="DateReference" minOccurs="0"/>
      </xsd:sequence>
      <xsd:element name="dividendPeriod" type="DividendPeriodEnum"/>
    </xsd:choice>
    <xsd:element name="extraOrdinaryDividends" type="PartyReference" minOccurs="0"/>
    <xsd:element name="excessDividendAmount" type="DividendAmountTypeEnum" minOccurs="0"/>
    <xsd:group ref="CurrencyAndDeterminationMethod.model" minOccurs="0"/>
    <xsd:element name="paymentCurrency" type="PaymentCurrency" minOccurs="0"
      deprecated="true" deprecatedReason="The model is wrong since it has an intradocument
      reference that is not clear. Current PaymentCurrency model and elements using this type
      are deprecated. Instead, ReturnSwapCurrency.model above, the choice between
      currency, determinationMethod, and currencyReference (of type CurrencyReference), should
      be used."/>
    <xsd:element name="dividendFxTriggerDate" type="DividendPaymentDate" minOccurs="0"/>
    <xsd:element name="interestAccrualsMethod" type="InterestAccrualsCompoundingMethod"
      minOccurs="0"/>
    <xsd:element name="numberOfIndexUnits" type="NonNegativeDecimal" minOccurs="0"/>
    <xsd:group ref="DeclaredCashAndCashEquivalentDividendPercentage.model"/>
    <xsd:element name="nonCashDividendTreatment" type="NonCashDividendTreatmentEnum"
      minOccurs="0"/>
    <xsd:element name="dividendComposition" type="DividendCompositionEnum" minOccurs="0"/>
  </xsd:sequence>
</complexType>

```

Complex Type: **DividendPaymentDate**

Super-types:	None
Sub-types:	None

Name	DividendPaymentDate
Used by (from the same schema document)	Complex Type <a href="#">DividendConditions</a> , Complex Type <a href="#">DividendConditions</a>
Abstract	no
Documentation	A type describing the date on which the dividend will be paid/received. This type is also used to specify the date on which the FX rate will be determined, when applicable.

XML Instance Representation

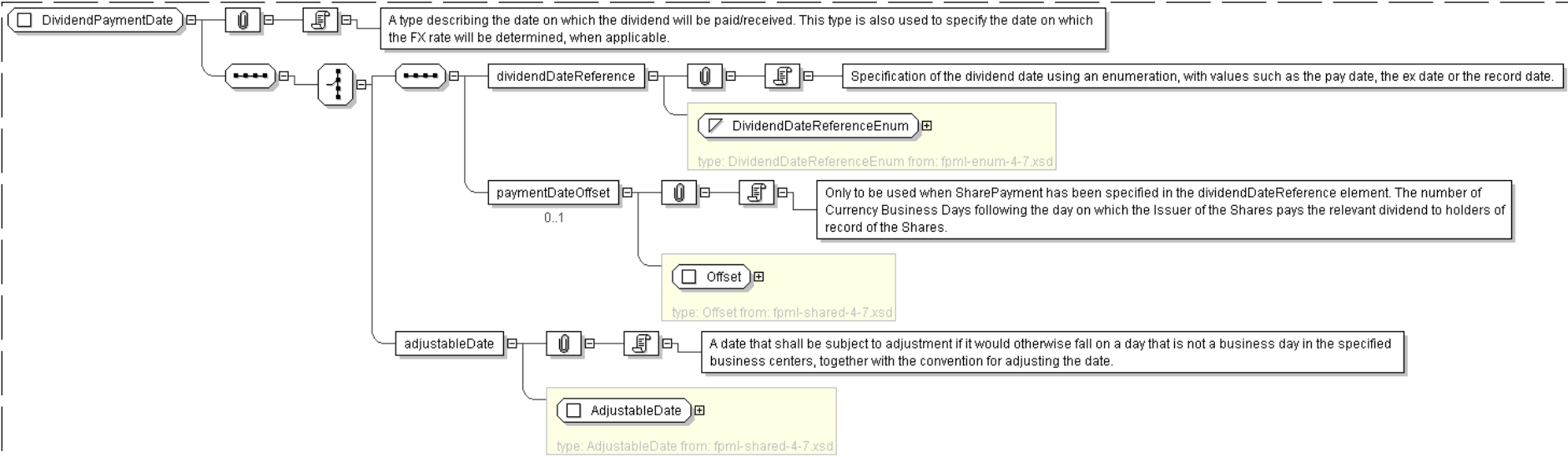
```
<...>
Start Choice [1]
  <dividendDateReference> DividendDateReferenceEnum </dividendDateReference> [1]
  'Specification of the dividend date using an enumeration, with values such as the pay date,
  the ex date or the record date.'

  <paymentDateOffset> Offset </paymentDateOffset> [0..1]
  'Only to be used when SharePayment has been specified in the dividendDateReference element.
  The number of Currency Business Days following the day on which the Issuer of the Shares
  pays the relevant dividend to holders of record of the Shares.'

  <adjustableDate> AdjustableDate </adjustableDate> [1]
  'A date that shall be subject to adjustment if it would otherwise fall on a day that is not
  a business day in the specified business centers, together with the convention for
  adjusting the date.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DividendPaymentDate">
  <xsd:sequence>
```

```
<xsd:choice>
  <xsd:sequence>
    <xsd:element name="dividendDateReference" type=" DividendDateReferenceEnum " />
    <xsd:element name="paymentDateOffset" type=" Offset " minOccurs="0" />
  </xsd:sequence>
  <xsd:element name="adjustableDate" type=" AdjustableDate " />
</xsd:choice>
</xsd:sequence>
</xsd:complexType>
```

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Complex Type: **DividendPeriod**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DividendPeriodDividend</a> (by extension)</li></ul>

Name	DividendPeriod
Abstract	yes
Documentation	Abstract base class of all time bounded dividend period types.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<unadjustedStartDate> IdentifiedDate </unadjustedStartDate> [1]
  'Unadjusted inclusive dividend period start date.'

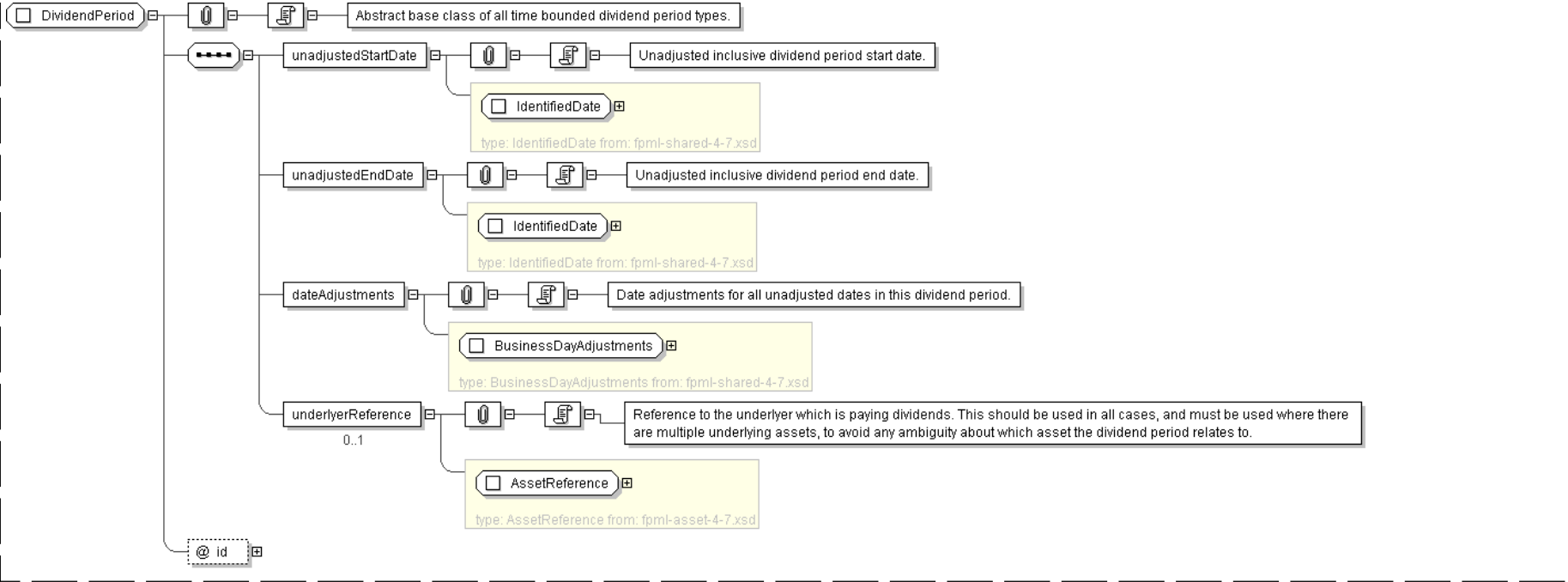
<unadjustedEndDate> IdentifiedDate </unadjustedEndDate> [1]
  'Unadjusted inclusive dividend period end date.'

<dateAdjustments> BusinessDayAdjustments </dateAdjustments> [1]
  'Date adjustments for all unadjusted dates in this dividend period.'

<underlyerReference> AssetReference </underlyerReference> [0..1]
  'Reference to the underlyer which is paying dividends. This should be used in all cases,
  and must be used where there are multiple underlying assets, to avoid any ambiguity about
  which asset the dividend period relates to.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DividendPeriod" abstract="true">
  <xsd:sequence>
    <xsd:element name="unadjustedStartDate" type=" IdentifiedDate " />
    <xsd:element name="unadjustedEndDate" type=" IdentifiedDate " />
    <xsd:element name="dateAdjustments" type=" BusinessDayAdjustments " />
    <xsd:element name="underlyingReference" type=" AssetReference " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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Complex Type: DividendPeriodDividend

Super-types:	<a href="#">DividendPeriod</a> < <b>DividendPeriodDividend</b> (by extension)
Sub-types:	None
Name	DividendPeriodDividend
Used by (from the same schema document)	Complex Type <a href="#">DividendAdjustment</a>
Abstract	no
Documentation	A time bounded dividend period, with an expected dividend for each period.

XML Instance Representation

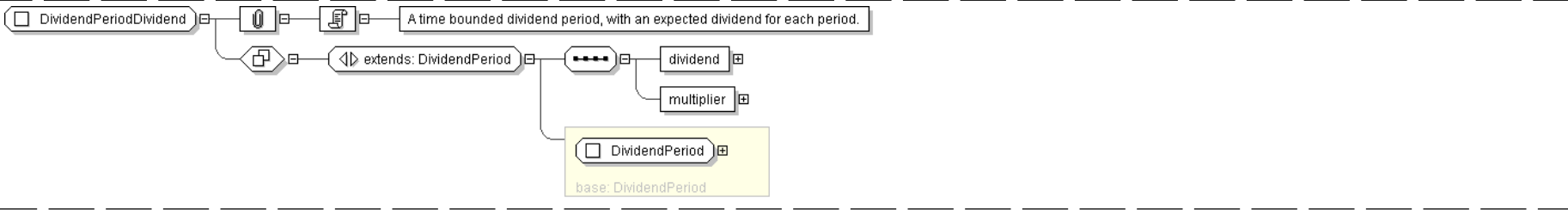
```
<...
  id=" xsd:ID [0..1]">
  <unadjustedStartDate> IdentifiedDate </unadjustedStartDate> [1]
  'Unadjusted inclusive dividend period start date.'

  <unadjustedEndDate> IdentifiedDate </unadjustedEndDate> [1]
  'Unadjusted inclusive dividend period end date.'

  <dateAdjustments> BusinessDayAdjustments </dateAdjustments> [1]
  'Date adjustments for all unadjusted dates in this dividend period.'
```

```
<underlyerReference> AssetReference </underlyerReference> [0..1]
'Reference to the underlyer which is paying dividends. This should be used in all cases,
and must be used where there are multiple underlying assets, to avoid any ambiguity about
which asset the dividend period relates to.'Money </dividend> [1]
'Expected dividend in this period.'PositiveDecimal </multiplier> [1]
'Multiplier is a percentage value which is used to produce Deviation by multiplying
the difference between Expected Dividend and Actual Dividend Deviation = Multiplier *
(Expected Dividend - Actual Dividend).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DividendPeriodDividend">
  <xsd:complexContent>
    <xsd:extension base=" DividendPeriod ">
      <xsd:sequence>
        <xsd:element name="dividend" type=" Money "/>
        <xsd:element name="multiplier" type=" PositiveDecimal "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **EquityCorporateEvents**

Super-types:	None
Sub-types:	None

Name	EquityCorporateEvents
Used by (from the same schema document)	Complex Type <a href="#">ExtraordinaryEvents</a> , Complex Type <a href="#">ExtraordinaryEvents</a>
Abstract	no
Documentation	A type for defining the merger events and their treatment.

XML Instance Representation

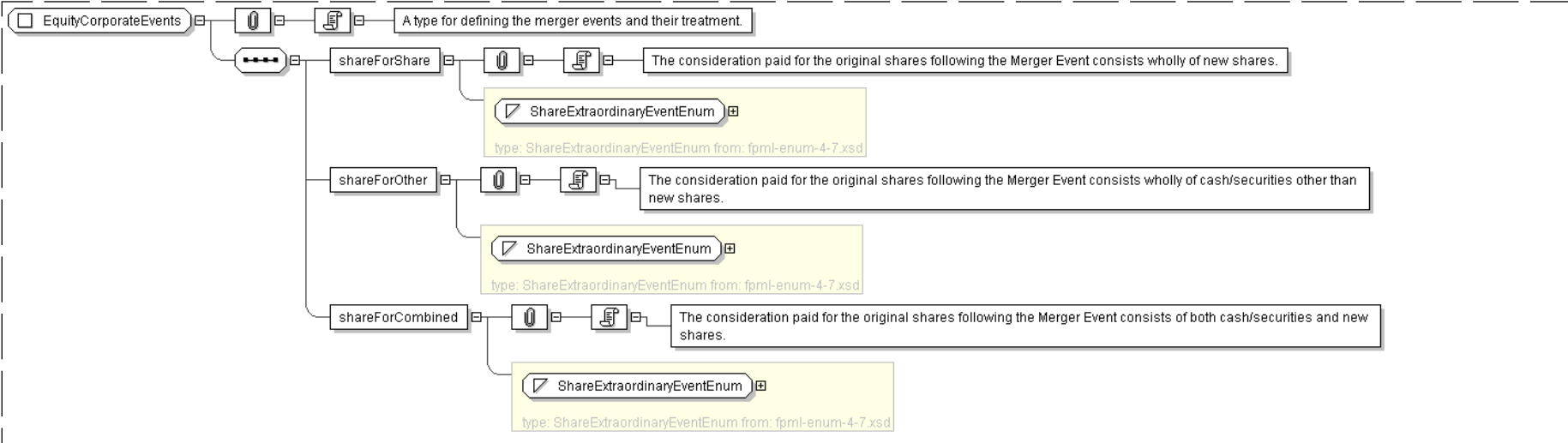
```
<...>
<shareForShare> ShareExtraordinaryEventEnum </shareForShare> [1]
'The consideration paid for the original shares following the Merger Event consists wholly
of new shares.'

<shareForOther> ShareExtraordinaryEventEnum </shareForOther> [1]
'The consideration paid for the original shares following the Merger Event consists wholly
of cash/securities other than new shares.'

<shareForCombined> ShareExtraordinaryEventEnum </shareForCombined> [1]
'The consideration paid for the original shares following the Merger Event consists of
both cash/securities and new shares.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityCorporateEvents">
  <xsd:sequence>
    <xsd:element name="shareForShare" type="ShareExtraordinaryEventEnum" />
    <xsd:element name="shareForOther" type="ShareExtraordinaryEventEnum" />
    <xsd:element name="shareForCombined" type="ShareExtraordinaryEventEnum" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: EquityPremium

Super-types:	<a href="#">PaymentBase</a> < <b>EquityPremium</b> (by extension)
Sub-types:	None

Name	EquityPremium
Abstract	no
Documentation	A type used to describe the amount paid for an equity option.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <premiumType> PremiumTypeEnum </premiumType> [0..1]
  'Forward start Premium type'

  <paymentAmount> Money </paymentAmount> [0..1]
  'The currency amount of the payment.'

  <paymentDate> AdjustableDate </paymentDate> [0..1]
  'The payment date. This date is subject to adjustment in accordance with any applicable business day convention.'
```

<swapPremium> xsd:boolean </swapPremium> [0..1]

'Specifies whether or not the premium is to be paid in the style of payments under an interest rate swap contract.'

<pricePerOption> Money </pricePerOption> [0..1]

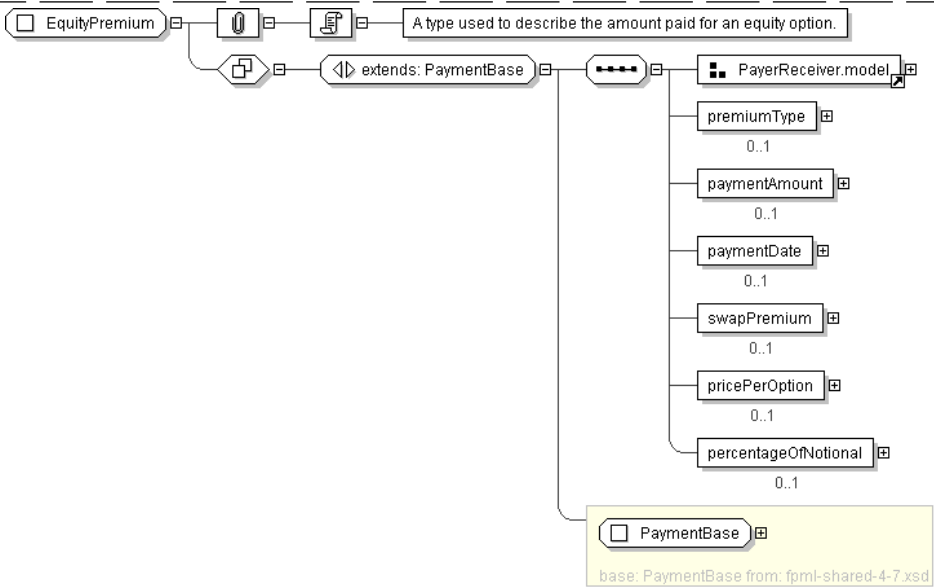
'The amount of premium to be paid expressed as a function of the number of options.'

<percentageOfNotional> xsd:decimal </percentageOfNotional> [0..1]

'The amount of premium to be paid expressed as a percentage of the notional value of the transaction. A percentage of 5% would be expressed as 0.05.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityPremium">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:group ref="PayerReceiver.model"/>
        <xsd:element name="premiumType" type="PremiumTypeEnum" minOccurs="0"/>
        <xsd:element name="paymentAmount" type="Money" minOccurs="0"/>
        <xsd:element name="paymentDate" type="AdjustableDate" minOccurs="0"/>
        <xsd:element name="swapPremium" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="pricePerOption" type="Money" minOccurs="0"/>
        <xsd:element name="percentageOfNotional" type="xsd:decimal" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **EquityStrike**

Super-types:	None
Sub-types:	None

Name	EquityStrike
Abstract	no
Documentation	A type for defining the strike price for an equity option. The strike price is either: (i) in respect of an index option transaction, the level of the relevant index specified or otherwise determined in the transaction; or (ii) in respect of a share option transaction, the price per share specified or otherwise determined in the transaction. This can be expressed either as a percentage of notional amount or as an absolute value.

XML Instance Representation

```
<...>
Start Choice [1]
  <strikePrice> xsd:decimal </strikePrice> [1]
  'The price or level at which the option has been struck.'

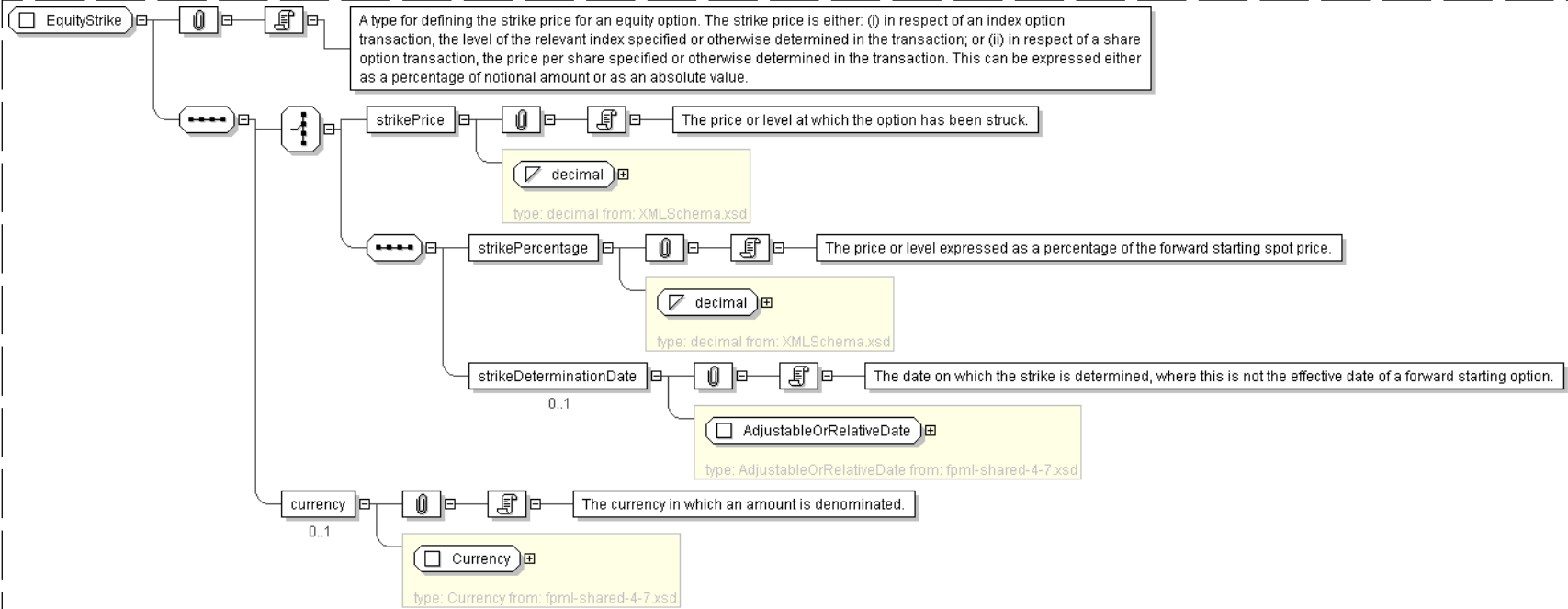
  <strikePercentage> xsd:decimal </strikePercentage> [1]
  'The price or level expressed as a percentage of the forward starting spot price.'

  <strikeDeterminationDate> AdjustableOrRelativeDate </strikeDeterminationDate> [0..1]
  'The date on which the strike is determined, where this is not the effective date of a
  forward starting option.'

End Choice
<currency> Currency </currency> [0..1]
  'The currency in which an amount is denominated.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EquityStrike">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="strikePrice" type="xsd:decimal" />
      <xsd:sequence>
        <xsd:element name="strikePercentage" type="xsd:decimal" />
        <xsd:element name="strikeDeterminationDate" type="AdjustableOrRelativeDate" minOccurs="0" />
      </xsd:sequence>
    </xsd:choice>
    <xsd:element name="currency" type="Currency" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```



Complex Type: **EquityValuation**

Super-types:	None
Sub-types:	None
Name	EquityValuation
Used by (from the same schema document)	Complex Type <a href="#">DeprecatedVarianceLeg</a> , Complex Type <a href="#">DirectionalLegUnderlyerValuation</a> , Complex Type <a href="#">ReturnLegValuationPrice</a>
Abstract	no
Documentation	A type for defining how and when an equity option is to be valued.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
Start Choice [0..1]
  <valuationDate> AdjustableDateOrRelativeDateSequence </valuationDate> [1]
  'The term \"Valuation Date\" is assumed to have the meaning as defined in the ISDA 2002
  Equity Derivatives Definitions.'

  <valuationDates> AdjustableRelativeOrPeriodicDates </valuationDates> [1]
  'Specifies the interim equity valuation dates of the swap.'

End Choice
<valuationTimeType> TimeTypeEnum </valuationTimeType> [0..1]
'The time of day at which the calculation agent values the underlying, for example the
official closing time of the exchange.'

<valuationTime> BusinessCenterTime </valuationTime> [0..1]
'The specific time of day at which the calculation agent values the underlying.'

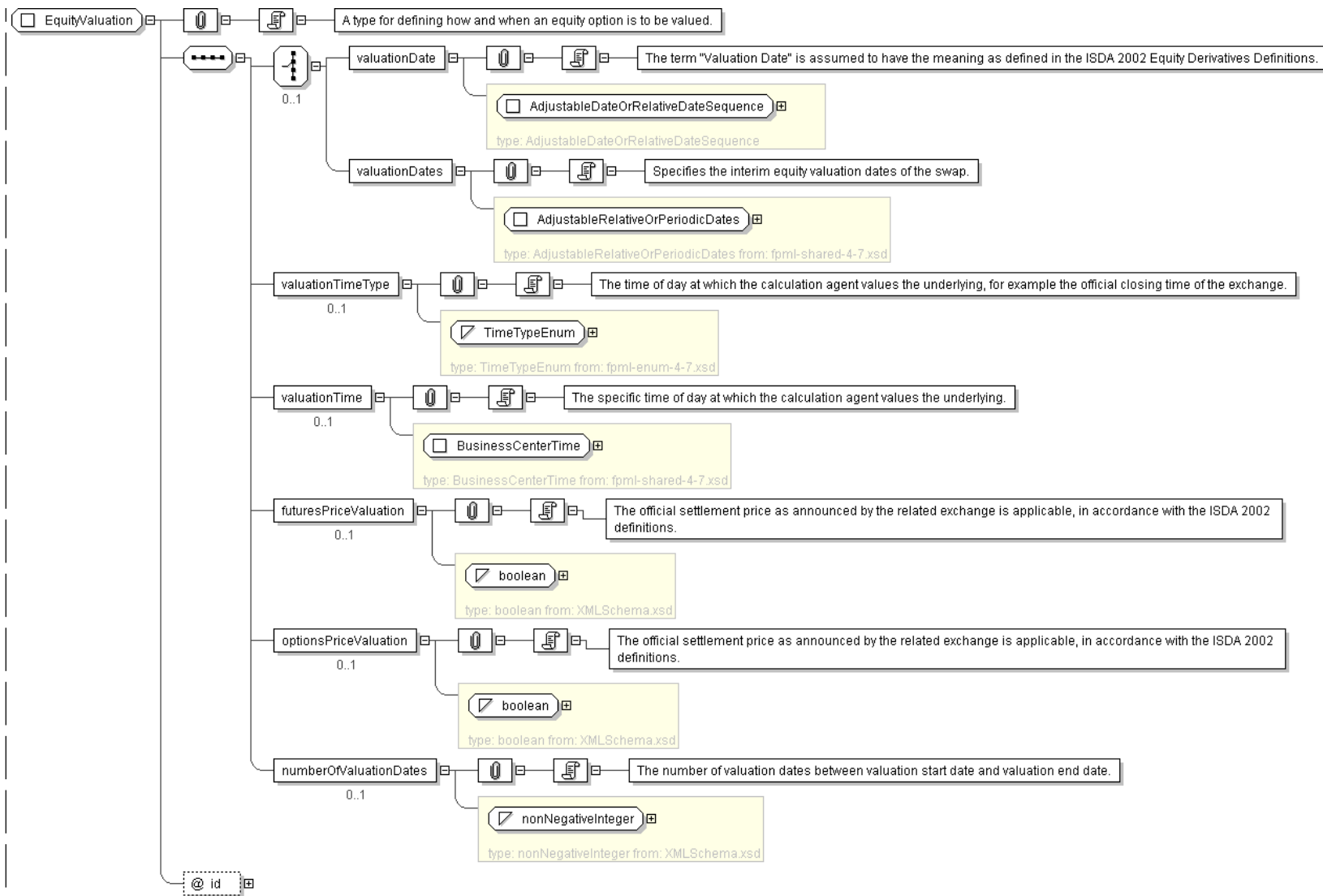
<futuresPriceValuation> xsd:boolean </futuresPriceValuation> [0..1]
'The official settlement price as announced by the related exchange is applicable,
in accordance with the ISDA 2002 definitions.'

<optionsPriceValuation> xsd:boolean </optionsPriceValuation> [0..1]
'The official settlement price as announced by the related exchange is applicable,
in accordance with the ISDA 2002 definitions.'

<numberOfValuationDates> xsd:nonNegativeInteger </numberOfValuationDates> [0..1]
'The number of valuation dates between valuation start date and valuation end date.'

</...>
```

Diagram



#### Schema Component Representation

```
<xsd:complexType name="EquityValuation">
  <xsd:sequence>
    <xsd:choice minOccurs="0">
      <xsd:element name="valuationDate" type="AdjustableDateOrRelativeDateSequence" />
      <xsd:element name="valuationDates" type="AdjustableRelativeOrPeriodicDates" />
    </xsd:choice>
    <xsd:element name="valuationTimeType" type="TimeTypeEnum" minOccurs="0"/>
    <xsd:element name="valuationTime" type="BusinessCenterTime" minOccurs="0"/>
    <xsd:element name="futuresPriceValuation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="optionsPriceValuation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberOfValuationDates" type="xsd:nonNegativeInteger" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

Complex Type: **ExtraordinaryEvents**

Super-types:	None
Sub-types:	None
Name	ExtraordinaryEvents
Used by (from the same schema document)	Complex Type <a href="#">NettedSwapBase</a> , Complex Type <a href="#">ReturnSwap</a>
Abstract	no
Documentation	Where the underlying is shares, defines market events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.

XML Instance Representation

```
<...>
<mergerEvents> EquityCorporateEvents </mergerEvents> [0..1]
  'Occurs when the underlying ceases to exist following a merger between the Issuer and
  another company.'

<tenderOffer> xsd:boolean </tenderOffer> [0..1]
  'If present and true, then tender offer is applicable.'

<tenderOfferEvents> EquityCorporateEvents </tenderOfferEvents> [0..1]
  'ISDA 2002 Equity Tender Offer Events.'

<compositionOfCombinedConsideration> xsd:boolean </compositionOfCombinedConsideration> [0..1]
  'If present and true, then composition of combined consideration is applicable.'

<indexAdjustmentEvents> IndexAdjustmentEvents </indexAdjustmentEvents> [0..1]
  'ISDA 2002 Equity Index Adjustment Events.'

Start Choice [1]
<additionalDisruptionEvents> AdditionalDisruptionEvents </additionalDisruptionEvents> [1]
  'ISDA 2002 Equity Additional Disruption Events.'

<failureToDeliver> xsd:boolean </failureToDeliver> [1]
  'If true, failure to deliver is applicable.'

End Choice

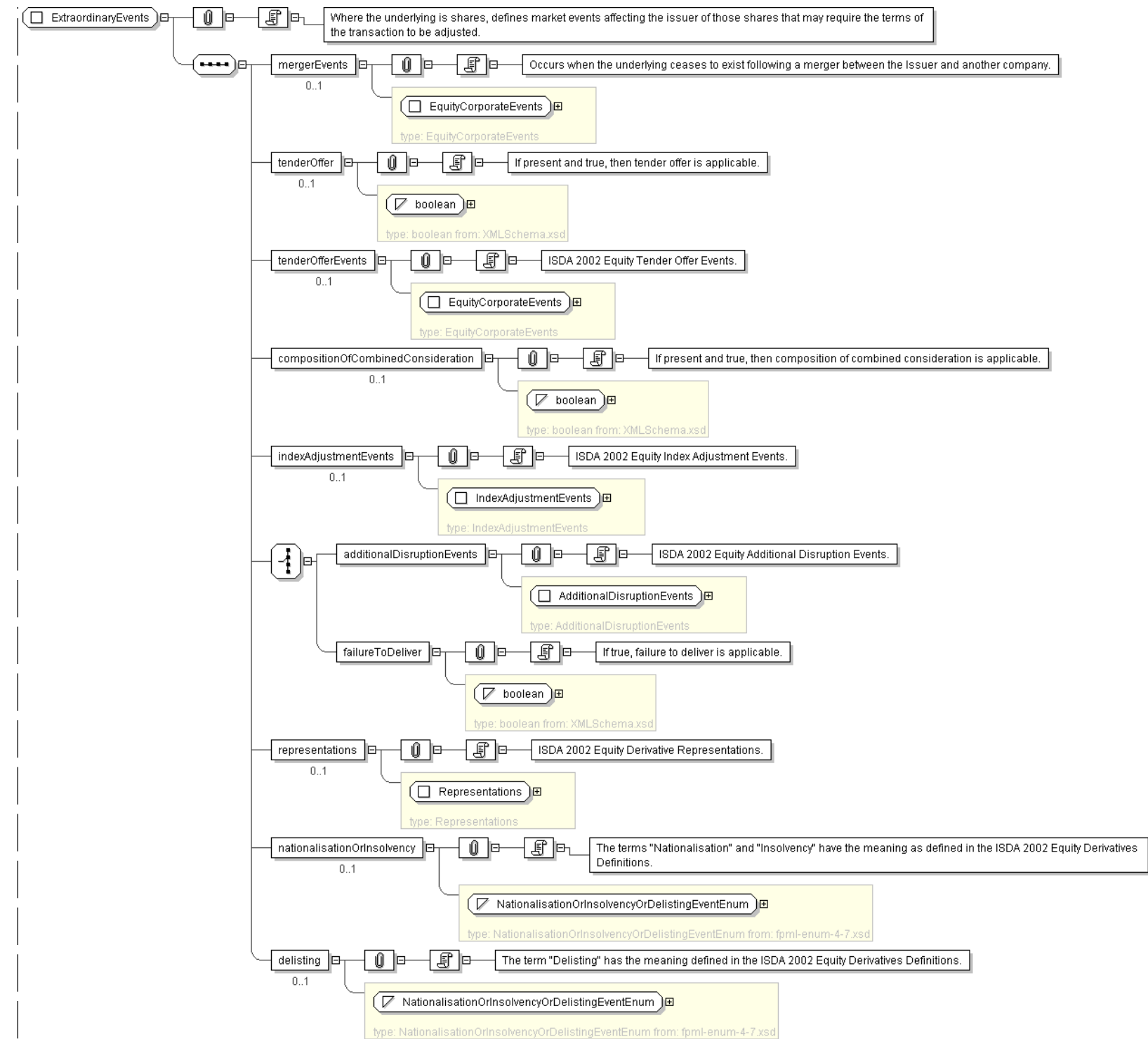
<representations> Representations </representations> [0..1]
  'ISDA 2002 Equity Derivative Representations.'

<nationalisationOrInsolvency> NationalisationOrInsolvencyOrDelistingEventEnum
</nationalisationOrInsolvency> [0..1]
  'The terms \"Nationalisation\" and \"Insolvency\" have the meaning as defined in the ISDA
  2002 Equity Derivatives Definitions.'

<delisting> NationalisationOrInsolvencyOrDelistingEventEnum </delisting> [0..1]
  'The term \"Delisting\" has the meaning defined in the ISDA 2002 Equity
  Derivatives Definitions.'

</...>
```

Diagram



```
<xsd:complexType name="ExtraordinaryEvents">
  <xsd:sequence>
    <xsd:element name="mergerEvents" type="EquityCorporateEvents" minOccurs="0"/>
    <xsd:element name="tenderOffer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="tenderOfferEvents" type="EquityCorporateEvents" minOccurs="0"/>
    <xsd:element name="compositionOfCombinedConsideration" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="indexAdjustmentEvents" type="IndexAdjustmentEvents" minOccurs="0"/>
    <xsd:choice>
      <xsd:element name="additionalDisruptionEvents" type="AdditionalDisruptionEvents"/>
      <xsd:element name="failureToDeliver" type="xsd:boolean"/>
    </xsd:choice>
    <xsd:element name="representations" type="Representations" minOccurs="0"/>
    <xsd:element name="nationalisationOrInsolvency"
      type="NationalisationOrInsolvencyOrDelistingEventEnum" minOccurs="0"/>
    <xsd:element name="delisting" type="NationalisationOrInsolvencyOrDelistingEventEnum"
      minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FloatingRateCalculationReference**

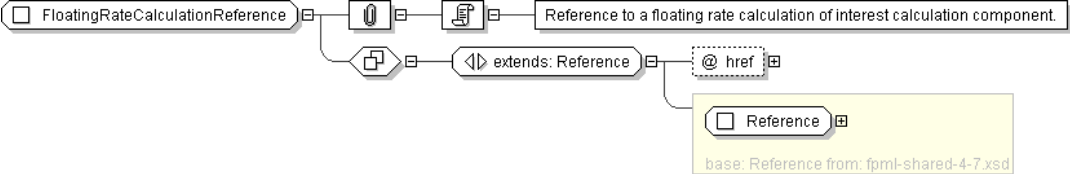
Super-types:	<a href="#">Reference</a> < <b>FloatingRateCalculationReference</b> (by extension)
Sub-types:	None

Name	FloatingRateCalculationReference
Used by (from the same schema document)	Complex Type <a href="#">CompoundingRate</a>
Abstract	no
Documentation	Reference to a floating rate calculation of interest calculation component.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FloatingRateCalculationReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF"
        use="required" reference="floatingRateCalculation"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **IndexAdjustmentEvents**

Super-types:	None
Sub-types:	None

Name	IndexAdjustmentEvents
Used by (from the same schema document)	Complex Type <a href="#">ExtraordinaryEvents</a>

Abstract	no
Documentation	Defines the specification of the consequences of Index Events as defined by the 2002 ISDA Equity Derivatives Definitions.

XML Instance Representation

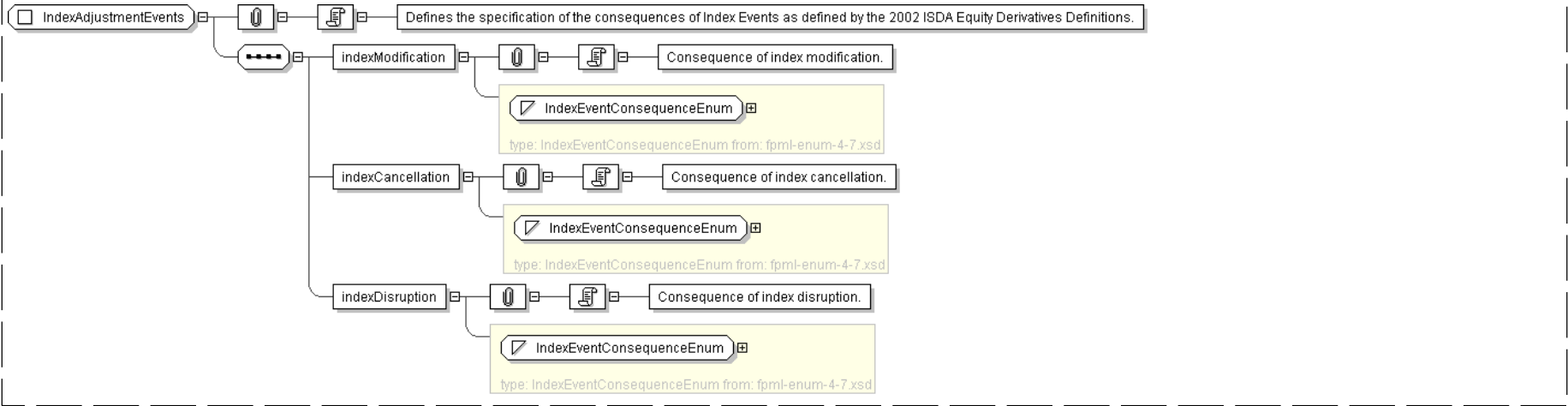
```
<...>
<indexModification> IndexEventConsequenceEnum </indexModification> [1]
'Consequence of index modification.'

<indexCancellation> IndexEventConsequenceEnum </indexCancellation> [1]
'Consequence of index cancellation.'

<indexDisruption> IndexEventConsequenceEnum </indexDisruption> [1]
'Consequence of index disruption.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IndexAdjustmentEvents">
  <xsd:sequence>
    <xsd:element name="indexModification" type=" IndexEventConsequenceEnum "/>
    <xsd:element name="indexCancellation" type=" IndexEventConsequenceEnum "/>
    <xsd:element name="indexDisruption" type=" IndexEventConsequenceEnum "/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: InterestCalculation

Super-types:	<a href="#">InterestAccrualsMethod</a> < <b>InterestCalculation</b> (by extension)
Sub-types:	None

Name	InterestCalculation
Used by (from the same schema document)	Complex Type <a href="#">InterestLeg</a>
Abstract	no
Documentation	Specifies the calculation method of the interest rate leg of the equity swap. Includes the floating or fixed rate calculation definitions, along with the determination of the day count fraction.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
```

```
' Start Choice [1]
  <floatingRateCalculation> FloatingRateCalculation </floatingRateCalculation> [1]
  'The floating rate calculation definitions'

  <fixedRate> xsd:decimal </fixedRate> [1]
  'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate
  of 5% would be represented as 0.05.'

End Choice
<dayCountFraction> DayCountFraction </dayCountFraction> [1]
'The day count fraction.'

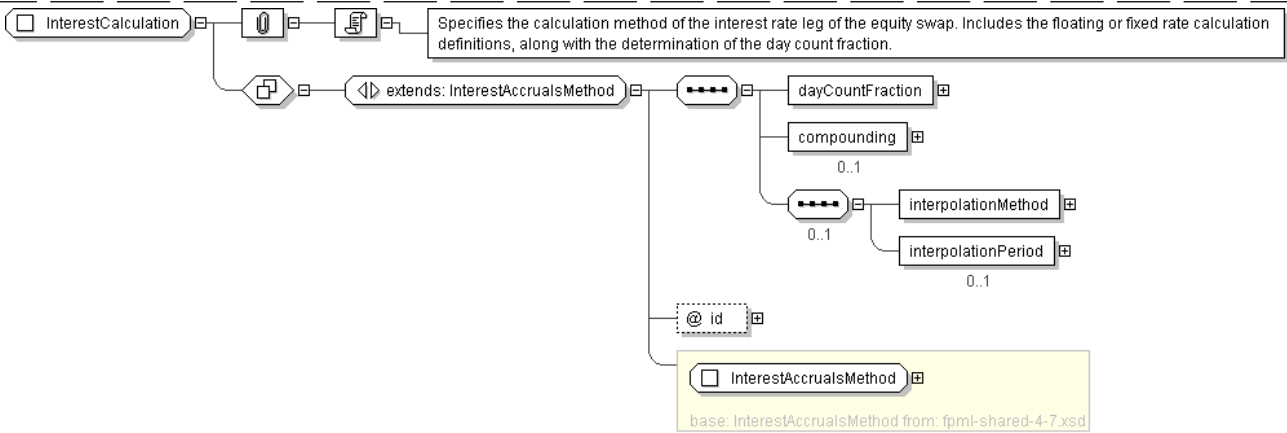
<compounding> Compounding </compounding> [0..1]
'Defines compounding rates on the Interest Leg.'

Start Sequence [0..1]
  <interpolationMethod> InterpolationMethod </interpolationMethod> [1]
  'Specifies the type of interpolation used.'

  <interpolationPeriod> InterpolationPeriodEnum </interpolationPeriod> [0..1]
  'Defines applicable periods for interpolation.'

End Sequence
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestCalculation">
  <xsd:complexContent>
    <xsd:extension base="InterestAccrualsMethod" />
    <xsd:sequence>
      <xsd:element name="dayCountFraction" type="DayCountFraction" />
      <xsd:element name="compounding" type="Compounding" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="interpolationMethod" type="InterpolationMethod" />
        <xsd:element name="interpolationPeriod" type="InterpolationPeriodEnum" minOccurs="0"/>
      </xsd:sequence>
    </xsd:sequence>
    <xsd:attribute name="id" type="xsd:ID" />
  </xsd:complexContent>
</xsd:complexType>
```

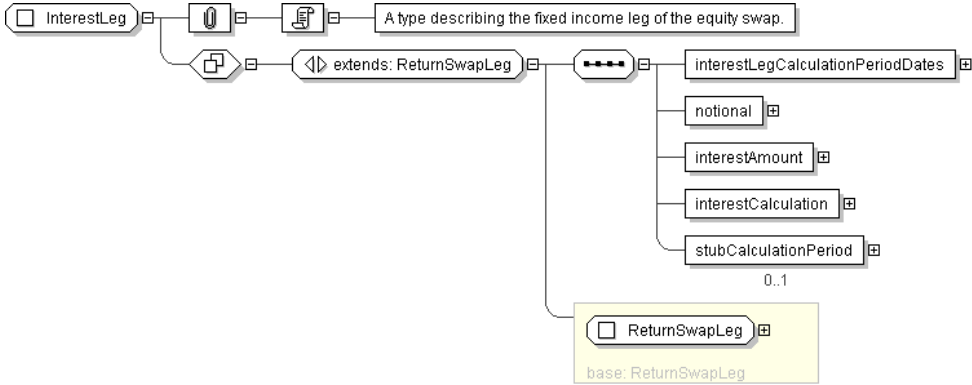
Super-types:	<a href="#">Leg</a> < <a href="#">ReturnSwapLeg</a> (by extension) < <b>InterestLeg</b> (by extension)
Sub-types:	None
Name	InterestLeg
Used by (from the same schema document)	Element <a href="#">InterestLeg</a>
Abstract	no
Documentation	A type describing the fixed income leg of the equity swap.

XML Instance Representation

```
<...  
  legIdentifier=" xsd:ID [0..1]  
'DEPRECATED This element will be renamed to id in the next major FpML version.'  
  
*>  
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
'A reference to the party responsible for making the payments defined by this structure.'  
  
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
'A reference to the party that receives the payments corresponding to this structure.'  
  
  <paymentFrequency> Frequency </paymentFrequency> [0..1]  
'DEPRECATED This element will be removed in the next FpML major version. Frequency at which this leg pays.'  
  
  <interestLegCalculationPeriodDates> InterestLegCalculationPeriodDates  
  </interestLegCalculationPeriodDates> [1]  
'Component that holds the various dates used to specify the interest leg of the equity swap. It is used to define the InterestPeriodDates identifier.'  
  
  <notional> ReturnSwapNotional </notional> [1]  
'Specifies the notional of a return type swap. When used in the equity leg, the definition will typically combine the actual amount (using the notional component defined by the FpML industry group) and the determination method. When used in the interest leg, the definition will typically point to the definition of the equity leg.'  
  
  <interestAmount> LegAmount </interestAmount> [1]  
'Specifies, in relation to each Interest Payment Date, the amount to which the Interest Payment Date relates. Unless otherwise specified, this term has the meaning defined in the ISDA 2000 ISDA Definitions.'  
  
  <interestCalculation> InterestCalculation </interestCalculation> [1]  
'Specifies the calculation method of the interest rate leg of the equity swap. Includes the floating or fixed rate calculation definitions, along with the determination of the day count fraction.'  
  
  <stubCalculationPeriod> StubCalculationPeriod </stubCalculationPeriod> [0..1]  
'Specifies the stub calculation period.'  
  
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="InterestLeg">
  <xsd:complexContent>
    <xsd:extension base="ReturnSwapLeg">
      <xsd:sequence>
        <xsd:element name="interestLegCalculationPeriodDates" type="
InterestLegCalculationPeriodDates" />
        <xsd:element name="notional" type="ReturnSwapNotional" />
        <xsd:element name="interestAmount" type="LegAmount" />
        <xsd:element name="interestCalculation" type="InterestCalculation" />
        <xsd:element name="stubCalculationPeriod" type="StubCalculationPeriod" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: InterestLegCalculationPeriodDates

Super-types:	None
Sub-types:	None
Name	InterestLegCalculationPeriodDates
Used by (from the same schema document)	Complex Type <a href="#">InterestLeg</a>
Abstract	no
Documentation	Component that holds the various dates used to specify the interest leg of the equity swap. It is used to define the InterestPeriodDates identifier.

XML Instance Representation

```
<...
id="xsd:ID [1]">
  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
  'Specifies the effective date of the equity swap. This global element is valid within
the equity swaps namespace. Within the FpML namespace, another effectiveDate global element
has been defined, that is different in the sense that it does not propose the choice
of referring to another date in the document.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
  'Specifies the termination date of the equity swap. This global element is valid within
the equity swaps namespace. Within the FpML namespace, another terminationDate global
element has been defined, that is different in the sense that it does not propose the choice
of referring to another date in the document.'

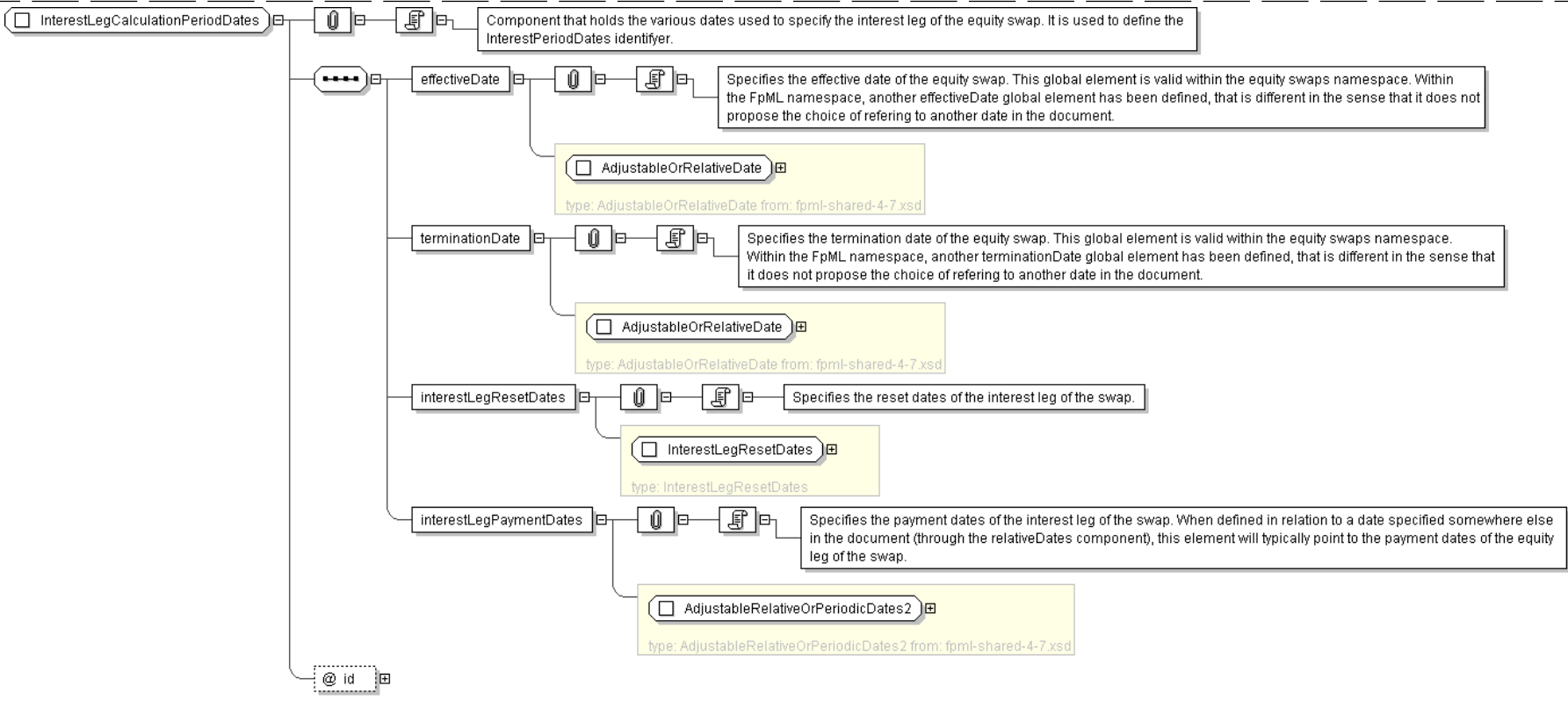
  <interestLegResetDates> InterestLegResetDates </interestLegResetDates> [1]
  'Specifies the reset dates of the interest leg of the swap.'

  <interestLegPaymentDates> AdjustableRelativeOrPeriodicDates2 </interestLegPaymentDates> [1]
  'Specifies the payment dates of the interest leg of the swap. When defined in relation to
```

a date specified somewhere else in the document (through the relativeDates component), this element will typically point to the payment dates of the equity leg of the swap.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestLegCalculationPeriodDates">
  <xsd:sequence>
    <xsd:element name="effectiveDate" type="AdjustableOrRelativeDate" />
    <xsd:element name="terminationDate" type="AdjustableOrRelativeDate" />
    <xsd:element name="interestLegResetDates" type="InterestLegResetDates" />
    <xsd:element name="interestLegPaymentDates" type="AdjustableRelativeOrPeriodicDates2" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" use="required"/>
</xsd:complexType>
```

[top](#)

Complex Type: InterestLegCalculationPeriodDatesReference

Super-types:	<a href="#">Reference</a> < <a href="#">InterestLegCalculationPeriodDatesReference</a> (by extension)
Sub-types:	None
Name	InterestLegCalculationPeriodDatesReference
Used by (from the same schema document)	Complex Type <a href="#">InterestLegResetDates</a>
Abstract	no
Documentation	Reference to the calculation period dates of the interest leg.

XML Schema Documentation

XML Instance Representation

<...  
  href="xsd:IDREF [1]"/>

Diagram

Schema Component Representation

<xsd:complexType name="InterestLegCalculationPeriodDatesReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference" >  
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="InterestLegCalculationPeriodDates"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>

[top](#)

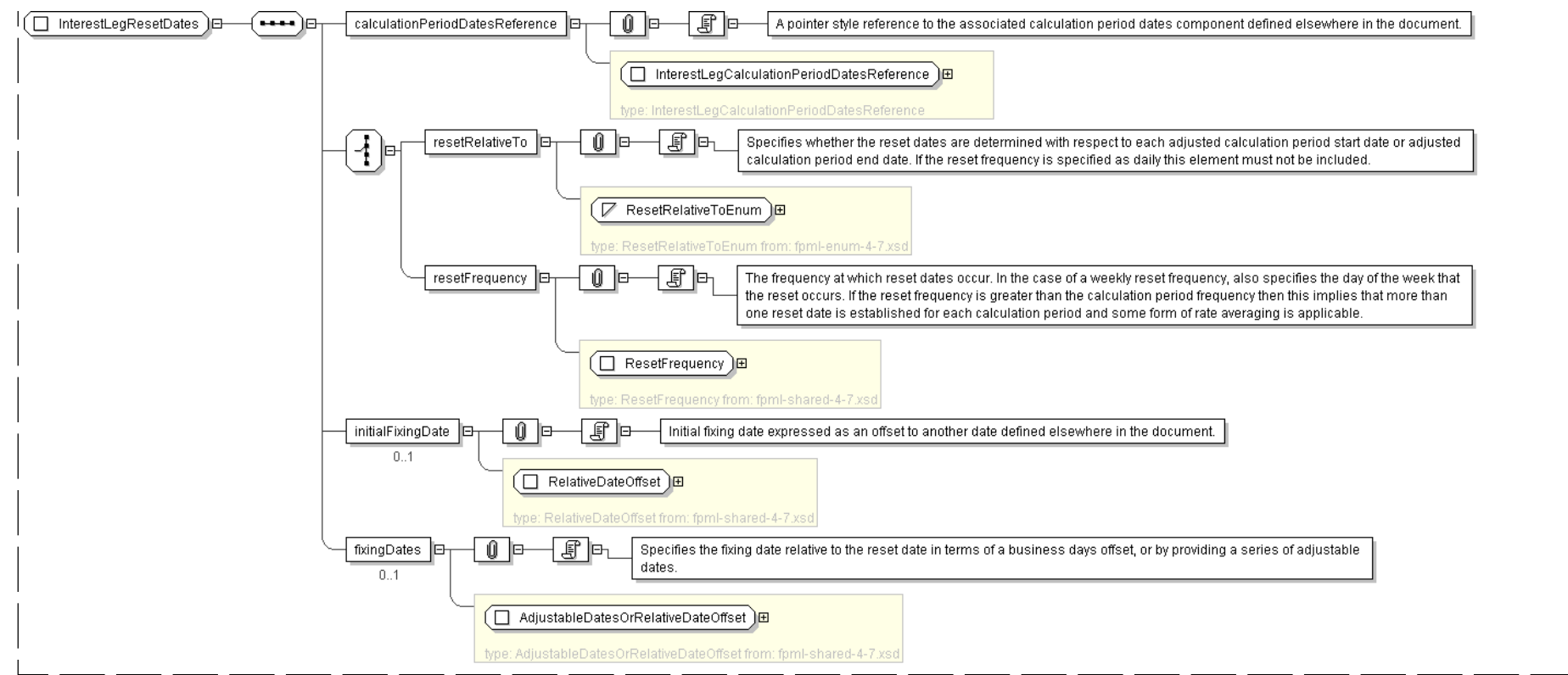
Complex Type: InterestLegResetDates

Super-types:	None
Sub-types:	None
Name	InterestLegResetDates
Used by (from the same schema document)	Complex Type <a href="#">InterestLegCalculationPeriodDates</a>
Abstract	no

XML Instance Representation

<...>  
  <calculationPeriodDatesReference> [InterestLegCalculationPeriodDatesReference](#)  
  </calculationPeriodDatesReference> [1]  
  'A pointer style reference to the associated calculation period dates component  
  defined elsewhere in the document.'  
  
  Start [Choice](#) [1]  
    <resetRelativeTo> [ResetRelativeToEnum](#) </resetRelativeTo> [1]  
    'Specifies whether the reset dates are determined with respect to each adjusted  
    calculation period start date or adjusted calculation period end date. If the reset  
    frequency is specified as daily this element must not be included.'  
  
    <resetFrequency> [ResetFrequency](#) </resetFrequency> [1]  
    'The frequency at which reset dates occur. In the case of a weekly reset frequency,  
    also specifies the day of the week that the reset occurs. If the reset frequency is  
    greater than the calculation period frequency then this implies that more than one reset  
    date is established for each calculation period and some form of rate averaging is applicable.'  
  
  End Choice  
  <initialFixingDate> [RelativeDateOffset](#) </initialFixingDate> [0..1]  
  'Initial fixing date expressed as an offset to another date defined elsewhere in the document.'  
  
  <fixingDates> [AdjustableDatesOrRelativeDateOffset](#) </fixingDates> [0..1]  
  'Specifies the fixing date relative to the reset date in terms of a business days offset, or  
  by providing a series of adjustable dates.'  
  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestLegResetDates">
  <xsd:sequence>
    <xsd:element name="calculationPeriodDatesReference"
      type="InterestLegCalculationPeriodDatesReference" />
    <xsd:choice>
      <xsd:element name="resetRelativeTo" type="ResetRelativeToEnum" />
      <xsd:element name="resetFrequency" type="ResetFrequency" />
    </xsd:choice>
    <xsd:element name="initialFixingDate" type="RelativeDateOffset" minOccurs="0"/>
    <xsd:element name="fixingDates" type="AdjustableDatesOrRelativeDateOffset" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LegAmount**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>ReturnSwapAmount (by extension)</li><li>DeprecatedVarianceAmount (by extension)</li></ul>
Name	LegAmount
Used by (from the same schema document)	Complex Type InterestLeg
Abstract	no
Documentation	A type describing the amount that will paid or received on each of the payment dates. This type is used to define both the Equity Amount and the Interest Amount.

XML Instance Representation

```
<...>
```

```
Start Group: CurrencyAndDeterminationMethod.model [0..1]
Start Choice [1]
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

  <determinationMethod> DeterminationMethod </determinationMethod> [1]
  'Specifies the method according to which an amount or a date is determined.'

  <currencyReference> IdentifiedCurrencyReference </currencyReference> [1]
  'Reference to a currency defined elsewhere in the document'

End Choice
End Group: CurrencyAndDeterminationMethod.model
<paymentCurrency> PaymentCurrency </paymentCurrency> [0..1]
'DEPRECATED. Currency in which the payment relating to the leg amount (equity amount
or interest amount) or the dividend will be denominated.'

Start Choice [1]
  <referenceAmount> ReferenceAmount </referenceAmount> [1]
  'Specifies the reference Amount when this term either corresponds to the standard
  ISDA Definition (either the 2002 Equity Definition for the Equity Amount, or the
  2000 Definition for the Interest Amount), or points to a term defined elsewhere in the
  swap document.'

  <formula> Formula </formula> [1]
  'Specifies a formula, with its description and components.'

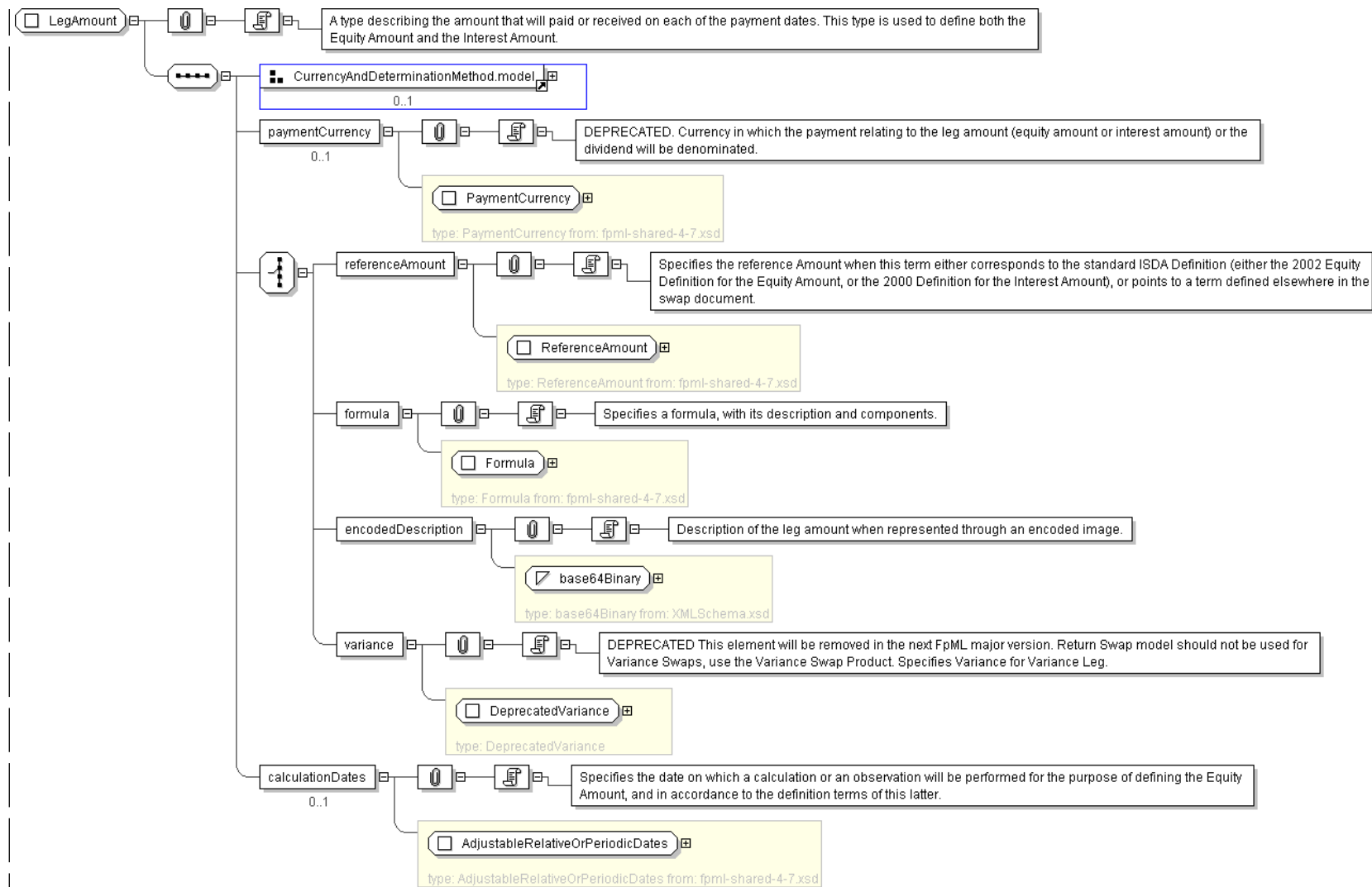
  <encodedDescription> xsd:base64Binary </encodedDescription> [1]
  'Description of the leg amount when represented through an encoded image.'

  <variance> DeprecatedVariance </variance> [1]
  'DEPRECATED This element will be removed in the next FpML major version. Return Swap
  model should not be used for Variance Swaps, use the Variance Swap Product. Specifies
  Variance for Variance Leg.'

End Choice
<calculationDates> AdjustableRelativeOrPeriodicDates </calculationDates> [0..1]
'Specifies the date on which a calculation or an observation will be performed for the
purpose of defining the Equity Amount, and in accordance to the definition terms of
this latter.'

</...>
```

Diagram



### Schema Component Representation

```

<xsd:complexType name="LegAmount">
  <xsd:sequence>
    <xsd:group ref="CurrencyAndDeterminationMethod.model" minOccurs="0"/>
    <xsd:element name="paymentCurrency" type="PaymentCurrency" minOccurs="0"
      deprecated="true" deprecatedReason="The model is wrong since it has an intradocument
      reference that is not clear. Current PaymentCurrency model and elements using this type
      are deprecated. Instead, the choice above between currency, determinationMethod,
      and currencyReference (of type CurrencyReference) should be used."/>
    <xsd:choice>
      <xsd:element name="referenceAmount" type="ReferenceAmount" />
      <xsd:element name="formula" type="Formula" />
      <xsd:element name="encodedDescription" type="xsd:base64Binary" />
      <xsd:element name="variance" type="DeprecatedVariance"
        deprecated="true" deprecatedReason="Return Swap model should not be used for Variance
        Swaps, use the Variance Swap Product"/>
    </xsd:choice>
    <xsd:element name="calculationDates" type="AdjustableRelativeOrPeriodicDates" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

```

Complex Type: **LegId**

Super-types:	<a href="#">Token60</a> < <b>LegId</b> (by extension)
Sub-types:	None

Name	LegId
Used by (from the same schema document)	Complex Type <a href="#">LegIdentifier</a>
Abstract	no
Documentation	Leg identity.

XML Instance Representation

```
<...  
  legIdScheme=" xsd:anyURI [1]">  
    Token60  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LegId">  
  <xsd:simpleContent>  
    <xsd:extension base=" Token60 ">  
      <xsd:attribute name="legIdScheme" type=" xsd:anyURI " use="required"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **LegIdentifier**

Super-types:	None
Sub-types:	None

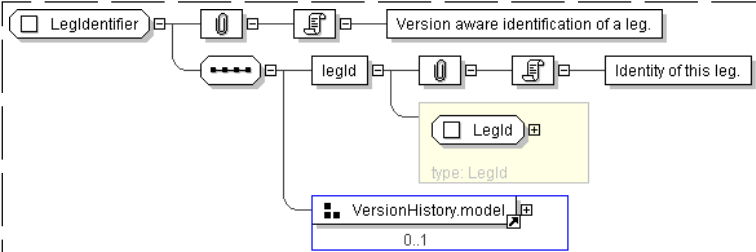
Name	LegIdentifier
Used by (from the same schema document)	Complex Type <a href="#">DirectionalLeg</a>
Abstract	no
Documentation	Version aware identification of a leg.

XML Instance Representation

```
<...>  
  <legId> LegId </legId> [1]  
    'Identity of this leg.'  
  </...>  
  <...>  
    Start Group: VersionHistory.model [0..1]  
      <version> xsd:nonNegativeInteger </version> [1]  
        'The version number'  
      </...>  
      <effectiveDate> IdentifiedDate </effectiveDate> [0..1]  
        'Optionally it is possible to specify a version effective date when a versionId is supplied.'  
      </...>  
    End Group: VersionHistory.model  
  </...>
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="LegIdentifier">
  <xsd:sequence>
    <xsd:element name="legId" type="LegId" />
    <xsd:group ref="VersionHistory.model" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: MakeWholeProvisions

Super-types:	None
Sub-types:	None

Name	MakeWholeProvisions
Abstract	no
Documentation	A type to hold early exercise provisions.

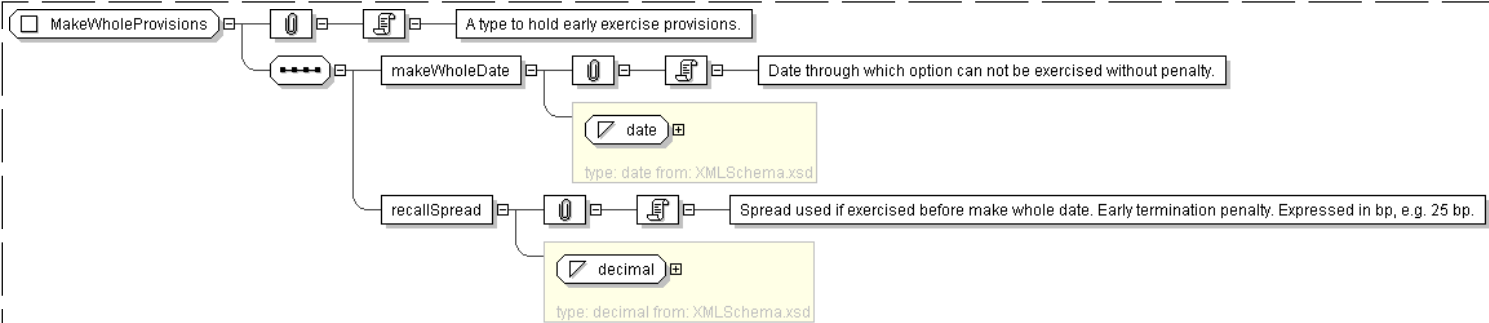
XML Instance Representation

```
<...>
  <makeWholeDate> xsd:date </makeWholeDate> [1]
  'Date through which option can not be exercised without penalty.'

  <recallSpread> xsd:decimal </recallSpread> [1]
  'Spread used if exercised before make whole date. Early termination penalty. Expressed in bp,
  e.g. 25 bp.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MakeWholeProvisions">
  <xsd:sequence>
```



Complex Type: **NettedSwapBase**

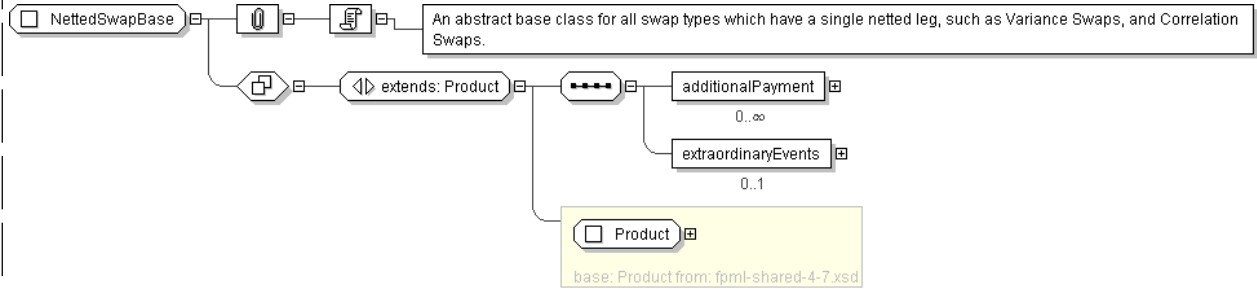
Super-types:	<a href="#">Product</a> < <b>NettedSwapBase</b> (by extension)
Sub-types:	None

Name	NettedSwapBase
Abstract	yes
Documentation	An abstract base class for all swap types which have a single netted leg, such as Variance Swaps, and Correlation Swaps.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <productType> ProductType </productType> [0..*]  
    'A classification of the type of product. FpML defines a simple product categorization using  
    a coding scheme.'  
  
    <productId> ProductId </productId> [0..*]  
    'A product reference identifier allocated by a party. FpML does not define the domain  
    values associated with this element. Note that the domain values for this element are  
    not strictly an enumerated list.'  
  
    <additionalPayment> ClassifiedPayment </additionalPayment> [0..*]  
    'Specifies additional payment(s) between the principal parties to the netted swap.'  
  
    <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]  
    'Where the underlying is shares, specifies events affecting the issuer of those shares that  
    may require the terms of the transaction to be adjusted.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NettedSwapBase" abstract="true">  
  <xsd:complexContent>  
    <xsd:extension base=" Product " />  
    <xsd:sequence>  
      <xsd:element name="additionalPayment" type=" ClassifiedPayment "  
        minOccurs="0" maxOccurs="unbounded" />  
      <xsd:element name="extraordinaryEvents" type=" ExtraordinaryEvents " minOccurs="0" />  
    </xsd:sequence>  
  </xsd:extension>  
</xsd:complexContent>  
</xsd:complexType>
```

Complex Type: OptionFeatures

Super-types:	None
Sub-types:	None
Name	OptionFeatures
Used by (from the same schema document)	Model Group <a href="#">Feature.model</a>
Abstract	no
Documentation	A type for defining option features.

XML Instance Representation

```
<...>
<asian> Asian </asian> [0..1]
'An option where and average price is taken on valuation.'

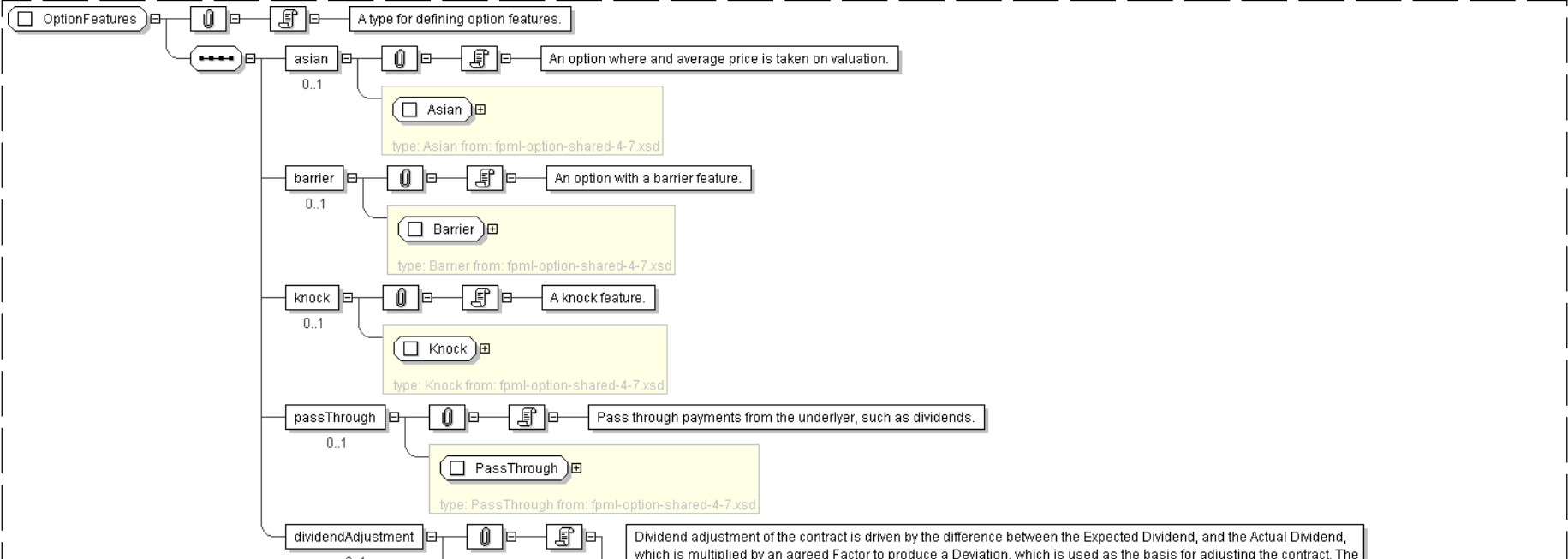
<barrier> Barrier </barrier> [0..1]
'An option with a barrier feature.'

<knock> Knock </knock> [0..1]
'A knock feature.'

<passThrough> PassThrough </passThrough> [0..1]
'Pass through payments from the underlying, such as dividends.'

<dividendAdjustment> DividendAdjustment </dividendAdjustment> [0..1]
'Dividend adjustment of the contract is driven by the difference between the Expected Dividend, and the Actual Dividend, which is multiplied by an agreed Factor to produce a Deviation, which is used as the basis for adjusting the contract. The parties acknowledge that in determining the Call Strike Price of the Transaction the parties have assumed that the Dividend scheduled to be paid by the Issuer to holders of record of the Shares, in the period set out in Column headed Relevant Period will equal per Share the amount stated in respect of such Relevant Period.'
```

Diagram



U..1

parties acknowledge that in determining the Call Strike Price of the Transaction the parties have assumed that the Dividend scheduled to be paid by the Issuer to holders of record of the Shares, in the period set out in Column headed Relevant Period will equal per Share the amount stated in respect of such Relevant Period.

DividendAdjustment

type: DividendAdjustment

Schema Component Representation

```
<xsd:complexType name="OptionFeatures">
  <xsd:sequence>
    <xsd:element name="asian" type="Asian" minOccurs="0"/>
    <xsd:element name="barrier" type="Barrier" minOccurs="0"/>
    <xsd:element name="knock" type="Knock" minOccurs="0"/>
    <xsd:element name="passThrough" type="PassThrough" minOccurs="0"/>
    <xsd:element name="dividendAdjustment" type="DividendAdjustment" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: PrincipalExchangeAmount

Super-types:	None
Sub-types:	None

Name	PrincipalExchangeAmount
Used by (from the same schema document)	Complex Type <a href="#">PrincipalExchangeDescriptions</a>
Abstract	no
Documentation	Specifies the principal exchange amount, either by explicitly defining it, or by point to an amount defined somewhere else in the swap document.

XML Instance Representation

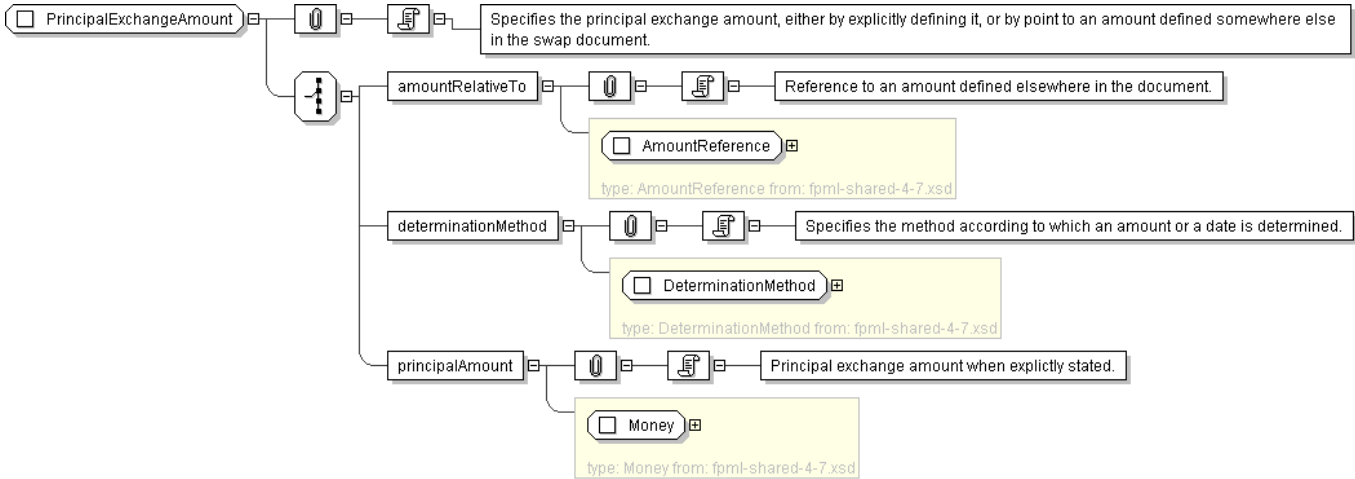
```
<...>
Start Choice [1]
  <amountRelativeTo> AmountReference </amountRelativeTo> [1]
  'Reference to an amount defined elsewhere in the document.'

  <determinationMethod> DeterminationMethod </determinationMethod> [1]
  'Specifies the method according to which an amount or a date is determined.'

  <principalAmount> Money </principalAmount> [1]
  'Principal exchange amount when explicitly stated.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrincipalExchangeAmount">
  <xsd:choice>
    <xsd:element name="amountRelativeTo" type=" AmountReference " />
    <xsd:element name="determinationMethod" type=" DeterminationMethod " />
    <xsd:element name="principalAmount" type=" Money " />
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: **PrincipalExchangeDescriptions**

Super-types:	None
Sub-types:	None

Name	PrincipalExchangeDescriptions
Used by (from the same schema document)	Complex Type <a href="#">PrincipalExchangeFeatures</a>
Abstract	no
Documentation	Specifies each of the characteristics of the principal exchange cashflows, in terms of paying/receiving counterparties, amounts and dates.

XML Instance Representation

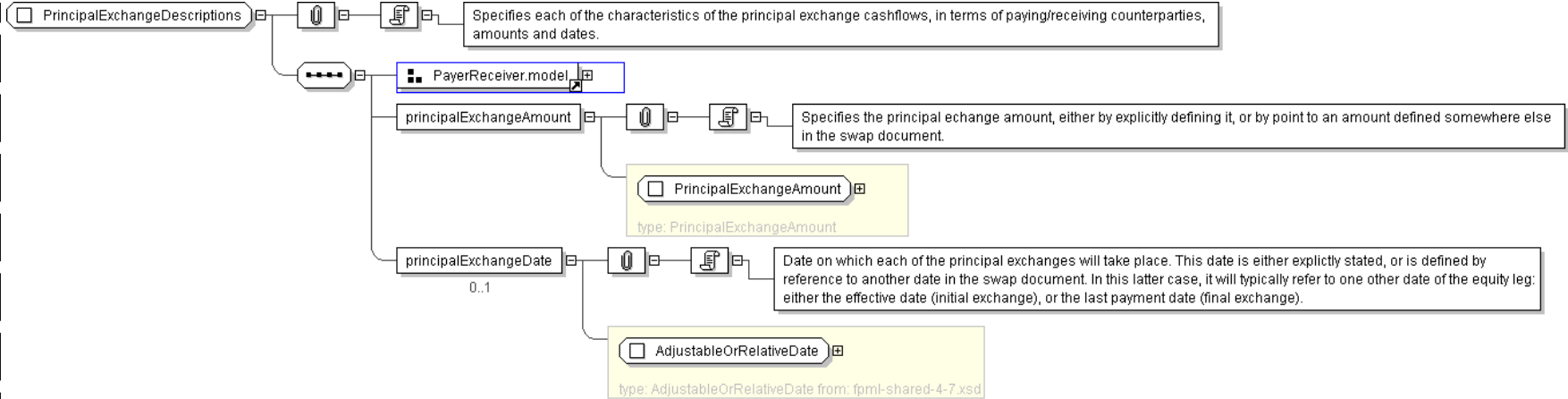
```
<...>
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <principalExchangeAmount> PrincipalExchangeAmount </principalExchangeAmount> [1]
  'Specifies the principal exchange amount, either by explicitly defining it, or by point to
  an amount defined somewhere else in the swap document.'

  <principalExchangeDate> AdjustableOrRelativeDate </principalExchangeDate> [0..1]
  'Date on which each of the principal exchanges will take place. This date is either
  explicitly stated, or is defined by reference to another date in the swap document. In
  this latter case, it will typically refer to one other date of the equity leg: either
  the effective date (initial exchange), or the last payment date (final exchange).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrincipalExchangeDescriptions">
  <xsd:sequence>
    <xsd:group ref=" PayerReceiver.model " />
    <xsd:element name="principalExchangeAmount" type=" PrincipalExchangeAmount " />
    <xsd:element name="principalExchangeDate" type=" AdjustableOrRelativeDate " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **PrincipalExchangeFeatures**

Super-types:	None
Sub-types:	None
Name	PrincipalExchangeFeatures
Used by (from the same schema document)	Complex Type <a href="#">ReturnSwapBase</a>
Abstract	no
Documentation	A type describing the principal exchange features of the equity swap.

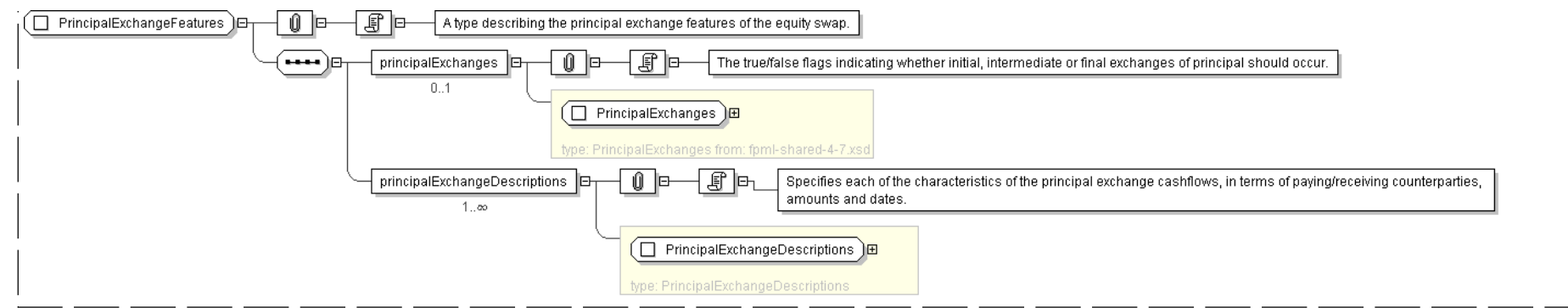
XML Instance Representation

```
<...>
<principalExchanges> PrincipalExchanges </principalExchanges> [0..1]
  'The true/false flags indicating whether initial, intermediate or final exchanges of
  principal should occur.'

<principalExchangeDescriptions> PrincipalExchangeDescriptions </
principalExchangeDescriptions> [1..*]
  'Specifies each of the characteristics of the principal exchange cashflows, in terms of
  paying/receiving counterparties, amounts and dates.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrincipalExchangeFeatures">
  <xsd:sequence>
    <xsd:element name="principalExchanges" type="PrincipalExchanges" minOccurs="0"/>
    <xsd:element name="principalExchangeDescriptions" type="PrincipalExchangeDescriptions"
      " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: Representations

Super-types:	None
Sub-types:	None

Name	Representations
Used by (from the same schema document)	Complex Type <a href="#">ExtraordinaryEvents</a>
Abstract	no
Documentation	A type for defining ISDA 2002 Equity Derivative Representations.

XML Instance Representation

```
<...>
  <nonReliance> xsd:boolean </nonReliance> [1]
  'If true, then non reliance is applicable.'

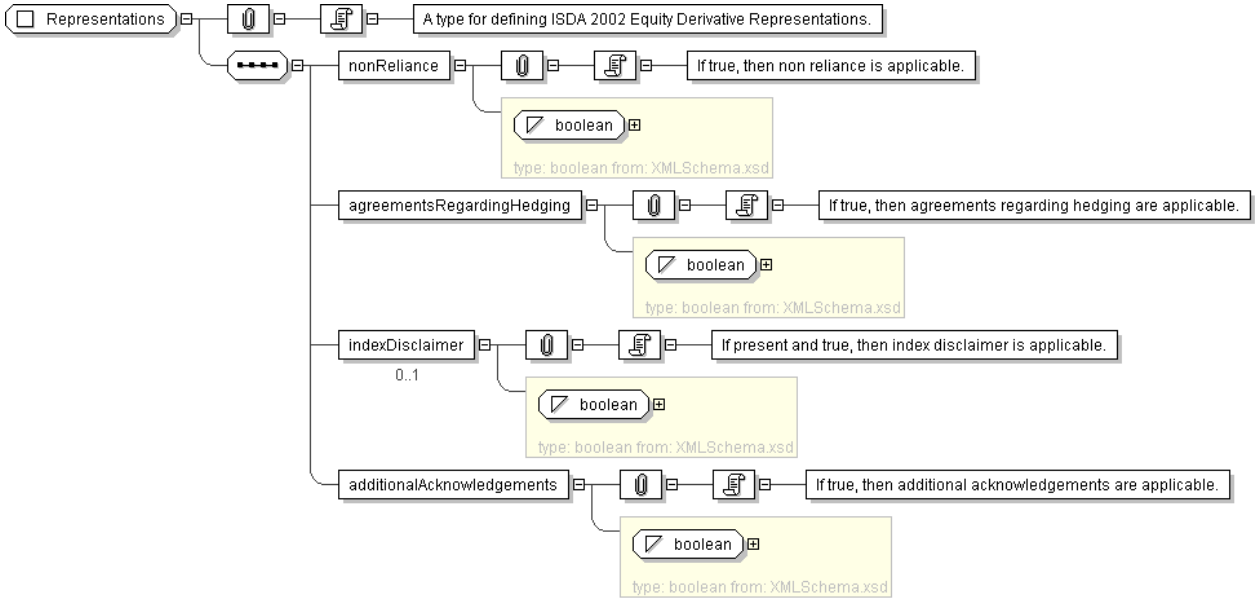
  <agreementsRegardingHedging> xsd:boolean </agreementsRegardingHedging> [1]
  'If true, then agreements regarding hedging are applicable.'

  <indexDisclaimer> xsd:boolean </indexDisclaimer> [0..1]
  'If present and true, then index disclaimer is applicable.'

  <additionalAcknowledgements> xsd:boolean </additionalAcknowledgements> [1]
  'If true, then additional acknowledgements are applicable.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Representations">
  <xsd:sequence>
    <xsd:element name="nonReliance" type="xsd:boolean"/>
    <xsd:element name="agreementsRegardingHedging" type="xsd:boolean"/>
    <xsd:element name="indexDisclaimer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="additionalAcknowledgements" type="xsd:boolean"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: Return

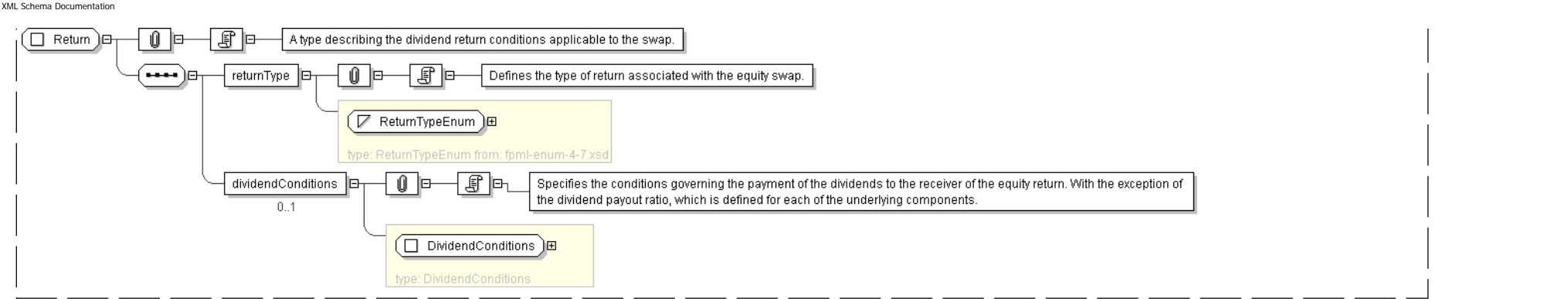
Super-types:	None
Sub-types:	None
Name	Return
Used by (from the same schema document)	Complex Type <a href="#">ReturnLeg</a>
Abstract	no
Documentation	A type describing the dividend return conditions applicable to the swap.

XML Instance Representation

```
<...>
<returnType> ReturnTypeEnum </returnType> [1]
'Defines the type of return associated with the equity swap.'

<dividendConditions> DividendConditions </dividendConditions> [0..1]
'Specifies the conditions governing the payment of the dividends to the receiver of the equity return. With the exception of the dividend payout ratio, which is defined for each of the underlying components.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Return">
  <xsd:sequence>
    <xsd:element name="returnType" type=" ReturnTypeEnum " />
    <xsd:element name="dividendConditions" type=" DividendConditions " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReturnLeg

Super-types:	<a href="#">Leg</a> < <a href="#">ReturnSwapLeg</a> (by extension) < <a href="#">ReturnSwapLegUnderlier</a> (by extension) < <b>ReturnLeg</b> (by extension)
Sub-types:	None
Name	ReturnLeg
Used by (from the same schema document)	Element <a href="#">returnLeg</a>
Abstract	no
Documentation	A type describing the return leg of a return type swap.

XML Instance Representation

```
<...
legIdentifier=" xsd:ID [0..1]
'DEPRECATED This element will be renamed to id in the next major FpML version.'

">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentFrequency> Frequency </paymentFrequency> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Frequency at which this leg pays.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically point to the effective date of the other leg of the swap.'

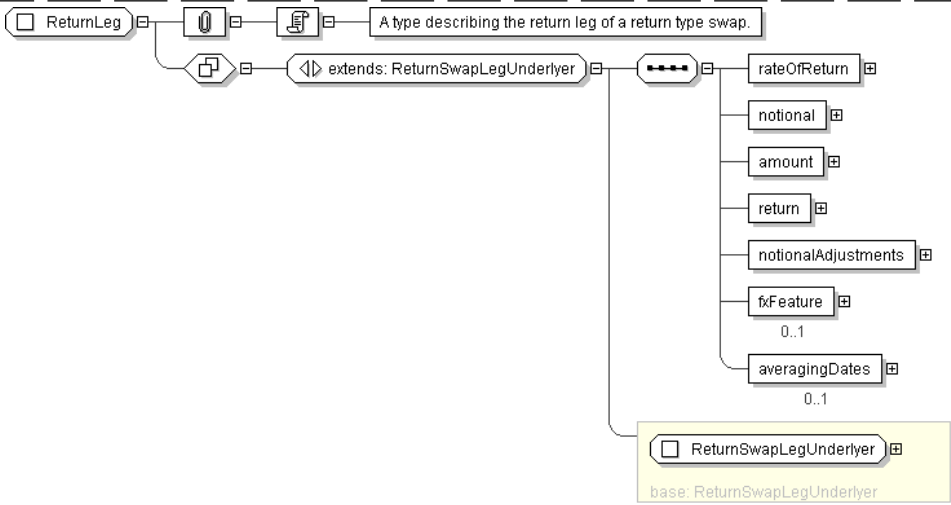
  <terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a date specified somewhere else in the document (through the relativeDate component), this element will typically point to the termination date of the other leg of the swap.'

  <strikeDate> AdjustableOrRelativeDate </strikeDate> [0..1]
  'Specifies the strike date of this leg of the swap, used for forward starting swaps. When defined in relation to a date specified somewhere else in the document (through
```



<code>the <code>relativeDate</code> component), this element will typically by relative to the trade date of the swap.'</code>
<code>&lt;underlyer&gt; <a href="#">Underlyer</a> &lt;/underlyer&gt; [1]</code> 'Specifies the underlying component of the leg, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'
<code>&lt;rateOfReturn&gt; <a href="#">ReturnLegValuation</a> &lt;/rateOfReturn&gt; [1]</code> 'Element named <code>"valuation"</code> in versions prior to <code>FpML 4.2 Second Working Draft</code> . Specifies the terms of the initial price of the return type swap and of the subsequent valuations of the underlyer.'
<code>&lt;notional&gt; <a href="#">ReturnSwapNotional</a> &lt;/notional&gt; [1]</code> 'Specifies the notional of a return type swap. When used in the equity leg, the definition will typically combine the actual amount (using the notional component defined by the <code>FpML</code> industry group) and the determination method. When used in the interest leg, the definition will typically point to the definition of the equity leg.'
<code>&lt;amount&gt; <a href="#">ReturnSwapAmount</a> &lt;/amount&gt; [1]</code> 'Element named <code>"equityAmount"</code> in versions prior to <code>FpML 4.2 Second Working Draft</code> . Specifies, in relation to each Payment Date, the amount to which the Payment Date relates. For equity swaps this element is equivalent to the <code>Equity Amount</code> term as defined in the <code>ISDA 2002 Equity Derivatives Definitions</code> .'
<code>&lt;return&gt; <a href="#">Return</a> &lt;/return&gt; [1]</code> 'Specifies the conditions under which dividend affecting the underlyer will be paid to the receiver of the amounts.'
<code>&lt;notionalAdjustments&gt; <a href="#">NotionalAdjustmentEnum</a> &lt;/notionalAdjustments&gt; [1]</code> 'Specifies the conditions that govern the adjustment to the number of units of the equity swap.'
<code>&lt;fxFeature&gt; <a href="#">FxFeature</a> &lt;/fxFeature&gt; [0..1]</code> 'A quanto or composite FX feature.'
<code>&lt;averagingDates&gt; <a href="#">AveragingPeriod</a> &lt;/averagingDates&gt; [0..1]</code> 'Averaging Dates used in the swap.'
<code>&lt;/...&gt;</code>

Diagram



Schema Component Representation

<code>&lt;xsd:complexType name="ReturnLeg"&gt;</code>
<code>&lt;xsd:complexContent&gt;</code>
<code>&lt;xsd:extension base="ReturnSwapLegUnderlyer" /&gt;</code>

Complex Type: ReturnLegValuation

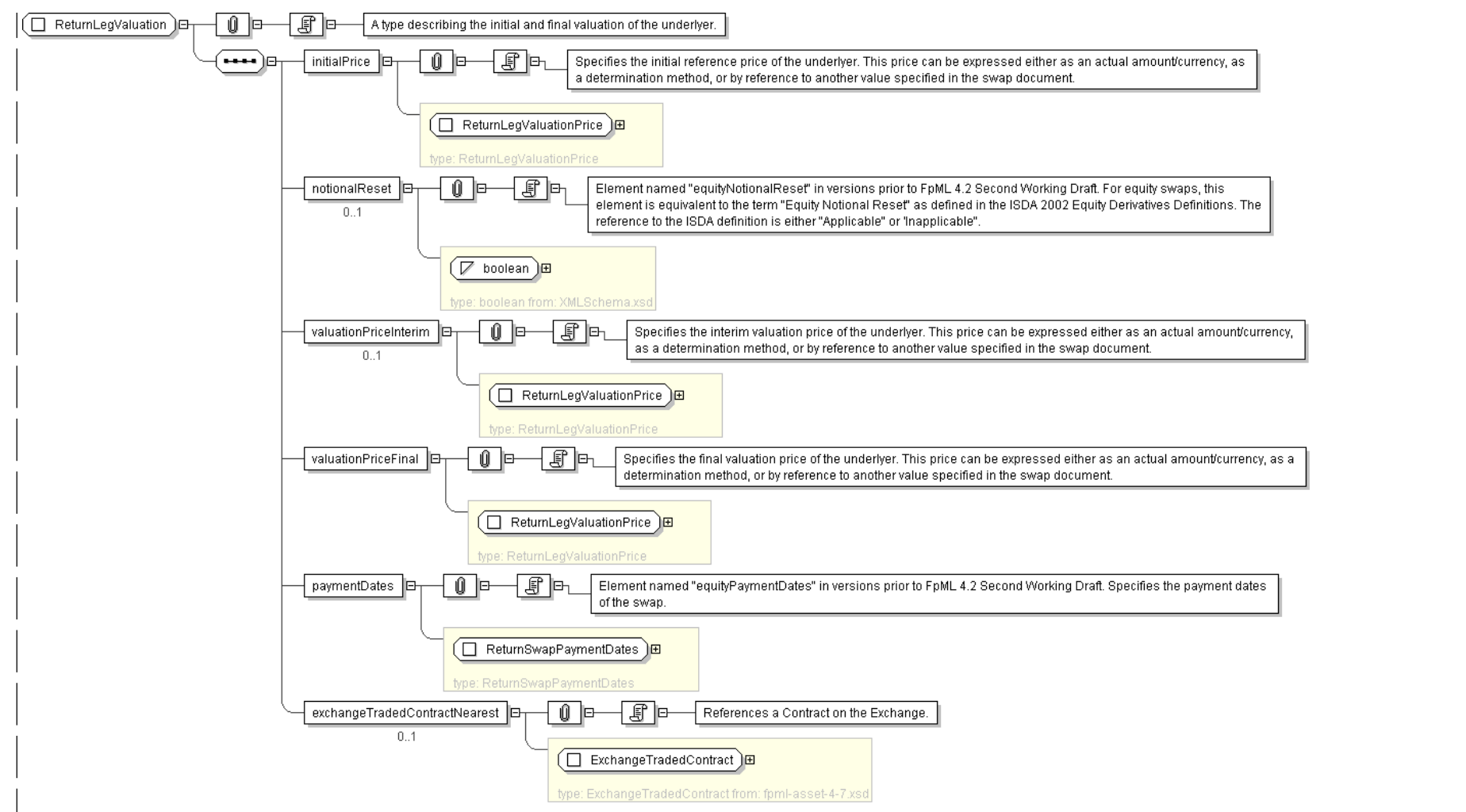
Super-types:	None
Sub-types:	None

Name	ReturnLegValuation
Used by (from the same schema document)	Complex Type <a href="#">ReturnLeg</a>
Abstract	no
Documentation	A type describing the initial and final valuation of the underlying.

XML Instance Representation

<...>
<initialPrice> <a href="#">ReturnLegValuationPrice</a> </initialPrice> [1]
'Specifies the initial reference price of the underlying. This price can be expressed either as an actual amount/currency, as a determination method, or by reference to another value specified in the swap document.'
<notionalReset> <a href="#">xsd:boolean</a> </notionalReset> [0..1]
'Element named \"equityNotionalReset\" in versions prior to FpML 4.2 Second Working Draft. For equity swaps, this element is equivalent to the term \"Equity Notional Reset\" as defined in the ISDA 2002 Equity Derivatives Definitions. The reference to the ISDA definition is either \"Applicable\" or \"Inapplicable\".'
<valuationPriceInterim> <a href="#">ReturnLegValuationPrice</a> </valuationPriceInterim> [0..1]
'Specifies the interim valuation price of the underlying. This price can be expressed either as an actual amount/currency, as a determination method, or by reference to another value specified in the swap document.'
<valuationPriceFinal> <a href="#">ReturnLegValuationPrice</a> </valuationPriceFinal> [1]
'Specifies the final valuation price of the underlying. This price can be expressed either as an actual amount/currency, as a determination method, or by reference to another value specified in the swap document.'
<paymentDates> <a href="#">ReturnSwapPaymentDates</a> </paymentDates> [1]
'Element named \"equityPaymentDates\" in versions prior to FpML 4.2 Second Working Draft. Specifies the payment dates of the swap.'
<exchangeTradedContractNearest> <a href="#">ExchangeTradedContract</a> </exchangeTradedContractNearest> [0..1]
'References a Contract on the Exchange.'
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnLegValuation">
  <xsd:sequence>
    <xsd:element name="initialPrice" type="ReturnLegValuationPrice"/>
    <xsd:element name="notionalReset" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="valuationPriceInterim" type="ReturnLegValuationPrice" minOccurs="0"/>
    <xsd:element name="valuationPriceFinal" type="ReturnLegValuationPrice"/>
    <xsd:element name="paymentDates" type="ReturnSwapPaymentDates"/>
    <xsd:element name="exchangeTradedContractNearest" type="ExchangeTradedContract"
      minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReturnLegValuationPrice

Super-types:	<a href="#">Price</a> < <b>ReturnLegValuationPrice</b> (by extension)
Sub-types:	None

Name	ReturnLegValuationPrice
------	-------------------------

Used by (from the same schema document)	Complex Type <a href="#">ReturnLegValuation</a> , Complex Type <a href="#">ReturnLegValuation</a> , Complex Type <a href="#">ReturnLegValuation</a>
Abstract	no

XML Instance Representation

```
<...>
  <commission> Commission </commission> [0..1]
  'This optional component specifies the commission to be charged for executing the
  hedge transactions.'

  Start Choice [1]
    <determinationMethod> DeterminationMethod </determinationMethod> [1]
    'Specifies the method according to which an amount or a date is determined.'

  Start Group: EquityPrice.model [0..1]
    <grossPrice> ActualPrice </grossPrice> [0..1]
    'Specifies the price of the underlyer, before commissions.'

    <netPrice> ActualPrice </netPrice> [1]
    'Specifies the price of the underlyer, net of commissions.'

    <accruedInterestPrice> xsd:decimal </accruedInterestPrice> [0..1]
    'Specifies the accrued interest that are part of the dirty price in the case of a fixed
    income security or a convertible bond. Expressed in percentage of the notional.'

    <fxConversion> FxConversion </fxConversion> [0..1]
    'Specifies the currency conversion rate that applies to an amount. This rate can either
    be defined elsewhere in the document (case of a quanto swap), or explicitly described
    through this component.'

  End Group: EquityPrice.model
    <amountRelativeTo> AmountReference </amountRelativeTo> [1]
    'The href attribute value will be a pointer style reference to the element or
    component elsewhere in the document where the anchor amount is defined.'

    <grossPrice> ActualPrice </grossPrice> [0..1]
    'Specifies the price of the underlyer, before commissions.'

    <netPrice> ActualPrice </netPrice> [1]
    'Specifies the price of the underlyer, net of commissions.'

    <accruedInterestPrice> xsd:decimal </accruedInterestPrice> [0..1]
    'Specifies the accrued interest that are part of the dirty price in the case of a fixed
    income security or a convertible bond. Expressed in percentage of the notional.'

    <fxConversion> FxConversion </fxConversion> [0..1]
    'Specifies the currency conversion rate that applies to an amount. This rate can either
    be defined elsewhere in the document (case of a quanto swap), or explicitly described
    through this component.'

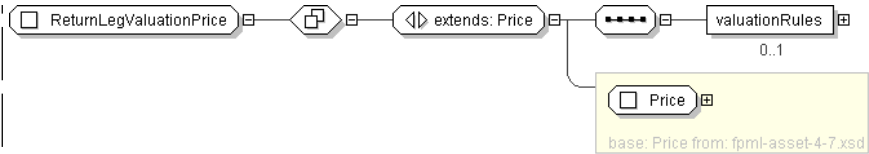
  End Choice
    <cleanNetPrice> xsd:decimal </cleanNetPrice> [0..1]
    'The net price excluding accrued interest. The \"Dirty Price\" for bonds is put in
    the \"netPrice\" element, which includes accrued interest. Thus netPrice - cleanNetPrice
    = accruedInterest. The currency and price expression for this field are the same as those
    for the (dirty) netPrice.'

    <quotationCharacteristics> QuotationCharacteristics </quotationCharacteristics> [0..1]
    'Allows information about how the price was quoted to be provided.'

    <valuationRules> EquityValuation </valuationRules> [0..1]
    'Element named \"equityValuation\" in versions prior to FpML 4.2 Second Working Draft.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnLegValuationPrice">
  <xsd:complexContent>
    <xsd:extension base="Price">
      <xsd:sequence>
        <xsd:element name="valuationRules" type="EquityValuation" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ReturnSwap

Super-types:	<a href="#">Product</a> < <a href="#">ReturnSwapBase</a> (by extension) < <b>ReturnSwap</b> (by extension)
Sub-types:	None

Name	ReturnSwap
Used by (from the same schema document)	Element <a href="#">returnSwap</a>
Abstract	no
Documentation	A type describing return swaps including equity swaps (long form), total return swaps, and variance swaps.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  Start Group: BuyerSeller.model [0..1]
  'BuyerSeller.model has been included as an optional child of ReturnSwapBase to support
  the situation where an implementor wishes to indicate who has manufactured the Swap
  through representing them as the Seller. It may be removed in future major revisions.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  End Group: BuyerSeller.model

  <returnSwapLeg> ... </returnSwapLeg> [1..*]
  <principalExchangeFeatures> PrincipalExchangeFeatures </principalExchangeFeatures> [0..1]
  'This is used to document a Fully Funded Return Swap.'

  <additionalPayment> ReturnSwapAdditionalPayment </additionalPayment> [0..*]
  'Specifies additional payment(s) between the principal parties to the trade. This
  component extends some of the features of the additionalPayment component developed by the
```

*FpML industry group. Appropriate discussions will determine whether it would be appropriate to extend the shared component in order to meet the further requirements of equity swaps.'*

```
<earlyTermination> ReturnSwapEarlyTermination </earlyTermination> [0..*]
```

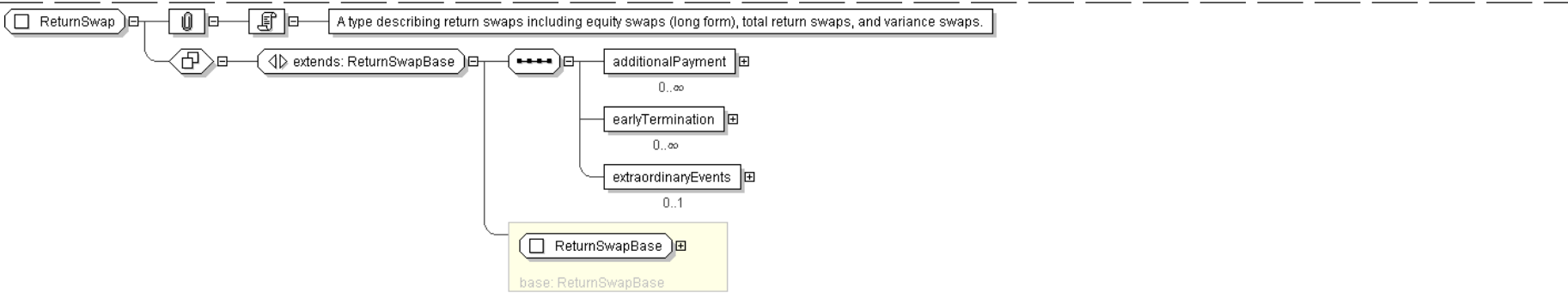
*'Specifies, for one or for both the parties to the trade, the date from which it can early terminate it.'*

```
<extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
```

*'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'*

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwap">
  <xsd:complexContent>
    <xsd:extension base="ReturnSwapBase">
      <xsd:sequence>
        <xsd:element name="additionalPayment" type="ReturnSwapAdditionalPayment"
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="earlyTermination" type="ReturnSwapEarlyTermination"
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="extraordinaryEvents" type="ExtraordinaryEvents" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **ReturnSwapAdditionalPayment**

Super-types:	<a href="#">PaymentBase</a> < <b>ReturnSwapAdditionalPayment</b> (by extension)
Sub-types:	None

Name	ReturnSwapAdditionalPayment
Used by (from the same schema document)	Complex Type <a href="#">ReturnSwap</a>
Abstract	no
Documentation	A type describing the additional payment(s) between the principal parties to the trade. This component extends some of the features of the additionalPayment component previously developed in FpML. Appropriate discussions will determine whether it would be appropriate to extend the shared component in order to meet the further requirements of equity swaps.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
```

'A reference to the party that receives the payments corresponding to this structure.'

```
<additionalPaymentAmount> AdditionalPaymentAmount </additionalPaymentAmount> [1]
```

'Specifies the amount of the fee along with, when applicable, the formula that supports its determination.'

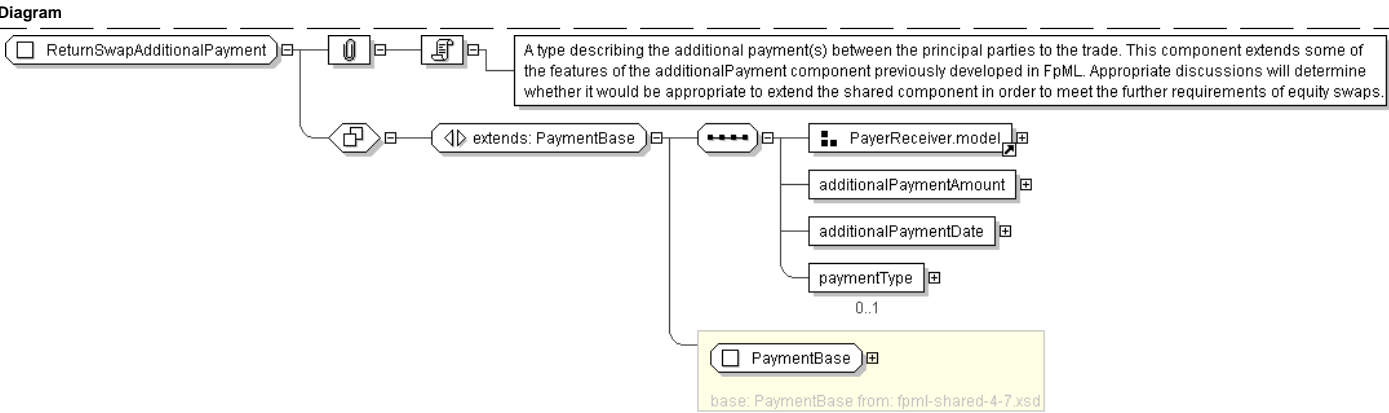
```
<additionalPaymentDate> AdjustableOrRelativeDate </additionalPaymentDate> [1]
```

'Specifies the value date of the fee payment/receipt.'

```
<paymentType> PaymentType </paymentType> [0..1]
```

'Classification of the payment.'

```
</...>
```



Schema Component Representation

```
<xsd:complexType name="ReturnSwapAdditionalPayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:group ref="PayerReceiver.model"/>
        <xsd:element name="additionalPaymentAmount" type="AdditionalPaymentAmount"/>
        <xsd:element name="additionalPaymentDate" type="AdjustableOrRelativeDate"/>
        <xsd:element name="paymentType" type="PaymentType" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: ReturnSwapAmount

Super-types:	<a href="#">LegAmount</a> < ReturnSwapAmount (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DeprecatedVarianceAmount</a> (by extension)</li></ul>
Name	ReturnSwapAmount
Used by (from the same schema document)	Complex Type <a href="#">ReturnLeg</a>
Abstract	no
Documentation	Specifies, in relation to each Payment Date, the amount to which the Payment Date relates. For Equity Swaps this element is equivalent to the Equity Amount term as defined in the ISDA 2002 Equity Derivatives Definitions.

XML Instance Representation

```
<...>
Start Group: CurrencyAndDeterminationMethod.model [0..1]
Start Choice [1]
  <currency> Currency </currency> [1]
</...>
```

'The currency in which an amount is denominated.'

<determinationMethod> DeterminationMethod </determinationMethod> [1]

'Specifies the method according to which an amount or a date is determined.'

<currencyReference> IdentifiedCurrencyReference </currencyReference> [1]

'Reference to a currency defined elsewhere in the document'

End Choice

End Group: CurrencyAndDeterminationMethod.model

<paymentCurrency> PaymentCurrency </paymentCurrency> [0..1]

'DEPRECATED. Currency in which the payment relating to the leg amount (equity amount or interest amount) or the dividend will be denominated.'

Start Choice [1]

<referenceAmount> ReferenceAmount </referenceAmount> [1]

'Specifies the reference Amount when this term either corresponds to the standard ISDA Definition (either the 2002 Equity Definition for the Equity Amount, or the 2000 Definition for the Interest Amount), or points to a term defined elsewhere in the swap document.'

<formula> Formula </formula> [1]

'Specifies a formula, with its description and components.'

<encodedDescription> xsd:base64Binary </encodedDescription> [1]

'Description of the leg amount when represented through an encoded image.'

<variance> DeprecatedVariance </variance> [1]

'DEPRECATED This element will be removed in the next FpML major version. Return Swap model should not be used for Variance Swaps, use the Variance Swap Product. Specifies Variance for Variance Leg.'

End Choice

<calculationDates> AdjustableRelativeOrPeriodicDates </calculationDates> [0..1]

'Specifies the date on which a calculation or an observation will be performed for the purpose of defining the Equity Amount, and in accordance to the definition terms of this latter.'

<cashSettlement> xsd:boolean </cashSettlement> [1]

'If true, then cash settlement is applicable.'

<optionsExchangeDividends> xsd:boolean </optionsExchangeDividends> [0..1]

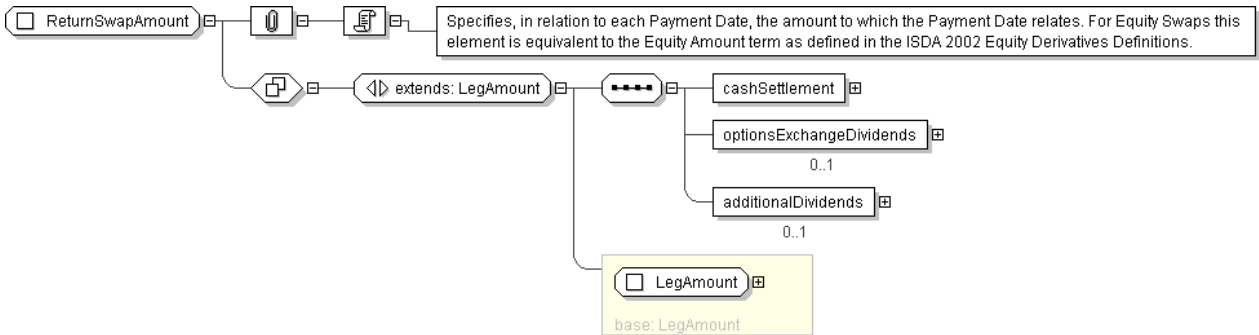
'If present and true, then options exchange dividends are applicable.'

<additionalDividends> xsd:boolean </additionalDividends> [0..1]

'If present and true, then additional dividends are applicable.'

</...>

Diagram



Schema Component Representation



```
<xsd:complexType name="ReturnSwapAmount">
  <xsd:complexContent>
    <xsd:extension base="LegAmount" >
      <xsd:sequence>
        <xsd:element name="cashSettlement" type="xsd:boolean" />
        <xsd:element name="optionsExchangeDividends" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="additionalDividends" type="xsd:boolean" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **ReturnSwapBase**

Super-types:	<a href="#">Product</a> < <b>ReturnSwapBase</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">ReturnSwap</a> (by extension)</li></ul>

Name	ReturnSwapBase
Abstract	yes
Documentation	A type describing the components that are common for return type swaps, including short and long form equity swaps representations.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]

  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

Start Group: BuyerSeller.model [0..1]
'BuyerSeller.model has been included as an optional child of ReturnSwapBase to support
the situation where an implementor wishes to indicate who has manufactured the Swap
through representing them as the Seller. It may be removed in future major revisions.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

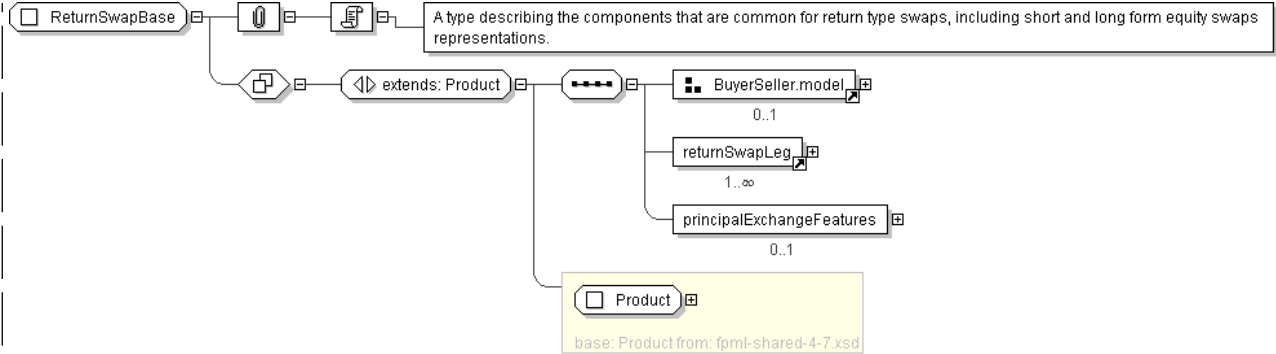
  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

End Group: BuyerSeller.model

  <returnSwapLeg> ... </returnSwapLeg> [1..*]
  <principalExchangeFeatures> PrincipalExchangeFeatures </principalExchangeFeatures> [0..1]
  'This is used to document a Fully Funded Return Swap.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwapBase" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="Product" />
    <xsd:sequence>
      <xsd:group ref="BuyerSeller.model" minOccurs="0"/>
      <xsd:element ref="returnSwapLeg" maxOccurs="unbounded"/>
      <xsd:element name="principalExchangeFeatures" type="PrincipalExchangeFeatures" minOccurs="0"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: ReturnSwapEarlyTermination

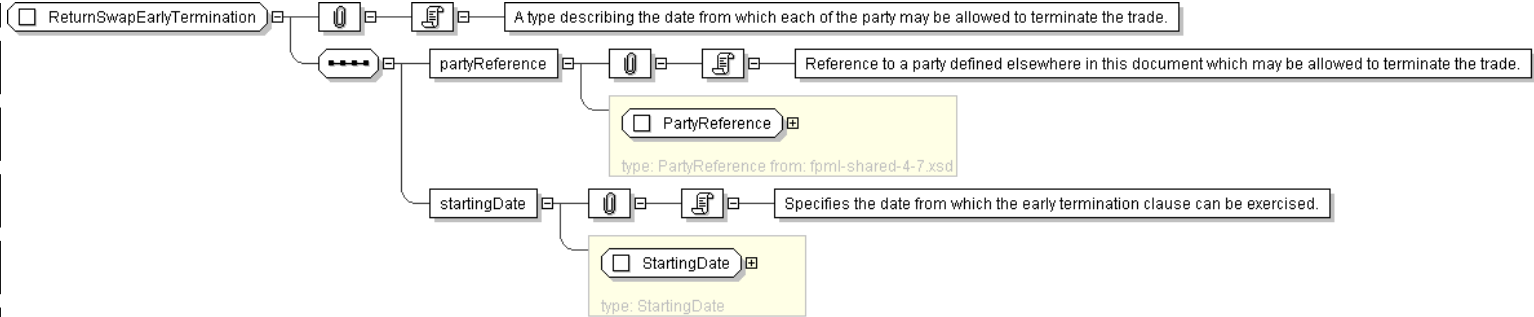
Super-types:	None
Sub-types:	None
Name	ReturnSwapEarlyTermination
Used by (from the same schema document)	Complex Type <a href="#">ReturnSwap</a>
Abstract	no
Documentation	A type describing the date from which each of the party may be allowed to terminate the trade.

XML Instance Representation

```
<...>
  <partyReference> PartyReference </partyReference> [1]
  'Reference to a party defined elsewhere in this document which may be allowed to terminate
  the trade.'

  <startingDate> StartingDate </startingDate> [1]
  'Specifies the date from which the early termination clause can be exercised.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwapEarlyTermination">
  <xsd:sequence>
    <xsd:element name="partyReference" type=" PartyReference " />
    <xsd:element name="startingDate" type=" StartingDate " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReturnSwapLeg

Super-types:	<a href="#">Leg</a> < <b>ReturnSwapLeg</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DeprecatedVarianceLeg</a> (by extension)</li><li><a href="#">InterestLeg</a> (by extension)</li><li><a href="#">ReturnSwapLegUnderlier</a> (by extension)<ul style="list-style-type: none"><li><a href="#">ReturnLeg</a> (by extension)</li></ul></li></ul>

Name	ReturnSwapLeg
Used by (from the same schema document)	Element <a href="#">returnSwapLeg</a>
Abstract	yes
Documentation	The abstract base class for all types of Return Swap Leg.

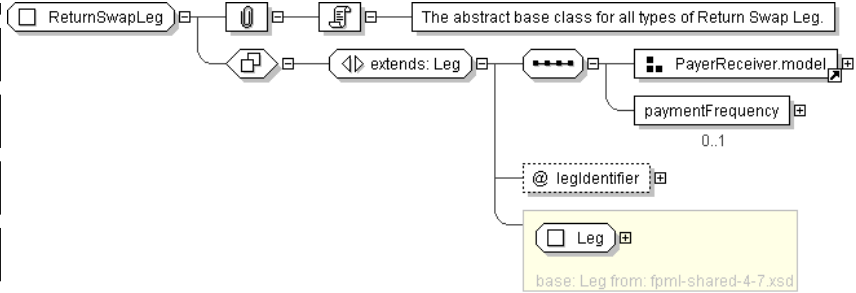
XML Instance Representation

```
<...
legIdentifier=" xsd:ID [0..1]
'DEPRECATED This element will be renamed to id in the next major FpML version.'
">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentFrequency> Frequency </paymentFrequency> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Frequency at
  which this leg pays.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwapLeg" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="Leg" />
    <xsd:sequence>
      <xsd:group ref="PayerReceiver.model" />
      <xsd:element name="paymentFrequency" type="Frequency" minOccurs="0"
        deprecated="true" deprecatedReason="Payment Frequency is controlled by the implementations
        of this abstract base class"/>
    </xsd:sequence>
    <xsd:attribute name="legIdentifier" type="xsd:ID" deprecated="true"
      deprecatedReason="All attributes of type=xsd:ID should have name=id following
      FpML Architecture"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ReturnSwapLegUnderlyer

Super-types:	<a href="#">Leg</a> < <a href="#">ReturnSwapLeg</a> (by extension) < <a href="#">ReturnSwapLegUnderlyer</a> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">ReturnLeg</a> (by extension)</li></ul>
Name	ReturnSwapLegUnderlyer
Abstract	yes
Documentation	A base class for all return leg types with an underlyer.

XML Instance Representation

```
<...
  legIdentifier="xsd:ID [0..1]
  'DEPRECATED This element will be renamed to id in the next major FpML version.'
">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentFrequency> Frequency </paymentFrequency> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Frequency at
  which this leg pays.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
```

this element will typically point to the termination date of the other leg of the swap.'

```
<strikeDate> AdjustableOrRelativeDate </strikeDate> [0..1]
```

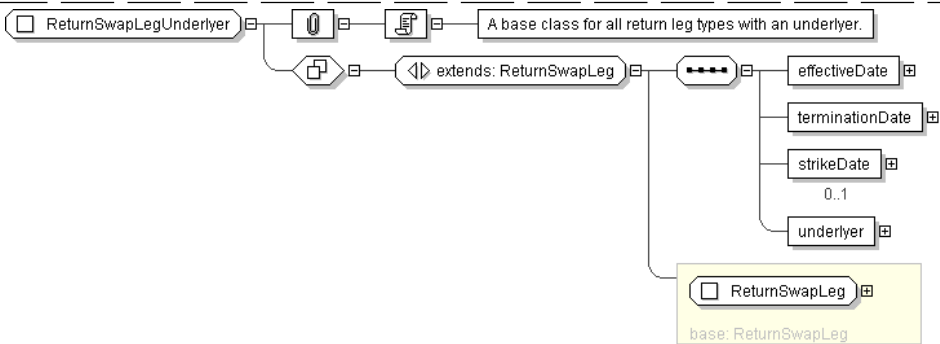
'Specifies the strike date of this leg of the swap, used for forward starting swaps. When defined in relation to a date specified somewhere else in the document (through the [relativeDate](#) component), this element will typically by relative to the trade date of the swap.'

```
<underlyer> Underlyer </underlyer> [1]
```

'Specifies the underlying component of the leg, which can be either one or many and consists in either equity, index or convertible bond component, or a combination of these.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwapLegUnderlyer" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="ReturnSwapLeg" />
    <xsd:sequence>
      <xsd:element name="effectiveDate" type="AdjustableOrRelativeDate" />
      <xsd:element name="terminationDate" type="AdjustableOrRelativeDate" />
      <xsd:element name="strikeDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
      <xsd:element name="underlyer" type="Underlyer" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

[top](#)

Complex Type: **ReturnSwapNotional**

Super-types:	None
Sub-types:	None

Name	ReturnSwapNotional
Used by (from the same schema document)	Complex Type <a href="#">InterestLeg</a> , Complex Type <a href="#">ReturnLeg</a>
Abstract	no
Documentation	Specifies the notional of return type swap. When used in the equity leg, the definition will typically combine the actual amount (using the notional component defined by the FpML industry group) and the determination method. When used in the interest leg, the definition will typically point to the definition of the equity leg.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <amountRelativeTo> AmountReference </amountRelativeTo> [1]
  'DEPRECATED This element will be removed in the next FpML major version. A reference to
  the return swap notional defined elsewhere in this document.'
```

```
<relativeNotionalAmount> ReturnSwapNotionalAmountReference </relativeNotionalAmount> [1]
```

'A reference to the return swap notional amount defined elsewhere in this document.'

```
<relativeDeterminationMethod> DeterminationMethodReference </relativeDeterminationMethod> [1]
```

'A reference to the return swap notional determination method defined elsewhere in this document.'

```
<determinationMethod> DeterminationMethod </determinationMethod> [1]
```

'Specifies the method according to which an amount or a date is determined.'

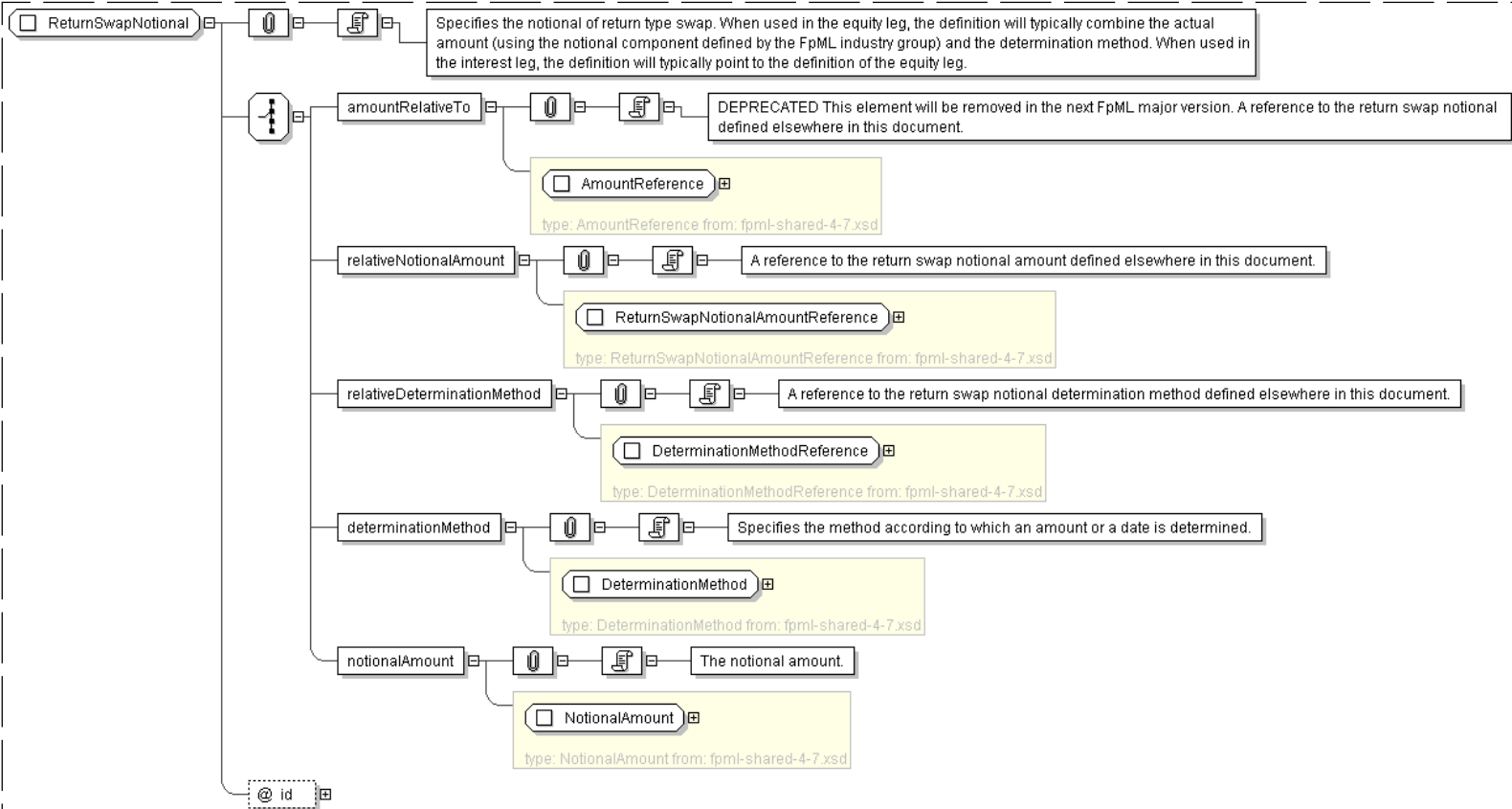
```
<notionalAmount> NotionalAmount </notionalAmount> [1]
```

'The notional amount.'

End Choice

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="ReturnSwapNotional">
  <xsd:choice>
    <xsd:element name="amountRelativeTo" type="AmountReference"
      deprecated="true" deprecatedReason="amountRelativeTo should not be used to the return
      swap notional, use the relativeNotionalAmount or relativeDeterminationMethod."/>
    <xsd:element name="relativeNotionalAmount" type="ReturnSwapNotionalAmountReference"/>
    <xsd:element name="relativeDeterminationMethod" type="DeterminationMethodReference"/>
    <xsd:element name="determinationMethod" type="DeterminationMethod"/>
    <xsd:element name="notionalAmount" type="NotionalAmount"/>
  </xsd:choice>
  <xsd:attribute name="id" type="ID" use="optional"/>
</xsd:complexType>
```

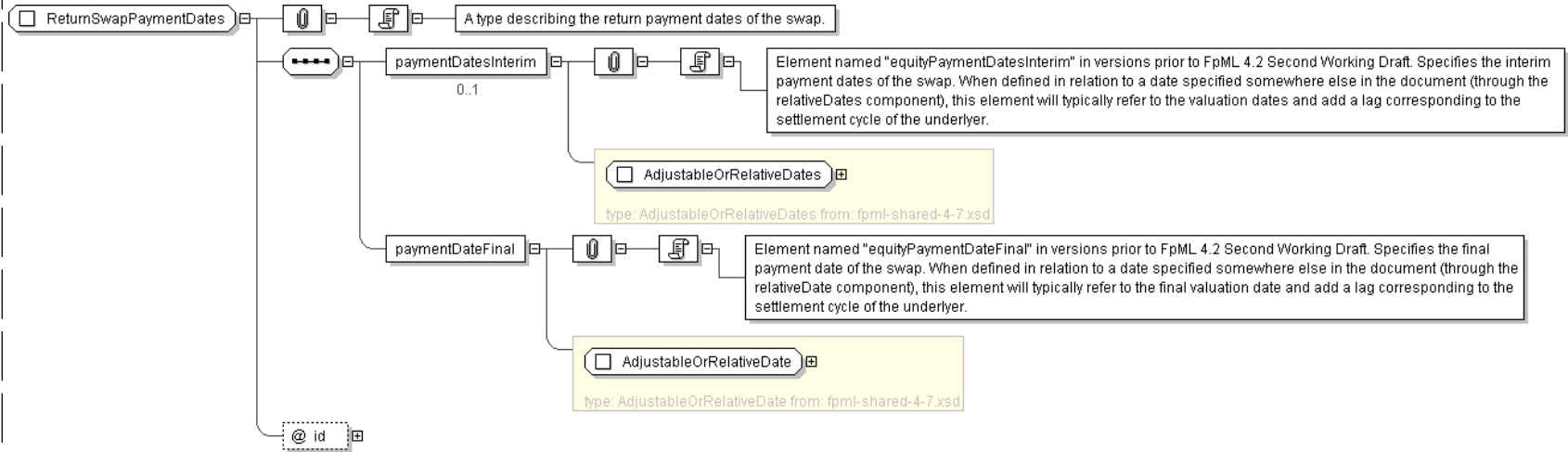
Complex Type: ReturnSwapPaymentDates

Super-types:	None
Sub-types:	None
Name	ReturnSwapPaymentDates
Used by (from the same schema document)	Complex Type <a href="#">ReturnLegValuation</a>
Abstract	no
Documentation	A type describing the return payment dates of the swap.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <paymentDatesInterim> AdjustableOrRelativeDates </paymentDatesInterim> [0..1]  
  'Element named \"equityPaymentDatesInterim\" in versions prior to FpML 4.2 Second  
  Working Draft. Specifies the interim payment dates of the swap. When defined in relation to  
  a date specified somewhere else in the document (through the relativeDates component),  
  this element will typically refer to the valuation dates and add a lag corresponding to  
  the settlement cycle of the underlyer.'  
  <paymentDateFinal> AdjustableOrRelativeDate </paymentDateFinal> [1]  
  'Element named \"equityPaymentDateFinal\" in versions prior to FpML 4.2 Second Working  
  Draft. Specifies the final payment date of the swap. When defined in relation to a  
  date specified somewhere else in the document (through the relativeDate component),  
  this element will typically refer to the final valuation date and add a lag corresponding  
  to the settlement cycle of the underlyer.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwapPaymentDates">  
  <xsd:sequence>  
    <xsd:element name="paymentDatesInterim" type=" AdjustableOrRelativeDates " minOccurs="0"/>  
    <xsd:element name="paymentDateFinal" type=" AdjustableOrRelativeDate" />  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID" />  
</xsd:complexType>
```

Complex Type: StartingDate

Super-types:	None
Sub-types:	None
Name	StartingDate
Used by (from the same schema document)	Complex Type <a href="#">DeprecatedVarianceAmount</a> , Complex Type <a href="#">ReturnSwapEarlyTermination</a>
Abstract	no
Documentation	A type specifying the date from which the early termination clause can be exercised.

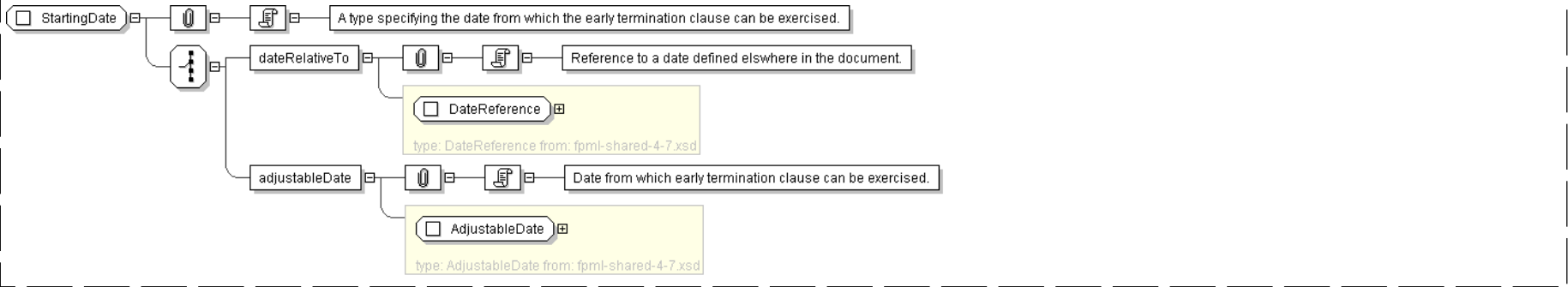
XML Instance Representation

```
<...>
  Start Choice [1]
    <dateRelativeTo> DateReference </dateRelativeTo> [1]
    'Reference to a date defined elsewhere in the document.'

    <adjustableDate> AdjustableDate </adjustableDate> [1]
    'Date from which early termination clause can be exercised.'

  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StartingDate">
  <xsd:choice>
    <xsd:element name="dateRelativeTo" type="DateReference" />
    <xsd:element name="adjustableDate" type="AdjustableDate" />
  </xsd:choice>
</xsd:complexType>
```

Complex Type: StubCalculationPeriod

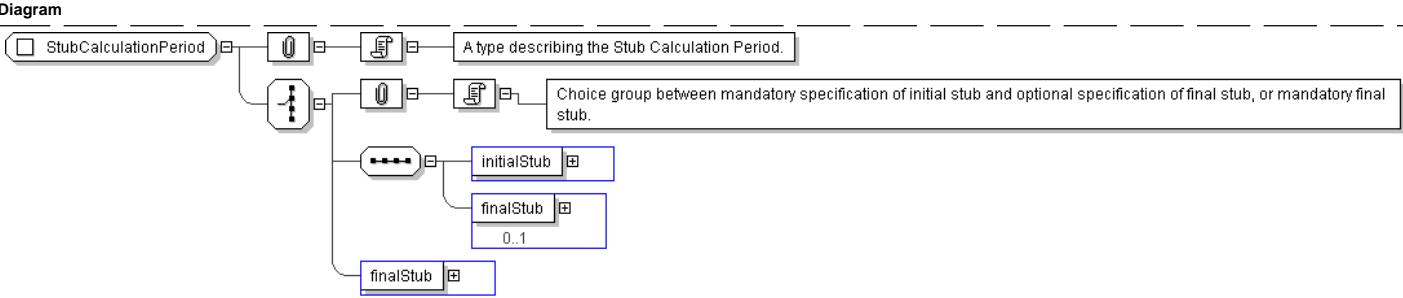
Super-types:	None
Sub-types:	None
Name	StubCalculationPeriod
Used by (from the same schema document)	Complex Type <a href="#">InterestLeg</a>
Abstract	no
Documentation	A type describing the Stub Calculation Period.

XML Instance Representation



```
<...>
Start Choice [1]
'Choice group between mandatory specification of initial stub and optional specification
of final stub, or mandatory final stub.'

<initialStub> Stub </initialStub> [1]
<finalStub> Stub </finalStub> [0..1]
<finalStub> Stub </finalStub> [1]
End Choice
</...>
```



Schema Component Representation

```
<xsd:complexType name="StubCalculationPeriod">
  <xsd:choice>
    <xsd:sequence>
      <xsd:element name="initialStub" type="Stub"/>
      <xsd:element name="finalStub" type="Stub" minOccurs="0"/>
    </xsd:sequence>
    <xsd:element name="finalStub" type="Stub"/>
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: **Variance**

Super-types:	<a href="#">CalculationFromObservation</a> < <b>Variance</b> (by extension)
Sub-types:	None
Name	Variance
Abstract	no
Documentation	A type describing the variance amount of a variance swap.

XML Instance Representation

```
<...>
Start Choice [1]
<initialLevel> xsd:decimal </initialLevel> [1]
'Contract will strike off this initial level.'

<closingLevel> xsd:boolean </closingLevel> [1]
'If true this contract will strike off the closing level of the default exchange
traded contract.'

<expiringLevel> xsd:boolean </expiringLevel> [1]
'If true this contract will strike off the expiring level of the default exchange
traded contract.'

End Choice
<expectedN> xsd:positiveInteger </expectedN> [0..1]
'Expected number of trading days.'
```

```
<varianceAmount> Money </varianceAmount> [1]
'Variance amount, which is a cash multiplier.'
```

Start Choice [1]

```
'Choice between expressing the strike as volatility or variance.'
```

```
<volatilityStrikePrice> NonNegativeDecimal </volatilityStrikePrice> [1]
<varianceStrikePrice> NonNegativeDecimal </varianceStrikePrice> [1]
```

End Choice

```
<varianceCap> xsd:boolean </varianceCap> [0..1]
'If present and true, then variance cap is applicable.'
```

```
<unadjustedVarianceCap> PositiveDecimal </unadjustedVarianceCap> [0..1]
'For use when varianceCap is applicable. Contains the scaling factor of the Variance Cap
that can differ on a trade-by-trade basis in the European market. For example, a Variance
Cap of 2.5^2 x Variance Strike Price has an unadjustedVarianceCap of 2.5.'
```

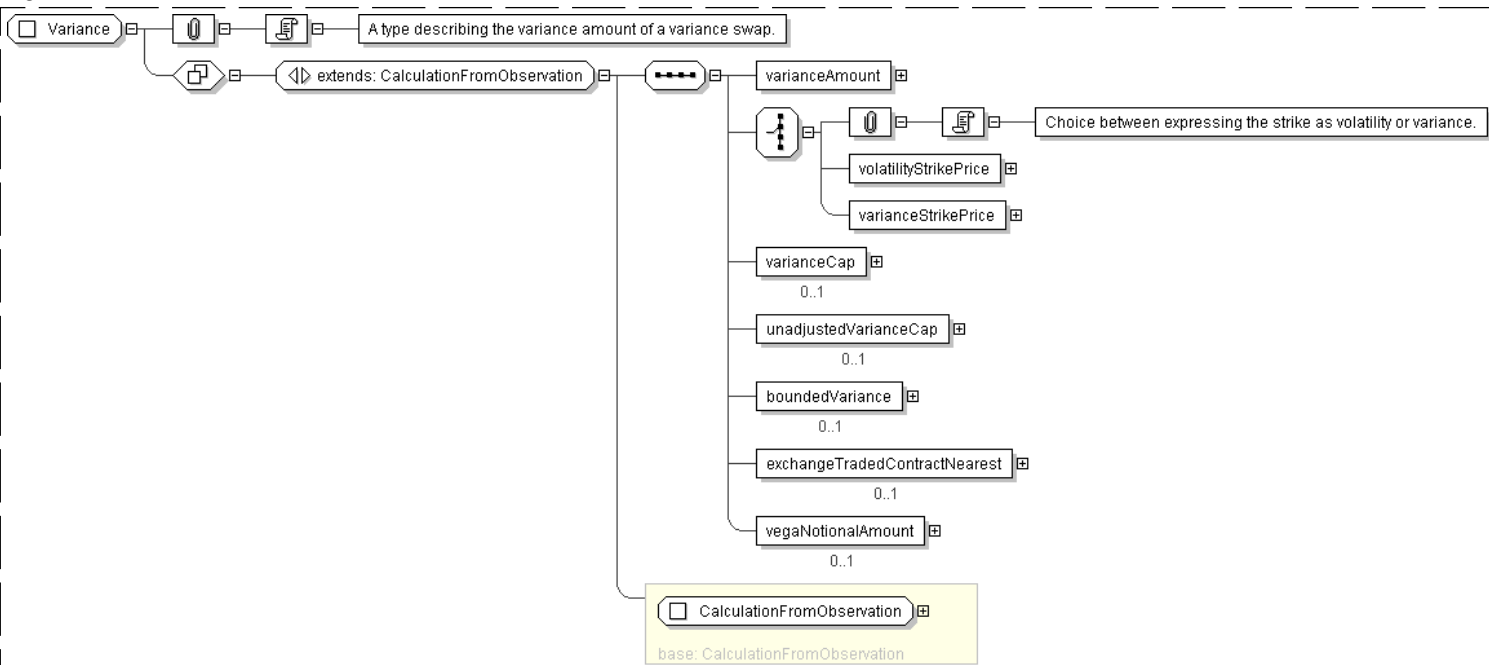
```
<boundedVariance> BoundedVariance </boundedVariance> [0..1]
'Conditions which bound variance. The contract specifies one or more boundary levels.
These levels are expressed as prices for confirmation purposes Underlyer price must be equal
to or higher than Lower Barrier is known as Up Conditional Swap Underlyer price must be
equal to or lower than Upper Barrier is known as Down Conditional Swap Underlyer price must
be equal to or higher than Lower Barrier and must be equal to or lower than Upper Barrier
is known as Barrier Conditional Swap.'
```

```
<exchangeTradedContractNearest> ExchangeTradedContract </exchangeTradedContractNearest> [0..1]
'Specification of the exchange traded contract nearest.'
```

```
<vegaNotionalAmount> xsd:decimal </vegaNotionalAmount> [0..1]
'Vega Notional represents the approximate gain/loss at maturity for a 1% difference
between RVol (realised vol) and KVol (strike vol). It does not necessarily represent the
Vega Risk of the trade.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Variance">
  <xsd:complexContent>
    <xsd:extension base="CalculationFromObservation" />
    <xsd:sequence>
      <xsd:element name="varianceAmount" type="Money" />
      <xsd:choice>
        <xsd:element name="volatilityStrikePrice" type="NonNegativeDecimal" />
        <xsd:element name="varianceStrikePrice" type="NonNegativeDecimal" />
      </xsd:choice>
      <xsd:element name="varianceCap" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="unadjustedVarianceCap" type="PositiveDecimal" minOccurs="0"/>
      <xsd:element name="boundedVariance" type="BoundedVariance" minOccurs="0"/>
      <xsd:element name="exchangeTradedContractNearest" type="ExchangeTradedContract" minOccurs="0"/>
      <xsd:element name="vegaNotionalAmount" type="xsd:decimal" minOccurs="0"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

[top](#)

Model Group: **CurrencyAndDeterminationMethod.model**

Name	CurrencyAndDeterminationMethod.model
Used by (from the same schema document)	Complex Type <a href="#">DividendConditions</a> , Complex Type <a href="#">LegAmount</a>
Documentation	A group containing return swap amount currency definition methods

XML Instance Representation

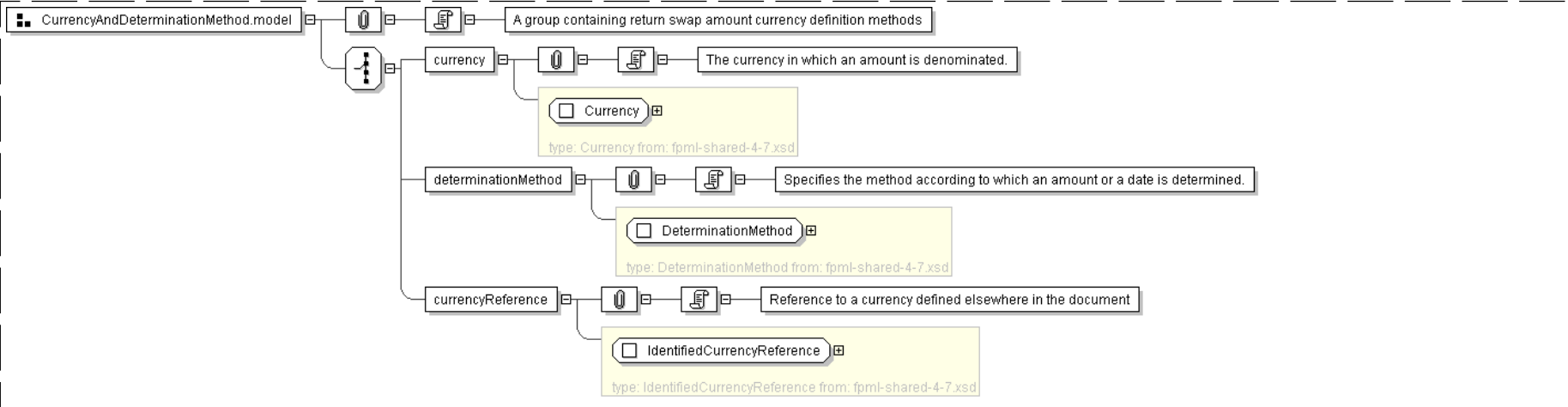
```
Start Choice [1]
<currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

<determinationMethod> DeterminationMethod </determinationMethod> [1]
  'Specifies the method according to which an amount or a date is determined.'

<currencyReference> IdentifiedCurrencyReference </currencyReference> [1]
  'Reference to a currency defined elsewhere in the document'

End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="CurrencyAndDeterminationMethod.model">
  <xsd:choice>
    <xsd:element name="currency" type=" Currency " />
    <xsd:element name="determinationMethod" type=" DeterminationMethod " />
    <xsd:element name="currencyReference" type=" IdentifiedCurrencyReference " />
  </xsd:choice>
</xsd:group>
```

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Model Group: **DeclaredCashAndCashEquivalentDividendPercentage.model**

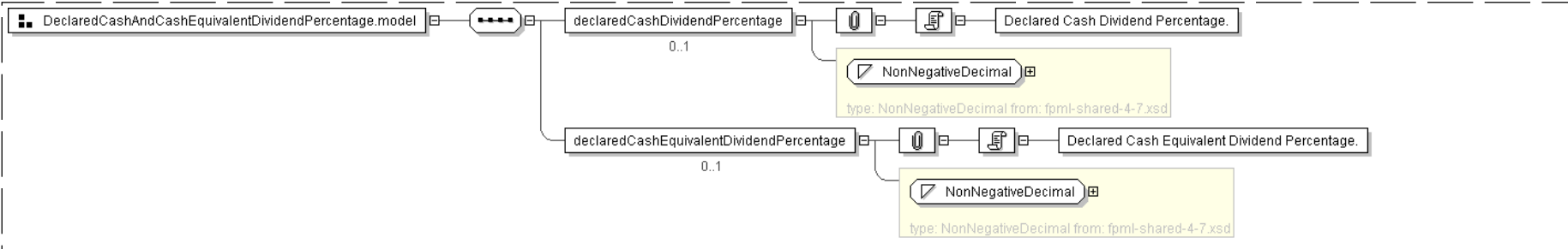
Name	DeclaredCashAndCashEquivalentDividendPercentage.model
Used by (from the same schema document)	Complex Type <a href="#">DividendConditions</a>

XML Instance Representation

```
<declaredCashDividendPercentage> NonNegativeDecimal </declaredCashDividendPercentage> [0..1]
'Declared Cash Dividend Percentage.'
```

```
<declaredCashEquivalentDividendPercentage> NonNegativeDecimal
</declaredCashEquivalentDividendPercentage> [0..1]
'Declared Cash Equivalent Dividend Percentage.'
```

Diagram



Schema Component Representation

```
<xsd:group name="DeclaredCashAndCashEquivalentDividendPercentage.model">
  <xsd:sequence>
    <xsd:element name="declaredCashDividendPercentage" type=" NonNegativeDecimal " minOccurs="0"/>
    <xsd:element name="declaredCashEquivalentDividendPercentage" type=" NonNegativeDecimal " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **EquityUnderlyerProvisions.model**

Name	EquityUnderlyerProvisions.model
Documentation	A group containing Equity Underlyer provisions.

XML Instance Representation

```
Start Sequence [0..1]
<multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]
'Used for specifying whether additional annex terms for trades with underlyers that are listed on multiple exchanges will apply.'
```

```
<multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]
'Used for specifying additional annex terms for trades with underlyers that are listed on multiple exchanges.'
```

End Sequence

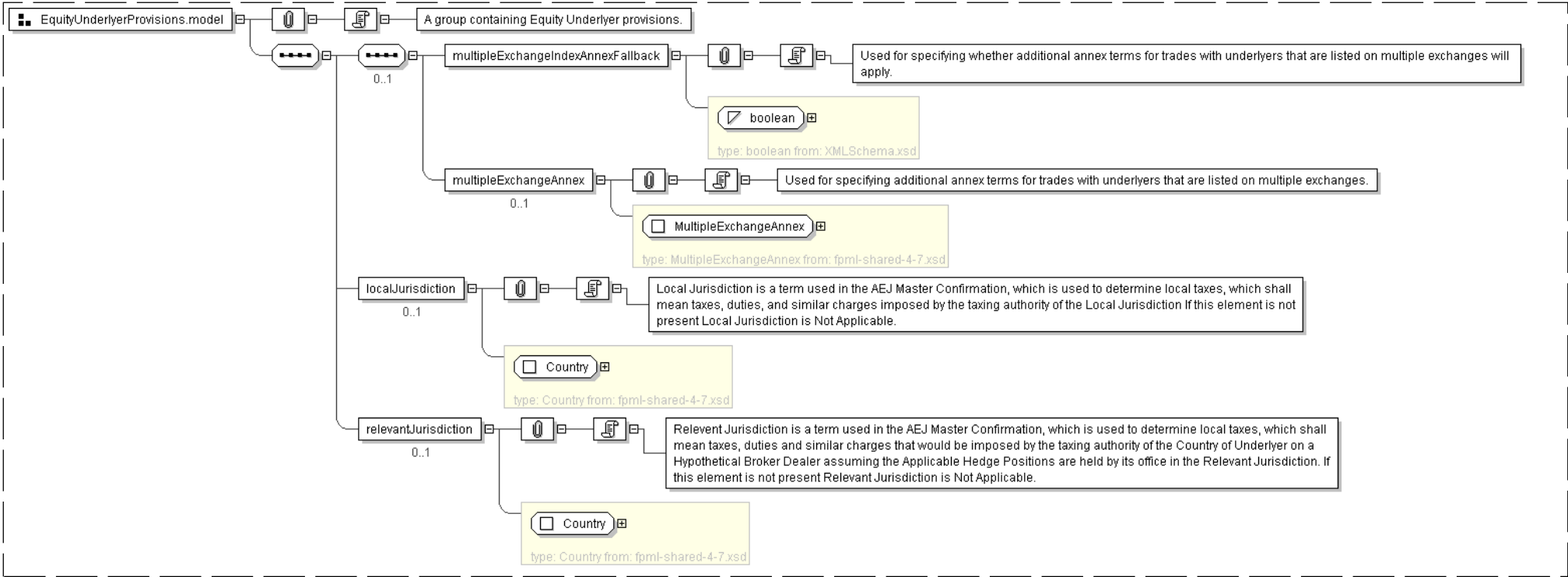
<localJurisdiction> Country </localJurisdiction> [0..1]

'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties, and similar charges imposed by the taxing authority of the Local Jurisdiction If this element is not present Local Jurisdiction is Not Applicable.'

<relevantJurisdiction> Country </relevantJurisdiction> [0..1]

'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties and similar charges that would be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker Dealer assuming the Applicable Hedge Positions are held by its office in the Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'

Diagram



Schema Component Representation

```
<xsd:group name="EquityUnderlierProvisions.model">
  <xsd:sequence>
    <xsd:sequence minOccurs="0">
      <xsd:element name="multipleExchangeIndexAnnexFallback" type="xsd:boolean"/>
      <xsd:element name="multipleExchangeAnnex" type="MultipleExchangeAnnex" minOccurs="0"/>
    </xsd:sequence>
    <xsd:element name="localJurisdiction" type="Country" minOccurs="0"/>
    <xsd:element name="relevantJurisdiction" type="Country" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

Model Group: **Feature.model**

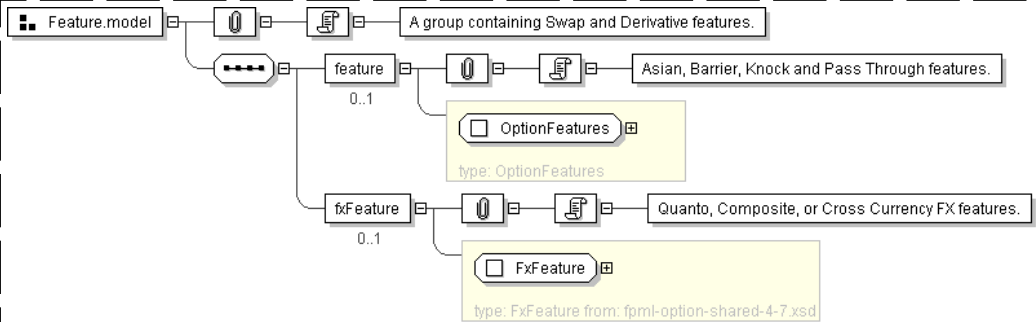
Name	Feature.model
Documentation	A group containing Swap and Derivative features.

XML Instance Representation

```
<feature> OptionFeatures </feature> [0..1]
'Asian, Barrier, Knock and Pass Through features.'
```

```
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features.'
```

Diagram



Schema Component Representation

```
<xsd:group name="Feature.model">
  <xsd:sequence>
    <xsd:element name="feature" type="OptionFeatures" minOccurs="0"/>
    <xsd:element name="fxFeature" type="FxFeature" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **MutualOrOptionalEarlyTermination.model**

Name	MutualOrOptionalEarlyTermination.model
------	--

XML Instance Representation

```
Start Choice [1]
<mutualEarlyTermination> xsd:boolean </mutualEarlyTermination> [0..1]
'Used for specifying whether the Mutual Early Termination Right that is detailed in the
Master Confirmation will apply.'
```

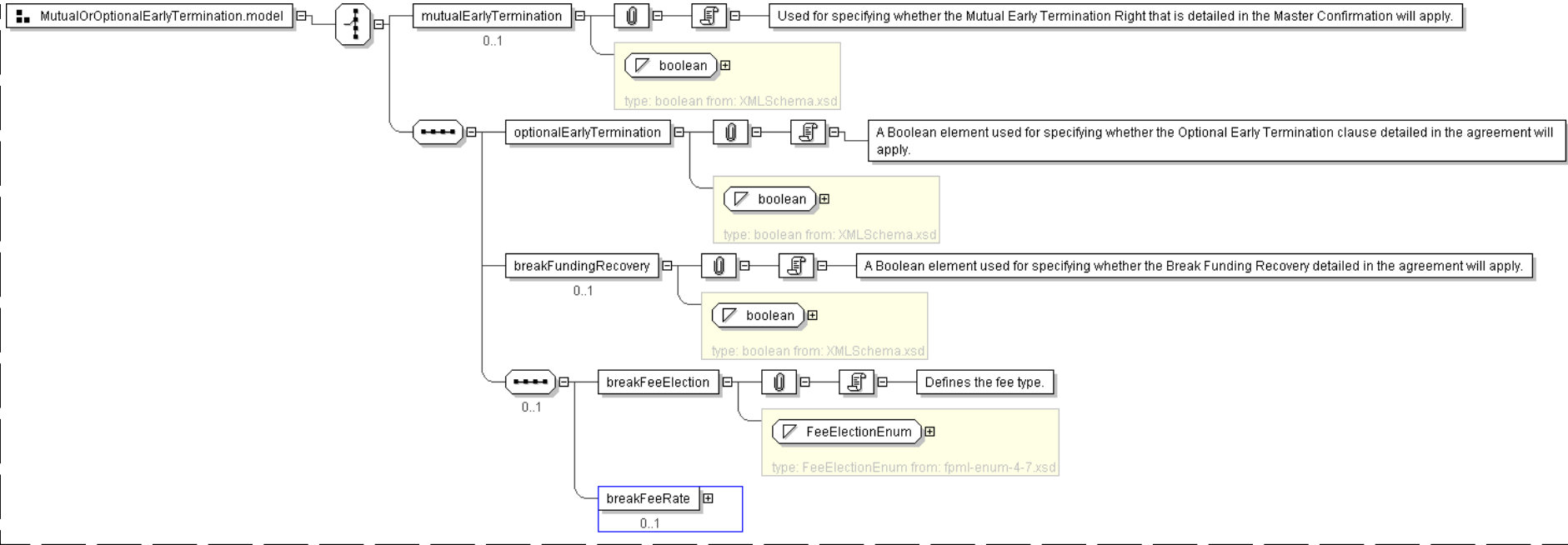
```
<optionalEarlyTermination> xsd:boolean </optionalEarlyTermination> [1]
'A Boolean element used for specifying whether the Optional Early Termination clause
detailed in the agreement will apply.'
```

```
<breakFundingRecovery> xsd:boolean </breakFundingRecovery> [0..1]
'A Boolean element used for specifying whether the Break Funding Recovery detailed in
the agreement will apply.'
```

```
Start Sequence [0..1]
  <breakFeeElection> FeeElectionEnum </breakFeeElection> [1]
  'Defines the fee type.'
```

```
  <breakFeeRate> NonNegativeDecimal </breakFeeRate> [0..1]
End Sequence
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="MutualOrOptionalEarlyTermination.model">
  <xsd:choice>
    <xsd:element name="mutualEarlyTermination" type="xsd:boolean" minOccurs="0"/>
    <xsd:sequence>
      <xsd:element name="optionalEarlyTermination" type="xsd:boolean" />
      <xsd:element name="breakFundingRecovery" type="xsd:boolean" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="breakFeeElection" type="FeeElectionEnum" />
        <xsd:element name="breakFeeRate" type="NonNegativeDecimal" minOccurs="0"/>
      </xsd:sequence>
    </xsd:sequence>
  </xsd:choice>
</xsd:group>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
```

```
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** Only *one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of



element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6399 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>

xsd	http://www.w3.org/2001/XMLSchema
fpml	http://www.fpml.org/2009/FpML-4-7

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6399 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

[top](#)

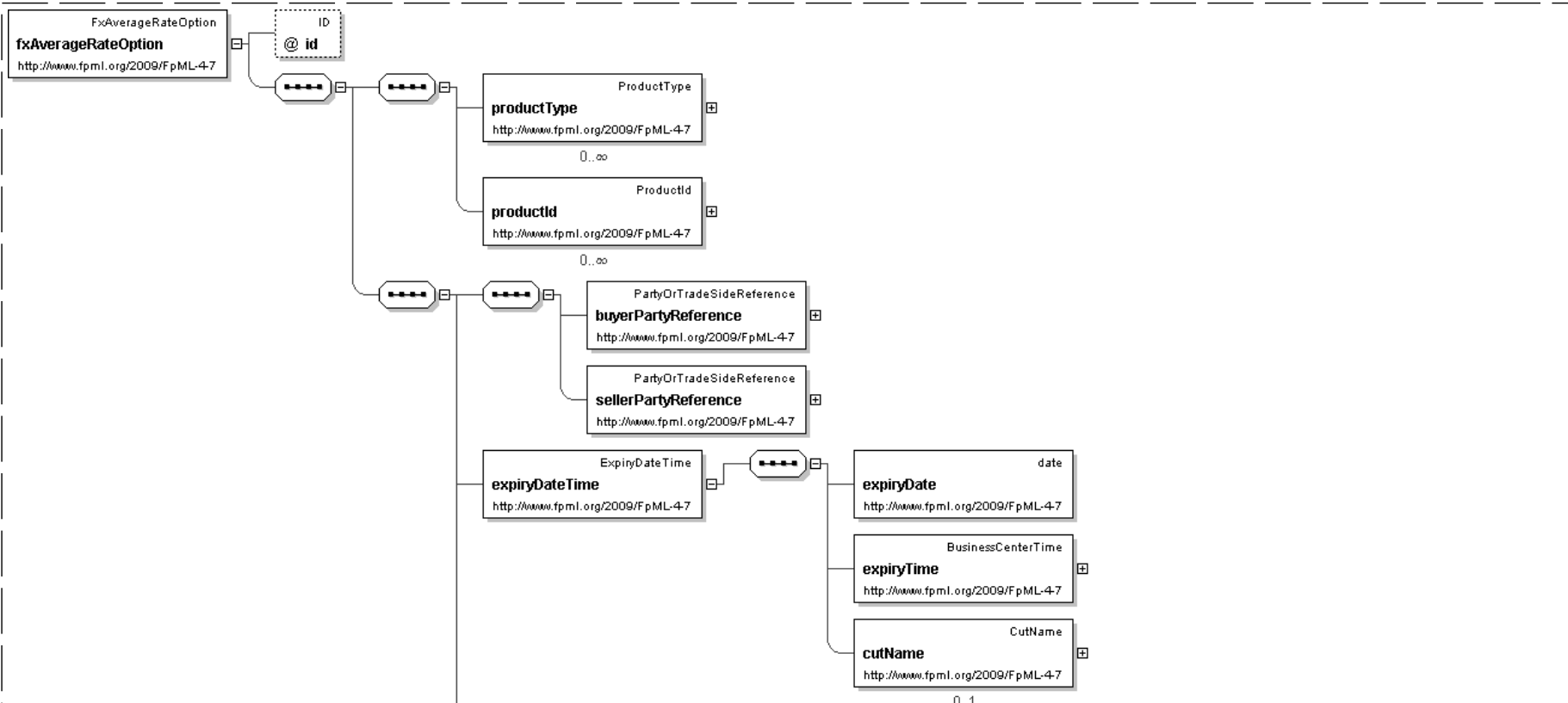
Global Declarations

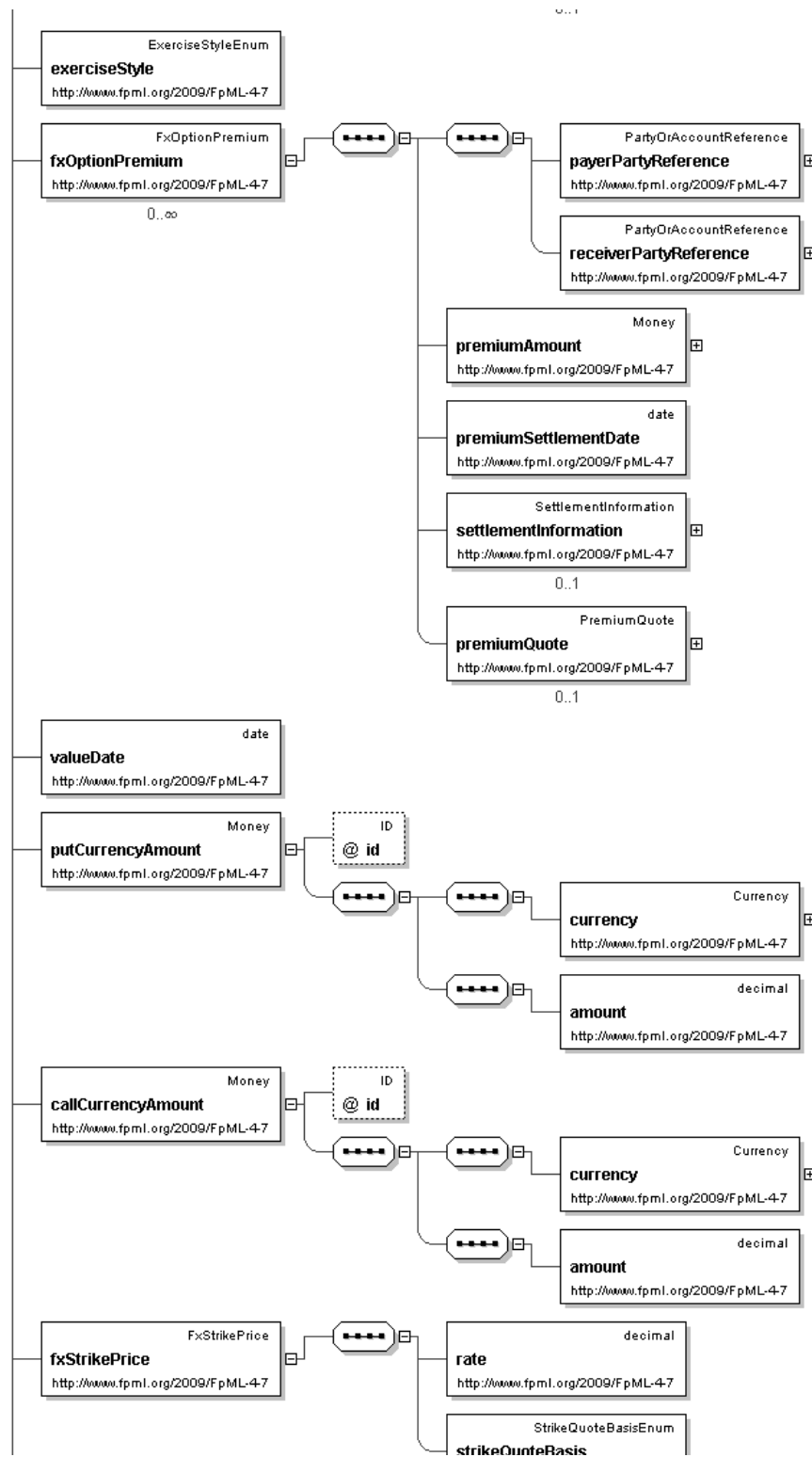
Element: **fxAverageRateOption**

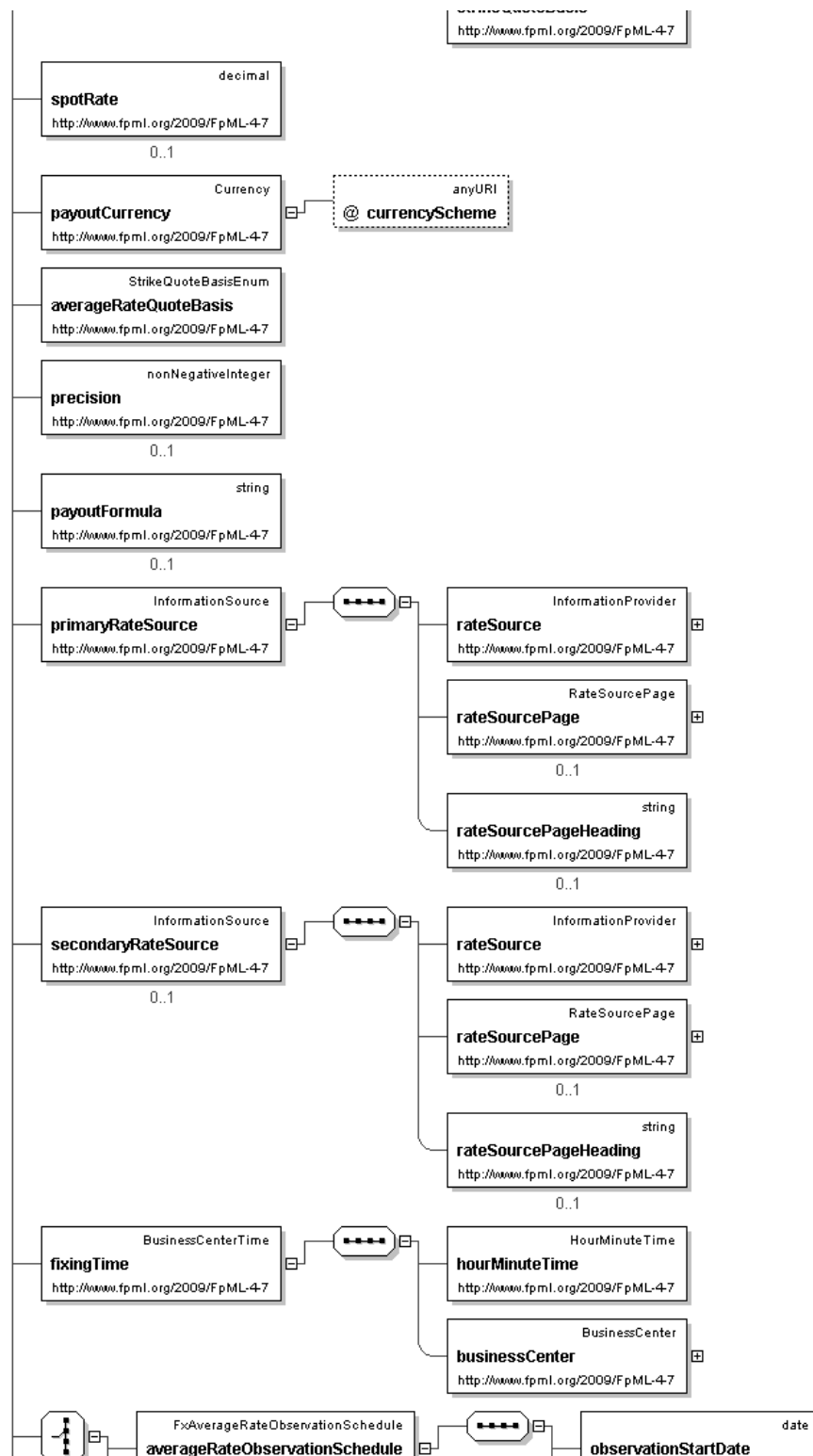
- This element can be used wherever the following element is referenced:
  - [product](#)

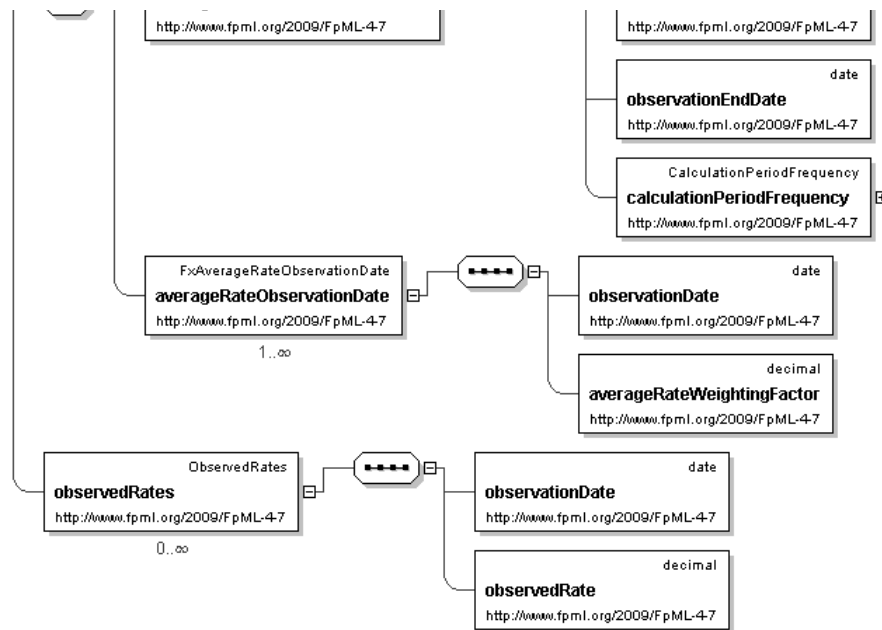
Name	fxAverageRateOption
Type	<a href="#">FxAverageRateOption</a>
Nilifiable	no
Abstract	no
Documentation	A component describing an FX Average Rate Option product.

Logical Diagram









### XML Instance Representation

```

<fxAverageRateOption
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <expiryDateTime> ExpiryDateTime </expiryDateTime> [1]
  'The date and time in a location of the option expiry. In the case of american options this
  is the latest possible expiry date and time.'

  <exerciseStyle> ExerciseStyleEnum </exerciseStyle> [1]
  'The manner in which the option can be exercised.'

  <fxOptionPremium> FxOptionPremium </fxOptionPremium> [0..*]
  'Premium amount or premium installment amount for an option.'

  <valueDate> xsd:date </valueDate> [1]
  'The date on which both currencies traded will settle.'
```

```

<putCurrencyAmount> Money </putCurrencyAmount> [1]
'The currency amount that the option gives the right to sell.'

<callCurrencyAmount> Money </callCurrencyAmount> [1]
'The currency amount that the option gives the right to buy.'

<fxStrikePrice> FxStrikePrice </fxStrikePrice> [1]
'TBA'

<spotRate> xsd:decimal </spotRate> [0..1]
'An optional element used for FX forwards and certain types of FX OTC options. For
deals consummated in the FX Forwards Market, this represents the current market rate for
a particular currency pair. For barrier and digital/binary options, it can be useful to
include the spot rate at the time the option was executed to make it easier to know whether
the option needs to move \"up\" or \"down\" to be triggered.'

<payoutCurrency> Currency </payoutCurrency> [1]
'The ISO code of the currency in which a payout (if any) is to be made when a trigger is hit
on a digital or barrier option.'

<averageRateQuoteBasis> StrikeQuoteBasisEnum </averageRateQuoteBasis> [1]
'The method by which the average rate that is being observed is quoted.'

<precision> xsd:nonNegativeInteger </precision> [0..1]
'Specifies the rounding precision in terms of a number of decimal places. Note how a
percentage rate rounding of 5 decimal places is expressed as a rounding precision of 7 in
the FpML document since the percentage is expressed as a decimal, e.g. 9.876543%
(or 0.09876543) being rounded to the nearest 5 decimal places is 9.87654% (or 0.0987654).'xsd:string </payoutFormula> [0..1]
'The description of the mathematical computation for how the payout is computed.'

<primaryRateSource> InformationSource </primaryRateSource> [1]
'The primary source for where the rate observation will occur. Will typically be either a
page or a reference bank published rate.'

<secondaryRateSource> InformationSource </secondaryRateSource> [0..1]
'An alternative, or secondary, source for where the rate observation will occur. Will
typically be either a page or a reference bank published rate.'

<fixingTime> BusinessCenterTime </fixingTime> [1]
'The time at which the spot currency exchange rate will be observed. It is specified as a
time in a specific business center, e.g. 11:00am London time.'

Start Choice [1]
  <averageRateObservationSchedule> FxAverageRateObservationSchedule
  </averageRateObservationSchedule> [1]
  'Parametric schedule of rate observations.'

  <averageRateObservationDate> FxAverageRateObservationDate </averageRateObservationDate> [1..*]
  'One of more specific rate observation dates.'

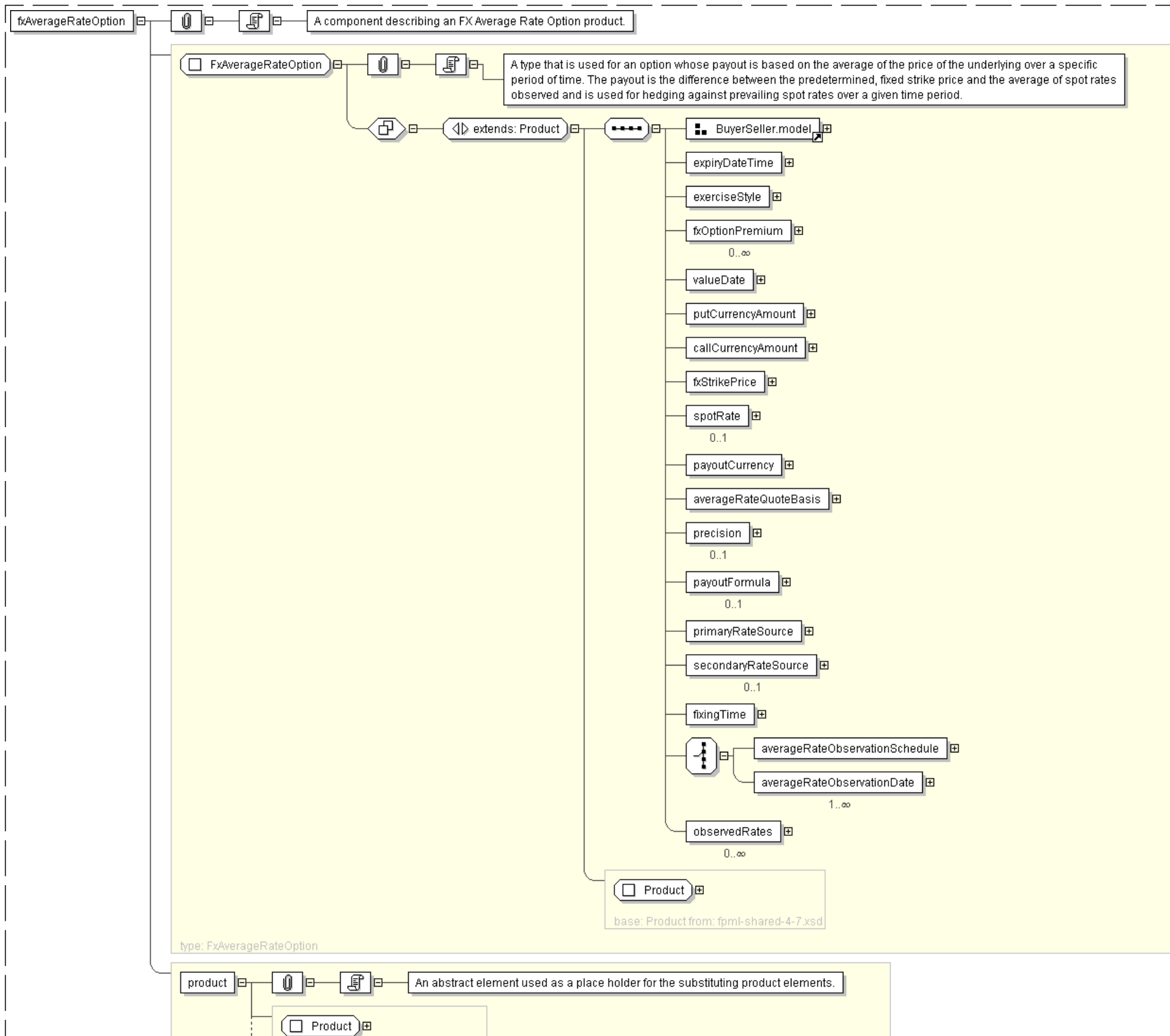
End Choice

<observedRates> ObservedRates </observedRates> [0..*]
'Describes prior rate observations within average rate options. Periodically, an average
rate option agreement will be struck whereby some rates have already been observed in the
past but will become part of computation of the average rate of the option. This
structure provides for these previously observed rates to be included in the description of
the trade.'

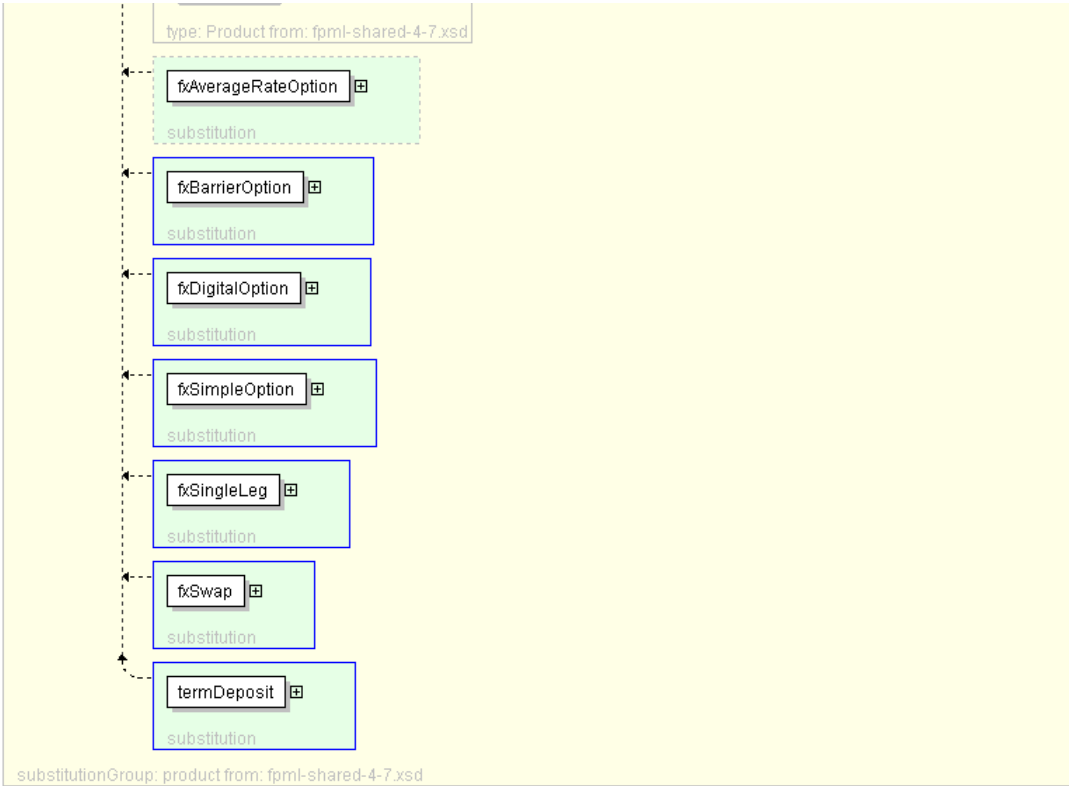
</fxAverageRateOption>

```

## Diagram







Schema Component Representation

```
<xsd:element name="fxAverageRateOption" type=" FxAverageRateOption"
" substitutionGroup="product"/>
```

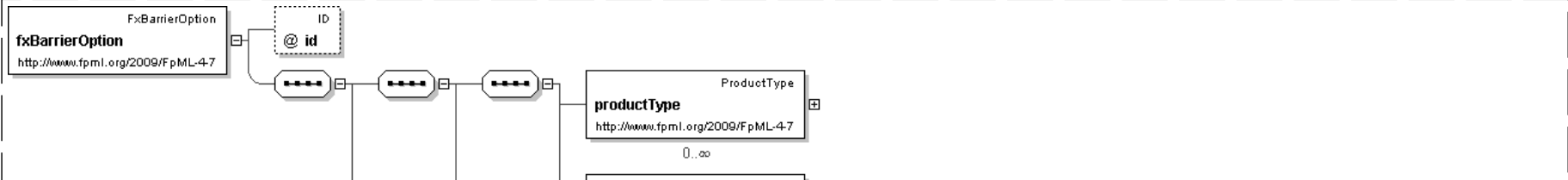
[top](#)

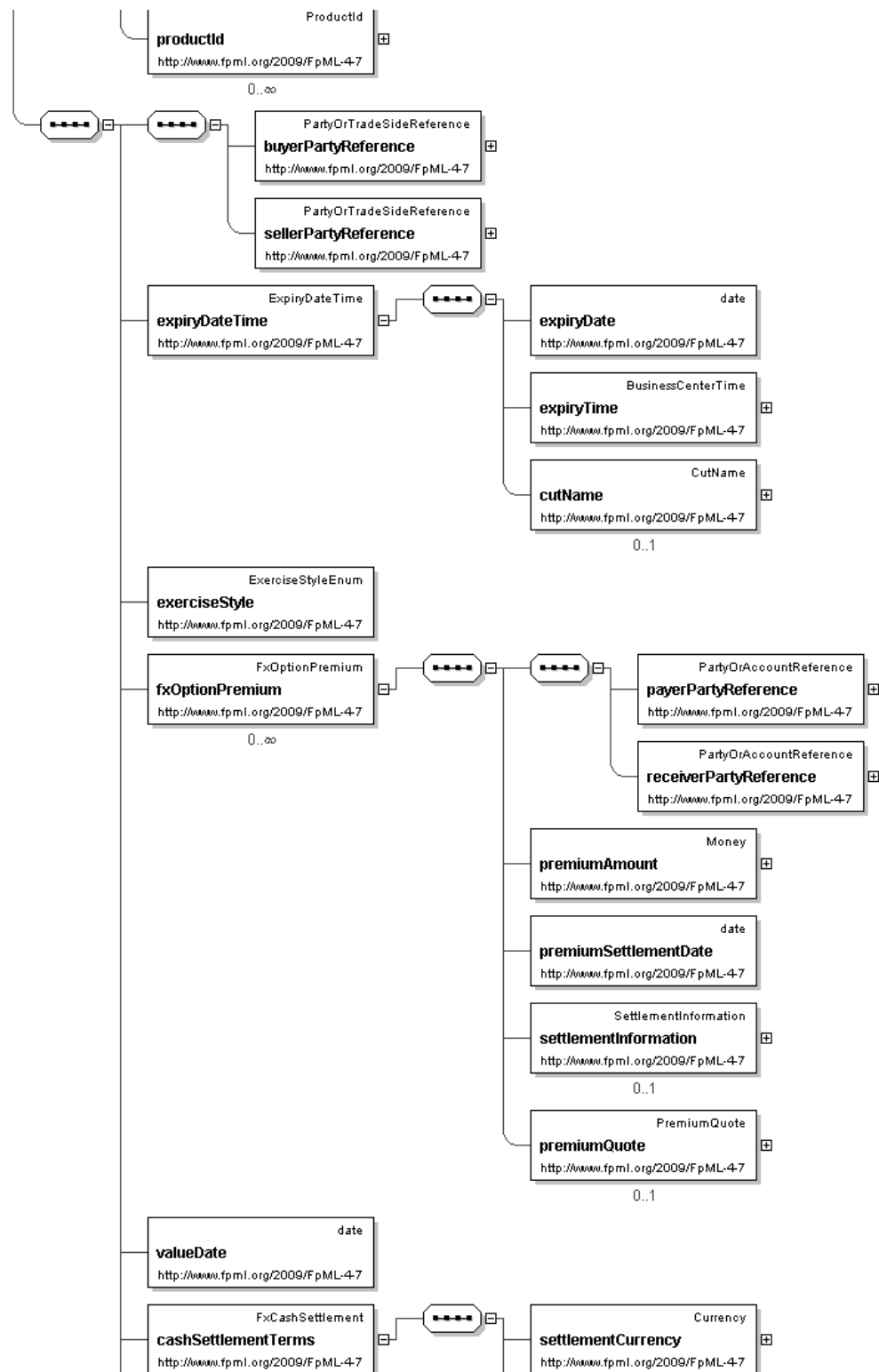
Element: **fxBarrierOption**

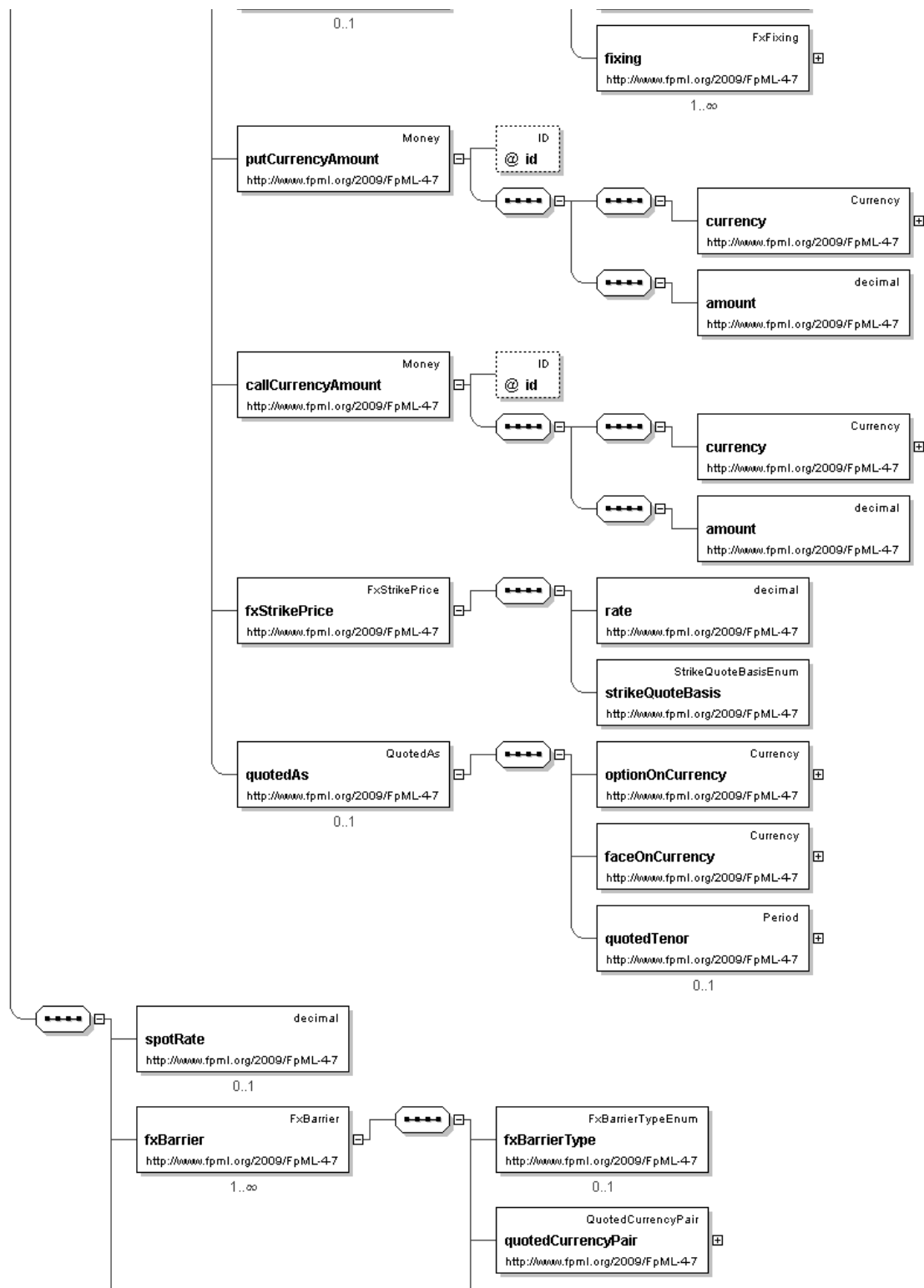
- . This element can be used wherever the following element is referenced:
  - o [product](#)

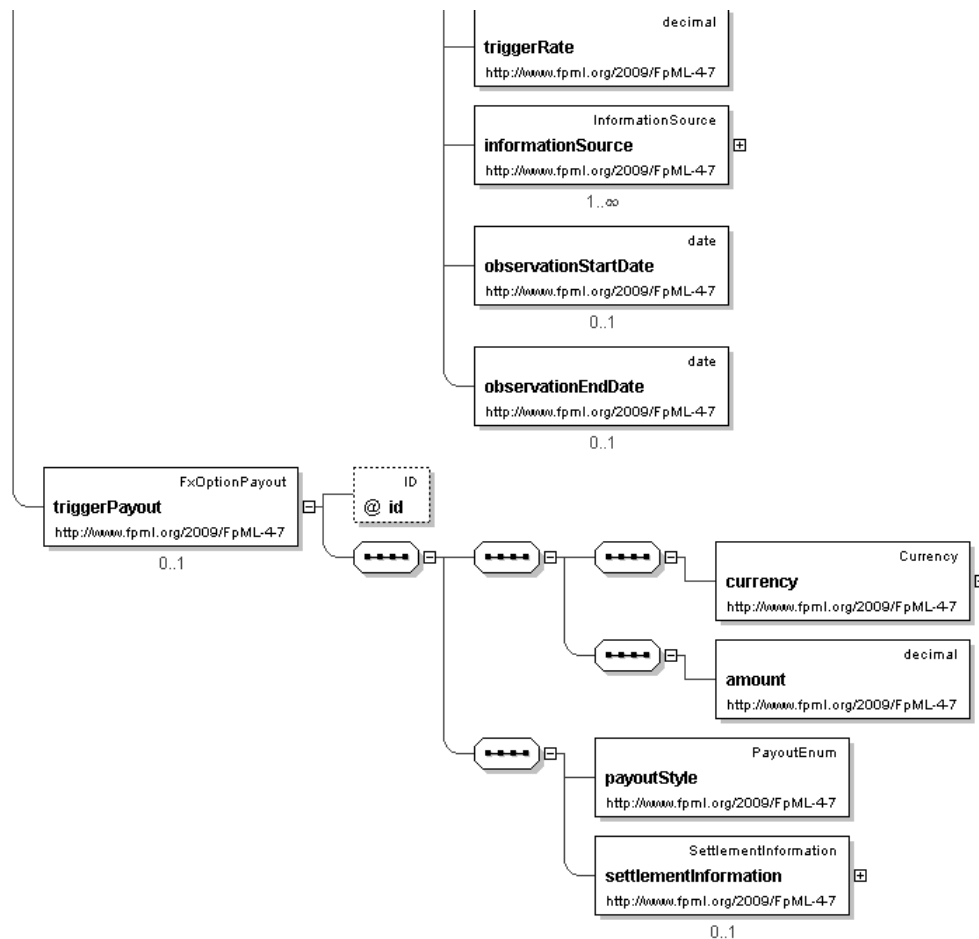
Name	fxBarrierOption
Type	<a href="#">FxBarrierOption</a>
Nilable	no
Abstract	no
Documentation	A component describing a FX Barrier Option product.

Logical Diagram







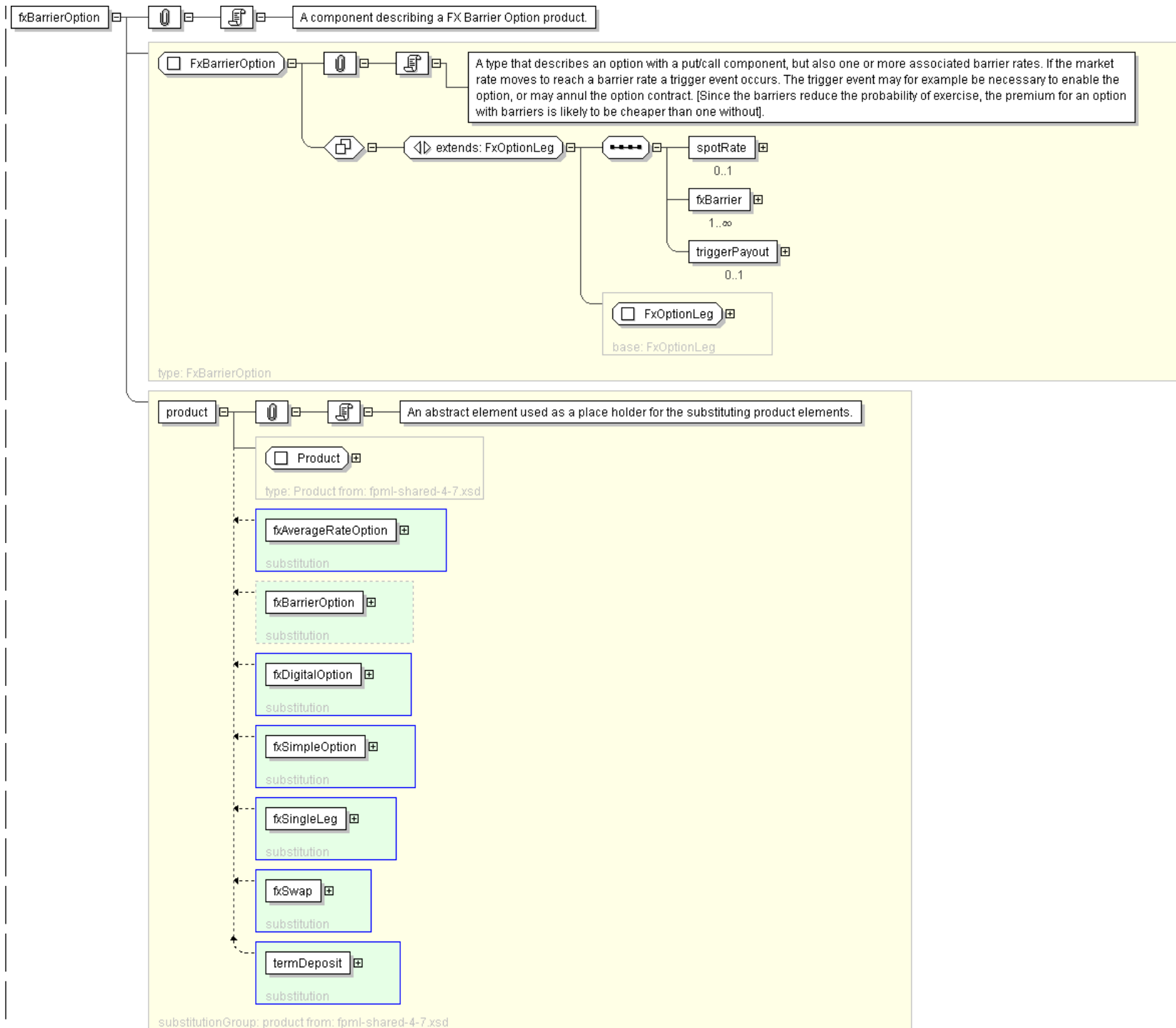


### XML Instance Representation

```
<fxBarrierOption
  id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'
  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'
  <expiryDateTime> ExpiryDateTime </expiryDateTime> [1]
```

<code>&lt;exerciseStyle&gt;</code>	<code>ExerciseStyleEnum</code>	<code>&lt;/exerciseStyle&gt;</code>	[1]	'The date and time in a location of the option expiry. In the case of american options this is the latest possible expiry date and time.'
<code>&lt;fxOptionPremium&gt;</code>	<code>FxOptionPremium</code>	<code>&lt;/fxOptionPremium&gt;</code>	[0..*]	'Premium amount or premium installment amount for an option.'
<code>&lt;valueDate&gt;</code>	<code>xsd:date</code>	<code>&lt;/valueDate&gt;</code>	[1]	'The date on which both currencies traded will settle.'
<code>&lt;cashSettlementTerms&gt;</code>	<code>FxCashSettlement</code>	<code>&lt;/cashSettlementTerms&gt;</code>	[0..1]	'This optional element is only used if an option has been specified at execution time to be settled into a single cash payment. This would be used for a non-deliverable option.'
<code>&lt;putCurrencyAmount&gt;</code>	<code>Money</code>	<code>&lt;/putCurrencyAmount&gt;</code>	[1]	'The currency amount that the option gives the right to sell.'
<code>&lt;callCurrencyAmount&gt;</code>	<code>Money</code>	<code>&lt;/callCurrencyAmount&gt;</code>	[1]	'The currency amount that the option gives the right to buy.'
<code>&lt;fxStrikePrice&gt;</code>	<code>FxStrikePrice</code>	<code>&lt;/fxStrikePrice&gt;</code>	[1]	'TBA'
<code>&lt;quotedAs&gt;</code>	<code>QuotedAs</code>	<code>&lt;/quotedAs&gt;</code>	[0..1]	'Describes how the option was quoted.'
<code>&lt;spotRate&gt;</code>	<code>xsd:decimal</code>	<code>&lt;/spotRate&gt;</code>	[0..1]	'An optional element used for FX forwards and certain types of FX OTC options. For deals consumated in the FX Forwards Market, this represents the current market rate for a particular currency pair. For barrier and digital/binary options, it can be useful to include the spot rate at the time the option was executed to make it easier to know whether the option needs to move \"up\" or \"down\" to be triggered.'
<code>&lt;fxBarrier&gt;</code>	<code>FxBarrier</code>	<code>&lt;/fxBarrier&gt;</code>	[1..*]	'Information about a barrier rate in a Barrier Option - specifying the exact criteria for a trigger event to occur.'
<code>&lt;triggerPayout&gt;</code>	<code>FxOptionPayout</code>	<code>&lt;/triggerPayout&gt;</code>	[0..1]	'The amount of currency which becomes payable if and when a trigger event occurs.'
<code>&lt;/fxBarrierOption&gt;</code>				

Diagram



## Schema Component Representation

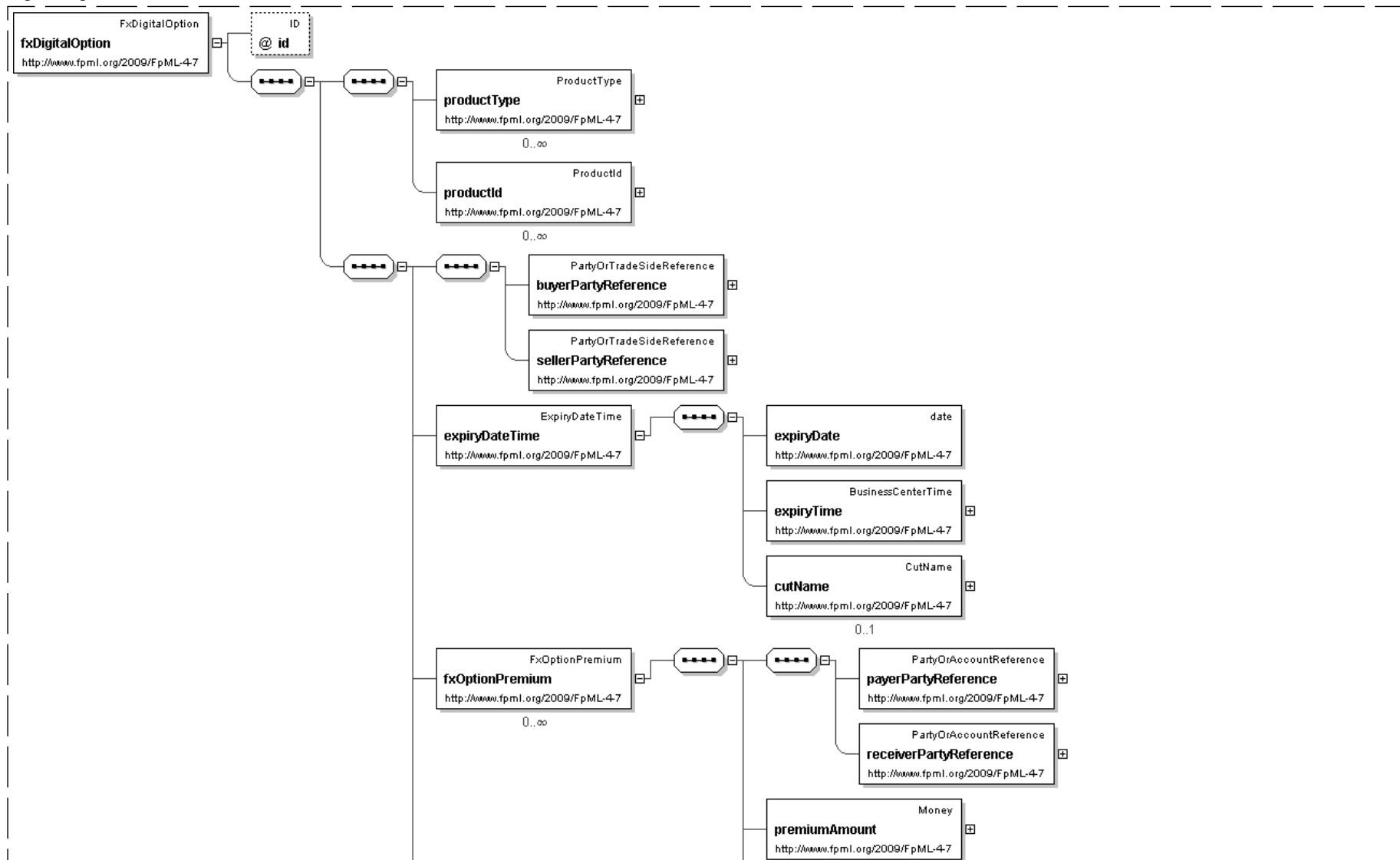
```
<xsd:element name="fxBarrierOption" type="FxBarrierOption" substitutionGroup="product"/>
```

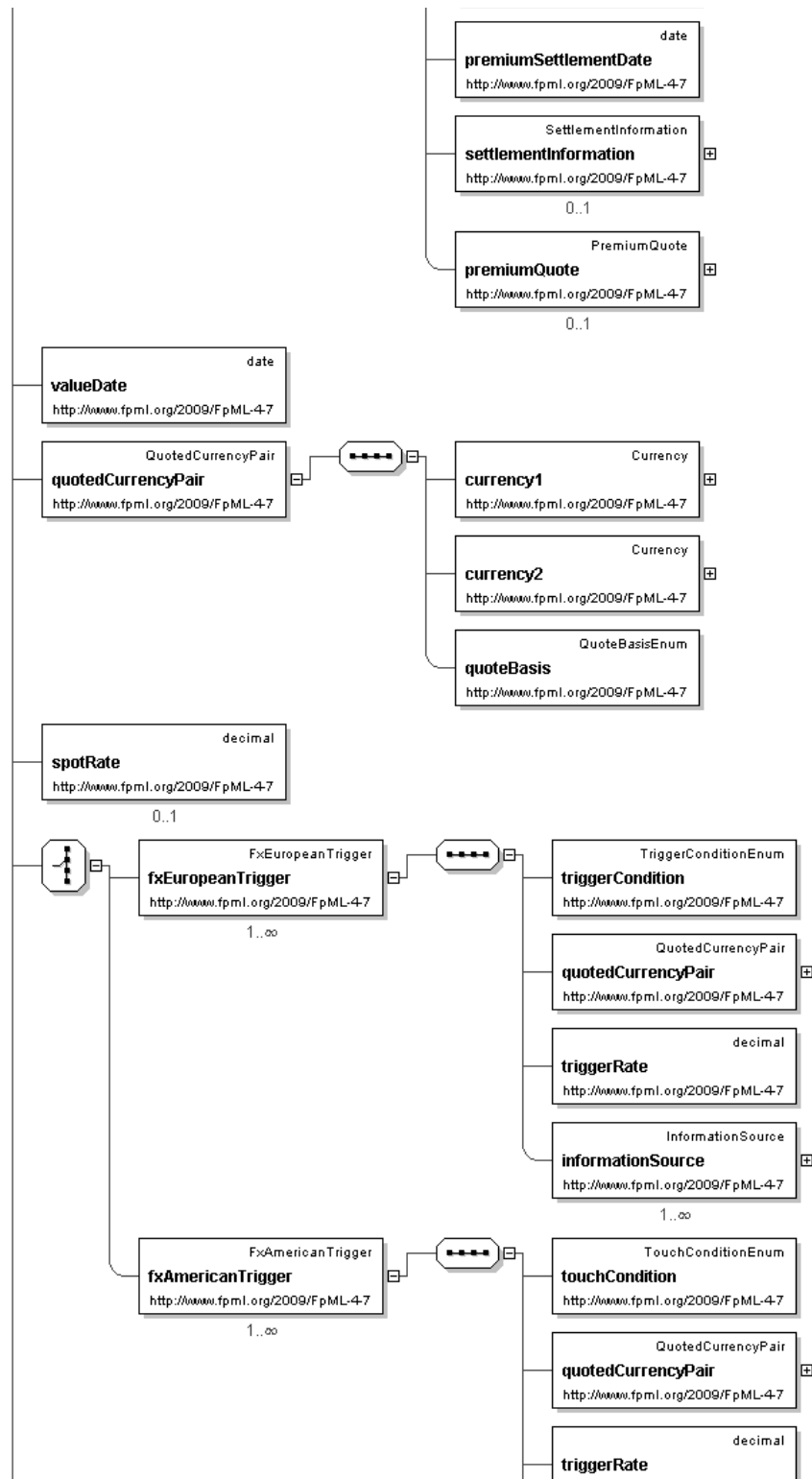
Element: **fxDigitalOption**

- This element can be used wherever the following element is referenced:
  - [product](#)

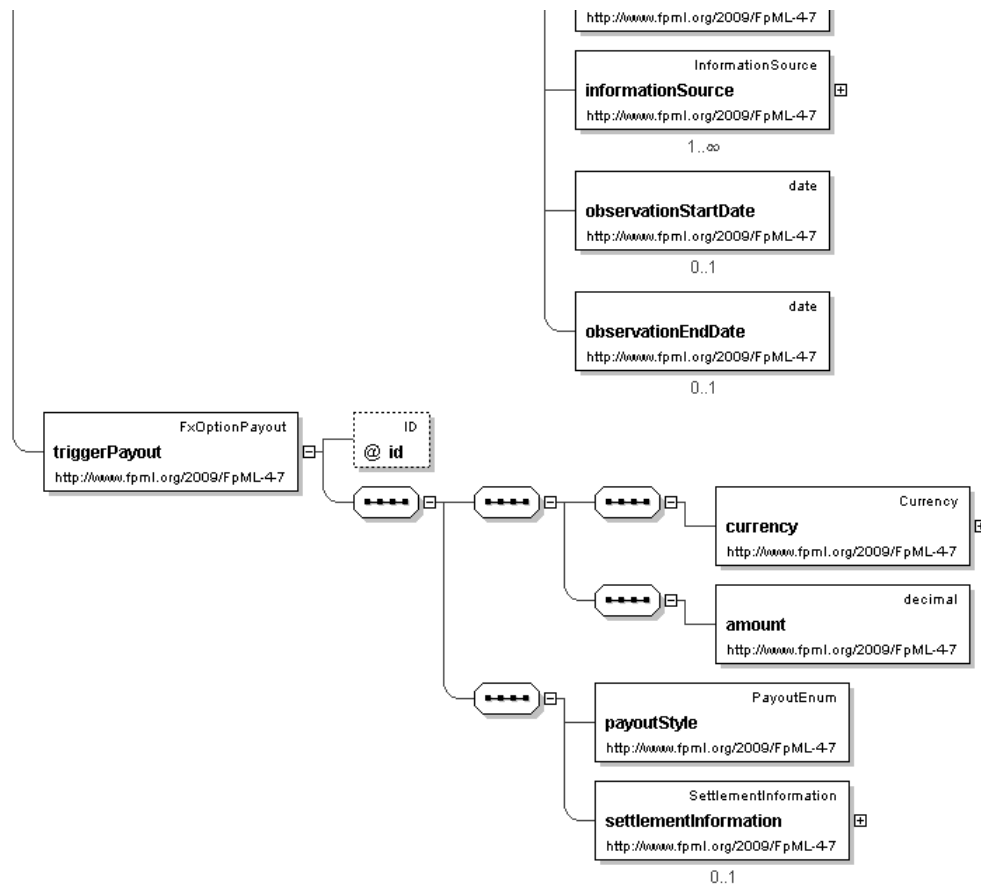
<b>Name</b>	fxDigitalOption
<b>Type</b>	<a href="#">FxDigitalOption</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	A component describing a FX Digital Option product.

## Logical Diagram









### XML Instance Representation

```
<fxDigitalOption
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <expiryDateTime> ExpiryDateTime </expiryDateTime> [1]
  'The date and time in a location of the option expiry. In the case of american options this
  is the latest possible expiry date and time.'
```

```
<fxOptionPremium> FxOptionPremium </fxOptionPremium> [0..*]
```

'Premium amount or premium installment amount for an option.'

```
<valueDate> xsd:date </valueDate> [1]
```

'The date on which both currencies traded will settle.'

```
<quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
```

'Defines the two currencies for an FX trade and the quotation relationship between the two currencies.'

```
<spotRate> xsd:decimal </spotRate> [0..1]
```

'An optional element used for FX forwards and certain types of FX OTC options. For deals consummated in the FX Forwards Market, this represents the current market rate for a particular currency pair. For barrier and digital/binary options, it can be useful to include the spot rate at the time the option was executed to make it easier to know whether the option needs to move \"up\" or \"down\" to be triggered.'

Start [Choice](#) [1]

```
<fxEuropeanTrigger> FxEuropeanTrigger </fxEuropeanTrigger> [1..*]
```

'A European trigger occurs if the trigger criteria are met, but these are valid (and an observation is made) only at the maturity of the option.'

```
<fxAmericanTrigger> FxAmericanTrigger </fxAmericanTrigger> [1..*]
```

'An American trigger occurs if the trigger criteria are met at any time from the initiation to the maturity of the option.'

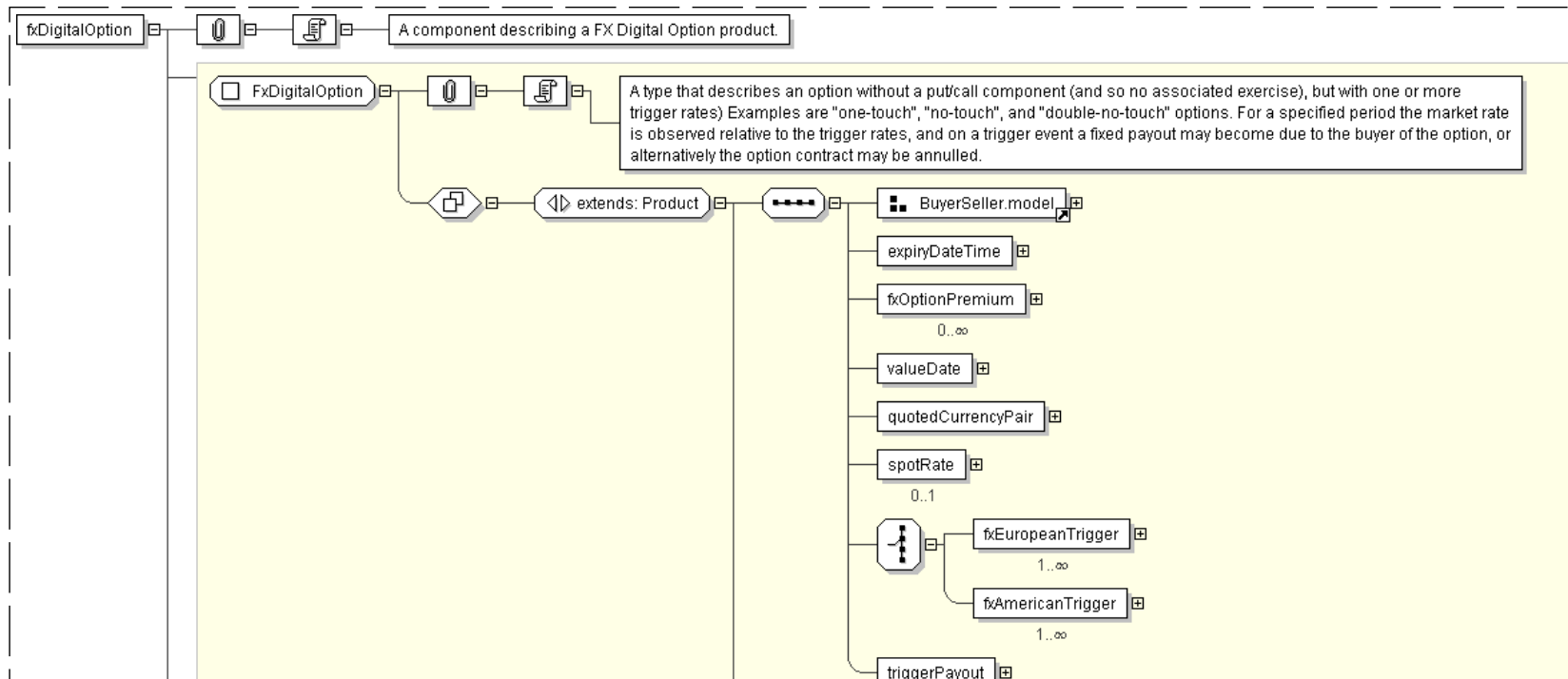
End [Choice](#)

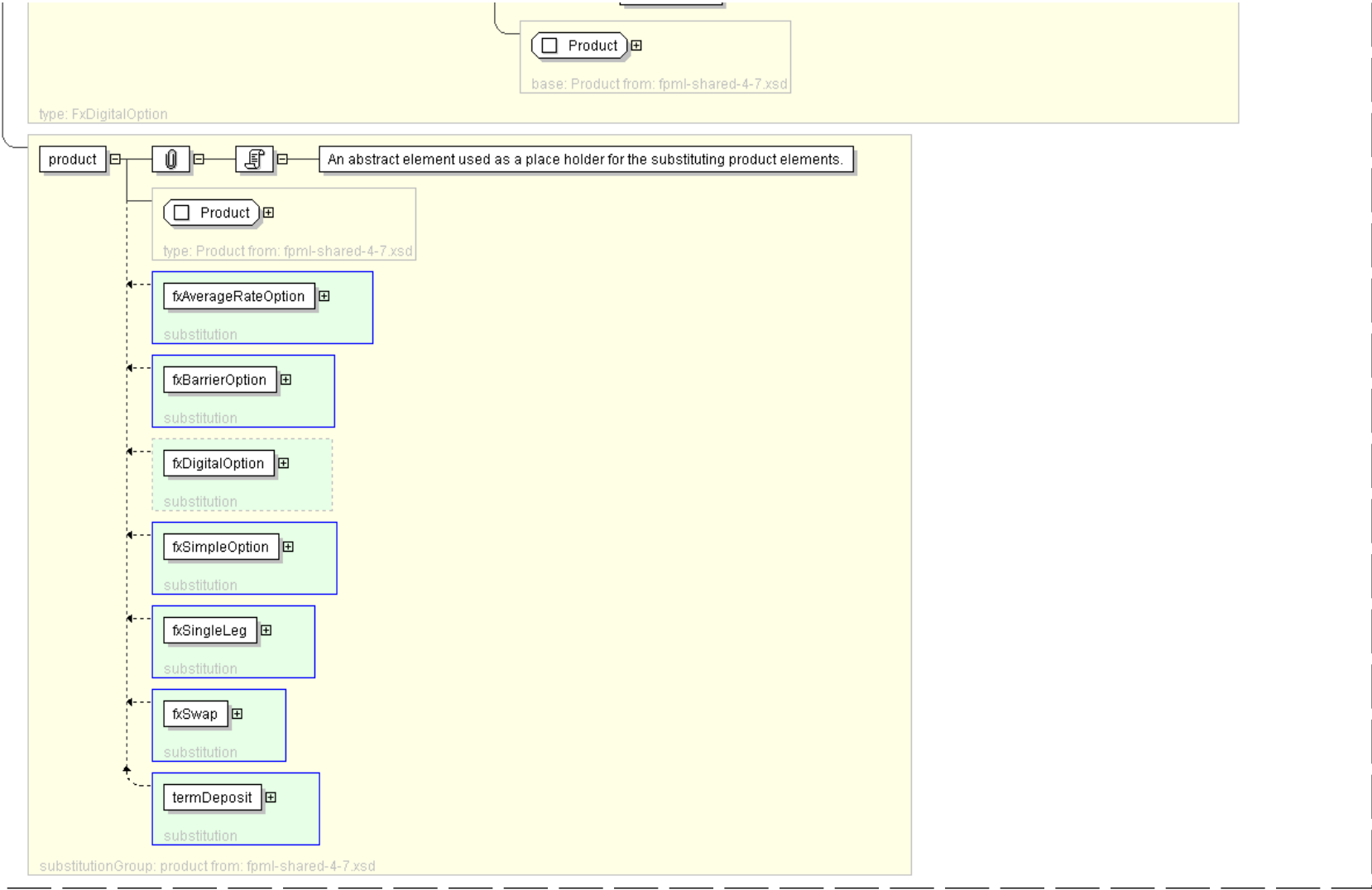
```
<triggerPayout> FxOptionPayout </triggerPayout> [1]
```

'The amount of currency which becomes payable if and when a trigger event occurs.'

```
</fxDigitalOption>
```

## Diagram





Schema Component Representation

```
<xsd:element name="fxDigitalOption" type=" FxDigitalOption " substitutionGroup="product"/>
```

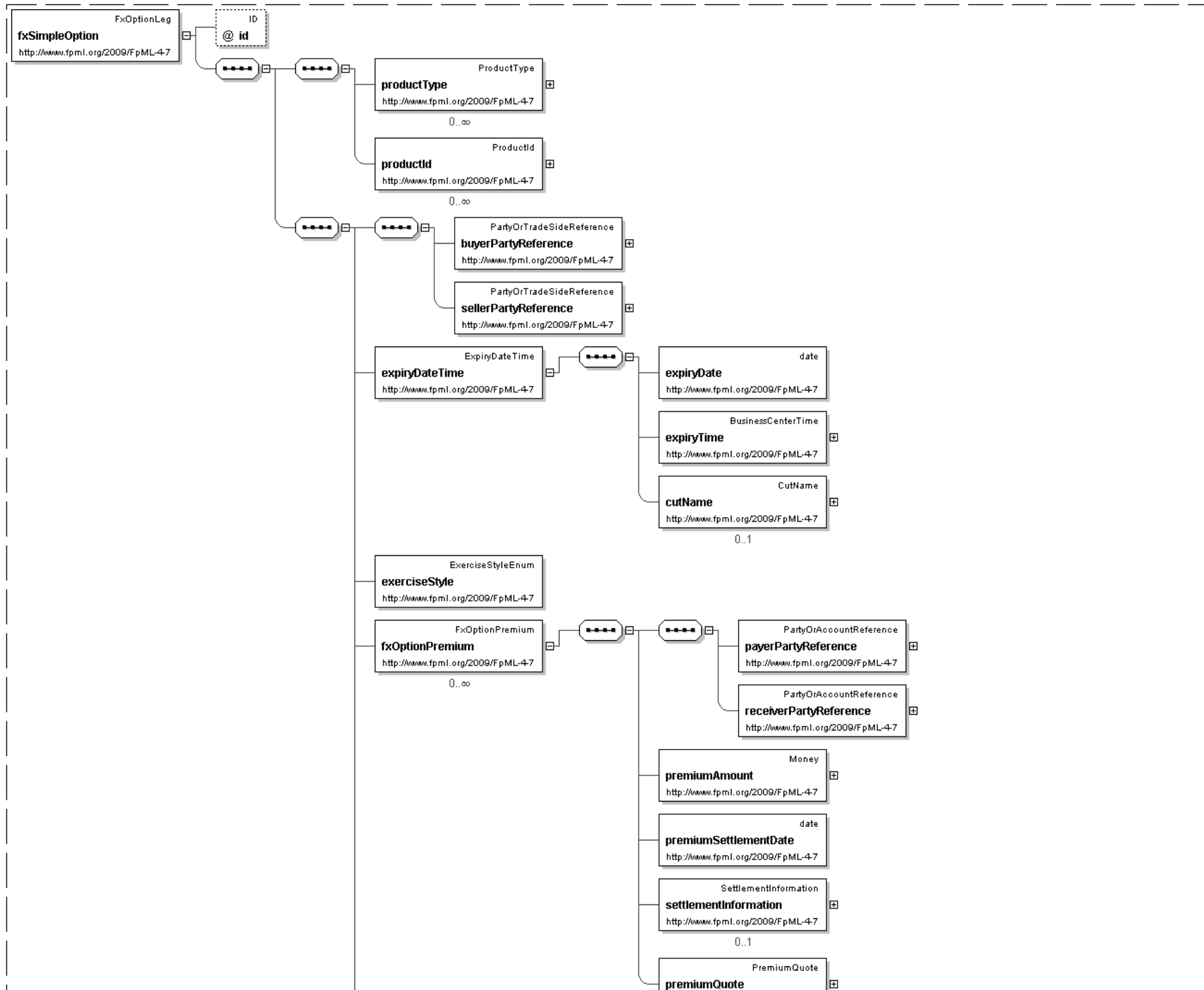
[top](#)

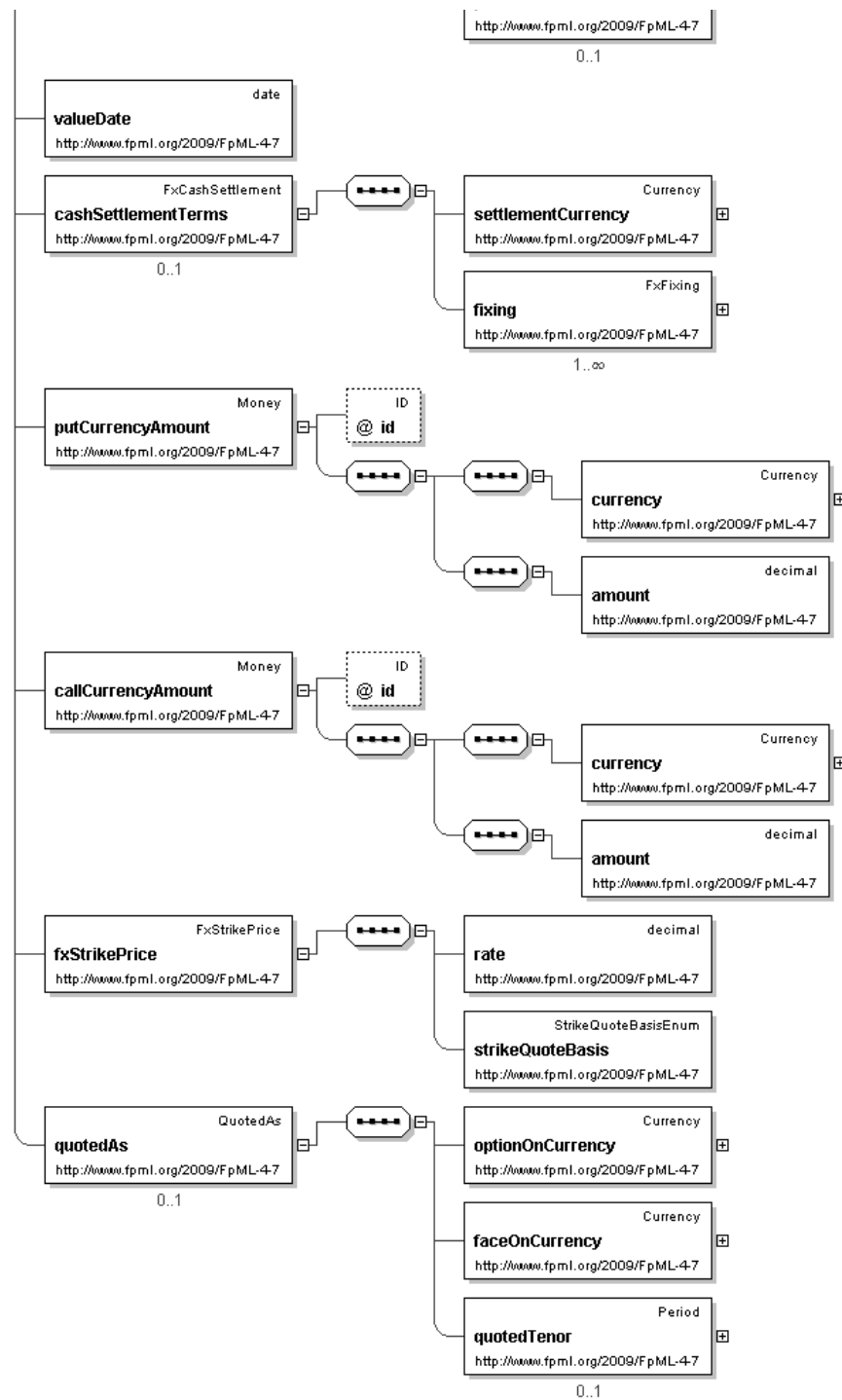
Element: **fxSimpleOption**

- . This element can be used wherever the following element is referenced:
  - o [product](#)

Name	fxSimpleOption
Type	<a href="#">FxOptionLeg</a>
Nilable	no
Abstract	no
Documentation	A component describing a FX Simple Option product

## Logical Diagram





## XML Instance Representation

&lt;FxSimpleOption

```

<id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells (\writes\") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <expiryDateTime> ExpiryDateTime </expiryDateTime> [1]
  'The date and time in a location of the option expiry. In the case of american options this
  is the latest possible expiry date and time.'

  <exerciseStyle> ExerciseStyleEnum </exerciseStyle> [1]
  'The manner in which the option can be exercised.'

  <fxOptionPremium> FxOptionPremium </fxOptionPremium> [0..*]
  'Premium amount or premium installment amount for an option.'

  <valueDate> xsd:date </valueDate> [1]
  'The date on which both currencies traded will settle.'

  <cashSettlementTerms> FxCashSettlement </cashSettlementTerms> [0..1]
  'This optional element is only used if an option has been specified at execution time to
  be settled into a single cash payment. This would be used for a non-deliverable option.'

  <putCurrencyAmount> Money </putCurrencyAmount> [1]
  'The currency amount that the option gives the right to sell.'

  <callCurrencyAmount> Money </callCurrencyAmount> [1]
  'The currency amount that the option gives the right to buy.'

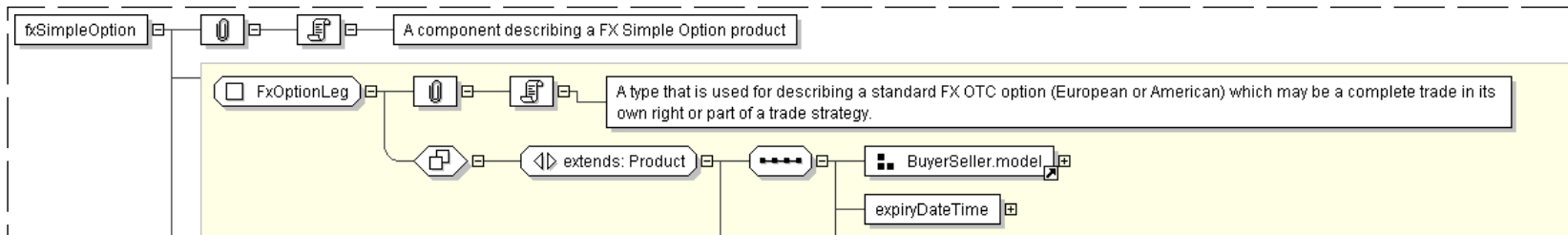
  <fxStrikePrice> FxStrikePrice </fxStrikePrice> [1]
  'TBA'

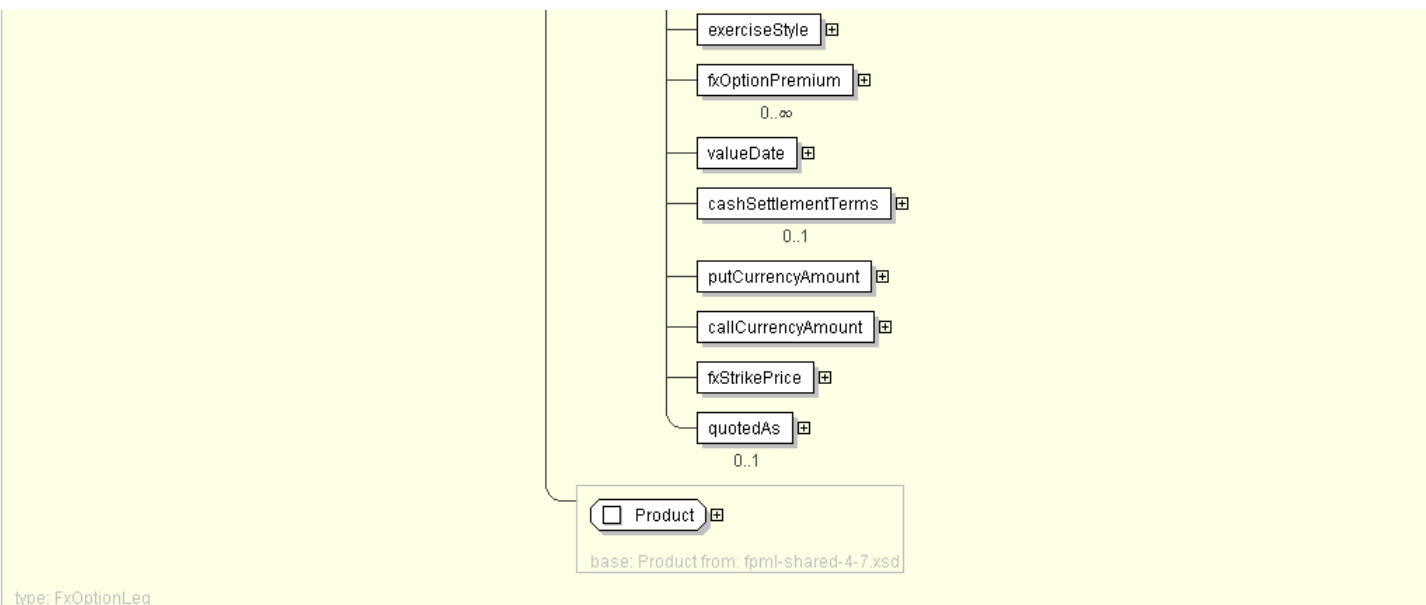
  <quotedAs> QuotedAs </quotedAs> [0..1]
  'Describes how the option was quoted.'

</fxSimpleOption>

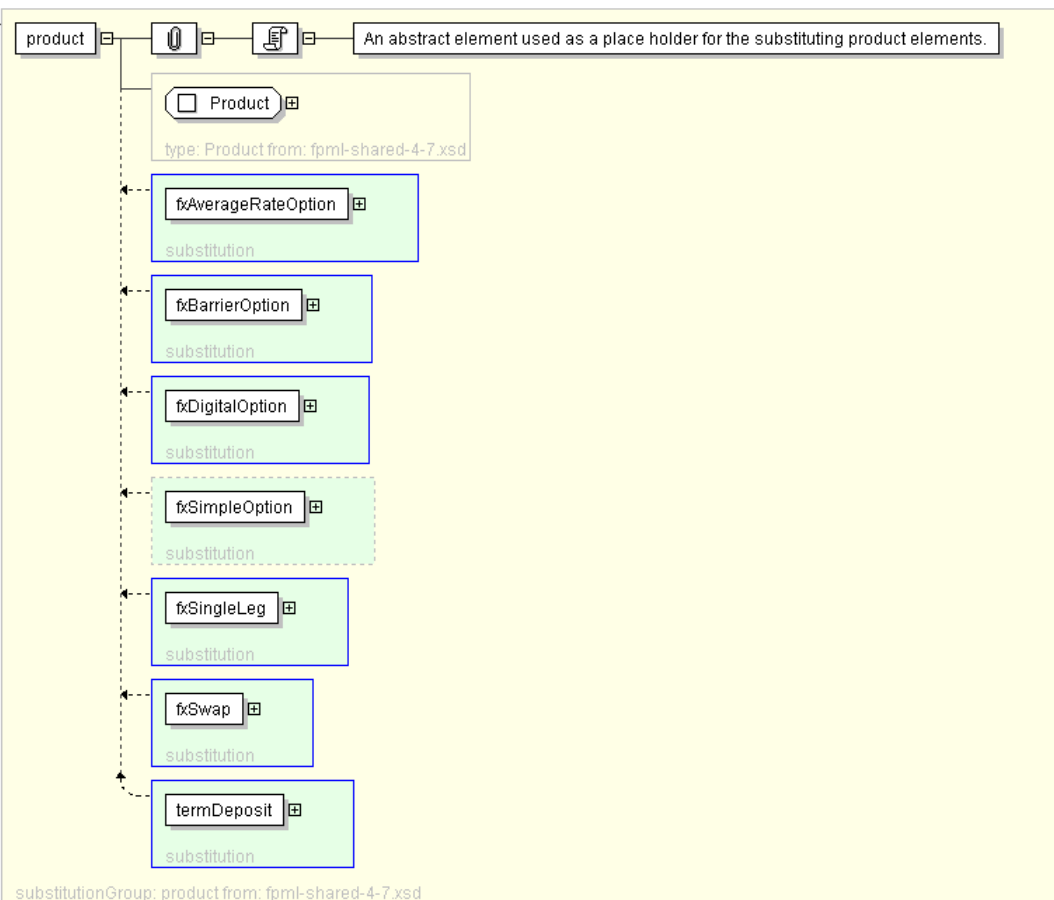
```

## Diagram





type: FxOptionLeg



Schema Component Representation

```
<xsd:element name="fxSimpleOption" type=" FxOptionLeg " substitutionGroup="product"/>
```

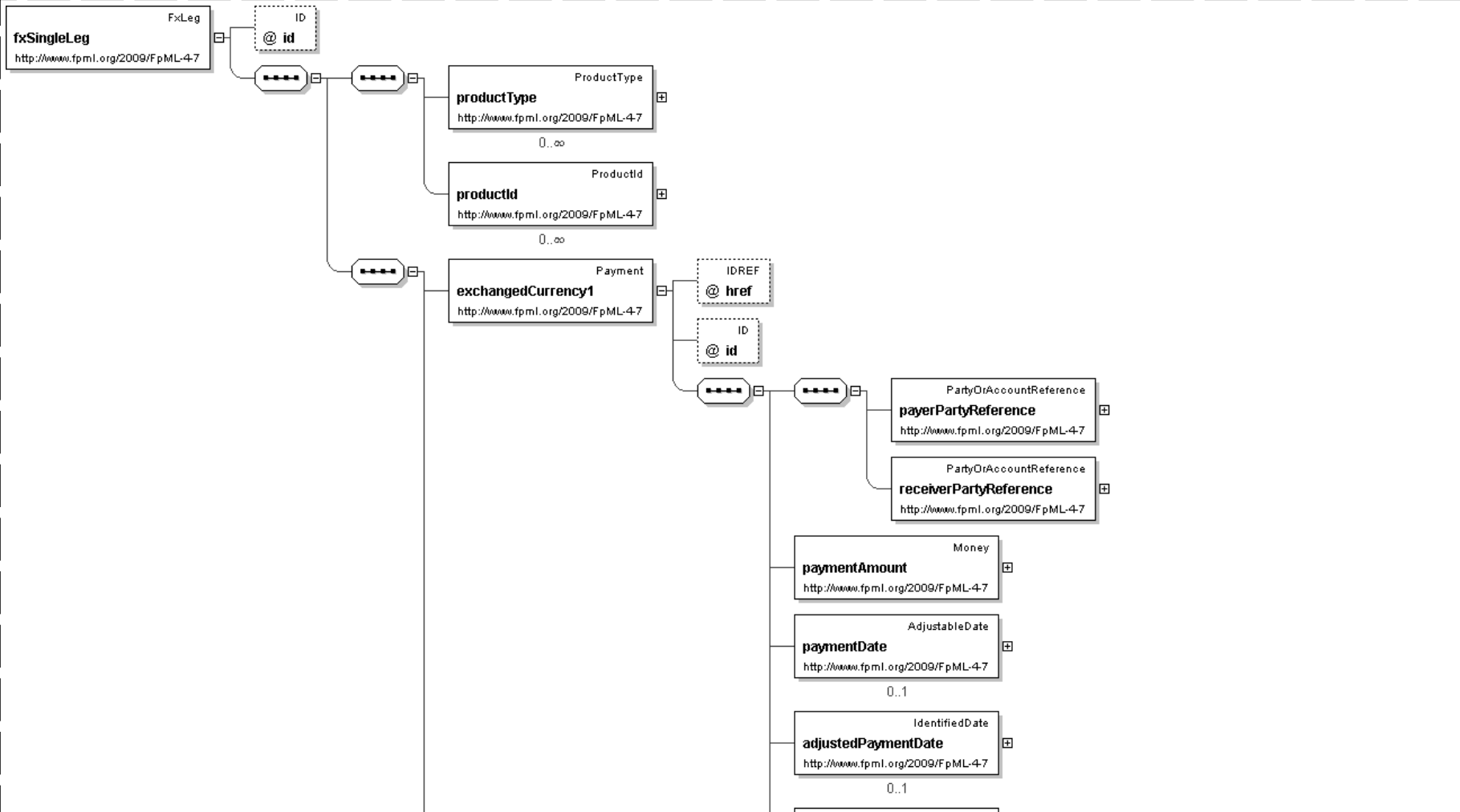
[top](#)

Element: **fxSingleLeg**

- . This element can be used wherever the following element is referenced:
  - o [product](#)

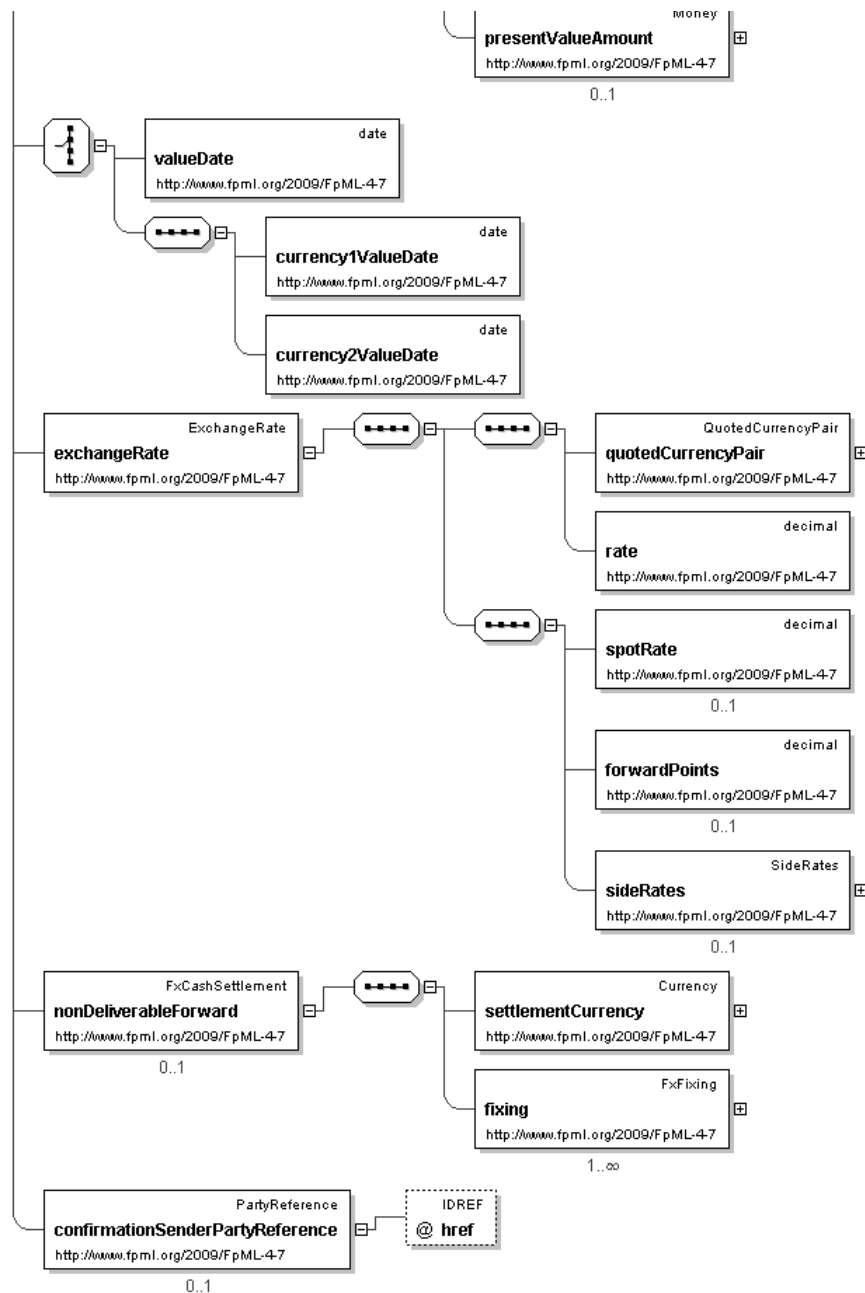
Name	fxSingleLeg
Used by (from the same schema document)	Complex Type <a href="#">FxSwap</a>
Type	<a href="#">FxLeg</a>
Nilable	no
Abstract	no
Documentation	A single-legged FX transaction definition (e.g., spot or forward).

Logical Diagram









### XML Instance Representation

```
<fxSingleLeg
  id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
```

'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

```
<exchangedCurrency1> Payment </exchangedCurrency1> [1]
```

'This is the first of the two currency flows that define a single leg of a standard foreign exchange transaction.'

```
<exchangedCurrency2> Payment </exchangedCurrency2> [1]
```

'This is the second of the two currency flows that define a single leg of a standard foreign exchange transaction.'

Start [Choice](#) [1]

```
<valueDate> xsd:date </valueDate> [1]
```

'The date on which both currencies traded will settle.'

```
<currency1ValueDate> xsd:date </currency1ValueDate> [1]
```

'The date on which the currency1 amount will be settled. To be used in a split value date scenario.'

```
<currency2ValueDate> xsd:date </currency2ValueDate> [1]
```

'The date on which the currency2 amount will be settled. To be used in a split value date scenario.'

End [Choice](#)

```
<exchangeRate> ExchangeRate </exchangeRate> [1]
```

'The rate of exchange between the two currencies.'

```
<nonDeliverableForward> FxCashSettlement </nonDeliverableForward> [0..1]
```

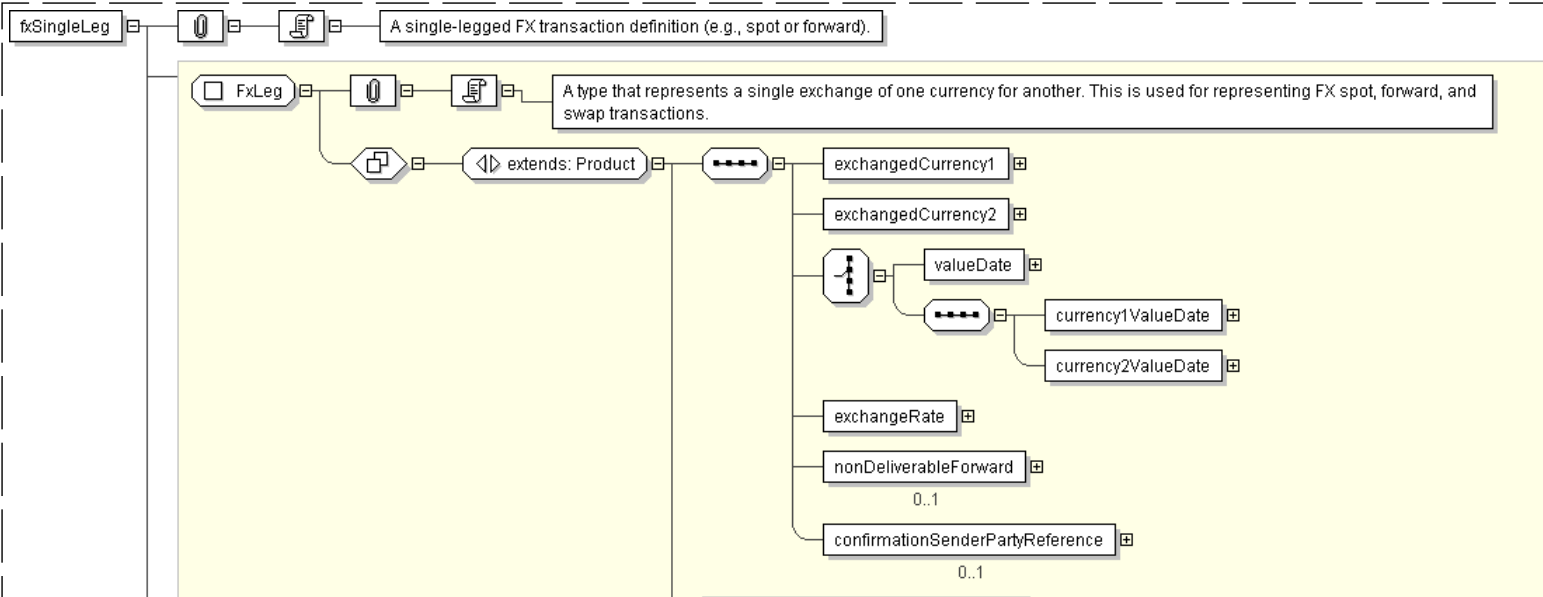
'Used to describe a particular type of FX forward transaction that is settled in a single currency.'

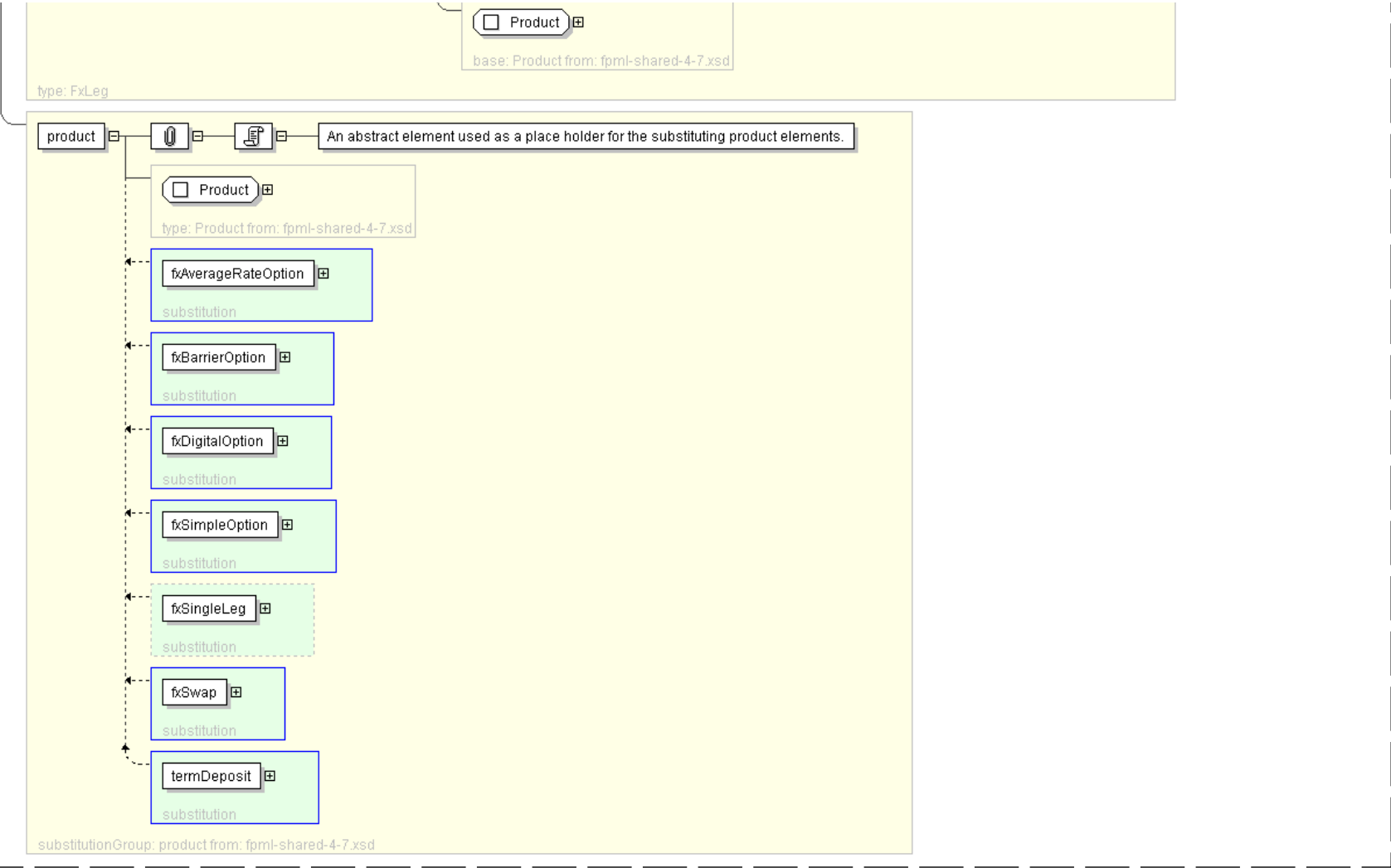
```
<confirmationSenderPartyReference> PartyReference </confirmationSenderPartyReference> [0..1]
```

'A reference to the party that is sending the current document as a confirmation of the trade.'

```
</fxSingleLeg>
```

## Diagram





Schema Component Representation

```
<xsd:element name="fxSingleLeg" type=" FxLeg " substitutionGroup="product"/>
```

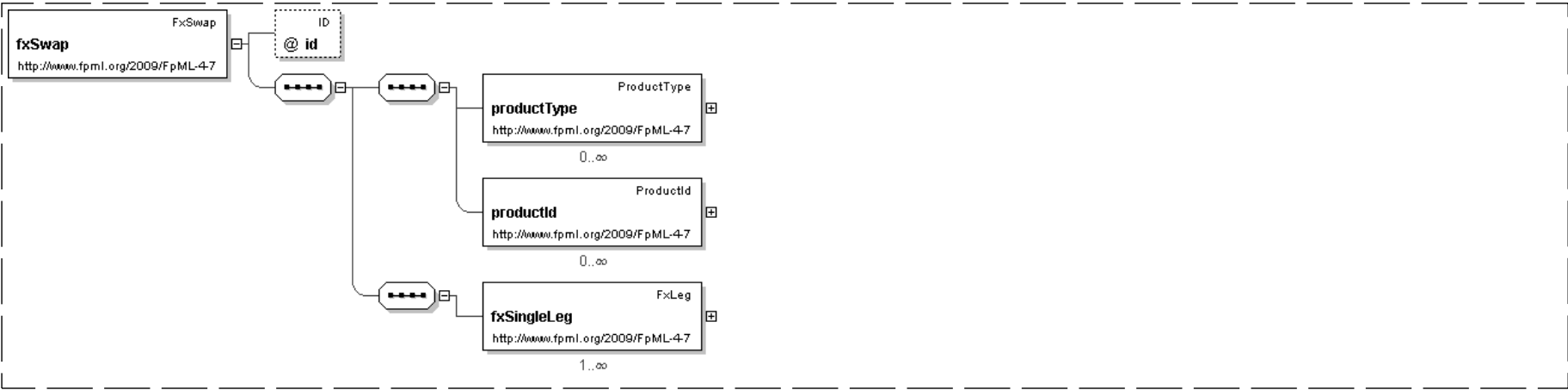
[top](#)

Element: fxSwap

- . This element can be used wherever the following element is referenced:
  - o [product](#)

Name	fxSwap
Type	<a href="#">FxSwap</a>
Nilable	no
Abstract	no
Documentation	A component describing a FX Swap product.

Logical Diagram



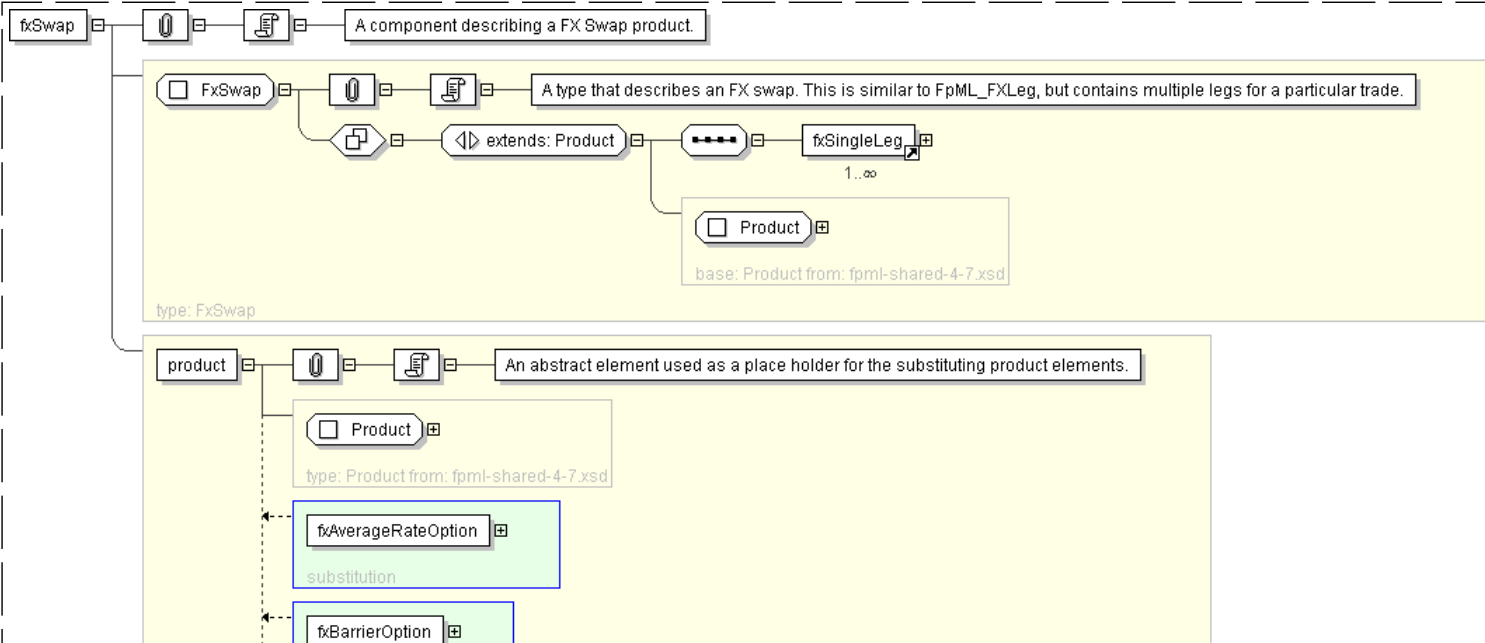
XML Instance Representation

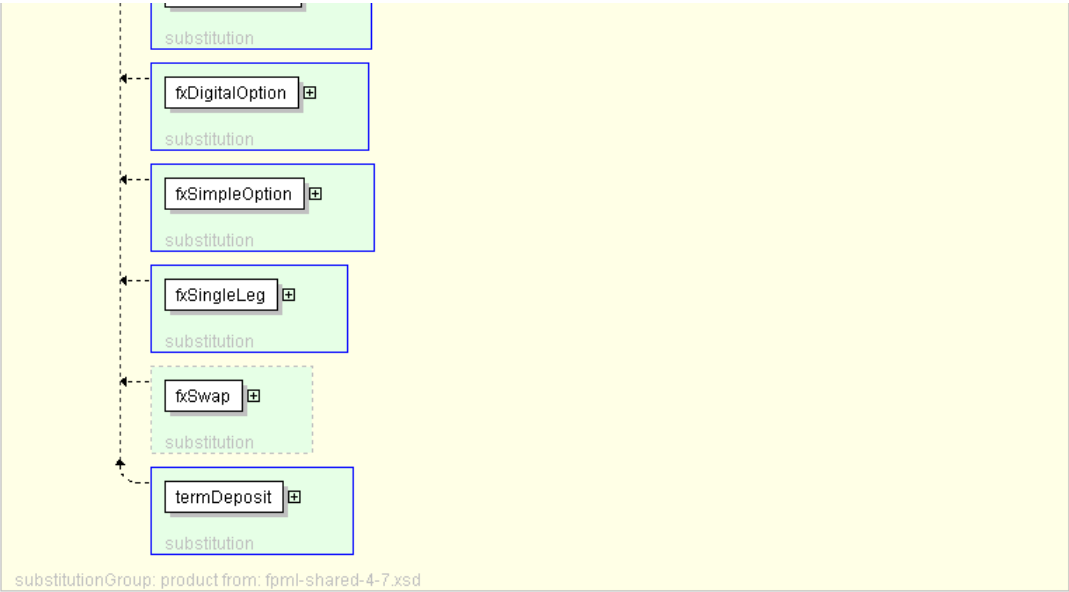
```
<fxSwap
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <fxSingleLeg> ... </fxSingleLeg> [1..*]
</fxSwap>
```

Diagram





Schema Component Representation

```
<xsd:element name="fxSwap" type=" FxSwap " substitutionGroup="product"/>
```

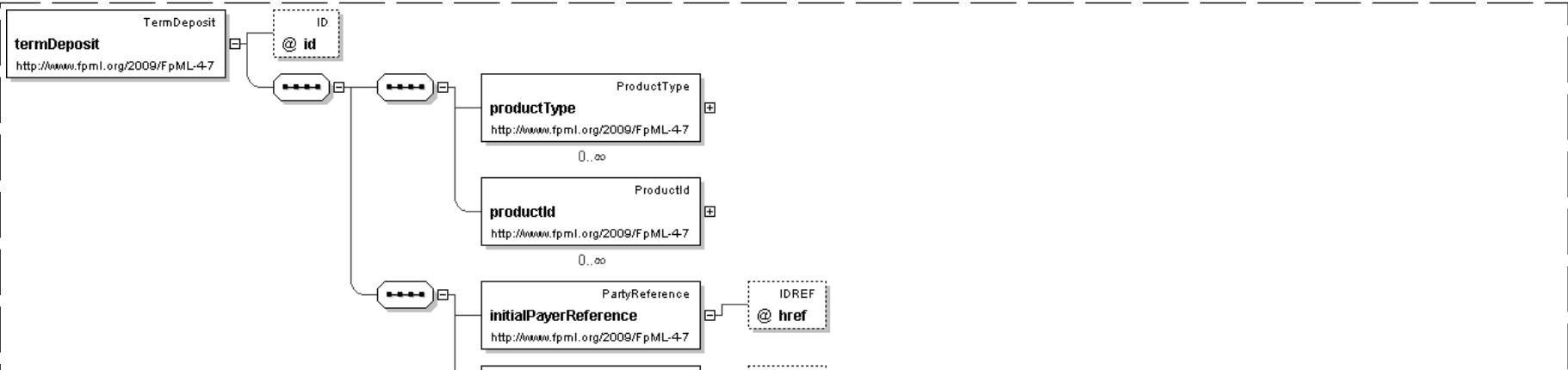
[top](#)

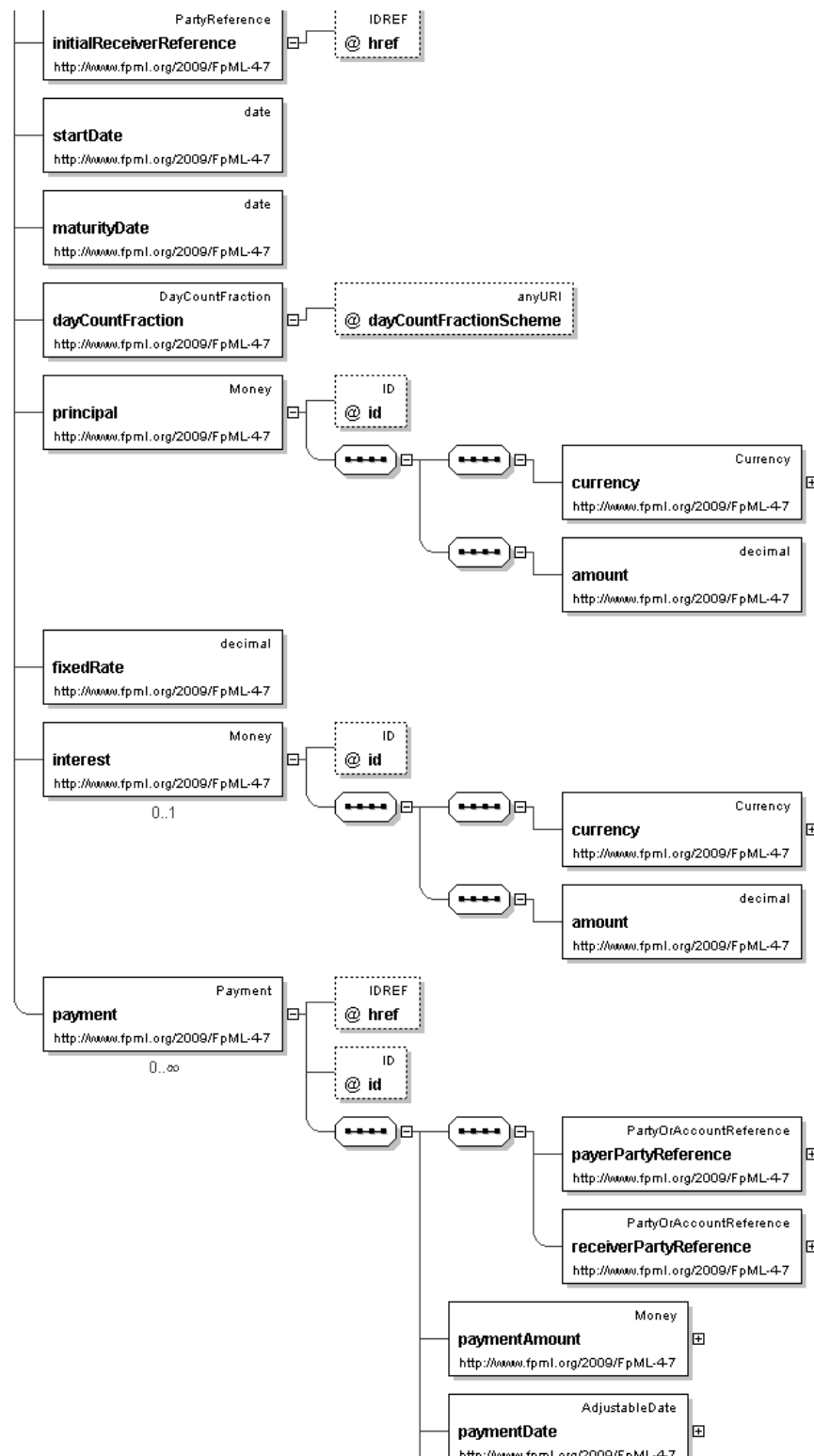
Element: **termDeposit**

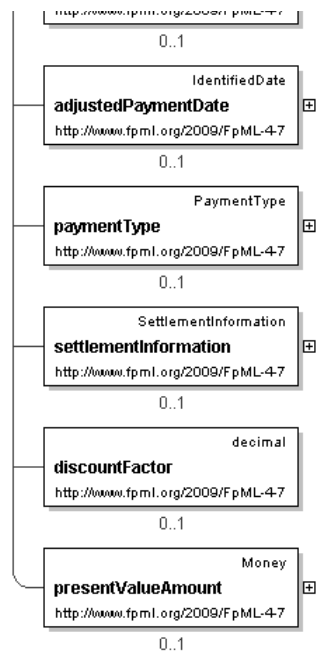
- This element can be used wherever the following element is referenced:
  - [product](#)

Name	termDeposit
Type	<a href="#">TermDeposit</a>
Niltable	no
Abstract	no
Documentation	A term deposit product definition.

Logical Diagram







#### XML Instance Representation

```
<termDeposit
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <initialPayerReference> PartyReference </initialPayerReference> [1]
  'A pointer style reference to a party identifier defined elsewhere in the document. The
  party referenced is the payer of the initial principal of the deposit on the start date.'

  <initialReceiverReference> PartyReference </initialReceiverReference> [1]
  'A pointer style reference to a party identifier defined elsewhere in the document. The
  party is the receiver of the initial principal of the deposit on the start date.'

  <startDate> xsd:date </startDate> [1]
  'The averaging period start date.'

  <maturityDate> xsd:date </maturityDate> [1]
  'The end date of the calculation period. This date should already be adjusted for
  any applicable business day convention.'

  <dayCountFraction> DayCountFraction </dayCountFraction> [1]
  'The day count fraction.'

  <principal> Money </principal> [1]
  'The principal amount of the trade.'

  <fixedRate> xsd:decimal </fixedRate> [1]
```



'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate of 5% would be represented as 0.05.'

<interest> Money </interest> [0..1]

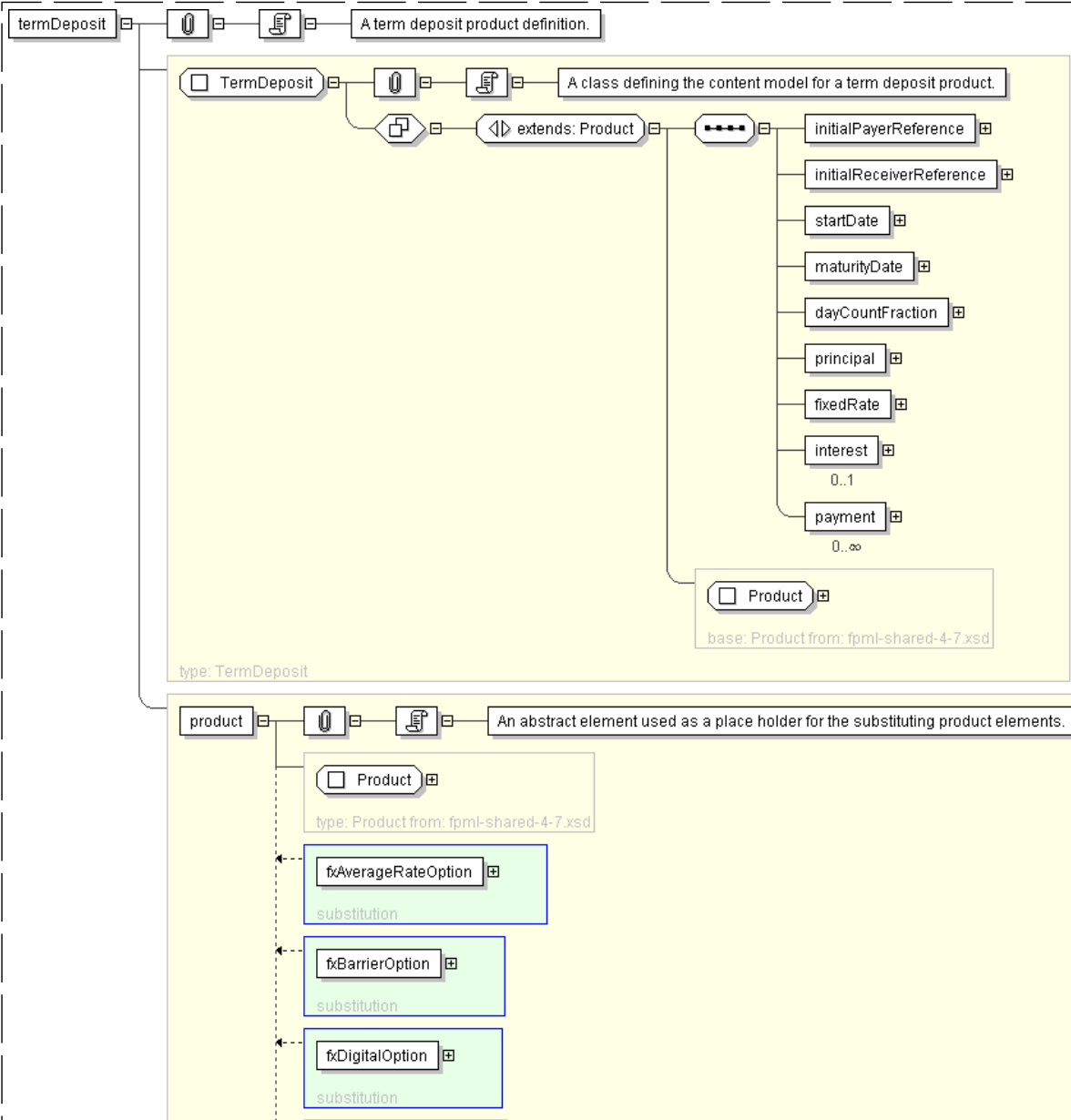
'The total interest of at maturity of the trade.'

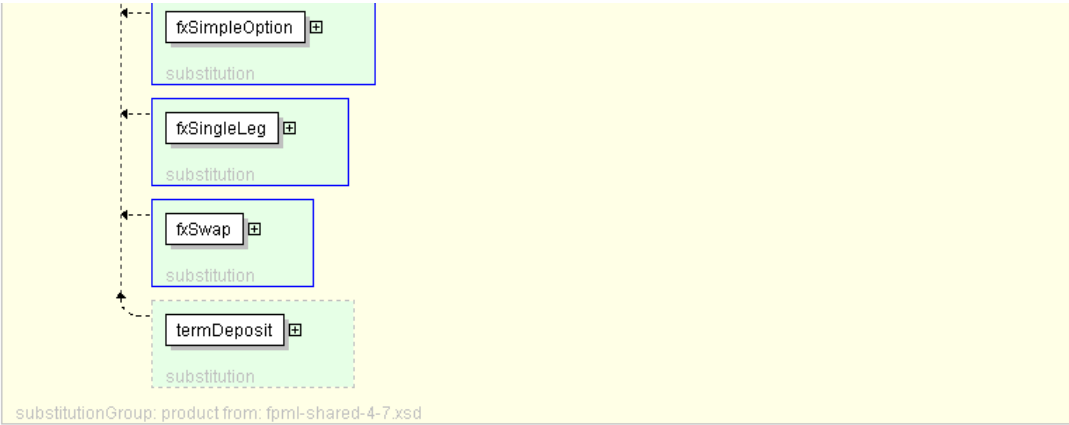
<payment> Payment </payment> [0..\*]

'A known payment between two parties.'

</termDeposit>

## Diagram





Schema Component Representation

```
<xsd:element name="termDeposit" type="TermDeposit" substitutionGroup="product"/>
```

[top](#)

Global Definitions

Complex Type: **CutName**

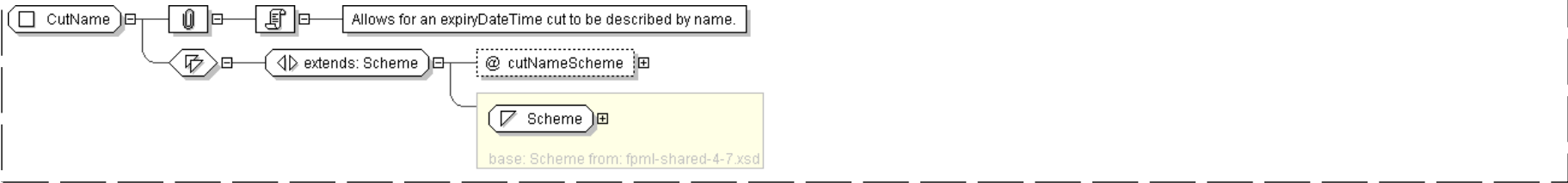
Super-types:	<a href="#">Scheme</a> < <b>CutName</b> (by extension)
Sub-types:	None

Name	CutName
Used by (from the same schema document)	Complex Type <a href="#">ExpiryDateTime</a>
Abstract	no
Documentation	Allows for an expiryDateTime cut to be described by name.

XML Instance Representation

```
<...  
cutNameScheme="xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CutName">  
  <xsd:simpleContent>  
    <xsd:extension base="Scheme">  
      <xsd:attribute name="cutNameScheme" type="xsd:anyURI" default="http://www.fpml.org/  
        coding-scheme/cut-name"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **ExchangeRate**

Super-types:	<a href="#">FxRate</a> < <b>ExchangeRate</b> (by extension)
Sub-types:	None
Name	ExchangeRate
Used by (from the same schema document)	Complex Type <a href="#">FxLeg</a>
Abstract	no
Documentation	A type that is used for describing the exchange rate for a particular transaction.

XML Instance Representation

```
<...>
<quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
'Defines the two currencies for an FX trade and the quotation relationship between the
two currencies.'

<rate> xsd:decimal </rate> [1]
'The rate of exchange between the two currencies of the leg of a deal. Must be specified with
a quote basis.'

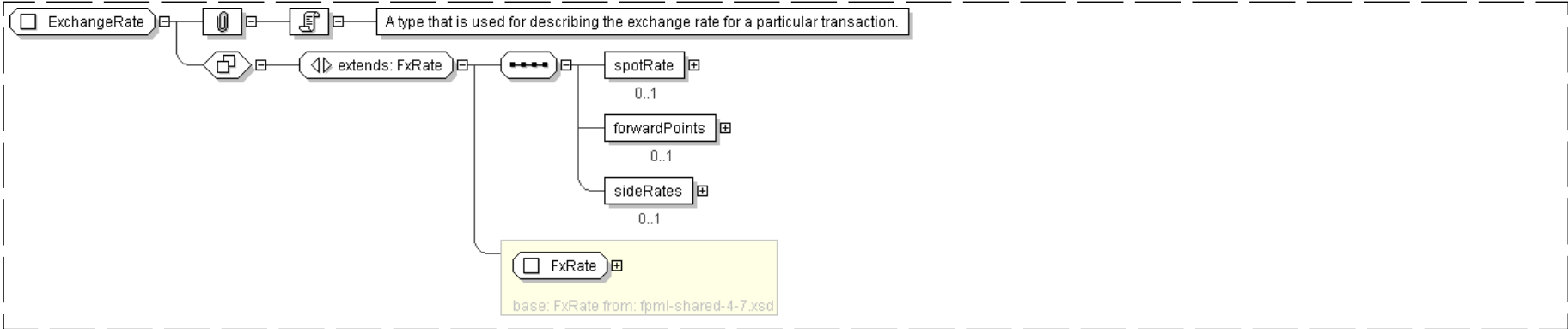
<spotRate> xsd:decimal </spotRate> [0..1]
'An optional element used for FX forwards and certain types of FX OTC options. For
deals consumated in the FX Forwards Market, this represents the current market rate for
a particular currency pair. For barrier and digital/binary options, it can be useful to
include the spot rate at the time the option was executed to make it easier to know whether
the option needs to move \"up\" or \"down\" to be triggered.'

<forwardPoints> xsd:decimal </forwardPoints> [0..1]
'An optional element used for deals consumated in the FX Forwards market. Forward
points represent the interest rate differential between the two currencies traded and
are quoted as a premium or a discount. Forward points are added to, or subtracted from,
the spot rate to create the rate of the forward trade.'

<sideRates> SideRates </sideRates> [0..1]
'An optional element that allow for definition of rates against base currency for non-
base currency FX contracts.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExchangeRate">
  <xsd:complexContent>
    <xsd:extension base=" FxRate " >
      <xsd:sequence>
        <xsd:element name="spotRate" type=" xsd:decimal " minOccurs="0"/>
        <xsd:element name="forwardPoints" type=" xsd:decimal " minOccurs="0"/>
        <xsd:element name="sideRates" type=" SideRates " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ExpiryDateTime**

Super-types:	None
Sub-types:	None
Name	ExpiryDateTime
Used by (from the same schema document)	Complex Type <a href="#">FxAverageRateOption</a> , Complex Type <a href="#">FxDigitalOption</a> , Complex Type <a href="#">FxOptionLeg</a>
Abstract	no
Documentation	A type that describes the date and time in a location of the option expiry. In the case of American options this is the latest possible expiry date and time.

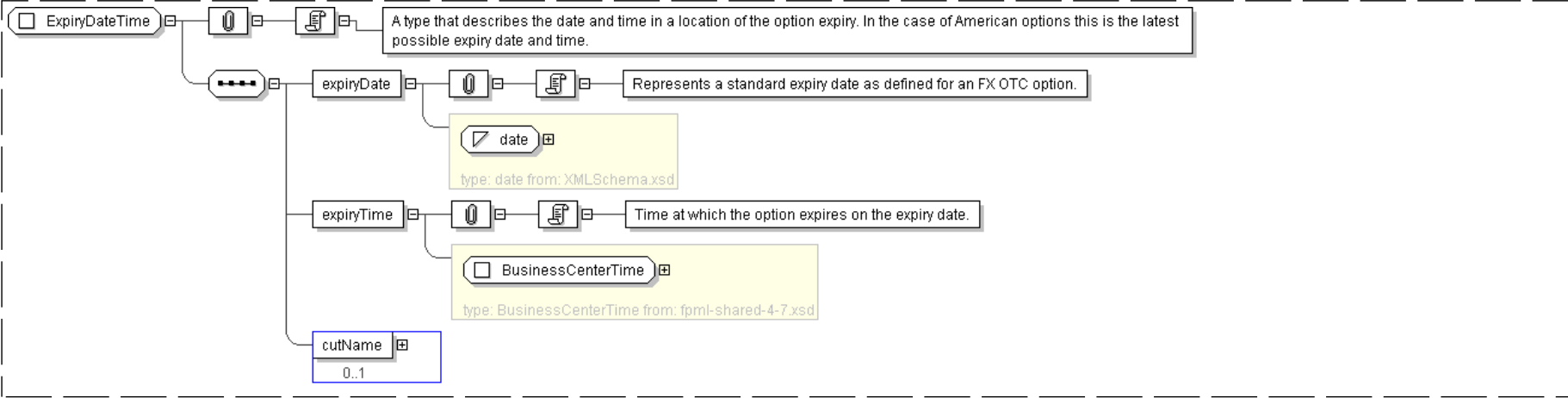
XML Instance Representation

```
<...>
  <expiryDate> xsd:date </expiryDate> [1]
  'Represents a standard expiry date as defined for an FX OTC option.'

  <expiryTime> BusinessCenterTime </expiryTime> [1]
  'Time at which the option expires on the expiry date.'

  <cutName> CutName </cutName> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExpiryDateTime">
  <xsd:sequence>
```

```
<xsd:element name="expiryDate" type=" xsd:date " />
<xsd:element name="expiryTime" type=" BusinessCenterTime " />
<xsd:element name="cutName" type=" CutName " minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FxAmericanTrigger**

Super-types:	None
Sub-types:	None
Name	FxAmericanTrigger
Used by (from the same schema document)	Complex Type <a href="#">FxDigitalOption</a>
Abstract	no
Documentation	A tyoe that defines a particular type of payout in an FX OTC exotic option. An American trigger occurs if the trigger criteria are met at any time from the initiation to the maturity of the option.

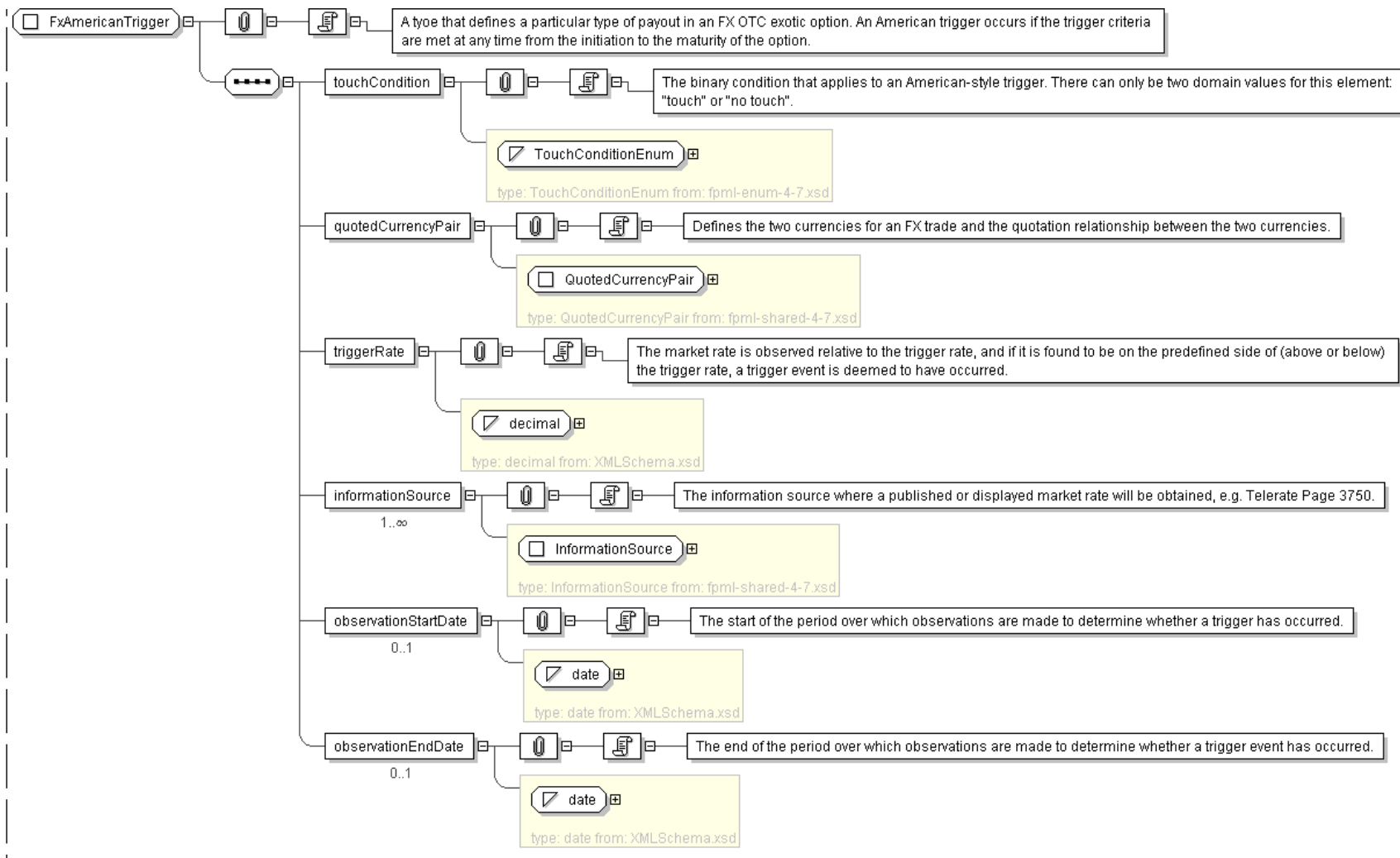
XML Instance Representation

```
<...>
<touchCondition> TouchConditionEnum </touchCondition> [1]
'The binary condition that applies to an American-style trigger. There can only be two
domain values for this element: \"touch\" or \"no touch\".'QuotedCurrencyPair </quotedCurrencyPair> [1]
'Defines the two currencies for an FX trade and the quotation relationship between the
two currencies.'

<triggerRate> xsd:decimal </triggerRate> [1]
'The market rate is observed relative to the trigger rate, and if it is found to be on
the predefined side of (above or below) the trigger rate, a trigger event is deemed to
have occurred.'

<informationSource> InformationSource </informationSource> [1..*]
'The information source where a published or displayed market rate will be obtained, e.
g. Telerate Page 3750.'
```

Diagram



#### Schema Component Representation

```
<xsd:complexType name="FxAmericanTrigger">
  <xsd:sequence>
    <xsd:element name="touchCondition" type="TouchConditionEnum"/>
    <xsd:element name="quotedCurrencyPair" type="QuotedCurrencyPair"/>
    <xsd:element name="triggerRate" type="xsd:decimal"/>
    <xsd:element name="informationSource" type="InformationSource" maxOccurs="unbounded"/>
    <xsd:element name="observationStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="observationEndDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

#### Complex Type: FxAverageRateObservationDate

Super-types: None  
Sub-types: None

Name	FxAverageRateObservationDate
Used by (from the same schema document)	Complex Type <a href="#">FxAverageRateOption</a>
Abstract	no
Documentation	A type that, for average rate options, is used to describe each specific observation date, as opposed to a parametric frequency of rate observations.

XML Instance Representation

<...>

<observationDate> xsd:date </observationDate> [1]

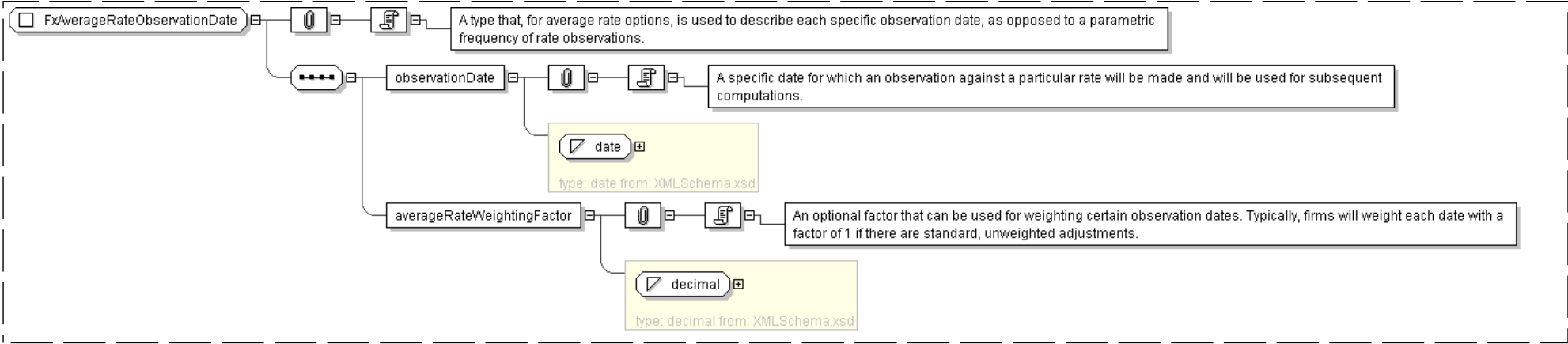
'A specific date for which an observation against a particular rate will be made and will be used for subsequent computations.'

<averageRateWeightingFactor> xsd:decimal </averageRateWeightingFactor> [1]

'An optional factor that can be used for weighting certain observation dates. Typically, firms will weight each date with a factor of 1 if there are standard, unweighted adjustments.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FxAverageRateObservationDate">
  <xsd:sequence>
    <xsd:element name="observationDate" type=" xsd:date " />
    <xsd:element name="averageRateWeightingFactor" type=" xsd:decimal " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FxAverageRateObservationSchedule**

Super-types:	None
Sub-types:	None
Name	FxAverageRateObservationSchedule
Used by (from the same schema document)	Complex Type <a href="#">FxAverageRateOption</a>
Abstract	no
Documentation	A type that describes average rate options rate observations. This is used to describe a parametric frequency of rate observations against a particular rate. Typical frequencies might include daily, every Friday, etc.

XML Instance Representation

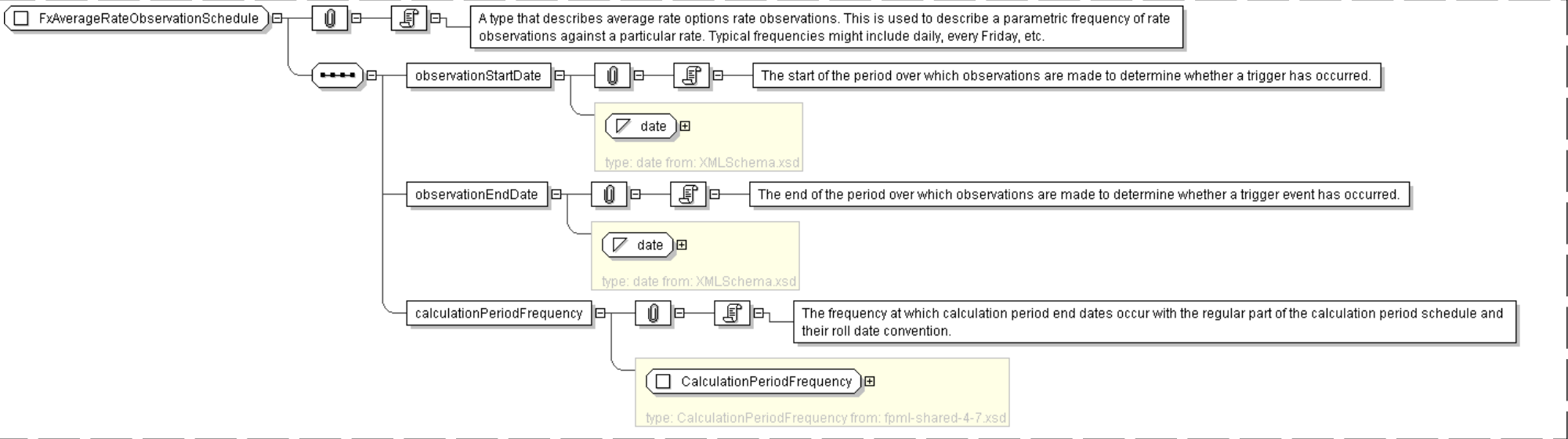
```
<...>
<observationStartDate> xsd:date </observationStartDate> [1]
'The start of the period over which observations are made to determine whether a trigger
has occurred.'

<observationEndDate> xsd:date </observationEndDate> [1]
'The end of the period over which observations are made to determine whether a trigger
event has occurred.'

<calculationPeriodFrequency> CalculationPeriodFrequency </calculationPeriodFrequency> [1]
'The frequency at which calculation period end dates occur with the regular part of
the calculation period schedule and their roll date convention.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxAverageRateObservationSchedule">
  <xsd:sequence>
    <xsd:element name="observationStartDate" type="xsd:date" />
    <xsd:element name="observationEndDate" type="xsd:date" />
    <xsd:element name="calculationPeriodFrequency" type="CalculationPeriodFrequency" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FxAverageRateOption**

Super-types:	<a href="#">Product</a> < <b>FxAverageRateOption</b> (by extension)
Sub-types:	None
Name	FxAverageRateOption
Used by (from the same schema document)	Element <a href="#">fxAverageRateOption</a>
Abstract	no



## Documentation

A type that is used for an option whose payout is based on the average of the price of the underlying over a specific period of time. The payout is the difference between the predetermined, fixed strike price and the average of spot rates observed and is used for hedging against prevailing spot rates over a given time period.

## XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells (\writes\) this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <expiryDateTime> ExpiryDateTime </expiryDateTime> [1]
  'The date and time in a location of the option expiry. In the case of american options this
  is the latest possible expiry date and time.'

  <exerciseStyle> ExerciseStyleEnum </exerciseStyle> [1]
  'The manner in which the option can be exercised.'

  <fxOptionPremium> FxOptionPremium </fxOptionPremium> [0..*]
  'Premium amount or premium installment amount for an option.'

  <valueDate> xsd:date </valueDate> [1]
  'The date on which both currencies traded will settle.'

  <putCurrencyAmount> Money </putCurrencyAmount> [1]
  'The currency amount that the option gives the right to sell.'

  <callCurrencyAmount> Money </callCurrencyAmount> [1]
  'The currency amount that the option gives the right to buy.'

  <fxStrikePrice> FxStrikePrice </fxStrikePrice> [1]
  'TBA'

  <spotRate> xsd:decimal </spotRate> [0..1]
  'An optional element used for FX forwards and certain types of FX OTC options. For
  deals consumated in the FX Forwards Market, this represents the current market rate for
  a particular currency pair. For barrier and digital/binary options, it can be useful to
  include the spot rate at the time the option was executed to make it easier to know whether
  the option needs to move \up\ or \down\ to be triggered.'

  <payoutCurrency> Currency </payoutCurrency> [1]
  'The ISO code of the currency in which a payout (if any) is to be made when a trigger is hit
  on a digital or barrier option.'

  <averageRateQuoteBasis> StrikeQuoteBasisEnum </averageRateQuoteBasis> [1]
  'The method by which the average rate that is being observed is quoted.'
```

```
<precision> xsd:nonNegativeInteger </precision> [0..1]
'Specifies the rounding precision in terms of a number of decimal places. Note how a
percentage rate rounding of 5 decimal places is expressed as a rounding precision of 7 in
the FpML document since the percentage is expressed as a decimal, e.g. 9.876543%
(or 0.09876543) being rounded to the nearest 5 decimal places is 9.87654% (or 0.0987654).'

<payoutFormula> xsd:string </payoutFormula> [0..1]
'The description of the mathematical computation for how the payout is computed.'

<primaryRateSource> InformationSource </primaryRateSource> [1]
'The primary source for where the rate observation will occur. Will typically be either a
page or a reference bank published rate.'

<secondaryRateSource> InformationSource </secondaryRateSource> [0..1]
'An alternative, or secondary, source for where the rate observation will occur. Will
typically be either a page or a reference bank published rate.'

<fixingTime> BusinessCenterTime </fixingTime> [1]
'The time at which the spot currency exchange rate will be observed. It is specified as a
time in a specific business center, e.g. 11:00am London time.'

Start Choice [1]
  <averageRateObservationSchedule> FxAverageRateObservationSchedule
  </averageRateObservationSchedule> [1]
  'Parametric schedule of rate observations.'

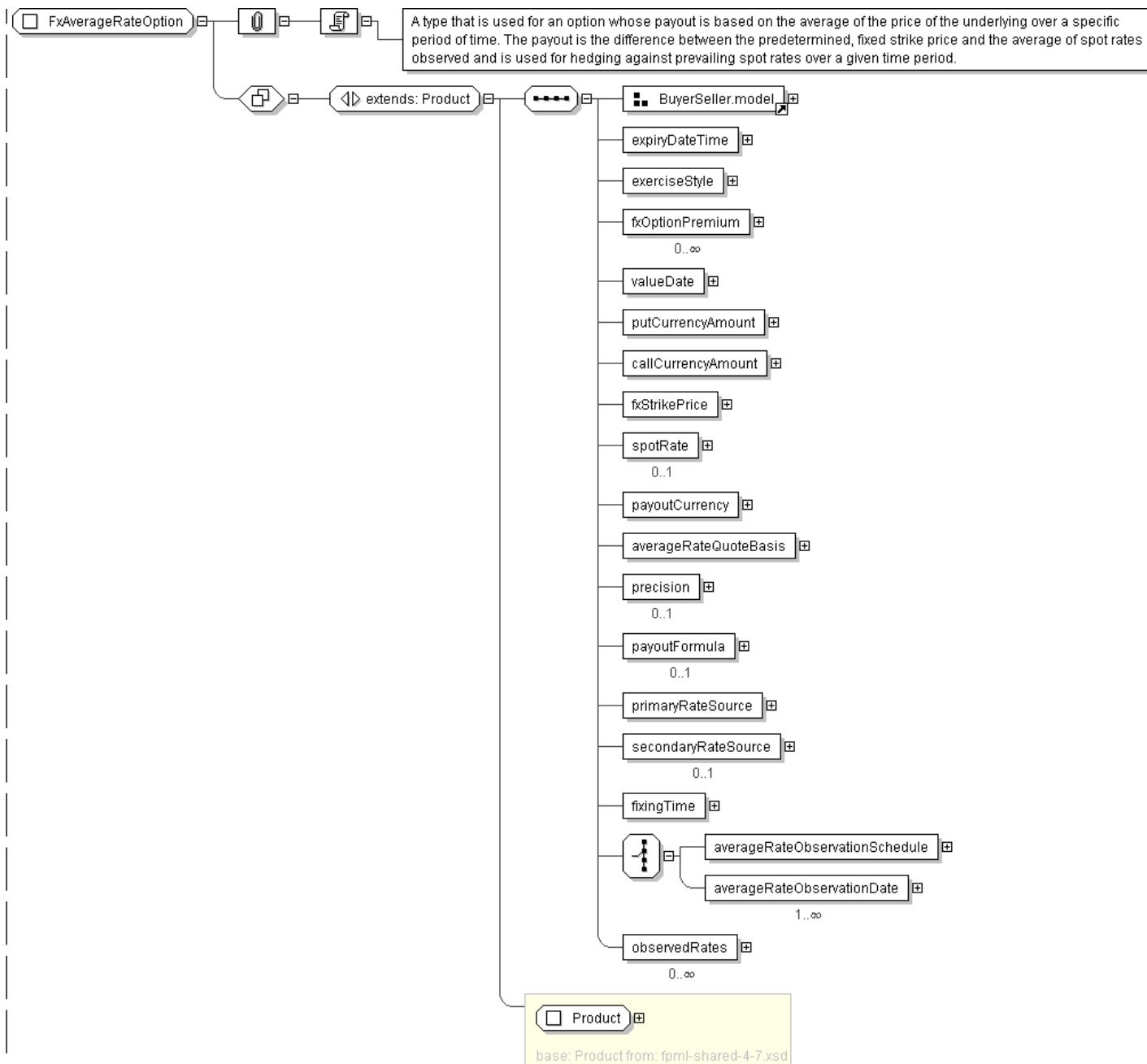
  <averageRateObservationDate> FxAverageRateObservationDate </averageRateObservationDate> [1..*]
  'One of more specific rate observation dates.'

End Choice

<observedRates> ObservedRates </observedRates> [0..*]
'Describes prior rate observations within average rate options. Periodically, an average
rate option agreement will be struck whereby some rates have already been observed in the
past but will become part of computation of the average rate of the option. This
structure provides for these previously observed rates to be included in the description of
the trade.'

</...>
```

Diagram



#### Schema Component Representation

```

<xsd:complexType name="FxAverageRateOption">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:group ref="BuyerSeller.model"/>
        <xsd:element name="expiryDateTime" type="ExpiryDateTime"/>
        <xsd:element name="exerciseStyle" type="ExerciseStyleEnum"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>

```

```
<xsd:element name="fxOptionPremium" type=" FxOptionPremium "
minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="valueDate" type=" xsd:date " />
<xsd:element name="putCurrencyAmount" type=" Money " />
<xsd:element name="callCurrencyAmount" type=" Money " />
<xsd:element name="fxStrikePrice" type=" FxStrikePrice " />
<xsd:element name="spotRate" type=" xsd:decimal " minOccurs="0"/>
<xsd:element name="payoutCurrency" type=" Currency " />
<xsd:element name="averageRateQuoteBasis" type=" StrikeQuoteBasisEnum " />
<xsd:element name="precision" type=" xsd:nonNegativeInteger " minOccurs="0"/>
<xsd:element name="payoutFormula" type=" xsd:string " minOccurs="0"/>
<xsd:element name="primaryRateSource" type=" InformationSource " />
<xsd:element name="secondaryRateSource" type=" InformationSource " minOccurs="0"/>
<xsd:element name="fixingTime" type=" BusinessCenterTime " />
<xsd:choice>
  <xsd:element name="averageRateObservationSchedule" type=" FxAverageRateObservationSchedule " />
  <xsd:element name="averageRateObservationDate" type=" FxAverageRateObservationDate "
    maxOccurs="unbounded"/>
</xsd:choice>
<xsd:element name="observedRates" type=" ObservedRates " minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **FxBarrier**

Super-types:	None
Sub-types:	None

Name	FxBarrier
Used by (from the same schema document)	Complex Type <a href="#">FxBarrierOption</a>
Abstract	no
Documentation	A type that is used within the FX barrier option definition to define one or more barrier levels that determine whether the option will be knocked-in or knocked-out.

XML Instance Representation

```
<...>
  <fxBarrierType> FxBarrierTypeEnum </fxBarrierType> [0..1]
  'This specifies whether the option becomes effective ("knock-in") or is annulled ("knock-out") when the respective trigger event occurs.'

  <quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
  'Defines the two currencies for an FX trade and the quotation relationship between the two currencies.'

  <triggerRate> xsd:decimal </triggerRate> [1]
  'The market rate is observed relative to the trigger rate, and if it is found to be on the predefined side of (above or below) the trigger rate, a trigger event is deemed to have occurred.'

  <informationSource> InformationSource </informationSource> [1..*]
  'The information source where a published or displayed market rate will be obtained, e.g. Telerate Page 3750.'

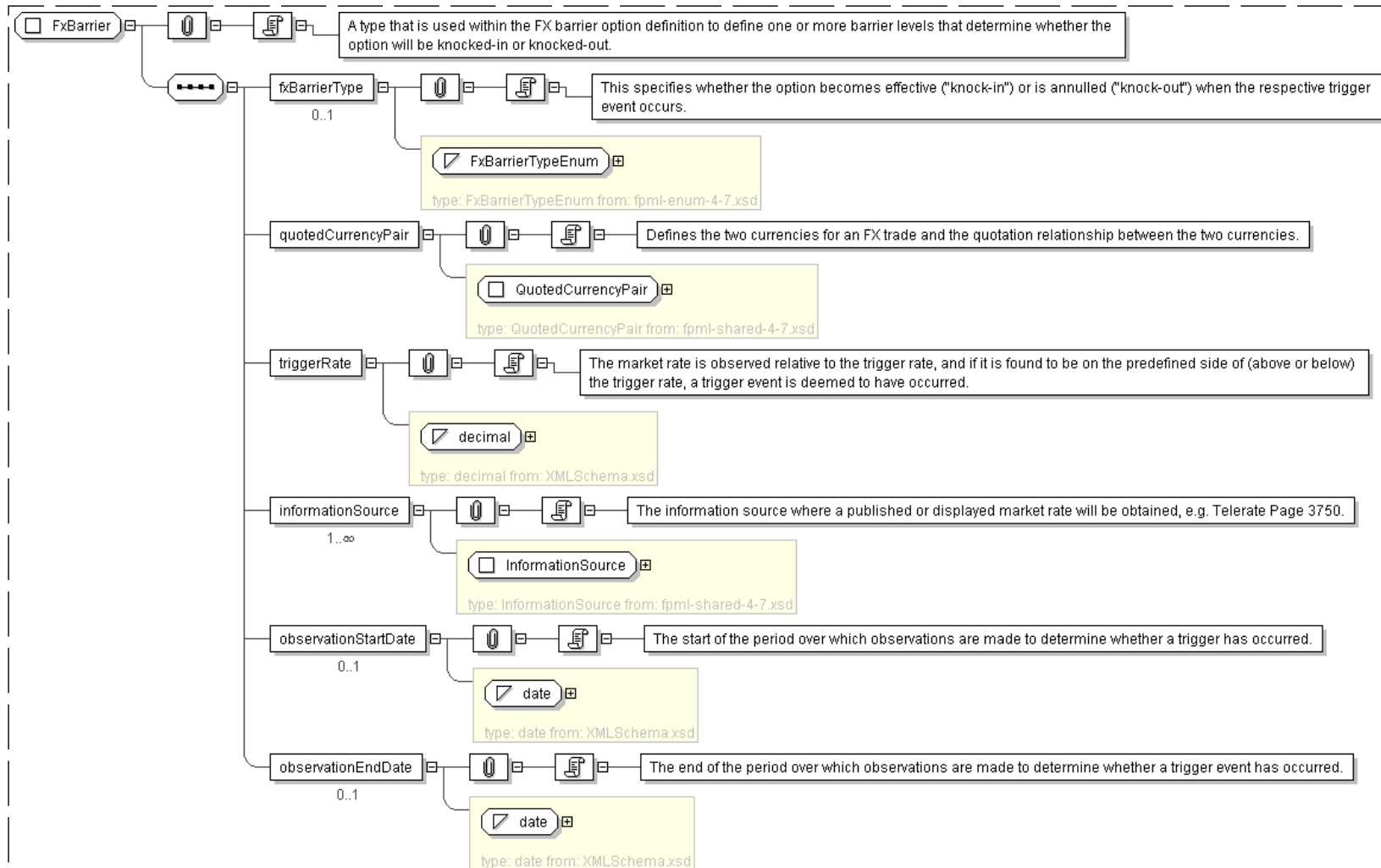
  <observationStartDate> xsd:date </observationStartDate> [0..1]
  'The start of the period over which observations are made to determine whether a trigger has occurred.'

  <observationEndDate> xsd:date </observationEndDate> [0..1]
```

'The end of the period over which observations are made to determine whether a trigger event has occurred.'

</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="FxBarrier">
  <xsd:sequence>
    <xsd:element name="fxBarrierType" type="FxBarrierTypeEnum" minOccurs="0"/>
    <xsd:element name="quotedCurrencyPair" type="QuotedCurrencyPair" minOccurs="0"/>
    <xsd:element name="triggerRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="informationSource" type="InformationSource" maxOccurs="unbounded"/>
    <xsd:element name="observationStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="observationEndDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **FxBarrierOption**

<i>Super-types:</i>	<a href="#">Product</a> < <a href="#">FxOptionLeg</a> (by extension) < <b>FxBarrierOption</b> (by extension)
<i>Sub-types:</i>	None

<b>Name</b>	FxBarrierOption
<b>Used by (from the same schema document)</b>	Element <a href="#">fxBarrierOption</a>
<b><u>Abstract</u></b>	no
<b>Documentation</b>	A type that describes an option with a put/call component, but also one or more associated barrier rates. If the market rate moves to reach a barrier rate a trigger event occurs. The trigger event may for example be necessary to enable the option, or may annul the option contract. [Since the barriers reduce the probability of exercise, the premium for an option with barriers is likely to be cheaper than one without].

### XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<productType> ProductType </productType> [0..*]
'A classification of the type of product. FpML defines a simple product categorization using
a coding scheme.'

<productId> ProductId </productId> [0..*]
'A product reference identifier allocated by a party. FpML does not define the domain
values associated with this element. Note that the domain values for this element are
not strictly an enumerated list.'

<buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
'A reference to the party that buys this instrument, ie. pays for this instrument and
receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
of FRAs this the fixed rate payer.'

<sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
'A reference to the party that sells ("writes") this instrument, i.e. that grants the
rights defined by this instrument and in return receives a payment for it. See 2000
ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

<expiryDateTime> ExpiryDateTime </expiryDateTime> [1]
'The date and time in a location of the option expiry. In the case of american options this
is the latest possible expiry date and time.'

<exerciseStyle> ExerciseStyleEnum </exerciseStyle> [1]
'The manner in which the option can be exercised.'

<fxOptionPremium> FxOptionPremium </fxOptionPremium> [0..*]
'Premium amount or premium installment amount for an option.'

<valueDate> xsd:date </valueDate> [1]
'The date on which both currencies traded will settle.'

<cashSettlementTerms> FxCashSettlement </cashSettlementTerms> [0..1]
'This optional element is only used if an option has been specified at execution time to
be settled into a single cash payment. This would be used for a non-deliverable option.'

<putCurrencyAmount> Money </putCurrencyAmount> [1]
'The currency amount that the option gives the right to sell.'

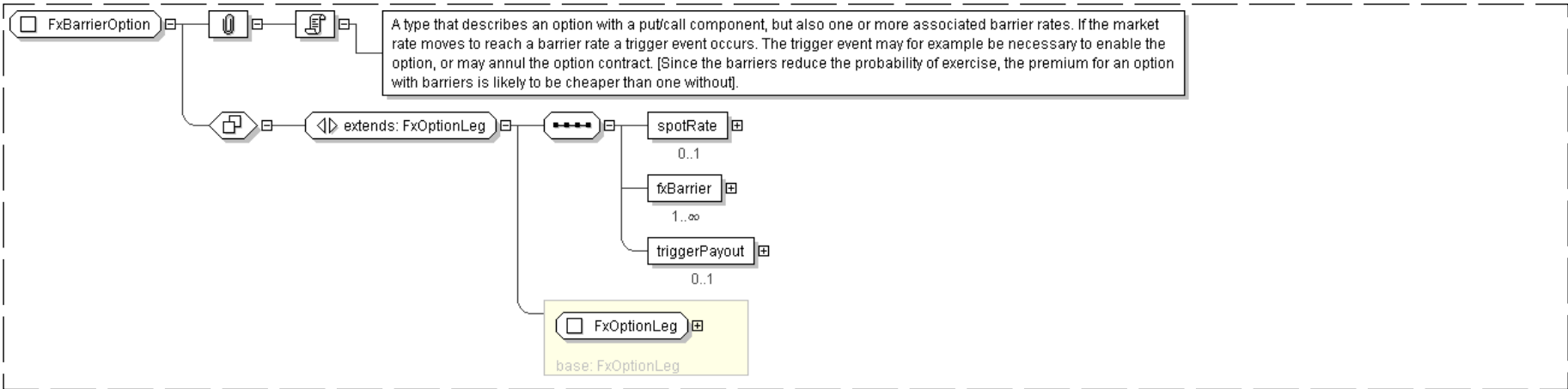
<callCurrencyAmount> Money </callCurrencyAmount> [1]
'The currency amount that the option gives the right to buy.'

<fxStrikePrice> FxStrikePrice </fxStrikePrice> [1]
'TBA'
```

```
<quotedAs> QuotedAs </quotedAs> [0..1]
'Describes how the option was quoted.'

<spotRate> xsd:decimal </spotRate> [0..1]
'An optional element used for FX forwards and certain types of FX OTC options. For
deals consumated in the FX Forwards Market, this represents the current market rate for
a particular currency pair. For barrier and digital/binary options, it can be useful to
include the spot rate at the time the option was executed to make it easier to know whether
the option needs to move \"up\" or \"down\" to be triggered.'FxBarrier </fxBarrier> [1..*]
'Information about a barrier rate in a Barrier Option - specifying the exact criteria for
a trigger event to occur.'FxOptionPayout </triggerPayout> [0..1]
'The amount of currency which becomes payable if and when a trigger event occurs.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxBarrierOption">
  <xsd:complexContent>
    <xsd:extension base=" FxOptionLeg " >
      <xsd:sequence>
        <xsd:element name="spotRate" type=" xsd:decimal " minOccurs="0"/>
        <xsd:element name="fxBarrier" type=" FxBarrier " maxOccurs="unbounded"/>
        <xsd:element name="triggerPayout" type=" FxOptionPayout " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxDigitalOption**

Super-types:	<a href="#">Product</a> < <b>FxDigitalOption</b> (by extension)
Sub-types:	None
Name	FxDigitalOption

Used by (from the same schema document)	Element <a href="#">fxDigitalOption</a>
Abstract	no
Documentation	A type that describes an option without a put/call component (and so no associated exercise), but with one or more trigger rates) Examples are "one-touch", "no-touch", and "double-no-touch" options. For a specified period the market rate is observed relative to the trigger rates, and on a trigger event a fixed payout may become due to the buyer of the option, or alternatively the option contract may be annulled.

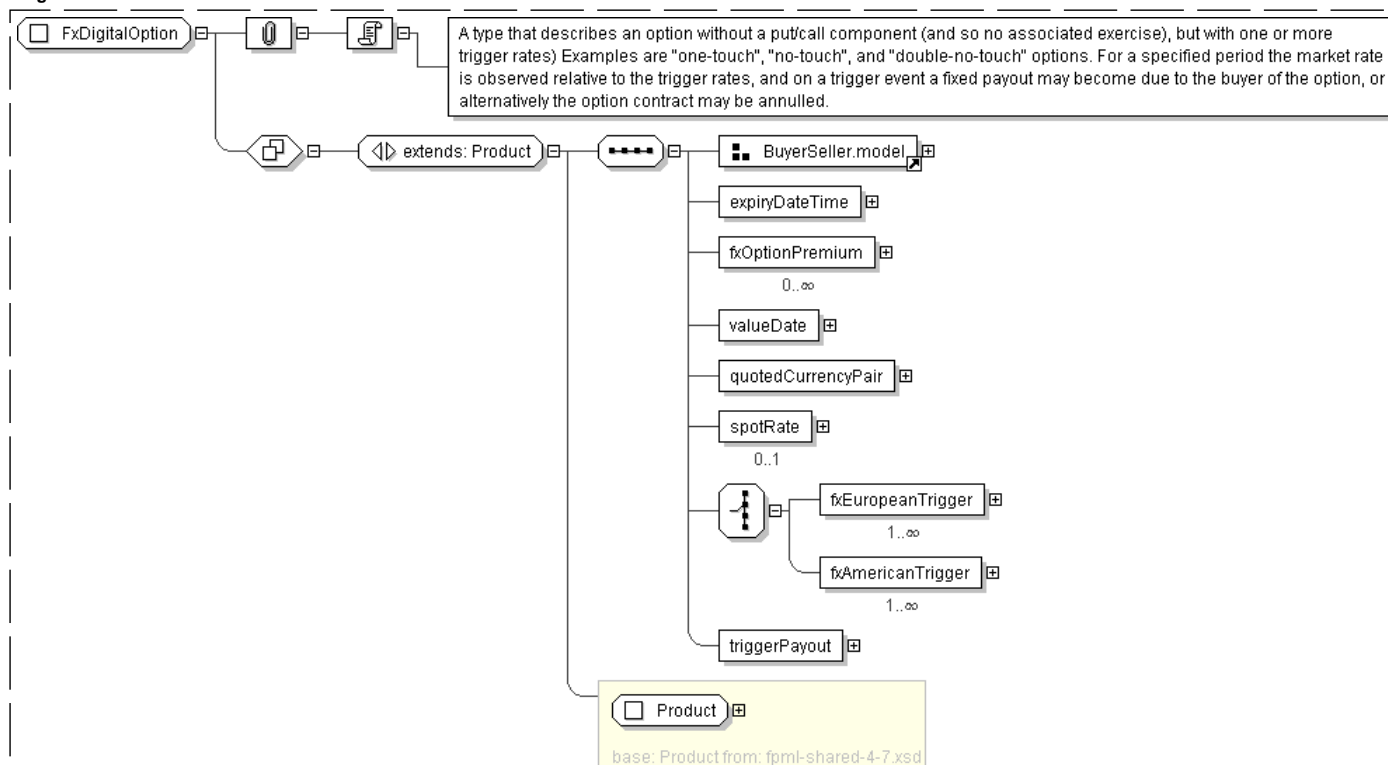
XML Instance Representation

<div>&lt;... id=" <a href="#">xsd:ID</a> [0..1]"&gt;   &lt;productType&gt; <a href="#">ProductType</a> &lt;/productType&gt; [0..*]     'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'   &lt;productId&gt; <a href="#">ProductId</a> &lt;/productId&gt; [0..*]     'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'   &lt;buyerPartyReference&gt; <a href="#">PartyOrTradeSideReference</a> &lt;/buyerPartyReference&gt; [1]     'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'   &lt;sellerPartyReference&gt; <a href="#">PartyOrTradeSideReference</a> &lt;/sellerPartyReference&gt; [1]     'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'   &lt;expiryDateTime&gt; <a href="#">ExpiryDateTime</a> &lt;/expiryDateTime&gt; [1]     'The date and time in a location of the option expiry. In the case of american options this is the latest possible expiry date and time.'   &lt;fxOptionPremium&gt; <a href="#">FxOptionPremium</a> &lt;/fxOptionPremium&gt; [0..*]     'Premium amount or premium installment amount for an option.'   &lt;valueDate&gt; <a href="#">xsd:date</a> &lt;/valueDate&gt; [1]     'The date on which both currencies traded will settle.'   &lt;quotedCurrencyPair&gt; <a href="#">QuotedCurrencyPair</a> &lt;/quotedCurrencyPair&gt; [1]     'Defines the two currencies for an FX trade and the quotation relationship between the two currencies.'   &lt;spotRate&gt; <a href="#">xsd:decimal</a> &lt;/spotRate&gt; [0..1]     'An optional element used for FX forwards and certain types of FX OTC options. For deals consumated in the FX Forwards Market, this represents the current market rate for a particular currency pair. For barrier and digital/binary options, it can be useful to include the spot rate at the time the option was executed to make it easier to know whether the option needs to move "up" or "down" to be triggered.'   Start Choice [1]     &lt;fxEuropeanTrigger&gt; <a href="#">FxEuropeanTrigger</a> &lt;/fxEuropeanTrigger&gt; [1..*]       'A European trigger occurs if the trigger criteria are met, but these are valid (and an observation is made) only at the maturity of the option.'     &lt;fxAmericanTrigger&gt; <a href="#">FxAmericanTrigger</a> &lt;/fxAmericanTrigger&gt; [1..*]       'An American trigger occurs if the trigger criteria are met at any time from the initiation to the maturity of the option.'   End Choice   &lt;triggerPayout&gt; <a href="#">FxOptionPayout</a> &lt;/triggerPayout&gt; [1]     'The amount of currency which becomes payable if and when a trigger event occurs.'</div>
---



&lt;/...&gt;

## Diagram



## Schema Component Representation

```

<xsd:complexType name="FxDigitalOption">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:group ref="BuyerSeller.model"/>
        <xsd:element name="expiryDateTime" type="ExpiryDateTime"/>
        <xsd:element name="fxOptionPremium" type="FxOptionPremium"
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="valueDate" type="xsd:date"/>
        <xsd:element name="quotedCurrencyPair" type="QuotedCurrencyPair"/>
        <xsd:element name="spotRate" type="xsd:decimal" minOccurs="0"/>
        <xsd:choice>
          <xsd:element name="fxEuropeanTrigger" type="FxEuropeanTrigger" maxOccurs="unbounded"/>
          <xsd:element name="fxAmericanTrigger" type="FxAmericanTrigger" maxOccurs="unbounded"/>
        </xsd:choice>
        <xsd:element name="triggerPayout" type="FxOptionPayout"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

[top](#)Complex Type: **FxEuropeanTrigger**

Super-types:	None
Sub-types:	None
Name	FxEuropeanTrigger
Used by (from the same schema document)	Complex Type <a href="#">FxDigitalOption</a>
Abstract	no
Documentation	A type that defines a particular type of payout in an FX OTC exotic option. A European trigger occurs if the trigger criteria are met, but these are valid (and an observation is made) only at the maturity of the option.

XML Instance Representation

```
<...>
  <triggerCondition> TriggerConditionEnum </triggerCondition> [1]
  'The condition that applies to a European-style trigger. It determines where the rate at
  expiry date and time at must be relative to the triggerRate for the option to be
  exercisable. The allowed values are \"Above\" and \"Below\".'

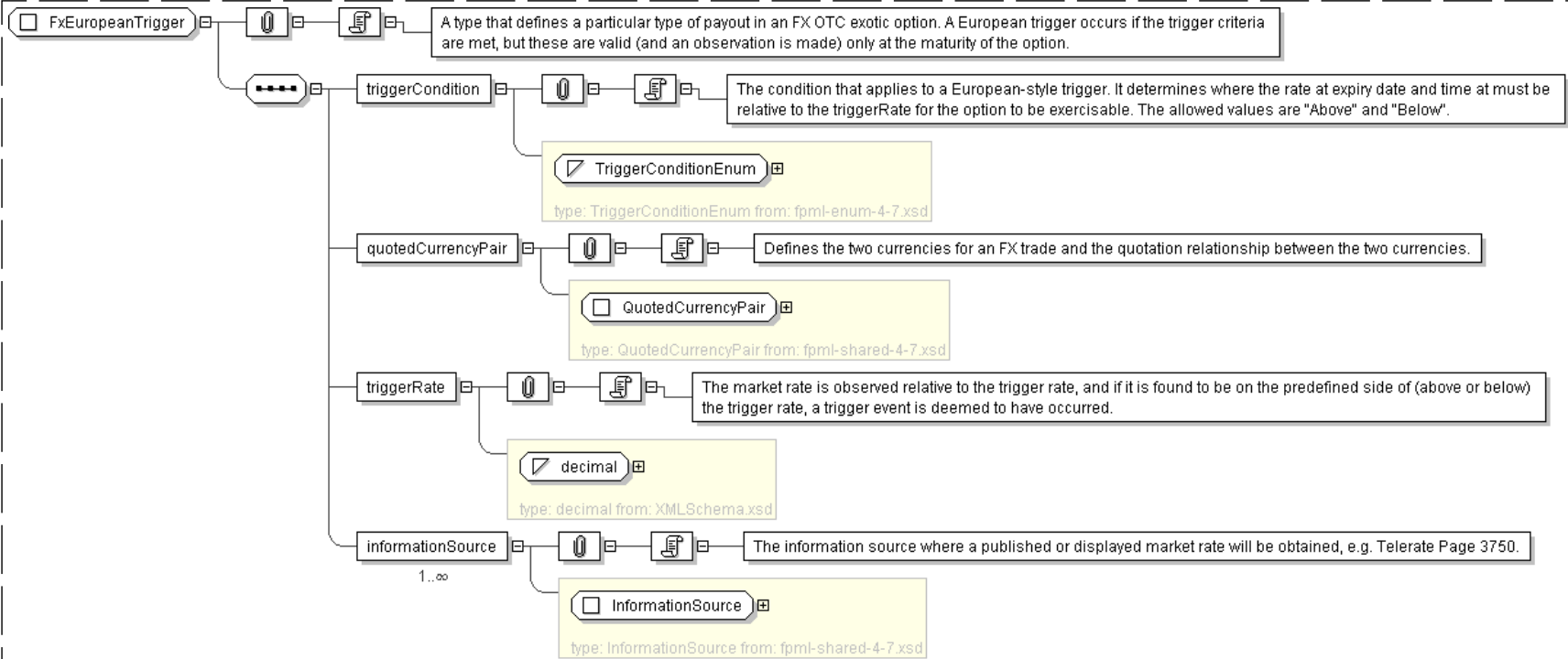
  <quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
  'Defines the two currencies for an FX trade and the quotation relationship between the
  two currencies.'

  <triggerRate> xsd:decimal </triggerRate> [1]
  'The market rate is observed relative to the trigger rate, and if it is found to be on
  the predefined side of (above or below) the trigger rate, a trigger event is deemed to
  have occurred.'

  <informationSource> InformationSource </informationSource> [1..*]
  'The information source where a published or displayed market rate will be obtained, e.
  g. Telerate Page 3750.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxEuropeanTrigger">
  <xsd:sequence>
    <xsd:element name="triggerCondition" type=" TriggerConditionEnum  "/>
    <xsd:element name="quotedCurrencyPair" type=" QuotedCurrencyPair  "/>
    <xsd:element name="triggerRate" type=" xsd:decimal  "/>
    <xsd:element name="informationSource" type=" InformationSource  " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: FxLeg

Super-types:	<a href="#">Product</a> < FxLeg (by extension)
Sub-types:	None

Name	FxLeg
Used by (from the same schema document)	Element <a href="#">fxSingleLeg</a>
Abstract	no
Documentation	A type that represents a single exchange of one currency for another. This is used for representing FX spot, forward, and swap transactions.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]

  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]

  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <exchangedCurrency1> Payment </exchangedCurrency1> [1]

  'This is the first of the two currency flows that define a single leg of a standard
  foreign exchange transaction.'

  <exchangedCurrency2> Payment </exchangedCurrency2> [1]

  'This is the second of the two currency flows that define a single leg of a standard
  foreign exchange transaction.'

  Start Choice [1]
    <valueDate> xsd:date </valueDate> [1]

    'The date on which both currencies traded will settle.'

    <currency1ValueDate> xsd:date </currency1ValueDate> [1]

    'The date on which the currency1 amount will be settled. To be used in a split value
    date scenario.'

    <currency2ValueDate> xsd:date </currency2ValueDate> [1]

    'The date on which the currency2 amount will be settled. To be used in a split value
    date scenario.'

  End Choice

  <exchangeRate> ExchangeRate </exchangeRate> [1]

  'The rate of exchange between the two currencies.'

  <nonDeliverableForward> FxCashSettlement </nonDeliverableForward> [0..1]
```

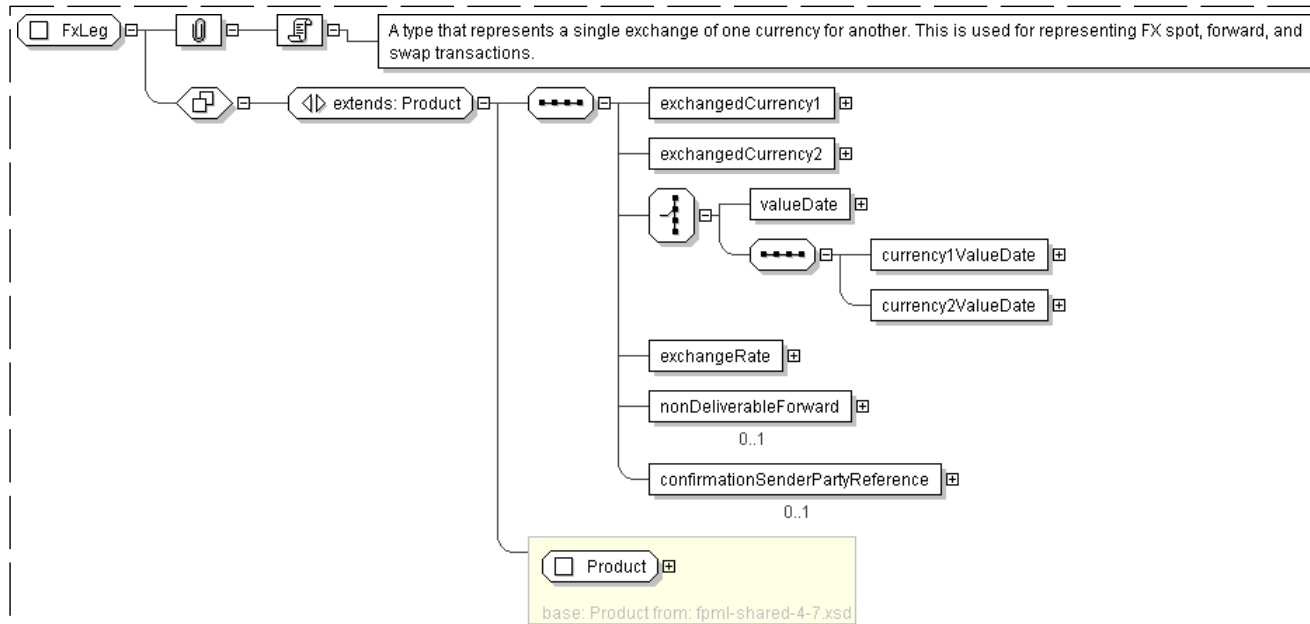
'Used to describe a particular type of FX forward transaction that is settled in a single currency.'

<confirmationSenderPartyReference> [PartyReference](#) </confirmationSenderPartyReference> [0..1]

'A reference to the party that is sending the current document as a confirmation of the trade.'

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="FxLeg">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:element name="exchangedCurrency1" type="Payment"/>
        <xsd:element name="exchangedCurrency2" type="Payment"/>
        <xsd:choice>
          <xsd:element name="valueDate" type="xsd:date"/>
          <xsd:sequence>
            <xsd:element name="currency1ValueDate" type="xsd:date"/>
            <xsd:element name="currency2ValueDate" type="xsd:date"/>
          </xsd:sequence>
        </xsd:choice>
        <xsd:element name="exchangeRate" type="ExchangeRate"/>
        <xsd:element name="nonDeliverableForward" type="FxCashSettlement" minOccurs="0"/>
        <xsd:element name="confirmationSenderPartyReference" type="PartyReference" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

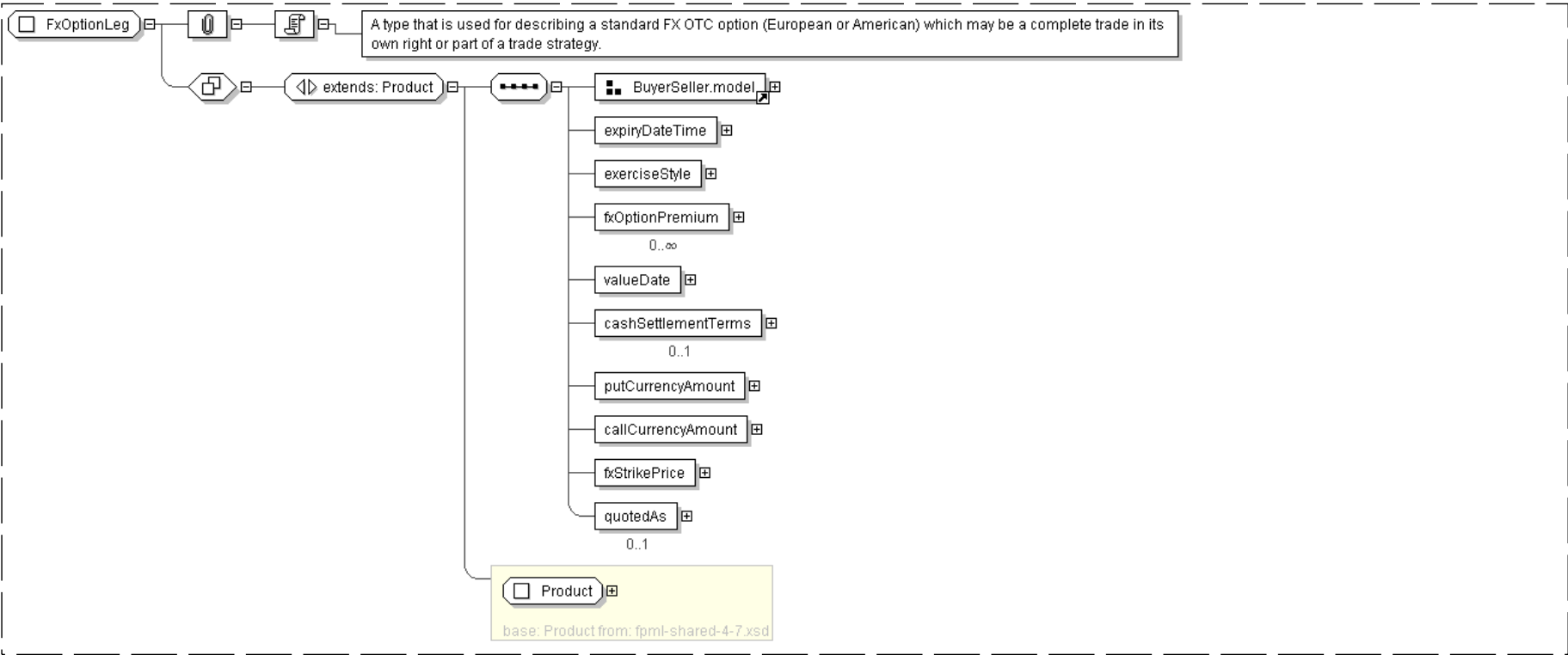
```

Super-types:	<a href="#">Product</a> < <b>FxOptionLeg</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">FxBarrierOption</a> (by extension)</li></ul>
Name	FxOptionLeg
Used by (from the same schema document)	Element <a href="#">fxSimpleOption</a>
Abstract	no
Documentation	A type that is used for describing a standard FX OTC option (European or American) which may be a complete trade in its own right or part of a trade strategy.

XML Instance Representation

<pre>&lt;... id=" xsd:ID [0..1]"&gt;   &lt;productType&gt; <a href="#">ProductType</a> &lt;/productType&gt; [0..*]   'A classification of the type of product. FpML defines a simple product categorization using   a coding scheme.'    &lt;productId&gt; <a href="#">ProductId</a> &lt;/productId&gt; [0..*]   'A product reference identifier allocated by a party. FpML does not define the domain   values associated with this element. Note that the domain values for this element are   not strictly an enumerated list.'    &lt;buyerPartyReference&gt; <a href="#">PartyOrTradeSideReference</a> &lt;/buyerPartyReference&gt; [1]   'A reference to the party that buys this instrument, ie. pays for this instrument and   receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case   of FRAs this the fixed rate payer.'    &lt;sellerPartyReference&gt; <a href="#">PartyOrTradeSideReference</a> &lt;/sellerPartyReference&gt; [1]   'A reference to the party that sells ("writes") this instrument, i.e. that grants the   rights defined by this instrument and in return receives a payment for it. See 2000   ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'    &lt;expiryDateTime&gt; <a href="#">ExpiryDateTime</a> &lt;/expiryDateTime&gt; [1]   'The date and time in a location of the option expiry. In the case of american options this   is the latest possible expiry date and time.'    &lt;exerciseStyle&gt; <a href="#">ExerciseStyleEnum</a> &lt;/exerciseStyle&gt; [1]   'The manner in which the option can be exercised.'    &lt;fxOptionPremium&gt; <a href="#">FxOptionPremium</a> &lt;/fxOptionPremium&gt; [0..*]   'Premium amount or premium installment amount for an option.'    &lt;valueDate&gt; xsd:date &lt;/valueDate&gt; [1]   'The date on which both currencies traded will settle.'    &lt;cashSettlementTerms&gt; <a href="#">FxCashSettlement</a> &lt;/cashSettlementTerms&gt; [0..1]   'This optional element is only used if an option has been specified at execution time to   be settled into a single cash payment. This would be used for a non-deliverable option.'    &lt;putCurrencyAmount&gt; <a href="#">Money</a> &lt;/putCurrencyAmount&gt; [1]   'The currency amount that the option gives the right to sell.'    &lt;callCurrencyAmount&gt; <a href="#">Money</a> &lt;/callCurrencyAmount&gt; [1]   'The currency amount that the option gives the right to buy.'    &lt;fxStrikePrice&gt; <a href="#">FxStrikePrice</a> &lt;/fxStrikePrice&gt; [1]   'TBA'    &lt;quotedAs&gt; <a href="#">QuotedAs</a> &lt;/quotedAs&gt; [0..1]   'Describes how the option was quoted.'  &lt;/...&gt;</pre>	
--	--

Diagram



Schema Component Representation

```
<xsd:complexType name="FxOptionLeg">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:group ref="BuyerSeller.model"/>
        <xsd:element name="expiryDateTime" type="ExpiryDateTime"/>
        <xsd:element name="exerciseStyle" type="ExerciseStyleEnum"/>
        <xsd:element name="fxOptionPremium" type="FxOptionPremium"
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="valueDate" type="xsd:date"/>
        <xsd:element name="cashSettlementTerms" type="FxCashSettlement" minOccurs="0"/>
        <xsd:element name="putCurrencyAmount" type="Money"/>
        <xsd:element name="callCurrencyAmount" type="Money"/>
        <xsd:element name="fxStrikePrice" type="FxStrikePrice"/>
        <xsd:element name="quotedAs" type="QuotedAs" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **FxOptionPayout**

Super-types:	<a href="#">Money</a> < <b>FxOptionPayout</b> (by extension)
Sub-types:	None

Name	FxOptionPayout
Used by (from the same schema document)	Complex Type <a href="#">FxBarrierOption</a> , Complex Type <a href="#">FxDigitalOption</a>
Abstract	no
Documentation	A type that contains full details of a predefined fixed payout which may occur (or not) in a Barrier Option or Digital Option when a trigger event occurs (or not).

XML Instance Representation

```
<...
  id="  xsd:ID [0..1]">
    <currency> Currency </currency> [1]
    'The currency in which an amount is denominated.'

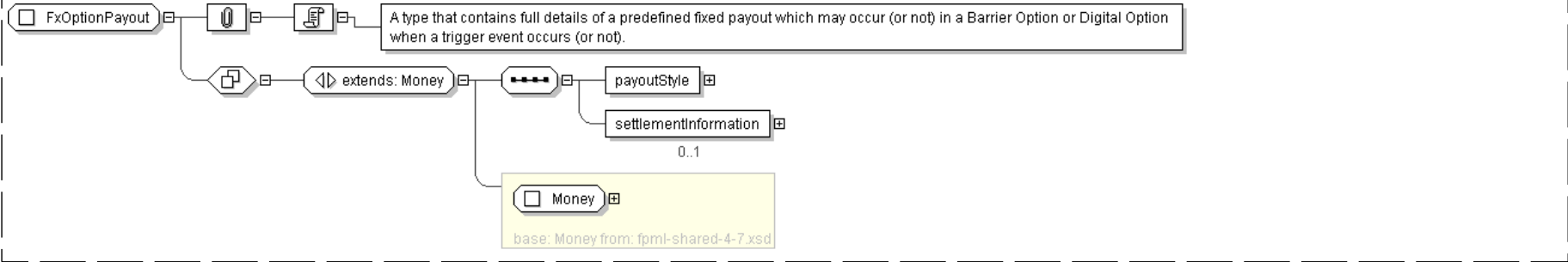
    <amount> xsd:decimal </amount> [1]
    'The monetary quantity in currency units.'

    <payoutStyle> PayoutEnum </payoutStyle> [1]
    'The trigger event and payout may be asynchronous. A payout may become due on the trigger
    event, or the payout may (by agreement at initiation) be deferred (for example) to
    the maturity date.'

    <settlementInformation> SettlementInformation </settlementInformation> [0..1]
    'The information required to settle a currency payment that results from a trade.'

  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxOptionPayout">
  <xsd:complexContent>
    <xsd:extension base=" Money ">
      <xsd:sequence>
        <xsd:element name="payoutStyle" type=" PayoutEnum "/>
        <xsd:element name="settlementInformation" type=" SettlementInformation " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxOptionPremium**

Super-types:	None
Sub-types:	None

Name	FxOptionPremium
Used by (from the same schema document)	Complex Type <a href="#">FxAverageRateOption</a> , Complex Type <a href="#">FxDigitalOption</a> , Complex Type <a href="#">FxOptionLeg</a>

Abstract	no
Documentation	A type that specifies the premium exchanged for a single option trade or option strategy.

XML Instance Representation

```
<...>
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

<premiumAmount> Money </premiumAmount> [1]
'The specific currency and amount of the option premium.'

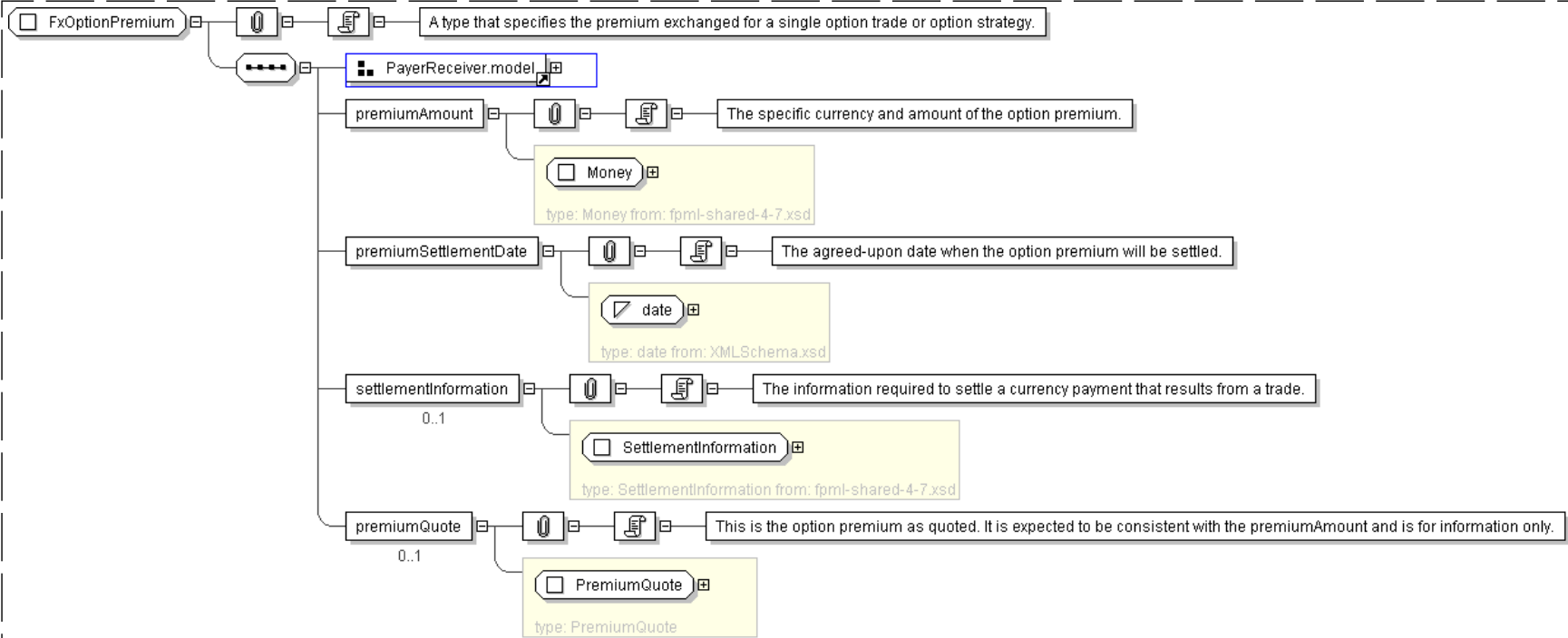
<premiumSettlementDate> xsd:date </premiumSettlementDate> [1]
'The agreed-upon date when the option premium will be settled.'

<settlementInformation> SettlementInformation </settlementInformation> [0..1]
'The information required to settle a currency payment that results from a trade.'

<premiumQuote> PremiumQuote </premiumQuote> [0..1]
'This is the option premium as quoted. It is expected to be consistent with the
premiumAmount and is for information only.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxOptionPremium">
  <xsd:sequence>
```



```
<xsd:group ref=" PayerReceiver.model " />
<xsd:element name="premiumAmount" type=" Money " />
<xsd:element name="premiumSettlementDate" type=" xsd:date " />
<xsd:element name="settlementInformation" type=" SettlementInformation " minOccurs="0" />
<xsd:element name="premiumQuote" type=" PremiumQuote " minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FxStrikePrice**

Super-types:	None
Sub-types:	None

Name	FxStrikePrice
Used by (from the same schema document)	Complex Type <a href="#">FxAverageRateOption</a> , Complex Type <a href="#">FxOptionLeg</a>
Abstract	no
Documentation	A type that describes the rate of exchange at which the option has been struck.

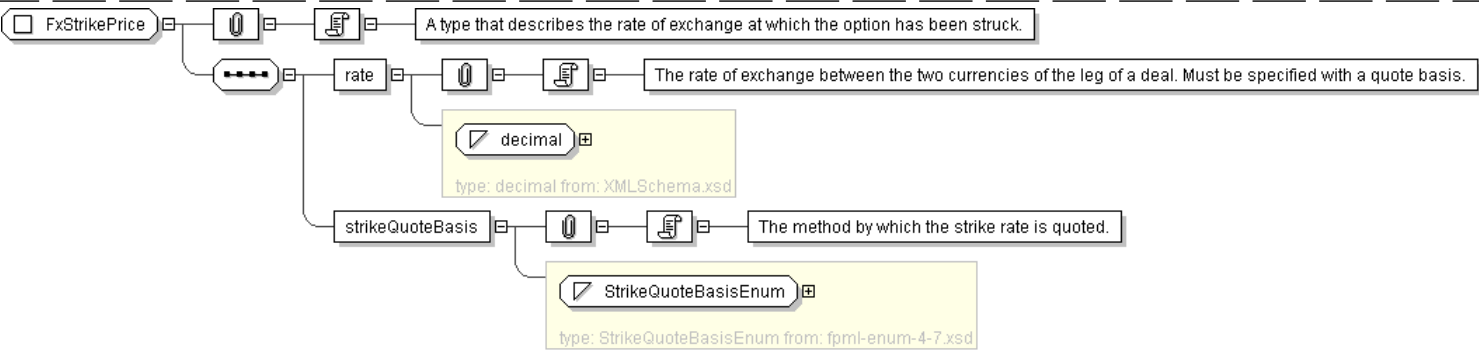
XML Instance Representation

```
<...>
<rate> xsd:decimal </rate> [1]
  'The rate of exchange between the two currencies of the leg of a deal. Must be specified with
  a quote basis.'

<strikeQuoteBasis> StrikeQuoteBasisEnum </strikeQuoteBasis> [1]
  'The method by which the strike rate is quoted.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxStrikePrice">
  <xsd:sequence>
    <xsd:element name="rate" type=" xsd:decimal " />
    <xsd:element name="strikeQuoteBasis" type=" StrikeQuoteBasisEnum " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FxSwap**

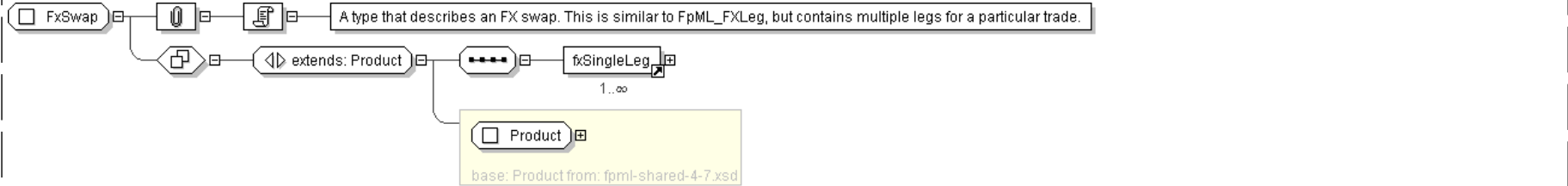
Super-types:	<a href="#">Product</a> < <b>FxSwap</b> (by extension)
Sub-types:	None

Name	FxSwap
Used by (from the same schema document)	Element <a href="#">fxSwap</a>
Abstract	no
Documentation	A type that describes an FX swap. This is similar to FpML_FXLeg, but contains multiple legs for a particular trade.

XML Instance Representation

```
<...  
  id="  xsd:ID [0..1]">  
    <productType> ProductType </productType> [0..*]  
    'A classification of the type of product. FpML defines a simple product categorization using  
    a coding scheme.'  
  
    <productId> ProductId </productId> [0..*]  
    'A product reference identifier allocated by a party. FpML does not define the domain  
    values associated with this element. Note that the domain values for this element are  
    not strictly an enumerated list.'  
  
    <fxSingleLeg> ... </fxSingleLeg> [1..*]  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxSwap">  
  <xsd:complexContent>  
    <xsd:extension base=" Product ">  
      <xsd:sequence>  
        <xsd:element ref=" fxSingleLeg " maxOccurs="unbounded"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **ObservedRates**

Super-types:	None
Sub-types:	None

Name	ObservedRates
Used by (from the same schema document)	Complex Type <a href="#">FxAverageRateOption</a>
Abstract	no
Documentation	A type that describes prior rate observations within average rate options. Periodically, an average rate option agreement will be struck whereby some rates have already been observed in the past but will become part of computation of the average rate of the option. This structure provides for these previously observed rates to be included in the description of the trade.

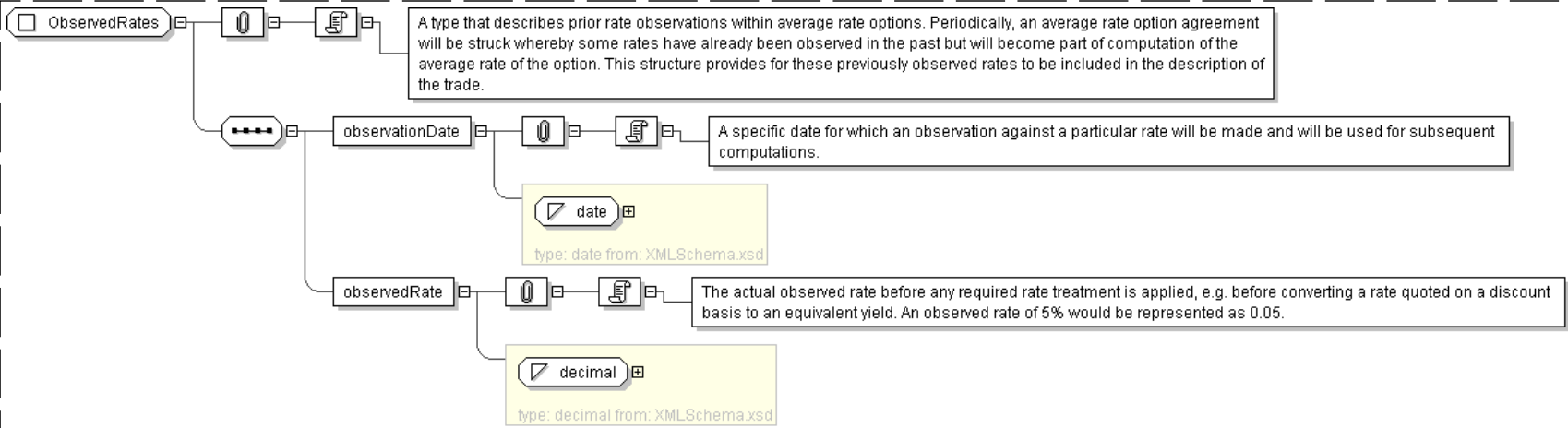
XML Instance Representation

```
<...>
<observationDate> xsd:date </observationDate> [1]
'A specific date for which an observation against a particular rate will be made and will
be used for subsequent computations.'

<observedRate> xsd:decimal </observedRate> [1]
'The actual observed rate before any required rate treatment is applied, e.g. before
converting a rate quoted on a discount basis to an equivalent yield. An observed rate of
5% would be represented as 0.05.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ObservedRates">
  <xsd:sequence>
    <xsd:element name="observationDate" type="xsd:date" />
    <xsd:element name="observedRate" type="xsd:decimal" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: PremiumQuote

Super-types:	None
Sub-types:	None
Name	PremiumQuote
Used by (from the same schema document)	Complex Type <a href="#">FxOptionPremium</a>
Abstract	no
Documentation	A type that describes the option premium as quoted.

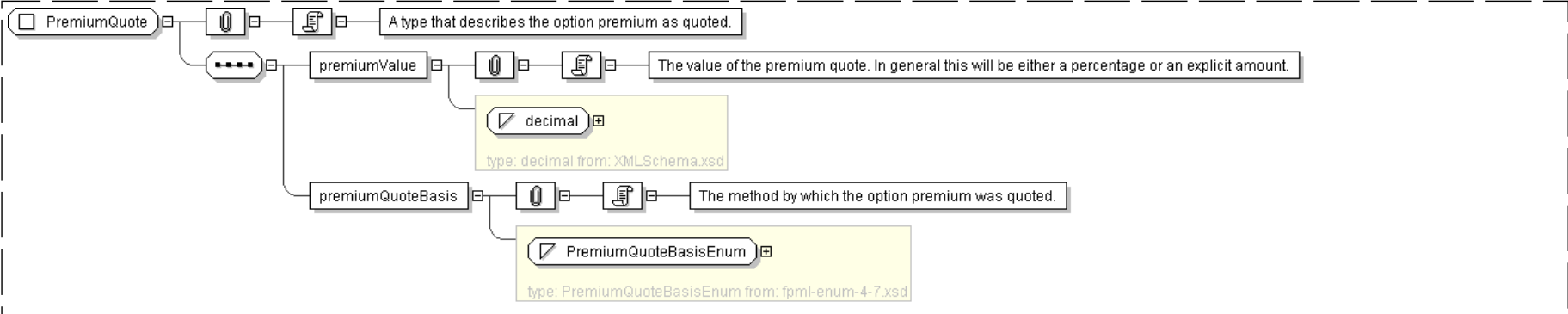
XML Instance Representation

```
<...>
<premiumValue> xsd:decimal </premiumValue> [1]
'The value of the premium quote. In general this will be either a percentage or an
explicit amount.'
```

```
<premiumQuoteBasis> PremiumQuoteBasisEnum </premiumQuoteBasis> [1]
'The method by which the option premium was quoted.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PremiumQuote">
  <xsd:sequence>
    <xsd:element name="premiumValue" type="xsd:decimal" />
    <xsd:element name="premiumQuoteBasis" type="PremiumQuoteBasisEnum" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **QuotedAs**

Super-types:	None
Sub-types:	None

Name	QuotedAs
Used by (from the same schema document)	Complex Type <a href="#">FxOptionLeg</a>
Abstract	no
Documentation	A type that describes how the option was quoted.

XML Instance Representation

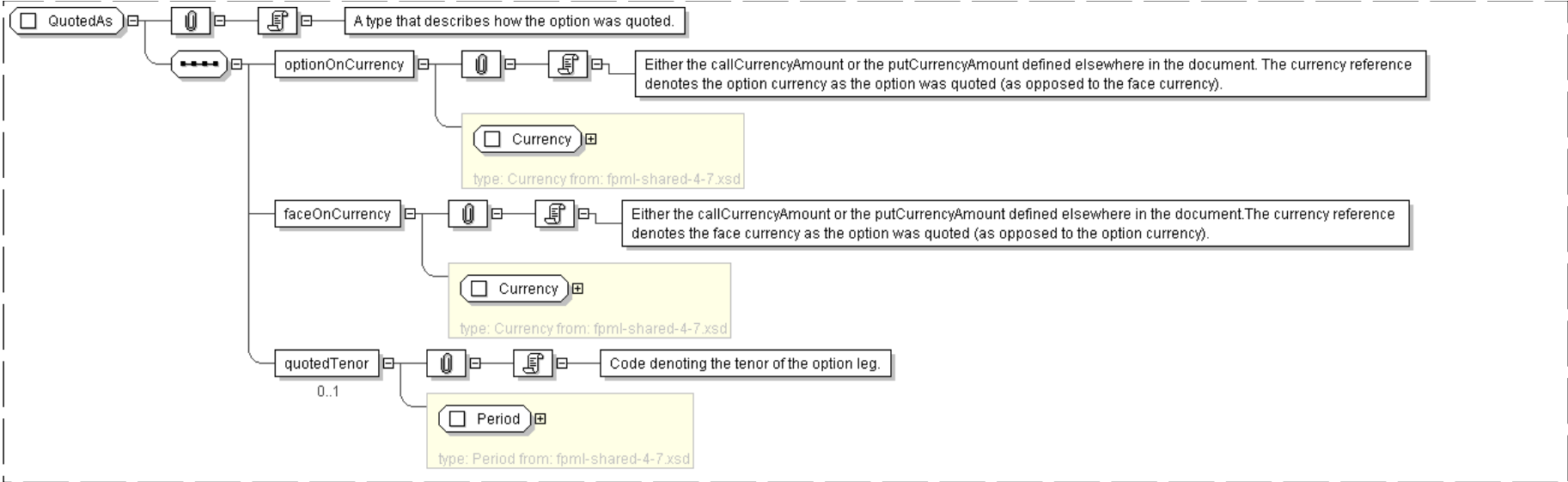
```
<...>
<optionOnCurrency> Currency </optionOnCurrency> [1]
'Either the callCurrencyAmount or the putCurrencyAmount defined elsewhere in the document.
The currency reference denotes the option currency as the option was quoted (as opposed to
the face currency).'
```

```
<faceOnCurrency> Currency </faceOnCurrency> [1]
'Either the callCurrencyAmount or the putCurrencyAmount defined elsewhere in the document.
The currency reference denotes the face currency as the option was quoted (as opposed to
the option currency).'
```

```
<quotedTenor> Period </quotedTenor> [0..1]
'Code denoting the tenor of the option leg.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotedAs">
  <xsd:sequence>
    <xsd:element name="optionOnCurrency" type="Currency" />
    <xsd:element name="faceOnCurrency" type="Currency" />
    <xsd:element name="quotedTenor" type="Period" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: SideRate

Super-types:	None
Sub-types:	None
Name	SideRate
Used by (from the same schema document)	Complex Type SideRates , Complex Type SideRates
Abstract	no
Documentation	A type that is used for describing a particular rate against base currency. Exists within SideRates.

XML Instance Representation

```
<...>
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

  <sideRateBasis> SideRateBasisEnum </sideRateBasis> [1]
  'The method by which the exchange rate against base currency is quoted.'

  <rate> xsd:decimal </rate> [1]
  'The rate of exchange between the two currencies of the leg of a deal. Must be specified with a quote basis.'

  <spotRate> xsd:decimal </spotRate> [0..1]
  'An optional element used for FX forwards and certain types of FX OTC options. For deals consumated in the FX Forwards Market, this represents the current market rate for
```

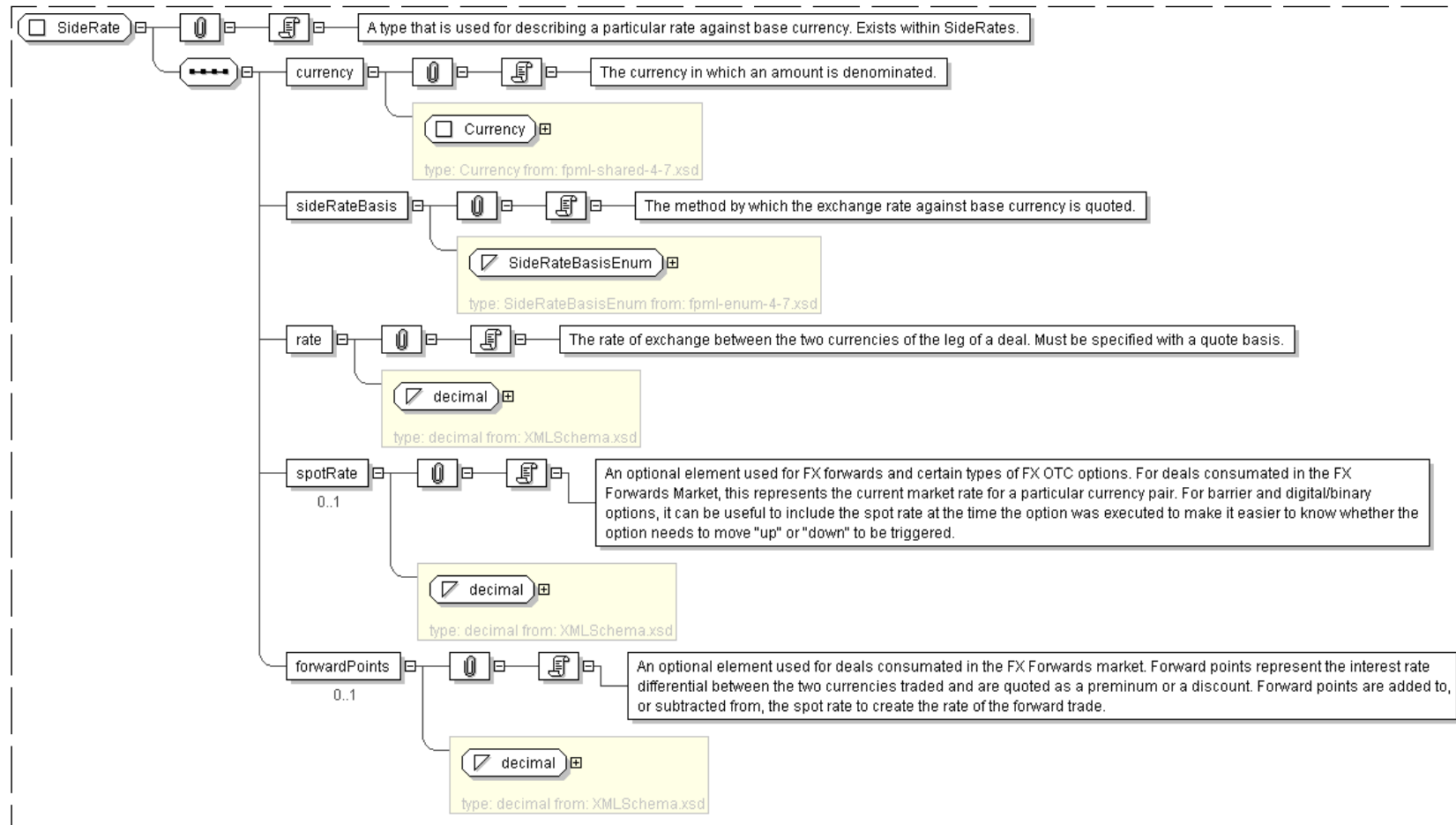
a particular currency pair. For barrier and digital/binary options, it can be useful to include the spot rate at the time the option was executed to make it easier to know whether the option needs to move \"up\" or \"down\" to be triggered.'

```
<forwardPoints> xsd:decimal </forwardPoints> [0..1]
```

'An optional element used for deals consumated in the FX Forwards market. Forward points represent the interest rate differential between the two currencies traded and are quoted as a premium or a discount. Forward points are added to, or subtracted from, the spot rate to create the rate of the forward trade.'

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="SideRate">
  <xsd:sequence>
    <xsd:element name="currency" type="Currency" />
    <xsd:element name="sideRateBasis" type="SideRateBasisEnum" />
    <xsd:element name="rate" type="xsd:decimal" />
    <xsd:element name="spotRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="forwardPoints" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: SideRates

Super-types:	None
Sub-types:	None
Name	SideRates
Used by (from the same schema document)	Complex Type <a href="#">ExchangeRate</a>
Abstract	no
Documentation	A type that is used for including rates against base currency for non-base currency FX contracts.

XML Instance Representation

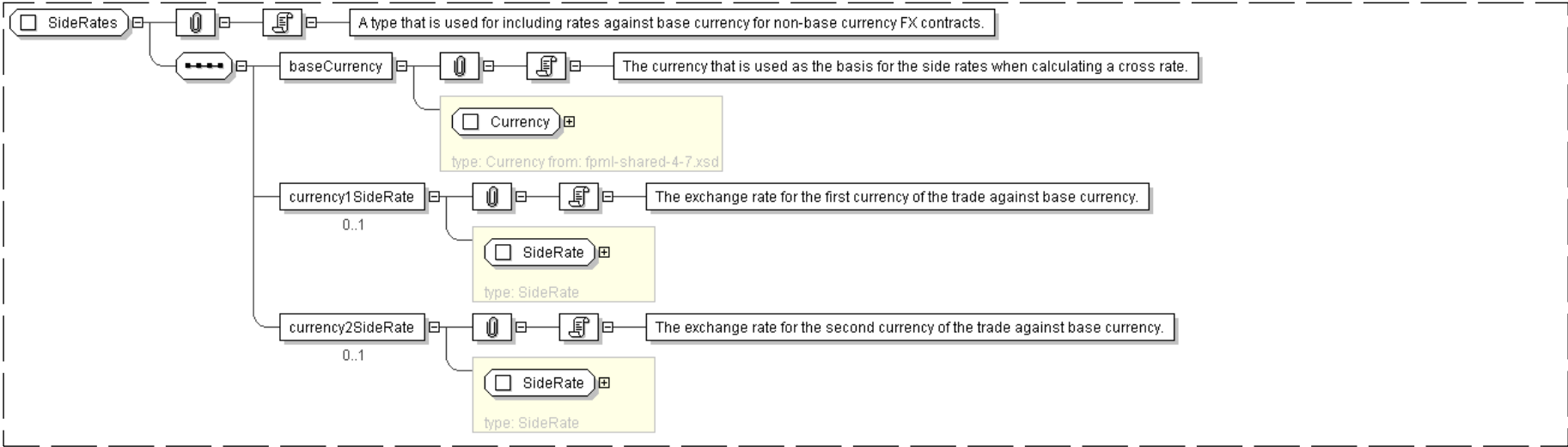
```
<...>
  <baseCurrency> Currency </baseCurrency> [1]
  'The currency that is used as the basis for the side rates when calculating a cross rate.'

  <currency1SideRate> SideRate </currency1SideRate> [0..1]
  'The exchange rate for the first currency of the trade against base currency.'

  <currency2SideRate> SideRate </currency2SideRate> [0..1]
  'The exchange rate for the second currency of the trade against base currency.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SideRates">
  <xsd:sequence>
    <xsd:element name="baseCurrency" type="Currency" />
    <xsd:element name="currency1SideRate" type="SideRate" minOccurs="0"/>
    <xsd:element name="currency2SideRate" type="SideRate" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **TermDeposit**

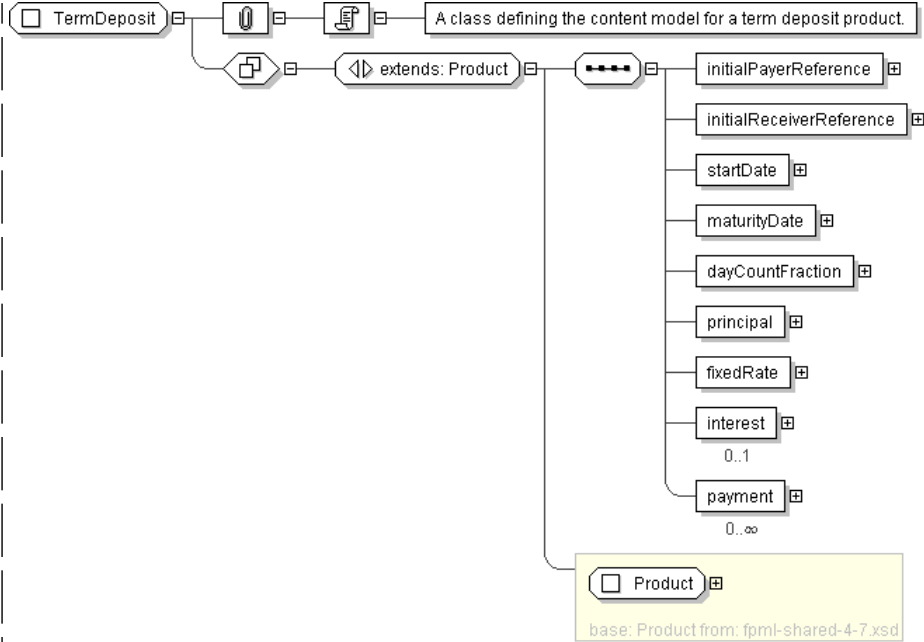
Super-types:	<a href="#">Product</a> < <b>TermDeposit</b> (by extension)
Sub-types:	None
Name	TermDeposit
Used by (from the same schema document)	Element <a href="#">termDeposit</a>
Abstract	no
Documentation	A class defining the content model for a term deposit product.

XML Instance Representation

<pre>&lt;... id=" xsd:ID [0..1]"&gt;   &lt;productType&gt; <a href="#">ProductType</a> &lt;/productType&gt; [0..*]   'A classification of the type of product. FpML defines a simple product categorization using   a coding scheme.'   &lt;productId&gt; <a href="#">ProductId</a> &lt;/productId&gt; [0..*]   'A product reference identifier allocated by a party. FpML does not define the domain   values associated with this element. Note that the domain values for this element are   not strictly an enumerated list.'   &lt;initialPayerReference&gt; <a href="#">PartyReference</a> &lt;/initialPayerReference&gt; [1]   'A pointer style reference to a party identifier defined elsewhere in the document. The   party referenced is the payer of the initial principal of the deposit on the start date.'   &lt;initialReceiverReference&gt; <a href="#">PartyReference</a> &lt;/initialReceiverReference&gt; [1]   'A pointer style reference to a party identifier defined elsewhere in the document. The   party is the receiver of the initial principal of the deposit on the start date.'   &lt;startDate&gt; <a href="#">xsd:date</a> &lt;/startDate&gt; [1]   'The averaging period start date.'   &lt;maturityDate&gt; <a href="#">xsd:date</a> &lt;/maturityDate&gt; [1]   'The end date of the calculation period. This date should already be adjusted for   any applicable business day convention.'   &lt;dayCountFraction&gt; <a href="#">DayCountFraction</a> &lt;/dayCountFraction&gt; [1]   'The day count fraction.'   &lt;principal&gt; <a href="#">Money</a> &lt;/principal&gt; [1]   'The principal amount of the trade.'   &lt;fixedRate&gt; <a href="#">xsd:decimal</a> &lt;/fixedRate&gt; [1]   'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate   of 5% would be represented as 0.05.'   &lt;interest&gt; <a href="#">Money</a> &lt;/interest&gt; [0..1]   'The total interest of at maturity of the trade.'   &lt;payment&gt; <a href="#">Payment</a> &lt;/payment&gt; [0..*]   'A known payment between two parties.'   &lt;/...&gt;</pre>	
--	--

Diagram





Schema Component Representation

```
<xsd:complexType name="TermDeposit">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:element name="initialPayerReference" type=" PartyReference "/>
        <xsd:element name="initialReceiverReference" type=" PartyReference "/>
        <xsd:element name="startDate" type=" xsd:date "/>
        <xsd:element name="maturityDate" type=" xsd:date "/>
        <xsd:element name="dayCountFraction" type=" DayCountFraction "/>
        <xsd:element name="principal" type=" Money "/>
        <xsd:element name="fixedRate" type=" xsd:decimal "/>
        <xsd:element name="interest" type=" Money " minOccurs="0"/>
        <xsd:element name="payment" type=" Payment " minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
------	------------

<b>Abstract</b>	no
-----------------	----

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <u>AusStates</u> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
---

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" <u>Address</u> "&gt; &lt;sequence&gt; &lt;element name="state" type=" <u>AusStates</u> "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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  - [Complex Type: \*\*RelevantUnderlyingDateReference\*\*](#)
  - [Complex Type: \*\*ResetDates\*\*](#)

Schema Document Properties

Target Namespace	http://www.fpml.org/2009/FpML-4-7
Version	\$Revision: 6590 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li><a href="#">fpml-asset-4-7.xsd</a></li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	http://www.eclipse.org/emf/2002/Ecore
xml	http://www.w3.org/XML/1998/namespace
xsd	http://www.w3.org/2001/XMLSchema
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6590 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-asset-4-7.xsd"/>
  ...
</xsd:schema>
```

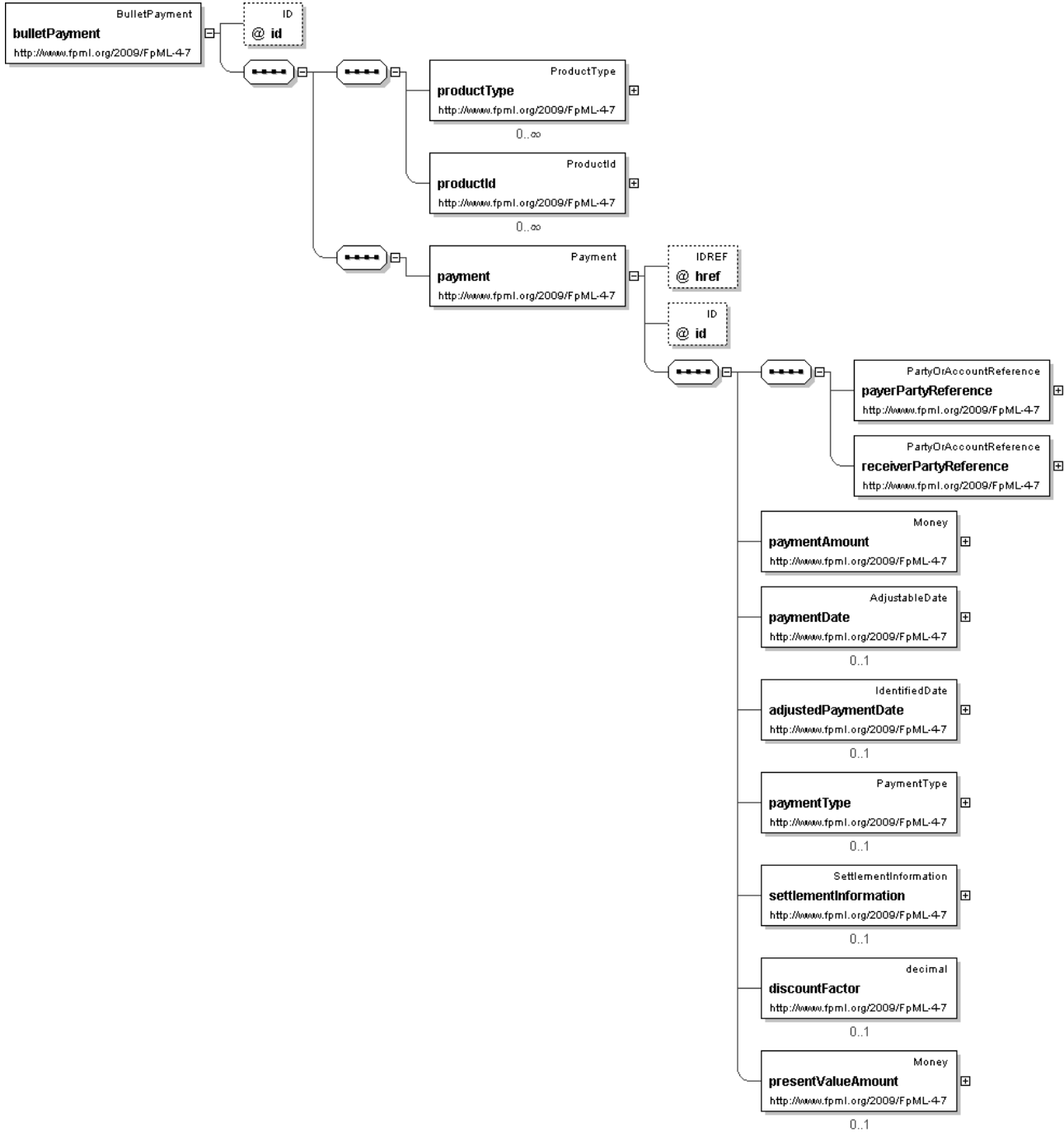
Global Declarations

Element: **bulletPayment**

- This element can be used wherever the following element is referenced:
  - [product](#)

Name	bulletPayment
Type	<a href="#">BulletPayment</a>
Nillable	no
Abstract	no
Documentation	A product to represent a single known payment.

Logical Diagram



XML Instance Representation

```
<bulletPayment
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  ...

```

*\*A classification of the type of product. FpML defines a simple product categorization using*

a coding scheme.'

```
<productId> ProductId </productId> [0..*]
```

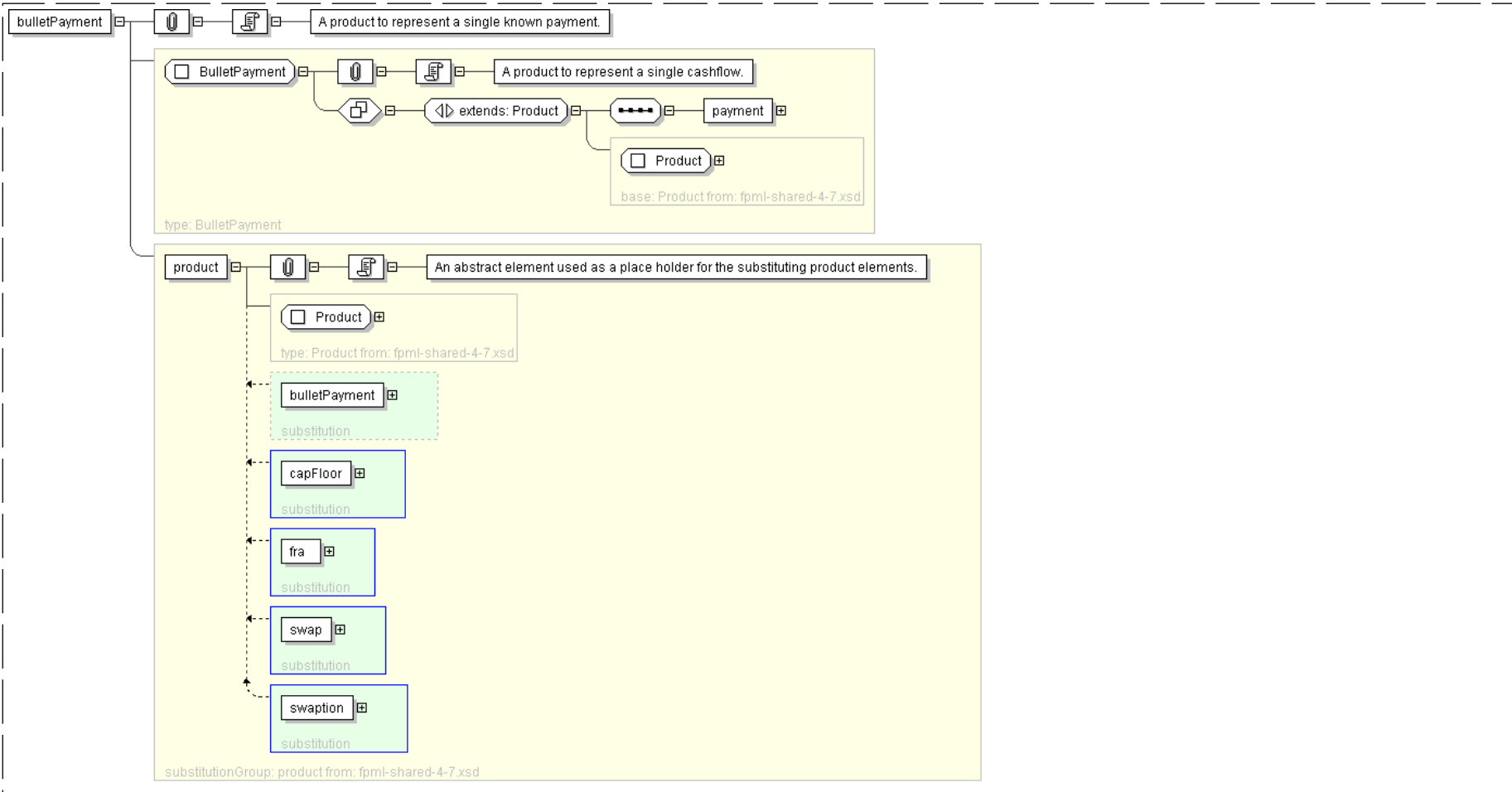
```
'A product reference identifier allocated by a party. FpML does not define the domain
values associated with this element. Note that the domain values for this element are
not strictly an enumerated list.'
```

```
<payment> Payment </payment> [1]
```

'A known payment between two parties.'

&lt;/bulletPayment&gt;

### Diagram



### Schema Component Representation

```
<xsd:element name="bulletPayment" type=" BulletPayment " substitutionGroup="product"/>
```

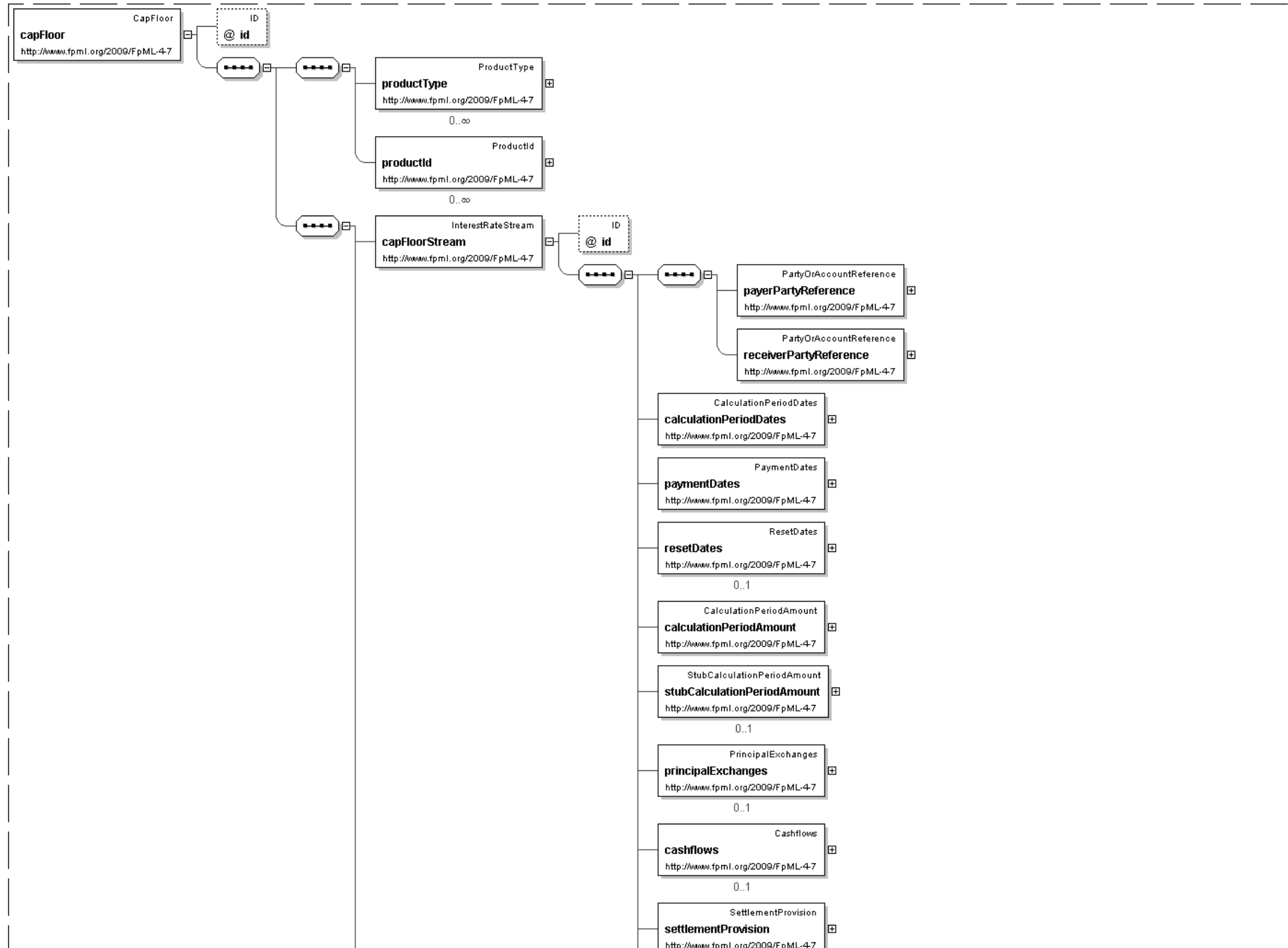
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Element: **capFloor**

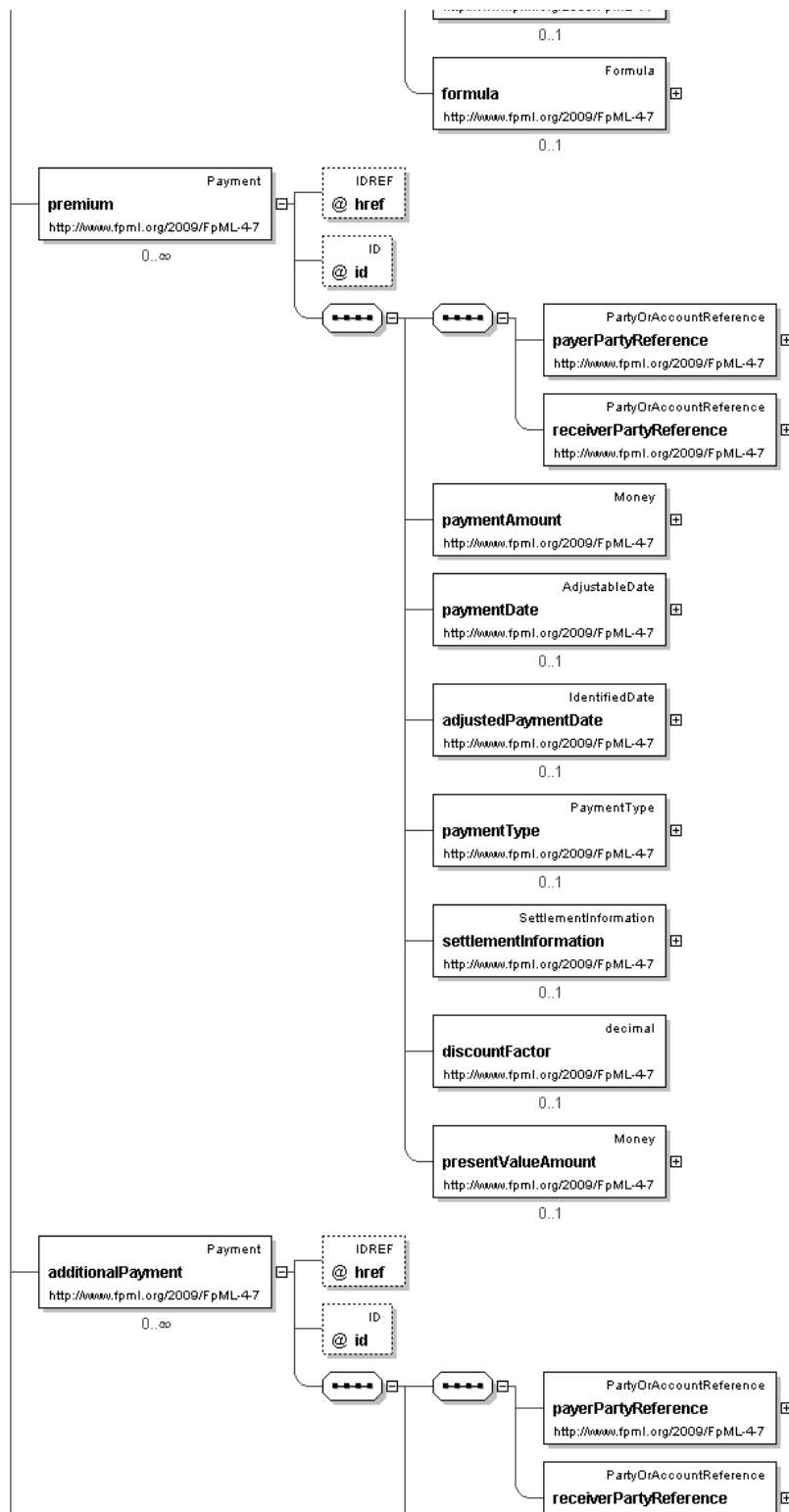
- This element can be used wherever the following element is referenced:
  - [product](#)

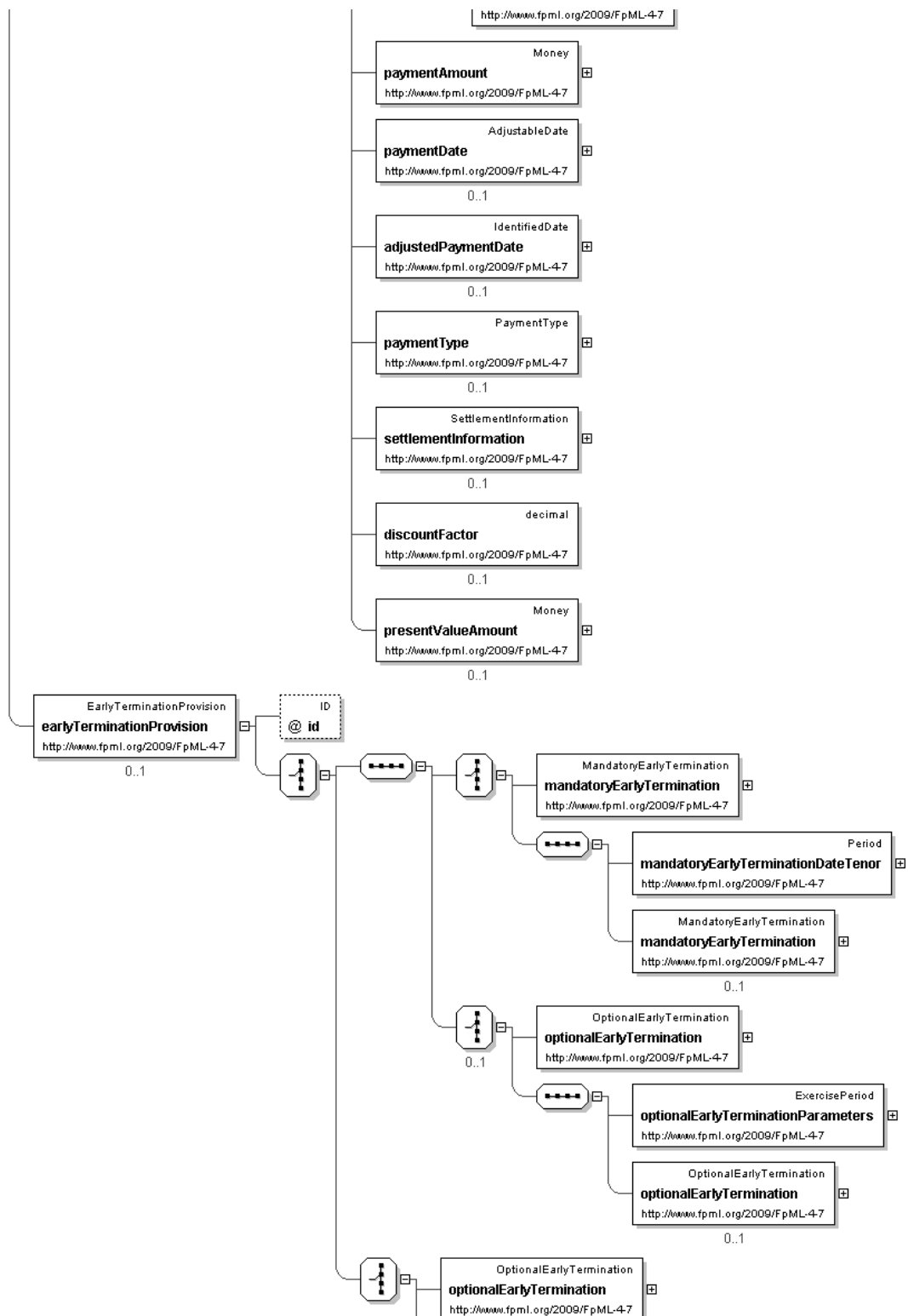
<b>Name</b>	capFloor
<b>Type</b>	<a href="#">CapFloor</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	A cap, floor or cap floor structures product definition.

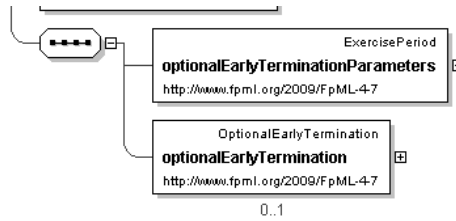
## Logical Diagram











### XML Instance Representation

```
<capFloor
id="xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

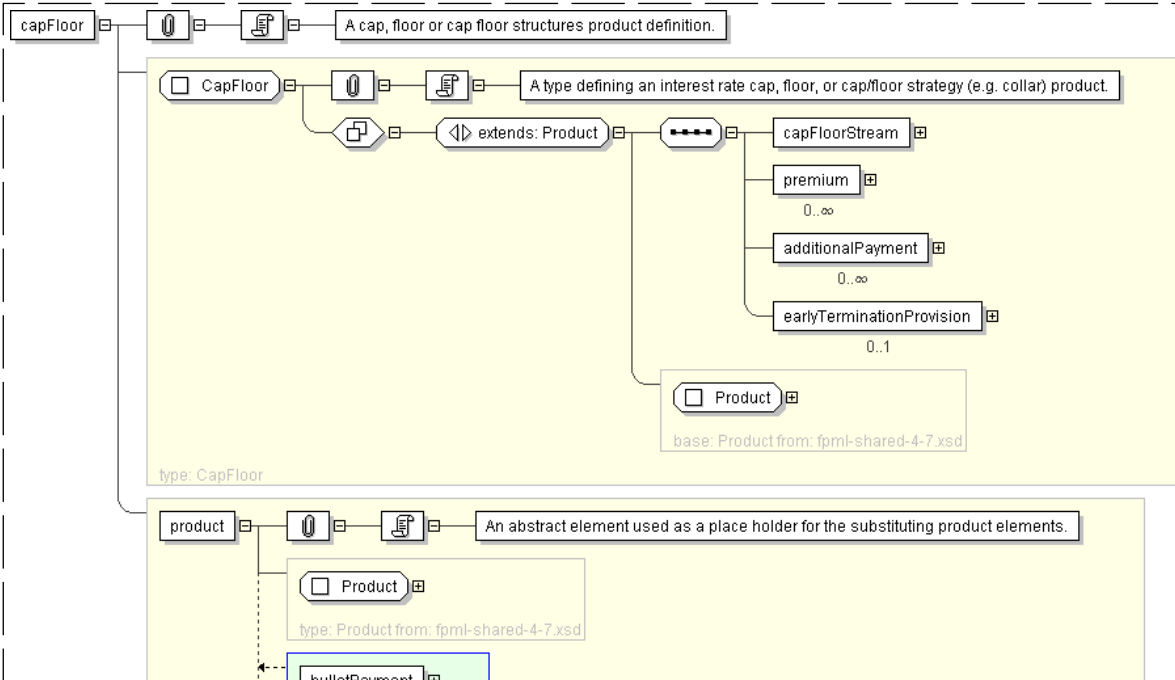
  <capFloorStream> InterestRateStream </capFloorStream> [1]
  <premium> Payment </premium> [0..*]
  'The option premium amount payable by buyer to seller on the specified payment date.'

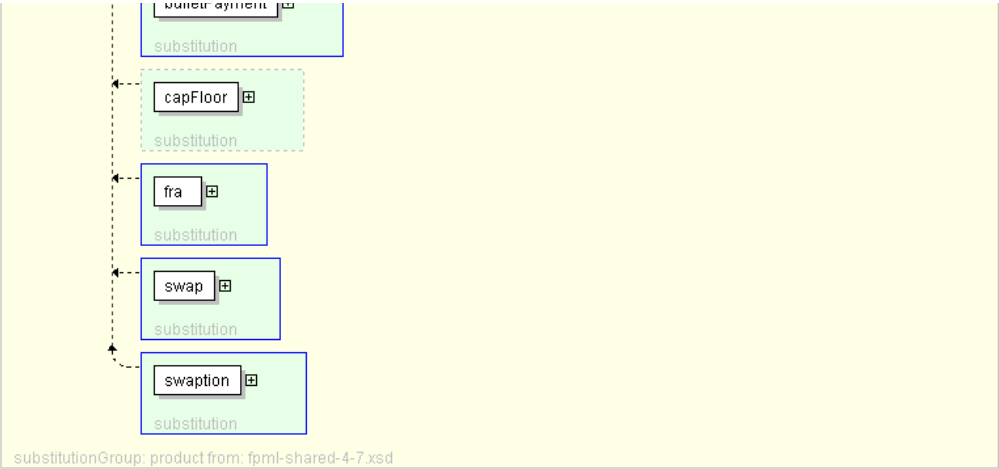
  <additionalPayment> Payment </additionalPayment> [0..*]
  'Additional payments between the principal parties.'

  <earlyTerminationProvision> EarlyTerminationProvision </earlyTerminationProvision> [0..1]
  'Parameters specifying provisions relating to the optional and mandatory early termination of a CapFloor transaction.'

</capFloor>
```

### Diagram





Schema Component Representation

```
<xsd:element name="capFloor" type="CapFloor" substitutionGroup="product"/>
```

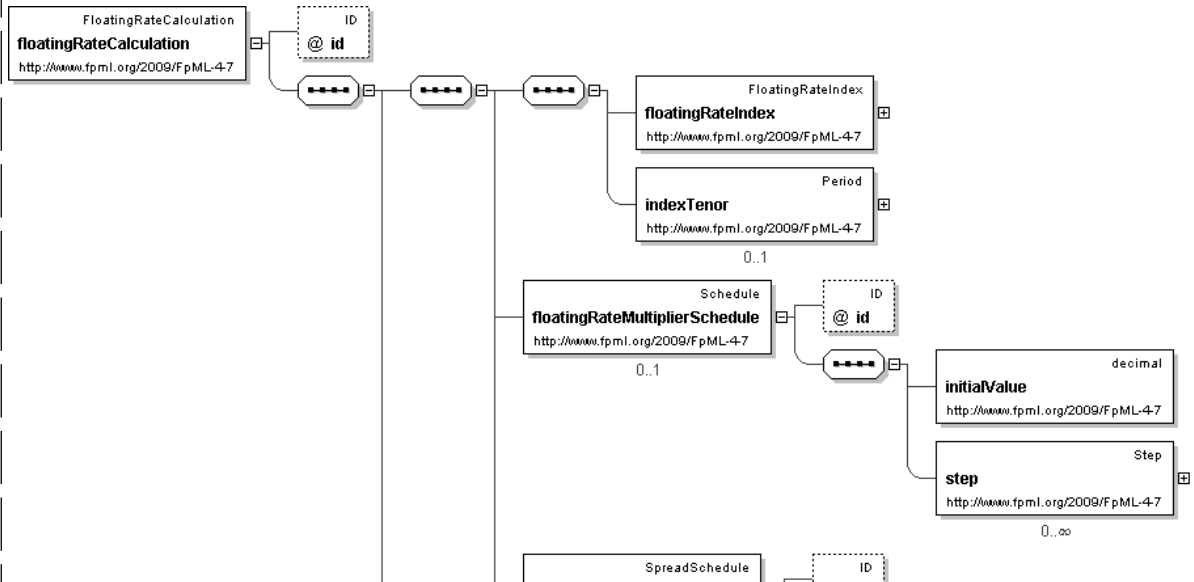
[top](#)

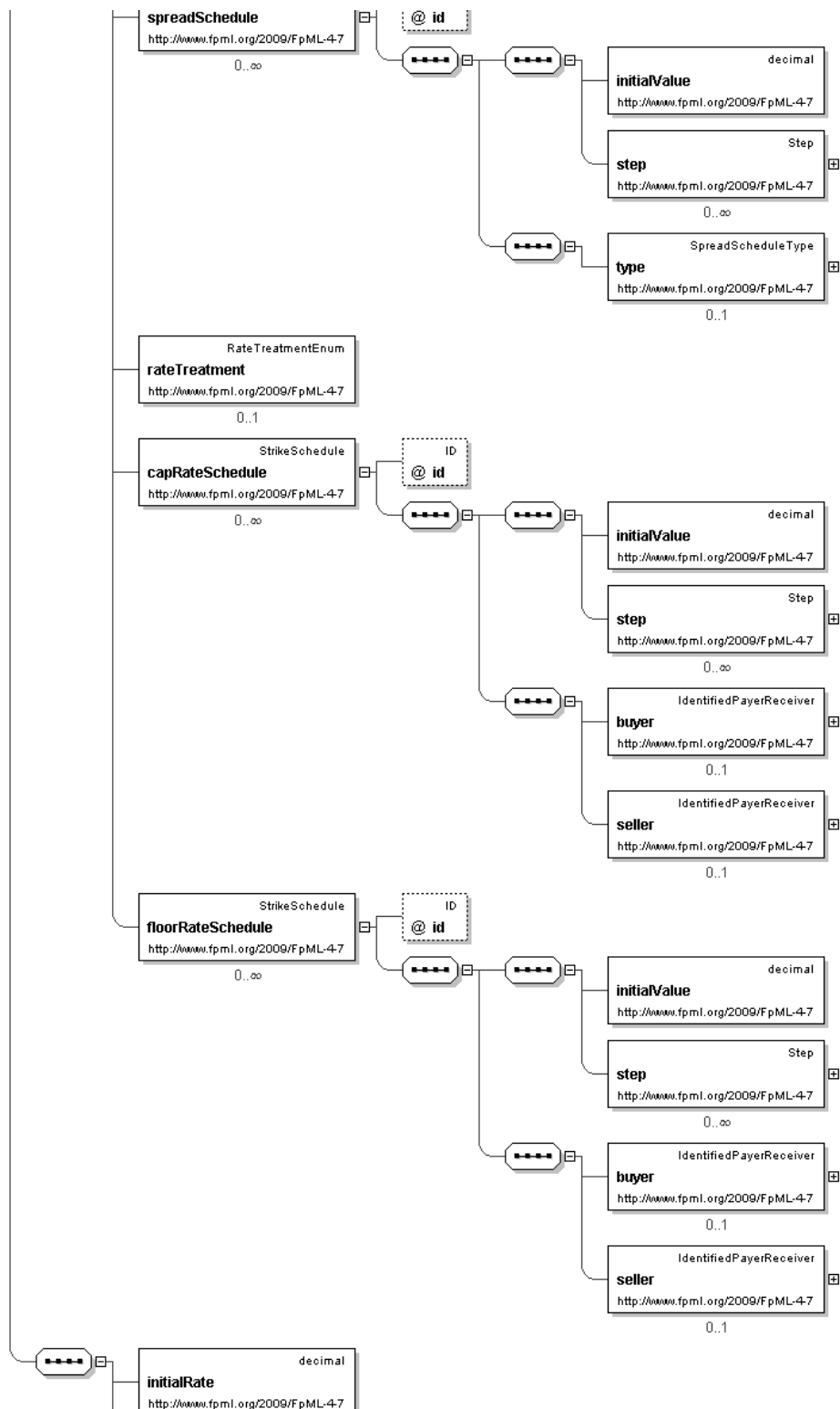
Element: floatingRateCalculation

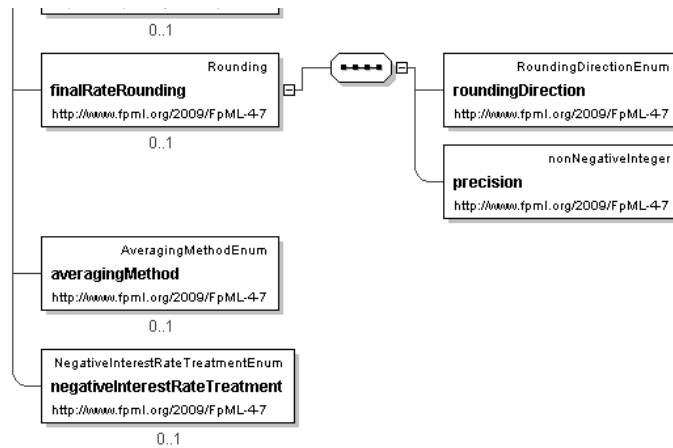
- This element can be used wherever the following element is referenced:
  - [rateCalculation](#)

Name	floatingRateCalculation
Type	FloatingRateCalculation
Nilable	no
Abstract	no
Documentation	A floating rate calculation definition.

Logical Diagram







## XML Instance Representation

```
<floatingRateCalculation
  id="xsd:ID [0..1]">
```

```
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [0..1]
```

'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

```
  <floatingRateMultiplierSchedule> Schedule </floatingRateMultiplierSchedule> [0..1]
```

'A rate multiplier or multiplier schedule to apply to the floating rate. A multiplier schedule is expressed as explicit multipliers and dates. In the case of a schedule, the step dates may be subject to adjustment in accordance with any adjustments specified in the calculationPeriodDatesAdjustments. The multiplier can be a positive or negative decimal. This element should only be included if the multiplier is not equal to 1 (one) for the term of the stream.'

```
  <spreadSchedule> SpreadSchedule </spreadSchedule> [0..*]
```

'The ISDA Spread or a Spread schedule expressed as explicit spreads and dates. In the case of a schedule, the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The spread is a per annum rate, expressed as a decimal. For purposes of determining a calculation period amount, if positive the spread will be added to the floating rate and if negative the spread will be subtracted from the floating rate. A positive 10 basis point (0.1%) spread would be represented as 0.001.'

```
  <rateTreatment> RateTreatmentEnum </rateTreatment> [0..1]
```

'The specification of any rate conversion which needs to be applied to the observed rate before being used in any calculations. The two common conversions are for securities quoted on a bank discount basis which will need to be converted to either a Money Market Yield or Bond Equivalent Yield. See the Annex to the 2000 ISDA Definitions, Section 7.3. Certain General Definitions Relating to Floating Rate Options, paragraphs (g) and (h) for definitions of these terms.'

```
  <capRateSchedule> StrikeSchedule </capRateSchedule> [0..*]
```

'The cap rate or cap rate schedule, if any, which applies to the floating rate. The cap rate (strike) is only required where the floating rate on a swap stream is capped at a certain level. A cap rate schedule is expressed as explicit cap rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The cap rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'

```
  <floorRateSchedule> StrikeSchedule </floorRateSchedule> [0..*]
```

'The floor rate or floor rate schedule, if any, which applies to the floating rate. The floor rate (strike) is only required where the floating rate on a swap stream is floored at a certain strike level. A floor rate schedule is expressed as explicit floor rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The floor rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A floor rate of 5% would be represented as 0.05.'

```
<initialRate> xsd:decimal </initialRate> [0..1]

'The initial floating rate reset agreed between the principal parties involved in the
trade. This is assumed to be the first required reset rate for the first regular
calculation period. It should only be included when the rate is not equal to the rate
published on the source implied by the floating rate index. An initial rate of 5% would
be represented as 0.05.'
```

```
<finalRateRounding> Rounding </finalRateRounding> [0..1]

'The rounding convention to apply to the final rate used in determination of a
calculation period amount.'
```

```
<averagingMethod> AveragingMethodEnum </averagingMethod> [0..1]

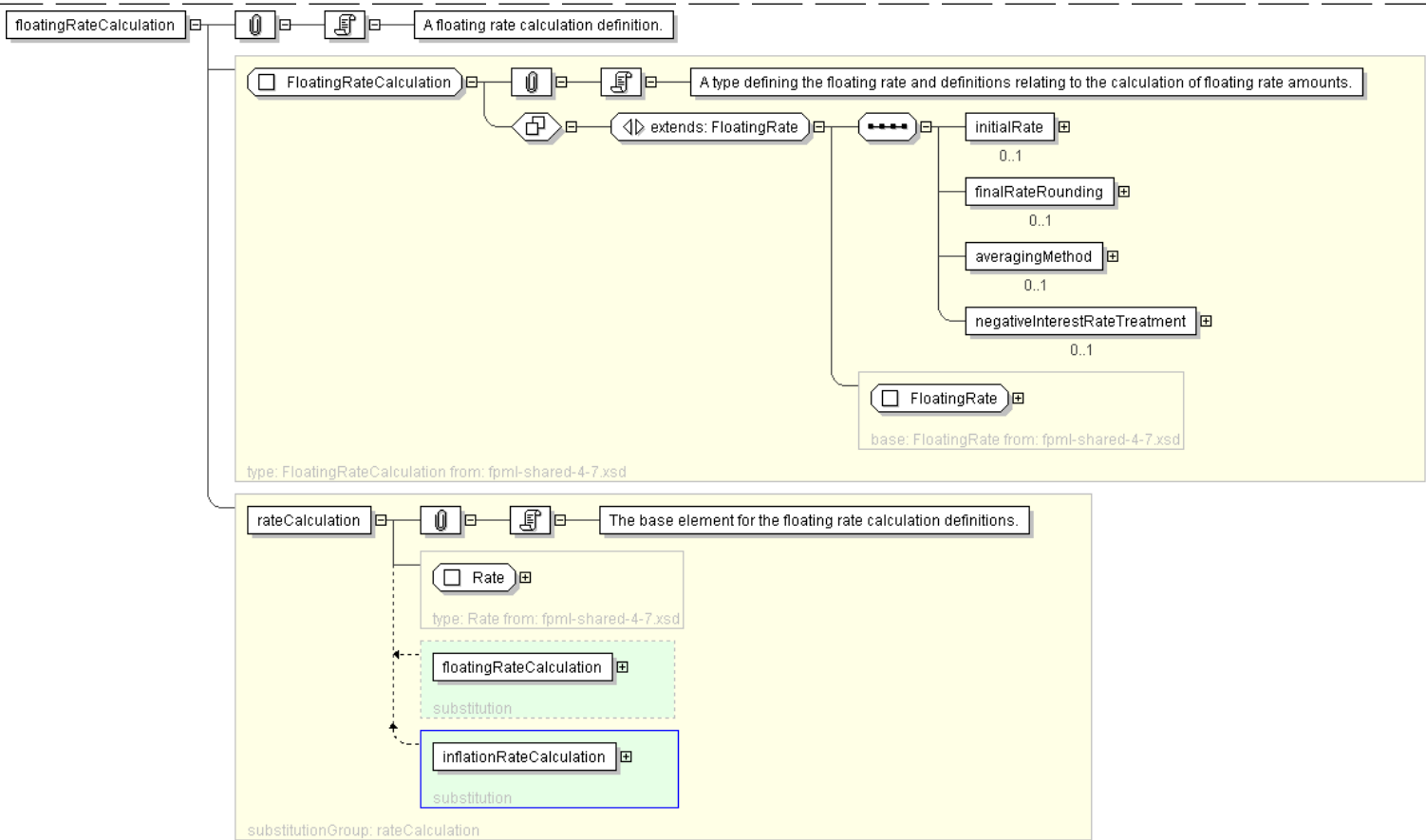
'If averaging is applicable, this component specifies whether a weighted or unweighted
average method of calculation is to be used. The component must only be included when
averaging applies.'
```

```
<negativeInterestRateTreatment> NegativeInterestRateTreatmentEnum
</negativeInterestRateTreatment> [0..1]

'The specification of any provisions for calculating payment obligations when a floating
rate is negative (either due to a quoted negative floating rate or by operation of a
spread that is subtracted from the floating rate).'
```

```
</floatingRateCalculation>
```

Diagram



Schema Component Representation

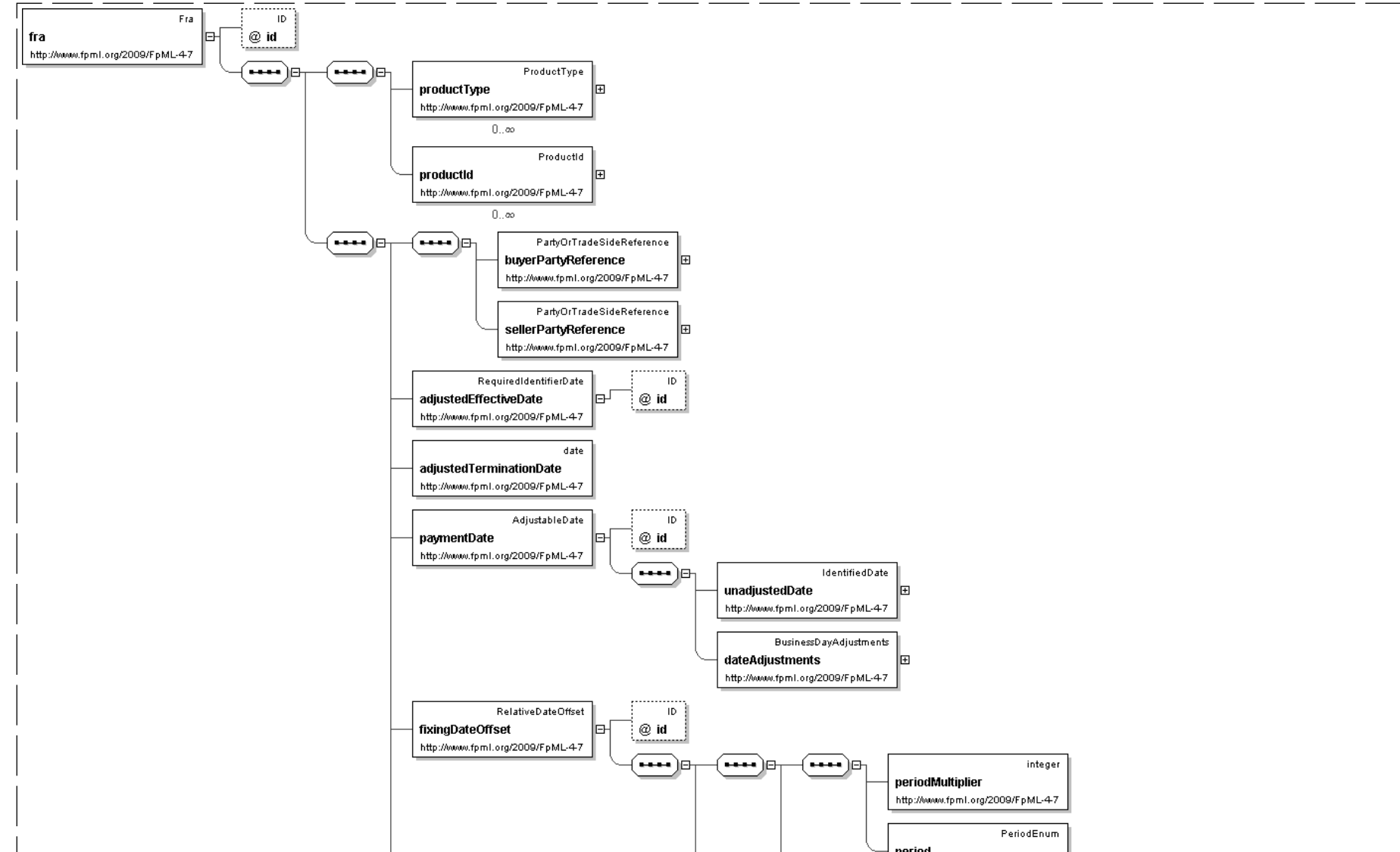
```
<xsd:element name="floatingRateCalculation" type=" FloatingRateCalculation
```

Element: fra

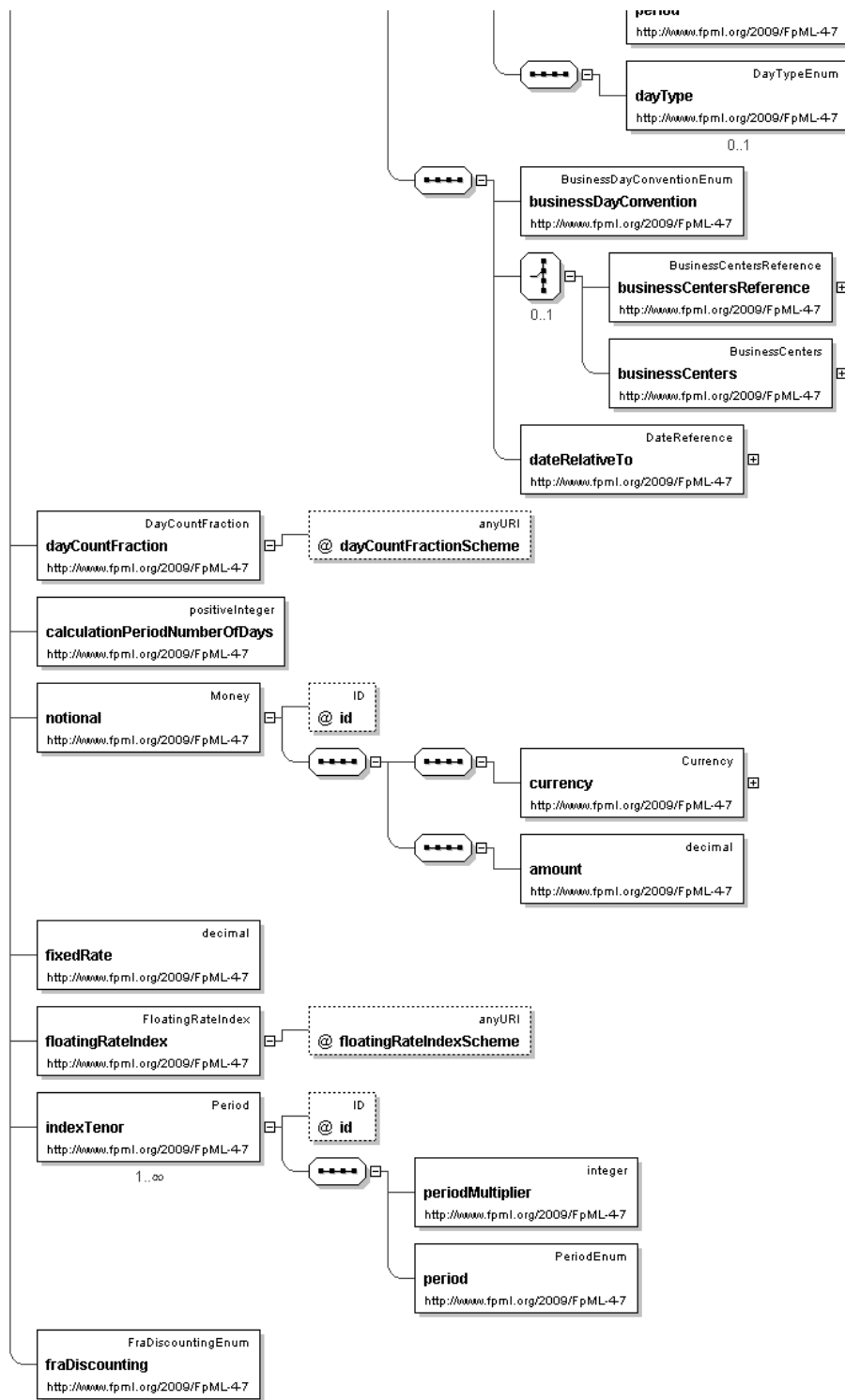
- This element can be used wherever the following element is referenced:
  - product

Name	fra
Type	Fra
Nilable	no
Abstract	no
Documentation	A forward rate agreement product definition.

Logical Diagram







## XML Instance Representation

```

<fra
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <adjustedEffectiveDate> RequiredIdentifierDate </adjustedEffectiveDate> [1]
  'The start date of the calculation period. This date should already be adjusted for
  any applicable business day convention. This is also the date when the observed rate
  is applied, the reset date.'

  <adjustedTerminationDate> xsd:date </adjustedTerminationDate> [1]
  'The end date of the calculation period. This date should already be adjusted for
  any applicable business day convention.'

  <paymentDate> AdjustableDate </paymentDate> [1]
  'The payment date. This date is subject to adjustment in accordance with any
  applicable business day convention.'

  <fixingDateOffset> RelativeDateOffset </fixingDateOffset> [1]
  'Specifies the fixing date relative to the reset date in terms of a business days offset and
  an associated set of financial business centers. Normally these offset calculation rules
  will be those specified in the ISDA definition for the relevant floating rate index (ISDA
  \s Floating Rate Option). However, non-standard offset calculation rules may apply for a
  trade if mutually agreed by the principal parties to the transaction. The href attribute on
  the dateRelativeTo element should reference the id attribute on the
  adjustedEffectiveDate element.'

  <dayCountFraction> DayCountFraction </dayCountFraction> [1]
  'The day count fraction.'

  <calculationPeriodNumberOfDays> xsd:positiveInteger </calculationPeriodNumberOfDays> [1]
  'The number of days from the adjusted effective date to the adjusted termination
  date calculated in accordance with the applicable day count fraction.'

  <notional> Money </notional> [1]
  'The notional amount.'

  <fixedRate> xsd:decimal </fixedRate> [1]
  'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate
  of 5% would be represented as 0.05.'

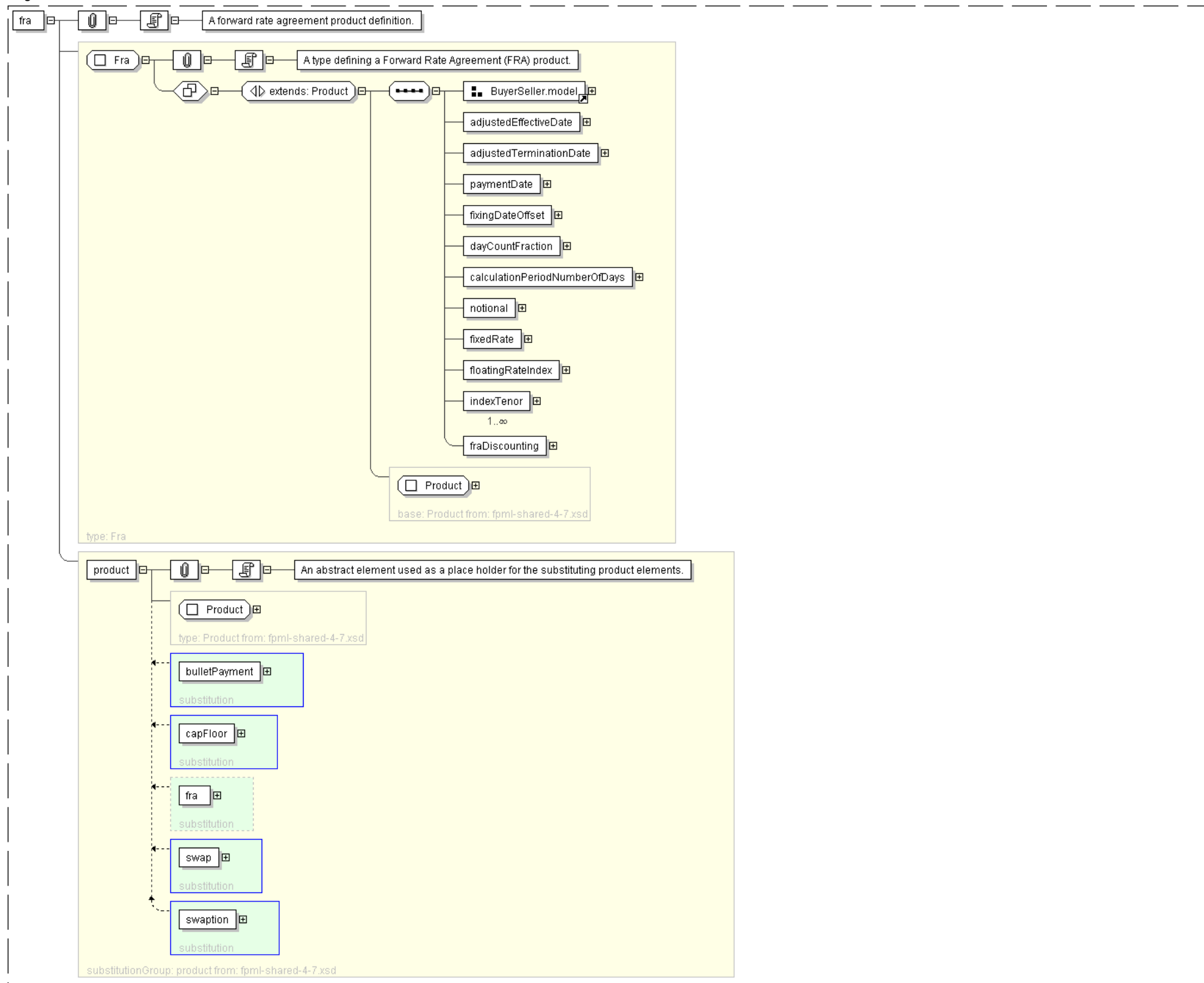
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [1..*]
  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

  <fraDiscounting> FraDiscountingEnum </fraDiscounting> [1]
  'Specifies whether discounting applies and, if so, what type.'

</fra>

```

## Diagram

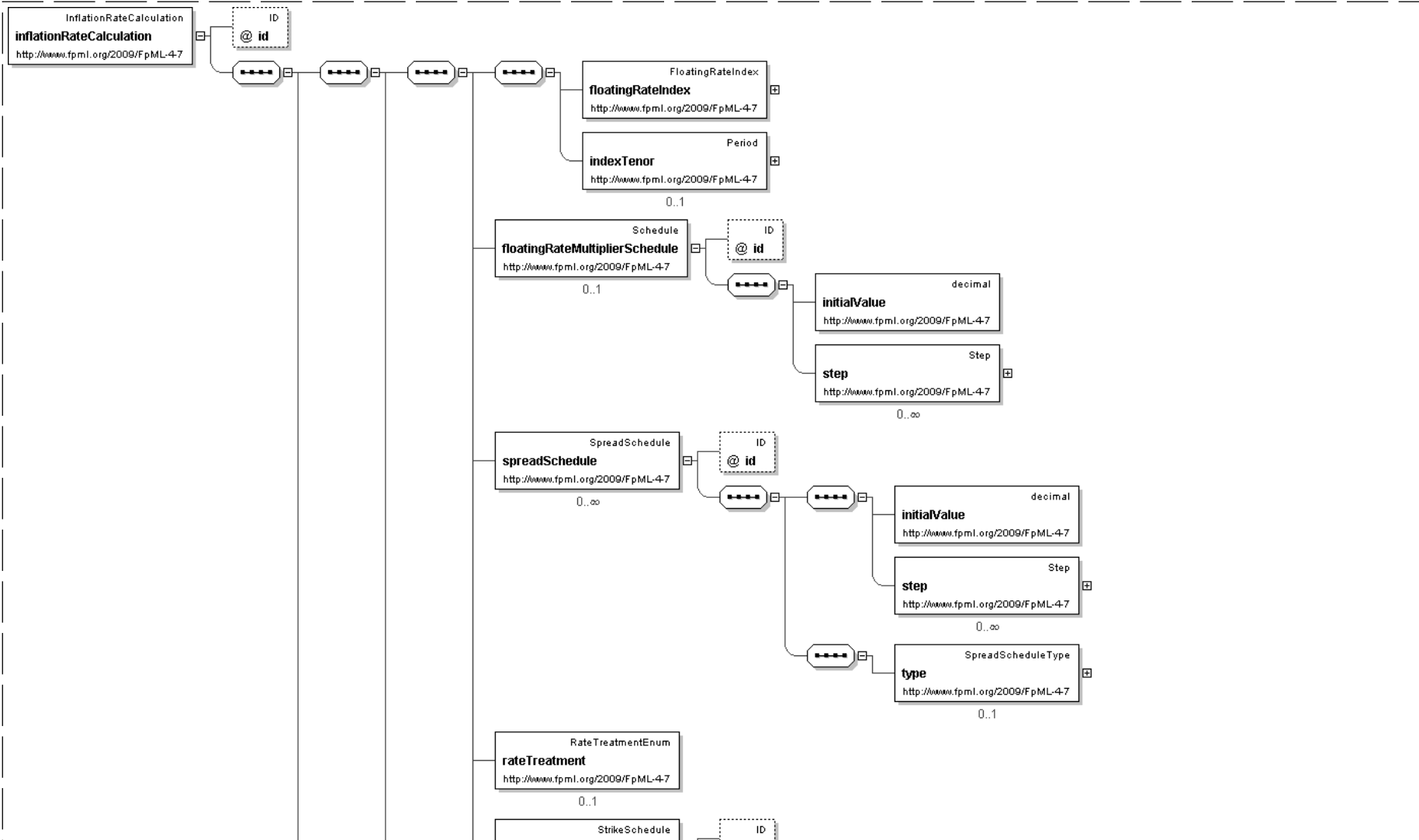


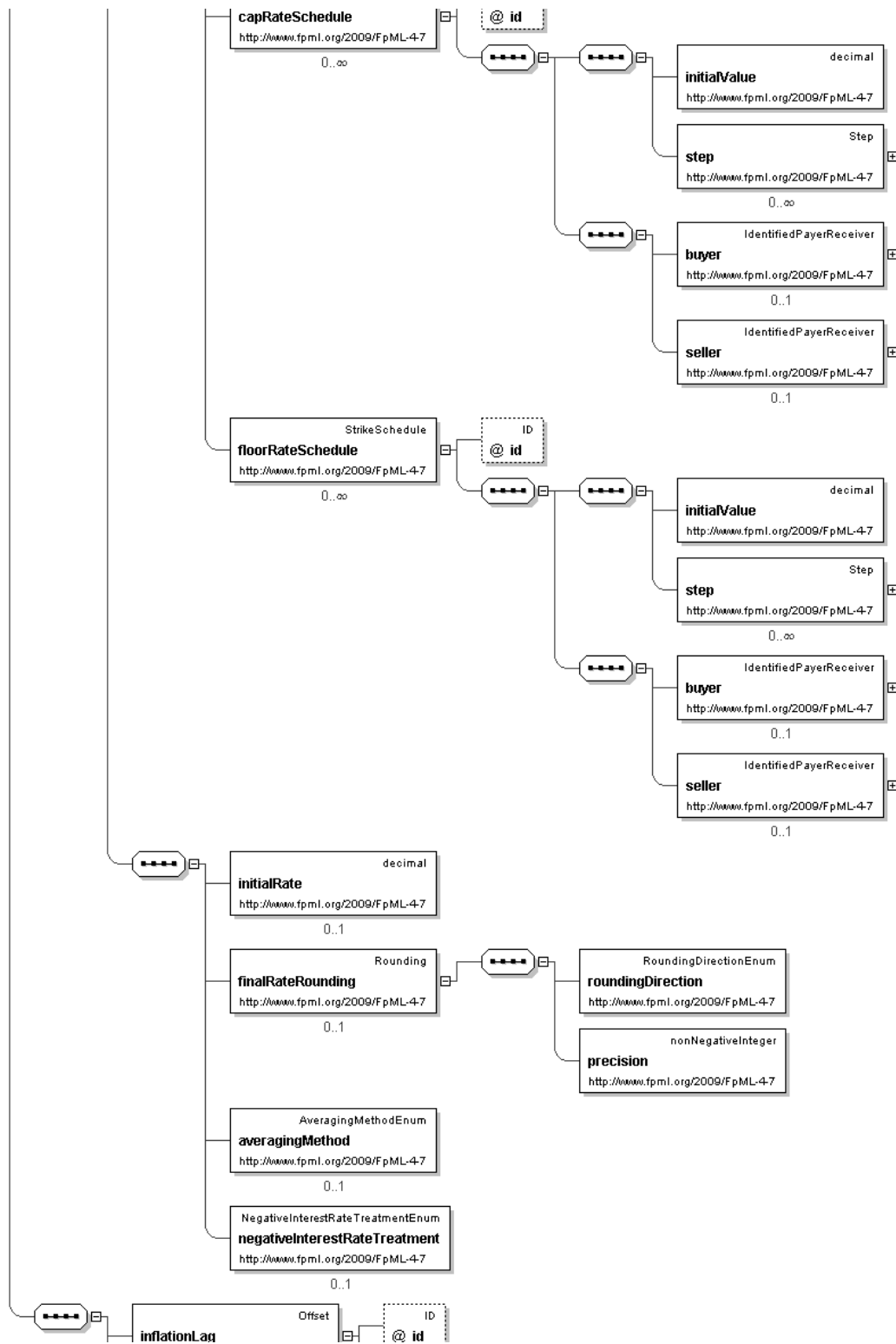
Element: inflationRateCalculation

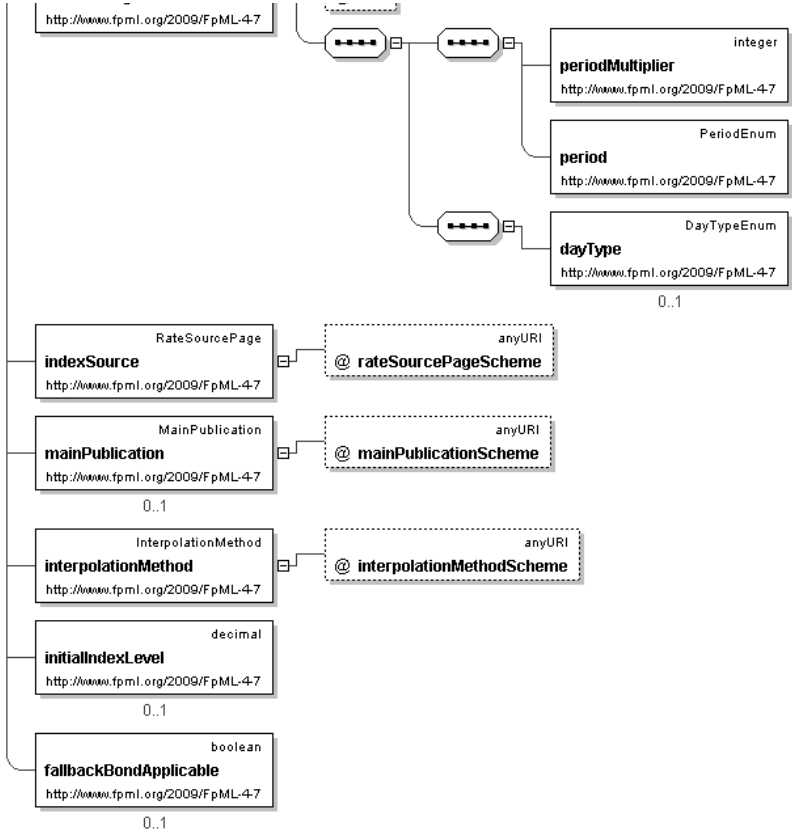
- This element can be used wherever the following element is referenced:
  - rateCalculation

Name	inflationRateCalculation
Type	InflationRateCalculation
Nilable	no
Abstract	no
Documentation	An inflation rate calculation definition.

Logical Diagram







XML Instance Representation

```
<inflationRateCalculation
id=" xsd:ID [0..1]">
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [0..1]

  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

  <floatingRateMultiplierSchedule> Schedule </floatingRateMultiplierSchedule> [0..1]

  'A rate multiplier or multiplier schedule to apply to the floating rate. A multiplier
  schedule is expressed as explicit multipliers and dates. In the case of a schedule, the
  step dates may be subject to adjustment in accordance with any adjustments specified in
  the calculationPeriodDatesAdjustments. The multiplier can be a positive or negative
  decimal. This element should only be included if the multiplier is not equal to 1 (one) for
  the term of the stream.'

  <spreadSchedule> SpreadSchedule </spreadSchedule> [0..*]

  'The ISDA Spread or a Spread schedule expressed as explicit spreads and dates. In the case of
  a schedule, the step dates may be subject to adjustment in accordance with any
  adjustments specified in calculationPeriodDatesAdjustments. The spread is a per annum
  rate, expressed as a decimal. For purposes of determining a calculation period amount,
  if positive the spread will be added to the floating rate and if negative the spread will
  be subtracted from the floating rate. A positive 10 basis point (0.1%) spread would
  be represented as 0.001.'

  <rateTreatment> RateTreatmentEnum </rateTreatment> [0..1]

  'The specification of any rate conversion which needs to be applied to the observed rate
  before being used in any calculations. The two common conversions are for securities quoted
  on a bank discount basis which will need to be converted to either a Money Market Yield or
  Bond Equivalent Yield. See the Annex to the 2000 ISDA Definitions, Section 7.3. Certain
  General Definitions Relating to Floating Rate Options, paragraphs (g) and (h) for
  definitions of these terms.'
```

<capRateSchedule> [StrikeSchedule](#) </capRateSchedule> [0..\*]

'The cap rate or cap rate schedule, if any, which applies to the floating rate. The cap rate (strike) is only required where the floating rate on a swap stream is capped at a certain level. A cap rate schedule is expressed as explicit cap rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The cap rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'

<floorRateSchedule> [StrikeSchedule](#) </floorRateSchedule> [0..\*]

'The floor rate or floor rate schedule, if any, which applies to the floating rate. The floor rate (strike) is only required where the floating rate on a swap stream is floored at a certain strike level. A floor rate schedule is expressed as explicit floor rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The floor rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A floor rate of 5% would be represented as 0.05.'

<initialRate> [xsd:decimal](#) </initialRate> [0..1]

'The initial floating rate reset agreed between the principal parties involved in the trade. This is assumed to be the first required reset rate for the first regular calculation period. It should only be included when the rate is not equal to the rate published on the source implied by the floating rate index. An initial rate of 5% would be represented as 0.05.'

<finalRateRounding> [Rounding](#) </finalRateRounding> [0..1]

'The rounding convention to apply to the final rate used in determination of a calculation period amount.'

<averagingMethod> [AveragingMethodEnum](#) </averagingMethod> [0..1]

'If averaging is applicable, this component specifies whether a weighted or unweighted average method of calculation is to be used. The component must only be included when averaging applies.'

<negativeInterestRateTreatment> [NegativeInterestRateTreatmentEnum](#)

</negativeInterestRateTreatment> [0..1]

'The specification of any provisions for calculating payment obligations when a floating rate is negative (either due to a quoted negative floating rate or by operation of a spread that is subtracted from the floating rate).'

<inflationLag> [Offset](#) </inflationLag> [1]

'an offsetting period from the payment date which determines the reference period for which the inflation index is observed.'

<indexSource> [RateSourcePage](#) </indexSource> [1]

'The reference source such as Reuters or Bloomberg.'

<mainPublication> [MainPublication](#) </mainPublication> [0..1]

'The current main publication source such as relevant web site or a government body.'

<interpolationMethod> [InterpolationMethod](#) </interpolationMethod> [1]

'The method used when calculating the Inflation Index Level from multiple points - the most common is Linear.'

<initialIndexLevel> [xsd:decimal](#) </initialIndexLevel> [0..1]

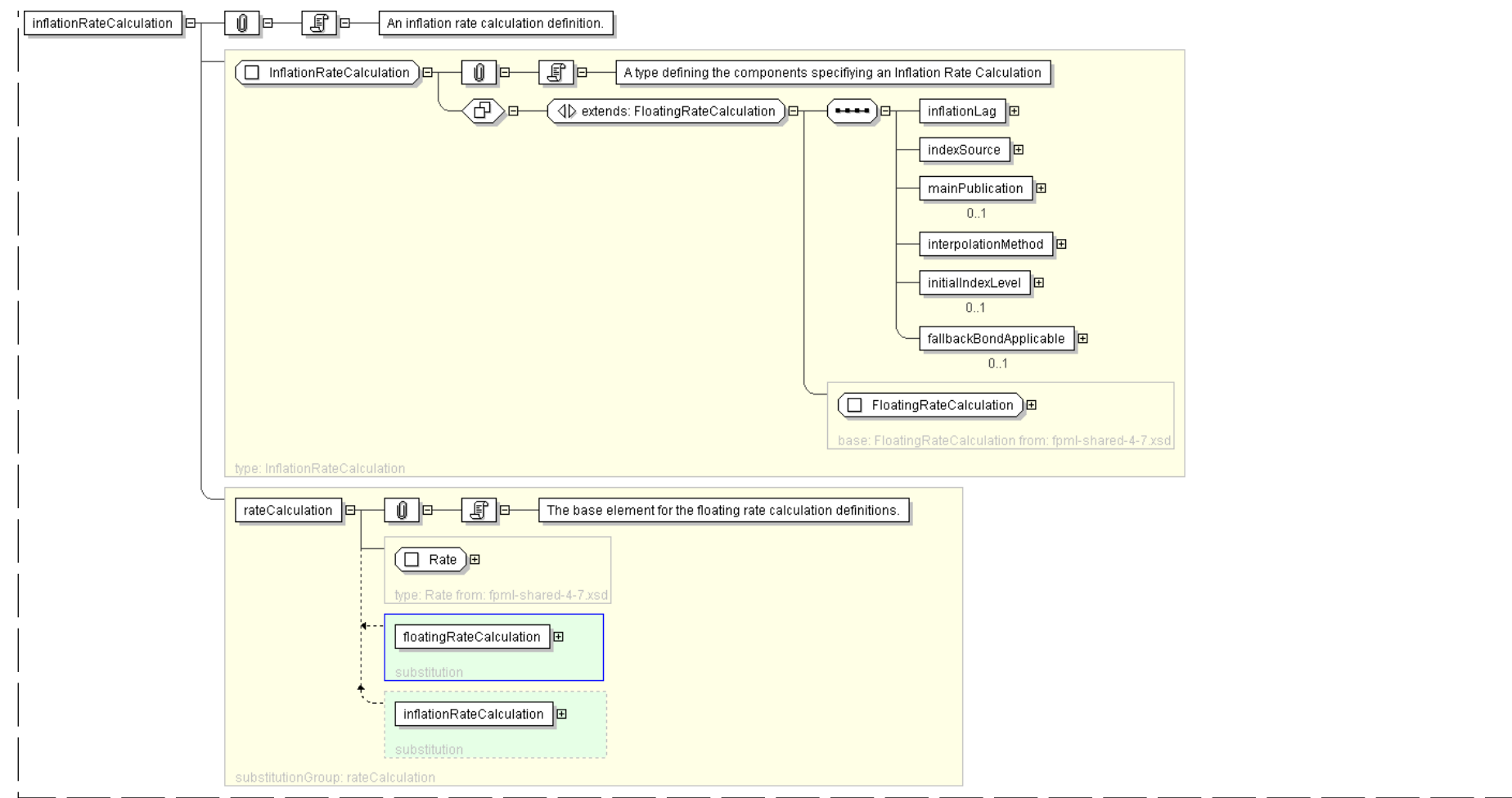
'initial known index level for the first calculation period.'

<fallbackBondApplicable> [xsd:boolean](#) </fallbackBondApplicable> [0..1]

'The applicability of a fallback bond as defined in the 2006 ISDA Inflation Derivatives Definitions, sections 1.3 and 1.8. Omission of this element implies a value of true.'

</inflationRateCalculation>

Diagram



Schema Component Representation

```
<xsd:element name="inflationRateCalculation" type="InflationRateCalculation" substitutionGroup="rateCalculation"/>
```

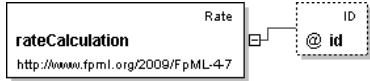
Element: **rateCalculation**

- The following elements can be used wherever this element is referenced:
  - [floatingRateCalculation](#)
  - [inflationRateCalculation](#)

Name	rateCalculation
Used by (from the same schema document)	Complex Type <a href="#">Calculation</a>
Type	<a href="#">Rate</a>
Nilable	no
Abstract	yes
Documentation	The base element for the floating rate calculation definitions.

Logical Diagram

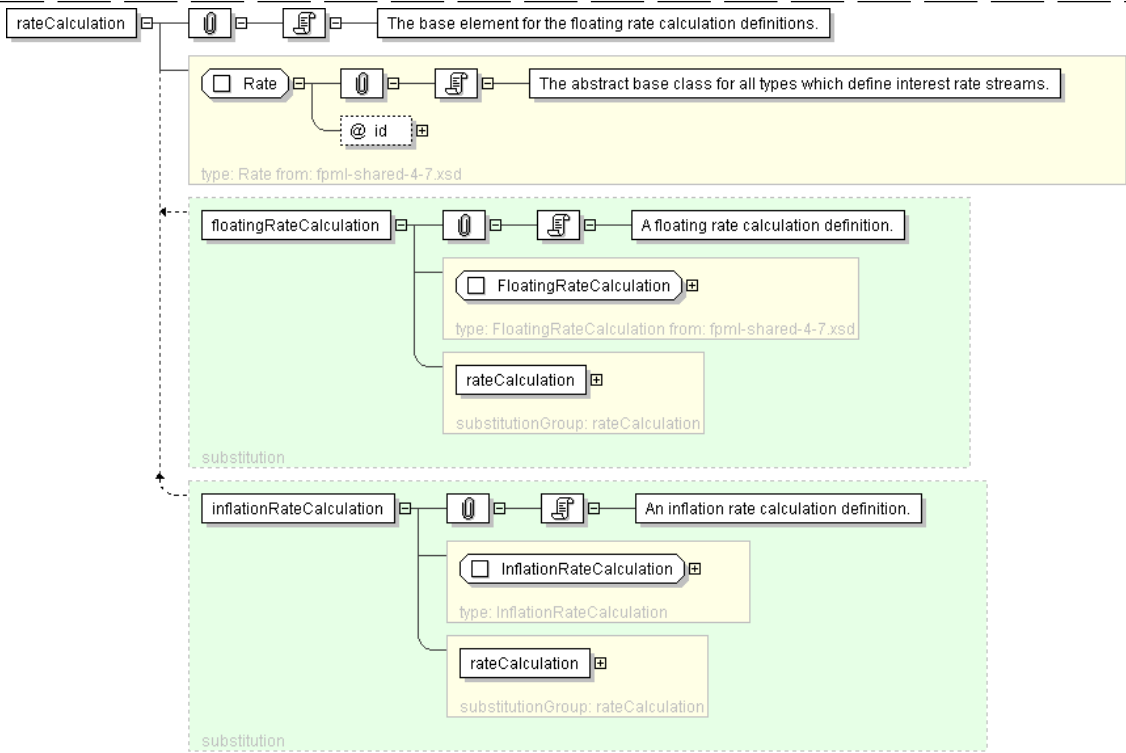




XML Instance Representation

```
<rateCalculation
id="xsd:ID [0..1]"/>
```

Diagram



Schema Component Representation

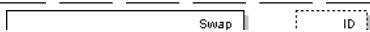
```
<xsd:element name="rateCalculation" type="Rate" abstract="true"/>
```

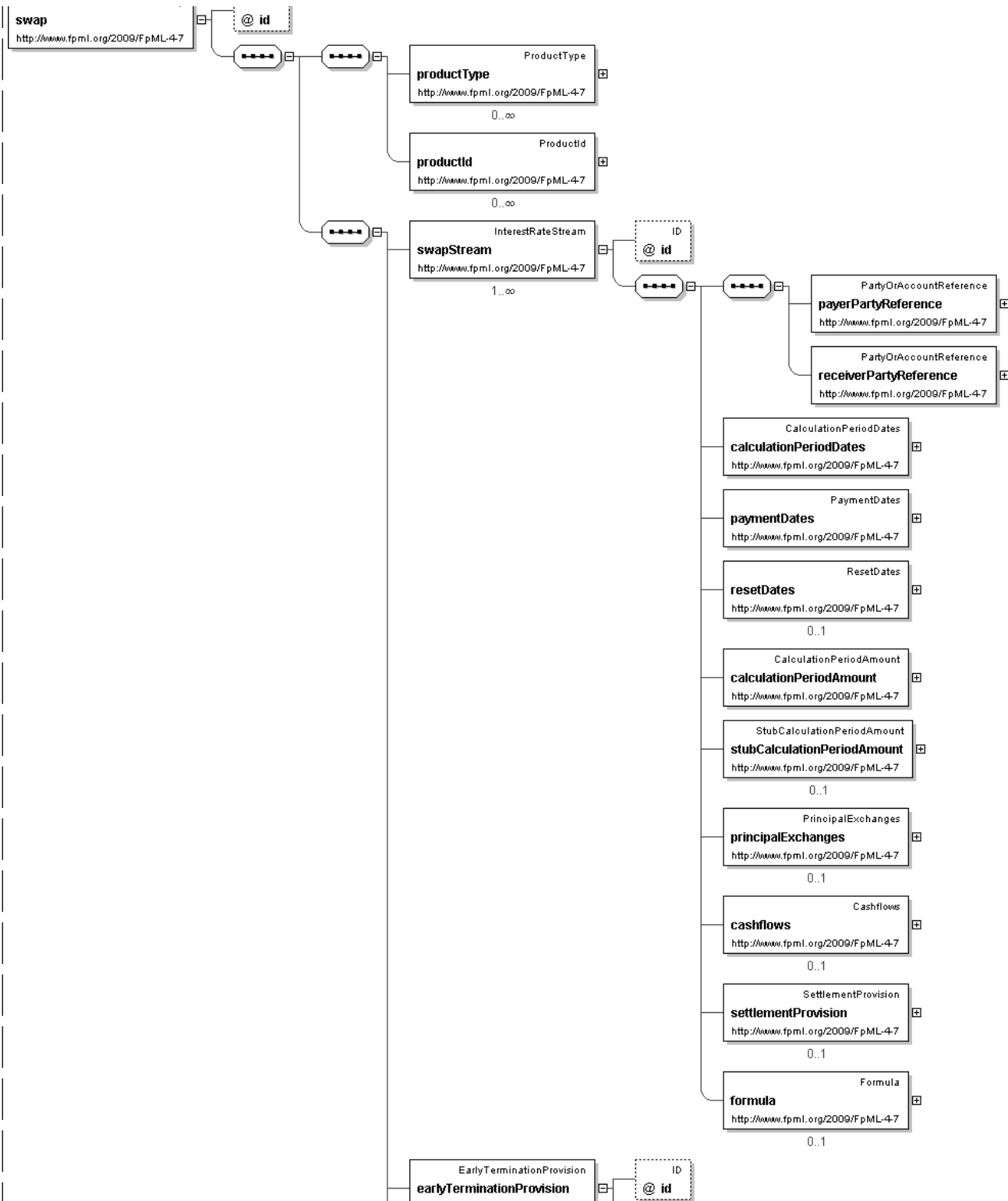
Element: **swap**

- This element can be used wherever the following element is referenced:
  - [product](#)

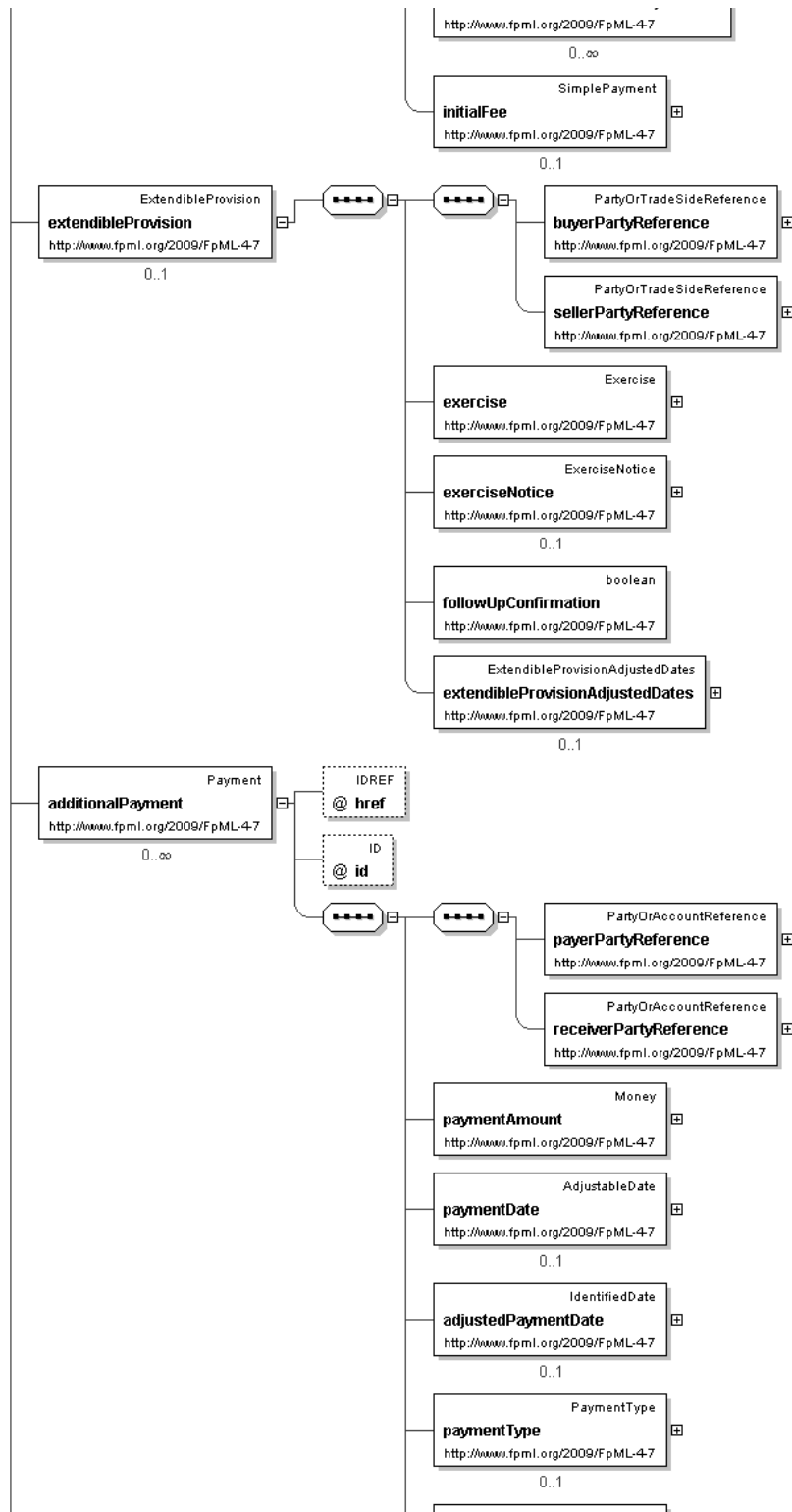
Name	swap
Used by (from the same schema document)	Complex Type <a href="#">Swaption</a>
Type	<a href="#">Swap</a>
Nilable	no
Abstract	no
Documentation	A swap product definition.

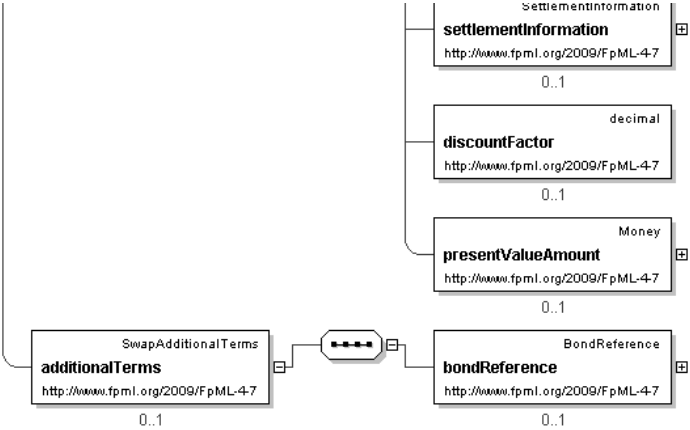
Logical Diagram











XML Instance Representation

```
<swap
id=" xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <swapStream> InterestRateStream </swapStream> [1..*]
  'The swap streams.'

  <earlyTerminationProvision> EarlyTerminationProvision </earlyTerminationProvision> [0..1]
  'Parameters specifying provisions relating to the optional and mandatory early termination of
  a swap transaction.'

  <cancelableProvision> CancelableProvision </cancelableProvision> [0..1]
  'A provision that allows the specification of an embedded option within a swap giving the
  buyer of the option the right to terminate the swap, in whole or in part, on the
  early termination date.'

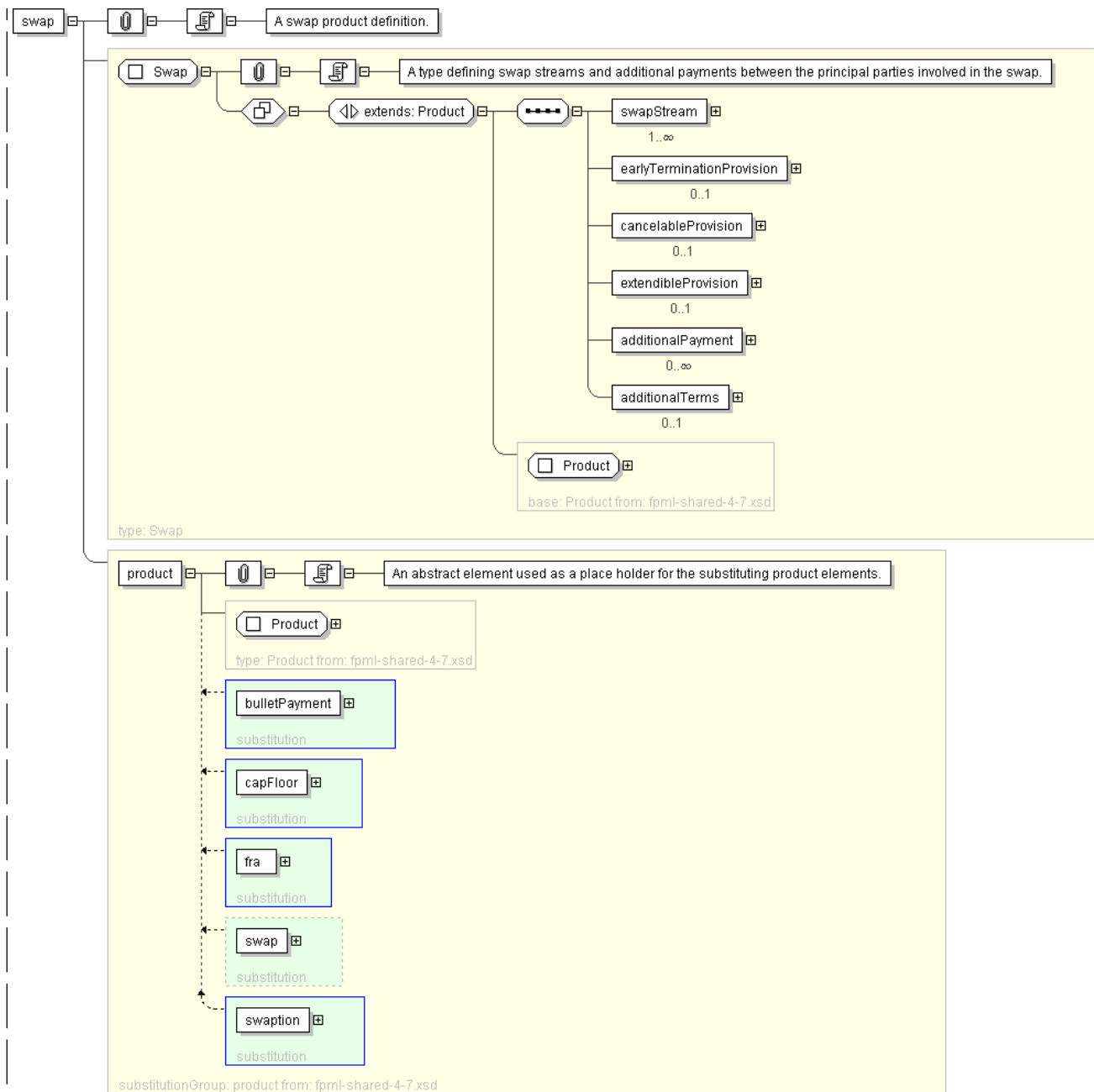
  <extendibleProvision> ExtendibleProvision </extendibleProvision> [0..1]
  'A provision that allows the specification of an embedded option with a swap giving the
  buyer of the option the right to extend the swap, in whole or in part, to the
  extended termination date.'

  <additionalPayment> Payment </additionalPayment> [0..*]
  'Additional payments between the principal parties.'

  <additionalTerms> SwapAdditionalTerms </additionalTerms> [0..1]
  'Contains any additional terms to the swap contract.'

</swap>
```

Diagram

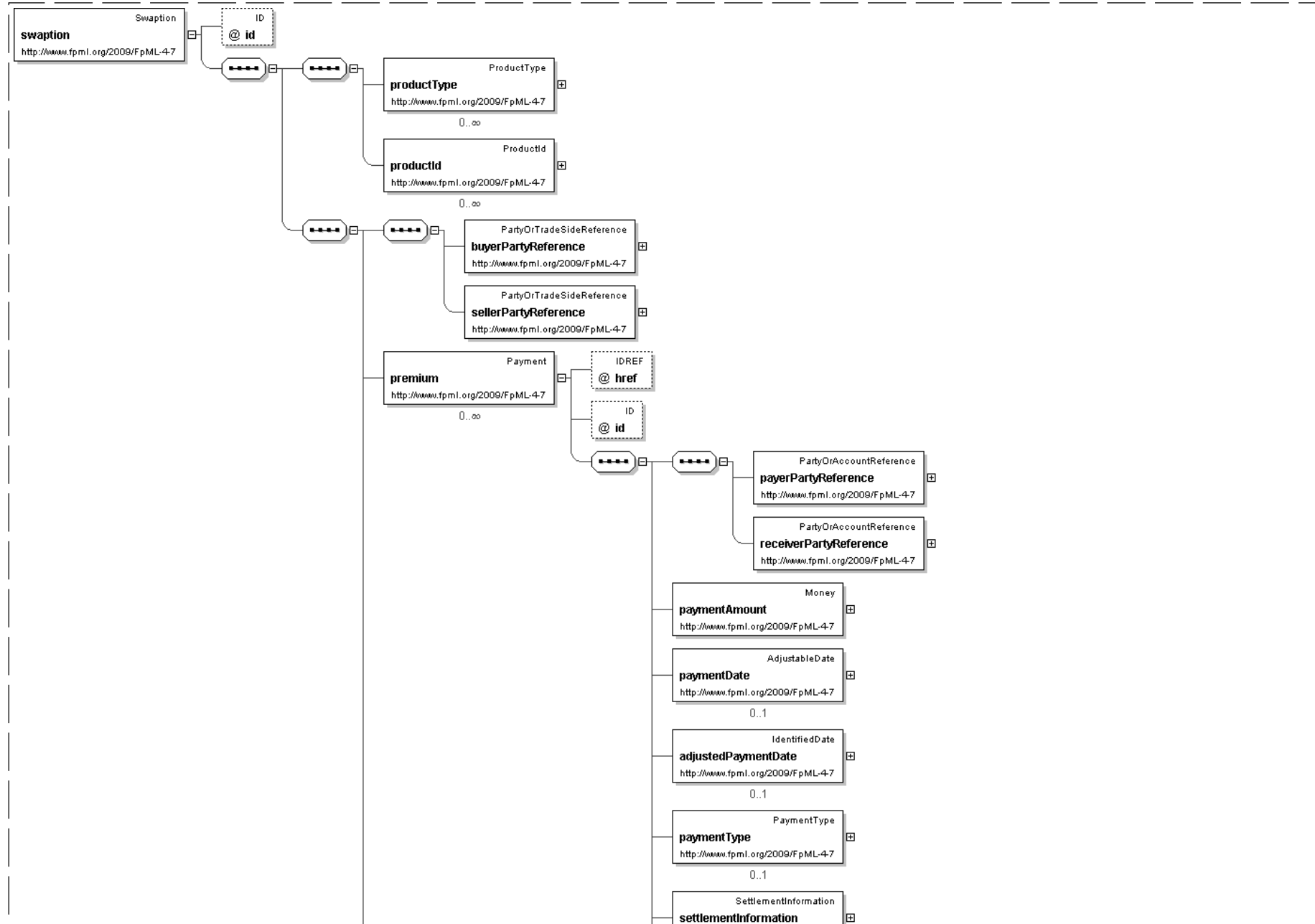


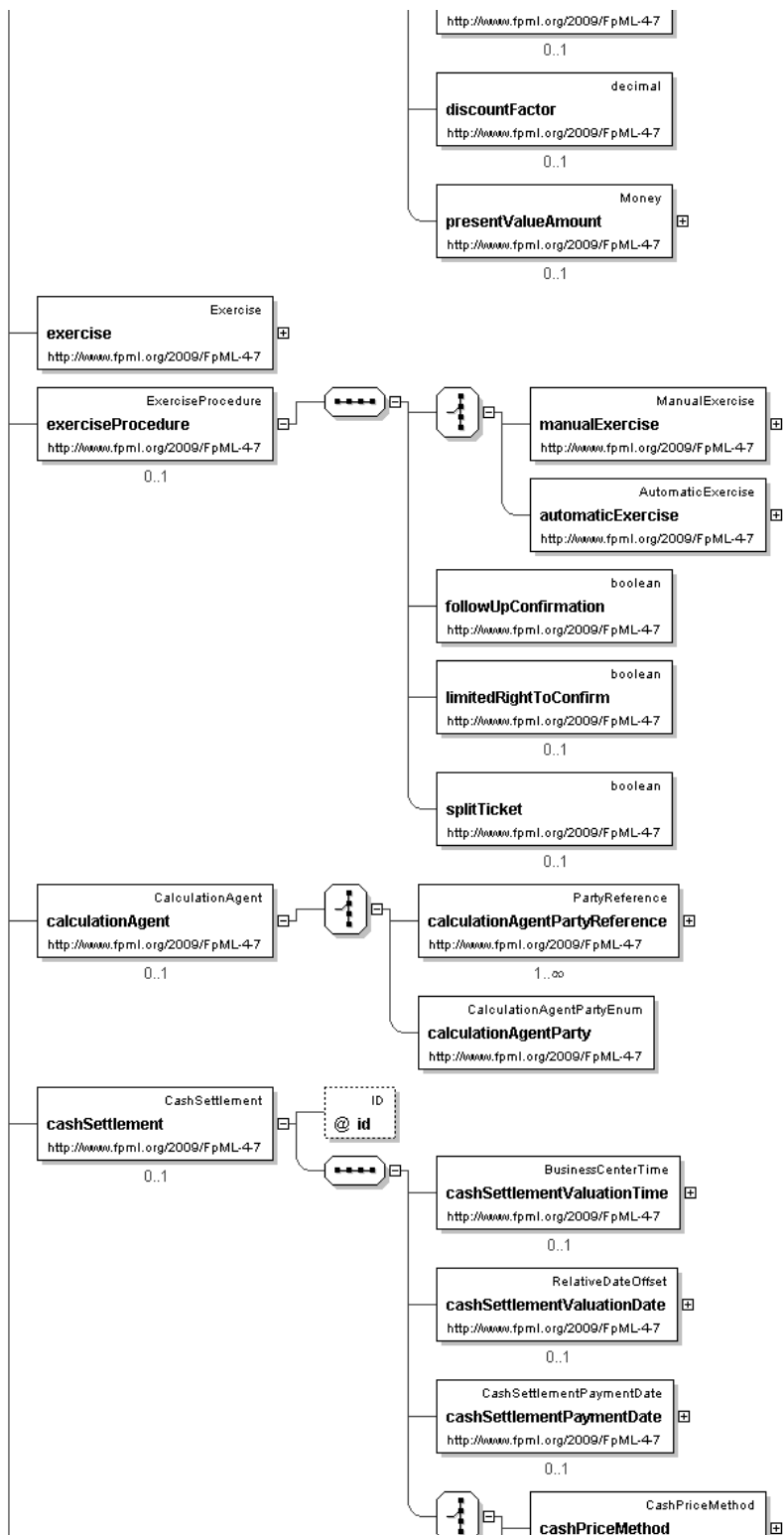
- This element can be used wherever the following element is referenced:

- [product](#)

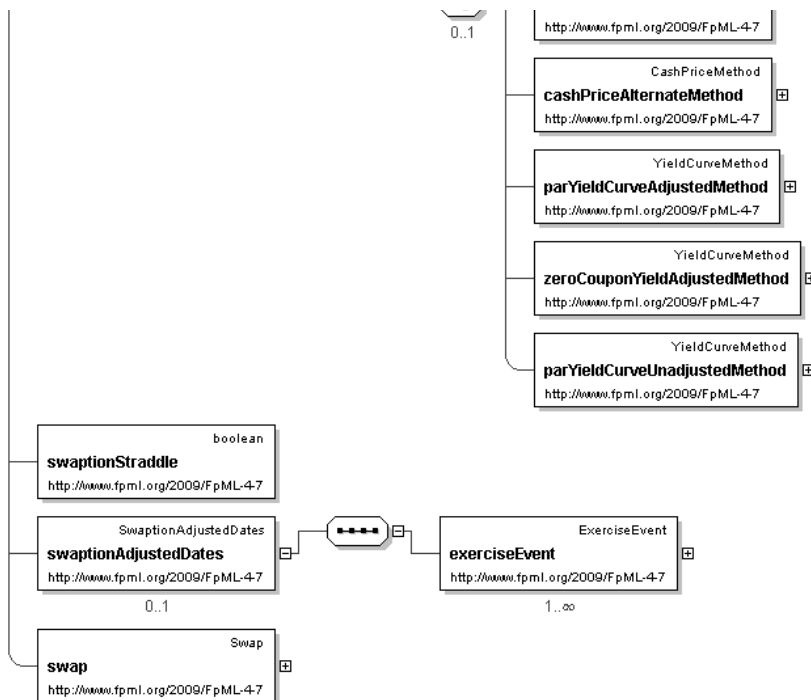
<b>Name</b>	swaption
<b>Type</b>	<a href="#">Swaption</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	A swaption product definition.

#### Logical Diagram









### XML Instance Representation

```
<swaption
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, i.e. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <premium> Payment </premium> [0..*]
  'The option premium amount payable by buyer to seller on the specified payment date.'

  <exercise> ... </exercise> [1]
  <exerciseProcedure> ExerciseProcedure </exerciseProcedure> [0..1]
  'A set of parameters defining procedures associated with the exercise.'

  <calculationAgent> CalculationAgent </calculationAgent> [0..1]
  'The ISDA Calculation Agent responsible for performing duties associated with an optional early termination.'

  <cashSettlement> CashSettlement </cashSettlement> [0..1]
  'If specified, this means that cash settlement is applicable to the transaction and defines
```

the parameters associated with the cash settlement procedure. If not specified, then physical settlement is applicable.'

```
<swaptionStraddle> xsd:boolean </swaptionStraddle> [1]
```

'Whether the option is a swaption or a swaption straddle.'

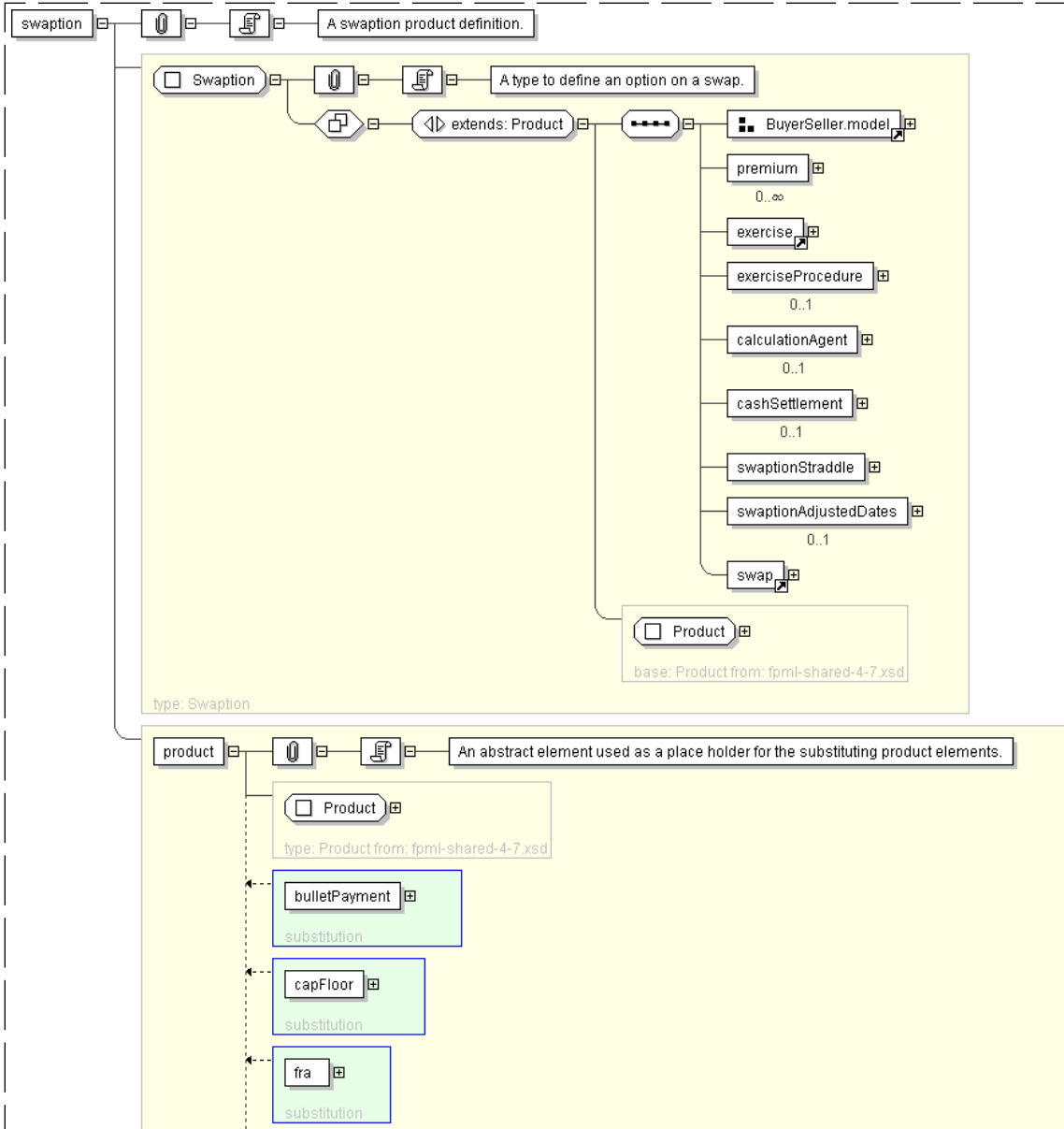
```
<swaptionAdjustedDates> SwaptionAdjustedDates </swaptionAdjustedDates> [0..1]
```

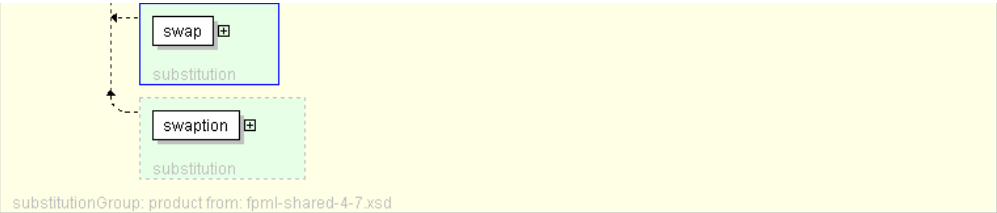
'The adjusted dates associated with swaption exercise. These dates have been adjusted for any applicable business day convention.'

```
<swap> ... </swap> [1]
```

| &lt;/swaption&gt;

### Diagram





Schema Component Representation

```
<xsd:element name="swaption" type=" Swaption " substitutionGroup="product"/>
```

[top](#)

Global Definitions

Complex Type: BondReference

Super-types:	None
Sub-types:	None
Name	BondReference
Used by (from the same schema document)	Complex Type <a href="#">SwapAdditionalTerms</a>
Abstract	no
Documentation	A type including a reference to a bond to support the representation of an asset swap or Condition Precedent Bond.

XML Instance Representation

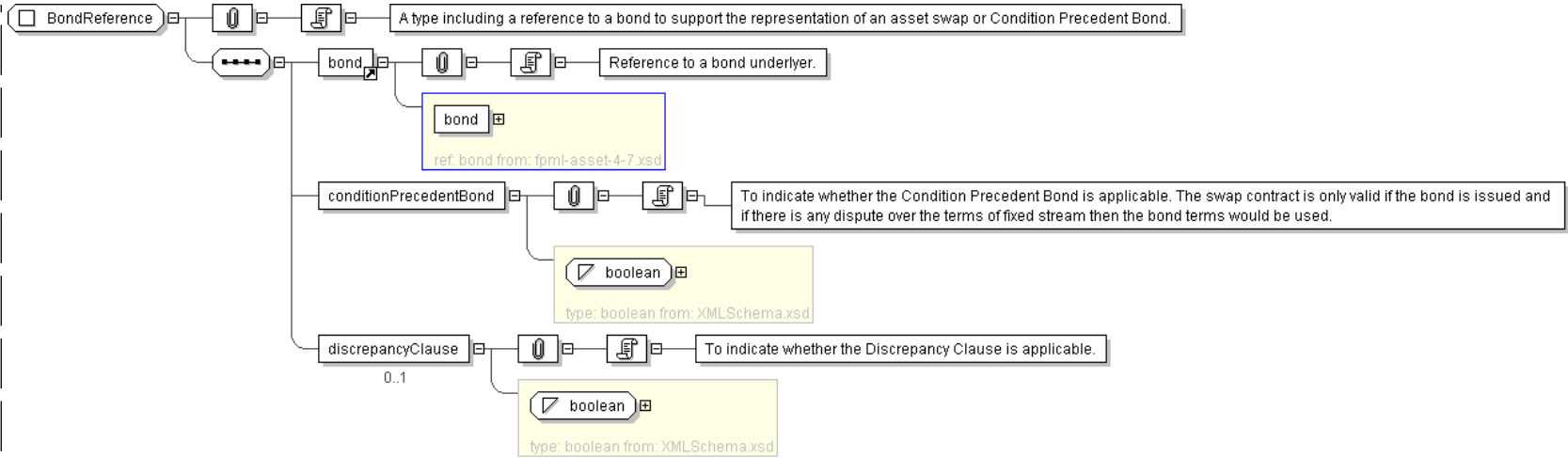
```
<...>
  <bond> ... </bond> [1]
  'Reference to a bond underlyer.'

  <conditionPrecedentBond> xsd:boolean </conditionPrecedentBond> [1]
  'To indicate whether the Condition Precedent Bond is applicable. The swap contract is
  only valid if the bond is issued and if there is any dispute over the terms of fixed
  stream then the bond terms would be used.'

  <discrepancyClause> xsd:boolean </discrepancyClause> [0..1]
  'To indicate whether the Discrepancy Clause is applicable.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BondReference">
  <xsd:sequence>
    <xsd:element ref="bond" />
    <xsd:element name="conditionPrecedentBond" type="xsd:boolean" />
    <xsd:element name="discrepancyClause" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **BulletPayment**

Super-types:	<a href="#">Product</a> < <b>BulletPayment</b> (by extension)
Sub-types:	None

Name	BulletPayment
Used by (from the same schema document)	Element <a href="#">bulletPayment</a>
Abstract	no
Documentation	A product to represent a single cashflow.

XML Instance Representation

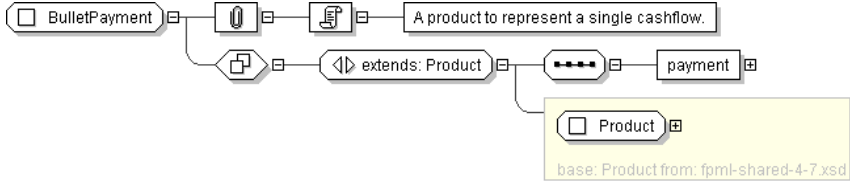
```
<...
id="xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <payment> Payment </payment> [1]
  'A known payment between two parties.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BulletPayment">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:element name="payment" type=" Payment " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: Calculation

Super-types:	None
Sub-types:	None

Name	Calculation
Used by (from the same schema document)	Complex Type <a href="#">CalculationPeriodAmount</a>
Abstract	no
Documentation	A type defining the parameters used in the calculation of fixed or floating calculation period amounts.

XML Instance Representation

```
<...>
Start Choice [1]
  <notionalSchedule> Notional </notionalSchedule> [1]
  'The notional amount or notional amount schedule.'

  <fxLinkedNotionalSchedule> FxLinkedNotionalSchedule </fxLinkedNotionalSchedule> [1]
  'A notional amount schedule where each notional that applied to a calculation period
  is calculated with reference to a notional amount or notional amount schedule in a
  different currency by means of a spot currency exchange rate which is normally observed at
  the beginning of each period.'

End Choice
Start Choice [1]
  <fixedRateSchedule> Schedule </fixedRateSchedule> [1]
  'The fixed rate or fixed rate schedule expressed as explicit fixed rates and dates. In the
  case of a schedule, the step dates may be subject to adjustment in accordance with
  any adjustments specified in calculationPeriodDatesAdjustments.'

  <futureValueNotional> FutureValueAmount </futureValueNotional> [0..1]
  'The future value notional is normally only required for BRL CDI Swaps. The value is
  calculated as follows: Future Value Notional = Notional Amount * (1 + Fixed Rate) ^ (Fixed
  Rate Day Count Fraction). The currency should always match that expressed in the
  notional schedule. The value date should match the adjusted termination date.'

  <rateCalculation> ... </rateCalculation> [1]
  'This element is the head of a substitution group. It is substituted by
  the floatingRateCalculation element for standard Floating Rate legs, or
  the inflationRateCalculation element for inflation swaps.'

End Choice
  <dayCountFraction> DayCountFraction </dayCountFraction> [1]
  'The day count fraction.'
```

```
<discounting> Discounting </discounting> [0..1]
```

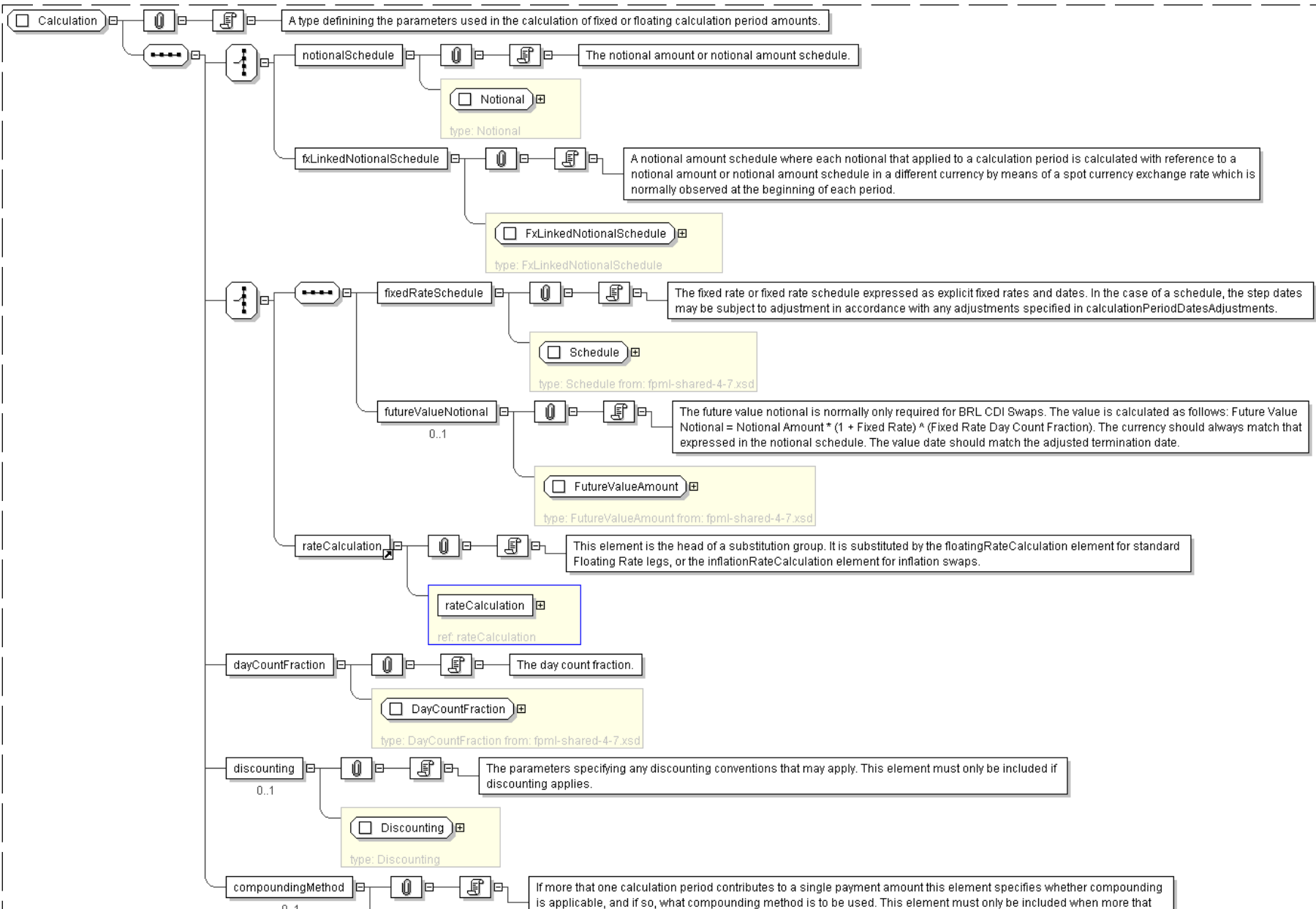
'The parameters specifying any discounting conventions that may apply. This element must only be included if discounting applies.'

```
<compoundingMethod> CompoundingMethodEnum </compoundingMethod> [0..1]
```

'If more that one calculation period contributes to a single payment amount this element specifies whether compounding is applicable, and if so, what compounding method is to be used. This element must only be included when more that one calculation period contributes to a single payment amount.'

```
</...>
```

## Diagram



0..1

one calculation period contributes to a single payment amount.

CompoundingMethodEnum

type: CompoundingMethodEnum from: fpml-enum-4-7.xsd

Schema Component Representation

```
<xsd:complexType name="Calculation">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="notionalSchedule" type=" Notional " />
      <xsd:element name="fxLinkedNotionalSchedule" type=" FxLinkedNotionalSchedule " />
    </xsd:choice>
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="fixedRateSchedule" type=" Schedule " />
        <xsd:element name="futureValueNotional" type=" FutureValueAmount " minOccurs="0"/>
      </xsd:sequence>
      <xsd:element ref=" rateCalculation " />
    </xsd:choice>
    <xsd:element name="dayCountFraction" type=" DayCountFraction " />
    <xsd:element name="discounting" type=" Discounting " minOccurs="0"/>
    <xsd:element name="compoundingMethod" type=" CompoundingMethodEnum " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: CalculationPeriod

Super-types:	None
Sub-types:	None

Name	CalculationPeriod
Used by (from the same schema document)	Complex Type <a href="#">PaymentCalculationPeriod</a>
Abstract	no
Documentation	A type defining the parameters used in the calculation of a fixed or floating rate calculation period amount. This type forms part of cashflows representation of a swap stream.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <unadjustedStartDate> xsd:date </unadjustedStartDate> [0..1]
  <unadjustedEndDate> xsd:date </unadjustedEndDate> [0..1]
  <adjustedStartDate> xsd:date </adjustedStartDate> [0..1]
  'The calculation period start date, adjusted according to any relevant business day convention.'

  <adjustedEndDate> xsd:date </adjustedEndDate> [0..1]
  'The calculation period end date, adjusted according to any relevant business day convention.'

  <calculationPeriodNumberOfDays> xsd:positiveInteger </calculationPeriodNumberOfDays> [0..1]
  'The number of days from the adjusted effective / start date to the adjusted termination /
  end date calculated in accordance with the applicable day count fraction.'

  Start Choice [1]
    <notionalAmount> xsd:decimal </notionalAmount> [1]
    'The amount that a cashflow will accrue interest on.'

    <fxLinkedNotionalAmount> FxLinkedNotionalAmount </fxLinkedNotionalAmount> [1]
    'The amount that a cashflow will accrue interest on. This is the calculated amount of the
    fx linked - ie the other currency notional amount multiplied by the appropriate fx spot rate.'

  End Choice
  Start Choice [1]
  ...
</...>
```

```
<floatingRateDefinition> FloatingRateDefinition </floatingRateDefinition> [1]
```

'The floating rate reset information for the calculation period.'

```
<fixedRate> xsd:decimal </fixedRate> [1]
```

'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate of 5% would be represented as 0.05.'

End Choice

```
<dayCountYearFraction> xsd:decimal </dayCountYearFraction> [0..1]
```

'The year fraction value of the calculation period, result of applying the ISDA rules for day count fraction defined in the ISDA Annex.'

```
<forecastAmount> Money </forecastAmount> [0..1]
```

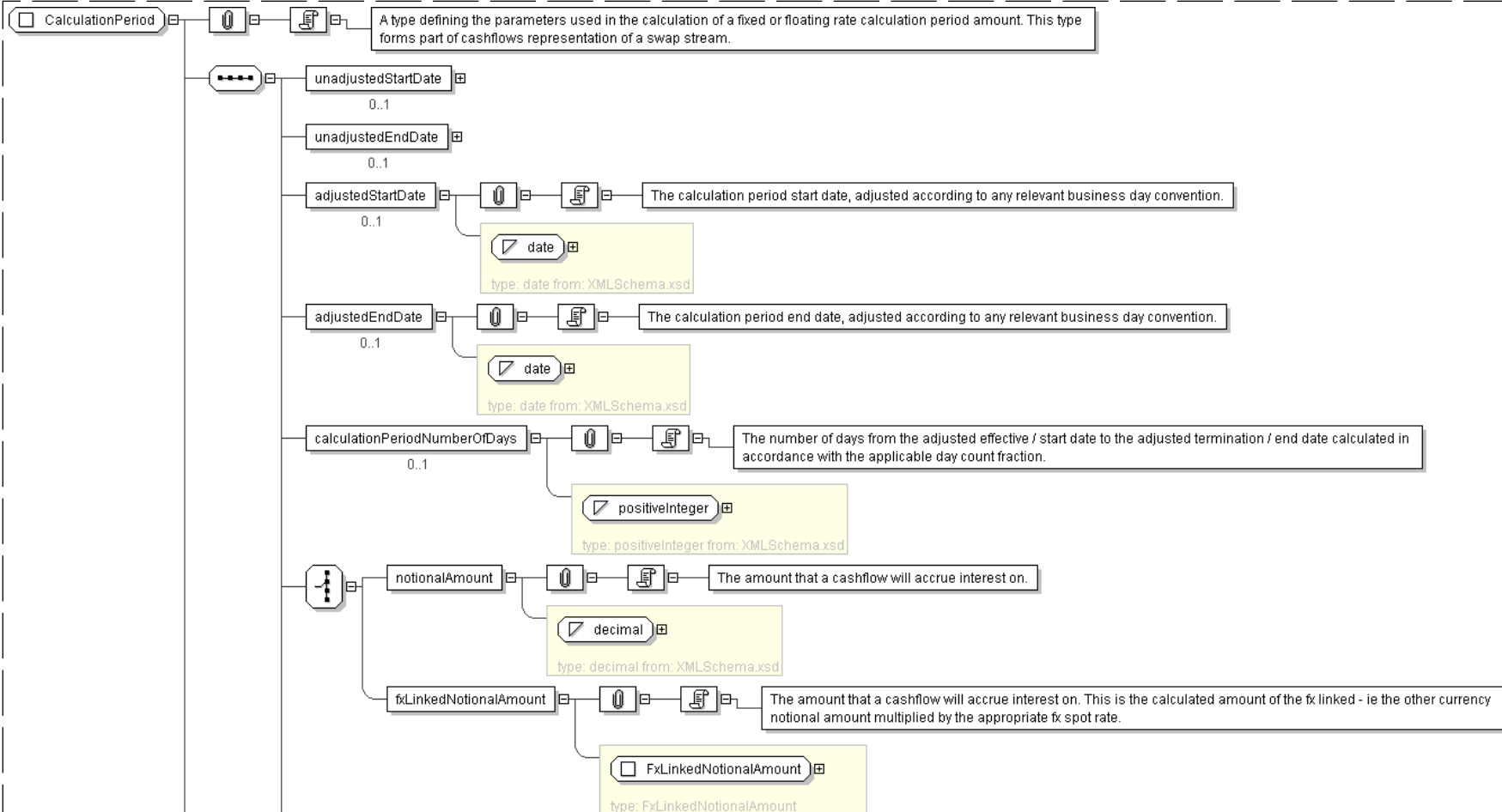
'The amount representing the forecast of the accrued value of the calculation period. An intermediate value used to generate the forecastPaymentAmount in the PaymentCalculationPeriod.'

```
<forecastRate> xsd:decimal </forecastRate> [0..1]
```

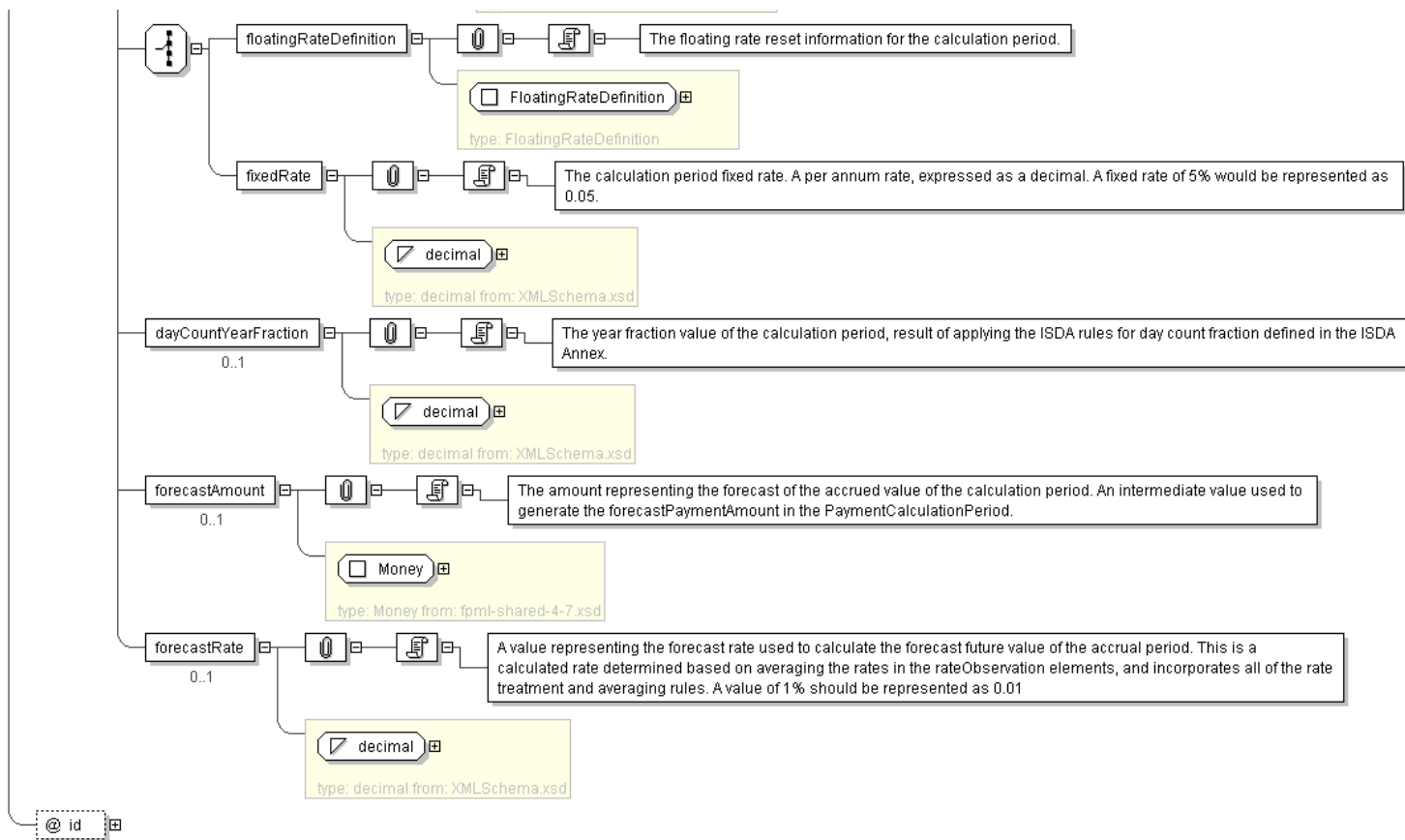
'A value representing the forecast rate used to calculate the forecast future value of the accrual period. This is a calculated rate determined based on averaging the rates in the rateObservation elements, and incorporates all of the rate treatment and averaging rules. A value of 1% should be represented as 0.01'

</...>

## Diagram







### Schema Component Representation

```
<xsd:complexType name="CalculationPeriod">
  <xsd:sequence>
    <xsd:element name="unadjustedStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="unadjustedEndDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedEndDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="calculationPeriodNumberOfDays" type="xsd:positiveInteger" minOccurs="0"/>
    <xsd:choice>
      <xsd:element name="notionalAmount" type="xsd:decimal" />
      <xsd:element name="fxLinkedNotionalAmount" type="FxLinkedNotionalAmount" />
    </xsd:choice>
    <xsd:choice>
      <xsd:element name="floatingRateDefinition" type="FloatingRateDefinition" />
      <xsd:element name="fixedRate" type="xsd:decimal" />
    </xsd:choice>
    <xsd:element name="dayCountYearFraction" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="forecastAmount" type="Money" minOccurs="0"/>
    <xsd:element name="forecastRate" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

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### Complex Type: CalculationPeriodAmount

Super-types:	None
Sub-types:	None
Name	CalculationPeriodAmount
Used by (from the same schema document)	Complex Type <a href="#">InterestRateStream</a>
Abstract	no
Documentation	A type defining the parameters used in the calculation of fixed or floating rate calculation period amounts or for specifying a known calculation period amount or known amount schedule.

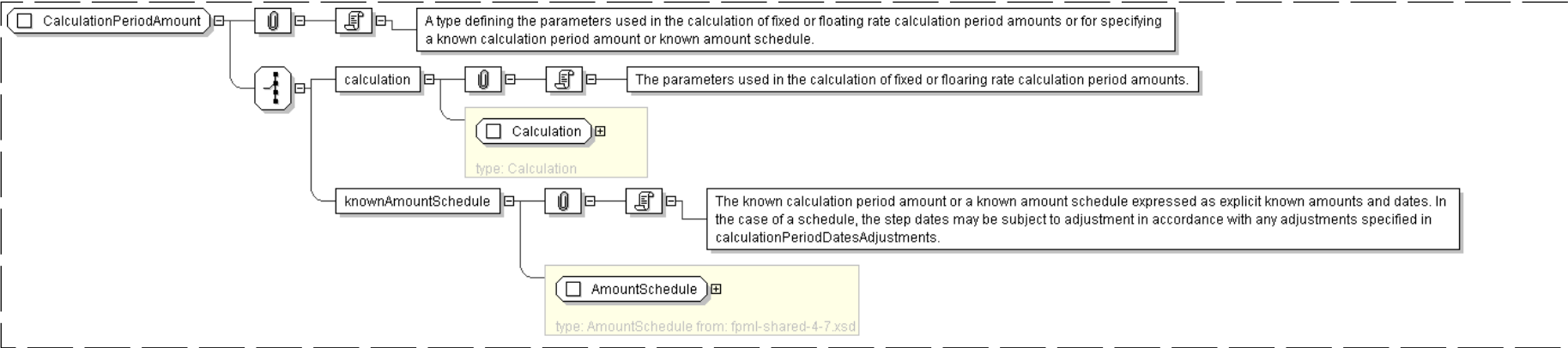
XML Instance Representation

```
<...>
Start Choice [1]
<calculation> Calculation </calculation> [1]
  'The parameters used in the calculation of fixed or floating rate calculation period amounts.'

<knownAmountSchedule> AmountSchedule </knownAmountSchedule> [1]
  'The known calculation period amount or a known amount schedule expressed as explicit
  known amounts and dates. In the case of a schedule, the step dates may be subject to
  adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationPeriodAmount">
  <xsd:choice>
    <xsd:element name="calculation" type="Calculation" />
    <xsd:element name="knownAmountSchedule" type="AmountSchedule" />
  </xsd:choice>
</xsd:complexType>
```

Complex Type: CalculationPeriodDates

Super-types:	None
Sub-types:	None
Name	CalculationPeriodDates
Used by (from the same schema document)	Complex Type <a href="#">InterestRateStream</a>
Abstract	no

Documentation

A type defining the parameters used to generate the calculation period dates schedule, including the specification of any initial or final stub calculation periods. A calculation period schedule consists of an optional initial stub calculation period, one or more regular calculation periods and an optional final stub calculation period. In the absence of any initial or final stub calculation periods, the regular part of the calculation period schedule is assumed to be between the effective date and the termination date. No implicit stubs are allowed, i.e. stubs must be explicitly specified using an appropriate combination of firstPeriodStartDate, firstRegularPeriodStartDate and lastRegularPeriodEndDate.

XML Instance Representation

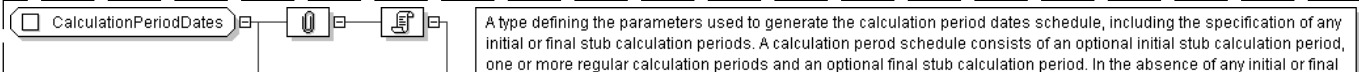
```
<...
id=" xsd:ID [1]">
Start Choice [1]
  <effectiveDate> AdjustableDate </effectiveDate> [1]
  'The first day of the term of the trade. This day may be subject to adjustment in
  accordance with a business day convention.'

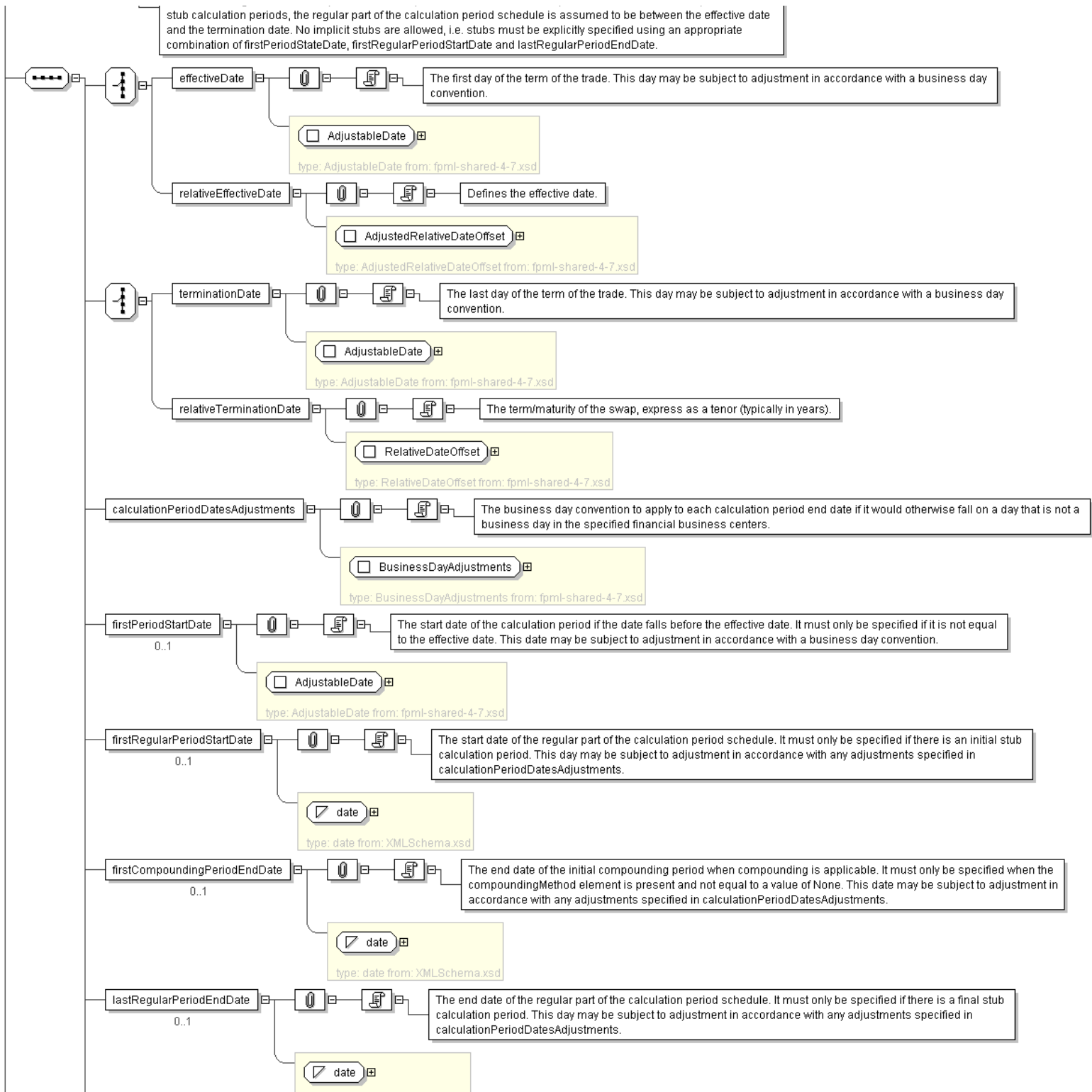
  <relativeEffectiveDate> AdjustedRelativeDateOffset </relativeEffectiveDate> [1]
  'Defines the effective date.'

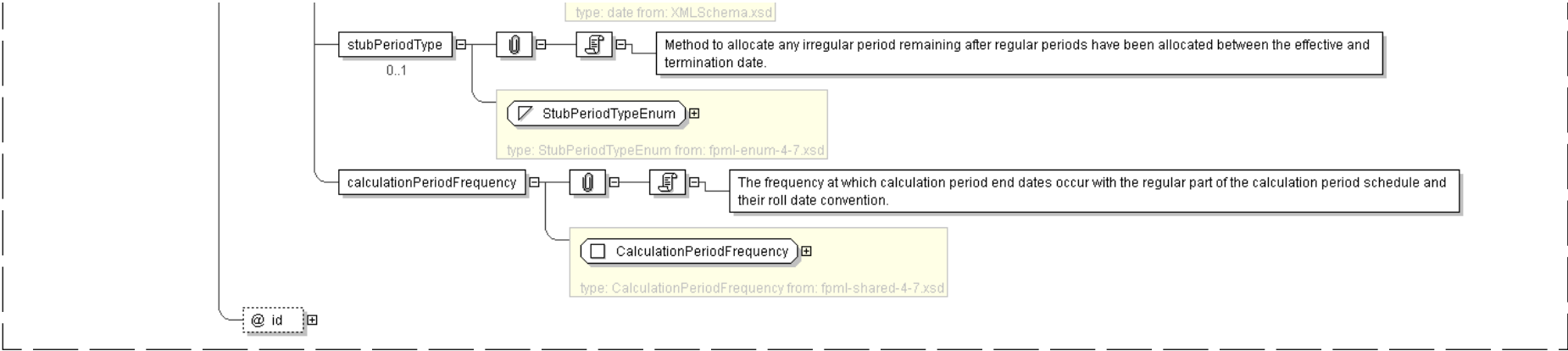
End Choice
Start Choice [1]
  <terminationDate> AdjustableDate </terminationDate> [1]
  'The last day of the term of the trade. This day may be subject to adjustment in
  accordance with a business day convention.'

  <relativeTerminationDate> RelativeDateOffset </relativeTerminationDate> [1]
  'The term/maturity of the swap, express as a tenor (typically in years).'
```

Diagram







Schema Component Representation

```
<xsd:complexType name="CalculationPeriodDates">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="effectiveDate" type="AdjustableDate" />
      <xsd:element name="relativeEffectiveDate" type="AdjustedRelativeDateOffset" />
    </xsd:choice>
    <xsd:choice>
      <xsd:element name="terminationDate" type="AdjustableDate" />
      <xsd:element name="relativeTerminationDate" type="RelativeDateOffset" />
    </xsd:choice>
    <xsd:element name="calculationPeriodDatesAdjustments" type="BusinessDayAdjustments" />
    <xsd:element name="firstPeriodStartDate" type="AdjustableDate" minOccurs="0"/>
    <xsd:element name="firstRegularPeriodStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="firstCompoundingPeriodEndDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="lastRegularPeriodEndDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="stubPeriodType" type="StubPeriodTypeEnum" minOccurs="0"/>
    <xsd:element name="calculationPeriodFrequency" type="CalculationPeriodFrequency" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" use="required"/>
</xsd:complexType>
```

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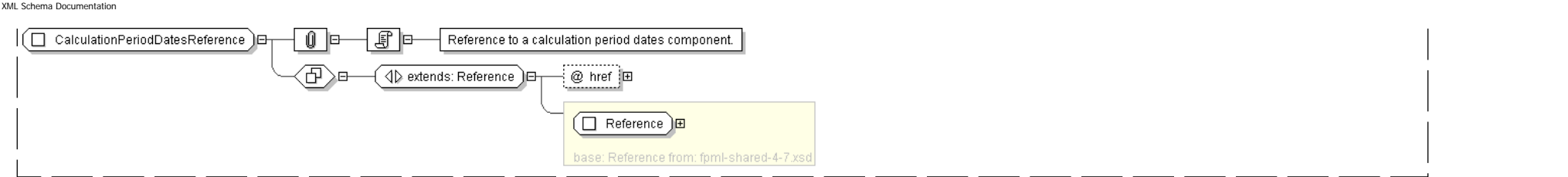
Complex Type: CalculationPeriodDatesReference

Super-types:	<a href="#">Reference</a> < <b>CalculationPeriodDatesReference</b> (by extension)
Sub-types:	None
Name	CalculationPeriodDatesReference
Used by (from the same schema document)	Complex Type <a href="#">DateRelativeToCalculationPeriodDates</a> , Complex Type <a href="#">NotionalStepRule</a> , Complex Type <a href="#">PaymentDates</a> , Complex Type <a href="#">ResetDates</a> , Complex Type <a href="#">StubCalculationPeriodAmount</a>
Abstract	no
Documentation	Reference to a calculation period dates component.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationPeriodDatesReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required"
        reference="CalculationPeriodDates"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: CancelableProvision

Super-types:	None
Sub-types:	None

Name	CancelableProvision
Used by (from the same schema document)	Complex Type <a href="#">Swap</a>
Abstract	no
Documentation	A type defining the right of a party to cancel a swap transaction on the specified exercise dates. The provision is for 'walkaway' cancellation (i.e. the fair value of the swap is not paid). A fee payable on exercise can be specified.

XML Instance Representation

```
<...>
<buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
'A reference to the party that buys this instrument, ie. pays for this instrument and
receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
of FRAs this the fixed rate payer.'
```

```
<sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
'A reference to the party that sells ("writes") this instrument, i.e. that grants the
rights defined by this instrument and in return receives a payment for it. See 2000
ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'
```

```
<exercise> ... </exercise> [1]
<exerciseNotice> ExerciseNotice </exerciseNotice> [0..1]
'Definition of the party to whom notice of exercise should be given.'
```

```
<followUpConfirmation> xsd:boolean </followUpConfirmation> [1]
'A flag to indicate whether follow-up confirmation of exercise (written or electronic)
is required following telephonic notice by the buyer to the seller or seller's agent.'
```

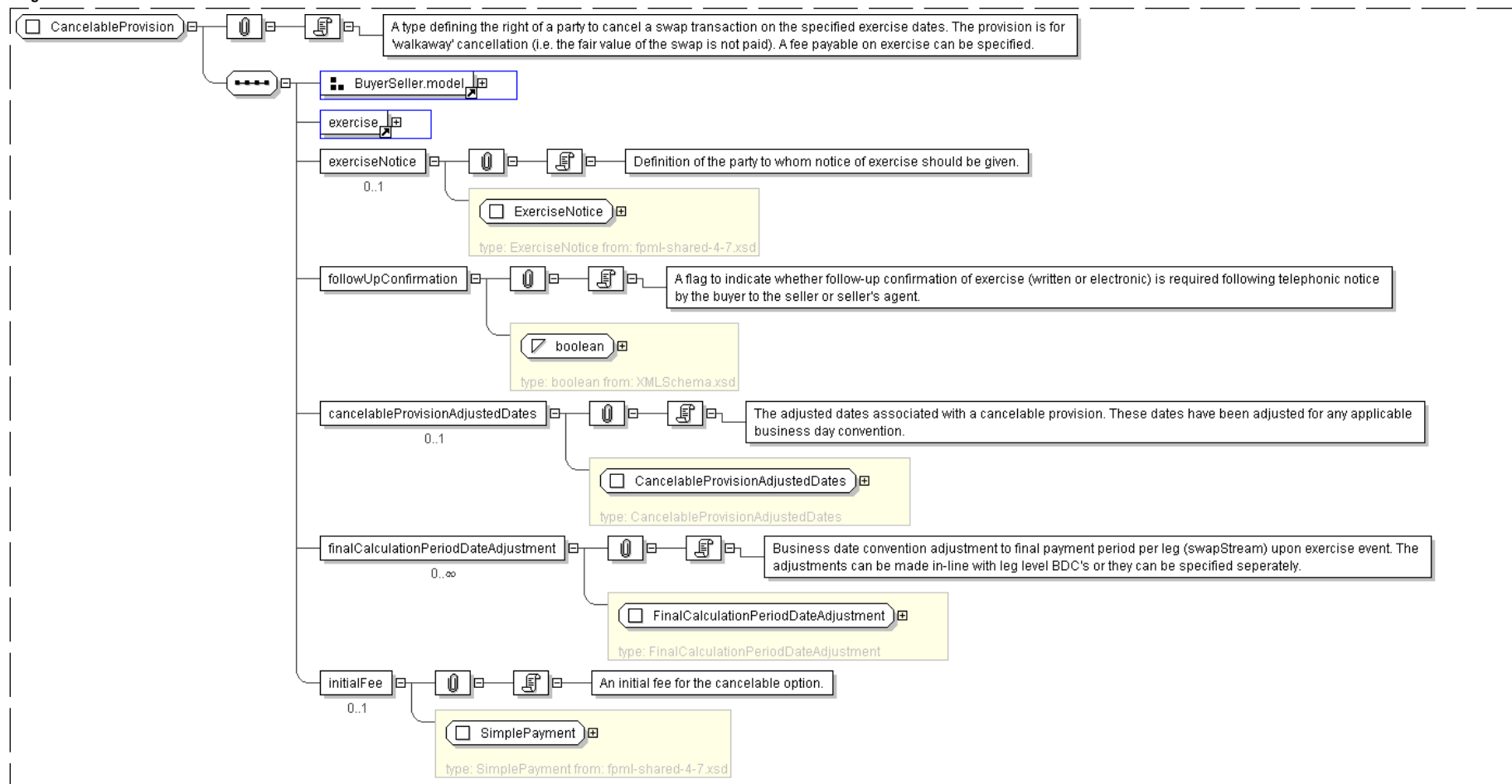
```
<cancelableProvisionAdjustedDates> CancelableProvisionAdjustedDates
</cancelableProvisionAdjustedDates> [0..1]
'The adjusted dates associated with a cancelable provision. These dates have been adjusted
for any applicable business day convention.'
```

```
<finalCalculationPeriodDateAdjustment> FinalCalculationPeriodDateAdjustment
</finalCalculationPeriodDateAdjustment> [0..*]
'Business date convention adjustment to final payment period per leg (swapStream) upon
exercise event. The adjustments can be made in-line with leg level BDC's or they can
be specified seperately.'
```

```
<initialFee> SimplePayment </initialFee> [0..1]
'An initial fee for the cancelable option.'
```

&lt;/...&gt;

## Diagram



## Schema Component Representation

```

<xsd:complexType name="CancelableProvision">
  <xsd:sequence>
    <xsd:group ref="BuyerSeller.model" />
    <xsd:element ref="exercise" />
    <xsd:element name="exerciseNotice" type="ExerciseNotice" minOccurs="0"/>
    <xsd:element name="followUpConfirmation" type="xsd:boolean" />
    <xsd:element name="cancelableProvisionAdjustedDates" type="CancelableProvisionAdjustedDates"
      minOccurs="0"/>
    <xsd:element name="finalCalculationPeriodDateAdjustment"
      type="FinalCalculationPeriodDateAdjustment" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="initialFee" type="SimplePayment" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

```

[top](#)Complex Type: **CancelableProvisionAdjustedDates**

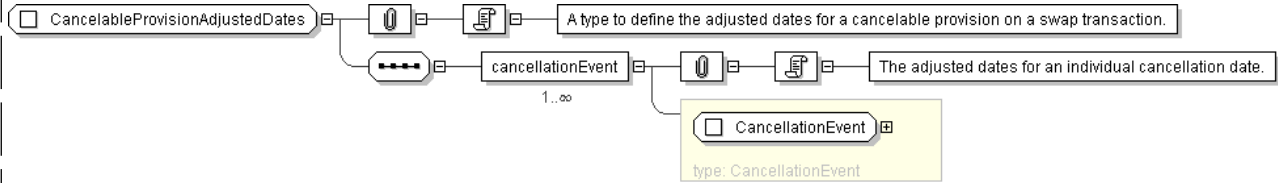
Super-types: None

Sub-types:	None
Name	CancelableProvisionAdjustedDates
Used by (from the same schema document)	Complex Type <a href="#">CancelableProvision</a>
Abstract	no
Documentation	A type to define the adjusted dates for a cancelable provision on a swap transaction.

XML Instance Representation

```
<...>
  <CancellationEvent> CancellationEvent </CancellationEvent> [1..*]
  'The adjusted dates for an individual cancellation date.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CancelableProvisionAdjustedDates">
  <xsd:sequence>
    <xsd:element name="CancellationEvent" type="CancellationEvent" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CancellationEvent**

Super-types:	None
Sub-types:	None
Name	CancellationEvent
Used by (from the same schema document)	Complex Type <a href="#">CancelableProvisionAdjustedDates</a>
Abstract	no
Documentation	The adjusted dates for a specific cancellation date, including the adjusted exercise date and adjusted termination date.

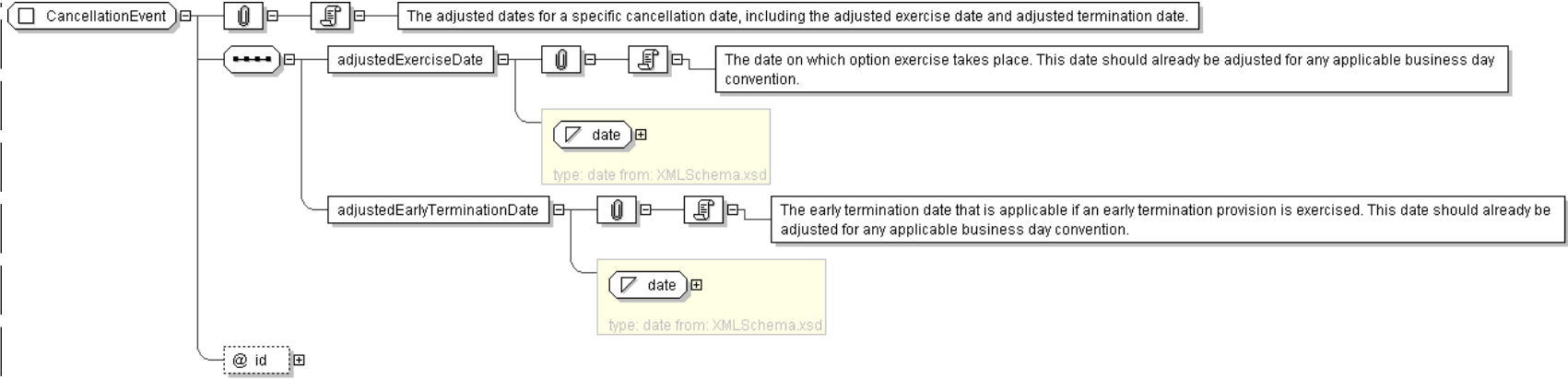
XML Instance Representation

```
<...
  id="xsd:ID [0..1]">
    <adjustedExerciseDate> xsd:date </adjustedExerciseDate> [1]
    'The date on which option exercise takes place. This date should already be adjusted for
    any applicable business day convention.'

    <adjustedEarlyTerminationDate> xsd:date </adjustedEarlyTerminationDate> [1]
    'The early termination date that is applicable if an early termination provision is
    exercised. This date should already be adjusted for any applicable business day convention.'
  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="CancellationEvent">
  <xsd:sequence>
    <xsd:element name="adjustedExerciseDate" type="xsd:date"/>
    <xsd:element name="adjustedEarlyTerminationDate" type="xsd:date"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

[top](#)

Complex Type: CapFloor

Super-types:	<a href="#">Product</a> < <b>CapFloor</b> (by extension)
Sub-types:	None
Name	CapFloor
Used by (from the same schema document)	Element <a href="#">capFloor</a>
Abstract	no
Documentation	A type defining an interest rate cap, floor, or cap/floor strategy (e.g. collar) product.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

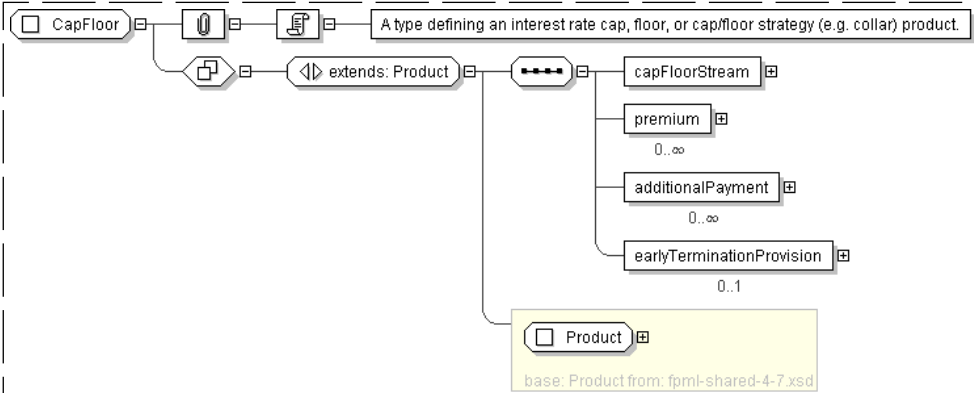
  <capFloorStream> InterestRateStream </capFloorStream> [1]
  <premium> Payment </premium> [0..*]
  'The option premium amount payable by buyer to seller on the specified payment date.'

  <additionalPayment> Payment </additionalPayment> [0..*]
  'Additional payments between the principal parties.'

  <earlyTerminationProvision> EarlyTerminationProvision </earlyTerminationProvision> [0..1]
  'Parameters specifying provisions relating to the optional and mandatory early termination of
  a CapFloor transaction.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CapFloor">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:element name="capFloorStream" type="InterestRateStream"/>
        <xsd:element name="premium" type="Payment" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="additionalPayment" type="Payment" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="earlyTerminationProvision" type="EarlyTerminationProvision" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **CashPriceMethod**

Super-types:	None
Sub-types:	None
Name	CashPriceMethod
Used by (from the same schema document)	Complex Type <a href="#">CashSettlement</a> , Complex Type <a href="#">CashSettlement</a>
Abstract	no
Documentation	A type defining the parameters necessary for each of the ISDA cash price methods for cash settlement.

XML Instance Representation

```
<...>
<cashSettlementReferenceBanks> CashSettlementReferenceBanks </
cashSettlementReferenceBanks> [0..1]

'A container for a set of reference institutions. These reference institutions may be
called upon to provide rate quotations as part of the method to determine the applicable
cash settlement amount. If institutions are not specified, it is assumed that
reference institutions will be agreed between the parties on the exercise date, or in the
case of swap transaction to which mandatory early termination is applicable, the
cash settlement valuation date.'
```

```
<cashSettlementCurrency> Currency </cashSettlementCurrency> [1]

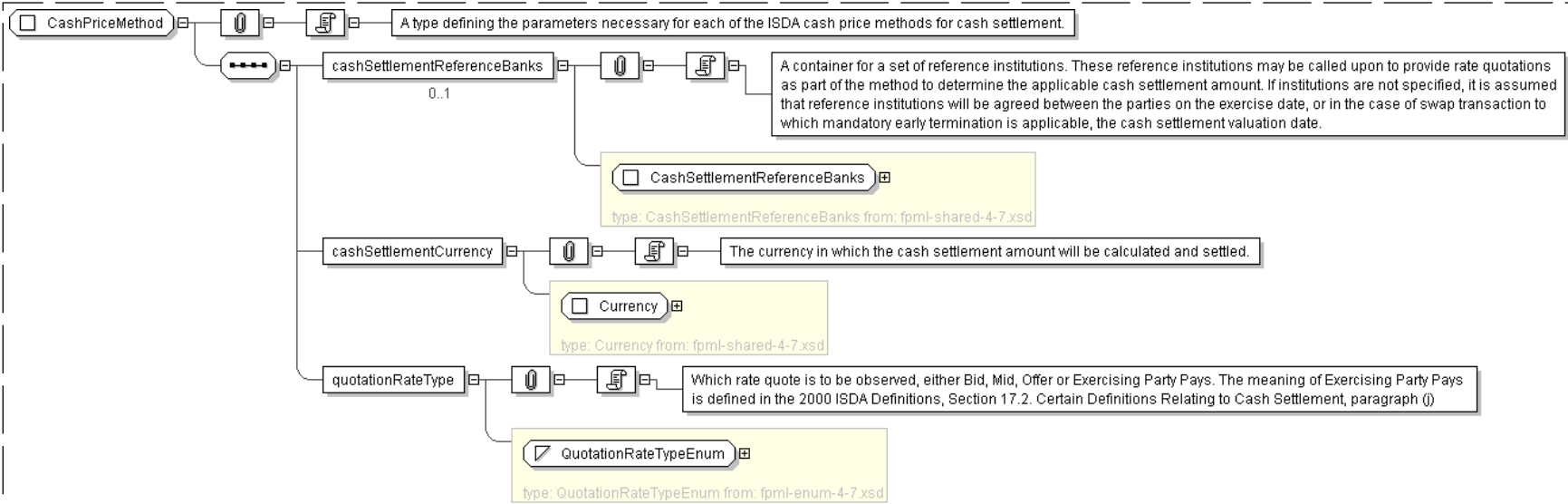
'The currency in which the cash settlement amount will be calculated and settled.'
```

```
<quotationRateType> QuotationRateTypeEnum </quotationRateType> [1]

'Which rate quote is to be observed, either Bid, Mid, Offer or Exercising Party Pays.
The meaning of Exercising Party Pays is defined in the 2000 ISDA Definitions, Section
17.2. Certain Definitions Relating to Cash Settlement, paragraph (j)'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CashPriceMethod">
  <xsd:sequence>
    <xsd:element name="cashSettlementReferenceBanks" type="CashSettlementReferenceBanks"
      minOccurs="0"/>
    <xsd:element name="cashSettlementCurrency" type="Currency"/>
    <xsd:element name="quotationRateType" type="QuotationRateTypeEnum"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: CashSettlement

Super-types:	None
Sub-types:	None

Name	CashSettlement
Used by (from the same schema document)	Complex Type <a href="#">MandatoryEarlyTermination</a> , Complex Type <a href="#">OptionalEarlyTermination</a> , Complex Type <a href="#">Swaption</a>
Abstract	no
Documentation	A type to define the cash settlement terms for a product where cash settlement is applicable.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <cashSettlementValuationTime> BusinessCenterTime </cashSettlementValuationTime> [0..1]
  'The time of the cash settlement valuation date when the cash settlement amount will
  be determined according to the cash settlement method if the parties have not otherwise
  been able to agree the cash settlement amount.'
  <cashSettlementValuationDate> RelativeDateOffset </cashSettlementValuationDate> [0..1]
  'The date on which the cash settlement amount will be determined according to the
  cash settlement method if the parties have not otherwise been able to agree the cash
  settlement amount.'
  <cashSettlementPaymentDate> CashSettlementPaymentDate </cashSettlementPaymentDate> [0..1]
```

'The date on which the cash settlement amount will be paid, subject to adjustment in accordance with any applicable business day convention. This component would not be present for a mandatory early termination provision where the cash settlement payment date is the mandatory early termination date.'

Start **Choice** [0..1]

<cashPriceMethod> **CashPriceMethod** </cashPriceMethod> [1]

'An ISDA defined cash settlement method used for the determination of the applicable cash settlement amount. The method is defined in the 2000 ISDA Definitions, Section 17.3. Cash Settlement Methods, paragraph (a).'

<cashPriceAlternateMethod> **CashPriceMethod** </cashPriceAlternateMethod> [1]

'An ISDA defined cash settlement method used for the determination of the applicable cash settlement amount. The method is defined in the 2000 ISDA Definitions, Section 17.3. Cash Settlement Methods, paragraph (b).'

<parYieldCurveAdjustedMethod> **YieldCurveMethod** </parYieldCurveAdjustedMethod> [1]

'An ISDA defined cash settlement method used for the determination of the applicable cash settlement amount. The method is defined in the 2000 ISDA Definitions, Section 17.3. Cash Settlement Methods, paragraph (c).'

<zeroCouponYieldAdjustedMethod> **YieldCurveMethod** </zeroCouponYieldAdjustedMethod> [1]

'An ISDA defined cash settlement method used for the determination of the applicable cash settlement amount. The method is defined in the 2000 ISDA Definitions, Section 17.3. Cash Settlement Methods, paragraph (d).'

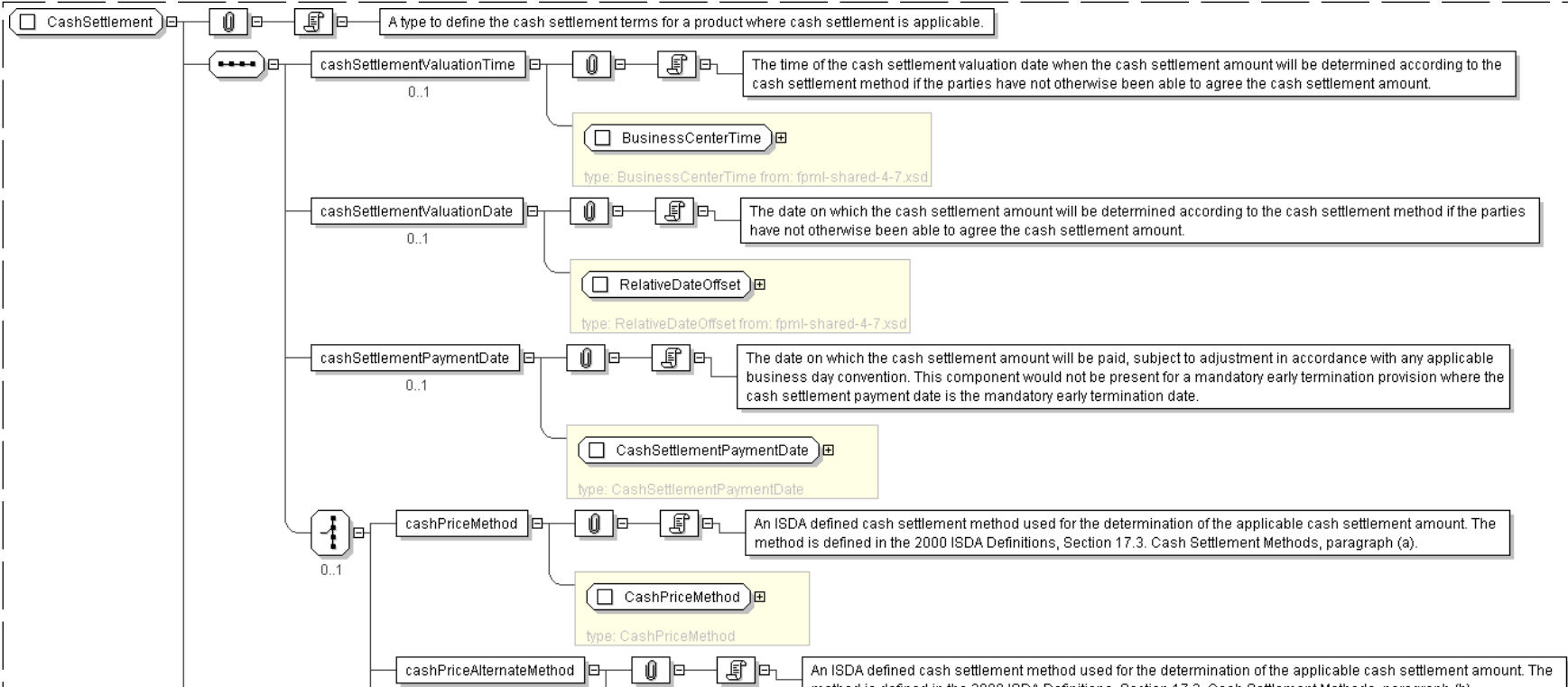
<parYieldCurveUnadjustedMethod> **YieldCurveMethod** </parYieldCurveUnadjustedMethod> [1]

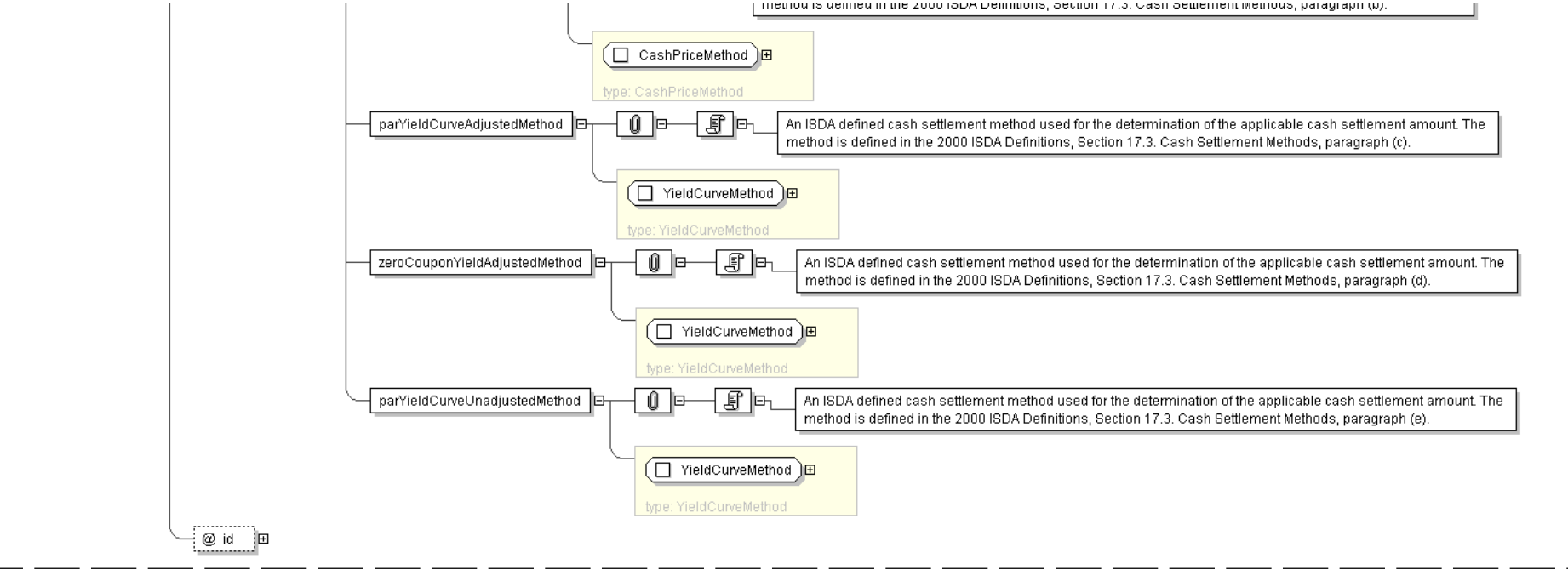
'An ISDA defined cash settlement method used for the determination of the applicable cash settlement amount. The method is defined in the 2000 ISDA Definitions, Section 17.3. Cash Settlement Methods, paragraph (e).'

End **Choice**

</...>

## Diagram





Schema Component Representation

```
<xsd:complexType name="CashSettlement">
  <xsd:sequence>
    <xsd:element name="cashSettlementValuationTime" type="BusinessCenterTime" minOccurs="0"/>
    <xsd:element name="cashSettlementValuationDate" type="RelativeDateOffset" minOccurs="0"/>
    <xsd:element name="cashSettlementPaymentDate" type="CashSettlementPaymentDate" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="cashPriceMethod" type="CashPriceMethod" />
      <xsd:element name="cashPriceAlternateMethod" type="CashPriceMethod" />
      <xsd:element name="parYieldCurveAdjustedMethod" type="YieldCurveMethod" />
      <xsd:element name="zeroCouponYieldAdjustedMethod" type="YieldCurveMethod" />
      <xsd:element name="parYieldCurveUnadjustedMethod" type="YieldCurveMethod" />
    </xsd:choice>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

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Complex Type: CashSettlementPaymentDate

Super-types:	None
Sub-types:	None
Name	CashSettlementPaymentDate
Used by (from the same schema document)	Complex Type <a href="#">CashSettlement</a>
Abstract	no
Documentation	A type defining the cash settlement payment date(s) as either a set of explicit dates, together with applicable adjustments, or as a date relative to some other (anchor) date, or as any date in a range of contiguous business days.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  Start Choice [1]
    <adjustableDates> AdjustableDates </adjustableDates> [1]
  ...
</...>
```

'A series of dates that shall be subject to adjustment if they would otherwise fall on a day that is not a business day in the specified business centers, together with the convention for adjusting the date.'

<relativeDate> RelativeDateOffset </relativeDate> [1]

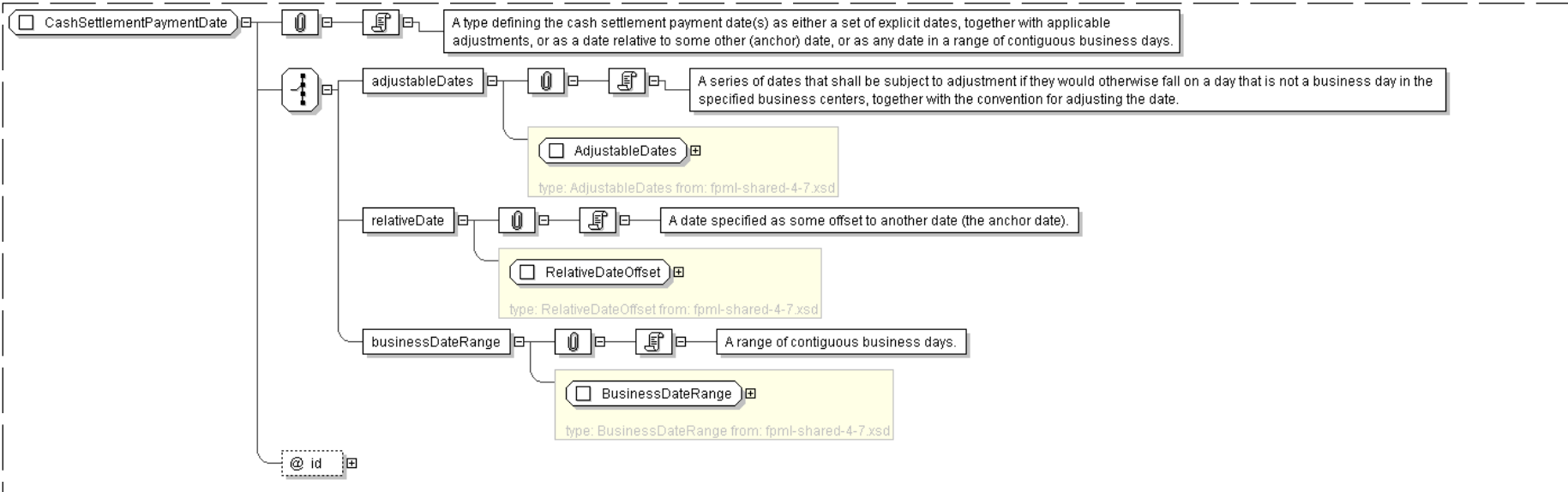
'A date specified as some offset to another date (the anchor date).'

<businessDateRange> BusinessDateRange </businessDateRange> [1]

'A range of contiguous business days.'

End Choice  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CashSettlementPaymentDate">
  <xsd:choice>
    <xsd:element name="adjustableDates" type=" AdjustableDates " />
    <xsd:element name="relativeDate" type=" RelativeDateOffset " />
    <xsd:element name="businessDateRange" type=" BusinessDateRange " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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Complex Type: **Cashflows**

Super-types:	None
Sub-types:	None
Name	Cashflows
Used by (from the same schema document)	Complex Type: <a href="#">InterestRateStream</a>
Abstract	no
Documentation	A type defining the cashflow representation of a swap trade.

XML Instance Representation

```
<...>
  <cashflowsMatchParameters> xsd:boolean </cashflowsMatchParameters> [1]
```

'A true/false flag to indicate whether the cashflows match the parametric definition of the stream, i.e. whether the cashflows could be regenerated from the parameters without loss of information.'

<principalExchange> [PrincipalExchange](#) </principalExchange> [0..\*]

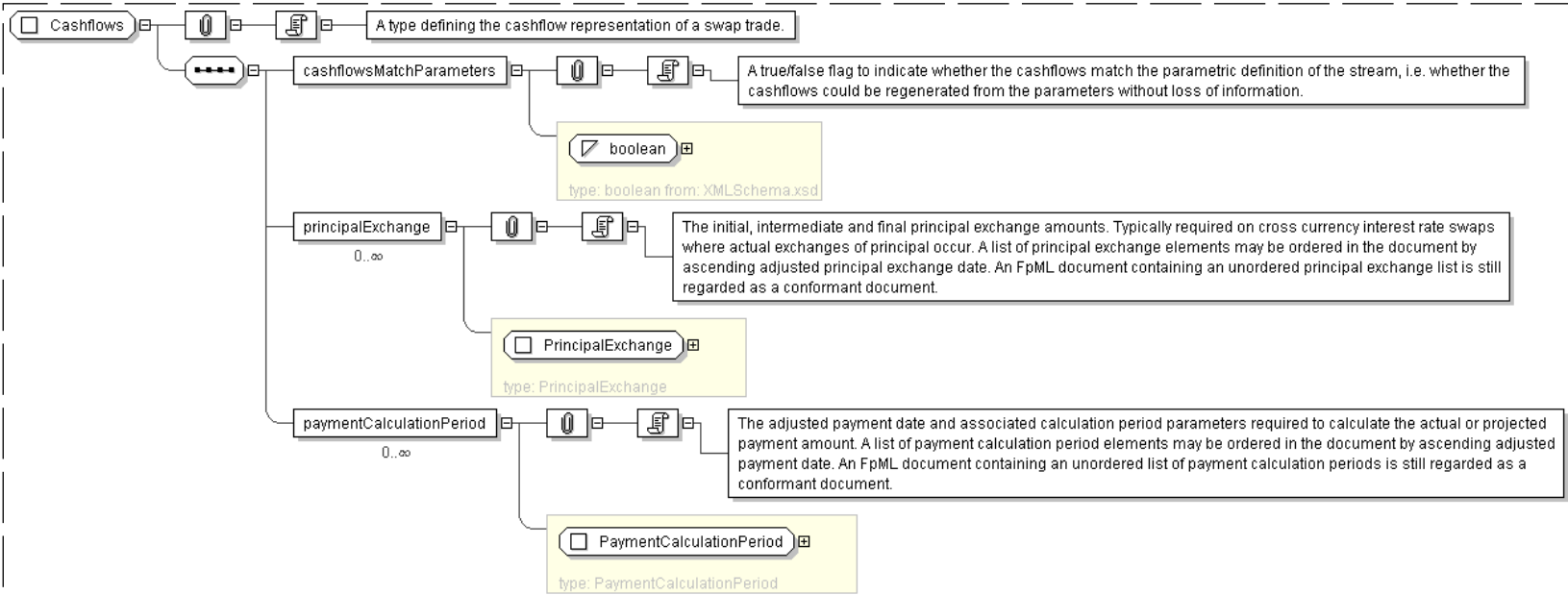
'The initial, intermediate and final principal exchange amounts. Typically required on cross currency interest rate swaps where actual exchanges of principal occur. A list of principal exchange elements may be ordered in the document by ascending adjusted principal exchange date. An FpML document containing an unordered principal exchange list is still regarded as a conformant document.'

<paymentCalculationPeriod> [PaymentCalculationPeriod](#) </paymentCalculationPeriod> [0..\*]

'The adjusted payment date and associated calculation period parameters required to calculate the actual or projected payment amount. A list of payment calculation period elements may be ordered in the document by ascending adjusted payment date. An FpML document containing an unordered list of payment calculation periods is still regarded as a conformant document.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Cashflows">
  <xsd:sequence>
    <xsd:element name="cashflowsMatchParameters" type="xsd:boolean" />
    <xsd:element name="principalExchange" type="PrincipalExchange"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="paymentCalculationPeriod" type="PaymentCalculationPeriod"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **DateRelativeToCalculationPeriodDates**

Super-types:	None
Sub-types:	None

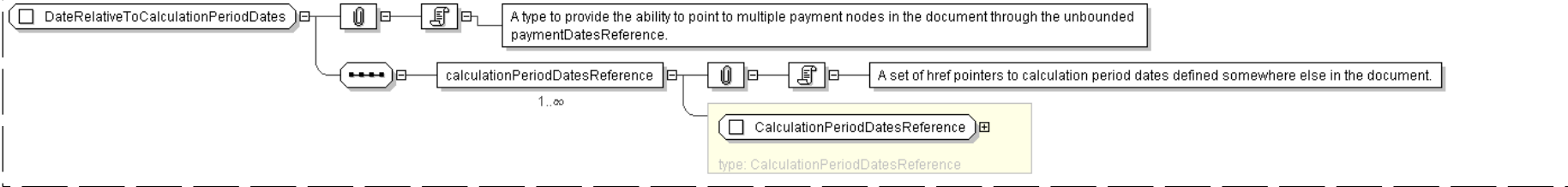
Name	DateRelativeToCalculationPeriodDates
Used by (from the same schema document)	Complex Type <a href="#">FxFixingDate</a>
Abstract	no
Documentation	A type to provide the ability to point to multiple payment nodes in the document through the unbounded paymentDatesReference.

XML Instance Representation

```
<...>
  <calculationPeriodDatesReference> CalculationPeriodDatesReference
</calculationPeriodDatesReference> [1..*]

'A set of href pointers to calculation period dates defined somewhere else in the document.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DateRelativeToCalculationPeriodDates">
  <xsd:sequence>
    <xsd:element name="calculationPeriodDatesReference" type="CalculationPeriodDatesReference"
      maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **DateRelativeToPaymentDates**

Super-types:	None
Sub-types:	None

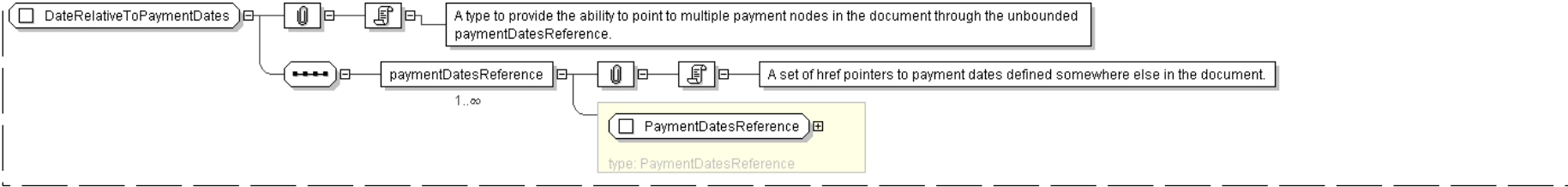
Name	DateRelativeToPaymentDates
Used by (from the same schema document)	Complex Type <a href="#">FxFixingDate</a>
Abstract	no
Documentation	A type to provide the ability to point to multiple payment nodes in the document through the unbounded paymentDatesReference.

XML Instance Representation

```
<...>
  <paymentDatesReference> PaymentDatesReference </paymentDatesReference> [1..*]

'A set of href pointers to payment dates defined somewhere else in the document.'
```

Diagram





Complex Type: Discounting

Super-types:	None
Sub-types:	None
Name	Discounting
Used by (from the same schema document)	Complex Type <a href="#">Calculation</a>
Abstract	no
Documentation	A type defining discounting information. The 2000 ISDA definitions, section 8.4. discounting (related to the calculation of a discounted fixed amount or floating amount) apply. This type must only be included if discounting applies.

XML Instance Representation

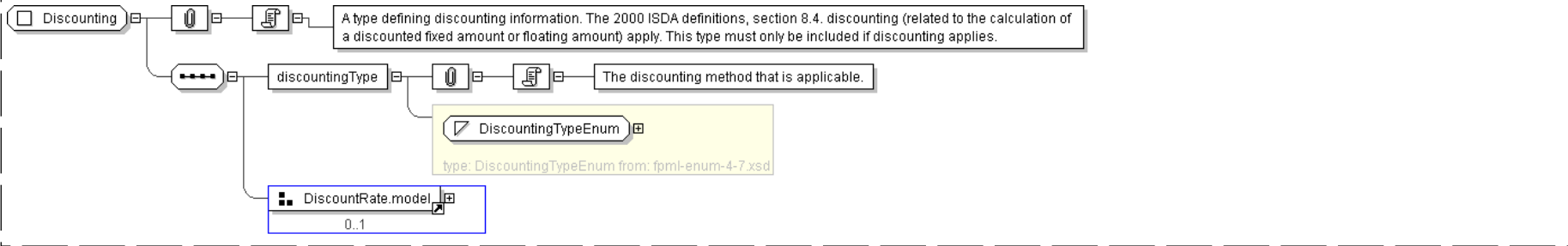
<...>  
 <discountingType> [DiscountingTypeEnum](#) </discountingType> [1]  
 'The discounting method that is applicable.'

Start Group: [DiscountRate.model](#) [0..1]  
 <discountRate> [xsd:decimal](#) </discountRate> [1]  
 'A discount rate, expressed as a decimal, to be used in the calculation of a discounted amount. A discount amount of 5% would be represented as 0.05.'

<discountRateDayCountFraction> [DayCountFraction](#) </discountRateDayCountFraction> [0..1]  
 'A discount day count fraction to be used in the calculation of a discounted amount.'

End Group: [DiscountRate.model](#)  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Discounting">  
  <xsd:sequence>  
    <xsd:element name="discountingType" type="DiscountingTypeEnum"/>  
    <xsd:group ref="DiscountRate.model" minOccurs="0"/>  
  </xsd:sequence>  
</xsd:complexType>
```

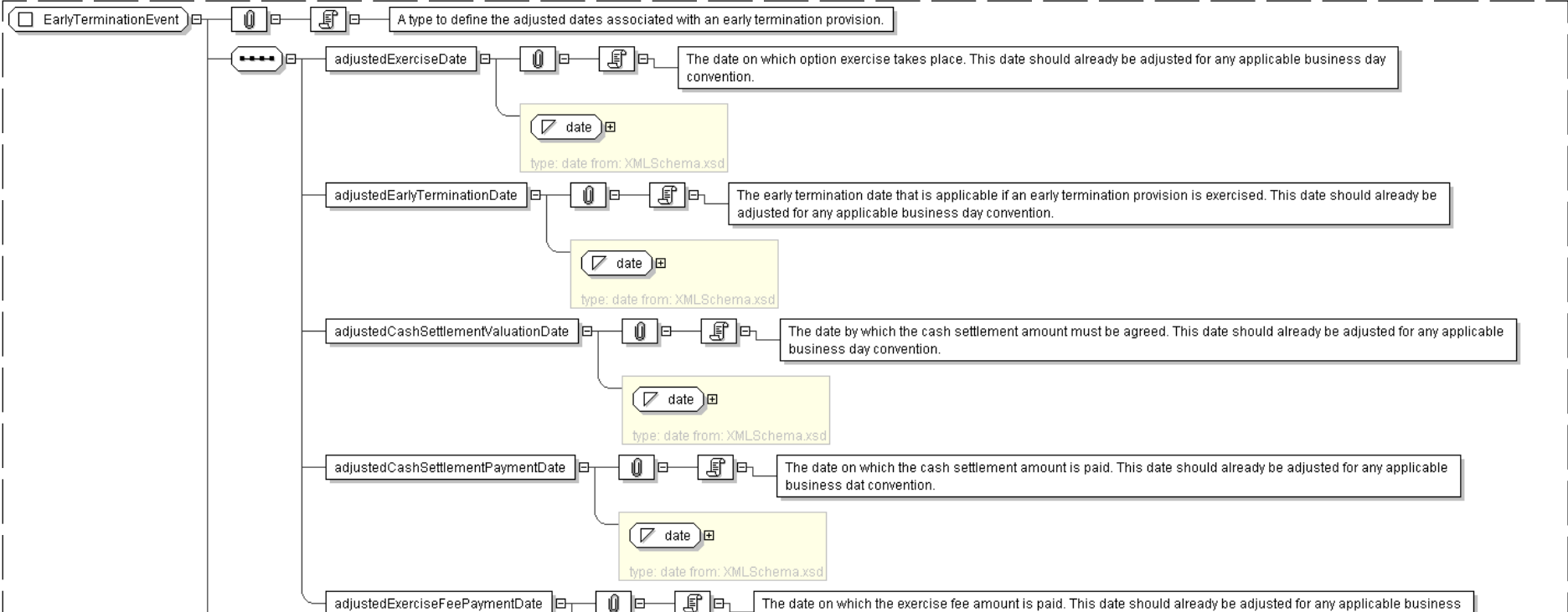
Complex Type: EarlyTerminationEvent

Super-types:	None
Sub-types:	None
Name	EarlyTerminationEvent
Used by (from the same schema document)	Complex Type <a href="#">OptionalEarlyTerminationAdjustedDates</a>
Abstract	no
Documentation	A type to define the adjusted dates associated with an early termination provision.

XML Instance Representation

```
<...  
  id="xsd:ID [0..1]">  
    <adjustedExerciseDate> xsd:date </adjustedExerciseDate> [1]  
    'The date on which option exercise takes place. This date should already be adjusted for  
    any applicable business day convention.'  
  
    <adjustedEarlyTerminationDate> xsd:date </adjustedEarlyTerminationDate> [1]  
    'The early termination date that is applicable if an early termination provision is  
    exercised. This date should already be adjusted for any applicable business day convention.'  
  
    <adjustedCashSettlementValuationDate> xsd:date </adjustedCashSettlementValuationDate> [1]  
    'The date by which the cash settlement amount must be agreed. This date should already  
    be adjusted for any applicable business day convention.'  
  
    <adjustedCashSettlementPaymentDate> xsd:date </adjustedCashSettlementPaymentDate> [1]  
    'The date on which the cash settlement amount is paid. This date should already be adjusted  
    for any applicable business dat convention.'  
  
    <adjustedExerciseFeePaymentDate> xsd:date </adjustedExerciseFeePaymentDate> [0..1]  
    'The date on which the exercise fee amount is paid. This date should already be adjusted  
    for any applicable business day convention.'  
  
  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="EarlyTerminationEvent">
  <xsd:sequence>
    <xsd:element name="adjustedExerciseDate" type="xsd:date" />
    <xsd:element name="adjustedEarlyTerminationDate" type="xsd:date" />
    <xsd:element name="adjustedCashSettlementValuationDate" type="xsd:date" />
    <xsd:element name="adjustedCashSettlementPaymentDate" type="xsd:date" />
    <xsd:element name="adjustedExerciseFeePaymentDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **EarlyTerminationProvision**

Super-types:	None
Sub-types:	None
Name	EarlyTerminationProvision
Used by (from the same schema document)	Complex Type <a href="#">CapFloor</a> , Complex Type <a href="#">Swap</a>
Abstract	no
Documentation	A type defining an early termination provision for a swap. This early termination is at fair value, i.e. on termination the fair value of the product must be settled between the parties.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
Start Choice [1]
Start Choice [1]
  <mandatoryEarlyTermination> MandatoryEarlyTermination </mandatoryEarlyTermination> [1]
  'A mandatory early termination provision to terminate the swap at fair value.'

  <mandatoryEarlyTerminationDateTenor> Period </mandatoryEarlyTerminationDateTenor> [1]
  'Period after trade date of the mandatory early termination date.'

  <mandatoryEarlyTermination> MandatoryEarlyTermination </mandatoryEarlyTermination> [0..1]
  'A mandatory early termination provision to terminate the swap at fair value.'

End Choice
Start Group: OptionalEarlyTermination.model [0..1]
Start Choice [1]
  <optionalEarlyTermination> OptionalEarlyTermination </optionalEarlyTermination> [1]
  'An option for either or both parties to terminate the swap at fair value.'

  <optionalEarlyTerminationParameters> ExercisePeriod </optionalEarlyTerminationParameters> [1]
  'Definition of the first early termination date and the frequency of the termination
  dates subsequent to that. American exercise is defined by having a frequency of one day.'

  <optionalEarlyTermination> OptionalEarlyTermination </optionalEarlyTermination> [0..1]
  'An option for either or both parties to terminate the swap at fair value.'

End Choice
End Group: OptionalEarlyTermination.model
Start Choice [1]
```

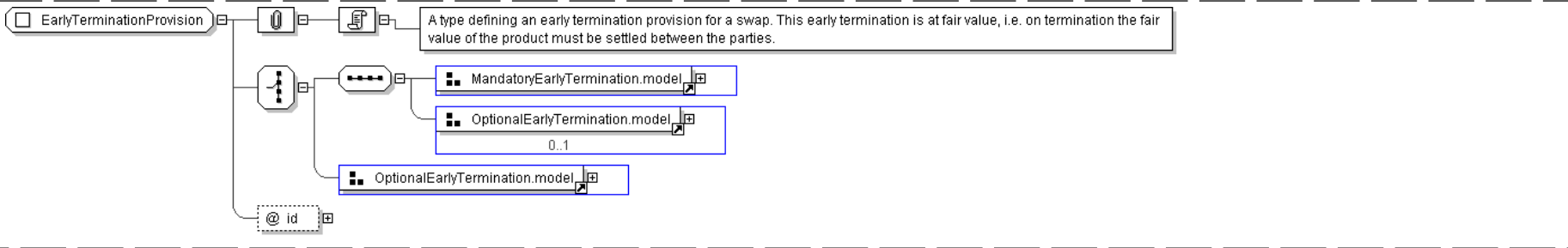
```
<optionalEarlyTermination> OptionalEarlyTermination </optionalEarlyTermination> [1]
'An option for either or both parties to terminate the swap at fair value.'
```

```
<optionalEarlyTerminationParameters> ExercisePeriod </optionalEarlyTerminationParameters> [1]
'Definition of the first early termination date and the frequency of the termination
dates subsequent to that. American exercise is defined by having a frequency of one day.'
```

```
<optionalEarlyTermination> OptionalEarlyTermination </optionalEarlyTermination> [0..1]
'An option for either or both parties to terminate the swap at fair value.'
```

```
End Choice
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EarlyTerminationProvision">
  <xsd:choice>
    <xsd:sequence>
      <xsd:group ref=" MandatoryEarlyTermination.model " />
      <xsd:group ref=" OptionalEarlyTermination.model " minOccurs="0"/>
    </xsd:sequence>
    <xsd:group ref=" OptionalEarlyTermination.model " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **ExerciseEvent**

Super-types:	None
Sub-types:	None
Name	ExerciseEvent
Used by (from the same schema document)	Complex Type <a href="#">SwaptionAdjustedDates</a>
Abstract	no
Documentation	A type defining the adjusted dates associated with a particular exercise event.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <adjustedExerciseDate> xsd:date </adjustedExerciseDate> [1]
  'The date on which option exercise takes place. This date should already be adjusted for
  any applicable business day convention.'
```

```
  <adjustedRelevantSwapEffectiveDate> xsd:date </adjustedRelevantSwapEffectiveDate> [1]
  'The effective date of the underlying swap associated with a given exercise date. This
  date should already be adjusted for any applicable business day convention.'
```

```
  <adjustedCashSettlementValuationDate> xsd:date </adjustedCashSettlementValuationDate> [0..1]
```

'The date by which the cash settlement amount must be agreed. This date should already be adjusted for any applicable business day convention.'

```
<adjustedCashSettlementPaymentDate> xsd:date </adjustedCashSettlementPaymentDate> [0..1]
```

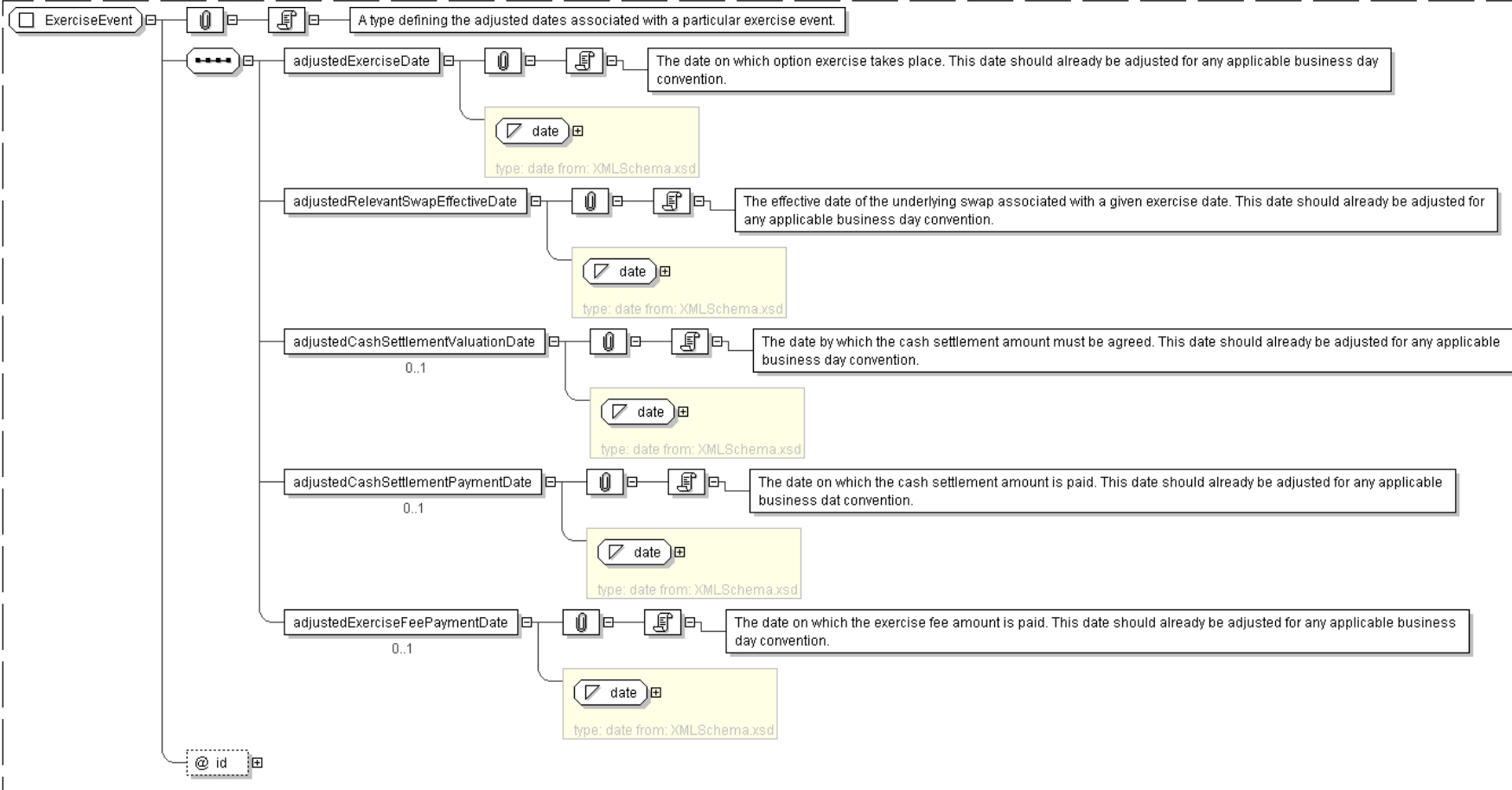
'The date on which the cash settlement amount is paid. This date should already be adjusted for any applicable business day convention.'

```
<adjustedExerciseFeePaymentDate> xsd:date </adjustedExerciseFeePaymentDate> [0..1]
```

'The date on which the exercise fee amount is paid. This date should already be adjusted for any applicable business day convention.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="ExerciseEvent">
  <xsd:sequence>
    <xsd:element name="adjustedExerciseDate" type="xsd:date"/>
    <xsd:element name="adjustedRelevantSwapEffectiveDate" type="xsd:date"/>
    <xsd:element name="adjustedCashSettlementValuationDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedCashSettlementPaymentDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedExerciseFeePaymentDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

Complex Type: **ExercisePeriod**

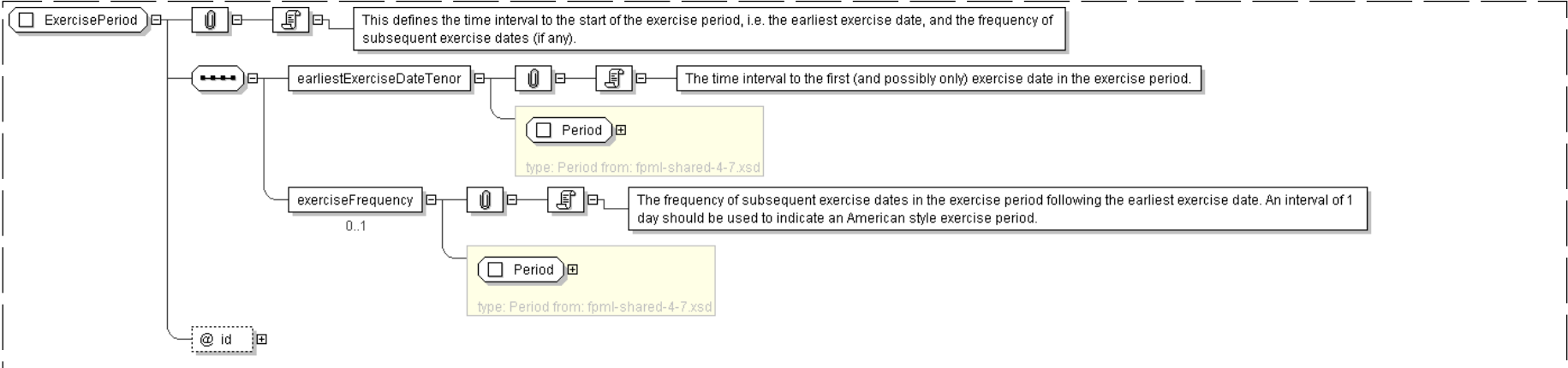
Super-types:	None
Sub-types:	None
Name	ExercisePeriod
Used by (from the same schema document)	Model Group <a href="#">OptionalEarlyTermination.model</a>
Abstract	no
Documentation	This defines the time interval to the start of the exercise period, i.e. the earliest exercise date, and the frequency of subsequent exercise dates (if any).

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <earliestExerciseDateTenor> Period </earliestExerciseDateTenor> [1]
  'The time interval to the first (and possibly only) exercise date in the exercise period.'

  <exerciseFrequency> Period </exerciseFrequency> [0..1]
  'The frequency of subsequent exercise dates in the exercise period following the
  earliest exercise date. An interval of 1 day should be used to indicate an American
  style exercise period.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExercisePeriod">
  <xsd:sequence>
    <xsd:element name="earliestExerciseDateTenor" type=" Period "/>
    <xsd:element name="exerciseFrequency" type=" Period " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

Complex Type: **ExtendibleProvision**

Super-types:	None
Sub-types:	None
Name	ExtendibleProvision

Used by (from the same schema document)	Complex Type <a href="#">Swap</a>
Abstract	no
Documentation	A type defining an option to extend an existing swap transaction on the specified exercise dates for a term ending on the specified new termination date.

XML Instance Representation

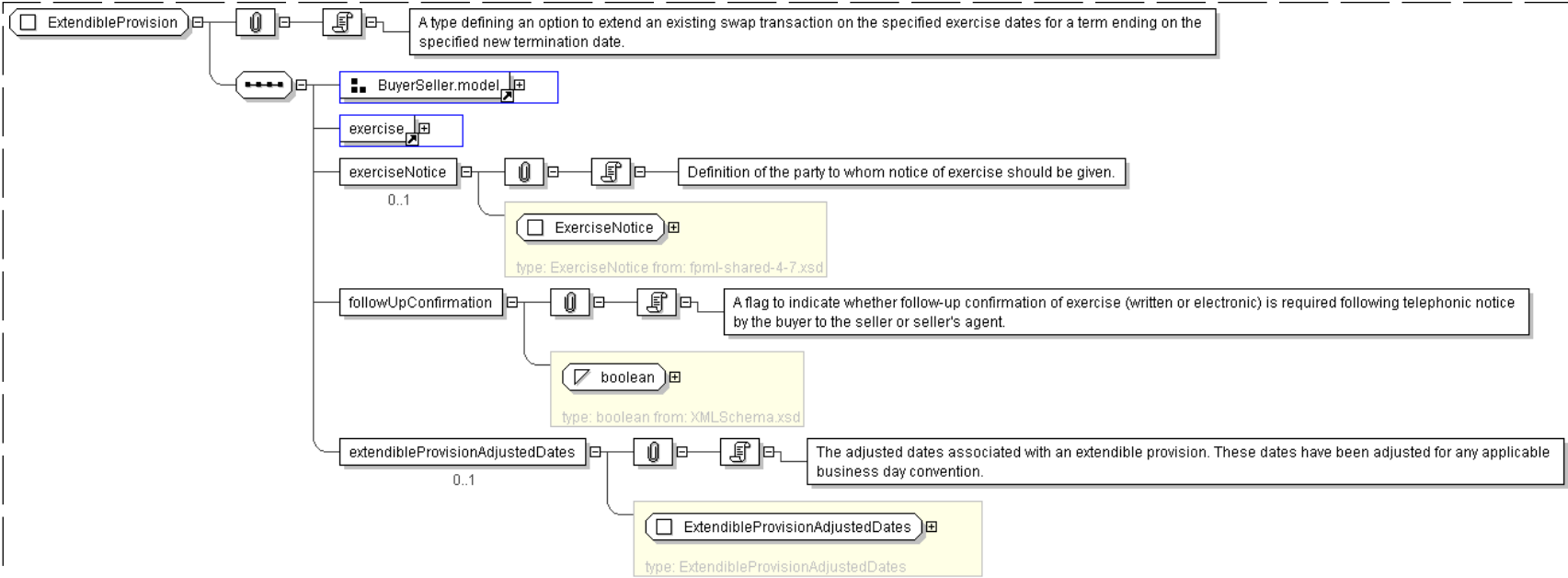
```
<...>
<buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'ExerciseNotice </exerciseNotice> [0..1]
  'Definition of the party to whom notice of exercise should be given.'

<followUpConfirmation> xsd:boolean </followUpConfirmation> [1]
  'A flag to indicate whether follow-up confirmation of exercise (written or electronic)
  is required following telephonic notice by the buyer to the seller or seller\'s agent.'

<extendibleProvisionAdjustedDates> ExtendibleProvisionAdjustedDates
</extendibleProvisionAdjustedDates> [0..1]
  'The adjusted dates associated with an extendible provision. These dates have been adjusted
  for any applicable business day convention.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExtendibleProvision">
  <xsd:sequence>
    <xsd:group ref="BuyerSeller.model" />
    <xsd:element ref="exercise" />
  </xsd:sequence>
</xsd:complexType>
```

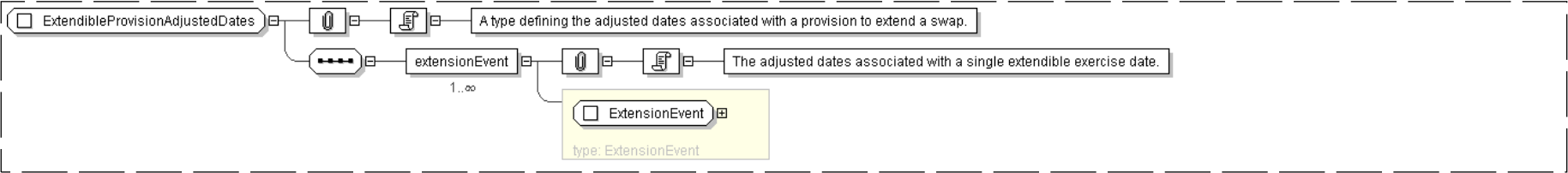
Complex Type: **ExtendibleProvisionAdjustedDates**

Super-types:	None
Sub-types:	None
Name	ExtendibleProvisionAdjustedDates
Used by (from the same schema document)	Complex Type <a href="#">ExtendibleProvision</a>
Abstract	no
Documentation	A type defining the adjusted dates associated with a provision to extend a swap.

XML Instance Representation

```
<...>
  <extensionEvent> ExtensionEvent </extensionEvent> [1..*]
  'The adjusted dates associated with a single extendible exercise date.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExtendibleProvisionAdjustedDates">
  <xsd:sequence>
    <xsd:element name="extensionEvent" type=" ExtensionEvent " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **ExtensionEvent**

Super-types:	None
Sub-types:	None
Name	ExtensionEvent
Used by (from the same schema document)	Complex Type <a href="#">ExtendibleProvisionAdjustedDates</a>
Abstract	no
Documentation	A type to define the adjusted dates associated with an individual extension event.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <adjustedExerciseDate> xsd:date </adjustedExerciseDate> [1]
  'The date on which option exercise takes place. This date should already be adjusted for
  any applicable business day convention.'
```

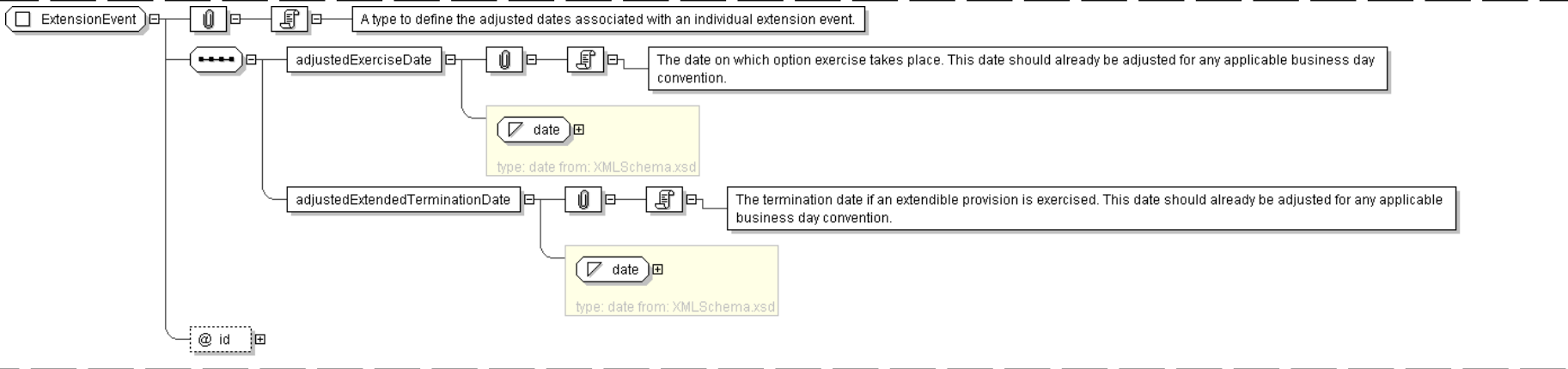


```
<adjustedExtendedTerminationDate> xsd:date </adjustedExtendedTerminationDate> [1]
```

*'The termination date if an extendible provision is exercised. This date should already be adjusted for any applicable business day convention.'*

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExtensionEvent">
  <xsd:sequence>
    <xsd:element name="adjustedExerciseDate" type=" xsd:date "/>
    <xsd:element name="adjustedExtendedTerminationDate" type=" xsd:date "/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

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Complex Type: **FallbackReferencePrice**

Super-types:	None
Sub-types:	None
Name	FallbackReferencePrice
Used by (from the same schema document)	Complex Type <a href="#">PriceSourceDisruption</a>
Abstract	no
Documentation	The method, prioritized by the order it is listed in this element, to get a replacement rate for the disrupted settlement rate option.

XML Instance Representation

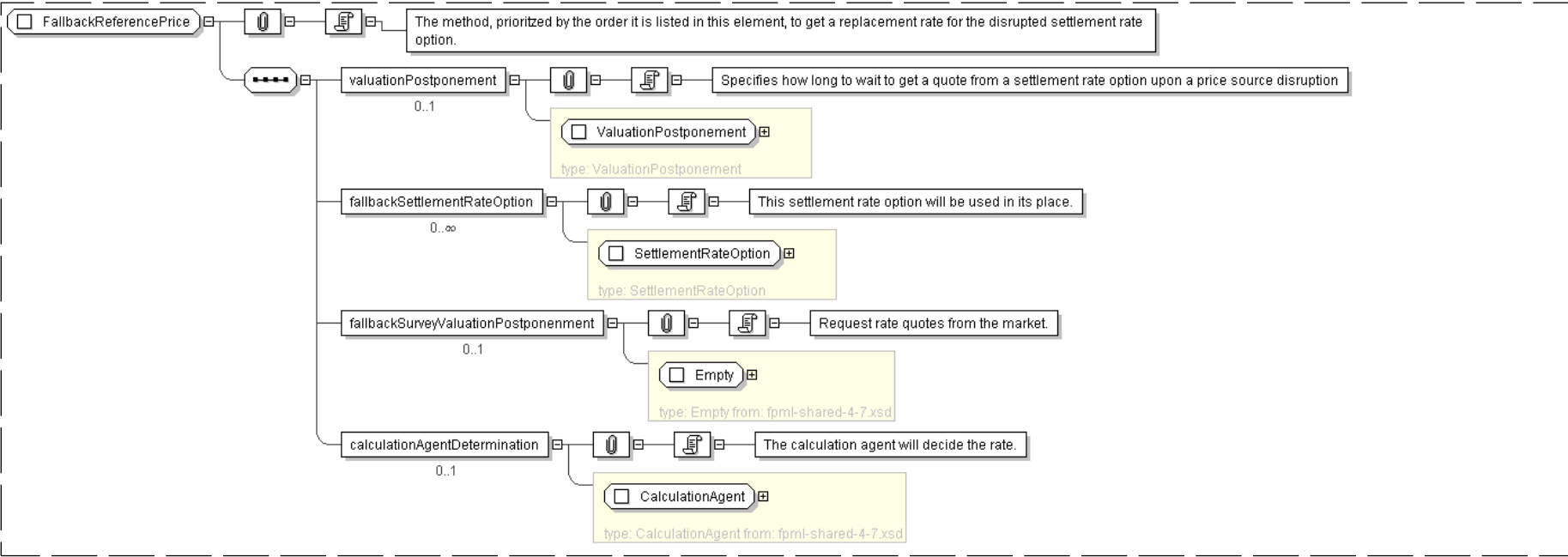
```
<...>
  <valuationPostponement> ValuationPostponement </valuationPostponement> [0..1]
  'Specifies how long to wait to get a quote from a settlement rate option upon a price source disruption'

  <fallbackSettlementRateOption> SettlementRateOption </fallbackSettlementRateOption> [0..*]
  'This settlement rate option will be used in its place.'

  <fallbackSurveyValuationPostponement> Empty </fallbackSurveyValuationPostponement> [0..1]
  'Request rate quotes from the market.'

  <calculationAgentDetermination> CalculationAgent </calculationAgentDetermination> [0..1]
  'The calculation agent will decide the rate.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FallbackReferencePrice">
  <xsd:sequence>
    <xsd:element name="valuationPostponement" type="ValuationPostponement" minOccurs="0"/>
    <xsd:element name="fallbackSettlementRateOption" type="SettlementRateOption"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="fallbackSurveyValuationPostponement" type="Empty" minOccurs="0"/>
    <xsd:element name="calculationAgentDetermination" type="CalculationAgent" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FinalCalculationPeriodDateAdjustment**

Super-types:	None
Sub-types:	None

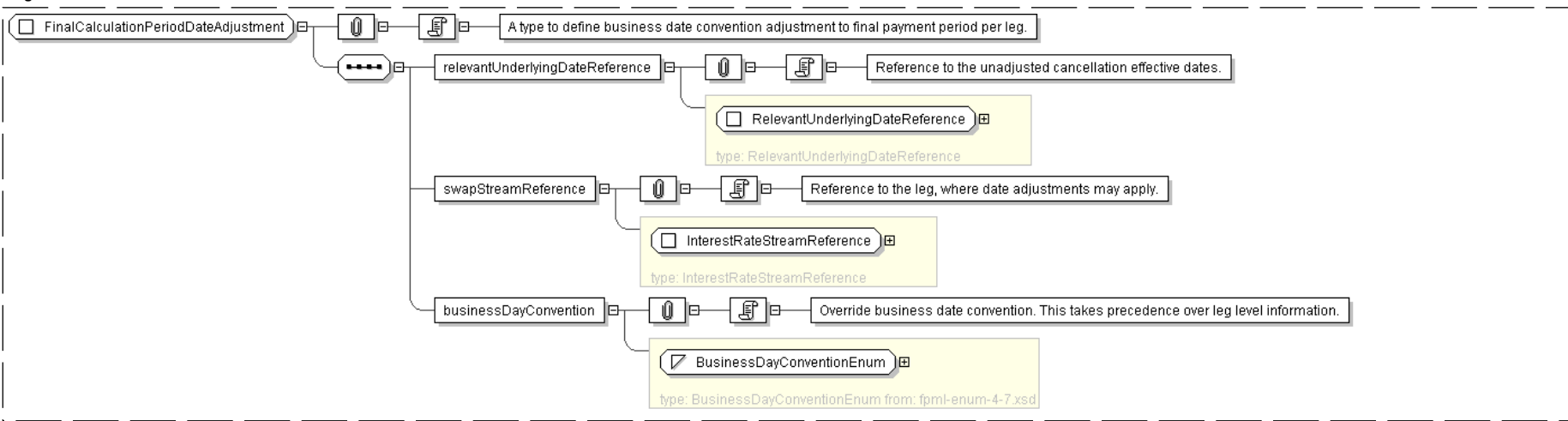
Name	FinalCalculationPeriodDateAdjustment
Used by (from the same schema document)	Complex Type <a href="#">CancelableProvision</a>
Abstract	no
Documentation	A type to define business date convention adjustment to final payment period per leg.

XML Instance Representation

```
<...>
  <relevantUnderlyingDateReference> RelevantUnderlyingDateReference
</relevantUnderlyingDateReference> [1]
  'Reference to the unadjusted cancellation effective dates.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FinalCalculationPeriodDateAdjustment">
  <xsd:sequence>
    <xsd:element name="relevantUnderlyingDateReference" type="RelevantUnderlyingDateReference" />
    <xsd:element name="swapStreamReference" type="InterestRateStreamReference" />
    <xsd:element name="businessDayConvention" type="BusinessDayConventionEnum" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: FloatingRateDefinition

Super-types:	None
Sub-types:	None
Name	FloatingRateDefinition
Used by (from the same schema document)	Complex Type <a href="#">CalculationPeriod</a>
Abstract	no
Documentation	A type defining parameters associated with a floating rate reset. This type forms part of the cashflows representation of a stream.

XML Instance Representation

```
<...>
  <calculatedRate> xsd:decimal </calculatedRate> [0..1]
  'The final calculated rate for a calculation period after any required averaging of rates
  A calculated rate of 5% would be represented as 0.05.'

  <rateObservation> RateObservation </rateObservation> [0..*]
  'The details of a particular rate observation, including the fixing date and observed rate.
  A list of rate observation elements may be ordered in the document by ascending adjusted
  fixing date. An FpML document containing an unordered list of rate observations is
  still regarded as a conformant document.'

  <floatingRateMultiplier> xsd:decimal </floatingRateMultiplier> [0..1]
  'A rate multiplier to apply to the floating rate. The multiplier can be a positive or
  negative decimal. This element should only be included if the multiplier is not equal to
  1 (one).'
```

'The ISDA Spread, if any, which applies for the calculation period. The spread is a per annum rate, expressed as a decimal. For purposes of determining a calculation period amount, if positive the spread will be added to the floating rate and if negative the spread will be subtracted from the floating rate. A positive 10 basis point (0.1%) spread would be represented as 0.001.'

```
<capRate> Strike </capRate> [0..*]
```

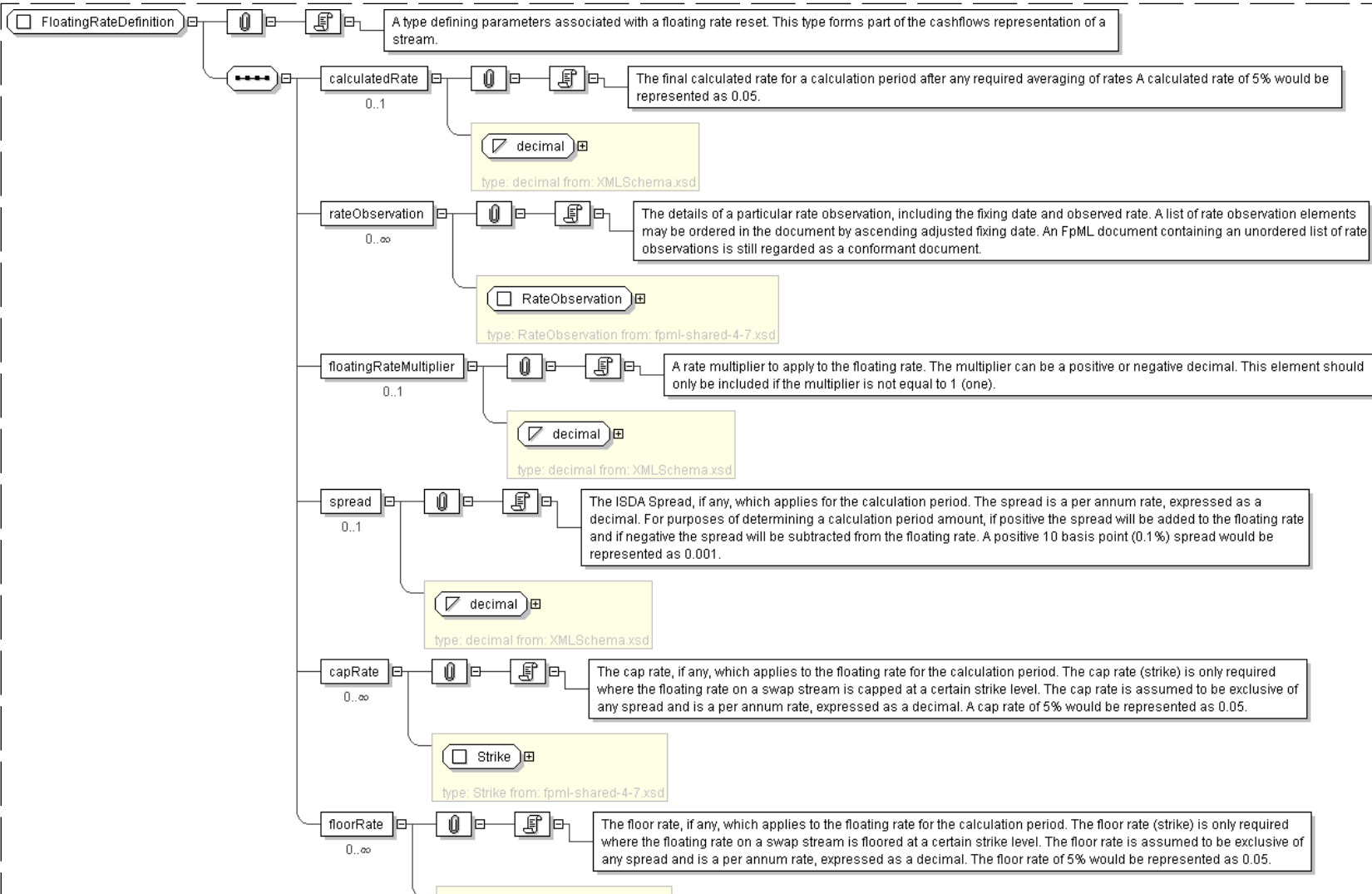
'The cap rate, if any, which applies to the floating rate for the calculation period. The cap rate (strike) is only required where the floating rate on a swap stream is capped at a certain strike level. The cap rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'

```
<floorRate> Strike </floorRate> [0..*]
```

'The floor rate, if any, which applies to the floating rate for the calculation period. The floor rate (strike) is only required where the floating rate on a swap stream is floored at a certain strike level. The floor rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. The floor rate of 5% would be represented as 0.05.'

```
</...>
```

## Diagram





type: Strike from: fpml-shared-4-7.xsd

Schema Component Representation

```
<xsd:complexType name="FloatingRateDefinition">
  <xsd:sequence>
    <xsd:element name="calculatedRate" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="rateObservation" type=" RateObservation "
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="floatingRateMultiplier" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="spread" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="capRate" type=" Strike " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="floorRate" type=" Strike " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Fra**

Super-types:	<a href="#">Product</a> < <b>Fra</b> (by extension)
Sub-types:	None
Name	Fra
Used by (from the same schema document)	Element <a href="#">fra</a>
Abstract	no
Documentation	A type defining a Forward Rate Agreement (FRA) product.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <adjustedEffectiveDate> RequiredIdentifierDate </adjustedEffectiveDate> [1]
  'The start date of the calculation period. This date should already be adjusted for
  any applicable business day convention. This is also the date when the observed rate
  is applied, the reset date.'

  <adjustedTerminationDate> xsd:date </adjustedTerminationDate> [1]
  'The end date of the calculation period. This date should already be adjusted for
  any applicable business day convention.'

  <paymentDate> AdjustableDate </paymentDate> [1]
  'The payment date. This date is subject to adjustment in accordance with any
  applicable business day convention.'

  <fixingDateOffset> RelativeDateOffset </fixingDateOffset> [1]
```

'Specifies the fixing date relative to the reset date in terms of a business days offset and an associated set of financial business centers. Normally these offset calculation rules will be those specified in the ISDA definition for the relevant floating rate index (ISDA \s Floating Rate Option). However, non-standard offset calculation rules may apply for a trade if mutually agreed by the principal parties to the transaction. The href attribute on the dateRelativeTo element should reference the id attribute on the adjustedEffectiveDate element.'

```
<dayCountFraction> DayCountFraction </dayCountFraction> [1]
```

'The day count fraction.'

```
<calculationPeriodNumberOfDays> xsd:positiveInteger </calculationPeriodNumberOfDays> [1]
```

'The number of days from the adjusted effective date to the adjusted termination date calculated in accordance with the applicable day count fraction.'

```
<notional> Money </notional> [1]
```

'The notional amount.'

```
<fixedRate> xsd:decimal </fixedRate> [1]
```

'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate of 5% would be represented as 0.05.'

```
<floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
```

```
<indexTenor> Period </indexTenor> [1..*]
```

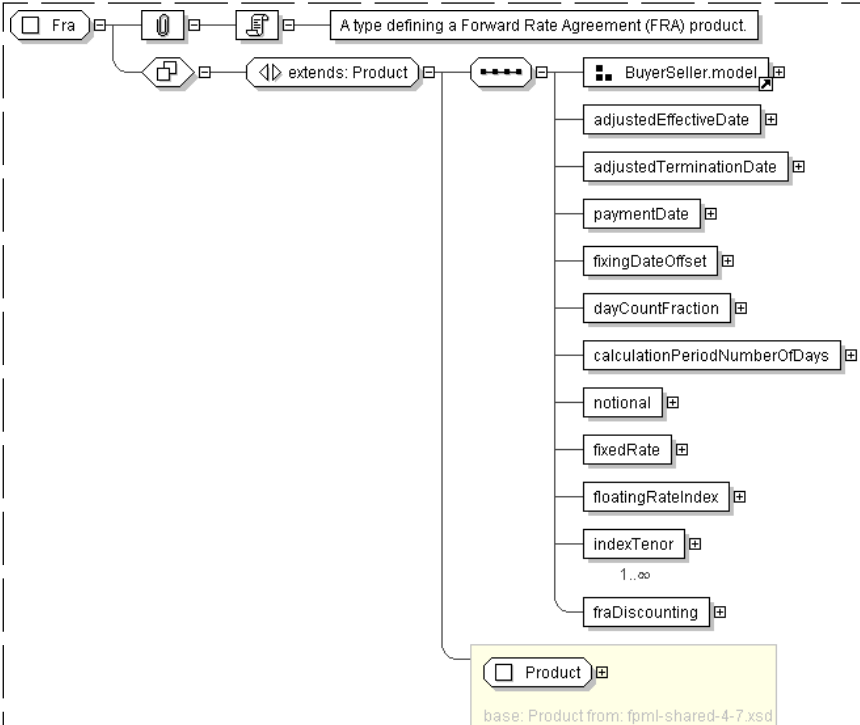
'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

```
<fraDiscounting> FraDiscountingEnum </fraDiscounting> [1]
```

'Specifies whether discounting applies and, if so, what type.'

```
</...>
```

#### Diagram



#### Schema Component Representation

Complex Type: **FxFixingDate**

### XML Instance Representation

file:///C:/Irina-Local/Subversion/trunk/pdf/fpml-ird-4-7.xsd.html (68 of 110) [12/16/2009 3:40:46 PM]



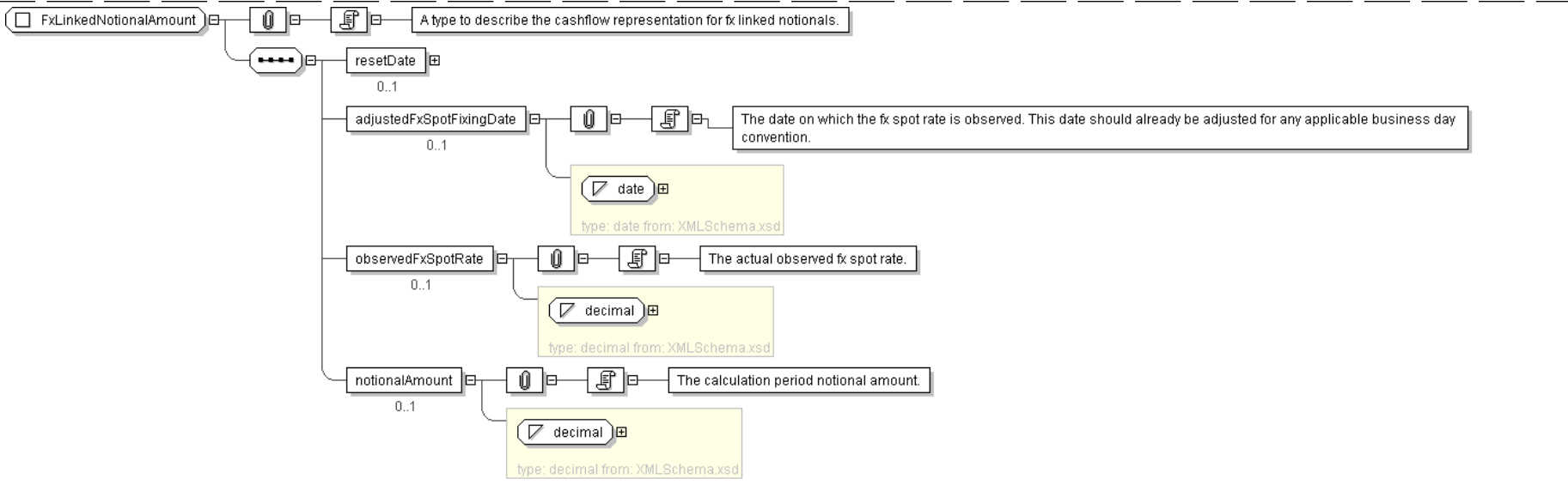


```
<...>
<resetDate> xsd:date </resetDate> [0..1]
<adjustedFxSpotFixingDate> xsd:date </adjustedFxSpotFixingDate> [0..1]
'The date on which the fx spot rate is observed. This date should already be adjusted for any applicable business day convention.'

<observedFxSpotRate> xsd:decimal </observedFxSpotRate> [0..1]
'The actual observed fx spot rate.'

<notionalAmount> xsd:decimal </notionalAmount> [0..1]
'The calculation period notional amount.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxLinkedNotionalAmount">
  <xsd:sequence>
    <xsd:element name="resetDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedFxSpotFixingDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="observedFxSpotRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="notionalAmount" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FxLinkedNotionalSchedule**

Super-types:	None
Sub-types:	None
Name	FxLinkedNotionalSchedule
Used by (from the same schema document)	Complex Type <a href="#">Calculation</a>
Abstract	no
Documentation	A type to describe a notional schedule where each notional that applies to a calculation period is calculated with reference to a notional amount or notional amount schedule in a different currency by means of a spot currency exchange rate which is normally observed at the beginning of each period.

XML Instance Representation

```

<...>
<constantNotionalScheduleReference> NotionalReference </constantNotionalScheduleReference> [1]
'A pointer style reference to the associated constant notional schedule defined elsewhere
in the document which contains the currency amounts which will be converted into the
varying notional currency amounts using the spot currency exchange rate.'

<initialValue> xsd:decimal </initialValue> [0..1]
'The initial currency amount for the varying notional.'

<varyingNotionalCurrency> Currency </varyingNotionalCurrency> [1]
'The currency of the varying notional amount, i.e. the notional amount being
determined periodically based on observation of a spot currency exchange rate.'

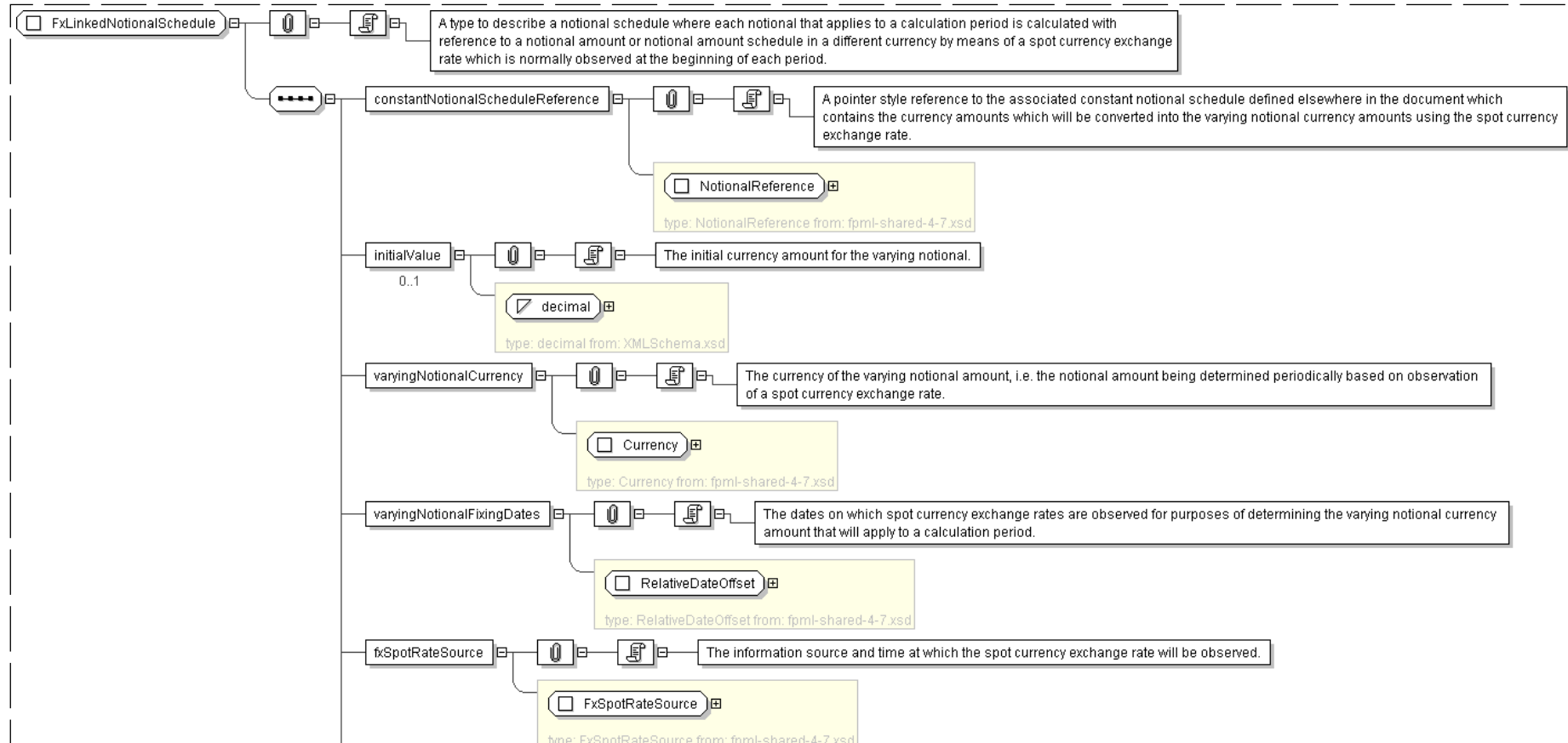
<varyingNotionalFixingDates> RelativeDateOffset </varyingNotionalFixingDates> [1]
'The dates on which spot currency exchange rates are observed for purposes of determining
the varying notional currency amount that will apply to a calculation period.'

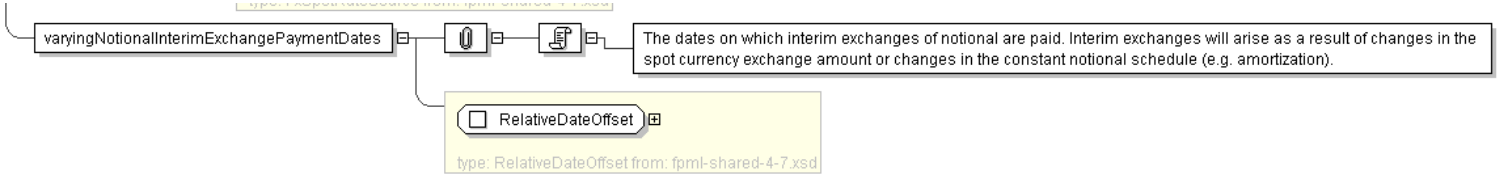
<fxSpotRateSource> FxSpotRateSource </fxSpotRateSource> [1]
'The information source and time at which the spot currency exchange rate will be observed.'

<varyingNotionalInterimExchangePaymentDates> RelativeDateOffset
</varyingNotionalInterimExchangePaymentDates> [1]
'The dates on which interim exchanges of notional are paid. Interim exchanges will arise as
a result of changes in the spot currency exchange amount or changes in the constant
notional schedule (e.g. amortization).'
</...>

```

## Diagram





Schema Component Representation

```
<xsd:complexType name="FxLinkedNotionalSchedule">
  <xsd:sequence>
    <xsd:element name="constantNotionalScheduleReference" type=" NotionalReference " />
    <xsd:element name="initialValue" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="varyingNotionalCurrency" type=" Currency " />
    <xsd:element name="varyingNotionalFixingDates" type=" RelativeDateOffset " />
    <xsd:element name="fxSpotRateSource" type=" FxSpotRateSource " />
    <xsd:element name="varyingNotionalInterimExchangePaymentDates" type=" RelativeDateOffset " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **InflationRateCalculation**

Super-types:	<a href="#">FloatingRateCalculation</a> < <b>InflationRateCalculation</b> (by extension)
Sub-types:	None
Name	InflationRateCalculation
Used by (from the same schema document)	Element <a href="#">InflationRateCalculation</a>
Abstract	no
Documentation	A type defining the components specifying an Inflation Rate Calculation

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [0..1]

  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

  <floatingRateMultiplierSchedule> Schedule </floatingRateMultiplierSchedule> [0..1]

  'A rate multiplier or multiplier schedule to apply to the floating rate. A multiplier
  schedule is expressed as explicit multipliers and dates. In the case of a schedule, the
  step dates may be subject to adjustment in accordance with any adjustments specified in
  the calculationPeriodDatesAdjustments. The multiplier can be a positive or negative
  decimal. This element should only be included if the multiplier is not equal to 1 (one) for
  the term of the stream.'

  <spreadSchedule> SpreadSchedule </spreadSchedule> [0..*]

  'The ISDA Spread or a Spread schedule expressed as explicit spreads and dates. In the case of
  a schedule, the step dates may be subject to adjustment in accordance with any
  adjustments specified in calculationPeriodDatesAdjustments. The spread is a per annum
  rate, expressed as a decimal. For purposes of determining a calculation period amount,
  if positive the spread will be added to the floating rate and if negative the spread will
  be subtracted from the floating rate. A positive 10 basis point (0.1%) spread would
  be represented as 0.001.'

  <rateTreatment> RateTreatmentEnum </rateTreatment> [0..1]

  'The specification of any rate conversion which needs to be applied to the observed rate
  before being used in any calculations. The two common conversions are for securities quoted
  on a bank discount basis which will need to be converted to either a Money Market Yield or
  Bond Equivalent Yield. See the Annex to the 2000 ISDA Definitions, Section 7.3. Certain
  General Definitions Relating to Floating Rate Options, paragraphs (g) and (h) for
  definitions of these terms.'

  <capRateSchedule> StrikeSchedule </capRateSchedule> [0..*]
```

'The cap rate or cap rate schedule, if any, which applies to the floating rate. The cap rate (strike) is only required where the floating rate on a swap stream is capped at a certain level. A cap rate schedule is expressed as explicit cap rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The cap rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'

<floorRateSchedule> [StrikeSchedule](#) </floorRateSchedule> [0..\*]

'The floor rate or floor rate schedule, if any, which applies to the floating rate. The floor rate (strike) is only required where the floating rate on a swap stream is floored at a certain strike level. A floor rate schedule is expressed as explicit floor rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The floor rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A floor rate of 5% would be represented as 0.05.'

<initialRate> [xsd:decimal](#) </initialRate> [0..1]

'The initial floating rate reset agreed between the principal parties involved in the trade. This is assumed to be the first required reset rate for the first regular calculation period. It should only be included when the rate is not equal to the rate published on the source implied by the floating rate index. An initial rate of 5% would be represented as 0.05.'

<finalRateRounding> [Rounding](#) </finalRateRounding> [0..1]

'The rounding convention to apply to the final rate used in determination of a calculation period amount.'

<averagingMethod> [AveragingMethodEnum](#) </averagingMethod> [0..1]

'If averaging is applicable, this component specifies whether a weighted or unweighted average method of calculation is to be used. The component must only be included when averaging applies.'

<negativeInterestRateTreatment> [NegativeInterestRateTreatmentEnum](#)  
</negativeInterestRateTreatment> [0..1]

'The specification of any provisions for calculating payment obligations when a floating rate is negative (either due to a quoted negative floating rate or by operation of a spread that is subtracted from the floating rate).'

<inflationLag> [Offset](#) </inflationLag> [1]

'an offsetting period from the payment date which determines the reference period for which the inflation index is observed.'

<indexSource> [RateSourcePage](#) </indexSource> [1]

'The reference source such as Reuters or Bloomberg.'

<mainPublication> [MainPublication](#) </mainPublication> [0..1]

'The current main publication source such as relevant web site or a government body.'

<interpolationMethod> [InterpolationMethod](#) </interpolationMethod> [1]

'The method used when calculating the Inflation Index Level from multiple points - the most common is Linear.'

<initialIndexLevel> [xsd:decimal](#) </initialIndexLevel> [0..1]

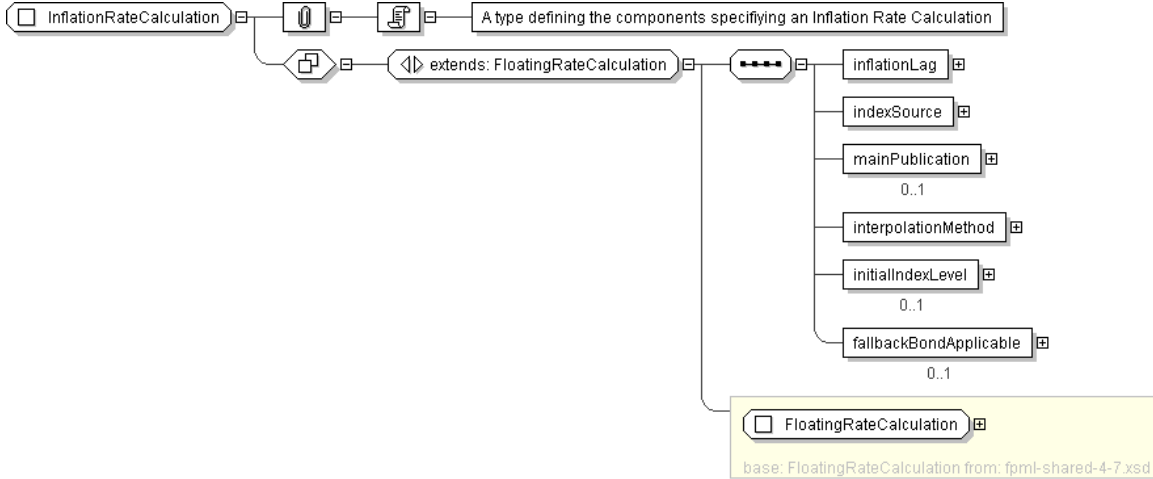
'initial known index level for the first calculation period.'

<fallbackBondApplicable> [xsd:boolean](#) </fallbackBondApplicable> [0..1]

'The applicability of a fallback bond as defined in the 2006 ISDA Inflation Derivatives Definitions, sections 1.3 and 1.8. Omission of this element implies a value of true.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="InflationRateCalculation">
  <xsd:complexContent>
    <xsd:extension base="FloatingRateCalculation">
      <xsd:sequence>
        <xsd:element name="inflationLag" type="Offset"/>
        <xsd:element name="indexSource" type="RateSourcePage"/>
        <xsd:element name="mainPublication" type="MainPublication" minOccurs="0"/>
        <xsd:element name="interpolationMethod" type="InterpolationMethod"/>
        <xsd:element name="initialIndexLevel" type="xsd:decimal" minOccurs="0"/>
        <xsd:element name="fallbackBondApplicable" type="xsd:boolean" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: InterestRateStream

Super-types:	<a href="#">Leg</a> < <b>InterestRateStream</b> (by extension)
Sub-types:	None

Name	InterestRateStream
Used by (from the same schema document)	Complex Type <a href="#">CapFloor</a> , Complex Type <a href="#">Swap</a>
Abstract	no
Documentation	A type defining the components specifying an interest rate stream, including both a parametric and cashflow representation for the stream of payments.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <calculationPeriodDates> CalculationPeriodDates </calculationPeriodDates> [1]
  'The calculation periods dates schedule.'

  <paymentDates> PaymentDates </paymentDates> [1]
  'The payment dates schedule.'
```

```
<resetDates> ResetDates </resetDates> [0..1]
```

'The reset dates schedule. The reset dates schedule only applies for a floating rate stream.'

```
<calculationPeriodAmount> CalculationPeriodAmount </calculationPeriodAmount> [1]
```

'The calculation period amount parameters.'

```
<stubCalculationPeriodAmount> StubCalculationPeriodAmount </stubCalculationPeriodAmount> [0..1]
```

'The stub calculation period amount parameters. This element must only be included if there is an initial or final stub calculation period. Even then, it must only be included if either the stub references a different floating rate tenor to the regular calculation periods, or if the stub is calculated as a linear interpolation of two different floating rate tenors, or if a specific stub rate or stub amount has been negotiated.'

```
<principalExchanges> PrincipalExchanges </principalExchanges> [0..1]
```

'The true/false flags indicating whether initial, intermediate or final exchanges of principal should occur.'

```
<cashflows> Cashflows </cashflows> [0..1]
```

'The cashflows representation of the swap stream.'

```
<settlementProvision> SettlementProvision </settlementProvision> [0..1]
```

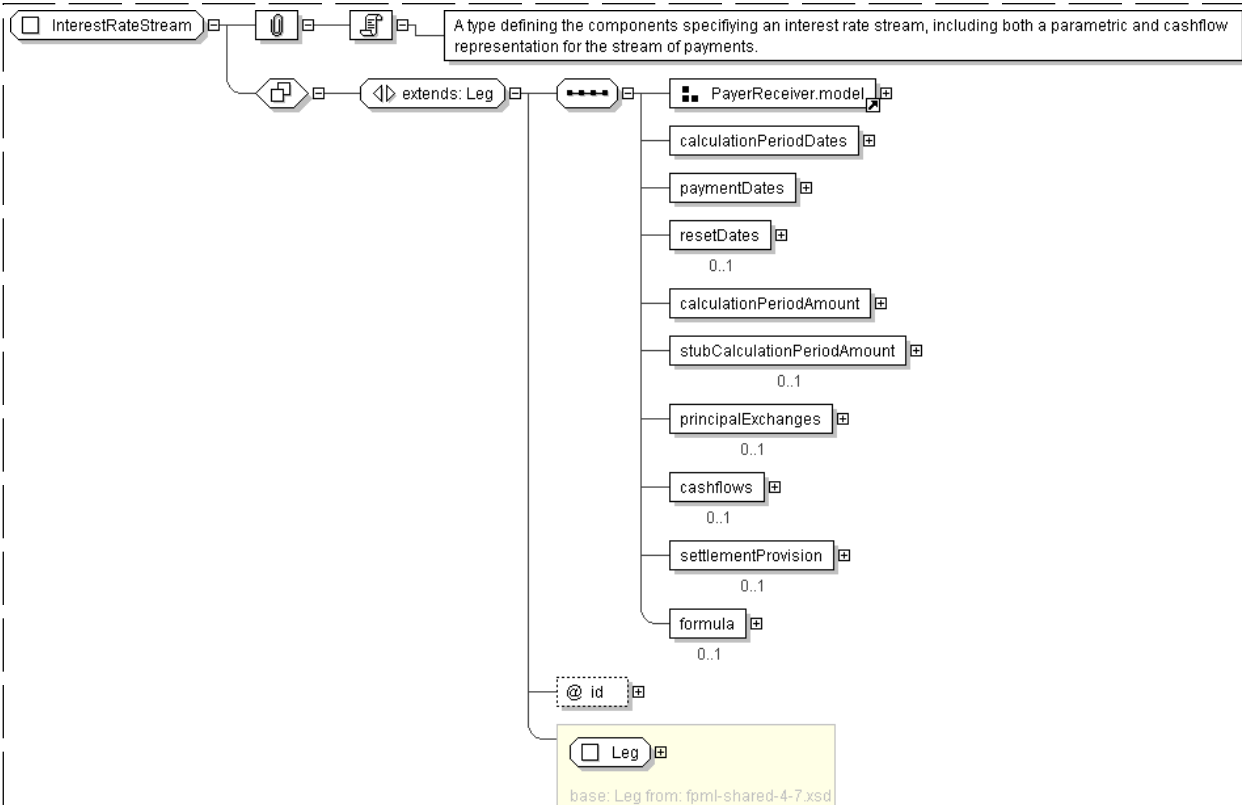
'A provision that allows the specification of settlement terms, occurring when the settlement currency is different to the notional currency of the trade.'

```
<formula> Formula </formula> [0..1]
```

'An interest rate derivative formula.'

```
</...>
```

#### Diagram



Schema Component Representation

```
<xsd:complexType name="InterestRateStream">
  <xsd:complexContent>
    <xsd:extension base=" Leg " >
      <xsd:sequence>
        <xsd:group ref=" PayerReceiver.model " />
        <xsd:element name="calculationPeriodDates" type=" CalculationPeriodDates " />
        <xsd:element name="paymentDates" type=" PaymentDates " />
        <xsd:element name="resetDates" type=" ResetDates " minOccurs="0"/>
        <xsd:element name="calculationPeriodAmount" type=" CalculationPeriodAmount " />
        <xsd:element name="stubCalculationPeriodAmount" type=" StubCalculationPeriodAmount " minOccurs="0"/>
        <xsd:element name="principalExchanges" type=" PrincipalExchanges " minOccurs="0"/>
        <xsd:element name="cashflows" type=" Cashflows " minOccurs="0"/>
        <xsd:element name="settlementProvision" type=" SettlementProvision " minOccurs="0"/>
        <xsd:element name="formula" type=" Formula " minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="id" type=" xsd:ID " />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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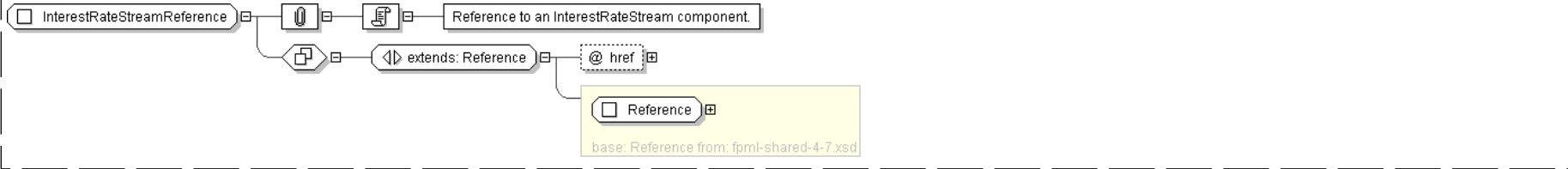
Complex Type: InterestRateStreamReference

Super-types:	<a href="#">Reference</a> < InterestRateStreamReference (by extension)
Sub-types:	None
Name	InterestRateStreamReference
Used by (from the same schema document)	Complex Type <a href="#">FinalCalculationPeriodDateAdjustment</a>
Abstract	no
Documentation	Reference to an InterestRateStream component.

XML Instance Representation

```
<...
 href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestRateStreamReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="InterestRateStream" />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: MandatoryEarlyTermination

Super-types:	None
--------------	------

Sub-types:	None
Name	MandatoryEarlyTermination
Used by (from the same schema document)	Model Group <a href="#">MandatoryEarlyTermination.model</a> , Model Group <a href="#">MandatoryEarlyTermination.model</a>
Abstract	no
Documentation	A type to define an early termination provision for which exercise is mandatory.

XML Instance Representation

```
<...
  id=" xsd:ID [0..1]">
  <mandatoryEarlyTerminationDate> AdjustableDate </mandatoryEarlyTerminationDate> [1]
  'The early termination date associated with a mandatory early termination of a swap.'

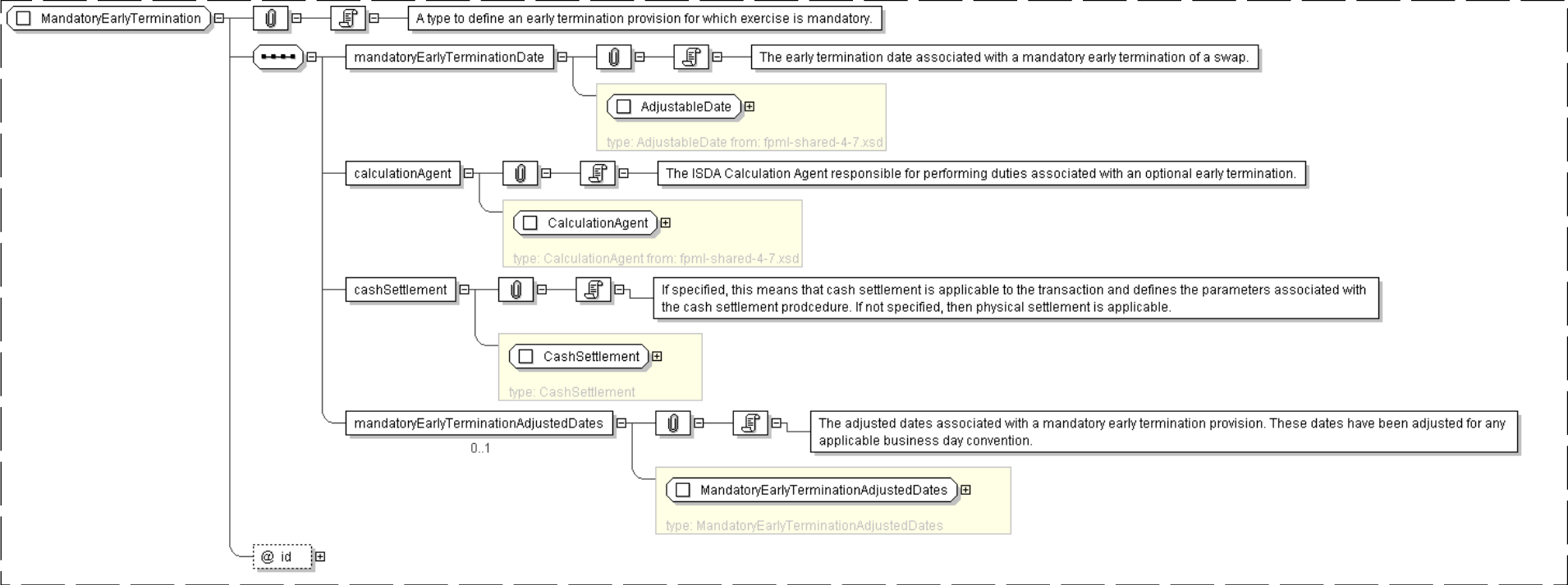
  <calculationAgent> CalculationAgent </calculationAgent> [1]
  'The ISDA Calculation Agent responsible for performing duties associated with an optional
  early termination.'

  <cashSettlement> CashSettlement </cashSettlement> [1]
  'If specified, this means that cash settlement is applicable to the transaction and defines
  the parameters associated with the cash settlement procdcedure. If not specified, then
  physical settlement is applicable.'

  <mandatoryEarlyTerminationAdjustedDates> MandatoryEarlyTerminationAdjustedDates
  </mandatoryEarlyTerminationAdjustedDates> [0..1]
  'The adjusted dates associated with a mandatory early termination provision. These dates
  have been adjusted for any applicable business day convention.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MandatoryEarlyTermination">
  <xsd:sequence>
    <xsd:element name="mandatoryEarlyTerminationDate" type=" AdjustableDate " />
```



```
<xsd:element name="calculationAgent" type=" CalculationAgent" />
<xsd:element name="cashSettlement" type=" CashSettlement" />
<xsd:element name="mandatoryEarlyTerminationAdjustedDates"
type=" MandatoryEarlyTerminationAdjustedDates " minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID" />
</xsd:complexType>
```

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Complex Type: **MandatoryEarlyTerminationAdjustedDates**

Super-types:	None
Sub-types:	None
Name	MandatoryEarlyTerminationAdjustedDates
Used by (from the same schema document)	Complex Type <a href="#">MandatoryEarlyTermination</a>
Abstract	no
Documentation	A type defining the adjusted dates associated with a mandatory early termination provision.

XML Instance Representation

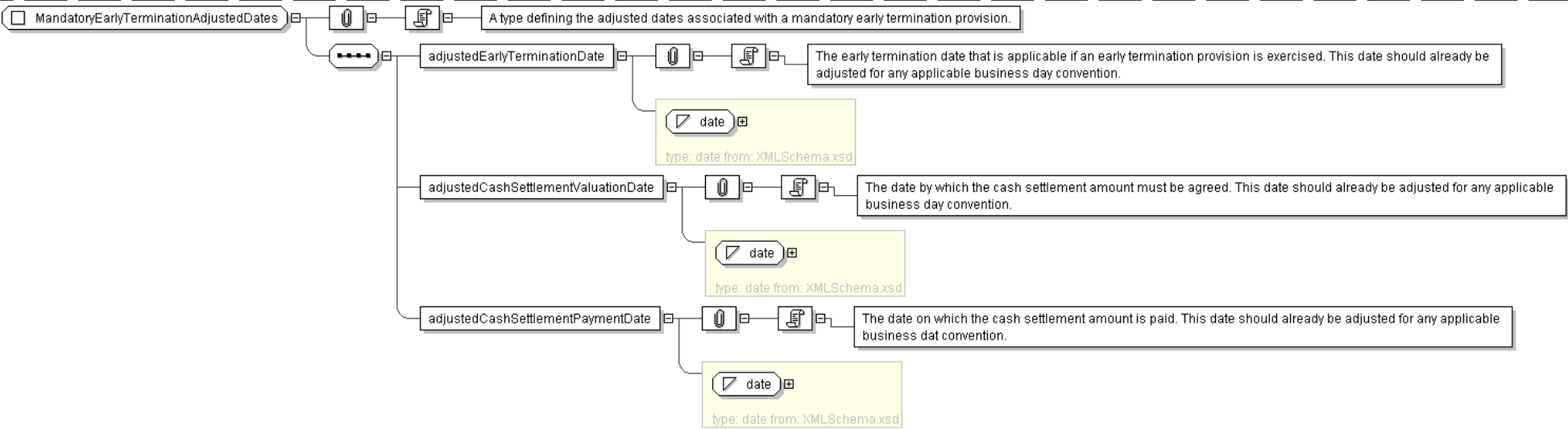
```
<...>
<adjustedEarlyTerminationDate> xsd:date </adjustedEarlyTerminationDate> [1]
'The early termination date that is applicable if an early termination provision is
exercised. This date should already be adjusted for any applicable business day convention.'

<adjustedCashSettlementValuationDate> xsd:date </adjustedCashSettlementValuationDate> [1]
'The date by which the cash settlement amount must be agreed. This date should already
be adjusted for any applicable business day convention.'

<adjustedCashSettlementPaymentDate> xsd:date </adjustedCashSettlementPaymentDate> [1]
'The date on which the cash settlement amount is paid. This date should already be adjusted
for any applicable business dat convention.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MandatoryEarlyTerminationAdjustedDates">
<xsd:sequence>
```

Complex Type: **NonDeliverableSettlement**

Super-types:	None
Sub-types:	None
Name	NonDeliverableSettlement
Used by (from the same schema document)	Complex Type <a href="#">SettlementProvision</a>
Abstract	no
Documentation	A type defining the parameters used when the reference currency of the swapStream is non-deliverable.

XML Instance Representation

```
<...>
<referenceCurrency> Currency </referenceCurrency> [1]
  'The currency in which the swap stream is denominated in.'
```

Start [Choice](#) [1]

```
<fxFixingDate> FxFixingDate </fxFixingDate> [1]
  'The date, when expressed as a relative date, on which the currency rate will be determined
  for the purpose of specifying the amount in deliverable currency.'
```

```
<fxFixingSchedule> AdjustableDates </fxFixingSchedule> [1]
  'The date, when expressed as a schedule of date(s), on which the currency rate will
  be determined for the purpose of specifying the amount in deliverable currency.'
```

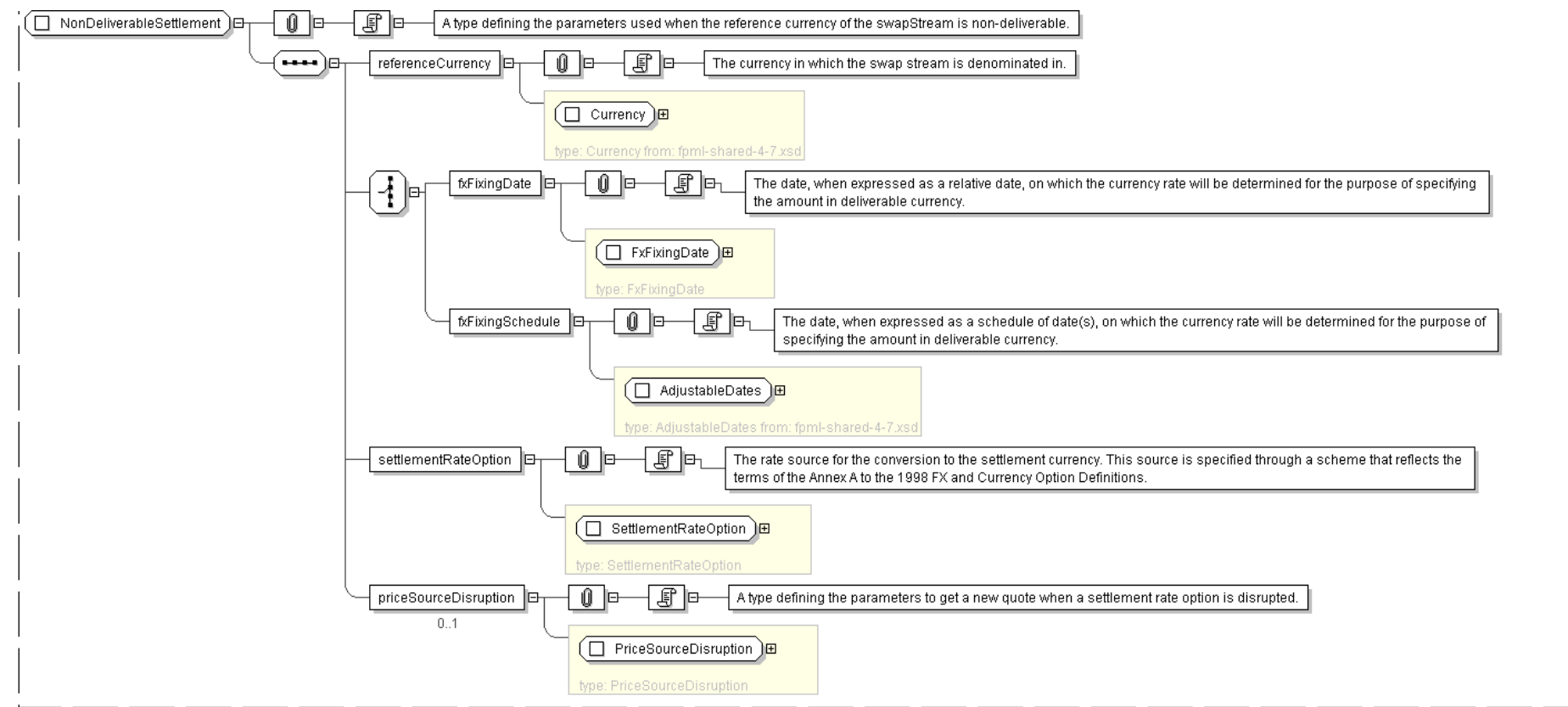
End Choice

```
<settlementRateOption> SettlementRateOption </settlementRateOption> [1]
  'The rate source for the conversion to the settlement currency. This source is
  specified through a scheme that reflects the terms of the Annex A to the 1998 FX and
  Currency Option Definitions.'
```

```
<priceSourceDisruption> PriceSourceDisruption </priceSourceDisruption> [0..1]
  'A type defining the parameters to get a new quote when a settlement rate option is disrupted.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="NonDeliverableSettlement">
  <xsd:sequence>
    <xsd:element name="referenceCurrency" type="Currency" />
    <xsd:choice>
      <xsd:element name="fxFixingDate" type="FxFixingDate" />
      <xsd:element name="fxFixingSchedule" type="AdjustableDates" />
    </xsd:choice>
    <xsd:element name="settlementRateOption" type="SettlementRateOption" />
    <xsd:element name="priceSourceDisruption" type="PriceSourceDisruption" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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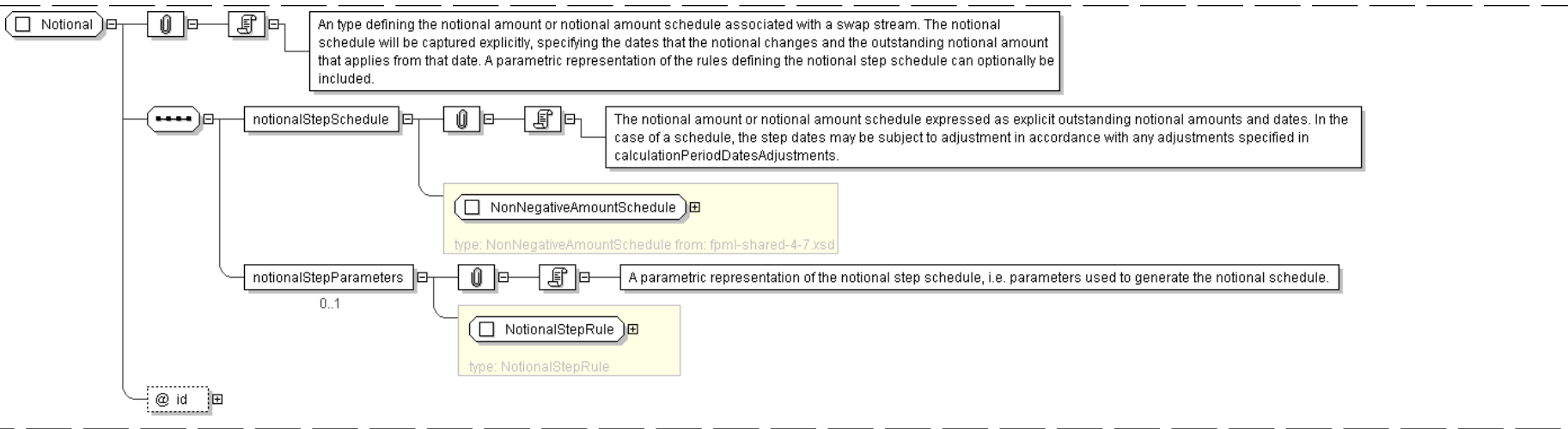
Complex Type: **Notional**

Super-types:	None
Sub-types:	None
Name	Notional
Used by (from the same schema document)	Complex Type <a href="#">Calculation</a>
Abstract	no
Documentation	An type defining the notional amount or notional amount schedule associated with a swap stream. The notional schedule will be captured explicitly, specifying the dates that the notional changes and the outstanding notional amount that applies from that date. A parametric representation of the rules defining the notional step schedule can optionally be included.

XML Instance Representation

```
<...  
id="xsd:ID [0..1]">  
  <notionalStepSchedule> NonNegativeAmountSchedule </notionalStepSchedule> [1]  
  'The notional amount or notional amount schedule expressed as explicit outstanding  
  notional amounts and dates. In the case of a schedule, the step dates may be subject  
  to adjustment in accordance with any adjustments specified  
  in calculationPeriodDatesAdjustments.'  
  
  <notionalStepParameters> NotionalStepRule </notionalStepParameters> [0..1]  
  'A parametric representation of the notional step schedule, i.e. parameters used to  
  generate the notional schedule.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Notional">  
  <xsd:sequence>  
    <xsd:element name="notionalStepSchedule" type=" NonNegativeAmountSchedule " />  
    <xsd:element name="notionalStepParameters" type=" NotionalStepRule " minOccurs="0"/>  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID " />  
</xsd:complexType>
```

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Complex Type: **NotionalStepRule**

Super-types:	None
Sub-types:	None
Name	NotionalStepRule
Used by (from the same schema document)	Complex Type <a href="#">Notional</a>
Abstract	no
Documentation	A type defining a parametric representation of the notional step schedule, i.e. parameters used to generate the notional balance on each step date. The step change in notional can be expressed in terms of either a fixed amount or as a percentage of either the initial notional or previous notional amount. This parametric representation is intended to cover the more common amortizing/accreting.

XML Instance Representation

```
<...>  
  <calculationPeriodDatesReference> CalculationPeriodDatesReference  
  </calculationPeriodDatesReference> [1]  
  'A pointer style reference to the associated calculation period dates component'
```

defined elsewhere in the document.'

<stepFrequency> [Period](#) </stepFrequency> [1]

'The frequency at which the step changes occur. This frequency must be a multiple of the stream calculation period frequency.'

<firstNotionalStepDate> [xsd:date](#) </firstNotionalStepDate> [1]

'Effective date of the first change in notional (i.e. a calculation period start date).'

<lastNotionalStepDate> [xsd:date](#) </lastNotionalStepDate> [1]

'Effective date of the last change in notional (i.e. a calculation period start date).'

Start [Choice](#) [1]

<notionalStepAmount> [xsd:decimal](#) </notionalStepAmount> [1]

'The explicit amount that the notional changes on each step date. This can be a positive or negative amount.'

<notionalStepRate> [xsd:decimal](#) </notionalStepRate> [1]

'The percentage amount by which the notional changes on each step date. The percentage is either a percentage applied to the initial notional amount or the previous outstanding notional, depending on the value of the element stepRelativeTo. The percentage can be either positive or negative. A percentage of 5% would be represented as 0.05.'

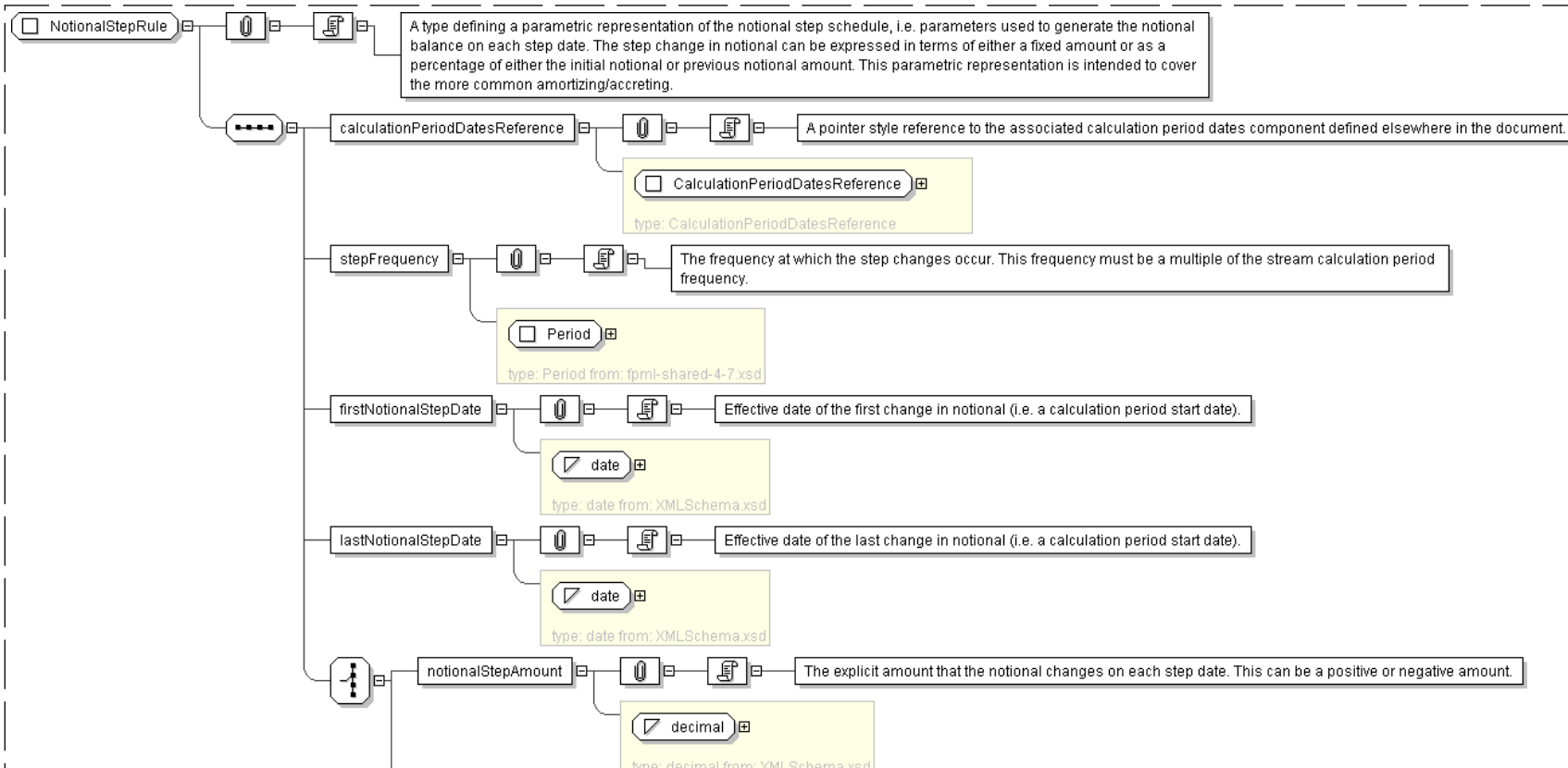
<stepRelativeTo> [StepRelativeToEnum](#) </stepRelativeTo> [1]

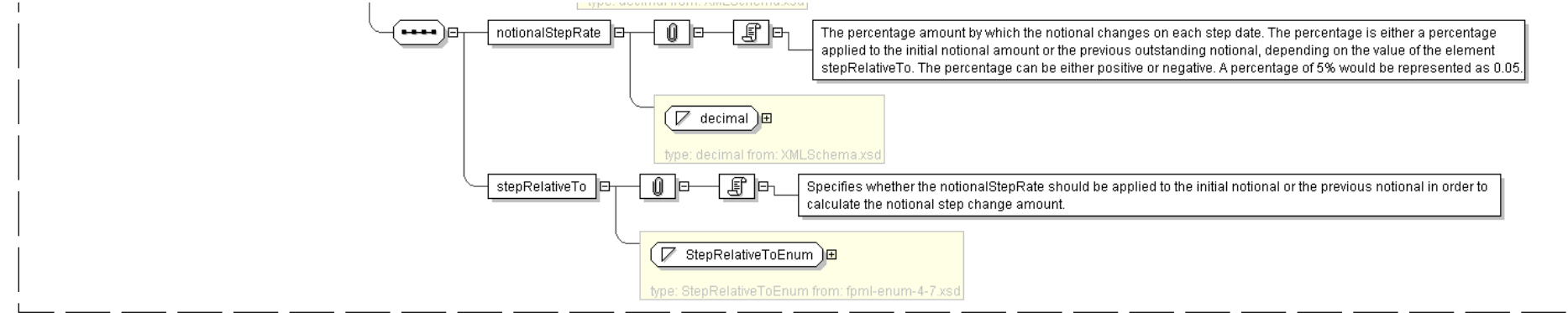
'Specifies whether the notionalStepRate should be applied to the initial notional or the previous notional in order to calculate the notional step change amount.'

End Choice

</...>

#### Diagram





Schema Component Representation

```
<xsd:complexType name="NotionalStepRule">
  <xsd:sequence>
    <xsd:element name="calculationPeriodDatesReference" type=" CalculationPeriodDatesReference " />
    <xsd:element name="stepFrequency" type=" Period " />
    <xsd:element name="firstNotionalStepDate" type=" xsd:date " />
    <xsd:element name="lastNotionalStepDate" type=" xsd:date " />
    <xsd:choice>
      <xsd:element name="notionalStepAmount" type=" xsd:decimal " />
      <xsd:sequence>
        <xsd:element name="notionalStepRate" type=" xsd:decimal " />
        <xsd:element name="stepRelativeTo" type=" StepRelativeToEnum " />
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **OptionalEarlyTermination**

Super-types:	None
Sub-types:	None

Name	OptionalEarlyTermination
Used by (from the same schema document)	Model Group <a href="#">OptionalEarlyTermination.model</a> , Model Group <a href="#">OptionalEarlyTermination.model</a>
Abstract	no
Documentation	A type defining an early termination provision where either or both parties have the right to exercise.

XML Instance Representation

```
<...>
  <singlePartyOption> SinglePartyOption </singlePartyOption> [0..1]
  'If optional early termination is not available to both parties then this component
  specifies the buyer and seller of the option.'

  <exercise> ... </exercise> [1]
  <exerciseNotice> ExerciseNotice </exerciseNotice> [0..*]
  'Definition of the party to whom notice of exercise should be given.'

  <followUpConfirmation> xsd:boolean </followUpConfirmation> [0..1]
  'A flag to indicate whether follow-up confirmation of exercise (written or electronic)
  is required following telephonic notice by the buyer to the seller or seller\'s agent.'

  <calculationAgent> CalculationAgent </calculationAgent> [1]
  'The ISDA Calculation Agent responsible for performing duties associated with an optional
  early termination.'

  <cashSettlement> CashSettlement </cashSettlement> [1]
```

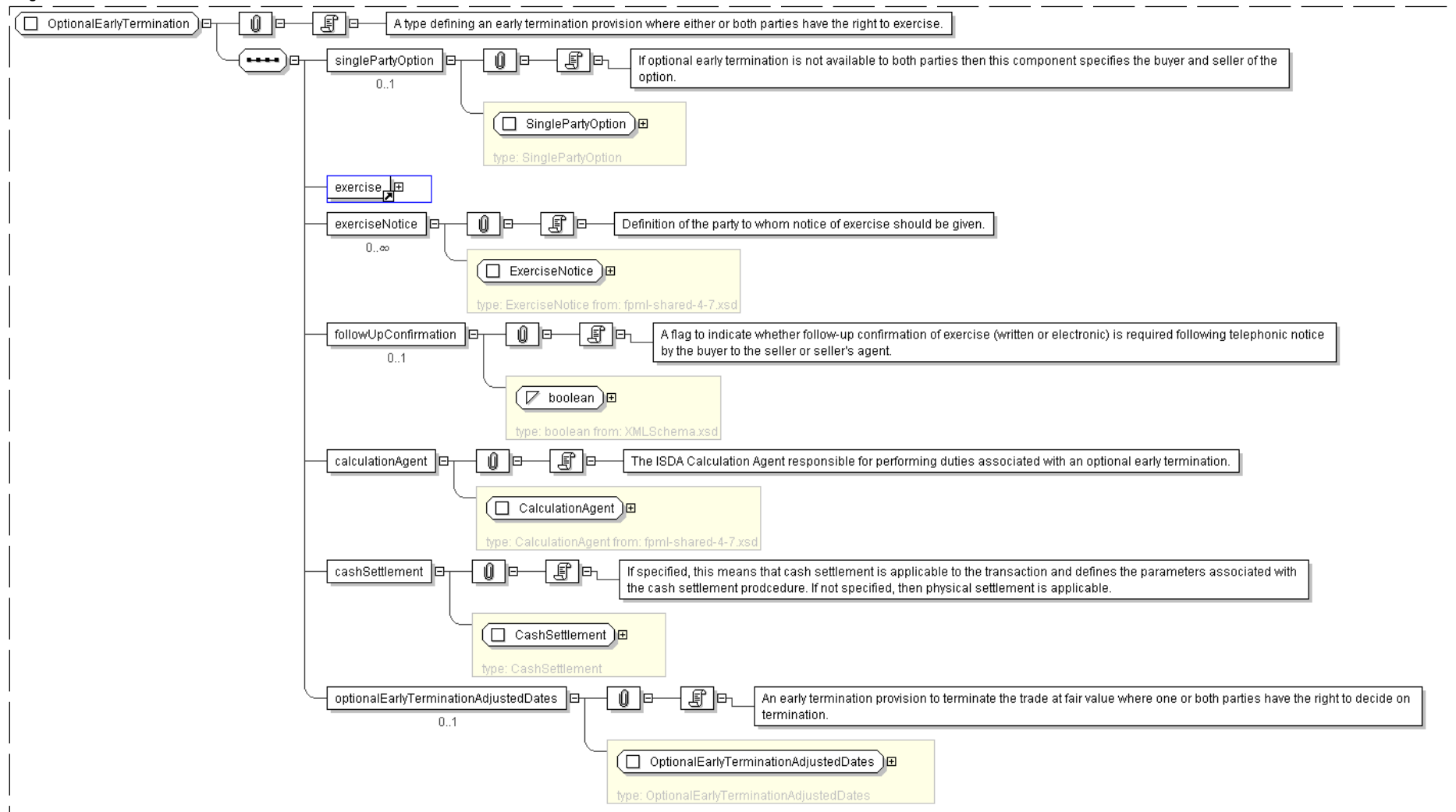
'If specified, this means that cash settlement is applicable to the transaction and defines the parameters associated with the cash settlement procedure. If not specified, then physical settlement is applicable.'

```
<optionalEarlyTerminationAdjustedDates> OptionalEarlyTerminationAdjustedDates
</optionalEarlyTerminationAdjustedDates> [0..1]
```

'An early termination provision to terminate the trade at fair value where one or both parties have the right to decide on termination.'

```
</...>
```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="OptionalEarlyTermination">
  <xsd:sequence>
    <xsd:element name="singlePartyOption" type="SinglePartyOption" minOccurs="0"/>
    <xsd:element ref="exercise" />
    <xsd:element name="exerciseNotice" type="ExerciseNotice" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="followUpConfirmation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="calculationAgent" type="CalculationAgent" />
    <xsd:element name="cashSettlement" type="CashSettlement" />
    <xsd:element name="optionalEarlyTerminationAdjustedDates" type="OptionalEarlyTerminationAdjustedDates" minOccurs="0"/>
  
```

```
<xsd:element name="optionalEarlyTerminationAdjustedDates"
  type=" OptionalEarlyTerminationAdjustedDates " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

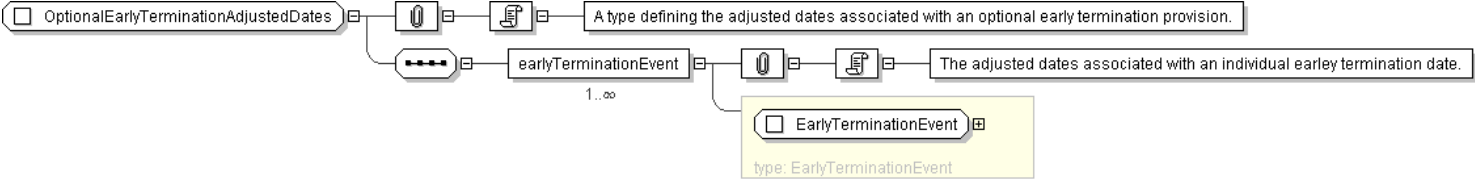
Complex Type: **OptionalEarlyTerminationAdjustedDates**

Super-types:	None
Sub-types:	None
Name	OptionalEarlyTerminationAdjustedDates
Used by (from the same schema document)	Complex Type <a href="#">OptionalEarlyTermination</a>
Abstract	no
Documentation	A type defining the adjusted dates associated with an optional early termination provision.

XML Instance Representation

```
<...>
<earlyTerminationEvent> EarlyTerminationEvent </earlyTerminationEvent> [1..*]
  'The adjusted dates associated with an individual earley termination date.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OptionalEarlyTerminationAdjustedDates">
  <xsd:sequence>
    <xsd:element name="earlyTerminationEvent" type=" EarlyTerminationEvent " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PaymentCalculationPeriod**

Super-types:	<a href="#">PaymentBase</a> < <b>PaymentCalculationPeriod</b> (by extension)
Sub-types:	None
Name	PaymentCalculationPeriod
Used by (from the same schema document)	Complex Type <a href="#">Cashflows</a>
Abstract	no
Documentation	A type defining the adjusted payment date and associated calculation period parameters required to calculate the actual or projected payment amount. This type forms part of the cashflow representation of a swap stream.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]"
href=" xsd:IDREF [0..1]
  'Attribute that can be used to reference the yield curve used to estimate the discount factor.'
">
<unadjustedPaymentDate> xsd:date </unadjustedPaymentDate> [0..1]
```



```
<adjustedPaymentDate> xsd:date </adjustedPaymentDate> [0..1]
```

'The adjusted payment date. This date should already be adjusted for any applicable business day convention. This component is not intended for use in trade confirmation but may be specified to allow the fee structure to also serve as a cashflow type component (all dates the Cashflows type are adjusted payment dates).'

Start Choice [1]

```
<calculationPeriod> CalculationPeriod </calculationPeriod> [1..*]
```

'The parameters used in the calculation of a fixed or floating rate calculation period amount. A list of calculation period elements may be ordered in the document by ascending start date. An FpML document which contains an unordered list of calculation periods is still regarded as a conformant document.'

```
<fixedPaymentAmount> xsd:decimal </fixedPaymentAmount> [1]
```

'A known fixed payment amount.'

End Choice

```
<discountFactor> xsd:decimal </discountFactor> [0..1]
```

'A decimal value representing the discount factor used to calculate the present value of cash flow.'

```
<forecastPaymentAmount> Money </forecastPaymentAmount> [0..1]
```

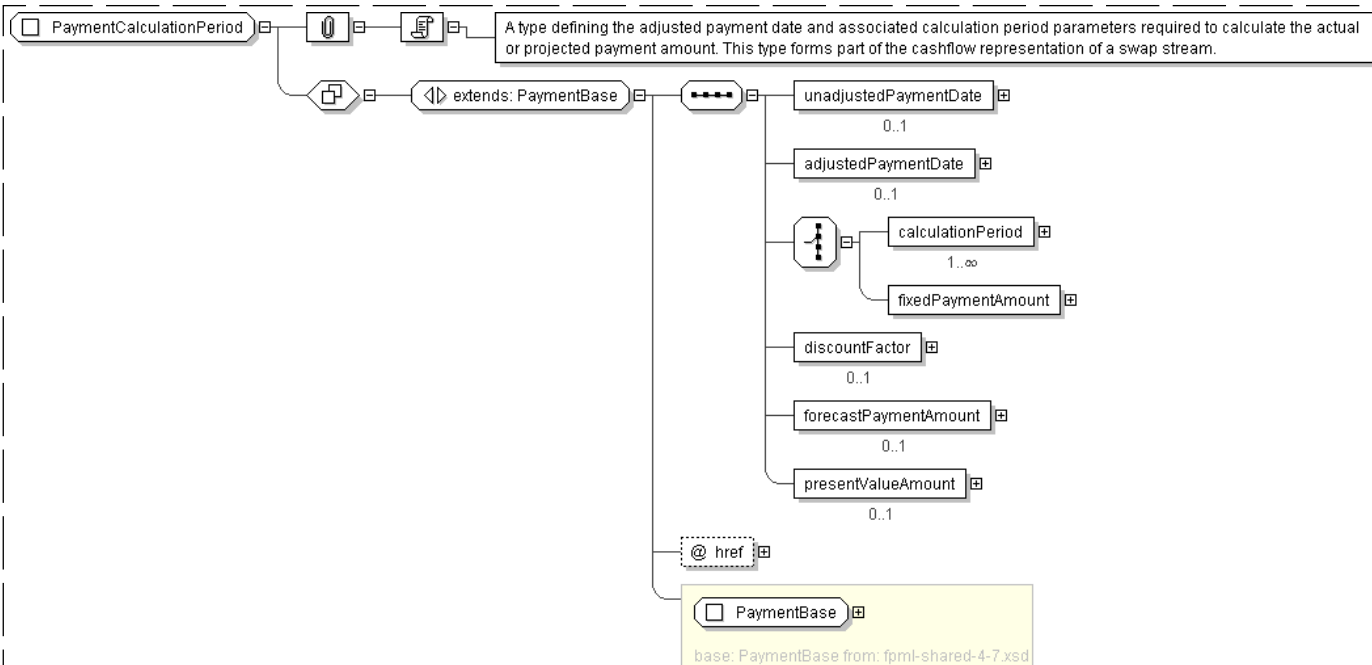
'A monetary amount representing the forecast of the future value of the payment.'

```
<presentValueAmount> Money </presentValueAmount> [0..1]
```

'A monetary amount representing the present value of the forecast payment.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="PaymentCalculationPeriod">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:element name="unadjustedPaymentDate" type="xsd:date" minOccurs="0"/>
      
```

Complex Type: **PaymentDates**

Super-types:	None
Sub-types:	None
Name	PaymentDates
Used by (from the same schema document)	Complex Type <a href="#">InterestRateStream</a>
Abstract	no
Documentation	A type defining parameters used to generate the payment dates schedule, including the specification of early or delayed payments. Payment dates are determined relative to the calculation period dates or the reset dates.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
Start Choice [1]
  <calculationPeriodDatesReference> CalculationPeriodDatesReference
  </calculationPeriodDatesReference> [1]
  'A pointer style reference to the associated calculation period dates component
  defined elsewhere in the document.'

  <resetDatesReference> ResetDatesReference </resetDatesReference> [1]
  'A pointer style reference to the associated reset dates component defined elsewhere in
  the document.'

  <valuationDatesReference> ValuationDatesReference </valuationDatesReference> [1]
  'A pointer style reference to the associated valuation dates component defined elsewhere in
  the document. Implemented for Brazilian-CDI Swaps where it will refer to
  the settlementProvision/nonDeliverableSettlement/fxFixingDate structure.'

End Choice
  <paymentFrequency> Frequency </paymentFrequency> [1]
  'The frequency at which regular payment dates occur. If the payment frequency is equal to
  the frequency defined in the calculation period dates component then one calculation
  period contributes to each payment amount. If the payment frequency is less frequent than
  the frequency defined in the calculation period dates component then more than one
  calculation period will contribute to the payment amount. A payment frequency more
  frequent than the calculation period frequency or one that is not a multiple of the
  calculation period frequency is invalid. If the payment frequency is of value T (term),
  the period is defined by the swap\swapStream\calculationPeriodDates\effectiveDate and the
  swap\swapStream\calculationPeriodDates\terminationDate.'

  <firstPaymentDate> xsd:date </firstPaymentDate> [0..1]
  'The first unadjusted payment date. This day may be subject to adjustment in accordance
  with any business day convention specified in paymentDatesAdjustments. This element must
  only be included if there is an initial stub. This date will normally correspond to
  an unadjusted calculation period start or end date. This is true even if early or
  delayed payment is specified to be applicable since the actual first payment date will be
  the specified number of days before or after the applicable adjusted calculation period
  start or end date with the resulting payment date then being adjusted in accordance with
  any business day convention specified in paymentDatesAdjustments.'

  <lastRegularPaymentDate> xsd:date </lastRegularPaymentDate> [0..1]
```

'The last regular unadjusted payment date. This day may be subject to adjustment in accordance with any business day convention specified in `paymentDatesAdjustments`. This element must only be included if there is a final stub. All calculation periods after this date contribute to the final payment. The final payment is made relative to the final set of calculation periods or the final reset date as the case may be. This date will normally correspond to an unadjusted calculation period start or end date. This is true even if early or delayed payment is specified to be applicable since the actual last regular payment date will be the specified number of days before or after the applicable adjusted calculation period start or end date with the resulting payment date then being adjusted in accordance with any business day convention specified in `paymentDatesAdjustments`.'

<payRelativeTo> [PayRelativeToEnum](#) </payRelativeTo> [1]

'Specifies whether the payments occur relative to each adjusted calculation period start date, adjusted calculation period end date or each reset date. The reset date is applicable in the case of certain euro (former French Franc) floating rate indices. Calculation period start date means relative to the start of the first calculation period contributing to a given payment. Similarly, calculation period end date means the end of the last calculation period contributing to a given payment. The valuation date is applicable for Brazilian-CDI swaps.'

<paymentDaysOffset> [Offset](#) </paymentDaysOffset> [0..1]

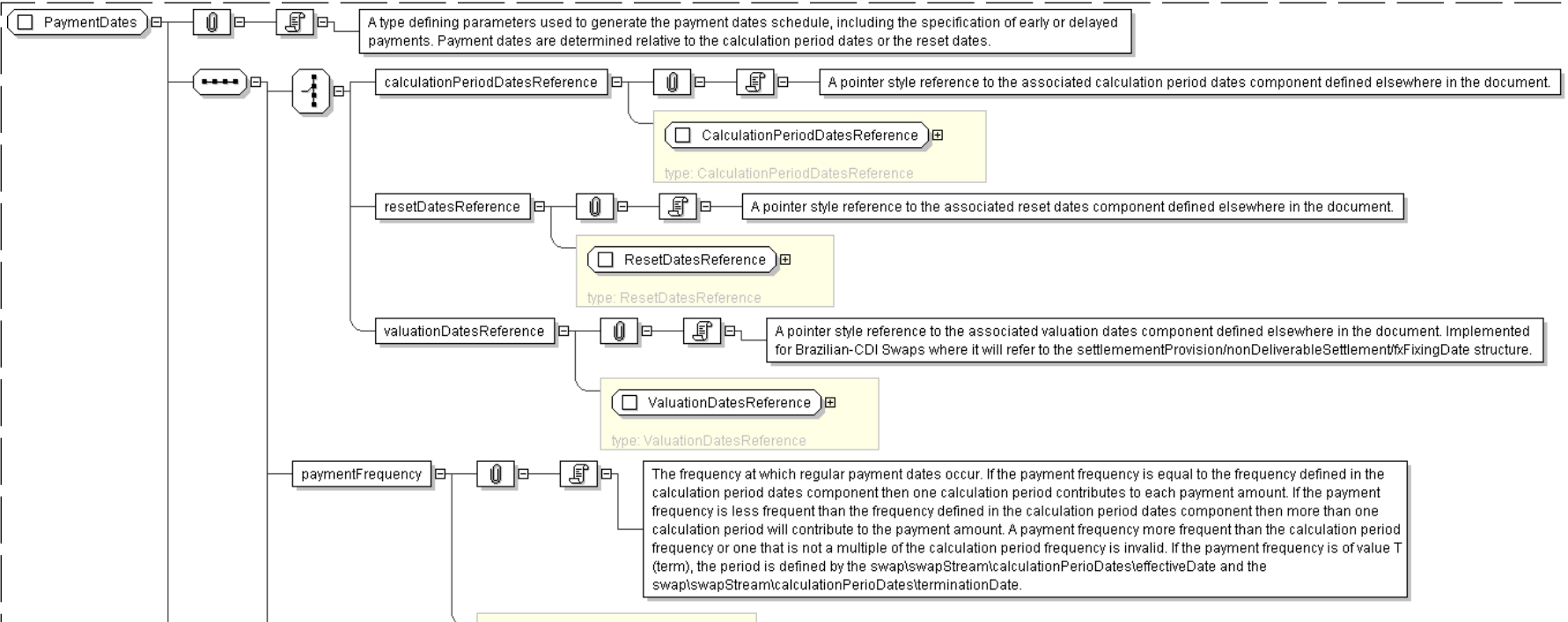
'If early payment or delayed payment is required, specifies the number of days offset that the payment occurs relative to what would otherwise be the unadjusted payment date. The offset can be specified in terms of either calendar or business days. Even in the case of a calendar days offset, the resulting payment date, adjusted for the specified calendar days offset, will still be adjusted in accordance with the specified payment dates adjustments. This element should only be included if early or delayed payment is applicable, i.e. if the `periodMultiplier` element value is not equal to zero. An early payment would be indicated by a negative `periodMultiplier` element value and a delayed payment (or payment lag) would be indicated by a positive `periodMultiplier` element value.'

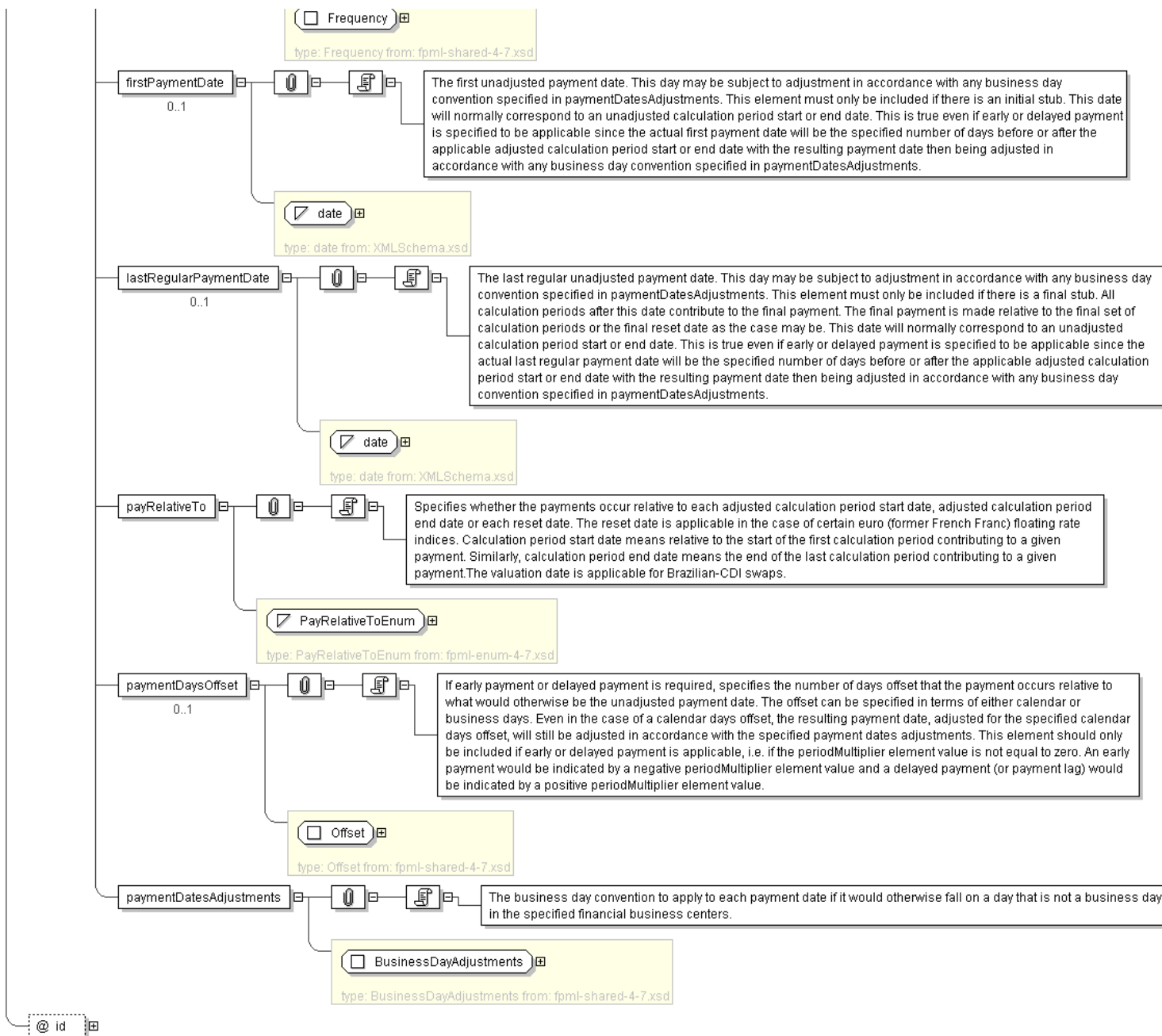
<paymentDatesAdjustments> [BusinessDayAdjustments](#) </paymentDatesAdjustments> [1]

'The business day convention to apply to each payment date if it would otherwise fall on a day that is not a business day in the specified financial business centers.'

</...>

#### Diagram





## Schema Component Representation

```

<xsd:complexType name="PaymentDates">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="calculationPeriodDatesReference" type="CalculationPeriodDatesReference"/>
      <xsd:element name="resetDatesReference" type="ResetDatesReference"/>
      <xsd:element name="valuationDatesReference" type="ValuationDatesReference"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>

```

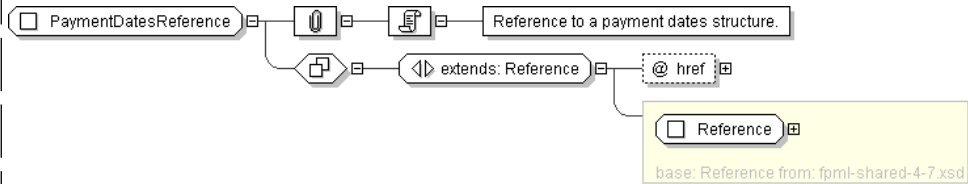
Complex Type: **PaymentDatesReference**

Super-types:	<a href="#">Reference</a> < <b>PaymentDatesReference</b> (by extension)
Sub-types:	None
Name	PaymentDatesReference
Used by (from the same schema document)	Complex Type <a href="#">DateRelativeToPaymentDates</a>
Abstract	no
Documentation	Reference to a payment dates structure.

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentDatesReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="PaymentDates"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **PriceSourceDisruption**

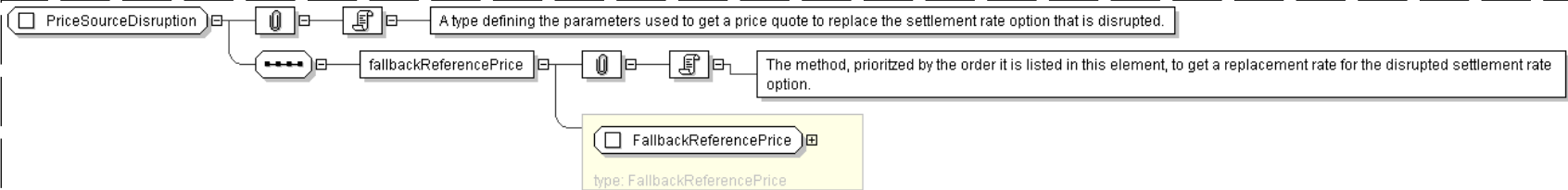
Super-types:	None
Sub-types:	None
Name	PriceSourceDisruption
Used by (from the same schema document)	Complex Type <a href="#">NonDeliverableSettlement</a>
Abstract	no
Documentation	A type defining the parameters used to get a price quote to replace the settlement rate option that is disrupted.

XML Instance Representation

```
<...>
  <fallbackReferencePrice> FallbackReferencePrice </fallbackReferencePrice> [1]
  'The method, prioritized by the order it is listed in this element, to get a replacement
  rate for the disrupted settlement rate option.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="PriceSourceDisruption">
  <xsd:sequence>
    <xsd:element name="fallbackReferencePrice" type="FallbackReferencePrice" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PrincipalExchange**

Super-types:	None
Sub-types:	None
Name	PrincipalExchange
Used by (from the same schema document)	Complex Type <a href="#">Cashflows</a>
Abstract	no
Documentation	A type defining a principal exchange amount and adjusted exchange date. The type forms part of the cashflow representation of a swap stream.

XML Instance Representation

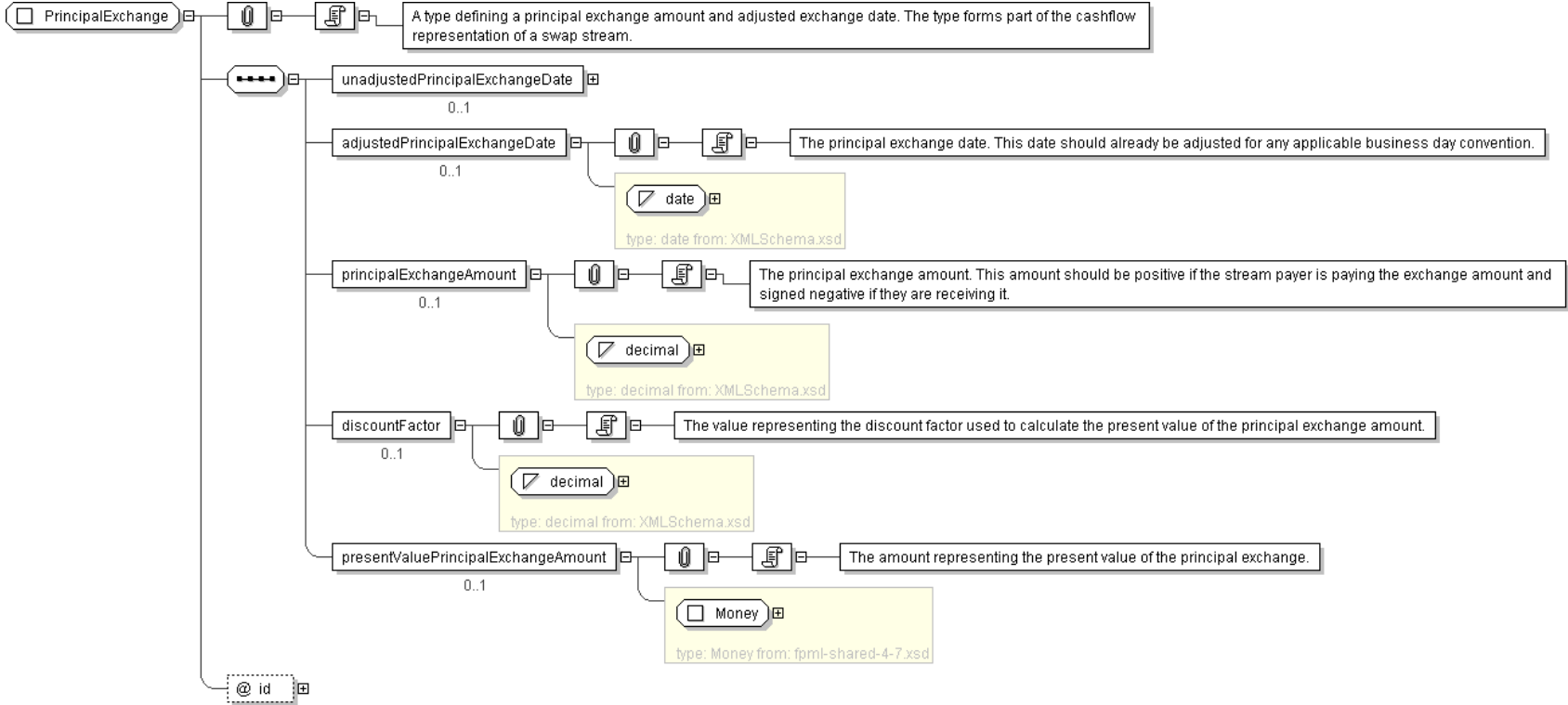
```
<...
id="xsd:ID [0..1]">
  <unadjustedPrincipalExchangeDate> xsd:date </unadjustedPrincipalExchangeDate> [0..1]
  <adjustedPrincipalExchangeDate> xsd:date </adjustedPrincipalExchangeDate> [0..1]
  'The principal exchange date. This date should already be adjusted for any applicable
  business day convention.'

  <principalExchangeAmount> xsd:decimal </principalExchangeAmount> [0..1]
  'The principal exchange amount. This amount should be positive if the stream payer is
  paying the exchange amount and signed negative if they are receiving it.'

  <discountFactor> xsd:decimal </discountFactor> [0..1]
  'The value representing the discount factor used to calculate the present value of
  the principal exchange amount.'

  <presentValuePrincipalExchangeAmount> Money </presentValuePrincipalExchangeAmount> [0..1]
  'The amount representing the present value of the principal exchange.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrincipalExchange">
  <xsd:sequence>
    <xsd:element name="unadjustedPrincipalExchangeDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedPrincipalExchangeDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="principalExchangeAmount" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="discountFactor" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="presentValuePrincipalExchangeAmount" type="Money" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: RelevantUnderlyingDateReference

Super-types:	<a href="#">Reference</a> < <b>RelevantUnderlyingDateReference</b> (by extension)
Sub-types:	None

Name	RelevantUnderlyingDateReference
Used by (from the same schema document)	Complex Type <a href="#">FinalCalculationPeriodDateAdjustment</a>
Abstract	no
Documentation	Reference to relevant underlying date.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]" />
<...>
```

Diagram



Complex Type: **ResetDates**

Super-types:	None
Sub-types:	None
Name	ResetDates
Used by (from the same schema document)	Complex Type <a href="#">InterestRateStream</a>
Abstract	no
Documentation	A type defining the parameters used to generate the reset dates schedule and associated fixing dates. The reset dates are determined relative to the calculation periods schedules dates.

XML Instance Representation

```
<...
id="xsd:ID [1]">
  <calculationPeriodDatesReference> CalculationPeriodDatesReference
</calculationPeriodDatesReference> [1]

'A pointer style reference to the associated calculation period dates component
defined elsewhere in the document.'

<resetRelativeTo> ResetRelativeToEnum </resetRelativeTo> [0..1]

'Specifies whether the reset dates are determined with respect to each adjusted
calculation period start date or adjusted calculation period end date. If the reset
frequency is specified as daily this element must not be included.'

<initialFixingDate> RelativeDateOffset </initialFixingDate> [0..1]
<fixingDates> RelativeDateOffset </fixingDates> [1]

'Specifies the fixing date relative to the reset date in terms of a business days offset and
an associated set of financial business centers. Normally these offset calculation rules
will be those specified in the ISDA definition for the relevant floating rate index (ISDA
\'s Floating Rate Option). However, non-standard offset calculation rules may apply for a
trade if mutually agreed by the principal parties to the transaction. The href attribute on
the dateRelativeTo element should reference the id attribute on the resetDates element.'

<rateCutOffDaysOffset> Offset </rateCutOffDaysOffset> [0..1]

'Specifies the number of business days before the period end date when the rate cut-off date
is assumed to apply. The financial business centers associated with determining the rate
cut-off date are those specified in the reset dates adjustments. The rate cut-off number
of days must be a negative integer (a value of zero would imply no rate cut off applies
in which case the rateCutOffDaysOffset element should not be included). The relevant rate
for each reset date in the period from, and including, a rate cut-off date to, but
excluding, the next applicable period end date (or, in the case of the last calculation
period, the termination date) will (solely for purposes of calculating the floating
amount payable on the next applicable payment date) be deemed to be the relevant rate in
effect on that rate cut-off date. For example, if rate cut-off days for a daily averaging
deal is -2 business days, then the refix rate applied on (period end date - 2 days) will
also be applied as the reset on (period end date - 1 day), i.e. the actual number of
reset dates remains the same but from the rate cut-off date until the period end date, the
```



same refix rate is applied. Note that in the case of several calculation periods contributing to a single payment, the rate cut-off is assumed only to apply to the final calculation period contributing to that payment. The day type associated with the offset must imply a business days offset.'

```
<resetFrequency> ResetFrequency </resetFrequency> [1]
```

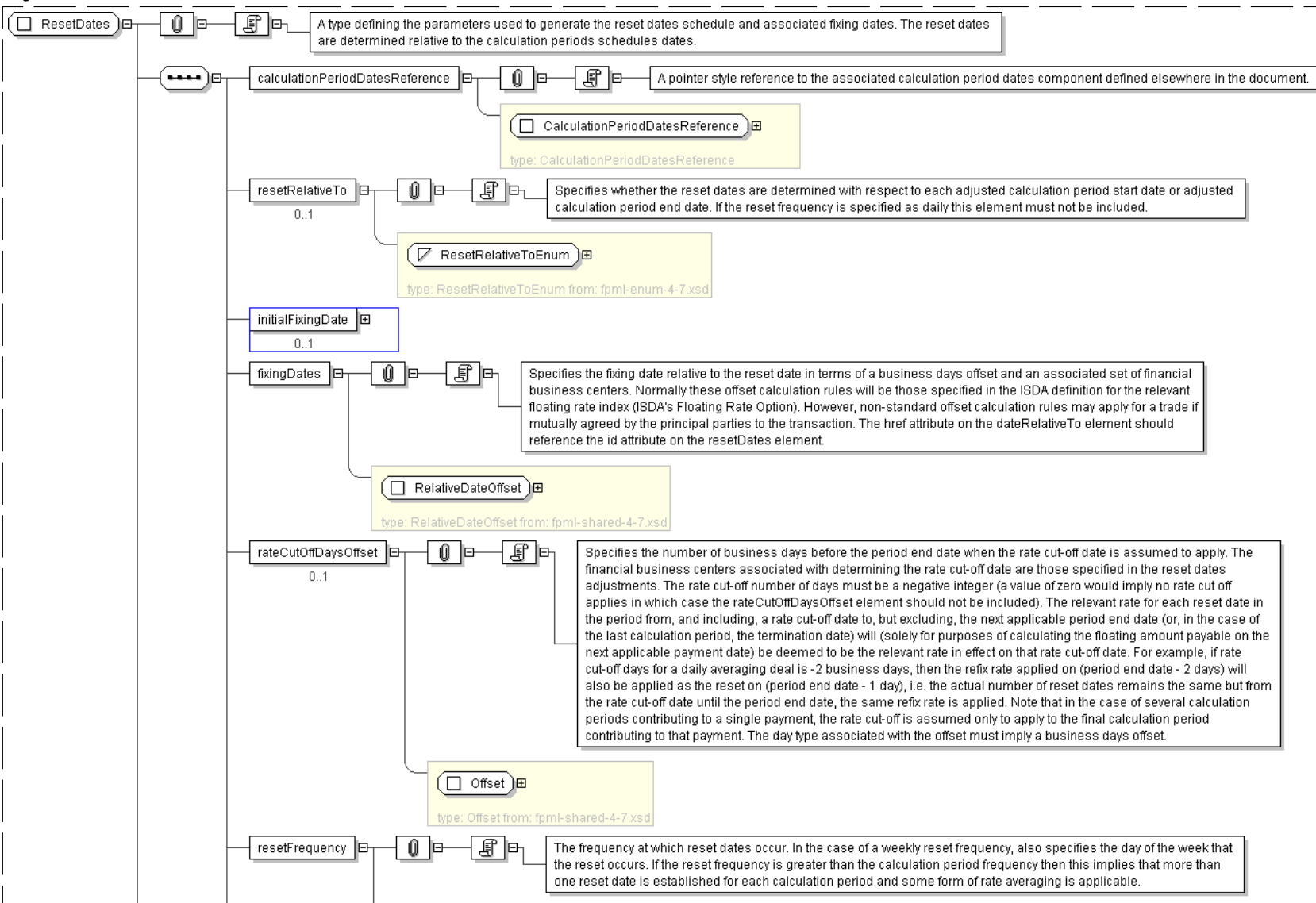
'The frequency at which reset dates occur. In the case of a weekly reset frequency, also specifies the day of the week that the reset occurs. If the reset frequency is greater than the calculation period frequency then this implies that more than one reset date is established for each calculation period and some form of rate averaging is applicable.'

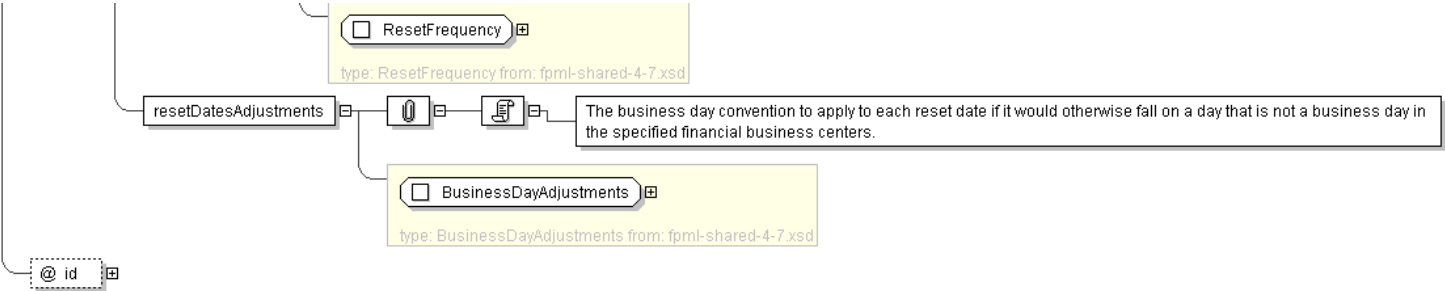
```
<resetDatesAdjustments> BusinessDayAdjustments </resetDatesAdjustments> [1]
```

'The business day convention to apply to each reset date if it would otherwise fall on a day that is not a business day in the specified financial business centers.'

```
</...>
```

## Diagram





Schema Component Representation

```
<xsd:complexType name="ResetDates">
  <xsd:sequence>
    <xsd:element name="calculationPeriodDatesReference" type="CalculationPeriodDatesReference" />
    <xsd:element name="resetRelativeTo" type="ResetRelativeToEnum" minOccurs="0"/>
    <xsd:element name="initialFixingDate" type="RelativeDateOffset" minOccurs="0"/>
    <xsd:element name="fixingDates" type="RelativeDateOffset" />
    <xsd:element name="rateCutOffDaysOffset" type="Offset" minOccurs="0"/>
    <xsd:element name="resetFrequency" type="ResetFrequency" />
    <xsd:element name="resetDatesAdjustments" type="BusinessDayAdjustments" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" use="required"/>
</xsd:complexType>
```

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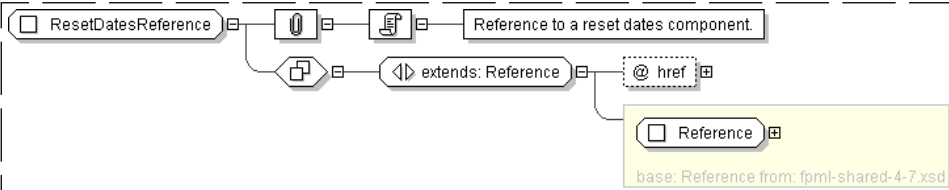
Complex Type: **ResetDatesReference**

Super-types:	<a href="#">Reference</a> < <b>ResetDatesReference</b> (by extension)
Sub-types:	None
Name	ResetDatesReference
Used by (from the same schema document)	Complex Type <a href="#">PaymentDates</a>
Abstract	no
Documentation	Reference to a reset dates component.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ResetDatesReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="ResetDates"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

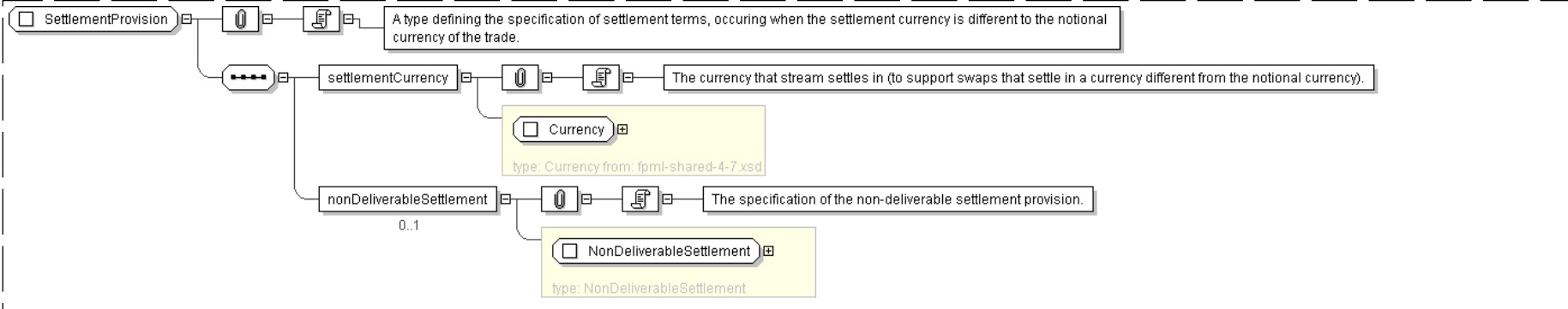
Complex Type: **SettlementProvision**

Super-types:	None
Sub-types:	None
Name	SettlementProvision
Used by (from the same schema document)	Complex Type <a href="#">InterestRateStream</a>
Abstract	no
Documentation	A type defining the specification of settlement terms, occurring when the settlement currency is different to the notional currency of the trade.

XML Instance Representation

```
<...>
  <settlementCurrency> Currency </settlementCurrency> [1]
  'The currency that stream settles in (to support swaps that settle in a currency different
  from the notional currency).'NonDeliverableSettlement </nonDeliverableSettlement> [0..1]
  'The specification of the non-deliverable settlement provision.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementProvision">
  <xsd:sequence>
    <xsd:element name="settlementCurrency" type="Currency" />
    <xsd:element name="nonDeliverableSettlement" type="NonDeliverableSettlement" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

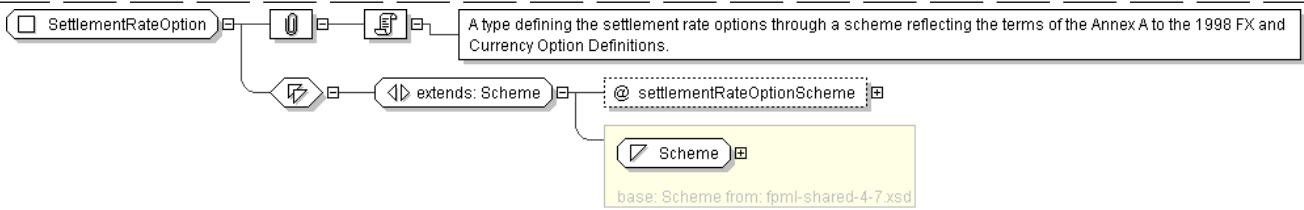
Complex Type: **SettlementRateOption**

Super-types:	<a href="#">Scheme</a> < <a href="#">SettlementRateOption</a> (by extension)
Sub-types:	None
Name	SettlementRateOption
Used by (from the same schema document)	Complex Type <a href="#">FallbackReferencePrice</a> , Complex Type <a href="#">NonDeliverableSettlement</a>
Abstract	no
Documentation	A type defining the settlement rate options through a scheme reflecting the terms of the Annex A to the 1998 FX and Currency Option Definitions.

XML Instance Representation

```
<...  
  settlementRateOptionScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementRateOption">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="settlementRateOptionScheme" type=" xsd:anyURI " default="http://www.  
        fpml.org/coding-scheme/settlement-rate-option"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **SinglePartyOption**

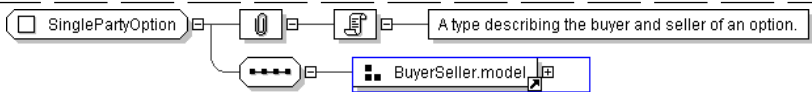
Super-types:	None
Sub-types:	None

Name	SinglePartyOption
Used by (from the same schema document)	Complex Type <a href="#">OptionalEarlyTermination</a>
Abstract	no
Documentation	A type describing the buyer and seller of an option.

XML Instance Representation

```
<...>  
  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]  
  'A reference to the party that buys this instrument, ie. pays for this instrument and  
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case  
  of FRAs this the fixed rate payer.'  
  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]  
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the  
  rights defined by this instrument and in return receives a payment for it. See 2000  
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SinglePartyOption">  
  <xsd:sequence>  
    <xsd:group ref=" BuyerSeller.model "/>  
  </xsd:sequence>  
</xsd:complexType>
```

Complex Type: **StubCalculationPeriodAmount**

Super-types:	None
Sub-types:	None
Name	StubCalculationPeriodAmount
Used by (from the same schema document)	Complex Type <a href="#">InterestRateStream</a>
Abstract	no
Documentation	<p>A type defining how the initial or final stub calculation period amounts is calculated. For example, the rate to be applied to the initial or final stub calculation period may be the linear interpolation of two different tenors for the floating rate index specified in the calculation period amount component, e.g. A two month stub period may used the linear interpolation of a one month and three month floating rate. The different rate tenors would be specified in this component. Note that a maximum of two rate tenors can be specified. If a stub period uses a single index tenor and this is the same as that specified in the calculation period amount component then the initial stub or final stub component, as the case may be, must not be included.</p>

XML Instance Representation

```
<...>
<calculationPeriodDatesReference> CalculationPeriodDatesReference
</calculationPeriodDatesReference> [1]
'A pointer style reference to the associated calculation period dates component
defined elsewhere in the document.'
```

Start [Choice](#) [1]

```
<initialStub> StubValue </initialStub> [1]
'Specifies how the initial stub amount is calculated. A single floating rate tenor different
to that used for the regular part of the calculation periods schedule may be specified, or
two floating tenors may be specified. If two floating rate tenors are specified then
Linear Interpolation (in accordance with the 2000 ISDA Definitions, Section 8.3.
Interpolation) is assumed to apply. Alternatively, an actual known stub rate or stub amount
may be specified.'
```

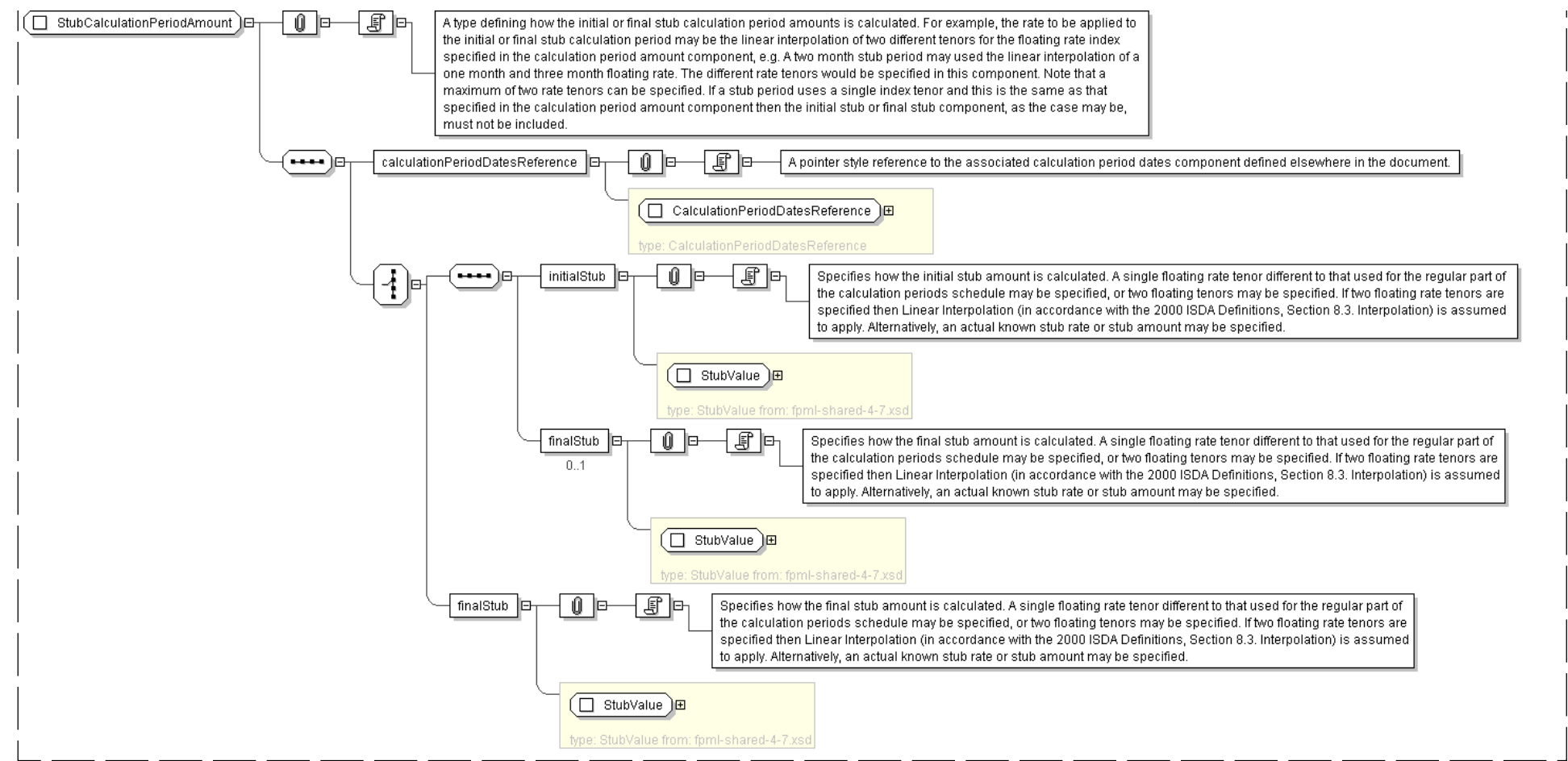
```
<finalStub> StubValue </finalStub> [0..1]
'Specifies how the final stub amount is calculated. A single floating rate tenor different
to that used for the regular part of the calculation periods schedule may be specified, or
two floating tenors may be specified. If two floating rate tenors are specified then
Linear Interpolation (in accordance with the 2000 ISDA Definitions, Section 8.3.
Interpolation) is assumed to apply. Alternatively, an actual known stub rate or stub amount
may be specified.'
```

```
<finalStub> StubValue </finalStub> [1]
'Specifies how the final stub amount is calculated. A single floating rate tenor different
to that used for the regular part of the calculation periods schedule may be specified, or
two floating tenors may be specified. If two floating rate tenors are specified then
Linear Interpolation (in accordance with the 2000 ISDA Definitions, Section 8.3.
Interpolation) is assumed to apply. Alternatively, an actual known stub rate or stub amount
may be specified.'
```

End Choice

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StubCalculationPeriodAmount">
  <xsd:sequence>
    <xsd:element name="calculationPeriodDatesReference" type=" CalculationPeriodDatesReference " />
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="initialStub" type=" StubValue " />
        <xsd:element name="finalStub" type=" StubValue " minOccurs="0"/>
      </xsd:sequence>
      <xsd:element name="finalStub" type=" StubValue " />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Swap**

Super-types:	<a href="#">Product</a> < <b>Swap</b> (by extension)
Sub-types:	None
Name	Swap
Used by (from the same schema document)	Element <a href="#">swap</a>
Abstract	no

Documentation

A type defining swap streams and additional payments between the principal parties involved in the swap.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <swapStream> InterestRateStream </swapStream> [1..*]
  'The swap streams.'

  <earlyTerminationProvision> EarlyTerminationProvision </earlyTerminationProvision> [0..1]
  'Parameters specifying provisions relating to the optional and mandatory early terminarion of
  a swap transaction.'

  <cancelableProvision> CancelableProvision </cancelableProvision> [0..1]
  'A provision that allows the specification of an embedded option within a swap giving the
  buyer of the option the right to terminate the swap, in whole or in part, on the
  early termination date.'

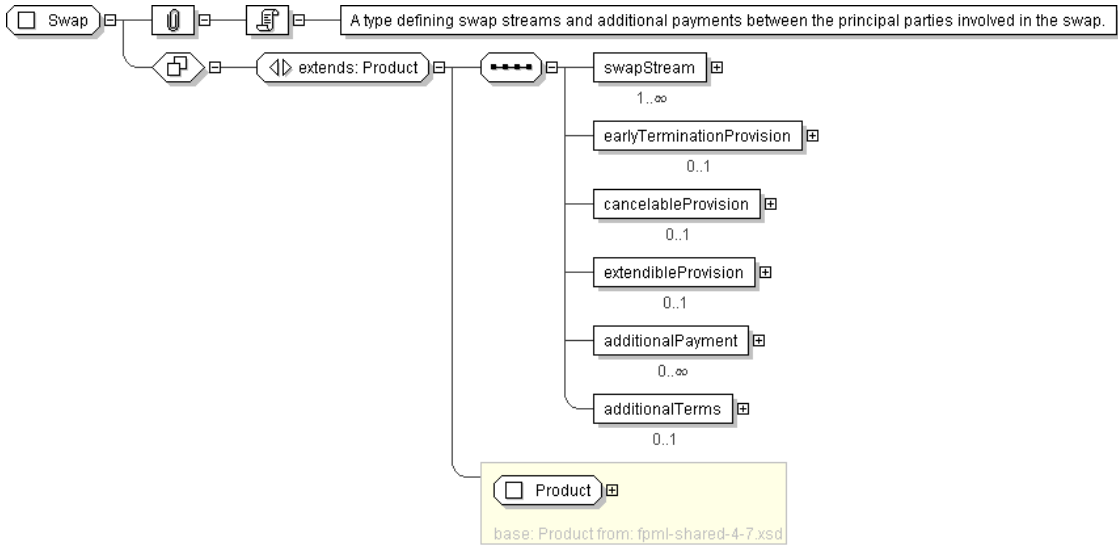
  <extendibleProvision> ExtendibleProvision </extendibleProvision> [0..1]
  'A provision that allows the specification of an embedded option with a swap giving the
  buyer of the option the right to extend the swap, in whole or in part, to the
  extended termination date.'

  <additionalPayment> Payment </additionalPayment> [0..*]
  'Additional payments between the principal parties.'

  <additionalTerms> SwapAdditionalTerms </additionalTerms> [0..1]
  'Contains any additional terms to the swap contract.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Swap">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:element name="swapStream" type=" InterestRateStream " maxOccurs="unbounded"/>
        <xsd:element name="earlyTerminationProvision" type=" EarlyTerminationProvision " minOccurs="0"/>
        <xsd:element name="cancelableProvision" type=" CancelableProvision " minOccurs="0"/>
        <xsd:element name="extendibleProvision" type=" ExtendibleProvision " minOccurs="0"/>
        <xsd:element name="additionalPayment" type=" Payment " minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="additionalTerms" type=" SwapAdditionalTerms " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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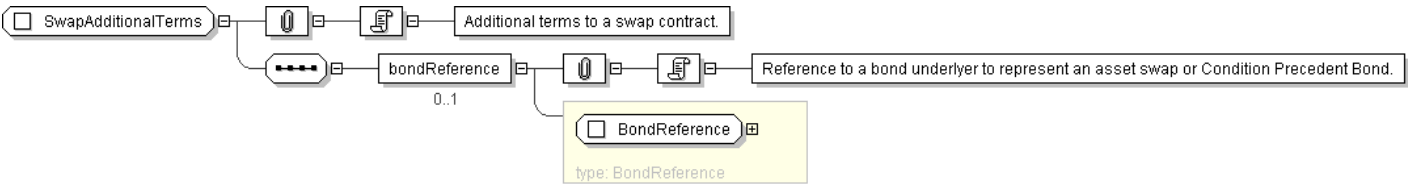
Complex Type: **SwapAdditionalTerms**

Super-types:	None
Sub-types:	None
Name	SwapAdditionalTerms
Used by (from the same schema document)	Complex Type <a href="#">Swap</a>
Abstract	no
Documentation	Additional terms to a swap contract.

XML Instance Representation

```
<...>
<bondReference> BondReference </bondReference> [0..1]
  'Reference to a bond underlyer to represent an asset swap or Condition Precedent Bond.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SwapAdditionalTerms">
  <xsd:sequence>
    <xsd:element name="bondReference" type=" BondReference " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Swaption**

Super-types:	<a href="#">Product</a> < <b>Swaption</b> (by extension)
Sub-types:	None
Name	Swaption
Used by (from the same schema document)	Element <a href="#">swaption</a>
Abstract	no
Documentation	A type to define an option on a swap.



XML Instance Representation

```
<...
  id=" xsd:ID [0..1]*">
    <productType> ProductType </productType> [0..*]
    'A classification of the type of product. FpML defines a simple product categorization using
    a coding scheme.'

    <productId> ProductId </productId> [0..*]
    'A product reference identifier allocated by a party. FpML does not define the domain
    values associated with this element. Note that the domain values for this element are
    not strictly an enumerated list.'

    <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
    'A reference to the party that buys this instrument, ie. pays for this instrument and
    receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
    of FRAs this the fixed rate payer.'

    <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
    'A reference to the party that sells ("writes") this instrument, i.e. that grants the
    rights defined by this instrument and in return receives a payment for it. See 2000
    ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

    <premium> Payment </premium> [0..*]
    'The option premium amount payable by buyer to seller on the specified payment date.'

    <exercise> ... </exercise> [1]
    <exerciseProcedure> ExerciseProcedure </exerciseProcedure> [0..1]
    'A set of parameters defining procedures associated with the exercise.'

    <calculationAgent> CalculationAgent </calculationAgent> [0..1]
    'The ISDA Calculation Agent responsible for performing duties associated with an optional
    early termination.'

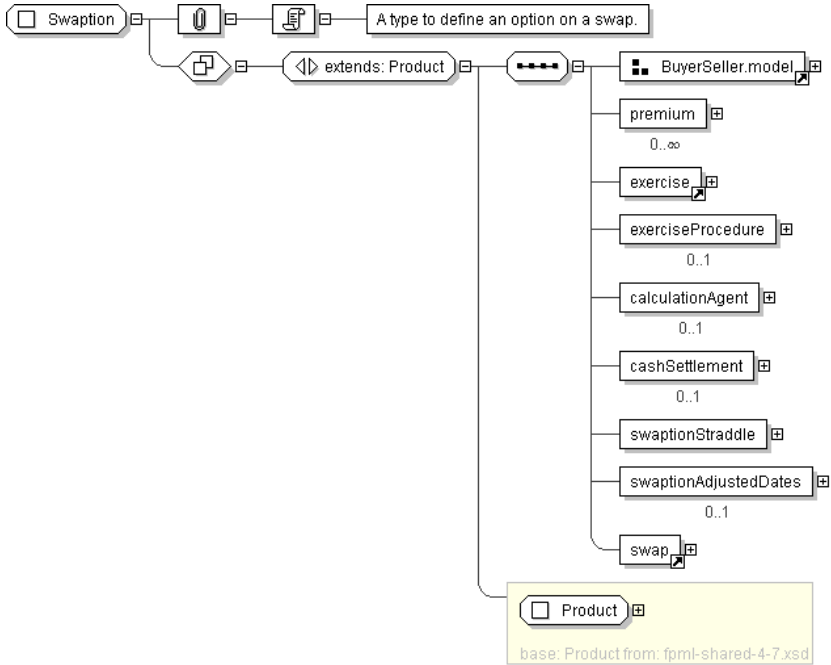
    <cashSettlement> CashSettlement </cashSettlement> [0..1]
    'If specified, this means that cash settlement is applicable to the transaction and defines
    the parameters associated with the cash settlement procedure. If not specified, then
    physical settlement is applicable.'

    <swaptionStraddle> xsd:boolean </swaptionStraddle> [1]
    'Whether the option is a swaption or a swaption straddle.'

    <swaptionAdjustedDates> SwaptionAdjustedDates </swaptionAdjustedDates> [0..1]
    'The adjusted dates associated with swaption exercise. These dates have been adjusted for
    any applicable business day convention.'

    <swap> ... </swap> [1]
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Swaption">
  <xsd:complexContent>
    <xsd:extension base="Product">
      <xsd:sequence>
        <xsd:group ref="BuyerSeller.model"/>
        <xsd:element name="premium" type="Payment" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="exercise"/>
        <xsd:element name="exerciseProcedure" type="ExerciseProcedure" minOccurs="0"/>
        <xsd:element name="calculationAgent" type="CalculationAgent" minOccurs="0"/>
        <xsd:element name="cashSettlement" type="CashSettlement" minOccurs="0"/>
        <xsd:element name="swaptionStraddle" type="xsd:boolean"/>
        <xsd:element name="swaptionAdjustedDates" type="SwaptionAdjustedDates" minOccurs="0"/>
        <xsd:element ref="swap"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: SwaptionAdjustedDates

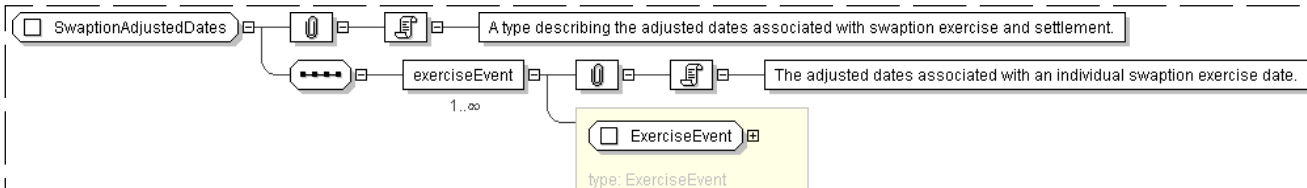
Super-types:	None
Sub-types:	None
Name	SwaptionAdjustedDates
Used by (from the same schema document)	Complex Type <a href="#">Swaption</a>
Abstract	no
Documentation	A type describing the adjusted dates associated with swaption exercise and settlement.

XML Instance Representation

```
<...>
  <exerciseEvent> ExerciseEvent </exerciseEvent> [1..*]
  'The adjusted dates associated with an individual swaption exercise date.'
```

</...>

### Diagram



### Schema Component Representation

```
<xsd:complexType name="SwaptionAdjustedDates">
  <xsd:sequence>
    <xsd:element name="exerciseEvent" type="ExerciseEvent" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **ValuationDatesReference**

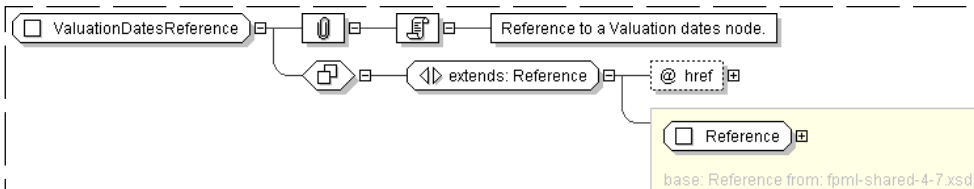
Super-types:	<a href="#">Reference</a> < <b>ValuationDatesReference</b> (by extension)
Sub-types:	None

<b>Name</b>	ValuationDatesReference
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">PaymentDates</a>
<b><u>Abstract</u></b>	no
<b>Documentation</b>	Reference to a Valuation dates node.

### XML Instance Representation

```
<...  
href=" xsd:IDREF [1]" />
```

### Diagram



### Schema Component Representation

```
<xsd:complexType name="ValuationDatesReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="FxFixingDate"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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**Complex Type:** ValuationPostponement

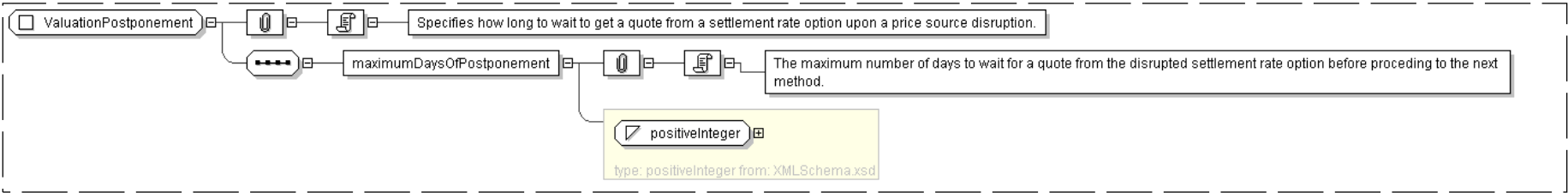
<i>Super-types:</i>	None
<i>Sub-types:</i>	None

Name	ValuationPostponement
Used by (from the same schema document)	Complex Type <a href="#">FallbackReferencePrice</a>
Abstract	no
Documentation	Specifies how long to wait to get a quote from a settlement rate option upon a price source disruption.

XML Instance Representation

```
<...>
<maximumDaysOfPostponement> xsd:positiveInteger </maximumDaysOfPostponement> [1]
'The maximum number of days to wait for a quote from the disrupted settlement rate option before proceeding to the next method.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ValuationPostponement">
  <xsd:sequence>
    <xsd:element name="maximumDaysOfPostponement" type=" xsd:positiveInteger " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **YieldCurveMethod**

Super-types:	None
Sub-types:	None

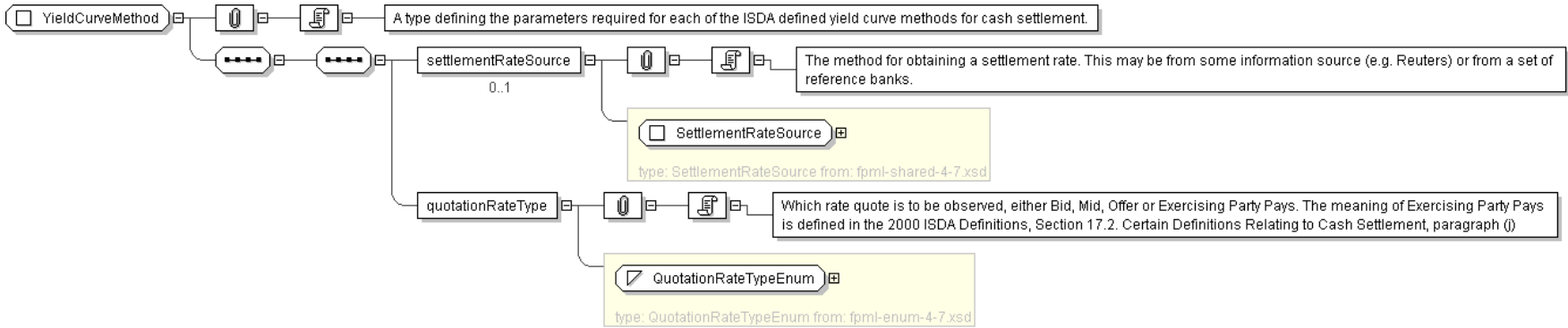
Name	YieldCurveMethod
Used by (from the same schema document)	Complex Type <a href="#">CashSettlement</a> , Complex Type <a href="#">CashSettlement</a> , Complex Type <a href="#">CashSettlement</a>
Abstract	no
Documentation	A type defining the parameters required for each of the ISDA defined yield curve methods for cash settlement.

XML Instance Representation

```
<...>
<settlementRateSource> SettlementRateSource </settlementRateSource> [0..1]
'The method for obtaining a settlement rate. This may be from some information source (e. g. Reuters) or from a set of reference banks.'

<quotationRateType> QuotationRateTypeEnum </quotationRateType> [1]
'Which rate quote is to be observed, either Bid, Mid, Offer or Exercising Party Pays. The meaning of Exercising Party Pays is defined in the 2000 ISDA Definitions, Section 17.2. Certain Definitions Relating to Cash Settlement, paragraph (j)'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="YieldCurveMethod">
  <xsd:sequence>
    <xsd:sequence>
      <xsd:element name="settlementRateSource" type=" SettlementRateSource " minOccurs="0"/>
      <xsd:element name="quotationRateType" type=" QuotationRateTypeEnum " />
    </xsd:sequence>
  </xsd:sequence>
</xsd:complexType>
```

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Model Group: DiscountRate.model

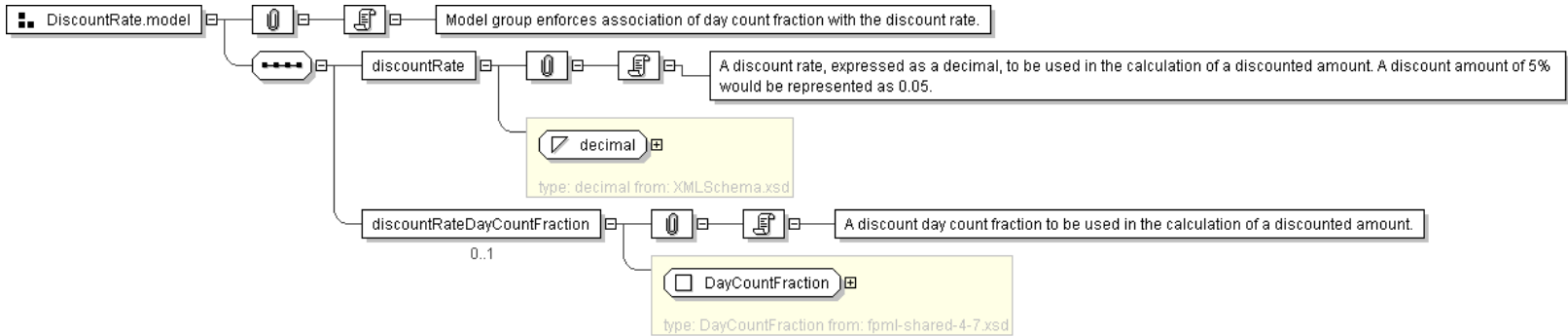
Name	DiscountRate.model
Used by (from the same schema document)	Complex Type <a href="#">Discounting</a>
Documentation	Model group enforces association of day count fraction with the discount rate.

XML Instance Representation

```
<discountRate> xsd:decimal </discountRate> [1]
'A discount rate, expressed as a decimal, to be used in the calculation of a discounted amount. A discount amount of 5% would be represented as 0.05.'
```

```
<discountRateDayCountFraction> DayCountFraction </discountRateDayCountFraction> [0..1]
'A discount day count fraction to be used in the calculation of a discounted amount.'
```

Diagram



Schema Component Representation

```
<xsd:group name="DiscountRate.model">
  <xsd:sequence>
```



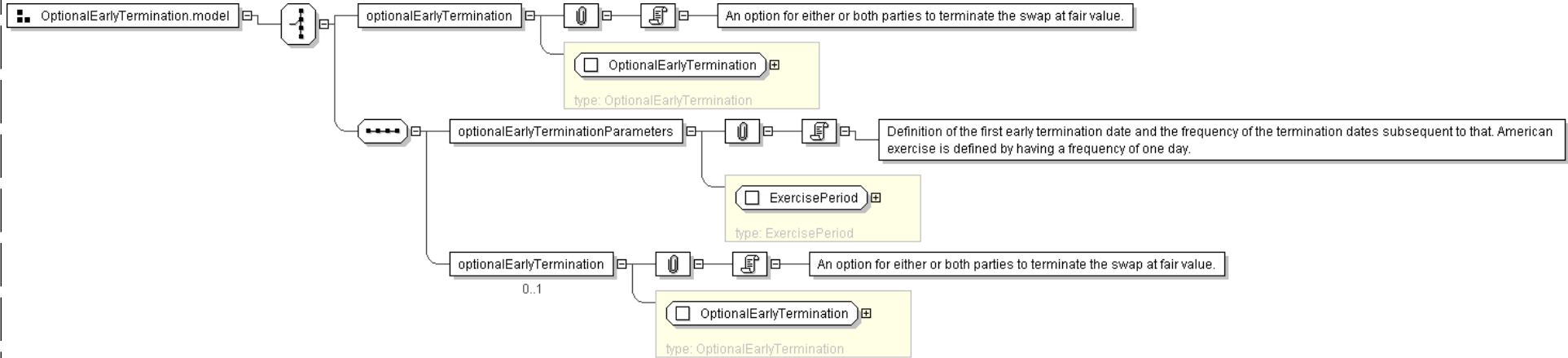
XML Instance Representation

```
Start Choice [1]
<optionalEarlyTermination> OptionalEarlyTermination </optionalEarlyTermination> [1]
'An option for either or both parties to terminate the swap at fair value.'

<optionalEarlyTerminationParameters> ExercisePeriod </optionalEarlyTerminationParameters> [1]
'Definition of the first early termination date and the frequency of the termination
dates subsequent to that. American exercise is defined by having a frequency of one day.'

<optionalEarlyTermination> OptionalEarlyTermination </optionalEarlyTermination> [0..1]
'An option for either or both parties to terminate the swap at fair value.'
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="OptionalEarlyTermination.model">
  <xsd:choice>
    <xsd:element name="optionalEarlyTermination" type=" OptionalEarlyTermination " />
    <xsd:sequence>
      <xsd:element name="optionalEarlyTerminationParameters" type=" ExercisePeriod " />
      <xsd:element name="optionalEarlyTermination" type=" OptionalEarlyTermination " minOccurs="0" />
    </xsd:sequence>
  </xsd:choice>
</xsd:group>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <u>AusStates</u> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
---

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" Address " &gt; &lt;sequence&gt; &lt;element name="state" type=" <u>AusStates</u> "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: <http://www.w3.org/TR/xmlschema-1/#identity-constraint-Definitions>.



**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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  - [Complex Type: \*\*OneOffFeeNotice\*\*](#)
  - [Complex Type: \*\*OneOffFeePayment\*\*](#)
  - [Complex Type: \*\*ParticipationAmount\*\*](#)
  - [Complex Type: \*\*PikPeriod\*\*](#)
  - [Complex Type: \*\*PricingChangeNotice\*\*](#)
  - [Complex Type: \*\*PricingChangeReason\*\*](#)
  - [Complex Type: \*\*RatePeriod\*\*](#)
  - [Complex Type: \*\*Repayment\*\*](#)
  - [Complex Type: \*\*RepaymentNotice\*\*](#)
  - [Complex Type: \*\*RolloverNotice\*\*](#)
  - [Model Group: \*\*FacilityNoticeDetails.model\*\*](#)
  - [Model Group: \*\*InterestPaymentDetails.model\*\*](#)
- [Legend](#)
- [Glossary](#)

## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 2406 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li><a href="#">fpml-asset-4-7.xsd</a></li><li><a href="#">fpml-msg-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 2406 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-asset-4-7.xsd" />
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  ...
</xsd:schema>
```

## Global Definitions

### Complex Type: **BorrowingOptionType**

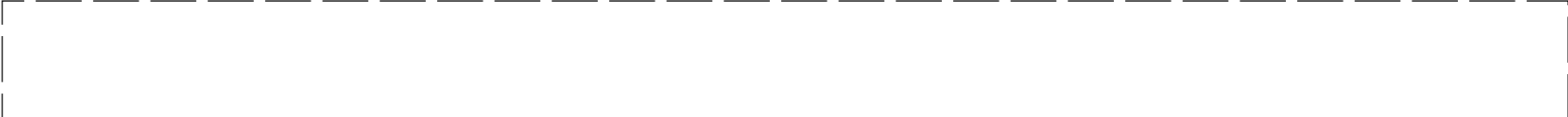
Super-types:	<a href="#">Scheme</a> < <b>BorrowingOptionType</b> (by extension)
Sub-types:	None

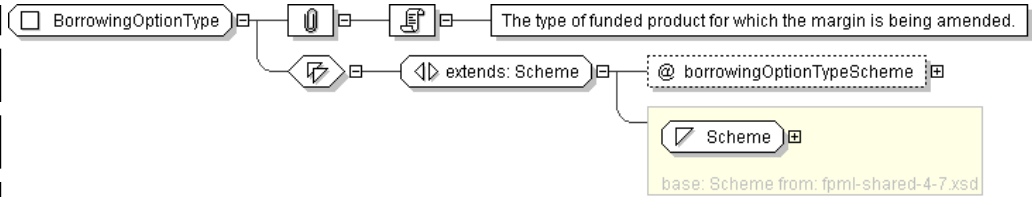
Name	BorrowingOptionType
Used by (from the same schema document)	Complex Type <a href="#">MarginRateChange</a>
Abstract	no
Documentation	The type of funded product for which the margin is being amended.

### XML Instance Representation

```
<...
  borrowingOptionTypeScheme=" xsd:anyURI [1]">
    Scheme
  </...>
```

### Diagram





Schema Component Representation

```
<xsd:complexType name="BorrowingOptionType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="borrowingOptionTypeScheme" type=" xsd:anyURI " use="required"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: DealSummary

Super-types:	<a href="#">IdentifiedAsset</a> < DealSummary (by extension)
Sub-types:	None
Name	DealSummary
Used by (from the same schema document)	Model Group <a href="#">FacilityNoticeDetails.model</a>
Abstract	no
Documentation	The reference to an agreement entered into between the borrower, the lenders, the agent, and other financial parties that describes the terms and conditions of the loan being made to the borrower and the obligations and requirements for the borrower, its related entities (if any), and the lenders. List of Ids should include at least CUSIP (if exists) and system Id of the system that generates the notice.

XML Instance Representation

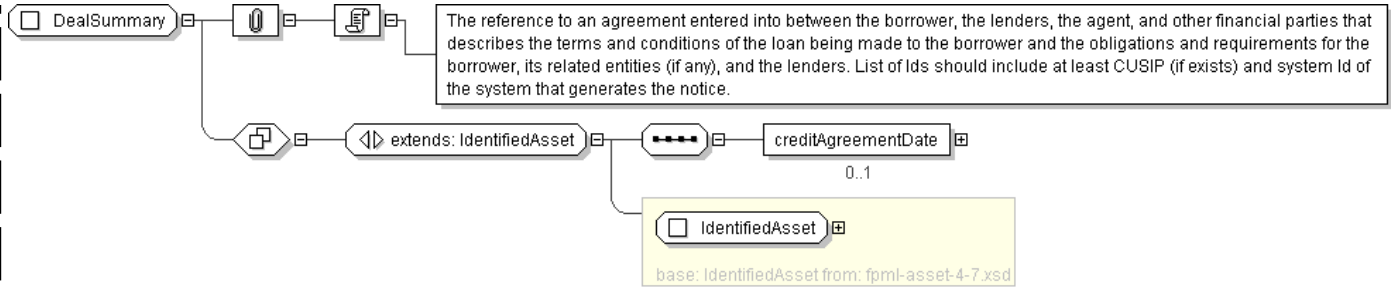
```
<...
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

  <creditAgreementDate> xsd:date </creditAgreementDate> [0..1]
  'The credit agreement date is the closing date (the date where the agreement has been signed) for the loans in the credit agreement. Funding of the facilities occurs on (or sometimes a little after) the Credit Agreement date.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DealSummary">
  <xsd:complexContent>
    <xsd:extension base=" IdentifiedAsset " >
      <xsd:sequence>
        <xsd:element name="creditAgreementDate" type=" xsd:date " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: DrawdownNotice

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">LoanContractNotice</a> (by extension) < <b>DrawdownNotice</b> (by extension)
Sub-types:	None

Name	DrawdownNotice
Abstract	no
Documentation	The notification from the agent bank to lender that loan contract is requested by the borrower. A loan contract notice will be created by the agent bank for each of the lenders

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <noticeDate> xsd:date </noticeDate> [1]
  'The date on which the notice was generated.'
```

<eventId> [EventId](#) </eventId> [0..1]

'The identifier that defines the business event which requires the creation of a notice.'

<agentBankPartyReference> [PartyReference](#) </agentBankPartyReference> [0..1]

'A reference to the agent bank for the given deal.'

<borrowerPartyReference> [PartyReference](#) </borrowerPartyReference> [0..1]

'A reference to the borrower against the associated loan contract(s).'

<lenderPartyReference> [PartyReference](#) </lenderPartyReference> [0..1]

'A reference to the lender(s) associated with the associated loan contract(s).'

<dealSummary> [DealSummary](#) </dealSummary> [1]

'A data structure which contains the identifying characteristics of the given deal.'

<facilitySummary> [FacilitySummary](#) </facilitySummary> [1]

'A data structure which contains the identifying characteristics of the given facility.'

<facilityCommitmentPosition> [FacilityCommitmentPosition](#) </facilityCommitmentPosition> [0..1]

'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender\'s viewpoint as of the date of the associated notice.'

<exceptionFlag> [xsd:boolean](#) </exceptionFlag> [0..1]

'A flag which can be set by the message sender in order to signify an exceptional business event.'

<comments> [xsd:string](#) </comments> [0..1]

'A free-form, manually entered field which will be used by users directly for additional information.'

Start [Choice](#) [1]

'The sender may choose to either transmit the full or partial loan contract details.'

<loanContract> [LoanContract](#) </loanContract> [1]

'A core structure describing a loan contract between borrower and lenders forming part or all of the credit line offered by a facility structure within a deal.'

<loanContractSummary> [LoanContractSummary](#) </loanContractSummary> [1]

'A basic set of fields used to uniquely identify the loan contract.'

End Choice

<drawdownEventType> [DrawdownEventTypeEnum](#) </drawdownEventType> [0..1]

'An enumeration that describes whether this message is a drawdown or a rate set notification. The same message structure is used for both, with some business validation differences.'

<conditionsPrecedentType> [ConditionsPrecedentEnum](#) </conditionsPrecedentType> [0..1]

'An enumeration which describes whether the condition precent have been met, not met or been waived. Please note: this field in not required since conditions precedent may not be applicable in certain scenarios.'

<drawdownPayment> [DrawdownPayment](#) </drawdownPayment> [1]

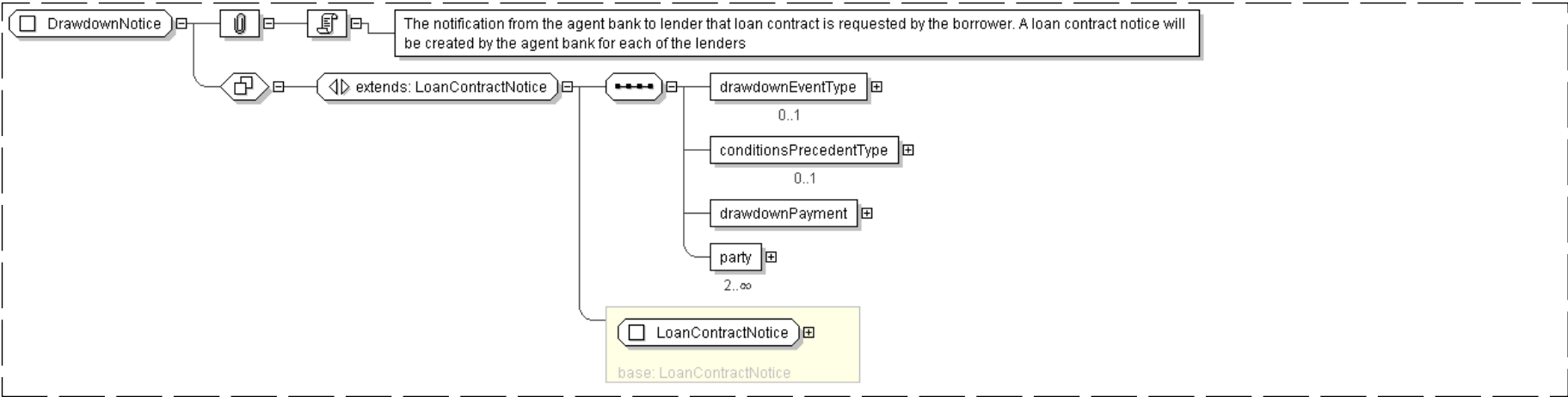
'The lender\'s portion of the drawdown payment.'

<party> [Party](#) </party> [2..\*]

'The parties involved with the associated transaction.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="DrawdownNotice">
  <xsd:complexContent>
    <xsd:extension base="LoanContractNotice" />
    <xsd:sequence>
      <xsd:element name="drawdownEventType" type="DrawdownEventTypeEnum" minOccurs="0"/>
      <xsd:element name="conditionsPrecedentType" type="ConditionsPrecedentEnum" minOccurs="0"/>
      <xsd:element name="drawdownPayment" type="DrawdownPayment" />
      <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

[top](#)

Complex Type: DrawdownPayment

Super-types:	<a href="#">PaymentBase</a> < <b>DrawdownPayment</b> (by extension)
Sub-types:	None

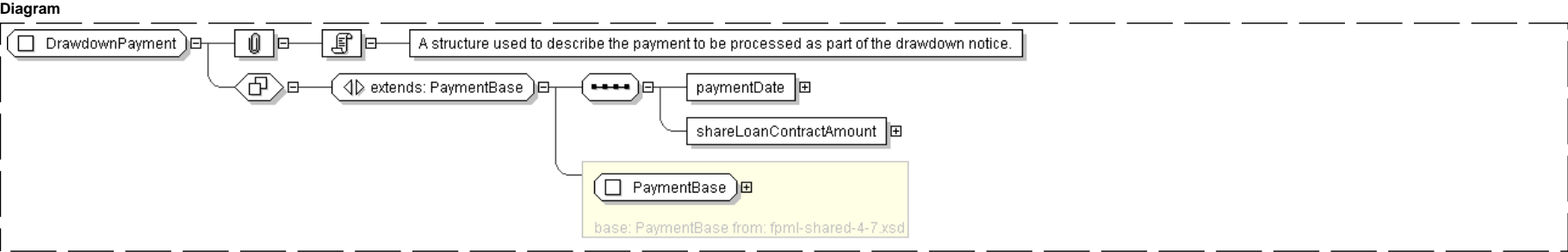
Name	DrawdownPayment
Used by (from the same schema document)	Complex Type <a href="#">DrawdownNotice</a> , Complex Type <a href="#">NewLoanContracts</a>
Abstract	no
Documentation	A structure used to describe the payment to be processed as part of the drawdown notice.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <paymentDate xsd:date /> [1]
  'The date on which the principal payment is made by the lender to the agent bank. This is
  an actual (adjusted) date. Usually defaults to the effective date of the loan contract.'

  <shareLoanContractAmount Money /> [1]
  'The amount of principal allocated to the lender for the given drawdown request. This is
  the same as the payment that must be made by the lender to satisfy the drawdown request.'

</...>
```



Schema Component Representation

```
<xsd:complexType name="DrawdownPayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBase">
      <xsd:sequence>
        <xsd:element name="paymentDate" type="xsd:date"/>
        <xsd:element name="shareLoanContractAmount" type="Money"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: FacilityCommitmentPosition

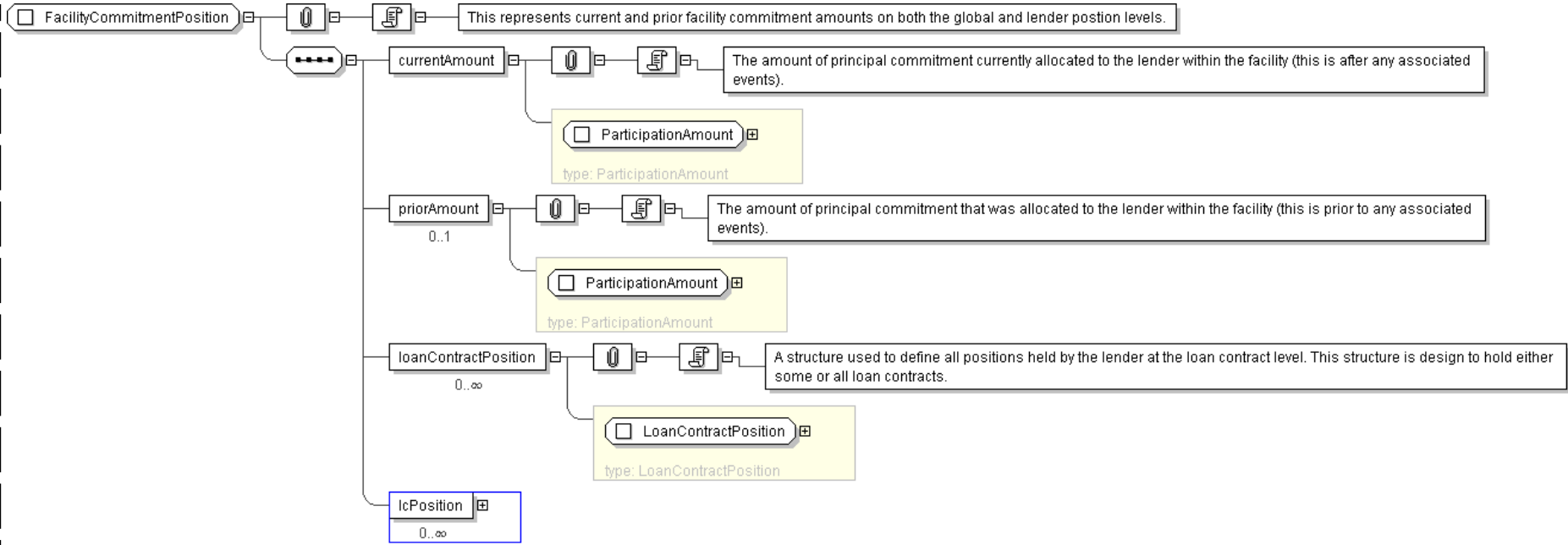
Super-types:	None
Sub-types:	None
Name	FacilityCommitmentPosition
Used by (from the same schema document)	Model Group <a href="#">FacilityNoticeDetails.model</a>
Abstract	no
Documentation	This represents current and prior facility commitment amounts on both the global and lender postion levels.

XML Instance Representation

```
<...>
  <currentAmount> ParticipationAmount </currentAmount> [1]
  'The amount of principal commitment currently allocated to the lender within the facility
  (this is after any associated events).'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="FacilityCommitmentPosition">
  <xsd:sequence>
    <xsd:element name="currentAmount" type=" ParticipationAmount " />
    <xsd:element name="priorAmount" type=" ParticipationAmount " minOccurs="0"/>
    <xsd:element name="loanContractPosition" type=" LoanContractPosition "
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="lcPosition" type=" LcPosition " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FacilityNotice**

Super-types:	<a href="#">NotificationMessage</a> < <b>FacilityNotice</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">LcAmendmentNotice</a> (by extension)</li><li><a href="#">LcBalanceNotice</a> (by extension)</li><li><a href="#">LcIssuanceNotice</a> (by extension)</li><li><a href="#">LcTerminationNotice</a> (by extension)</li><li><a href="#">OneOffFeeNotice</a> (by extension)</li><li><a href="#">OnGoingFeeNotice</a> (by extension)</li><li><a href="#">PricingChangeNotice</a> (by extension)</li><li><a href="#">RepaymentNotice</a> (by extension)</li><li><a href="#">RolloverNotice</a> (by extension)</li></ul>

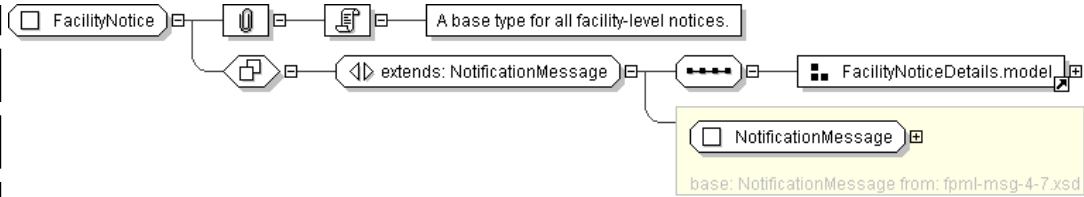
Name	FacilityNotice
Abstract	yes
Documentation	A base type for all facility-level notices.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
```

```
| 7'}) [1]
|
| 'Indicate which version of the FpML Schema an FpML message adheres to.'
|
| "
| expectedBuild=" xsd:positiveInteger [0..1]
|
| 'This optional attribute can be supplied by a message creator in an FpML instance to
| specify which build number of the schema was used to define the message when it was generated.'
|
| "
| actualBuild="5 [0..1]
|
| 'The specific build number of this schema version. This attribute is not included in
| an instance document. Instead, it is supplied by the XML parser when the document is
| validated against the FpML schema and indicates the build number of the schema file. Every
| time FpML publishes a change to the schema, validation rules, or examples within a version
| (e.g., version 4.2) the actual build number is incremented. If no changes have been
| made between releases within a version (i.e. from Trial Recommendation to Recommendation)
| the actual build number stays the same.'
|
| ">
|
| <header> NotificationMessageHeader </header> [1]
| <validation> Validation </validation> [0..*]
| <noticeDate> xsd:date </noticeDate> [1]
|
| 'The date on which the notice was generated.'
|
|
| <eventId> EventId </eventId> [0..1]
|
| 'The identifier that defines the business event which requires the creation of a notice.'
|
|
| <agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1]
|
| 'A reference to the agent bank for the given deal.'
|
|
| <borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1]
|
| 'A reference to the borrower against the associated loan contract(s).'
|
|
| <lenderPartyReference> PartyReference </lenderPartyReference> [0..1]
|
| 'A reference to the lender(s) associated with the associated loan contract(s).'
|
|
| <dealSummary> DealSummary </dealSummary> [1]
|
| 'A data structure which contains the identifying characteristics of the given deal.'
|
|
| <facilitySummary> FacilitySummary </facilitySummary> [1]
|
| 'A data structure which contains the identifying characteristics of the given facility.'
|
|
| <facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]
|
| 'A structure which contains the position being held by the lender on both the facility and
| loan contract levels. This position information is from the message sender\'s viewpoint as
| of the date of the associated notice.'
|
|
| <exceptionFlag> xsd:boolean </exceptionFlag> [0..1]
|
| 'A flag which can be set by the message sender in order to signify an exceptional
| business event.'
|
|
| <comments> xsd:string </comments> [0..1]
|
| 'A free-form, manually entered field which will be used by users directly for
| additional information.'
|
|
| </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FacilityNotice" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:group ref=" FacilityNoticeDetails.model "/">
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
```

[top](#)

Complex Type: **FacilityRepayment**

Super-types:	None
Sub-types:	None
Name	FacilityRepayment
Used by (from the same schema document)	Complex Type <a href="#">Repayment</a>
Abstract	no
Documentation	Representation of a repayment made by the borrower against a single facility.

XML Instance Representation

```
<...>
  <refusalAllowed> xsd:boolean </refusalAllowed> [1]
  'Defines whether the lender has an option to accept or deny the payment.'

  <adjustsCommitment> xsd:boolean </adjustsCommitment> [1]
  'Defines whether the principal repayment will adjust the commitment level of the
  associated facility.'

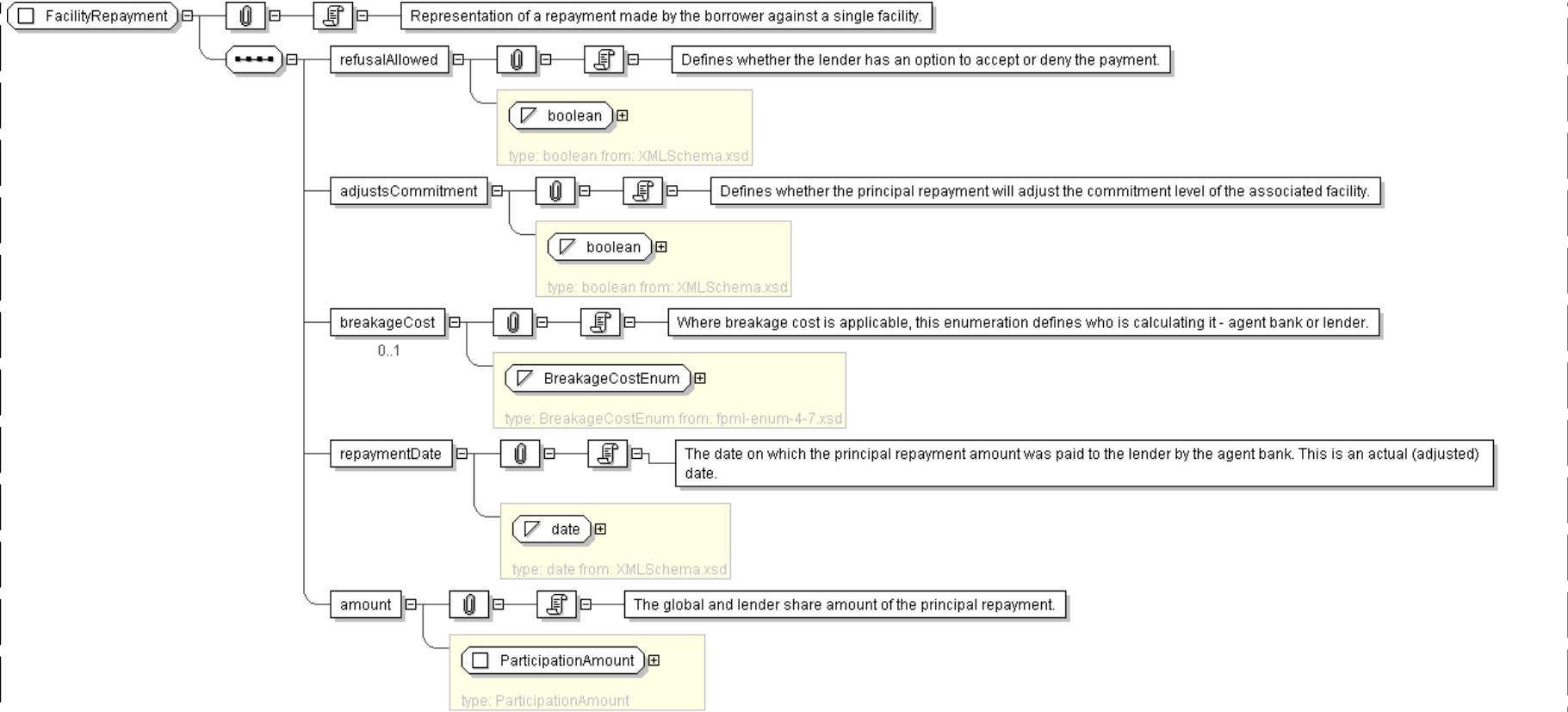
  <breakageCost> BreakageCostEnum </breakageCost> [0..1]
  'Where breakage cost is applicable, this enumeration defines who is calculating it - agent
  bank or lender.'

  <repaymentDate> xsd:date </repaymentDate> [1]
  'The date on which the principal repayment amount was paid to the lender by the agent
  bank. This is an actual (adjusted) date.'

  <amount> ParticipationAmount </amount> [1]
  'The global and lender share amount of the principal repayment.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FacilityRepayment">
  <xsd:sequence>
    <xsd:element name="refusalAllowed" type="xsd:boolean" />
    <xsd:element name="adjustsCommitment" type="xsd:boolean" />
    <xsd:element name="breakageCost" type="BreakageCostEnum" minOccurs="0"/>
    <xsd:element name="repaymentDate" type="xsd:date" />
    <xsd:element name="amount" type="ParticipationAmount" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FacilitySummary**

Super-types:	<a href="#">IdentifiedAsset</a> < <b>FacilitySummary</b> (by extension)
Sub-types:	None
Name	FacilitySummary
Used by (from the same schema document)	Model Group <a href="#">FacilityNoticeDetails.model</a>
Abstract	no
Documentation	A reference to a single credit limit within a deal (also referred to in the secondary markets as a 'tranche'). The list of ids should include the value of the id and a system reference to denote which internal/external source created the id.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <instrumentId> InstrumentId </instrumentId> [1..*]
  'Identification of the underlying asset, using public and/or private identifiers.'

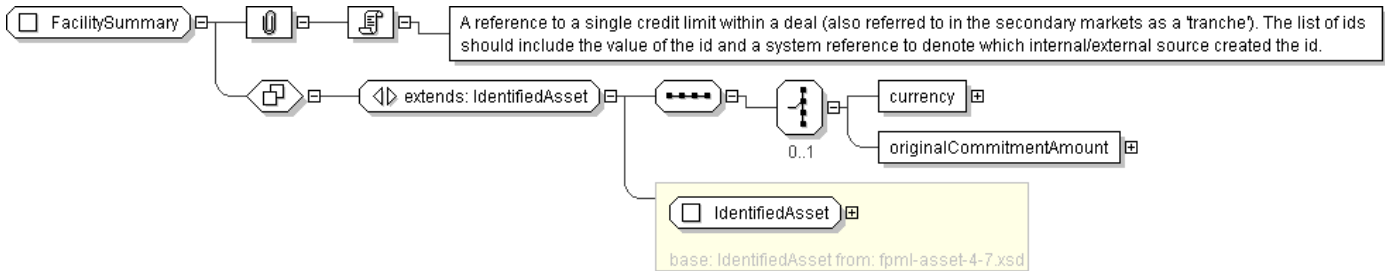
  <description> xsd:string </description> [0..1]
  'Long name of the underlying asset.'

Start Choice [0..1]
  <currency> Currency </currency> [1]
  'Facility denomination currency.'

  <originalCommitmentAmount> Money </originalCommitmentAmount> [1]
  'Original global commitment amount of the facility.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FacilitySummary">
  <xsd:complexContent>
    <xsd:extension base=" IdentifiedAsset " />
    <xsd:sequence>
      <xsd:choice minOccurs="0">
        <xsd:element name="currency" type=" Currency " />
        <xsd:element name="originalCommitmentAmount" type=" Money " />
      </xsd:choice>
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: FeeAccrualPeriod

Super-types:	None
Sub-types:	None
Name	FeeAccrualPeriod
Used by (from the same schema document)	Complex Type <a href="#">FeeAccrualSchedule</a>
Abstract	no
Documentation	The period for within a fee accrual calculation where the fee rate and underlying position amount (commitment, utilization or unutilized) is constant.

XML Instance Representation

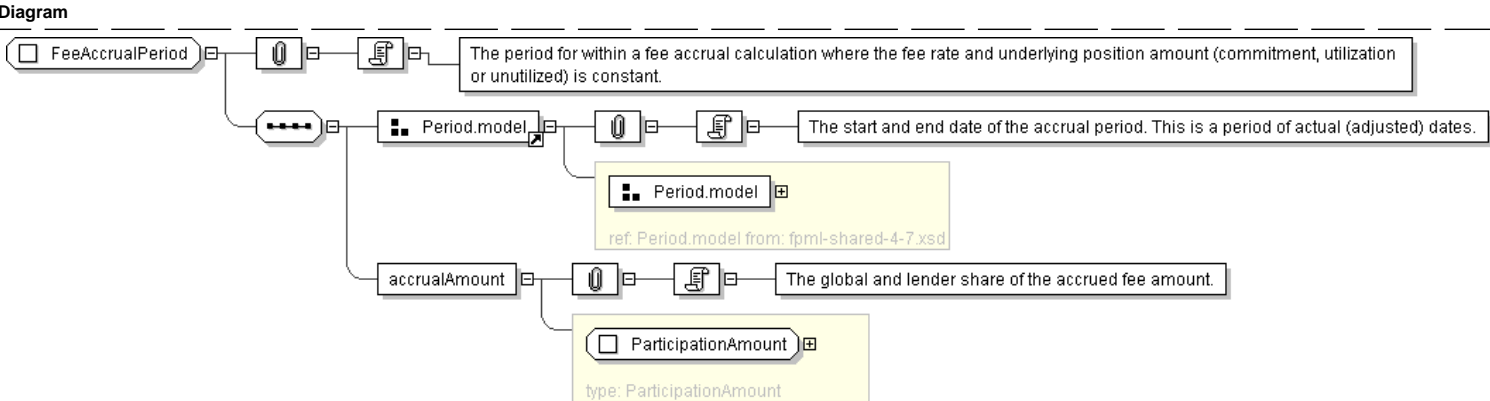
```
<...>
```

```
<startDate> xsd:date </startDate> [1]
'Date on which this period begins.'

<endDate> xsd:date </endDate> [1]
'Date on which this period ends.'

<accrualAmount> ParticipationAmount </accrualAmount> [1]
'The global and lender share of the accrued fee amount.'
```

</...>



Schema Component Representation

```
<xsd:complexType name="FeeAccrualPeriod">
  <xsd:sequence>
    <xsd:group ref="Period.model" />
    <xsd:element name="accrualAmount" type="ParticipationAmount" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: FeeAccrualSchedule

Super-types:	None
Sub-types:	None
Name	FeeAccrualSchedule
Used by (from the same schema document)	Complex Type <a href="#">OnGoingFeeNotice</a>
Abstract	no
Documentation	The details of the underlying elements that effect the calculation of a fee accrual.

XML Instance Representation

```
<...>
Start Choice [1]
<lenderCommitmentPeriod> LenderPositionPeriod </lenderCommitmentPeriod> [1..*]
'The minimal period within the entire fee period where both the lender and global commitment amounts remain constant.'
```

<lenderUtilizationPeriod> LenderPositionPeriod </lenderUtilizationPeriod> [1..\*]

'The minimal period within the entire fee period where both the lender and global utilization amounts remain constant..'

```
<lenderUnutilizedPeriod> LenderPositionPeriod </lenderUnutilizedPeriod> [1..*]
```

'The minimal period within the entire fee period where both lender and global unutilized amounts remain constant.'

```
<lcBalancePeriod> LenderPositionPeriod </lcBalancePeriod> [1..*]
```

'The minimal period where both lender and global LC amounts remain constant.'

End Choice

```
<feeRatePeriod> RatePeriod </feeRatePeriod> [1..*]
```

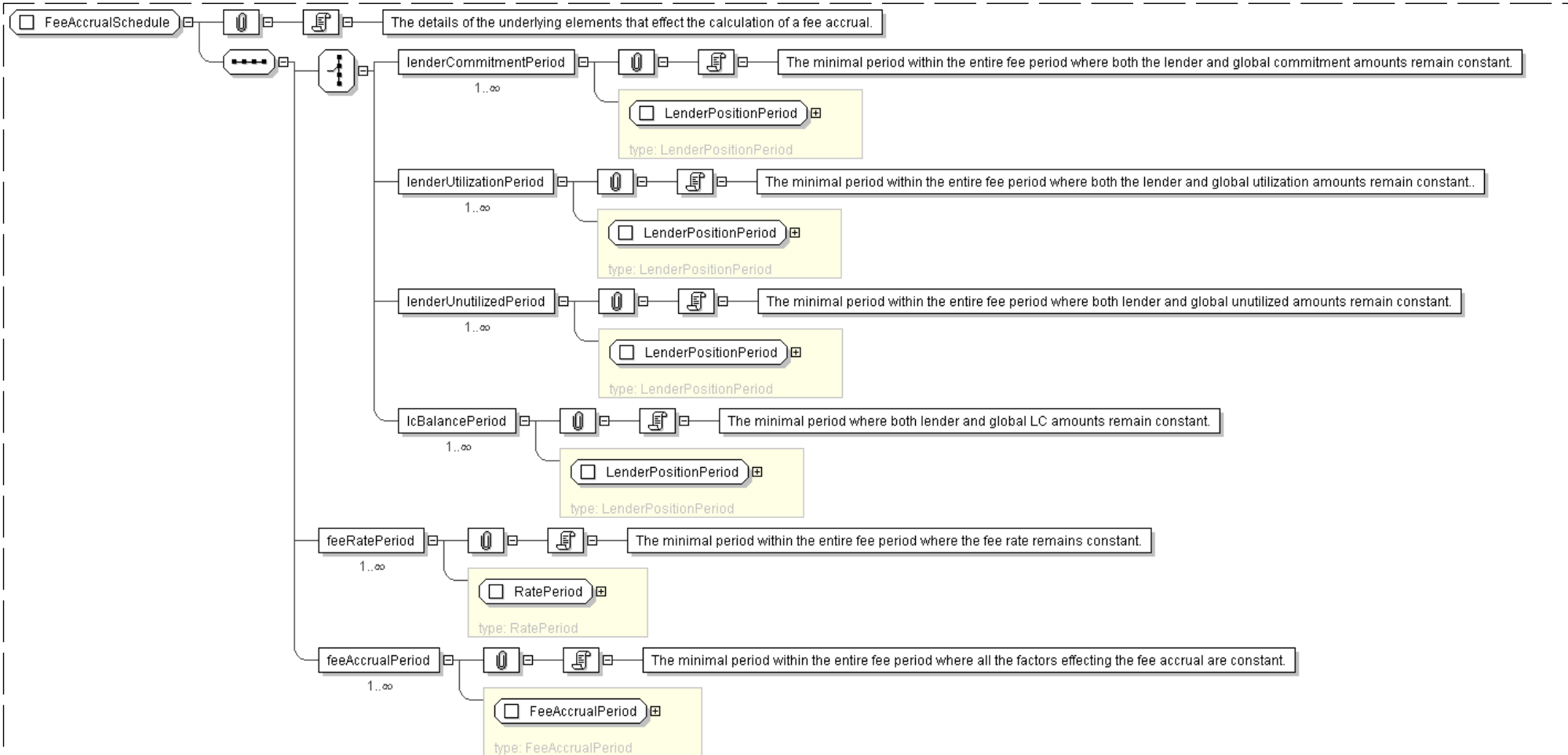
'The minimal period within the entire fee period where the fee rate remains constant.'

```
<feeAccrualPeriod> FeeAccrualPeriod </feeAccrualPeriod> [1..*]
```

'The minimal period within the entire fee period where all the factors effecting the fee accrual are constant.'

</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="FeeAccrualSchedule">
  <xsd:sequence>
```

```
<xsd:choice>
  <xsd:element name="lenderCommitmentPeriod" type=" LenderPositionPeriod " maxOccurs="unbounded" />
  <xsd:element name="lenderUtilizationPeriod" type=" LenderPositionPeriod "
    maxOccurs="unbounded" />
  <xsd:element name="lenderUnutilizedPeriod" type=" LenderPositionPeriod " maxOccurs="unbounded" />
  <xsd:element name="lcBalancePeriod" type=" LenderPositionPeriod " maxOccurs="unbounded" />
</xsd:choice>
<xsd:element name="feeRatePeriod" type=" RatePeriod " maxOccurs="unbounded" />
<xsd:element name="feeAccrualPeriod" type=" FeeAccrualPeriod " maxOccurs="unbounded" />
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FxTerms**

Super-types:	None
Sub-types:	None

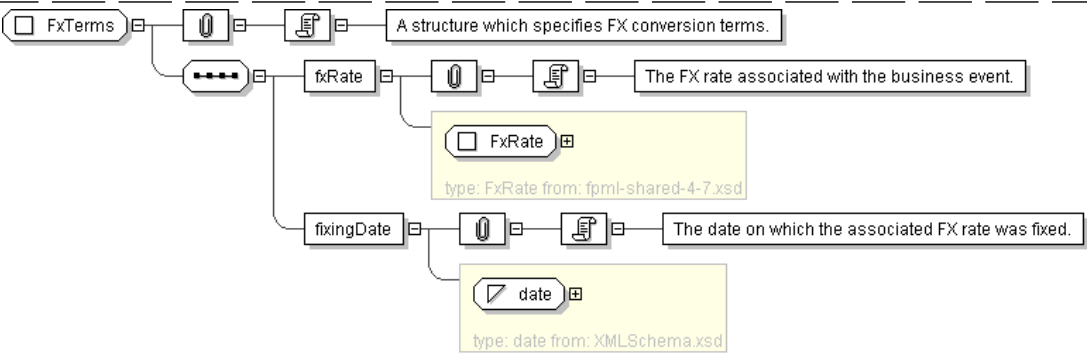
Name	FxTerms
Used by (from the same schema document)	Complex Type <a href="#">FxTermsSchedule</a> , Complex Type <a href="#">LetterOfCredit</a>
Abstract	no
Documentation	A structure which specifies FX conversion terms.

XML Instance Representation

```
<...>
  <fxRate> FxRate </fxRate> [1]
  'The FX rate associated with the business event.'

  <fixingDate> xsd:date </fixingDate> [1]
  'The date on which the associated FX rate was fixed.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxTerms">
  <xsd:sequence>
    <xsd:element name="fxRate" type=" FxRate " />
    <xsd:element name="fixingDate" type=" xsd:date " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)



Complex Type: **FxTermsSchedule**

Super-types:	None
Sub-types:	None
Name	FxTermsSchedule
Used by (from the same schema document)	Complex Type <a href="#">LoanContract</a>
Abstract	no
Documentation	A structure which specifies many FX conversion terms, based on a schedule.

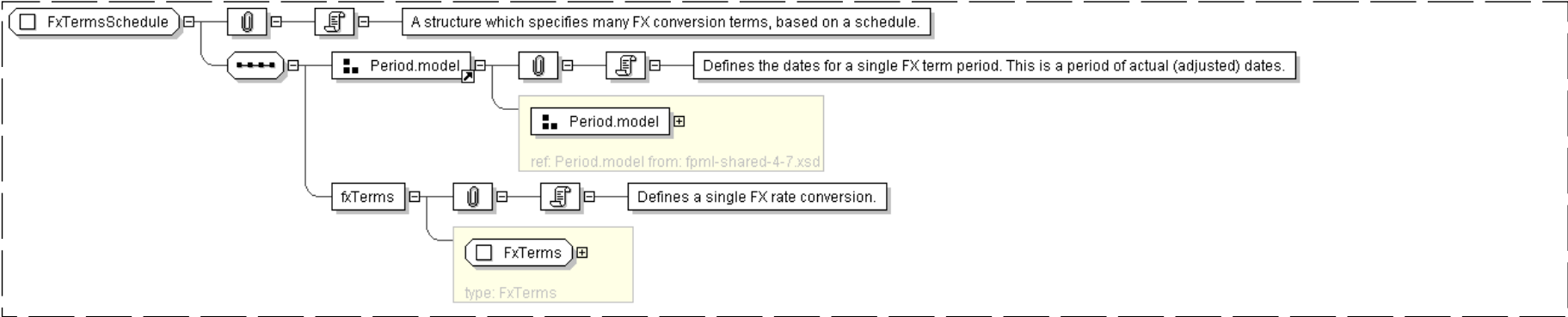
XML Instance Representation

```
<...>
  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'

  <endDate> xsd:date </endDate> [1]
  'Date on which this period ends.'

  <fxTerms> FxTerms </fxTerms> [1]
  'Defines a single FX rate conversion.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxTermsSchedule">
  <xsd:sequence>
    <xsd:group ref="Period.model" />
    <xsd:element name="fxTerms" type="FxTerms" />
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **InterestAccrualPeriod**

Super-types:	None
Sub-types:	None
Name	InterestAccrualPeriod
Used by (from the same schema document)	Complex Type <a href="#">InterestAccrualSchedule</a>

Abstract	no
Documentation	A period defined as having a constant interest rate within which the lender maintains a constant loan contract position.

XML Instance Representation

```
<...>
  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'

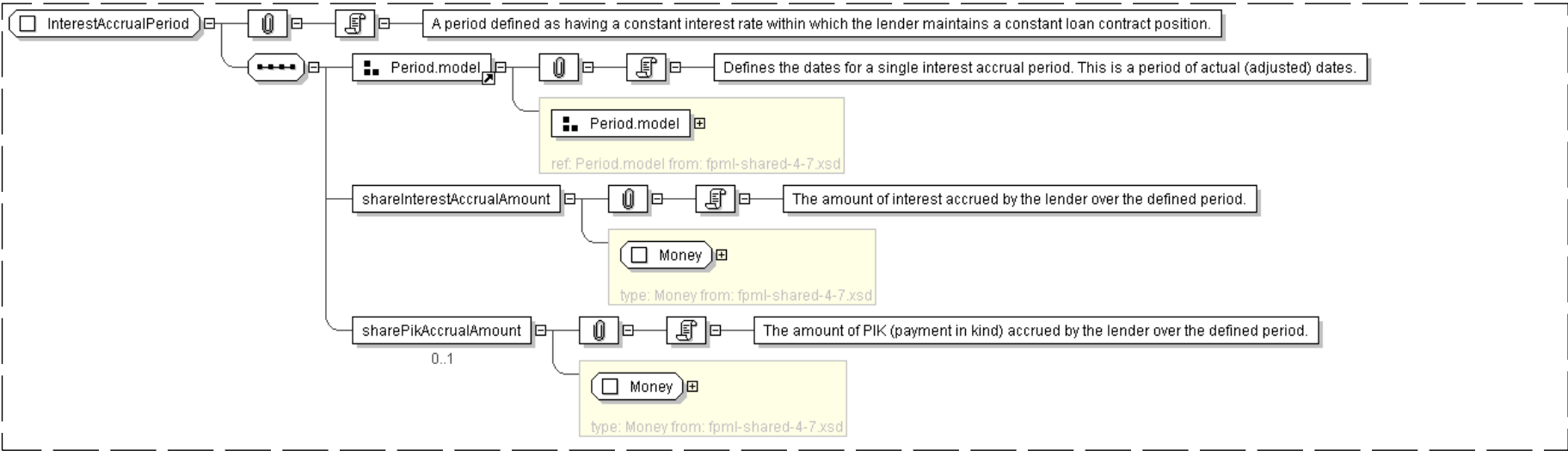
  <endDate> xsd:date </endDate> [1]
  'Date on which this period ends.'

  <shareInterestAccrualAmount> Money </shareInterestAccrualAmount> [1]
  'The amount of interest accrued by the lender over the defined period.'

  <sharePikAccrualAmount> Money </sharePikAccrualAmount> [0..1]
  'The amount of PIK (payment in kind) accrued by the lender over the defined period.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestAccrualPeriod">
  <xsd:sequence>
    <xsd:group ref=" Period.model " />
    <xsd:element name="shareInterestAccrualAmount" type=" Money " />
    <xsd:element name="sharePikAccrualAmount" type=" Money " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: InterestAccrualSchedule

Super-types:	None
Sub-types:	None

Name	InterestAccrualSchedule
------	-------------------------

Used by (from the same schema document)	Model Group <a href="#">InterestPaymentDetails.model</a>
Abstract	no
Documentation	A schedule that incorporates all sub-periods of an interest accrual calculation.

XML Instance Representation

```
<...>
<interestRatePeriod> InterestRatePeriod </interestRatePeriod> [1..*]
'A period defined as having a constant interest rate.'

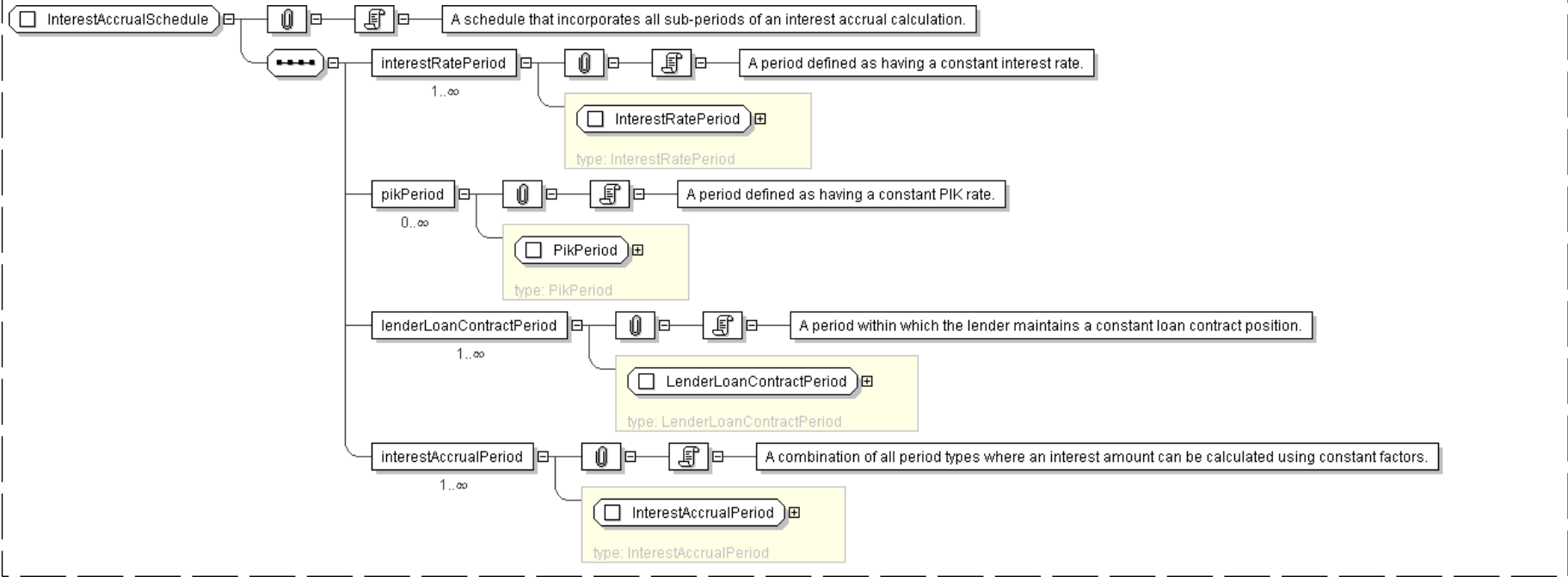
<pikPeriod> PikPeriod </pikPeriod> [0..*]
'A period defined as having a constant PIK rate.'

<lenderLoanContractPeriod> LenderLoanContractPeriod </lenderLoanContractPeriod> [1..*]
'A period within which the lender maintains a constant loan contract position.'

<interestAccrualPeriod> InterestAccrualPeriod </interestAccrualPeriod> [1..*]
'A combination of all period types where an interest amount can be calculated using
constant factors.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestAccrualSchedule">
  <xsd:sequence>
    <xsd:element name="interestRatePeriod" type=" InterestRatePeriod " maxOccurs="unbounded"/>
    <xsd:element name="pikPeriod" type=" PikPeriod " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="lenderLoanContractPeriod" type=" LenderLoanContractPeriod " maxOccurs="unbounded"/>
    <xsd:element name="interestAccrualPeriod" type=" InterestAccrualPeriod " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

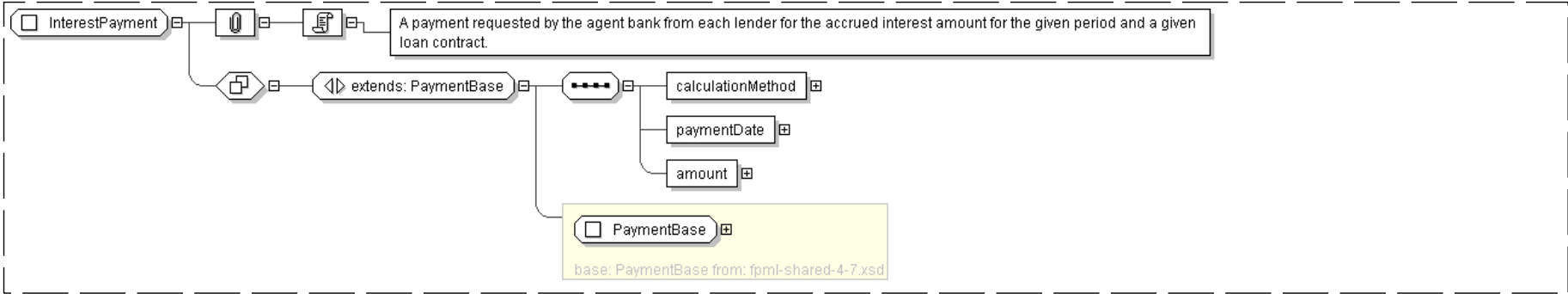
Complex Type: InterestPayment

Super-types:	<a href="#">PaymentBase</a> < <b>InterestPayment</b> (by extension)
Sub-types:	None
Name	InterestPayment
Used by (from the same schema document)	Model Group <a href="#">InterestPaymentDetails.model</a>
Abstract	no
Documentation	A payment requested by the agent bank from each lender for the accrued interest amount for the given period and a given loan contract.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <calculationMethod> InterestCalculationMethodEnum </calculationMethod> [1]  
  'Defines the way in which the agent bank is allocating interest payments - can be (i) pro-  
  rata at the time of the interest payment or (ii) based on the loan contract share  
  throughout the interest period (which is the preferred method).'  
  <paymentDate> xsd:date </paymentDate> [1]  
  'The date on which interest was paid to the lender by the agent bank. This is an  
  actual (adjusted) date.'  
  
  <amount> ParticipationAmount </amount> [1]  
  'The amount of interest paid by the borrower to the agent bank and share paid to the lender.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestPayment">  
  <xsd:complexContent>  
    <xsd:extension base=" PaymentBase ">  
      <xsd:sequence>  
        <xsd:element name="calculationMethod" type=" InterestCalculationMethodEnum "/>  
        <xsd:element name="paymentDate" type=" xsd:date "/>  
        <xsd:element name="amount" type=" ParticipationAmount "/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **InterestPaymentNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">LoanContractNotice</a> (by extension) < <b>InterestPaymentNotice</b> (by extension)
Sub-types:	None
Name	InterestPaymentNotice
Abstract	no
Documentation	A notice defining the payment requested by the agent bank from each lender for given interest accrual period for a given loan contract.

XML Instance Representation

<...
version=" xsd:token (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
<header> <a href="#">NotificationMessageHeader</a> </header> [1]
<validation> <a href="#">Validation</a> </validation> [0..*]
<noticeDate> xsd:date </noticeDate> [1]
'The date on which the notice was generated.'
<eventId> <a href="#">EventId</a> </eventId> [0..1]
'The identifier that defines the business event which requires the creation of a notice.'
<agentBankPartyReference> <a href="#">PartyReference</a> </agentBankPartyReference> [0..1]
'A reference to the agent bank for the given deal.'
<borrowerPartyReference> <a href="#">PartyReference</a> </borrowerPartyReference> [0..1]
'A reference to the borrower against the associated loan contract(s).'
<lenderPartyReference> <a href="#">PartyReference</a> </lenderPartyReference> [0..1]
'A reference to the lender(s) associated with the associated loan contract(s).'
<dealSummary> <a href="#">DealSummary</a> </dealSummary> [1]
'A data structure which contains the identifying characteristics of the given deal.'
<facilitySummary> <a href="#">FacilitySummary</a> </facilitySummary> [1]
'A data structure which contains the identifying characteristics of the given facility.'
<facilityCommitmentPosition> <a href="#">FacilityCommitmentPosition</a> </facilityCommitmentPosition> [0..1]
'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender\'s viewpoint as of the date of the associated notice.'
<exceptionFlag> xsd:boolean </exceptionFlag> [0..1]
'A flag which can be set by the message sender in order to signify an exceptional

```
business event.'
```

```
<comments> xsd:string </comments> [0..1]
```

```
'A free-form, manually entered field which will be used by users directly for
additional information.'
```

Start Choice [1]

```
'The sender may choose to either transmit the full or partial loan contract details.'
```

```
<loanContract> LoanContract </loanContract> [1]
```

```
'A core structure describing a loan contract between borrower and lenders forming part or
all of the credit line offered by a facility structure within a deal.'
```

```
<loanContractSummary> LoanContractSummary </loanContractSummary> [1]
```

```
'A basic set of fields used to uniquely identify the loan contract.'
```

End Choice

```
<interestPayment> InterestPayment </interestPayment> [1]
```

```
'Represents the total amount of interest paid by the borrower to the agent bank and the
share of it paid to the lender.'
```

```
<interestAccrualSchedule> InterestAccrualSchedule </interestAccrualSchedule> [1]
```

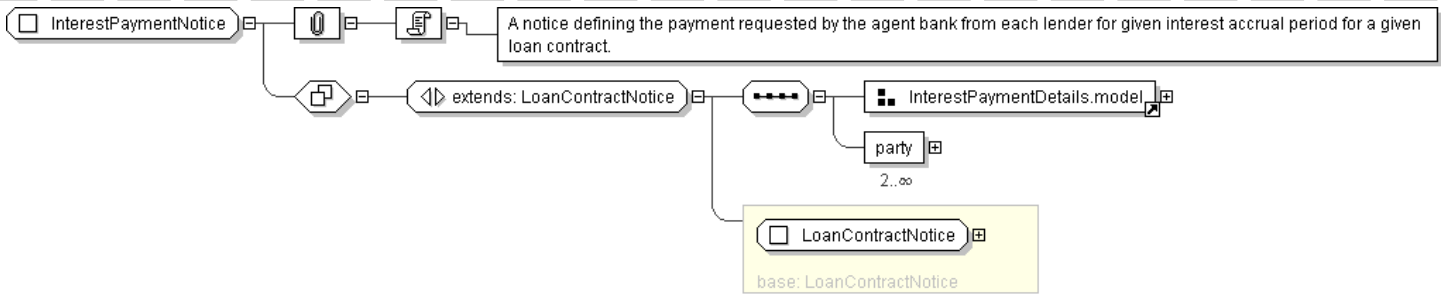
```
'A schedule that incorporates all sub-periods of an interest accrual calculation.'
```

```
<party> Party </party> [2..*]
```

```
'The parties involved with the associated transaction.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestPaymentNotice">
  <xsd:complexContent>
    <xsd:extension base=" LoanContractNotice " >
      <xsd:sequence>
        <xsd:group ref=" InterestPaymentDetails.model " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Super-types:	None
Sub-types:	None

Name	InterestRatePeriod
Used by (from the same schema document)	Complex Type <a href="#">InterestAccrualSchedule</a> , Complex Type <a href="#">LoanContract</a>
Abstract	no
Documentation	A full definition of the accrual characteristics of a loan contract. This structure defines both the underlying base rate as well as any additional margins and costs associated with the loan contract.

XML Instance Representation

```
<...>
  <rateFixingDate> xsd:date </rateFixingDate> [1]
  'The date on which the underlying interest rate is fixed. It is an actual (adjusted)
  date. Note: This should default to the effective date of the loan contract in the case of
  a PRIME base rate.'

  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'

  <endDate> xsd:date </endDate> [1]
  'Date on which this period ends.'

  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [0..1]
  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

  <interestRate> PositiveDecimal </interestRate> [0..1]
  'The actual interest rate, defined as a percentage.'

  <margin> xsd:decimal </margin> [0..1]
  'The margin as stated in the credit agreement.'

  <mandatoryCostRate> PositiveDecimal </mandatoryCostRate> [0..1]
  'Charged as an additional cost for select european deals.'

  <allInRate> PositiveDecimal </allInRate> [0..1]
  'The actual percentage rate charged to the borrower. (Interest Rate + Margin + MCR) = All
  In Rate.'

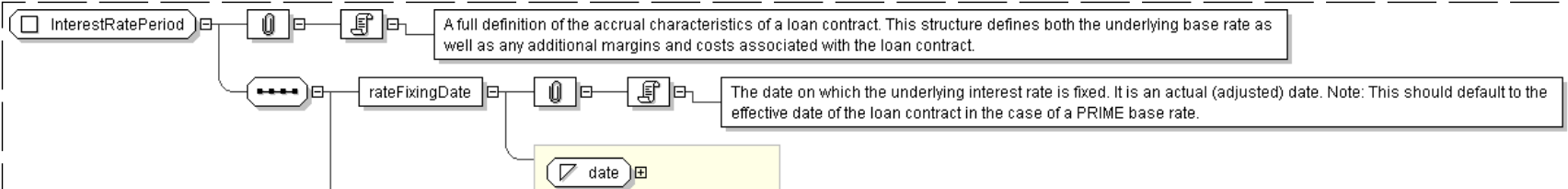
  <interestDayBasis> DayCountFraction </interestDayBasis> [0..1]
  'The day count basis for the interest rate period.'

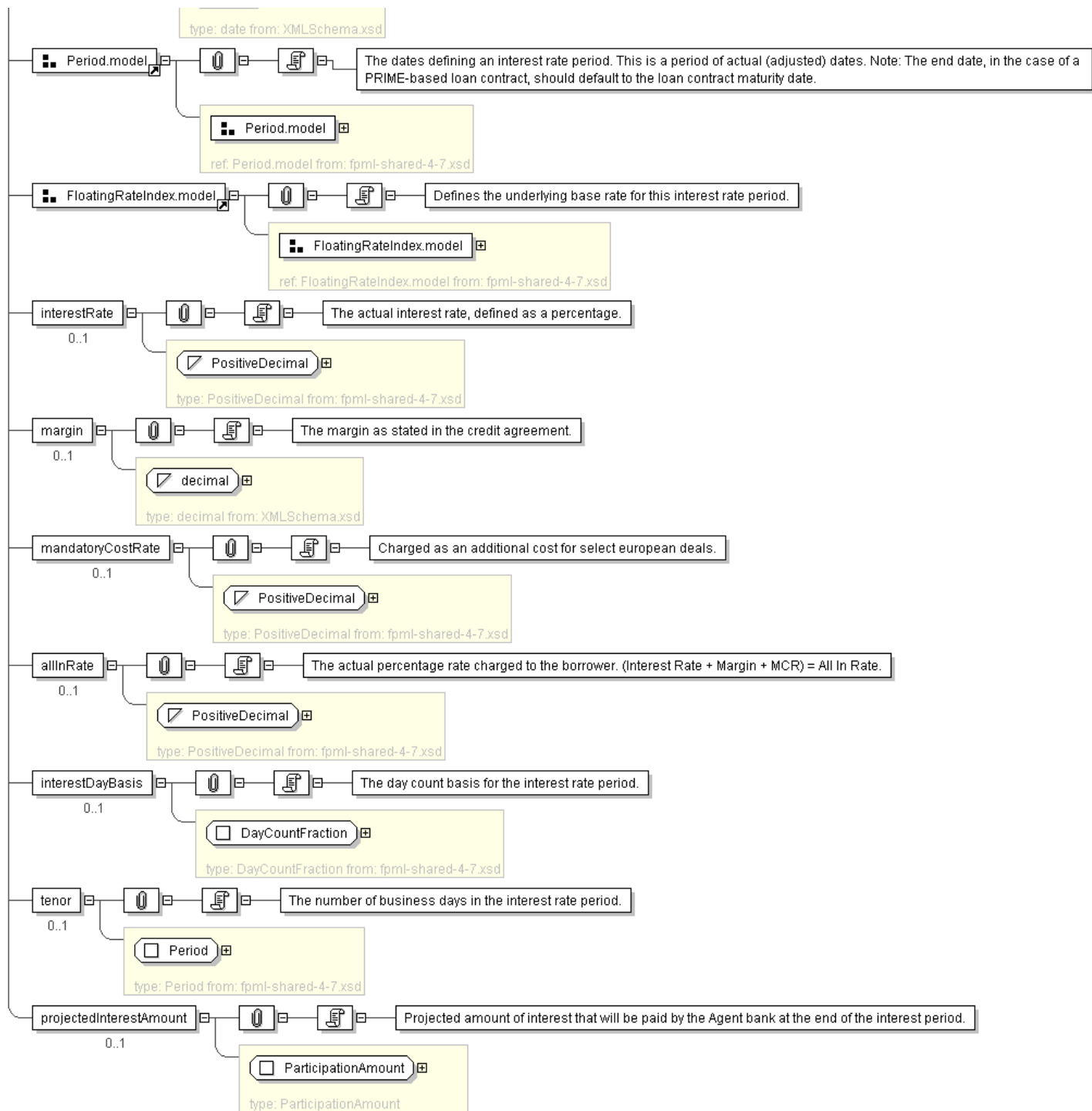
  <tenor> Period </tenor> [0..1]
  'The number of business days in the interest rate period.'

  <projectedInterestAmount> ParticipationAmount </projectedInterestAmount> [0..1]
  'Projected amount of interest that will be paid by the Agent bank at the end of the
  interest period.'

</...>
```

Diagram





## Schema Component Representation

```
<xsd:complexType name="InterestRatePeriod">
```



```
<xsd:sequence>
  <xsd:element name="rateFixingDate" type=" xsd:date " />
  <xsd:group ref=" Period.model " />
  <xsd:group ref=" FloatingRateIndex.model " />
  <xsd:element name="interestRate" type=" PositiveDecimal " minOccurs="0"/>
  <xsd:element name="margin" type=" xsd:decimal " minOccurs="0"/>
  <xsd:element name="mandatoryCostRate" type=" PositiveDecimal " minOccurs="0"/>
  <xsd:element name="allInRate" type=" PositiveDecimal " minOccurs="0"/>
  <xsd:element name="interestDayBasis" type=" DayCountFraction " minOccurs="0"/>
  <xsd:element name="tenor" type=" Period " minOccurs="0"/>
  <xsd:element name="projectedInterestAmount" type=" ParticipationAmount " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

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Complex Type: **LcAmendmentNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>LcAmendmentNotice</b> (by extension)
Sub-types:	None
Name	LcAmendmentNotice
Abstract	no
Documentation	Letter of Credit amendment notice.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <noticeDate> xsd:date </noticeDate> [1]
  'The date on which the notice was generated.'

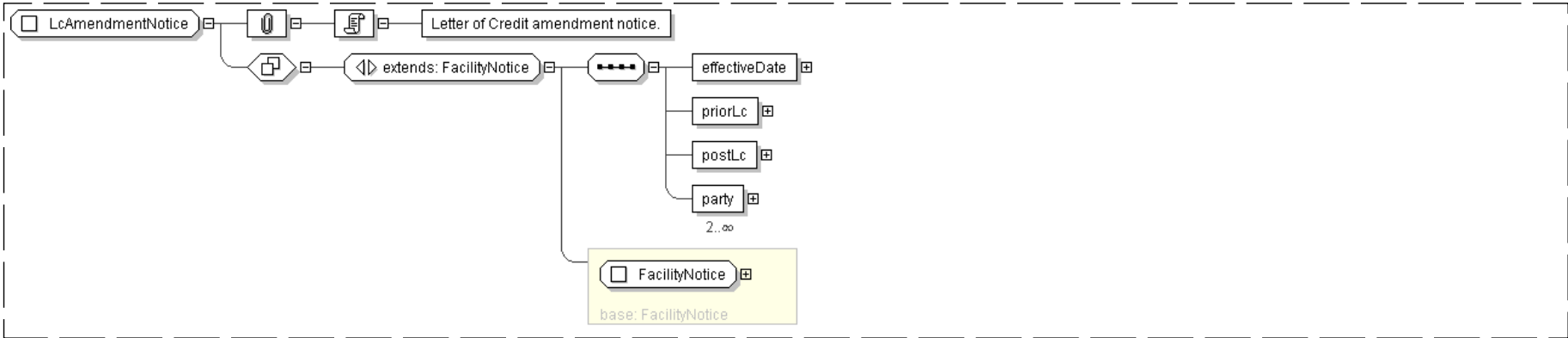
  <eventId> EventId </eventId> [0..1]
  'The identifier that defines the business event which requires the creation of a notice.'

  <agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1]
  'A reference to the agent bank for the given deal.'

  <borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1]
  'A reference to the borrower against the associated loan contract(s).'
```

<code>&lt;lenderPartyReference&gt; <a href="#">PartyReference</a> &lt;/lenderPartyReference&gt; [0..1]</code>
'A reference to the lender(s) associated with the associated loan contract(s).'
<code>&lt;dealSummary&gt; <a href="#">DealSummary</a> &lt;/dealSummary&gt; [1]</code>
'A data structure which contains the identifying characteristics of the given deal.'
<code>&lt;facilitySummary&gt; <a href="#">FacilitySummary</a> &lt;/facilitySummary&gt; [1]</code>
'A data structure which contains the identifying characteristics of the given facility.'
<code>&lt;facilityCommitmentPosition&gt; <a href="#">FacilityCommitmentPosition</a> &lt;/facilityCommitmentPosition&gt; [0..1]</code>
'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender's viewpoint as of the date of the associated notice.'
<code>&lt;exceptionFlag&gt; <a href="#">xsd:boolean</a> &lt;/exceptionFlag&gt; [0..1]</code>
'A flag which can be set by the message sender in order to signify an exceptional business event.'
<code>&lt;comments&gt; <a href="#">xsd:string</a> &lt;/comments&gt; [0..1]</code>
'A free-form, manually entered field which will be used by users directly for additional information.'
<code>&lt;effectiveDate&gt; <a href="#">xsd:date</a> &lt;/effectiveDate&gt; [1]</code>
'Effective date of the amendment.'
<code>&lt;priorLc&gt; <a href="#">LetterOfCredit</a> &lt;/priorLc&gt; [1]</code>
'The letter of credit before the amendment.'
<code>&lt;postLc&gt; <a href="#">LetterOfCredit</a> &lt;/postLc&gt; [1]</code>
'The letter of credit after the amendment.'
<code>&lt;party&gt; <a href="#">Party</a> &lt;/party&gt; [2..*]</code>
'The parties involved with the associated transaction.'
<code>&lt;/...&gt;</code>

Diagram



Schema Component Representation

<pre>&lt;xsd:complexType name="LcAmendmentNotice"&gt;   &lt;xsd:complexContent&gt;     &lt;xsd:extension base="FacilityNotice"&gt;       &lt;xsd:sequence&gt;         &lt;xsd:element name="effectiveDate" type="xsd:date"/&gt;         &lt;xsd:element name="priorLc" type="LetterOfCredit"/&gt;       &lt;/xsd:sequence&gt;     &lt;/xsd:extension&gt;   &lt;/xsd:complexContent&gt; &lt;/xsd:complexType&gt;</pre>
---

Complex Type: LcBalanceNotice

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>LcBalanceNotice</b> (by extension)
Sub-types:	None
Name	LcBalanceNotice
Abstract	no
Documentation	Letter of Credit balance change notice.

XML Instance Representation

<... version=" xsd:token (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1]  'Indicate which version of the FpML Schema an FpML message adheres to.'  " expectedBuild=" xsd:positiveInteger [0..1]  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'  " actualBuild="5 [0..1]  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'  "> <header> <a href="#">NotificationMessageHeader</a> </header> [1] <validation> <a href="#">Validation</a> </validation> [0..*] <noticeDate> xsd:date </noticeDate> [1] 'The date on which the notice was generated.'  <eventId> <a href="#">EventId</a> </eventId> [0..1] 'The identifier that defines the business event which requires the creation of a notice.'  <agentBankPartyReference> <a href="#">PartyReference</a> </agentBankPartyReference> [0..1] 'A reference to the agent bank for the given deal.'  <borrowerPartyReference> <a href="#">PartyReference</a> </borrowerPartyReference> [0..1] 'A reference to the borrower against the associated loan contract(s).'  <lenderPartyReference> <a href="#">PartyReference</a> </lenderPartyReference> [0..1] 'A reference to the lender(s) associated with the associated loan contract(s).'  <dealSummary> <a href="#">DealSummary</a> </dealSummary> [1] 'A data structure which contains the identifying characteristics of the given deal.'  <facilitySummary> <a href="#">FacilitySummary</a> </facilitySummary> [1]
--

'A data structure which contains the identifying characteristics of the given facility.'

<facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]

'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender\'s viewpoint as of the date of the associated notice.'

<exceptionFlag> xsd:boolean </exceptionFlag> [0..1]

'A flag which can be set by the message sender in order to signify an exceptional business event.'

<comments> xsd:string </comments> [0..1]

'A free-form, manually entered field which will be used by users directly for additional information.'

<lcSummary> LcSummary </lcSummary> [1]

'A basic set of fields to identify an LC. Please note that the partyReference within the contract identifier should refer to the Issuing Bank.'

<effectiveDate> xsd:date </effectiveDate> [1]

'Effective date of the balance change.'

<priorAmount> ParticipationAmount </priorAmount> [0..1]

'The global and lender share amount of the L/C before any associated balance change.'

<balanceChangeAmount> ParticipationAmount </balanceChangeAmount> [1]

'The amount that the L/C has shifted by. Shown at both the global and share levels.'

<currentAmount> ParticipationAmount </currentAmount> [1]

'The global and lender share amount of the L/C after any associated balance change.'

<lcDrawFlag> xsd:boolean </lcDrawFlag> [1]

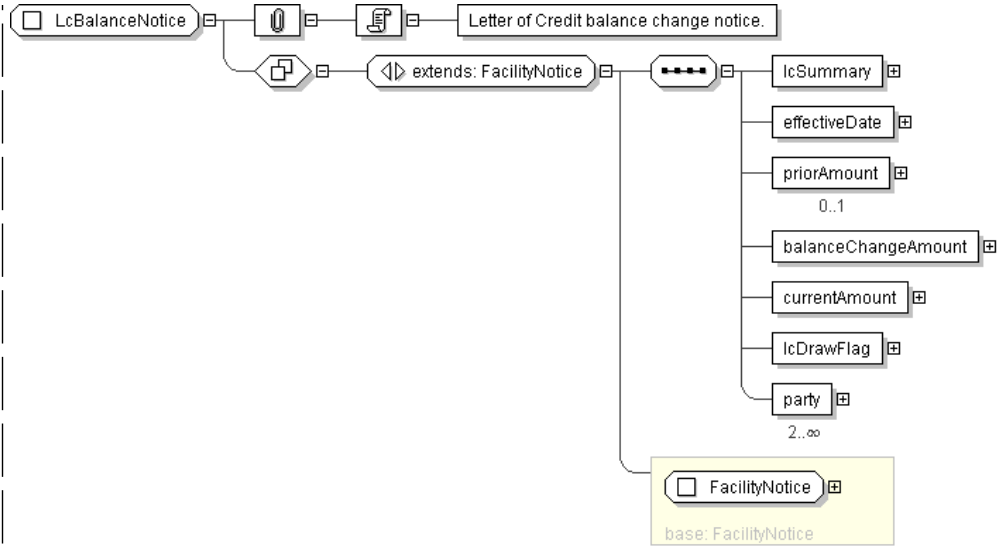
'Set to false for a normal increase or decrease in the LC amount. An LC draw results in a reduction of the LC amount and signifies that a loan drawdown will take place in conjunction with this message.'

<party> Party </party> [2..\*]

'The parties involved with the associated transaction.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="LcBalanceNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:element name="lcSummary" type="LcSummary"/>
        <xsd:element name="effectiveDate" type="xsd:date"/>
        <xsd:element name="priorAmount" type="ParticipationAmount" minOccurs="0"/>
        <xsd:element name="balanceChangeAmount" type="ParticipationAmount"/>
        <xsd:element name="currentAmount" type="ParticipationAmount"/>
        <xsd:element name="lcDrawFlag" type="xsd:boolean"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: LcEvergreenOption

Super-types:	None
Sub-types:	None
Name	LcEvergreenOption
Used by (from the same schema document)	Complex Type <a href="#">LetterOfCredit</a>
Abstract	no
Documentation	Represents the evergreen option that is available within Letter of Credit contracts.

XML Instance Representation

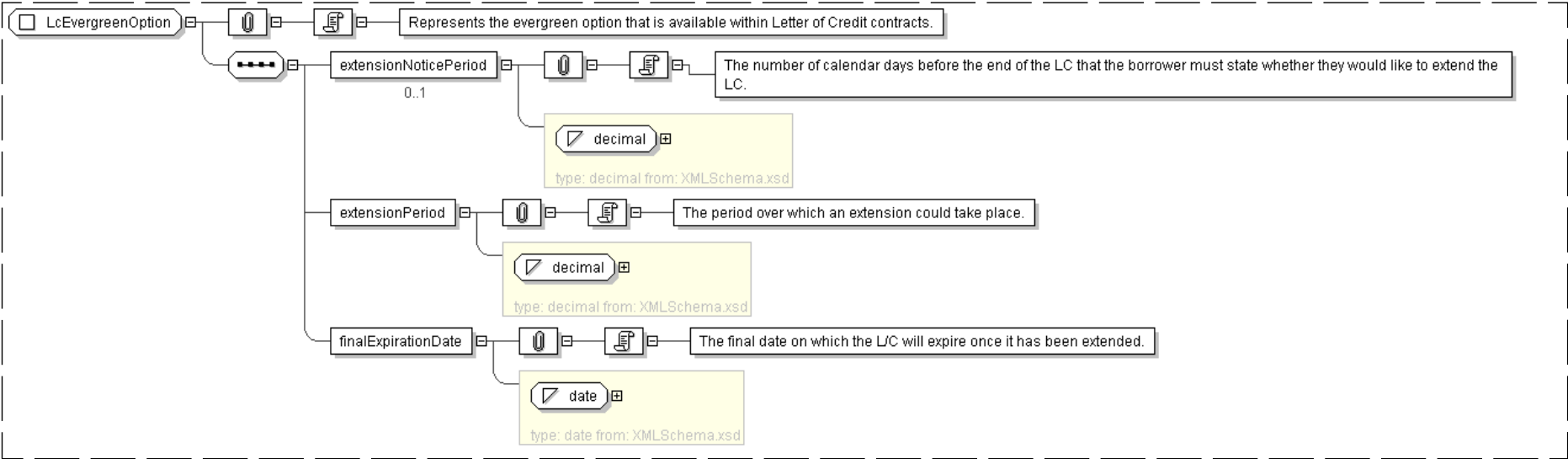
```
<...>
  <extensionNoticePeriod> xsd:decimal </extensionNoticePeriod> [0..1]
  'The number of calendar days before the end of the LC that the borrower must state whether
  they would like to extend the LC.'

  <extensionPeriod> xsd:decimal </extensionPeriod> [1]
  'The period over which an extension could take place.'
```

```
<finalExpirationDate> xsd:date </finalExpirationDate> [1]
'The final date on which the L/C will expire once it has been extended.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LcEvergreenOption">
  <xsd:sequence>
    <xsd:element name="extensionNoticePeriod" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="extensionPeriod" type="xsd:decimal"/>
    <xsd:element name="finalExpirationDate" type="xsd:date"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **LcIssuanceNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>LcIssuanceNotice</b> (by extension)
Sub-types:	None

Name	LcIssuanceNotice
Abstract	no
Documentation	Letter of Credit issuance notice.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

```
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
```

```
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<noticeDate> xsd:date </noticeDate> [1]
'The date on which the notice was generated.'

<eventId> EventId </eventId> [0..1]
'The identifier that defines the business event which requires the creation of a notice.'

<agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1]
'A reference to the agent bank for the given deal.'

<borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1]
'A reference to the borrower against the associated loan contract(s).'

<lenderPartyReference> PartyReference </lenderPartyReference> [0..1]
'A reference to the lender(s) associated with the associated loan contract(s).'

<dealSummary> DealSummary </dealSummary> [1]
'A data structure which contains the identifying characteristics of the given deal.'

<facilitySummary> FacilitySummary </facilitySummary> [1]
'A data structure which contains the identifying characteristics of the given facility.'

<facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]
'A structure which contains the position being held by the lender on both the facility and
loan contract levels. This position information is from the message sender's viewpoint as
of the date of the associated notice.'

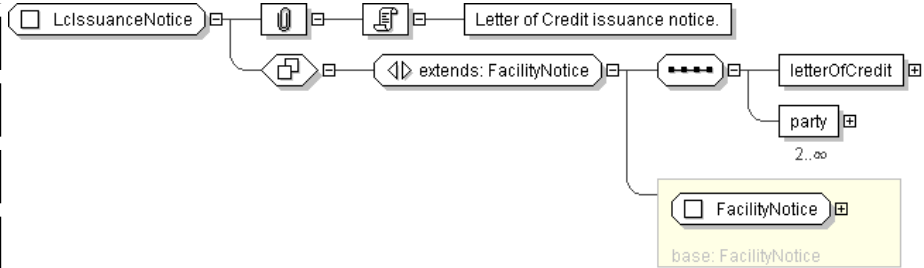
<exceptionFlag> xsd:boolean </exceptionFlag> [0..1]
'A flag which can be set by the message sender in order to signify an exceptional
business event.'

<comments> xsd:string </comments> [0..1]
'A free-form, manually entered field which will be used by users directly for
additional information.'

<letterOfCredit> LetterOfCredit </letterOfCredit> [1]
<party> Party </party> [2..*]
'The parties involved with the associated transaction.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LcIssuanceNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:element name="letterOfCredit" type="LetterOfCredit"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

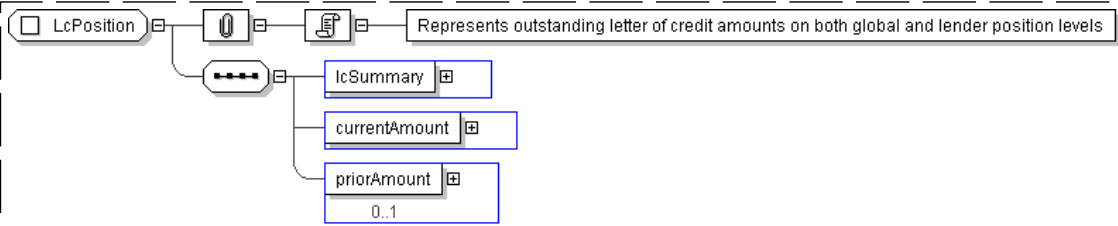
Complex Type: **LcPosition**

Super-types:	None
Sub-types:	None
Name	LcPosition
Used by (from the same schema document)	Complex Type <a href="#">FacilityCommitmentPosition</a>
Abstract	no
Documentation	Represents outstanding letter of credit amounts on both global and lender position levels

XML Instance Representation

```
<...>
  <lcSummary> LcSummary </lcSummary> [1]
  <currentAmount> ParticipationAmount </currentAmount> [1]
  <priorAmount> ParticipationAmount </priorAmount> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LcPosition">
  <xsd:sequence>
    <xsd:element name="lcSummary" type="LcSummary"/>
    <xsd:element name="currentAmount" type="ParticipationAmount"/>
  </xsd:sequence>
</xsd:complexType>
```



```
<xsd:element name="priorAmount" type=" ParticipationAmount " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LcSummary**

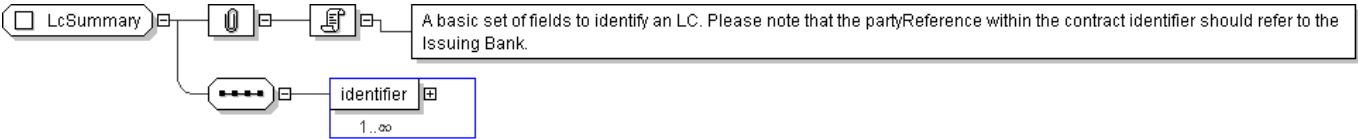
Super-types:	None
Sub-types:	None

Name	LcSummary
Used by (from the same schema document)	Complex Type <a href="#">LcBalanceNotice</a> , Complex Type <a href="#">LcPosition</a> , Complex Type <a href="#">LcTerminationNotice</a> , Complex Type <a href="#">LetterOfCredit</a> , Complex Type <a href="#">OneOffFeeNotice</a> , Complex Type <a href="#">OnGoingFeeRateChange</a> , Complex Type <a href="#">OnGoingFeeNotice</a>
Abstract	no
Documentation	A basic set of fields to identify an LC. Please note that the partyReference within the contract identifier should refer to the Issuing Bank.

XML Instance Representation

```
<...>
  <identifier> ContractIdentifier </identifier> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LcSummary">
  <xsd:sequence>
    <xsd:element name="identifier" type=" ContractIdentifier " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LcTerminationNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>LcTerminationNotice</b> (by extension)
Sub-types:	None

Name	LcTerminationNotice
Abstract	no
Documentation	Letter of Credit termination notice. LC's can either expire or be cancelled; both of these scenarios would be captured by this notice.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'})" [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
```

specify which build number of the schema was used to define the message when it was generated.'

"

actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> [NotificationMessageHeader](#) </header> [1]

<validation> [Validation](#) </validation> [0..\*]

<noticeDate> [xsd:date](#) </noticeDate> [1]

'The date on which the notice was generated.'

<eventId> [EventId](#) </eventId> [0..1]

'The identifier that defines the business event which requires the creation of a notice.'

<agentBankPartyReference> [PartyReference](#) </agentBankPartyReference> [0..1]

'A reference to the agent bank for the given deal.'

<borrowerPartyReference> [PartyReference](#) </borrowerPartyReference> [0..1]

'A reference to the borrower against the associated loan contract(s).'

<lenderPartyReference> [PartyReference](#) </lenderPartyReference> [0..1]

'A reference to the lender(s) associated with the associated loan contract(s).'

<dealSummary> [DealSummary](#) </dealSummary> [1]

'A data structure which contains the identifying characteristics of the given deal.'

<facilitySummary> [FacilitySummary](#) </facilitySummary> [1]

'A data structure which contains the identifying characteristics of the given facility.'

<facilityCommitmentPosition> [FacilityCommitmentPosition](#) </facilityCommitmentPosition> [0..1]

'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender's viewpoint as of the date of the associated notice.'

<exceptionFlag> [xsd:boolean](#) </exceptionFlag> [0..1]

'A flag which can be set by the message sender in order to signify an exceptional business event.'

<comments> [xsd:string](#) </comments> [0..1]

'A free-form, manually entered field which will be used by users directly for additional information.'

<lcSummary> [LcSummary](#) </lcSummary> [1]

<effectiveDate> [xsd:date](#) </effectiveDate> [1]

<lcExpiryFlag> [xsd:boolean](#) </lcExpiryFlag> [1]

'Determines whether this event was created due to a natural expiration of the LC or an unscheduled cancellation.'

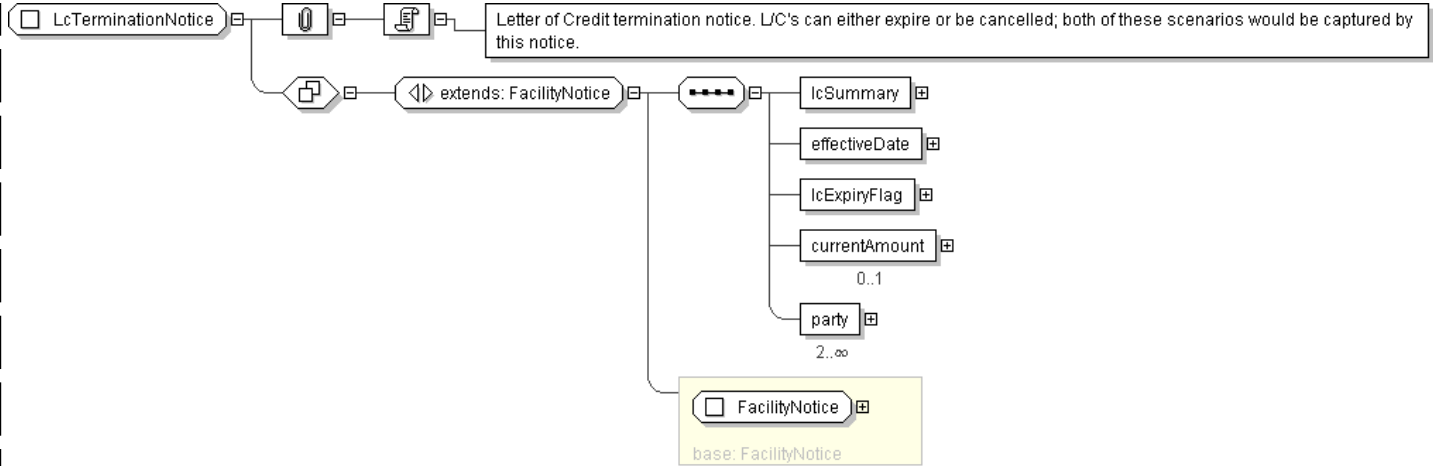
<currentAmount> [ParticipationAmount](#) </currentAmount> [0..1]

<party> [Party](#) </party> [2..\*]

'The parties involved with the associated transaction.'

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="LcTerminationNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:element name="lcSummary" type="LcSummary"/>
        <xsd:element name="effectiveDate" type="xsd:date"/>
        <xsd:element name="lcExpiryFlag" type="xsd:boolean"/>
        <xsd:element name="currentAmount" type="ParticipationAmount" minOccurs="0"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **LenderLoanContractPeriod**

Super-types:	None
Sub-types:	None
Name	LenderLoanContractPeriod
Used by (from the same schema document)	Complex Type <a href="#">InterestAccrualSchedule</a>
Abstract	no
Documentation	A period within which the lender maintains a constant loan contract position.

XML Instance Representation

```
<...>
  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'

  <endDate> xsd:date </endDate> [1]
  'Date on which this period ends.'

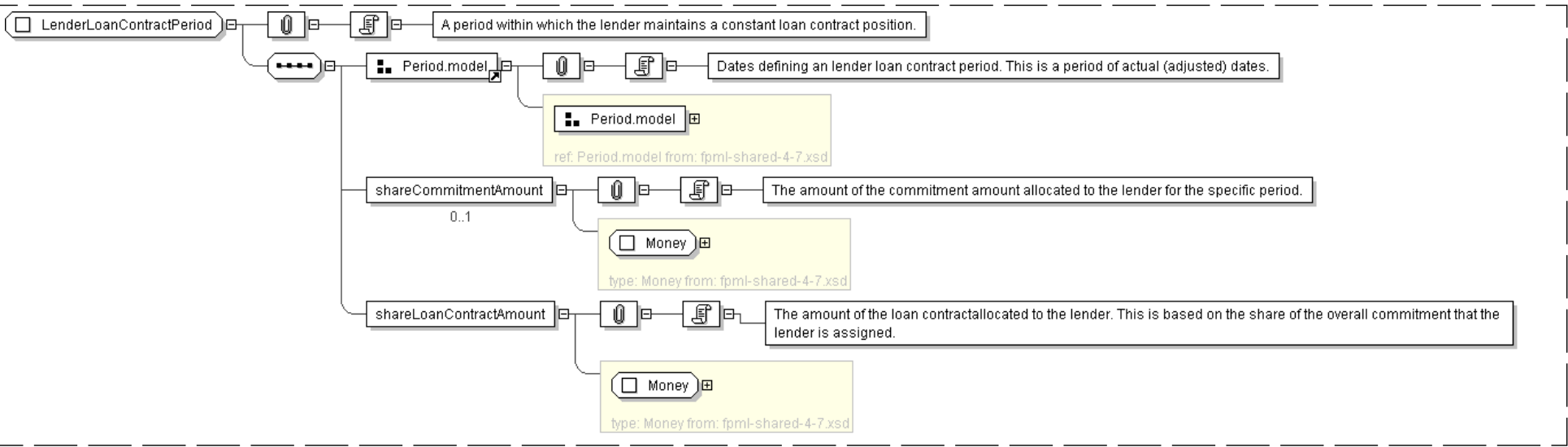
  <shareCommitmentAmount> Money </shareCommitmentAmount> [0..1]
  'The amount of the commitment amount allocated to the lender for the specific period.'

  <shareLoanContractAmount> Money </shareLoanContractAmount> [1]
  'The amount of the loan contract allocated to the lender. This is based on the share of
```

the overall commitment that the lender is assigned.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="LenderLoanContractPeriod">
  <xsd:sequence>
    <xsd:group ref="Period.model" />
    <xsd:element name="shareCommitmentAmount" type="Money" minOccurs="0"/>
    <xsd:element name="shareLoanContractAmount" type="Money" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LenderPositionPeriod**

Super-types:	None
Sub-types:	None
Name	LenderPositionPeriod
Used by (from the same schema document)	Complex Type <a href="#">FeeAccrualSchedule</a> , Complex Type <a href="#">FeeAccrualSchedule</a> , Complex Type <a href="#">FeeAccrualSchedule</a> , Complex Type <a href="#">FeeAccrualSchedule</a>
Abstract	no
Documentation	A period within which the lender maintains a constant position amount.

XML Instance Representation

```
<...>
  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'

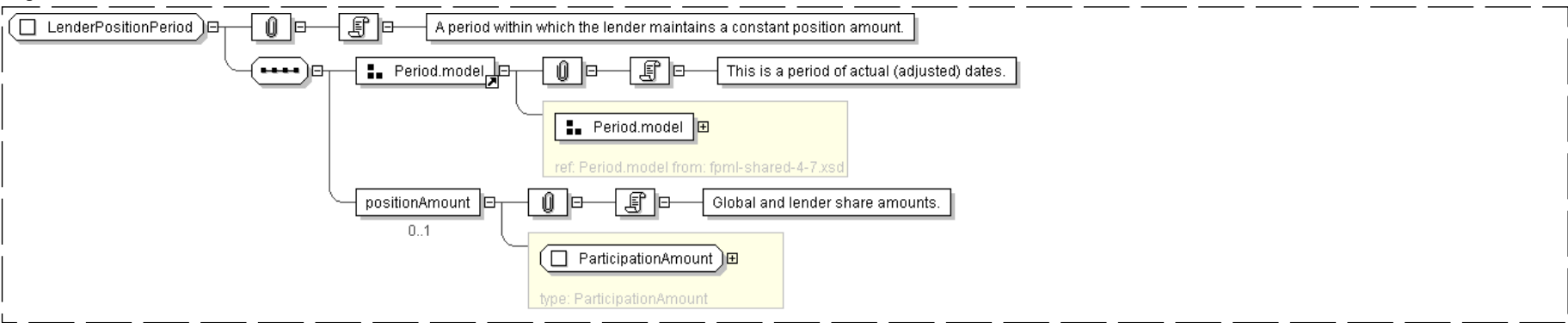
  <endDate> xsd:date </endDate> [1]
  'Date on which this period ends.'

  <positionAmount> ParticipationAmount </positionAmount> [0..1]
```

```
'Global and lender share amounts.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LenderPositionPeriod">
  <xsd:sequence>
    <xsd:group ref="Period.model" />
    <xsd:element name="positionAmount" type="ParticipationAmount" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: LetterOfCredit

Super-types:	None
Sub-types:	None

Name	LetterOfCredit
Used by (from the same schema document)	Complex Type <a href="#">LcAmendmentNotice</a> , Complex Type <a href="#">LcAmendmentNotice</a> , Complex Type <a href="#">LcIssuanceNotice</a>
Abstract	no
Documentation	An unfunded borrowing in the form of a Letter of Credit.

XML Instance Representation

```
<...>
  <lcSummary> LcSummary </lcSummary> [1]
  'A basic set of fields to identify an LC. Please note that the partyReference within
  the contract identifier should refer to the Issuing Bank.'
```

```
  <lcType> LcTypeEnum </lcType> [1]
  'Defines the type of Letter of Credit that is issued.'
```

```
  <lcPurpose> LcPurposeEnum </lcPurpose> [1]
  'Defines the purpose of a Letter of Credit.'
```

```
  <borrowerPartyReference> PartyReference </borrowerPartyReference> [1]
  'There could be multiple borrowers against a loan contract however the agents have been
  trying to promote the concept of an administrative borrower. Hence, only one being shown in
  the field list.'
```

```
  Start Choice [1]
    <beneficiaryPartyReference> PartyReference </beneficiaryPartyReference> [1]
```

'A party reference of the beneficiary.'

```
<beneficiaryPartyName> xsd:string </beneficiaryPartyName> [1]
```

'A textual descriptor of the beneficiary.'

End Choice

```
<originalAmount> Money </originalAmount> [1]
```

'Original amount associated with the LC.'

```
<amount> Money </amount> [1]
```

'An amount associated with the letter of credit.'

```
<effectiveDate> xsd:date </effectiveDate> [1]
```

'Effective date of the loan contract. This is the date on which the funds are passed to the borrower.'

```
<expiryDate> xsd:date </expiryDate> [1]
```

'Maturity date of the LC.'

```
<fxTerms> FxTerms </fxTerms> [0..1]
```

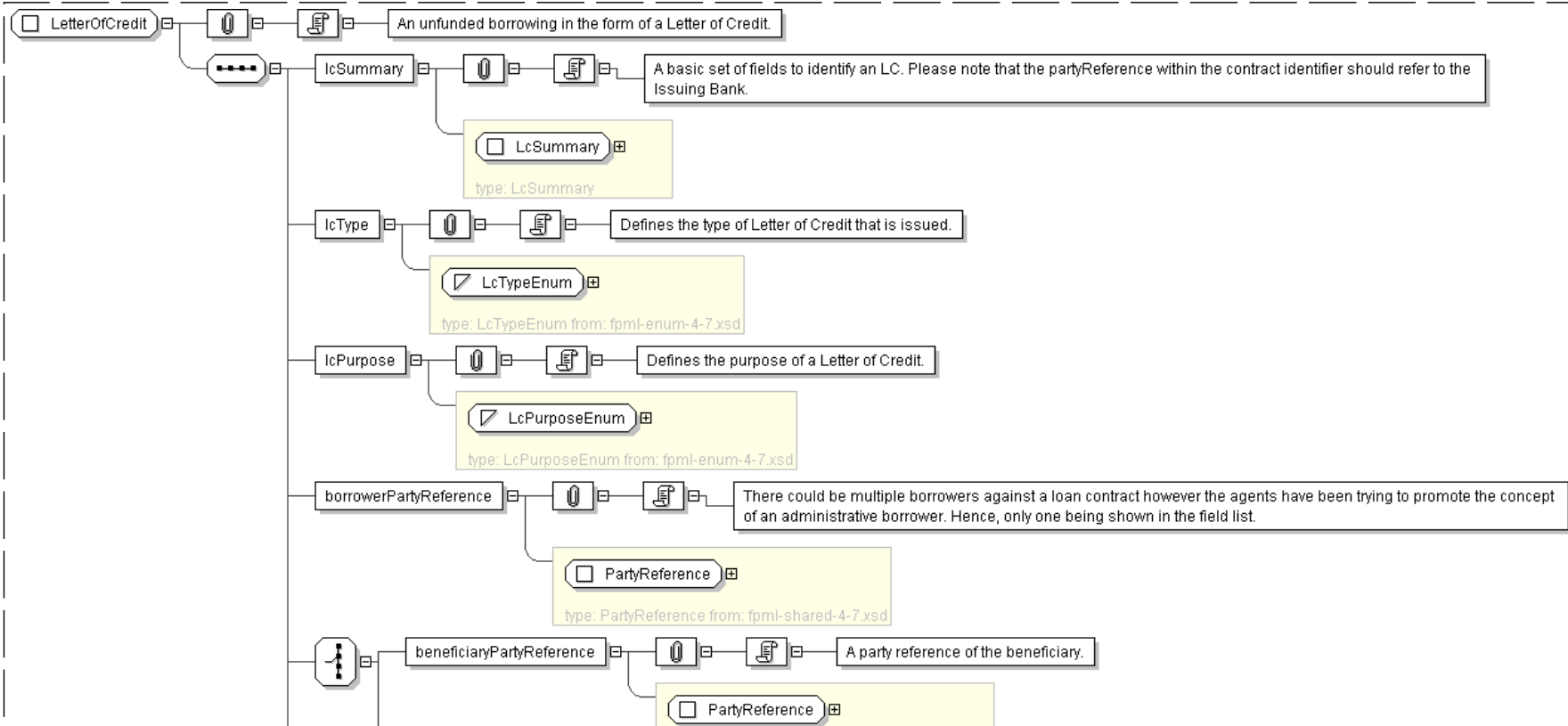
'Defines FX exchange rate when loan contract and facility currencies are different.'

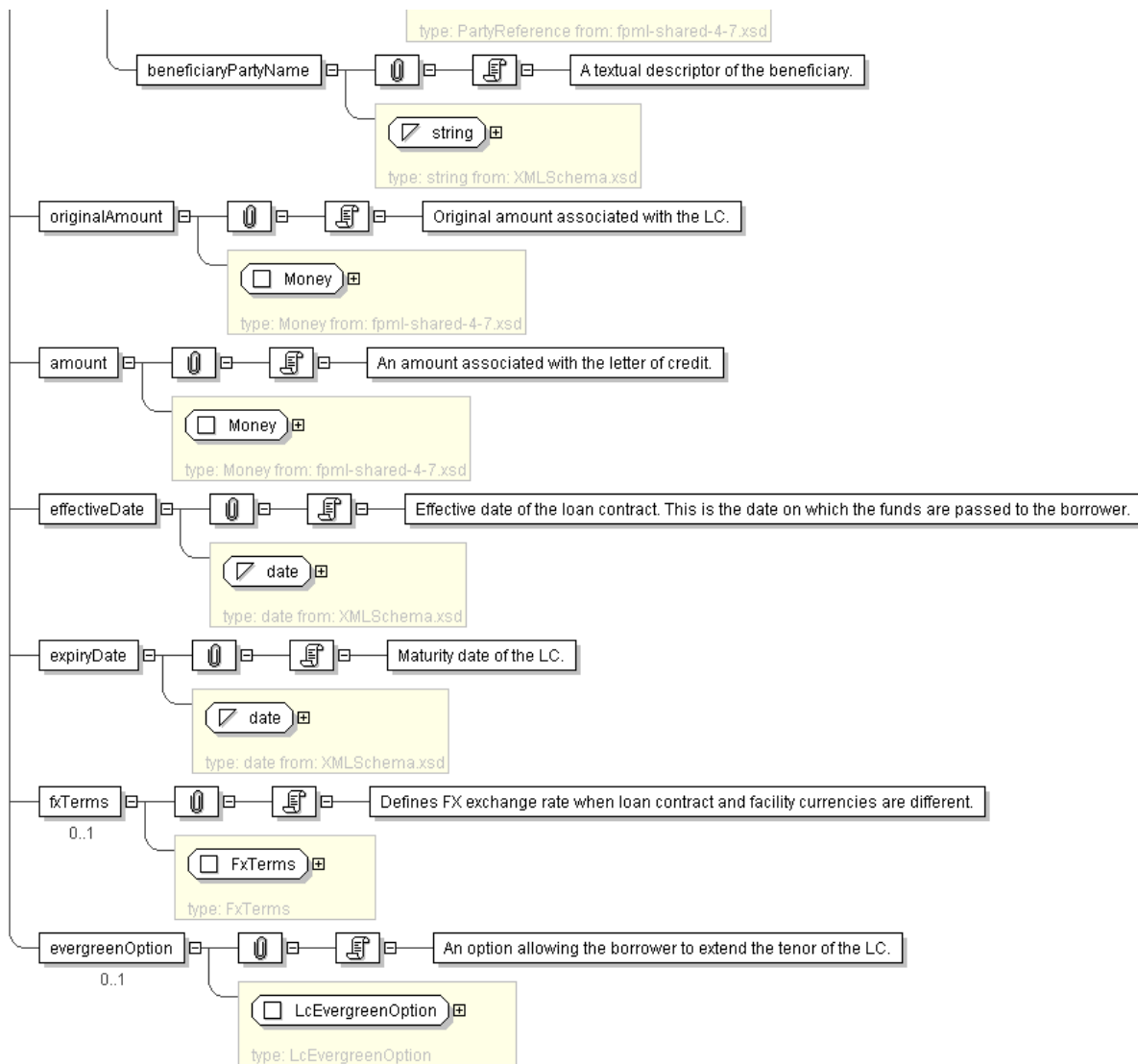
```
<evergreenOption> LcEvergreenOption </evergreenOption> [0..1]
```

'An option allowing the borrower to extend the tenor of the LC.'

</...>

#### Diagram





#### Schema Component Representation

```

<xsd:complexType name="LetterOfCredit">
  <xsd:sequence>
    <xsd:element name="lcSummary" type=" LcSummary" />
    <xsd:element name="lcType" type=" LcTypeEnum" />
    <xsd:element name="lcPurpose" type=" LcPurposeEnum" />
    <xsd:element name="borrowerPartyReference" type=" PartyReference" />
    <xsd:choice>
      <xsd:element name="beneficiaryPartyReference" type=" PartyReference" />
      <xsd:element name="beneficiaryPartyName" type=" xsd:string" />
    </xsd:choice>
    <xsd:element name="originalAmount" type=" Money" />
    <xsd:element name="amount" type=" Money" />
    <xsd:element name="effectiveDate" type=" xsd:date" />
    <xsd:element name="expiryDate" type=" xsd:date" />
    <xsd:element name="fxTerms" type=" FxTerms" minOccurs="0"/>
  
```

Complex Type: **LoanContract**

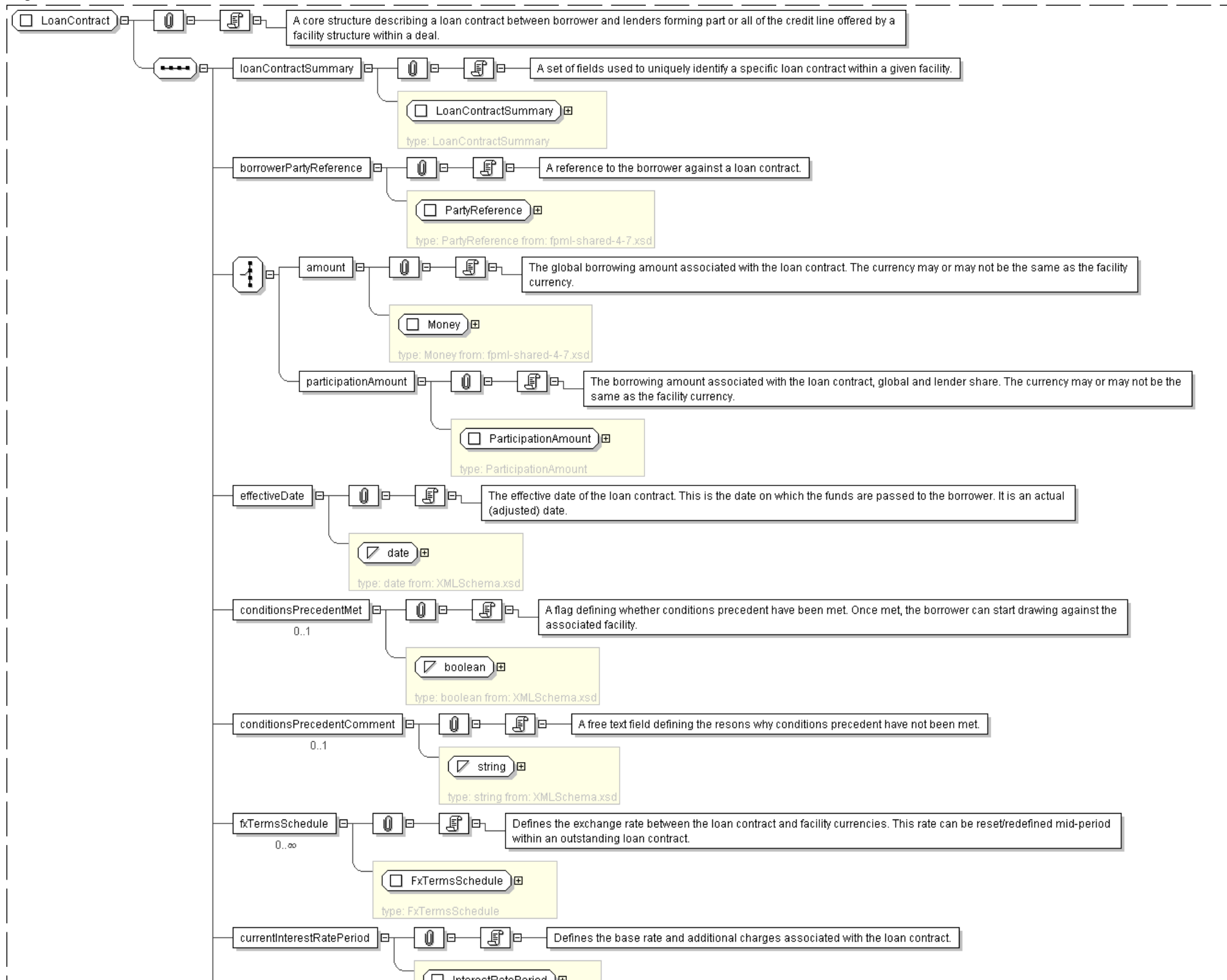
Super-types:	None
Sub-types:	None
Name	LoanContract
Used by (from the same schema document)	Complex Type <a href="#">LoanContractNotice</a> , Complex Type <a href="#">NewLoanContracts</a>
Abstract	no
Documentation	A core structure describing a loan contract between borrower and lenders forming part or all of the credit line offered by a facility structure within a deal.

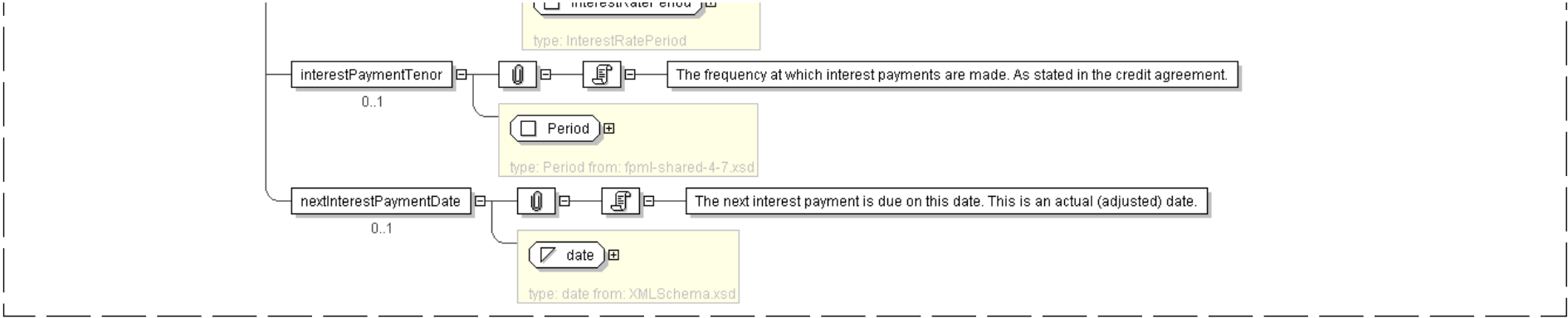
XML Instance Representation

<...>	<loanContractSummary> <a href="#">LoanContractSummary</a> </loanContractSummary> [1]
	'A set of fields used to uniquely identify a specific loan contract within a given facility.'
<borrowerPartyReference> <a href="#">PartyReference</a> </borrowerPartyReference> [1]	
	'A reference to the borrower against a loan contract.'
Start <a href="#">Choice</a> [1]	
<amount> <a href="#">Money</a> </amount> [1]	
	'The global borrowing amount associated with the loan contract. The currency may or may not be the same as the facility currency.'
<participationAmount> <a href="#">ParticipationAmount</a> </participationAmount> [1]	
	'The borrowing amount associated with the loan contract, global and lender share. The currency may or may not be the same as the facility currency.'
End <a href="#">Choice</a>	
<effectiveDate> <a href="#">xsd:date</a> </effectiveDate> [1]	
	'The effective date of the loan contract. This is the date on which the funds are passed to the borrower. It is an actual (adjusted) date.'
<conditionsPrecedentMet> <a href="#">xsd:boolean</a> </conditionsPrecedentMet> [0..1]	
	'A flag defining whether conditions precedent have been met. Once met, the borrower can start drawing against the associated facility.'
<conditionsPrecedentComment> <a href="#">xsd:string</a> </conditionsPrecedentComment> [0..1]	
	'A free text field defining the reasons why conditions precedent have not been met.'
<fxTermsSchedule> <a href="#">FxTermsSchedule</a> </fxTermsSchedule> [0..*]	
	'Defines the exchange rate between the loan contract and facility currencies. This rate can be reset/redefined mid-period within an outstanding loan contract.'
<currentInterestRatePeriod> <a href="#">InterestRatePeriod</a> </currentInterestRatePeriod> [1]	
	'Defines the base rate and additional charges associated with the loan contract.'
<interestPaymentTenor> <a href="#">Period</a> </interestPaymentTenor> [0..1]	
	'The frequency at which interest payments are made. As stated in the credit agreement.'
<nextInterestPaymentDate> <a href="#">xsd:date</a> </nextInterestPaymentDate> [0..1]	
	'The next interest payment is due on this date. This is an actual (adjusted) date.'
</...>	



## Diagram





Schema Component Representation

```
<xsd:complexType name="LoanContract">
  <xsd:sequence>
    <xsd:element name="loanContractSummary" type=" LoanContractSummary "/>
    <xsd:element name="borrowerPartyReference" type=" PartyReference "/>
    <xsd:choice>
      <xsd:element name="amount" type=" Money "/>
      <xsd:element name="participationAmount" type=" ParticipationAmount "/>
    </xsd:choice>
    <xsd:element name="effectiveDate" type=" xsd:date "/>
    <xsd:element name="conditionsPrecedentMet" type=" xsd:boolean " minOccurs="0"/>
    <xsd:element name="conditionsPrecedentComment" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="fxTermsSchedule" type=" FxTermsSchedule "
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="currentInterestRatePeriod" type=" InterestRatePeriod "/>
    <xsd:element name="interestPaymentTenor" type=" Period " minOccurs="0"/>
    <xsd:element name="nextInterestPaymentDate" type=" xsd:date " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **LoanContractNotice**

Super-types:	<a href="#">NotificationMessage</a> < <b>LoanContractNotice</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DrawdownNotice</a> (by extension)</li><li><a href="#">InterestPaymentNotice</a> (by extension)</li></ul>

Name	LoanContractNotice
Abstract	yes
Documentation	An abstract type containing all the common elements of a loan contract-level notice.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
```

actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

```
<?xml version='1.0' encoding='UTF-8'>
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<noticeDate> xsd:date </noticeDate> [1]
  'The date on which the notice was generated.'

  <eventId> EventId </eventId> [0..1]
  'The identifier that defines the business event which requires the creation of a notice.'

  <agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1]
  'A reference to the agent bank for the given deal.'

  <borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1]
  'A reference to the borrower against the associated loan contract(s).'

  <lenderPartyReference> PartyReference </lenderPartyReference> [0..1]
  'A reference to the lender(s) associated with the associated loan contract(s).'

  <dealSummary> DealSummary </dealSummary> [1]
  'A data structure which contains the identifying characteristics of the given deal.'

  <facilitySummary> FacilitySummary </facilitySummary> [1]
  'A data structure which contains the identifying characteristics of the given facility.'

  <facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]
  'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender's viewpoint as of the date of the associated notice.'

  <exceptionFlag> xsd:boolean </exceptionFlag> [0..1]
  'A flag which can be set by the message sender in order to signify an exceptional business event.'

  <comments> xsd:string </comments> [0..1]
  'A free-form, manually entered field which will be used by users directly for additional information.'
```

Start Choice [1]

'The sender may choose to either transmit the full or partial loan contract details.'

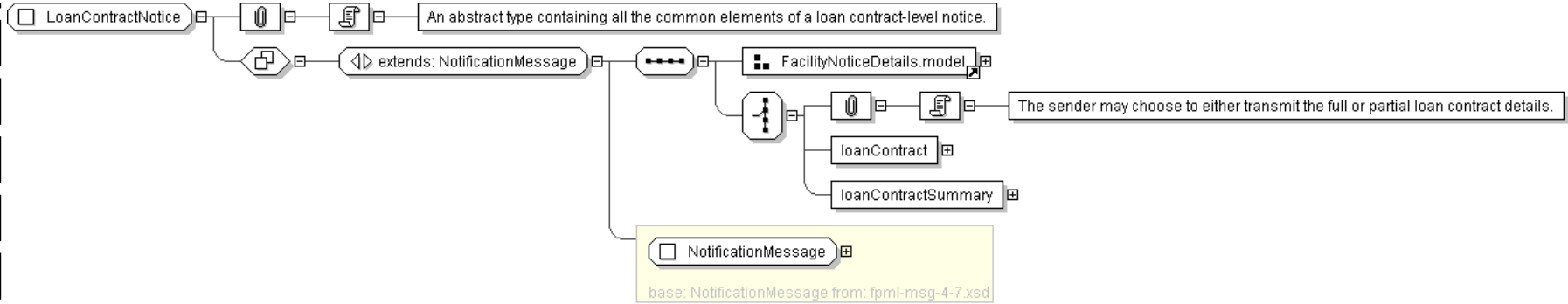
```
<loanContract> LoanContract </loanContract> [1]
  'A core structure describing a loan contract between borrower and lenders forming part or all of the credit line offered by a facility structure within a deal.'

  <loanContractSummary> LoanContractSummary </loanContractSummary> [1]
  'A basic set of fields used to uniquely identify the loan contract.'
```

End Choice

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="LoanContractNotice" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " />
    <xsd:sequence>
      <xsd:group ref=" FacilityNoticeDetails.model " />
      <xsd:choice>
        <xsd:element name="loanContract" type=" LoanContract " />
        <xsd:element name="loanContractSummary" type=" LoanContractSummary " />
      </xsd:choice>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

[top](#)

Complex Type: **LoanContractPosition**

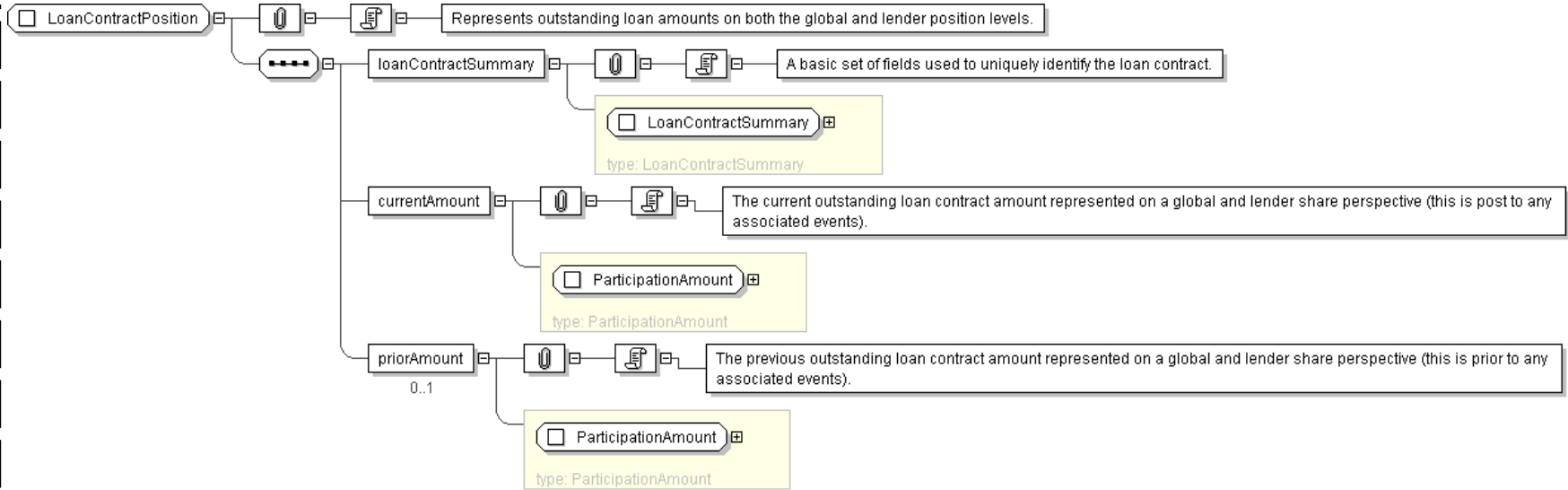
Super-types:	None
Sub-types:	None
Name	LoanContractPosition
Used by (from the same schema document)	Complex Type <a href="#">FacilityCommitmentPosition</a>
Abstract	no
Documentation	Represents outstanding loan amounts on both the global and lender position levels.

XML Instance Representation

```
<...>
  <loanContractSummary> LoanContractSummary </loanContractSummary> [1]
  'A basic set of fields used to uniquely identify the loan contract.'

  <currentAmount> ParticipationAmount </currentAmount> [1]
  'The current outstanding loan contract amount represented on a global and lender
  share perspective (this is post to any associated events).'ParticipationAmount </priorAmount> [0..1]
  'The previous outstanding loan contract amount represented on a global and lender
  share perspective (this is prior to any associated events).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LoanContractPosition">
  <xsd:sequence>
    <xsd:element name="loanContractSummary" type=" LoanContractSummary " />
    <xsd:element name="currentAmount" type=" ParticipationAmount " />
    <xsd:element name="priorAmount" type=" ParticipationAmount " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

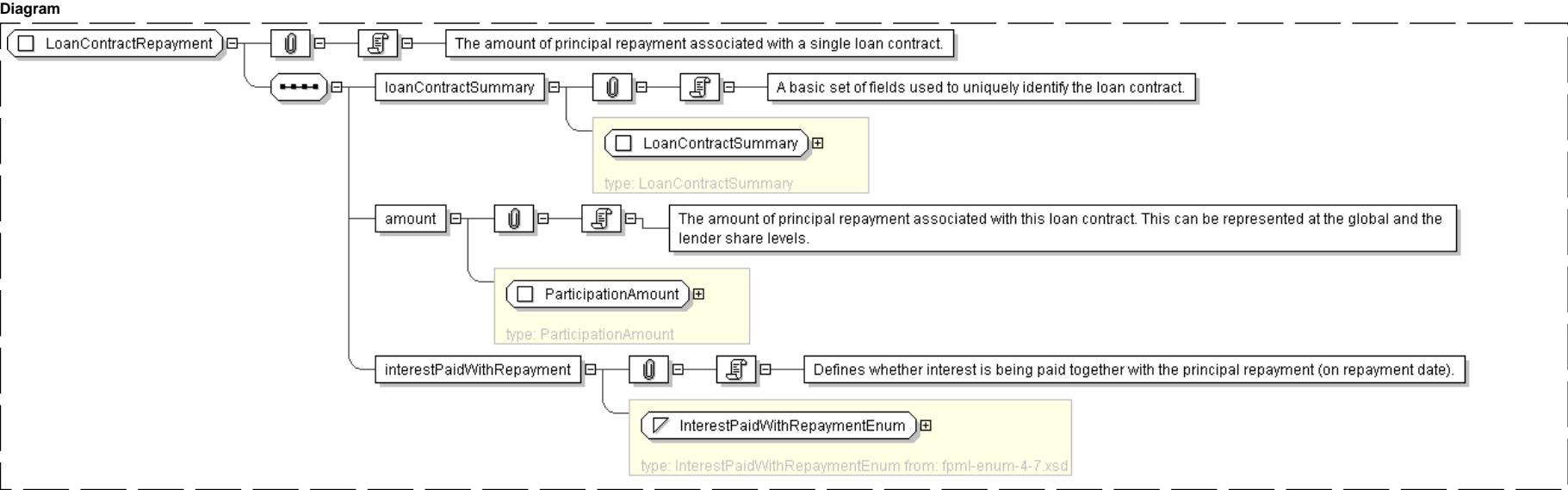
Complex Type: **LoanContractRepayment**

Super-types:	None
Sub-types:	None
Name	LoanContractRepayment
Used by (from the same schema document)	Complex Type <a href="#">Repayment</a>
Abstract	no
Documentation	The amount of principal repayment associated with a single loan contract.

XML Instance Representation

```
<...>
  <loanContractSummary> LoanContractSummary </loanContractSummary> [1]
  'A basic set of fields used to uniquely identify the loan contract.'ParticipationAmount </amount> [1]
  'The amount of principal repayment associated with this loan contract. This can be
  represented at the global and the lender share levels.'

  <interestPaidWithRepayment> InterestPaidWithRepaymentEnum </interestPaidWithRepayment> [1]
  'Defines whether interest is being paid together with the principal repayment (on
  repayment date).'
```



Schema Component Representation

```
<xsd:complexType name="LoanContractRepayment">
  <xsd:sequence>
    <xsd:element name="loanContractSummary" type=" LoanContractSummary " />
    <xsd:element name="amount" type=" ParticipationAmount " />
    <xsd:element name="interestPaidWithRepayment" type=" InterestPaidWithRepaymentEnum " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **LoanContractSummary**

Super-types:	None
Sub-types:	None
Name	LoanContractSummary
Used by (from the same schema document)	Complex Type <a href="#">LoanContract</a> , Complex Type <a href="#">LoanContractNotice</a> , Complex Type <a href="#">LoanContractPosition</a> , Complex Type <a href="#">LoanContractRepayment</a> , Complex Type <a href="#">MarginRateChange</a> , Complex Type <a href="#">MaturingLoanContract</a> , Complex Type <a href="#">OneOffFeeNotice</a> , Complex Type <a href="#">OnGoingFeeNotice</a>
Abstract	no
Documentation	A basic set of fields used to uniquely identify the loan contract.

XML Instance Representation

```
<...>
  <identifier> ContractIdentifier </identifier> [1..*]
  'A structure that can me used to store multiple identifiers for the loan contract.
  Each identifier has associated with it a scheme definition to tell the receipient the \'type
  \' of the id.'

  Start Choice [0..1]
    <originalAmount> Money </originalAmount> [1]
    'The original amount associated with the loan contract in loan contract currency.'

    <participationAmount> ParticipationAmount </participationAmount> [1]
    'Loan contract amount, global and lender share in loan currency.'
```

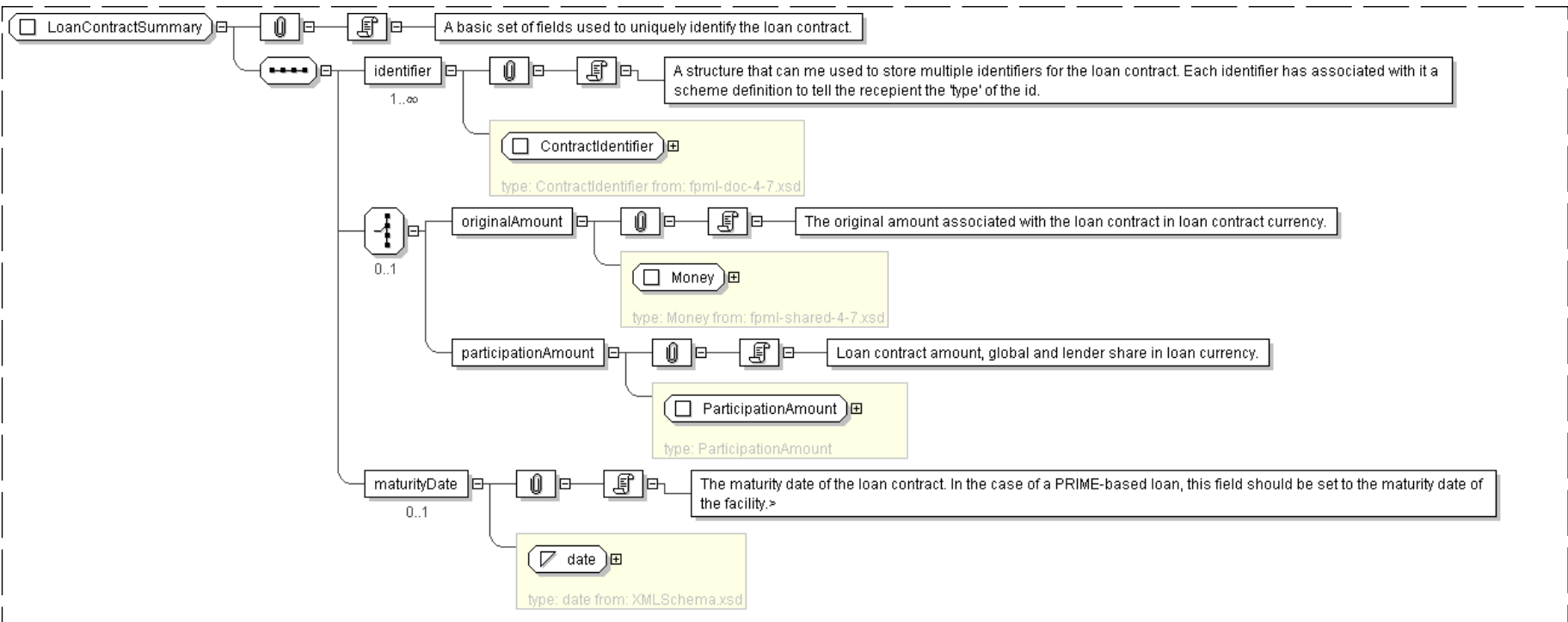
End Choice

<maturityDate> [xsd:date](#) </maturityDate> [0..1]

'The maturity date of the loan contract. In the case of a PRIME-based loan, this field should be set to the maturity date of the facility.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="LoanContractSummary">
  <xsd:sequence>
    <xsd:element name="identifier" type="ContractIdentifier" maxOccurs="unbounded"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="originalAmount" type="Money"/>
      <xsd:element name="participationAmount" type="ParticipationAmount"/>
    </xsd:choice>
    <xsd:element name="maturityDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **MarginRateChange**

Super-types:	None
Sub-types:	None
Name	MarginRateChange
Used by (from the same schema document)	Complex Type <a href="#">PricingChangeNotice</a>

Abstract	no
Documentation	The amount by which the margin rate has changed within a facility.

XML Instance Representation

```
<...>
Start Choice [1]
<borrowingOptionType> BorrowingOptionType </borrowingOptionType> [1]
  'The type of funded product for which the margin is being amended.'

<loanContractSummary> LoanContractSummary </loanContractSummary> [1]
  'A basic set of fields used to uniquely identify the loan contract.'

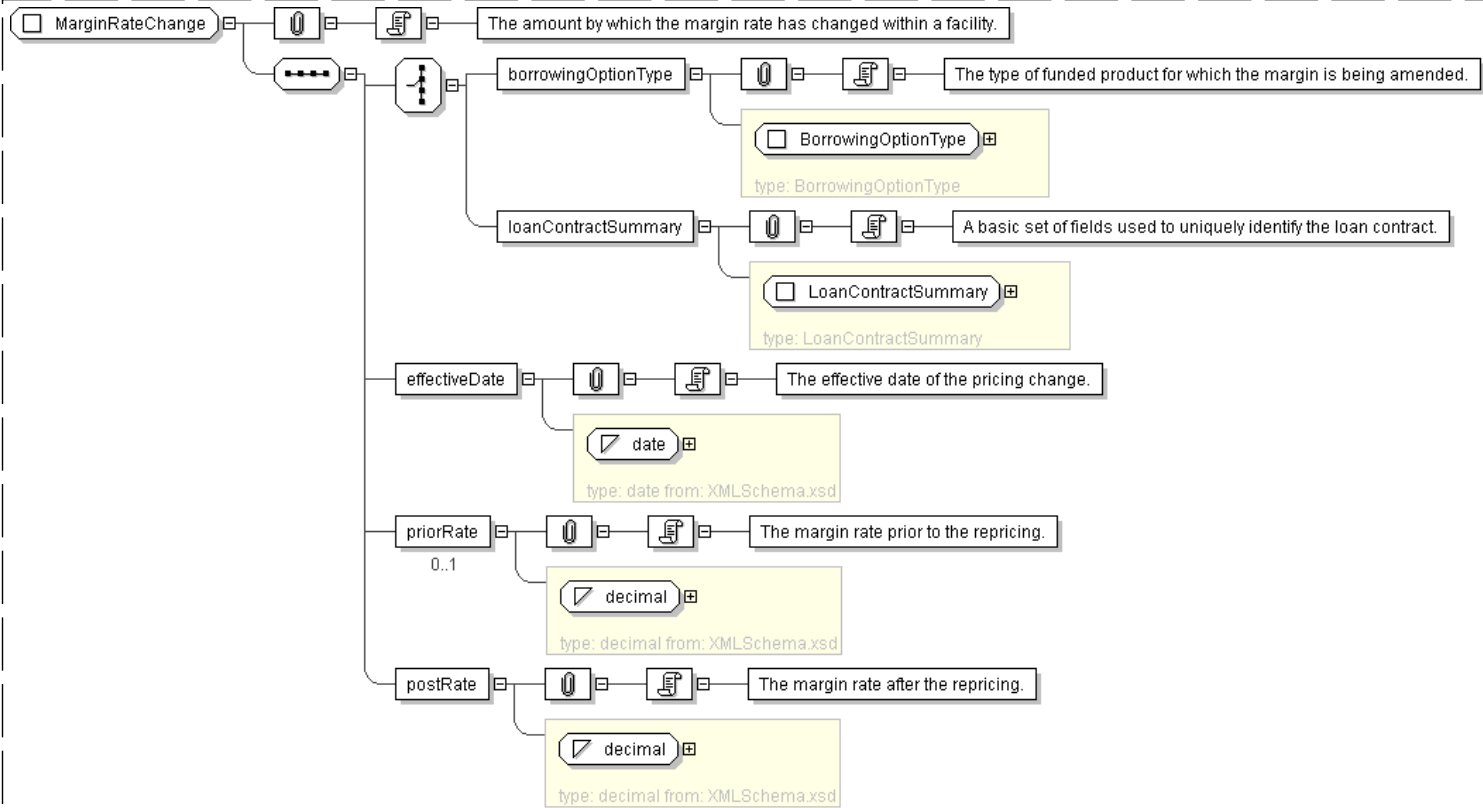
End Choice
<effectiveDate> xsd:date </effectiveDate> [1]
  'The effective date of the pricing change.'

<priorRate> xsd:decimal </priorRate> [0..1]
  'The margin rate prior to the repricing.'

<postRate> xsd:decimal </postRate> [1]
  'The margin rate after the repricing.'

</...>
```

Diagram



Schema Component Representation



```
<xsd:complexType name="MarginRateChange">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="borrowingOptionType" type="BorrowingOptionType"/>
      <xsd:element name="loanContractSummary" type="LoanContractSummary"/>
    </xsd:choice>
    <xsd:element name="effectiveDate" type="xsd:date"/>
    <xsd:element name="priorRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="postRate" type="xsd:decimal"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **MaturingLoanContract**

Super-types:	None
Sub-types:	None

Name	MaturingLoanContract
Used by (from the same schema document)	Complex Type <a href="#">MaturingLoanContracts</a>
Abstract	no
Documentation	Information about single maturing loan contract.

XML Instance Representation

```
<...>
  <loanContractSummary> LoanContractSummary </loanContractSummary> [1]
  'A basic set of fields used to uniquely identify the loan contract.'

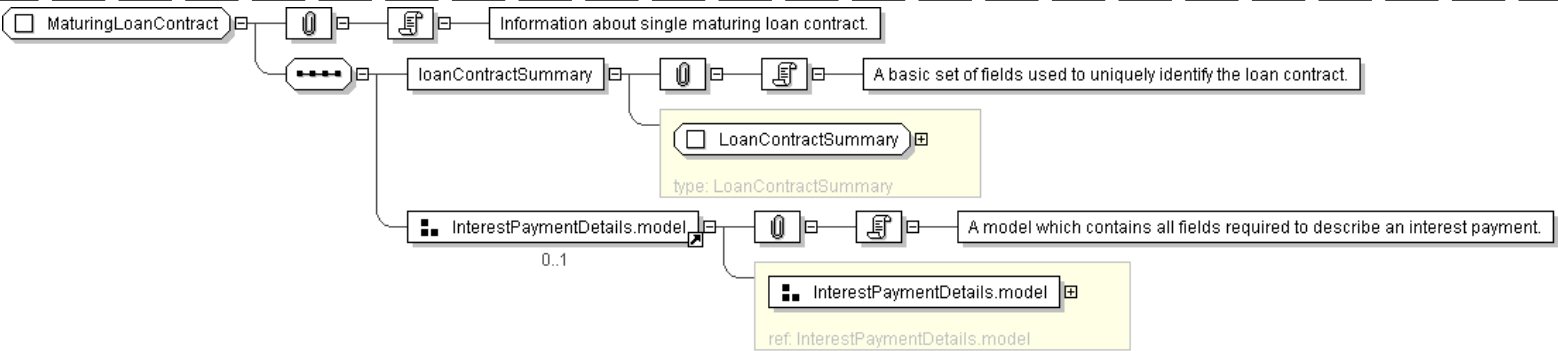
  Start Group: InterestPaymentDetails.model [0..1]
  'A model which contains all fields required to describe an interest payment.'

  <interestPayment> InterestPayment </interestPayment> [1]
  'Represents the total amount of interest paid by the borrower to the agent bank and the
  share of it paid to the lender.'

  <interestAccrualSchedule> InterestAccrualSchedule </interestAccrualSchedule> [1]
  'A schedule that incorporates all sub-periods of an interest accrual calculation.'

  End Group: InterestPaymentDetails.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MaturingLoanContract">
  <xsd:sequence>
    <xsd:element name="loanContractSummary" type=" LoanContractSummary " />
    <xsd:group ref=" InterestPaymentDetails.model " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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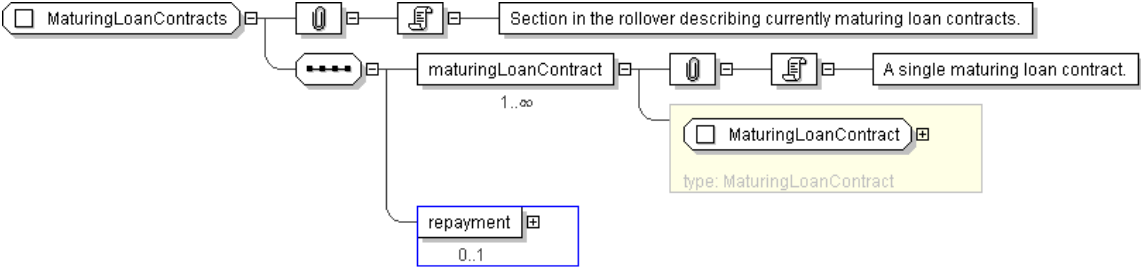
Complex Type: **MaturingLoanContracts**

Super-types:	None
Sub-types:	None
Name	MaturingLoanContracts
Used by (from the same schema document)	Complex Type <a href="#">RolloverNotice</a>
Abstract	no
Documentation	Section in the rollover describing currently maturing loan contracts.

XML Instance Representation

```
<...>
  <maturingLoanContract> MaturingLoanContract </maturingLoanContract> [1..*]
  'A single maturing loan contract.'
  <repayment> Repayment </repayment> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MaturingLoanContracts">
  <xsd:sequence>
    <xsd:element name="maturingLoanContract" type=" MaturingLoanContract " maxOccurs="unbounded"/>
    <xsd:element name="repayment" type=" Repayment " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **NewLoanContracts**

Super-types:	None
Sub-types:	None
Name	NewLoanContracts
Used by (from the same schema document)	Complex Type <a href="#">RolloverNotice</a>

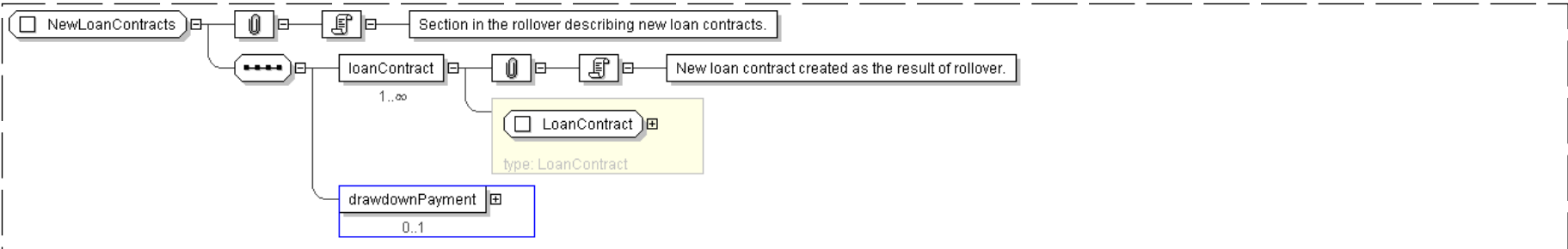
Abstract	no
Documentation	Section in the rollover describing new loan contracts.

XML Instance Representation

```
<...>
  <loanContract> LoanContract </loanContract> [1..*]
  'New loan contract created as the result of rollover.'

  <drawdownPayment> DrawdownPayment </drawdownPayment> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NewLoanContracts">
  <xsd:sequence>
    <xsd:element name="loanContract" type=" LoanContract " maxOccurs="unbounded"/>
    <xsd:element name="drawdownPayment" type=" DrawdownPayment " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **OnGoingFeeNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>OnGoingFeeNotice</b> (by extension)
Sub-types:	None

Name	OnGoingFeeNotice
Abstract	no
Documentation	The agent bank will request that the borrower makes a fee payment in accordance with the credit agreement. The borrower will make a payment to the agent bank after which the agent bank will calculate each lender's fee amount.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
```

validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

```
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<noticeDate> xsd:date </noticeDate> [1]
  'The date on which the notice was generated.'

<eventId> EventId </eventId> [0..1]
  'The identifier that defines the business event which requires the creation of a notice.'

<agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1]
  'A reference to the agent bank for the given deal.'

<borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1]
  'A reference to the borrower against the associated loan contract(s).'

<lenderPartyReference> PartyReference </lenderPartyReference> [0..1]
  'A reference to the lender(s) associated with the associated loan contract(s).'

<dealSummary> DealSummary </dealSummary> [1]
  'A data structure which contains the identifying characteristics of the given deal.'

<facilitySummary> FacilitySummary </facilitySummary> [1]
  'A data structure which contains the identifying characteristics of the given facility.'

<facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]
  'A structure which contains the position being held by the lender on both the facility and
  loan contract levels. This position information is from the message sender\'s viewpoint as
  of the date of the associated notice.'

<exceptionFlag> xsd:boolean </exceptionFlag> [0..1]
  'A flag which can be set by the message sender in order to signify an exceptional
  business event.'

<comments> xsd:string </comments> [0..1]
  'A free-form, manually entered field which will be used by users directly for
  additional information.'
```

Start Choice [0..1]

```
<loanContractSummary> LoanContractSummary </loanContractSummary> [1]
  'A basic set of fields used to uniquely identify the loan contract.'

  <lcSummary> LcSummary </lcSummary> [1]
    'A basic set of fields used to uniquely identify a letter of credit.'
```

End Choice

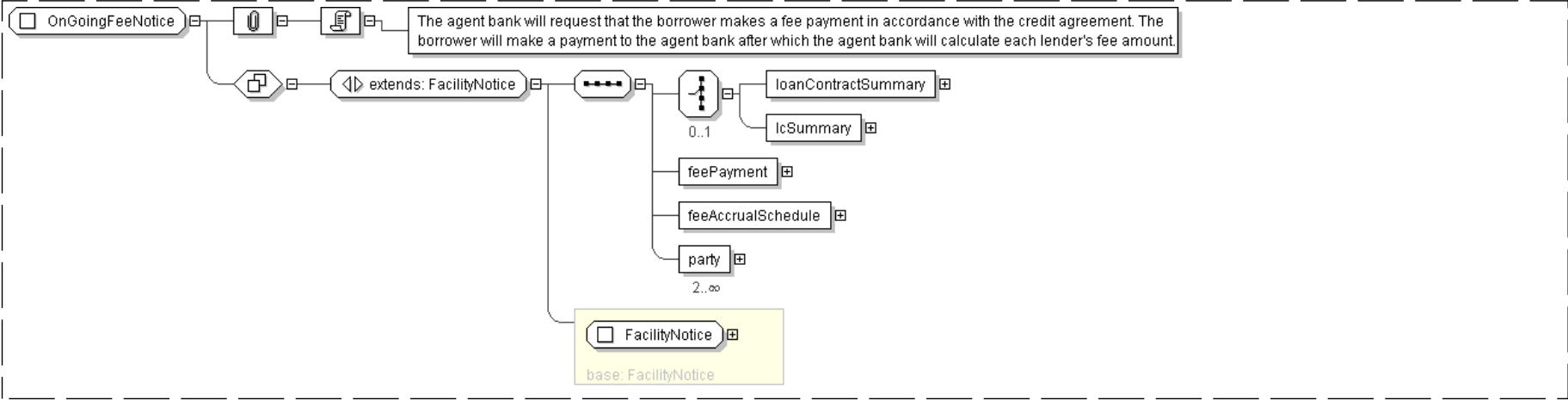
```
<feePayment> OnGoingFeePayment </feePayment> [1]
  'A representation of the on-going fee payment.'

<feeAccrualSchedule> FeeAccrualSchedule </feeAccrualSchedule> [1]
  'The details of the underlying elements that effect the calculation of a fee accrual.'

<party> Party </party> [2..*]
  'The parties involved with the associated transaction.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OnGoingFeeNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:choice minOccurs="0">
          <xsd:element name="loanContractSummary" type="LoanContractSummary"/>
          <xsd:element name="lcSummary" type="LcSummary"/>
        </xsd:choice>
        <xsd:element name="feePayment" type="OnGoingFeePayment"/>
        <xsd:element name="feeAccrualSchedule" type="FeeAccrualSchedule"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: OnGoingFeePayment

Super-types:	<a href="#">PaymentBase</a> < <b>OnGoingFeePayment</b> (by extension)
Sub-types:	None

Name	OnGoingFeePayment
Used by (from the same schema document)	Complex Type <a href="#">OnGoingFeeNotice</a>
Abstract	no
Documentation	The details of a payment made by the borrower to the agent bank related to a given on-going facility fee.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <feeType> OnGoingFeeTypeEnum </feeType> [1]
  'Describes the type of the on-going fee.'

  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'

  <endDate> xsd:date </endDate> [1]
```

'Date on which this period ends.'

<feeDayBasis> DayCountFraction </feeDayBasis> [0..1]

'The day count basis for the fee calculation period.'

<paymentDate> xsd:date </paymentDate> [1]

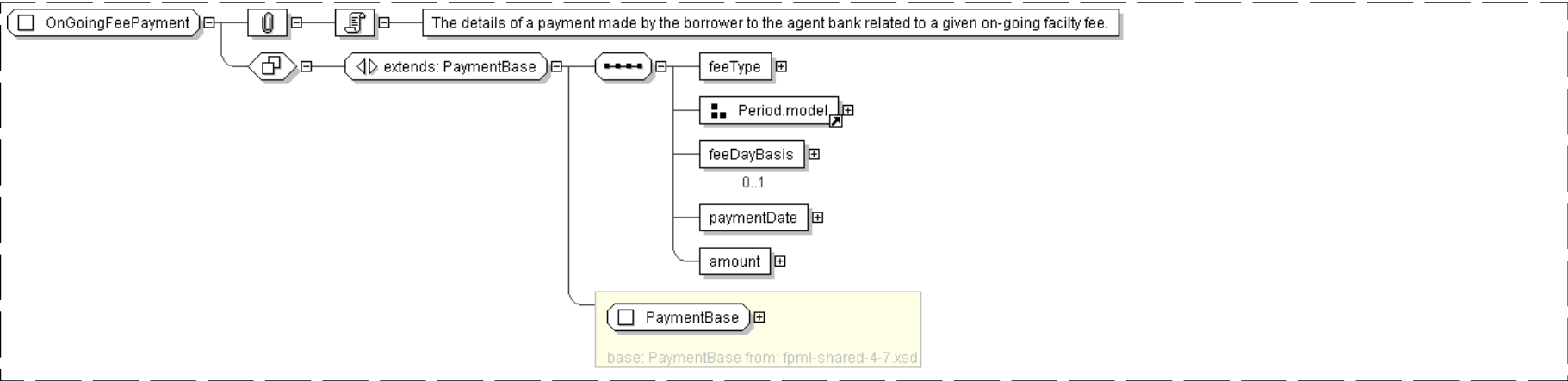
'The day on which the fee is paid by the borrower to the agent bank. This is an actual (adjusted) date.'

<amount> ParticipationAmount </amount> [1]

'The global amount describes the amount paid by the borrower to the agent bank whereas the share amount describes the amount paid by the agent bank to the lender.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="OnGoingFeePayment">
  <xsd:complexContent>
    <xsd:extension base=" PaymentBase ">
      <xsd:sequence>
        <xsd:element name="feeType" type=" OnGoingFeeTypeEnum "/>
        <xsd:group ref=" Period.model "/>
        <xsd:element name="feeDayBasis" type=" DayCountFraction " minOccurs="0"/>
        <xsd:element name="paymentDate" type=" xsd:date "/>
        <xsd:element name="amount" type=" ParticipationAmount "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **OnGoingFeeRateChange**

Super-types:	None
Sub-types:	None
Name	OnGoingFeeRateChange
Used by (from the same schema document)	Complex Type <a href="#">PricingChangeNotice</a> , Complex Type <a href="#">PricingChangeNotice</a>
Abstract	no

Documentation

The amount by which a specific type of facility fee rate has changed within a facility.

XML Instance Representation

```
<...>
<feeType> OnGoingFeeTypeEnum </feeType> [1]
'Describes the type of the on-going fee.'

<lcSummary> LcSummary </lcSummary> [0..1]
'A basic set of fields to identify an LC. Please note that the partyReference within
the contract identifier should refer to the Issuing Bank. This element is optional due to
the fact that there may not be any outstanding L/C\'s within the given facility, in which
case we can use this structure to publish the L/C price change.'

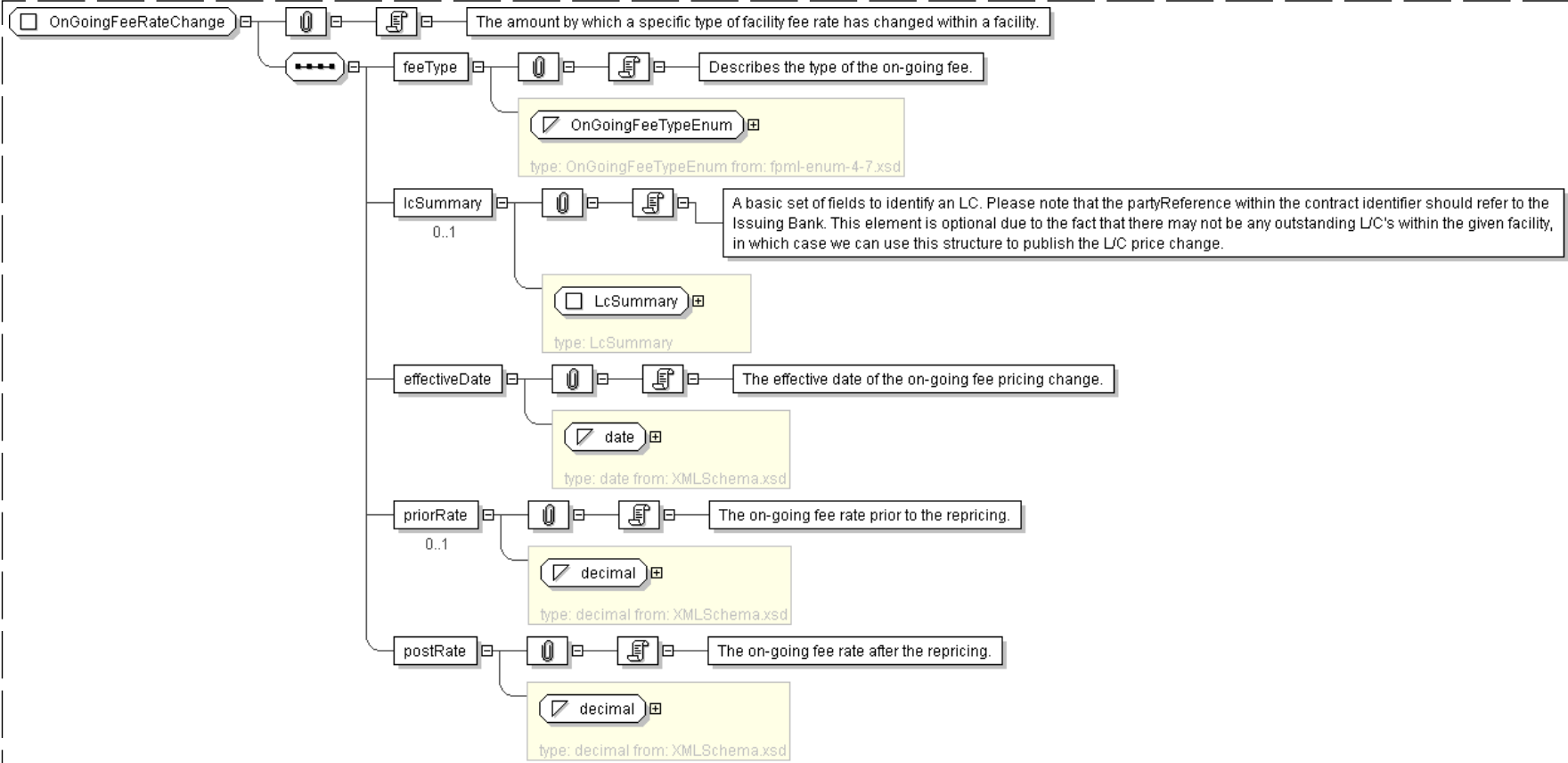
<effectiveDate> xsd:date </effectiveDate> [1]
'The effective date of the on-going fee pricing change.'

<priorRate> xsd:decimal </priorRate> [0..1]
'The on-going fee rate prior to the repricing.'

<postRate> xsd:decimal </postRate> [1]
'The on-going fee rate after the repricing.'

</...>
```

Diagram



XML Schema Documentation

Schema Component Representation

```
<xsd:complexType name="OnGoingFeeRateChange">
  <xsd:sequence>
    <xsd:element name="feeType" type=" OnGoingFeeTypeEnum " />
    <xsd:element name="lcSummary" type=" LcSummary " minOccurs="0" />
    <xsd:element name="effectiveDate" type=" xsd:date " />
    <xsd:element name="priorRate" type=" xsd:decimal " minOccurs="0" />
    <xsd:element name="postRate" type=" xsd:decimal " />
  </xsd:sequence>
</xsd:complexType>
```

top

Complex Type: OneOffFeeNotice

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>OneOffFeeNotice</b> (by extension)
Sub-types:	None
Name	OneOffFeeNotice
Abstract	no
Documentation	This defines a notification of a one-off fee being paid at either the loan contract or facility levels.

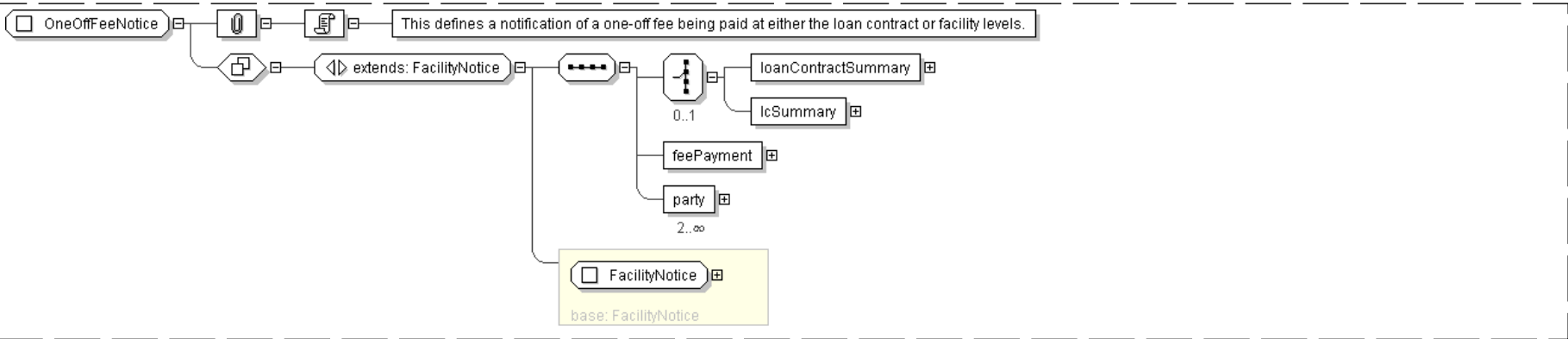
XML Instance Representation

<... version=" xsd:token (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1] 'Indicate which version of the FpML Schema an FpML message adheres to.' " expectedBuild=" xsd:positiveInteger [0..1] 'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.' " actualBuild="5 [0..1] 'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.' "> <header> NotificationMessageHeader </header> [1] <validation> Validation </validation> [0..*] <noticeDate> xsd:date </noticeDate> [1] 'The date on which the notice was generated.'  <eventId> EventId </eventId> [0..1] 'The identifier that defines the business event which requires the creation of a notice.'  <agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1] 'A reference to the agent bank for the given deal.'  <borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1] 'A reference to the borrower against the associated loan contract(s).' <lenderPartyReference> PartyReference </lenderPartyReference> [0..1] 'A reference to the lender(s) associated with the associated loan contract(s).'
--



<code>&lt;dealSummary&gt; <u>DealSummary</u> &lt;/dealSummary&gt; [1]</code>	'A data structure which contains the identifying characteristics of the given deal.'
<code>&lt;facilitySummary&gt; <u>FacilitySummary</u> &lt;/facilitySummary&gt; [1]</code>	'A data structure which contains the identifying characteristics of the given facility.'
<code>&lt;facilityCommitmentPosition&gt; <u>FacilityCommitmentPosition</u> &lt;/facilityCommitmentPosition&gt; [0..1]</code>	'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender\'s viewpoint as of the date of the associated notice.'
<code>&lt;exceptionFlag&gt; <u>xsd:boolean</u> &lt;/exceptionFlag&gt; [0..1]</code>	'A flag which can be set by the message sender in order to signify an exceptional business event.'
<code>&lt;comments&gt; <u>xsd:string</u> &lt;/comments&gt; [0..1]</code>	'A free-form, manually entered field which will be used by users directly for additional information.'
Start <u>Choice</u> [0..1]	
<code>&lt;loanContractSummary&gt; <u>LoanContractSummary</u> &lt;/loanContractSummary&gt; [1]</code>	'A basic set of fields used to uniquely identify the loan contract.'
<code>&lt;lcSummary&gt; <u>LcSummary</u> &lt;/lcSummary&gt; [1]</code>	'A basic set of fields used to uniquely identify a letter of credit.'
End <u>Choice</u>	
<code>&lt;feePayment&gt; <u>OneOffFeePayment</u> &lt;/feePayment&gt; [1]</code>	'A representation of the one-off payment.'
<code>&lt;party&gt; <u>Party</u> &lt;/party&gt; [2..*]</code>	'The parties involved with the associated transaction.'
<code>&lt;/...&gt;</code>	

Diagram



Schema Component Representation

```
<xsd:complexType name="OneOffFeeNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:choice minOccurs="0">
          <xsd:element name="loanContractSummary" type="LoanContractSummary"/>
          <xsd:element name="lcSummary" type="LcSummary"/>
        </xsd:choice>
        <xsd:element name="feePayment" type="OneOffFeePayment"/>
        <xsd:element name="party" type="Party"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```

    </xsd:choice>
    <xsd:element name="feePayment" type=" OneOffFeePayment " />
    <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

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Complex Type: **OneOffFeePayment**

Super-types:	<a href="#">PaymentBase</a> < <b>OneOffFeePayment</b> (by extension)
Sub-types:	None

Name	OneOffFeePayment
Used by (from the same schema document)	Complex Type <a href="#">OneOffFeeNotice</a>
Abstract	no
Documentation	The details of a payment made by the borrower to the agent bank related to a given one-off facility or loan contract fee.

XML Instance Representation

```

<...
id=" xsd:ID [0..1]">
  <feeType> OneOffFeeTypeEnum </feeType> [1]
  'Describes the type of the one-off fee.'

  <effectiveDate> xsd:date </effectiveDate> [1]
  'The date on which the fee is due. It is an actual (adjusted) date.'

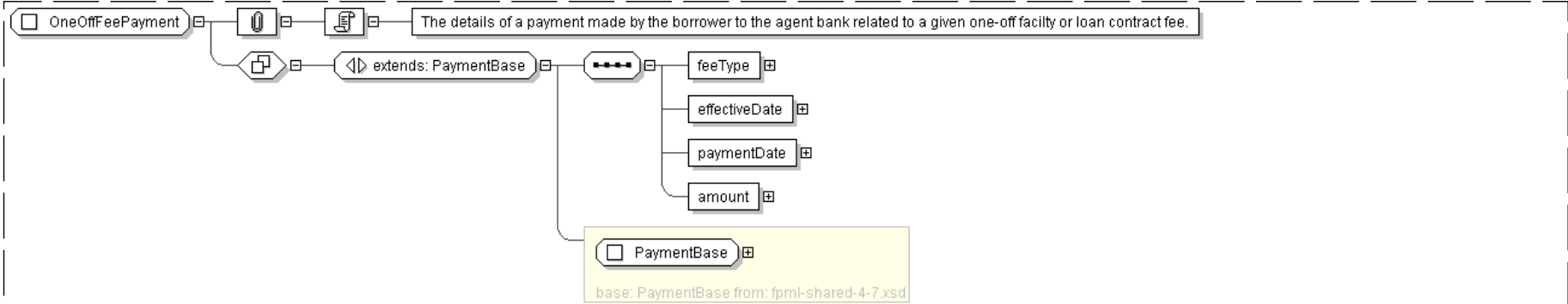
  <paymentDate> xsd:date </paymentDate> [1]
  'The date on which the fee is paid by the borrower to the agent bank. This is an
  actual (adjusted) date.'

  <amount> ParticipationAmount </amount> [1]
  'The global amount describes the amount paid by the borrower to the agent bank whereas
  the share amount describes the amount paid by the agent bank to the lender.'

</...>

```

Diagram



Schema Component Representation

```

<xsd:complexType name="OneOffFeePayment">
  <xsd:complexContent>
    <xsd:extension base=" PaymentBase ">

```

```
<xsd:sequence>
  <xsd:element name="feeType" type=" OneOffFeeTypeEnum " />
  <xsd:element name="effectiveDate" type=" xsd:date " />
  <xsd:element name="paymentDate" type=" xsd:date " />
  <xsd:element name="amount" type=" ParticipationAmount " />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ParticipationAmount**

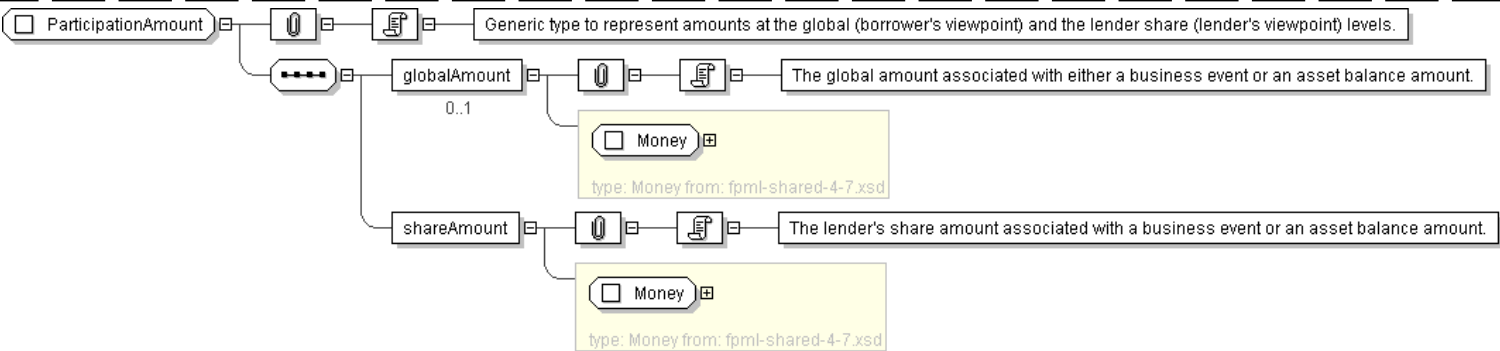
Super-types:	None
Sub-types:	None
Name	ParticipationAmount
Used by (from the same schema document)	Complex Type <a href="#">FacilityCommitmentPosition</a> , Complex Type <a href="#">FacilityCommitmentPosition</a> , Complex Type <a href="#">FacilityRepayment</a> , Complex Type <a href="#">FeeAccrualPeriod</a> , Complex Type <a href="#">InterestPayment</a> , Complex Type <a href="#">InterestRatePeriod</a> , Complex Type <a href="#">LcBalanceNotice</a> , Complex Type <a href="#">LcBalanceNotice</a> , Complex Type <a href="#">LcBalanceNotice</a> , Complex Type <a href="#">LcPosition</a> , Complex Type <a href="#">LcPosition</a> , Complex Type <a href="#">LcTerminationNotice</a> , Complex Type <a href="#">LenderPositionPeriod</a> , Complex Type <a href="#">LoanContract</a> , Complex Type <a href="#">LoanContractPosition</a> , Complex Type <a href="#">LoanContractPosition</a> , Complex Type <a href="#">LoanContractRepayment</a> , Complex Type <a href="#">LoanContractSummary</a> , Complex Type <a href="#">OneOffFeePayment</a> , Complex Type <a href="#">OnGoingFeePayment</a>
Abstract	no
Documentation	Generic type to represent amounts at the global (borrower's viewpoint) and the lender share (lender's viewpoint) levels.

XML Instance Representation

```
<...>
<globalAmount> Money </globalAmount> [0..1]
'The global amount associated with either a business event or an asset balance amount.'

<shareAmount> Money </shareAmount> [1]
'The lender\'s share amount associated with a business event or an asset balance amount.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ParticipationAmount">
  <xsd:sequence>
    <xsd:element name="globalAmount" type=" Money " minOccurs="0"/>
    <xsd:element name="shareAmount" type=" Money " />
  </xsd:sequence>
</xsd:complexType>
```

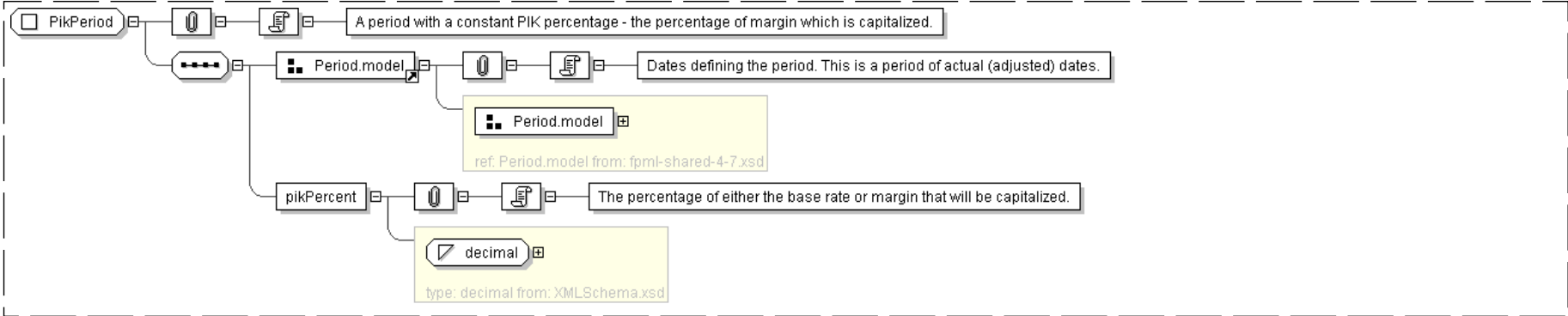
Complex Type: **PikPeriod**

Super-types:	None
Sub-types:	None
Name	PikPeriod
Used by (from the same schema document)	Complex Type <a href="#">InterestAccrualSchedule</a>
Abstract	no
Documentation	A period with a constant PIK percentage - the percentage of margin which is capitalized.

XML Instance Representation

```
<...>  
  <startDate> xsd:date </startDate> [1]  
    'Date on which this period begins.'  
  
  <endDate> xsd:date </endDate> [1]  
    'Date on which this period ends.'  
  
  <pikPercent> xsd:decimal </pikPercent> [1]  
    'The percentage of either the base rate or margin that will be capitalized.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PikPeriod">  
  <xsd:sequence>  
    <xsd:group ref=" Period.model " />  
    <xsd:element name="pikPercent" type=" xsd:decimal " />  
  </xsd:sequence>  
</xsd:complexType>
```

Complex Type: **PricingChangeNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>PricingChangeNotice</b> (by extension)
--------------	---

Sub-types:	None
Name	PricingChangeNotice
Abstract	no
Documentation	A notice used to notify changes in the pricing of a given facility.

XML Instance Representation

<... version=" <a href="#">xsd:token</a> (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1]  'Indicate which version of the FpML Schema an FpML message adheres to.'
" expectedBuild=" <a href="#">xsd:positiveInteger</a> [0..1]  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
" actualBuild="5 [0..1]  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
"> <header> <a href="#">NotificationMessageHeader</a> </header> [1] <validation> <a href="#">Validation</a> </validation> [0..*] <noticeDate> <a href="#">xsd:date</a> </noticeDate> [1]  'The date on which the notice was generated.'
<eventId> <a href="#">EventId</a> </eventId> [0..1]  'The identifier that defines the business event which requires the creation of a notice.'
<agentBankPartyReference> <a href="#">PartyReference</a> </agentBankPartyReference> [0..1]  'A reference to the agent bank for the given deal.'
<borrowerPartyReference> <a href="#">PartyReference</a> </borrowerPartyReference> [0..1]  'A reference to the borrower against the associated loan contract(s).'
<lenderPartyReference> <a href="#">PartyReference</a> </lenderPartyReference> [0..1]  'A reference to the lender(s) associated with the associated loan contract(s).'
<dealSummary> <a href="#">DealSummary</a> </dealSummary> [1]  'A data structure which contains the identifying characteristics of the given deal.'
<facilitySummary> <a href="#">FacilitySummary</a> </facilitySummary> [1]  'A data structure which contains the identifying characteristics of the given facility.'
<facilityCommitmentPosition> <a href="#">FacilityCommitmentPosition</a> </facilityCommitmentPosition> [0..1]  'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender\'s viewpoint as of the date of the associated notice.'
<exceptionFlag> <a href="#">xsd:boolean</a> </exceptionFlag> [0..1]  'A flag which can be set by the message sender in order to signify an exceptional business event.'
<comments> <a href="#">xsd:string</a> </comments> [0..1]  'A free-form, manually entered field which will be used by users directly for

additional information.'

<pricingChangeReason> PricingChangeReason </pricingChangeReason> [0..1]

'Denotes the reason a facility has had to be re-priced.'

Start Choice [1]

<marginRateChange> MarginRateChange </marginRateChange> [1..\*]

'The amount by which the margin rate has changed within a facility.'

<onGoingFeeRateChange> OnGoingFeeRateChange </onGoingFeeRateChange> [0..\*]

''

<onGoingFeeRateChange> OnGoingFeeRateChange </onGoingFeeRateChange> [1..\*]

''

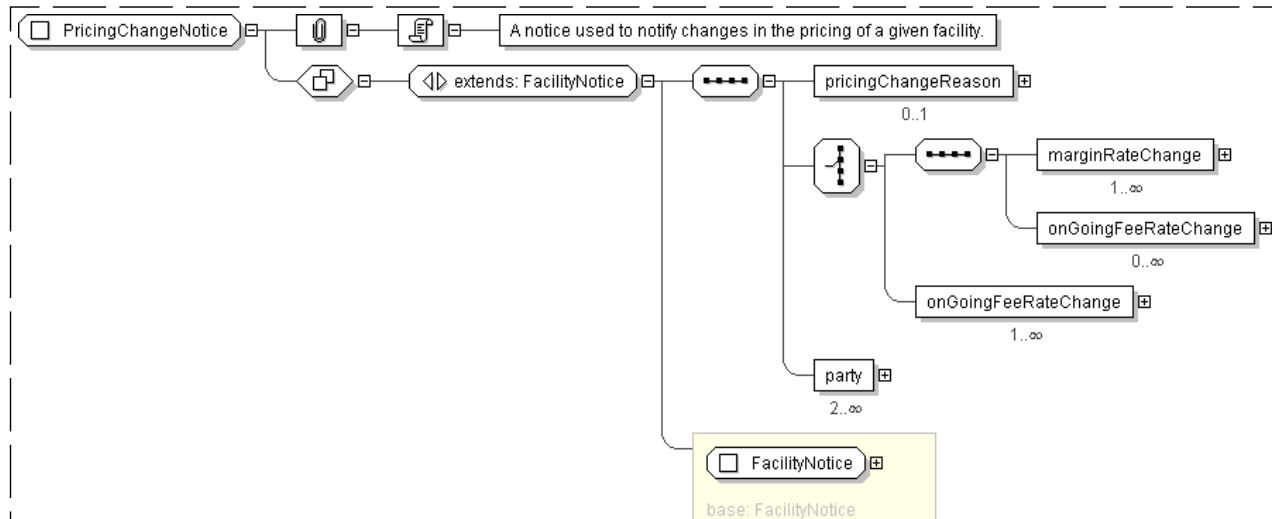
End Choice

<party> Party </party> [2..\*]

'The parties involved with the associated transaction.'

</...>

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="PricingChangeNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:element name="pricingChangeReason" type="PricingChangeReason" minOccurs="0"/>
        <xsd:choice>
          <xsd:sequence>
            <xsd:element name="marginRateChange" type="MarginRateChange" maxOccurs="unbounded"/>
            <xsd:element name="onGoingFeeRateChange" type="OnGoingFeeRateChange"
              minOccurs="0" maxOccurs="unbounded"/>
          </xsd:sequence>
          <xsd:element name="onGoingFeeRateChange" type="OnGoingFeeRateChange" maxOccurs="unbounded"/>
        </xsd:choice>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

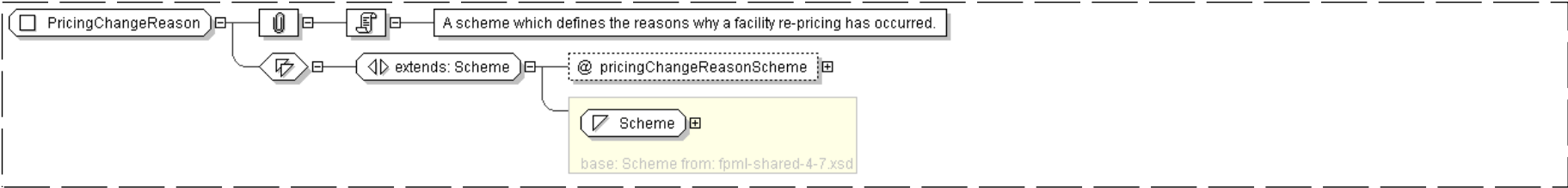
Complex Type: PricingChangeReason

Super-types:	<a href="#">Scheme</a> < <b>PricingChangeReason</b> (by extension)
Sub-types:	None
Name	PricingChangeReason
Used by (from the same schema document)	Complex Type <a href="#">PricingChangeNotice</a>
Abstract	no
Documentation	A scheme which defines the reasons why a facility re-pricing has occurred.

XML Instance Representation

```
<...  
  pricingChangeReasonScheme=" xsd:anyURI [1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingChangeReason">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="pricingChangeReasonScheme" type=" xsd:anyURI " use="required"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: RatePeriod

Super-types:	None
Sub-types:	None
Name	RatePeriod
Used by (from the same schema document)	Complex Type <a href="#">FeeAccrualSchedule</a>
Abstract	no
Documentation	Defines a generic 'rate' for a defined period.

XML Instance Representation

```
<...>  
  <startDate> xsd:date </startDate> [1]  
  'Date on which this period begins.'  
  <endDate> xsd:date </endDate> [1]
```

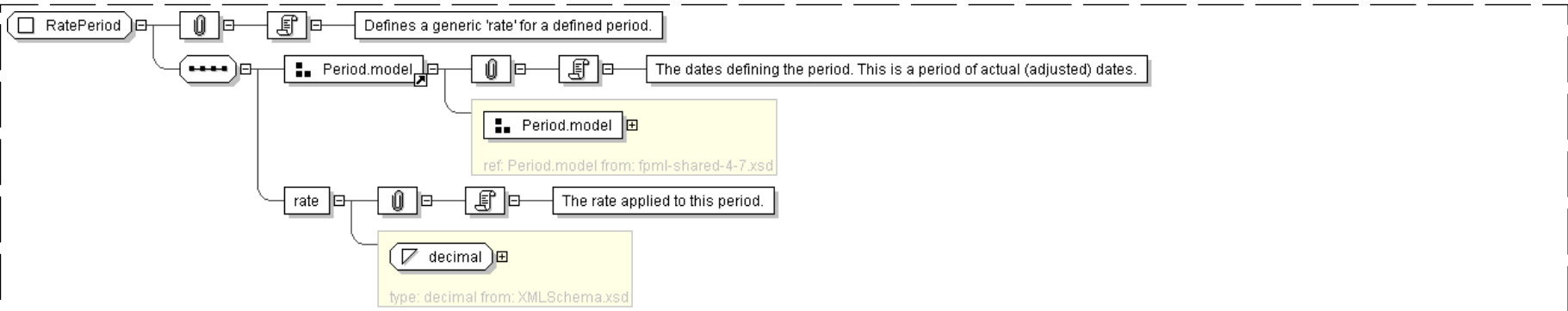
```
'Date on which this period ends.'
```

```
<rate> xsd:decimal </rate> [1]
```

```
'The rate applied to this period.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RatePeriod">
  <xsd:sequence>
    <xsd:group ref="Period.model" />
    <xsd:element name="rate" type="xsd:decimal" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Repayment**

Super-types:	None
Sub-types:	None

Name	Repayment
Used by (from the same schema document)	Complex Type <a href="#">MaturingLoanContracts</a> , Complex Type <a href="#">RepaymentNotice</a>
Abstract	no
Documentation	Representation of a repayment made by the borrower. This structure represents the repayment at the facility and loan contract levels.

XML Instance Representation

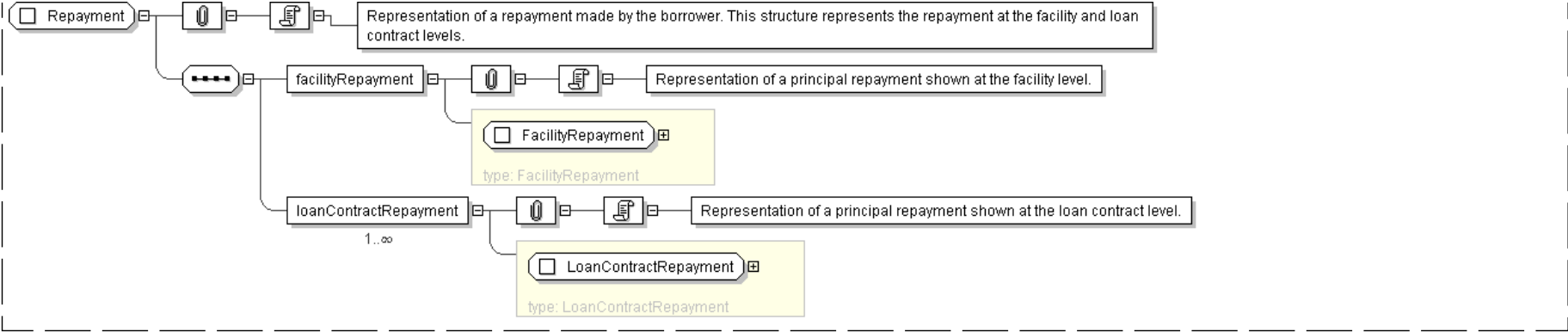
```
<...>
  <facilityRepayment> FacilityRepayment </facilityRepayment> [1]
  'Representation of a principal repayment shown at the facility level.'
```

```
  <loanContractRepayment> LoanContractRepayment </loanContractRepayment> [1..*]
  'Representation of a principal repayment shown at the loan contract level.'
```

```
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Repayment">
  <xsd:sequence>
    <xsd:element name="facilityRepayment" type=" FacilityRepayment " />
    <xsd:element name="loanContractRepayment" type=" LoanContractRepayment " maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **RepaymentNotice**

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>RepaymentNotice</b> (by extension)
Sub-types:	None

Name	RepaymentNotice
Abstract	no
Documentation	A notice describing a principal repayment to be made by the borrower.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <noticeDate> xsd:date </noticeDate> [1]
  'The date on which the notice was generated.'
```

<eventId> EventId </eventId> [0..1]  
'The identifier that defines the business event which requires the creation of a notice.'

<agentBankPartyReference> PartyReference </agentBankPartyReference> [0..1]  
'A reference to the agent bank for the given deal.'

<borrowerPartyReference> PartyReference </borrowerPartyReference> [0..1]  
'A reference to the borrower against the associated loan contract(s).'

<lenderPartyReference> PartyReference </lenderPartyReference> [0..1]  
'A reference to the lender(s) associated with the associated loan contract(s).'

<dealSummary> DealSummary </dealSummary> [1]  
'A data structure which contains the identifying characteristics of the given deal.'

<facilitySummary> FacilitySummary </facilitySummary> [1]  
'A data structure which contains the identifying characteristics of the given facility.'

<facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]  
'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender's viewpoint as of the date of the associated notice.'

<exceptionFlag> xsd:boolean </exceptionFlag> [0..1]  
'A flag which can be set by the message sender in order to signify an exceptional business event.'

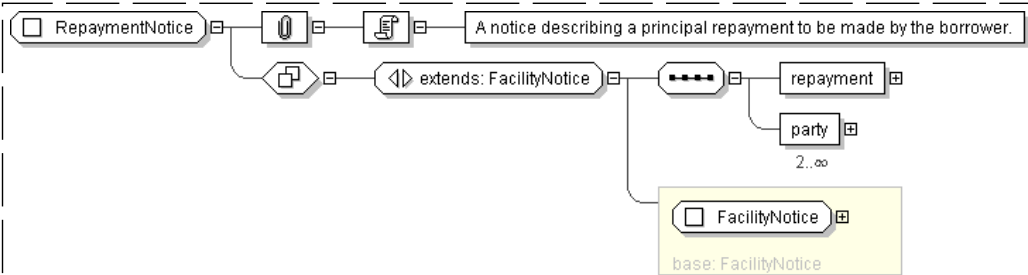
<comments> xsd:string </comments> [0..1]  
'A free-form, manually entered field which will be used by users directly for additional information.'

<repayment> Repayment </repayment> [1]  
'Representation of a repayment made by the borrower. This structure represents the repayment at the facility and loan contract levels.'

<party> Party </party> [2..\*]  
'The parties involved with the associated transaction.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="RepaymentNotice">
  <xsd:complexContent>
    <xsd:extension base="FacilityNotice">
      <xsd:sequence>
        <xsd:element name="repayment" type="Repayment"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: RolloverNotice

Super-types:	<a href="#">NotificationMessage</a> < <a href="#">FacilityNotice</a> (by extension) < <b>RolloverNotice</b> (by extension)
Sub-types:	None

Name	RolloverNotice
Abstract	no
Documentation	A rollover notice used for both simple as well as complex rollover situations.

XML Instance Representation

<... version=" <a href="#">xsd:token</a> (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1] 'Indicate which version of the FpML Schema an FpML message adheres to.'
" expectedBuild=" <a href="#">xsd:positiveInteger</a> [0..1] 'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
" actualBuild="5 [0..1] 'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
"> <header> <a href="#">NotificationMessageHeader</a> </header> [1] <validation> <a href="#">Validation</a> </validation> [0..*] <noticeDate> <a href="#">xsd:date</a> </noticeDate> [1] 'The date on which the notice was generated.'
<eventId> <a href="#">EventId</a> </eventId> [0..1] 'The identifier that defines the business event which requires the creation of a notice.'
<agentBankPartyReference> <a href="#">PartyReference</a> </agentBankPartyReference> [0..1] 'A reference to the agent bank for the given deal.'
<borrowerPartyReference> <a href="#">PartyReference</a> </borrowerPartyReference> [0..1] 'A reference to the borrower against the associated loan contract(s).'
<lenderPartyReference> <a href="#">PartyReference</a> </lenderPartyReference> [0..1] 'A reference to the lender(s) associated with the associated loan contract(s).'
<dealSummary> <a href="#">DealSummary</a> </dealSummary> [1] 'A data structure which contains the identifying characteristics of the given deal.'
<facilitySummary> <a href="#">FacilitySummary</a> </facilitySummary> [1] 'A data structure which contains the identifying characteristics of the given facility.'

```
<facilityCommitmentPosition> FacilityCommitmentPosition </facilityCommitmentPosition> [0..1]

'A structure which contains the position being held by the lender on both the facility and
loan contract levels. This position information is from the message sender\'s viewpoint as
of the date of the associated notice.'
```

```
<exceptionFlag> xsd:boolean </exceptionFlag> [0..1]

'A flag which can be set by the message sender in order to signify an exceptional
business event.'
```

```
<comments> xsd:string </comments> [0..1]

'A free-form, manually entered field which will be used by users directly for
additional information.'
```

```
<maturingLoanContracts> MaturingLoanContracts </maturingLoanContracts> [1]

'Details of all loan contracts due to mature and all corresponding interest payments to be
paid for the given rollover event.'
```

```
<newLoanContracts> NewLoanContracts </newLoanContracts> [1]

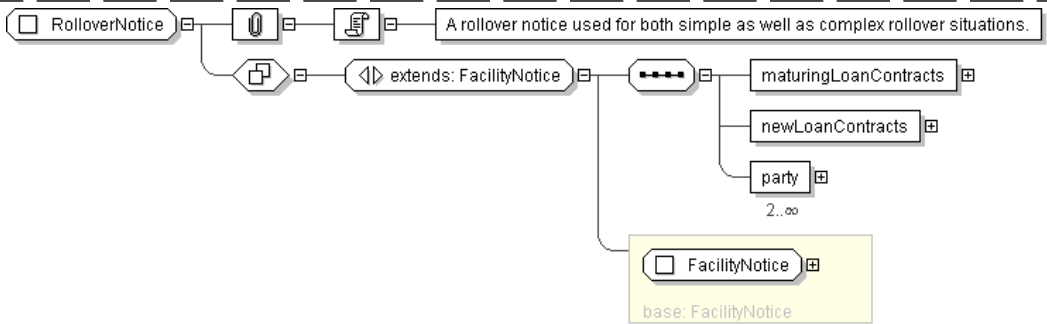
'A list of the new loan contracts to be created as a result of this rollover.'
```

```
<party> Party </party> [2..*]

'The parties involved with the associated transaction.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RolloverNotice">
  <xsd:complexContent>
    <xsd:extension base=" FacilityNotice ">
      <xsd:sequence>
        <xsd:element name="maturingLoanContracts" type=" MaturingLoanContracts "/>
        <xsd:element name="newLoanContracts" type=" NewLoanContracts "/>
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Model Group: **FacilityNoticeDetails.model**

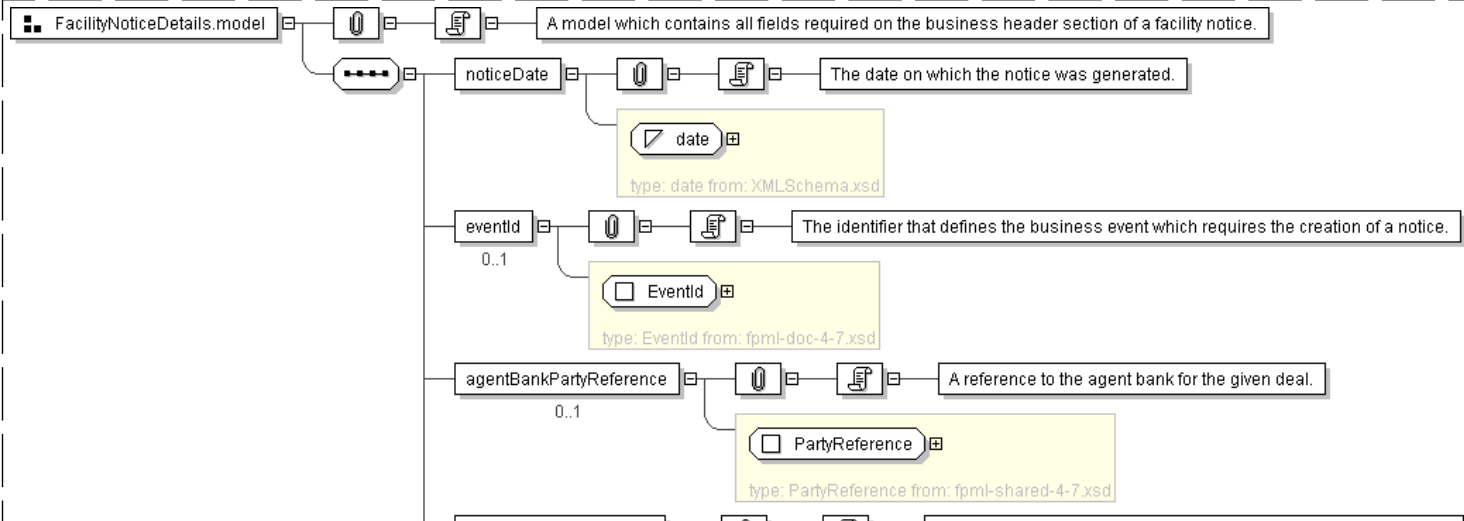
Name	FacilityNoticeDetails.model
------	-----------------------------

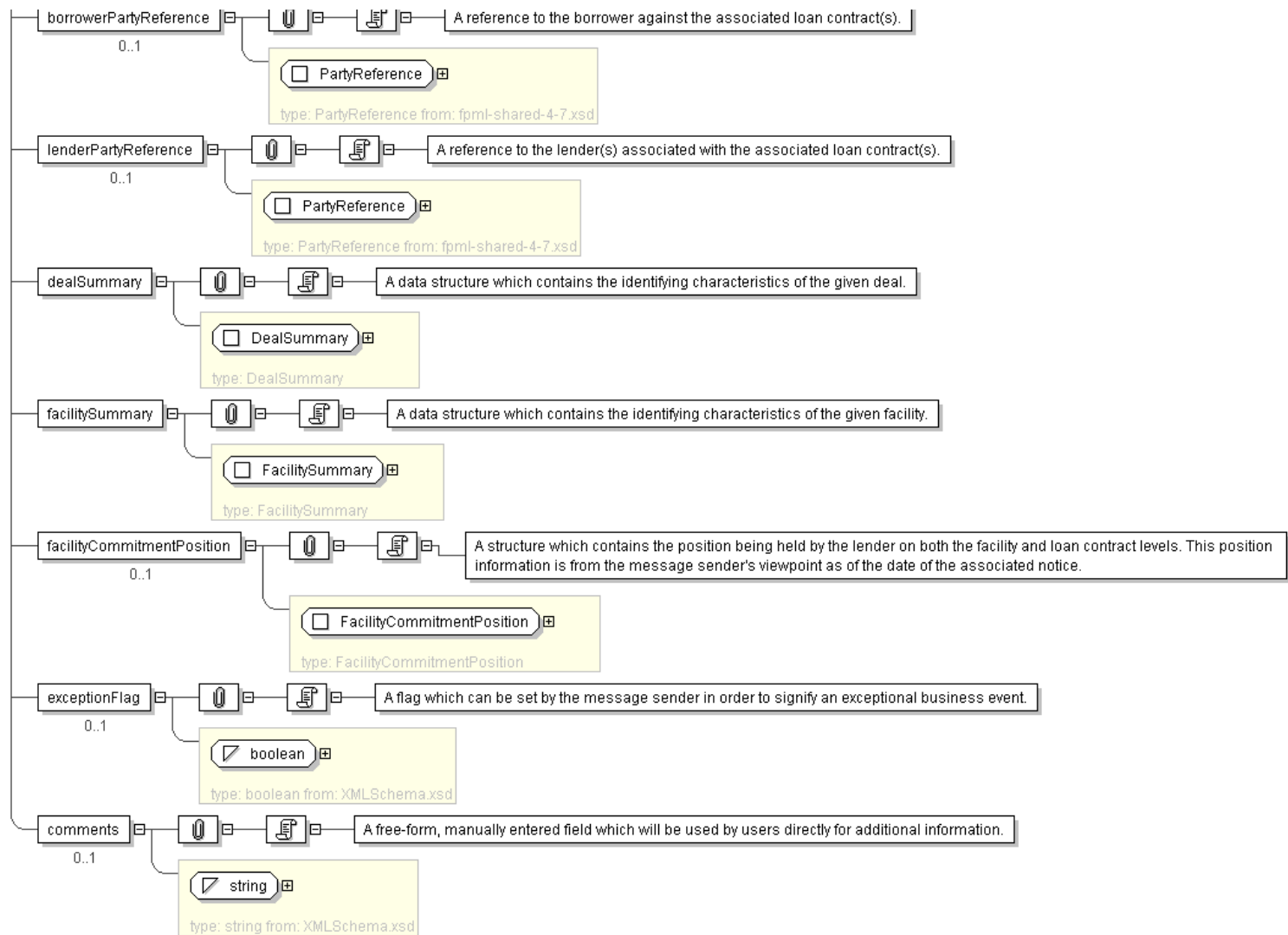
Used by (from the same schema document)	Complex Type <a href="#">FacilityNotice</a> , Complex Type <a href="#">LoanContractNotice</a>
Documentation	A model which contains all fields required on the business header section of a facility notice.

XML Instance Representation

<noticeDate> <a href="#">xsd:date</a> </noticeDate> [1]
'The date on which the notice was generated.'
<eventId> <a href="#">EventId</a> </eventId> [0..1]
'The identifier that defines the business event which requires the creation of a notice.'
<agentBankPartyReference> <a href="#">PartyReference</a> </agentBankPartyReference> [0..1]
'A reference to the agent bank for the given deal.'
<borrowerPartyReference> <a href="#">PartyReference</a> </borrowerPartyReference> [0..1]
'A reference to the borrower against the associated loan contract(s).'
<lenderPartyReference> <a href="#">PartyReference</a> </lenderPartyReference> [0..1]
'A reference to the lender(s) associated with the associated loan contract(s).'
<dealSummary> <a href="#">DealSummary</a> </dealSummary> [1]
'A data structure which contains the identifying characteristics of the given deal.'
<facilitySummary> <a href="#">FacilitySummary</a> </facilitySummary> [1]
'A data structure which contains the identifying characteristics of the given facility.'
<facilityCommitmentPosition> <a href="#">FacilityCommitmentPosition</a> </facilityCommitmentPosition> [0..1]
'A structure which contains the position being held by the lender on both the facility and loan contract levels. This position information is from the message sender\'s viewpoint as of the date of the associated notice.'
<exceptionFlag> <a href="#">xsd:boolean</a> </exceptionFlag> [0..1]
'A flag which can be set by the message sender in order to signify an exceptional business event.'
<comments> <a href="#">xsd:string</a> </comments> [0..1]
'A free-form, manually entered field which will be used by users directly for additional information.'

Diagram





#### Schema Component Representation

```
<xsd:group name="FacilityNoticeDetails.model">
  <xsd:sequence>
    <xsd:element name="noticeDate" type="xsd:date" />
    <xsd:element name="eventId" type="EventId" minOccurs="0"/>
    <xsd:element name="agentBankPartyReference" type="PartyReference" minOccurs="0"/>
    <xsd:element name="borrowerPartyReference" type="PartyReference" minOccurs="0"/>
    <xsd:element name="lenderPartyReference" type="PartyReference" minOccurs="0"/>
    <xsd:element name="dealSummary" type="DealSummary" />
    <xsd:element name="facilitySummary" type="FacilitySummary" />
    <xsd:element name="facilityCommitmentPosition" type="FacilityCommitmentPosition"
      minOccurs="0"/>
    <xsd:element name="exceptionFlag" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="comments" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

Model Group: **InterestPaymentDetails.model**

Name	InterestPaymentDetails.model
Used by (from the same schema document)	Complex Type <a href="#">InterestPaymentNotice</a> , Complex Type <a href="#">MaturingLoanContract</a>
Documentation	A model which contains all fields required to describe an interest payment.

XML Instance Representation

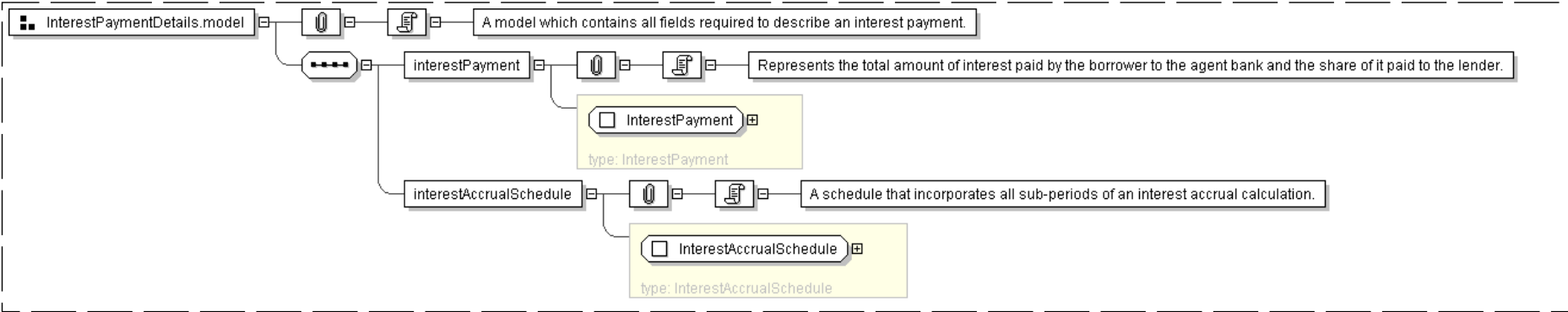
```
<interestPayment> InterestPayment </interestPayment> [1]
```

'Represents the total amount of interest paid by the borrower to the agent bank and the share of it paid to the lender.'

```
<interestAccrualSchedule> InterestAccrualSchedule </interestAccrualSchedule> [1]
```

'A schedule that incorporates all sub-periods of an interest accrual calculation.'

Diagram



Schema Component Representation

```
<xsd:group name="InterestPaymentDetails.model">
  <xsd:sequence>
    <xsd:element name="interestPayment" type="InterestPayment" />
    <xsd:element name="interestAccrualSchedule" type="InterestAccrualSchedule" />
  </xsd:sequence>
</xsd:group>
```

Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < <a href="#">AusAddress</a> (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... <b>country</b>="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <u>AusStates</u> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" <u>Address</u> "&gt; &lt;sequence&gt; &lt;element name="state" type=" <u>AusStates</u> "/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string "&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

- Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.
- All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.
- Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.
- Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.
- Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given



element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions) or [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-posttrade-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	http://www.w3.org/XML/1998/namespace
ecore	http://www.eclipse.org/emf/2002/Ecore
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	http://www.w3.org/2000/09/xmldsig#
xsd	http://www.w3.org/2001/XMLSchema

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-posttrade-4-7.xsd" />
  ...
</xsd:schema>
```

</xsd:schema>

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## Global Definitions

### Complex Type: NovationMatched

Super-types:	<a href="#">NovationNotificationMessage</a> < <b>NovationMatched</b> (by extension)
Sub-types:	None

Name	NovationMatched
Abstract	no

#### XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
  ">
    <header> NotificationMessageHeader </header> [1]
    <validation> Validation </validation> [0..*]
    <novation> Novation </novation> [1]
    <party> Party </party> [3..*]
  </...>
```

#### Diagram



Schema Component Representation

```
<xsd:complexType name="NovationMatched">
  <xsd:complexContent>
    <xsd:extension base="NovationNotificationMessage" />
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: TradeAlleged

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeAlleged</b> (by extension)
Sub-types:	None

Name	TradeAlleged
Abstract	no
Documentation	A type defining the content model for a message sent by a confirmation provider when it believes that one party has been tardy in providing its side of a transaction.

XML Instance Representation

```
<...
version="xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]"
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild="xsd:positiveInteger [0..1]"
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]"
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
```

*'An instance of a unique trade identifier.'*

```
<bestFitTradeId> TradeIdentifier </bestFitTradeId> [0..*]
```

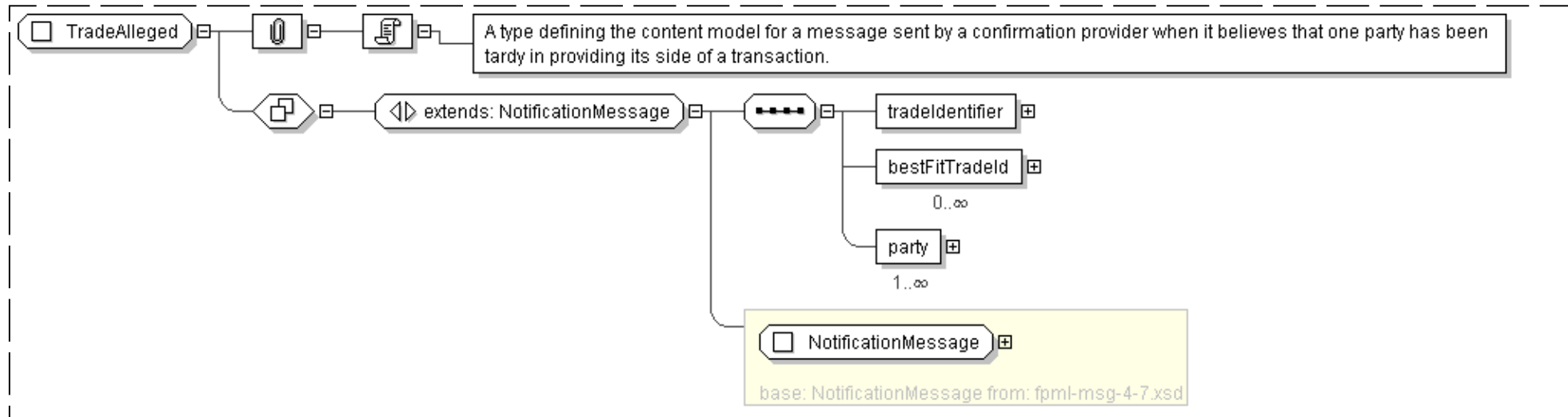
*'A trade identifier for a transaction that closely resembles the characteristics of the trade under consideration.'*

```
<party> Party </party> [1..*]
```

*'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'*

```
</...>
```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeAlleged">
  <xsd:complexContent>
    <xsd:extension base="NotificationMessage">
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type="TradeIdentifier"/>
        <xsd:element name="bestFitTradeId" type="TradeIdentifier" minOccurs="0"
          maxOccurs="unbounded"/>
        <xsd:element name="party" type="Party" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </complexContent>
</complexType>

```

```
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **TradeMatched**

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeMatched</b> (by extension)
Sub-types:	None

Name	TradeMatched
Abstract	no
Documentation	A type defining the content model for a message indicating that a correlation has been made between two transactions.

XML Instance Representation

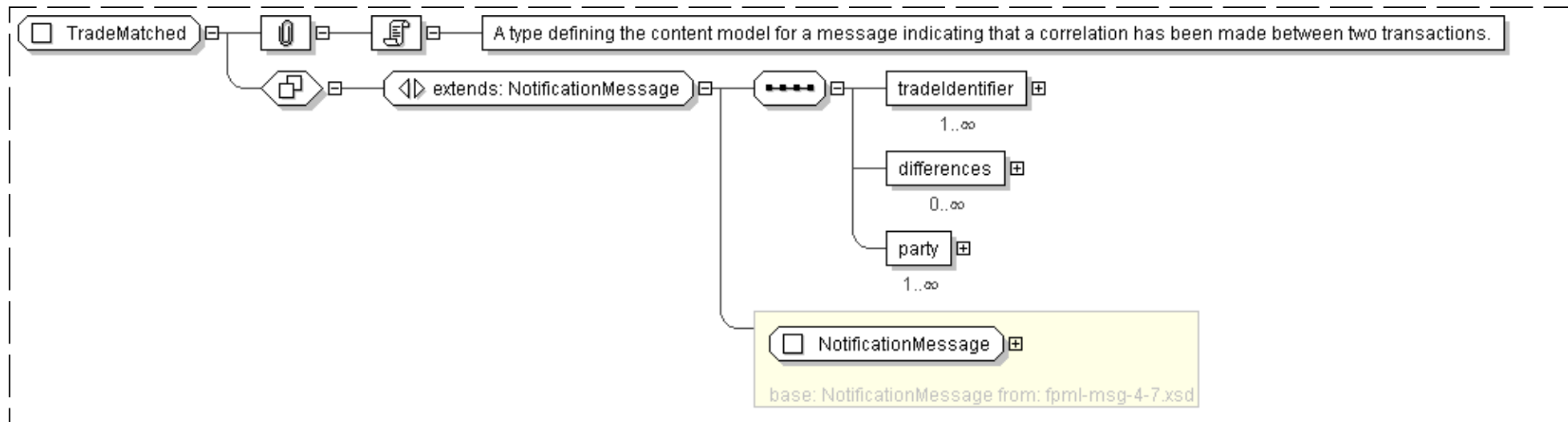
```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1..*]
  'An instance of a unique trade identifier.'

  <differences> TradeDifference </differences> [0..*]
  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time
```

to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeMatched">
  <xsd:complexContent>
    <xsd:extension base="NotificationMessage">
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type="TradeIdentifier" maxOccurs="unbounded"/>
        <xsd:element name="differences" type="TradeDifference" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="party" type="Party" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
  
```

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## Complex Type: TradeMismatched

Super-types: [NotificationMessage](#) < **TradeMismatched** (by extension)

Sub-types: None

Name	TradeMismatched
Abstract	no
Documentation	A type defining the content model of a message generated when a trade is determined to be mismatched.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

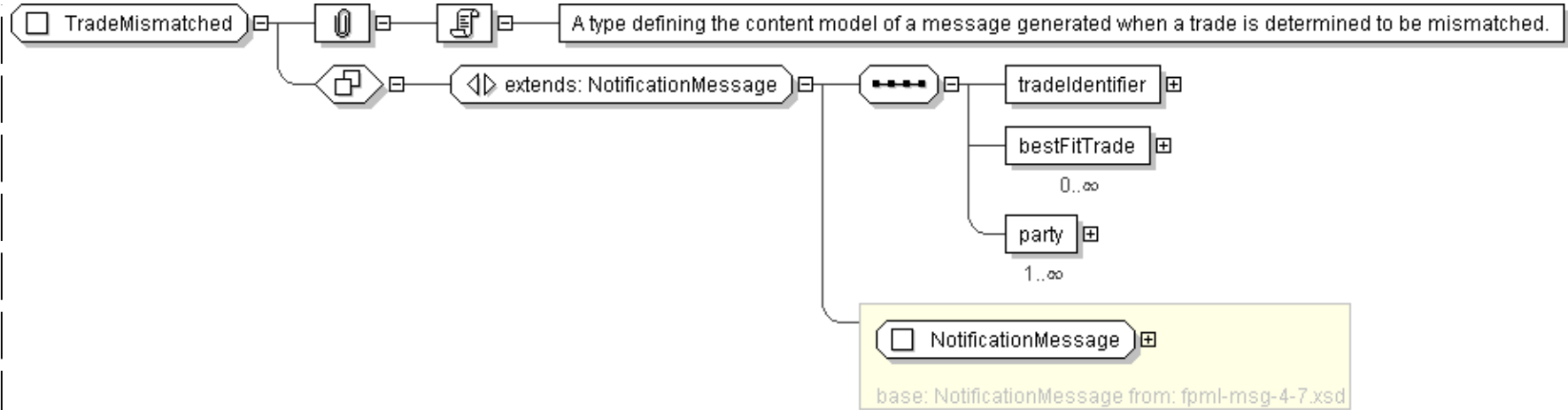
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
  'An instance of a unique trade identifier.'

  <bestFitTrade> BestFitTrade </bestFitTrade> [0..*]
  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.''

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="TradeMismatched">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type=" TradeIdentifier " />
        <xsd:element name="bestFitTrade" type=" BestFitTrade " minOccurs="0" maxOccurs="unbounded" />
        <xsd:element name="party" type=" Party " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: TradeUnmatched

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeUnmatched</b> (by extension)
Sub-types:	None

Name	TradeUnmatched
Abstract	no
Documentation	A type defining the content model of a message generated when a trade is determined to be unmatched.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

```
"
expectedBuild=" xsd:positiveInteger [0..1]
```

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

```
"
actualBuild="5 [0..1]
```

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

```
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
```

**'An instance of a unique trade identifier.'**

```
<bestFitTradeId> TradeIdentifier </bestFitTradeId> [0..*]
```

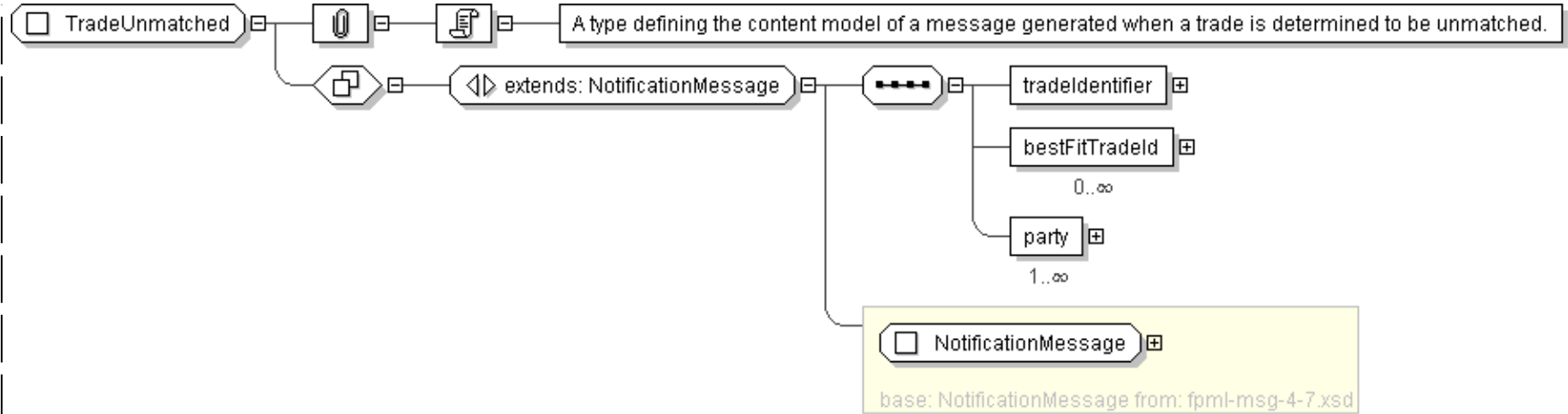
**'A trade identifier for a transaction that closely resembles the characteristics of the trade under consideration.'**

```
<party> Party </party> [1..*]
```

**'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'**

```
</...>
```

## Diagram



Schema Component Representation

```
<xsd:complexType name="TradeUnmatched">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type=" TradeIdentifier "/>
        <xsd:element name="bestFitTradeId" type=" TradeIdentifier " minOccurs="0"
          maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:      [Address](#) < AusAddress (by extension)

Sub-types:      • [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
------	------------

Abstract

no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address ">
<sequence>
<element name="state" type=" AusStates "/>
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}"/>
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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Generated by [<oxygen/> XML Editor](#) using a modified version of [xs3p](#) that adds schema diagrams and chunking support.

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-riskdef-4-7.xsd</a></li><li>◦ <a href="#">fpml-cd-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-riskdef-4-7.xsd"/>
  <xsd:include schemaLocation="fpml-cd-4-7.xsd"/>
  ...
</xsd:schema>
```

[top](#)

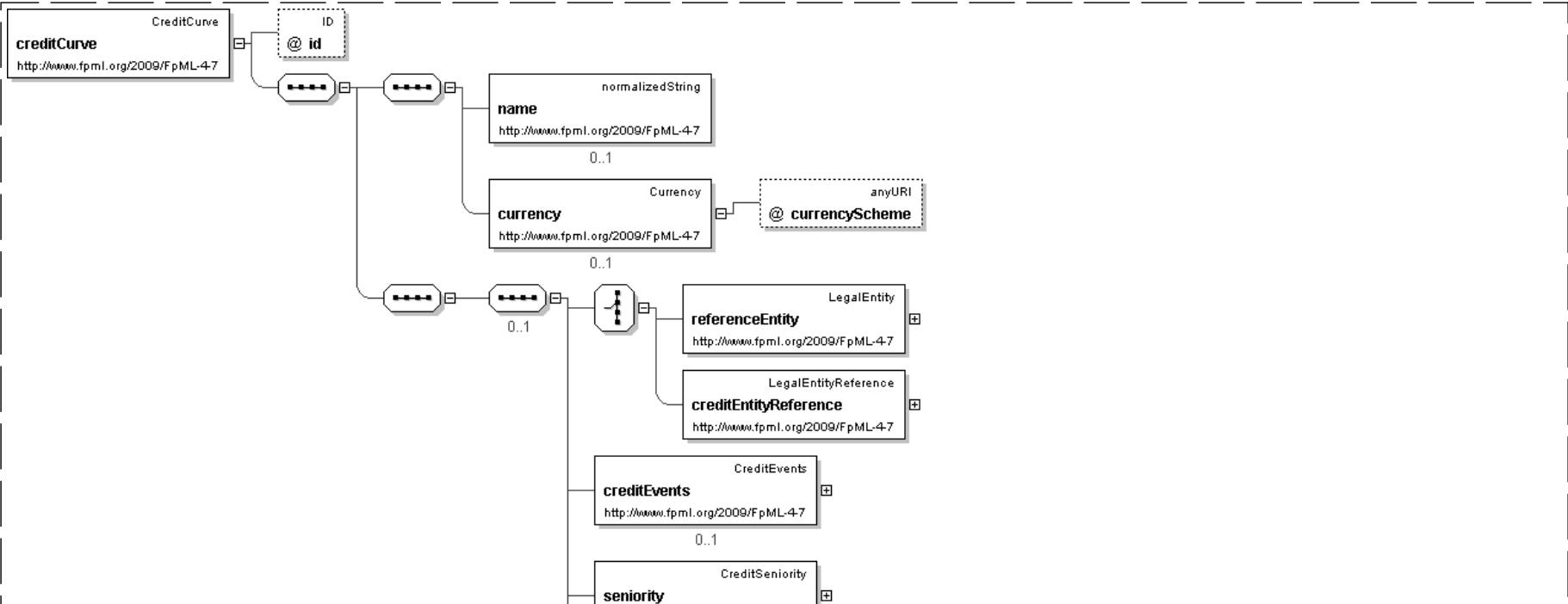
Global Declarations

Element: **creditCurve**

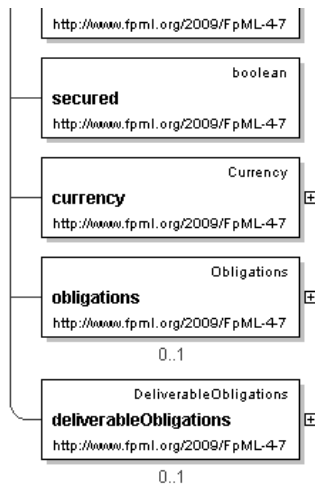
- This element can be used wherever the following element is referenced:
  - [pricingStructure](#)

Name	creditCurve
Type	<a href="#">CreditCurve</a>
Nilable	no
Abstract	no

Logical Diagram







### XML Instance Representation

```

<creditCurve
  id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'

  <currency> Currency </currency> [0..1]
  'The currency that the structure is expressed in (this is relevant mostly for the Interes
  Rates asset class).'

  Start Group: CreditCurveCharacteristics.model [0..1]
  Start Choice [1]
    <referenceEntity> LegalEntity </referenceEntity> [1]
    'The entity for which this is defined.'

    <creditEntityReference> LegalEntityReference </creditEntityReference> [1]
    'An XML reference a credit entity defined elsewhere in the document.'

  End Choice

  <creditEvents> CreditEvents </creditEvents> [0..1]
  'The material credit event.'

  <seniority> CreditSeniority </seniority> [1]
  'The level of seniority of the deliverable obligation.'

  <secured> xsd:boolean </secured> [1]
  'Whether the deliverable obligation is secured or unsecured.'

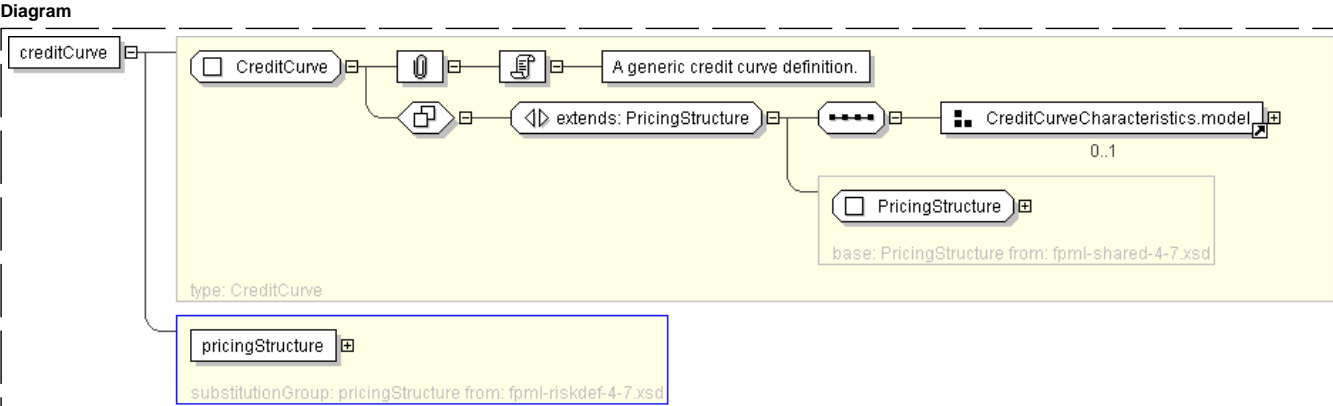
  <currency> Currency </currency> [1]
  'The currency of denomination of the deliverable obligation.'

  <obligations> Obligations </obligations> [0..1]
  'The underlying obligations of the reference entity on which you are buying or
  selling protection'

  <deliverableObligations> DeliverableObligations </deliverableObligations> [0..1]
  'What sort of obligation may be delivered in the event of the credit event. ISDA 2003
  Term: Obligation Category/Deliverable Obligation Category'

```

```
| End Group: CreditCurveCharacteristics.model
|</creditCurve>
```



Schema Component Representation

```
<xsd:element name="creditCurve" type="CreditCurve" substitutionGroup="pricingStructure"/>
```

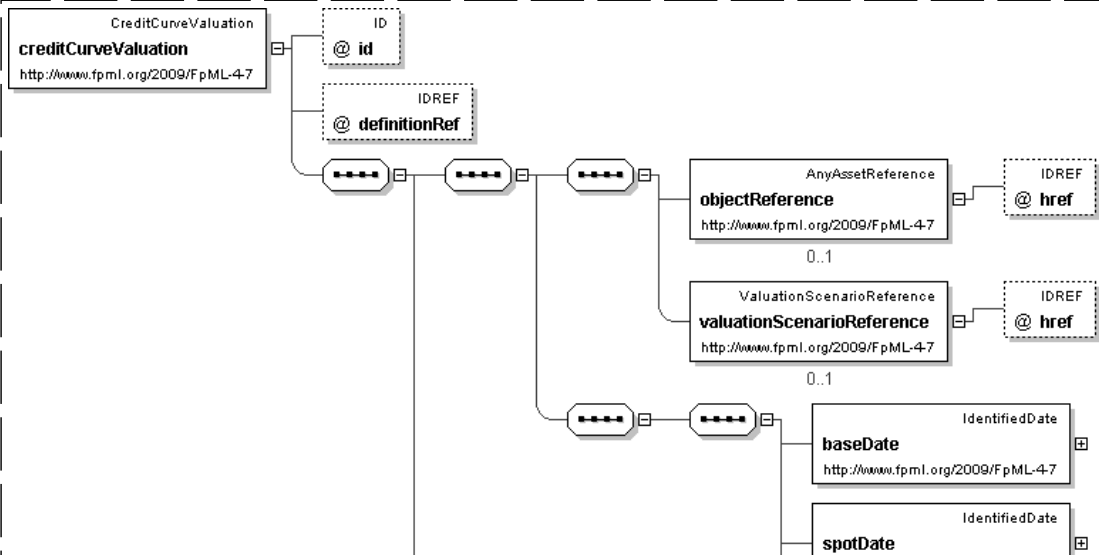
[top](#)

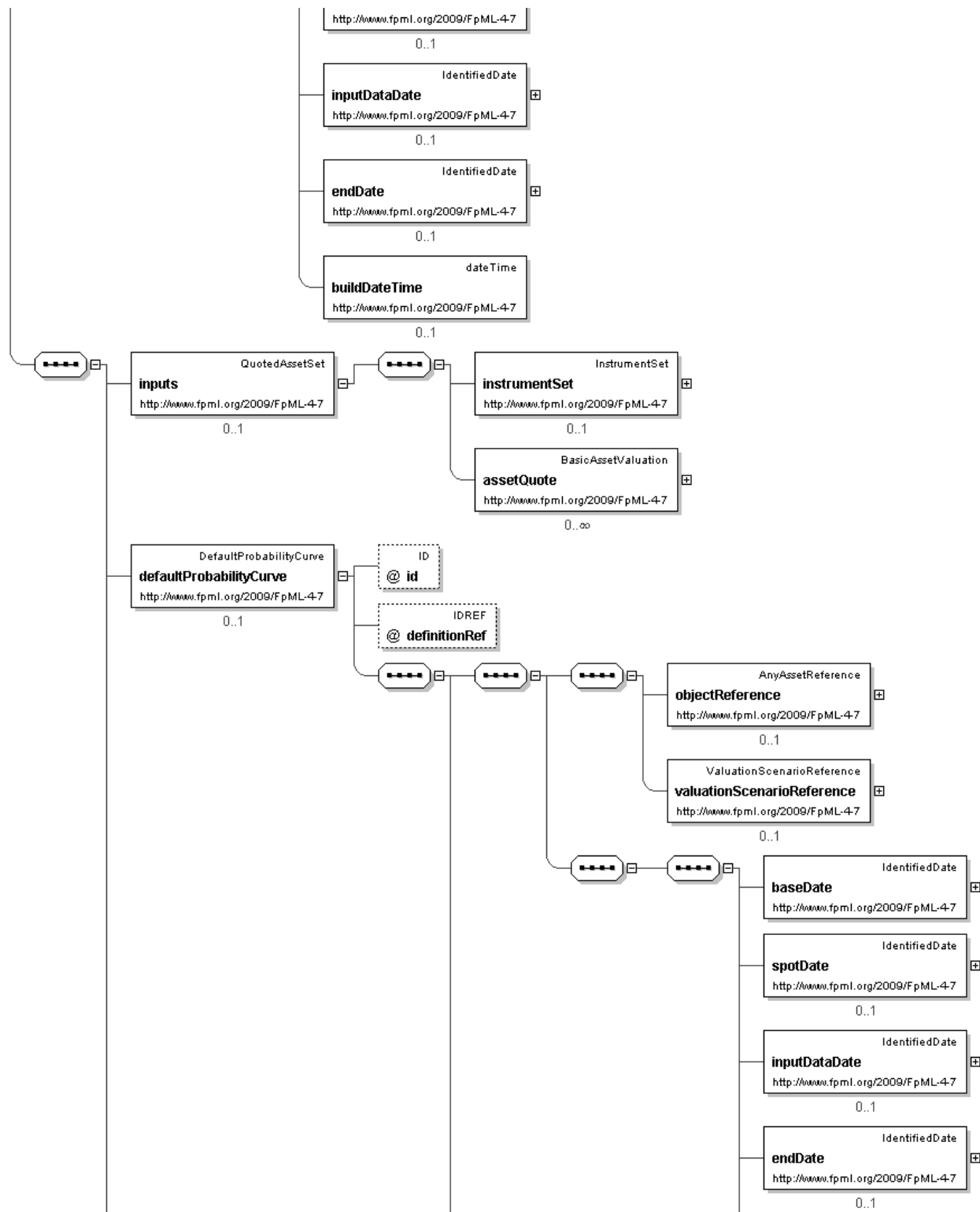
Element: **creditCurveValuation**

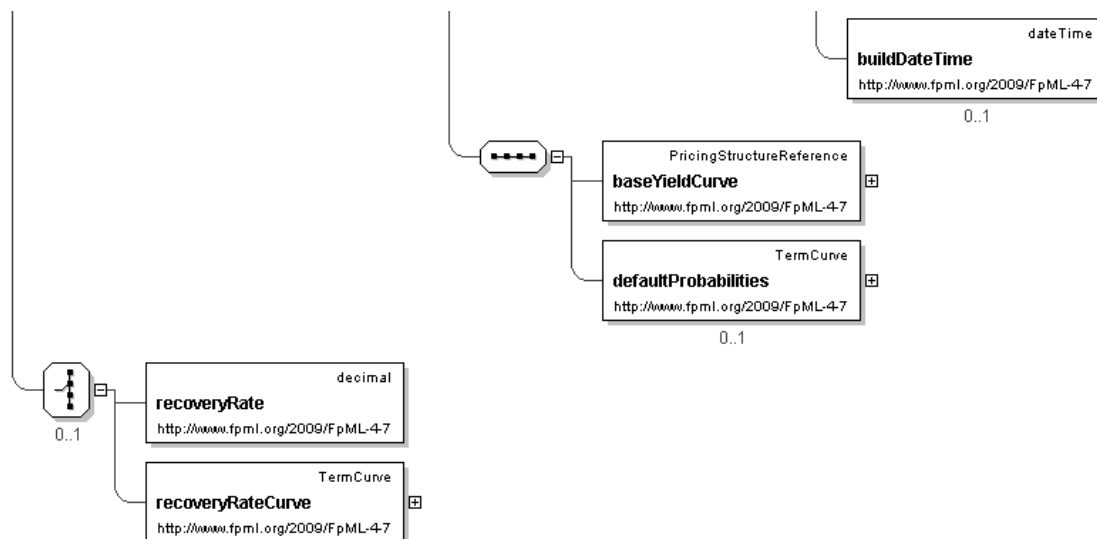
- This element can be used wherever the following element is referenced:
  - [pricingStructureValuation](#)

Name	creditCurveValuation
Type	<a href="#">CreditCurveValuation</a>
Niltable	no
Abstract	no

Logical Diagram







### XML Instance Representation

```

<creditCurveValuation
id=" xsd:ID [0..1]"
definitionRef=" xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'

">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'

```

```
'A curve of default probabilities.'
```

```
Start Group: RecoveryRate.model [0..1]
```

```
'A recovery rate value or curve.'
```

```
Start Choice [1]
```

```
  <recoveryRate> xsd:decimal </recoveryRate> [1]
```

```
  'A single recovery rate, to be used for all terms.'
```

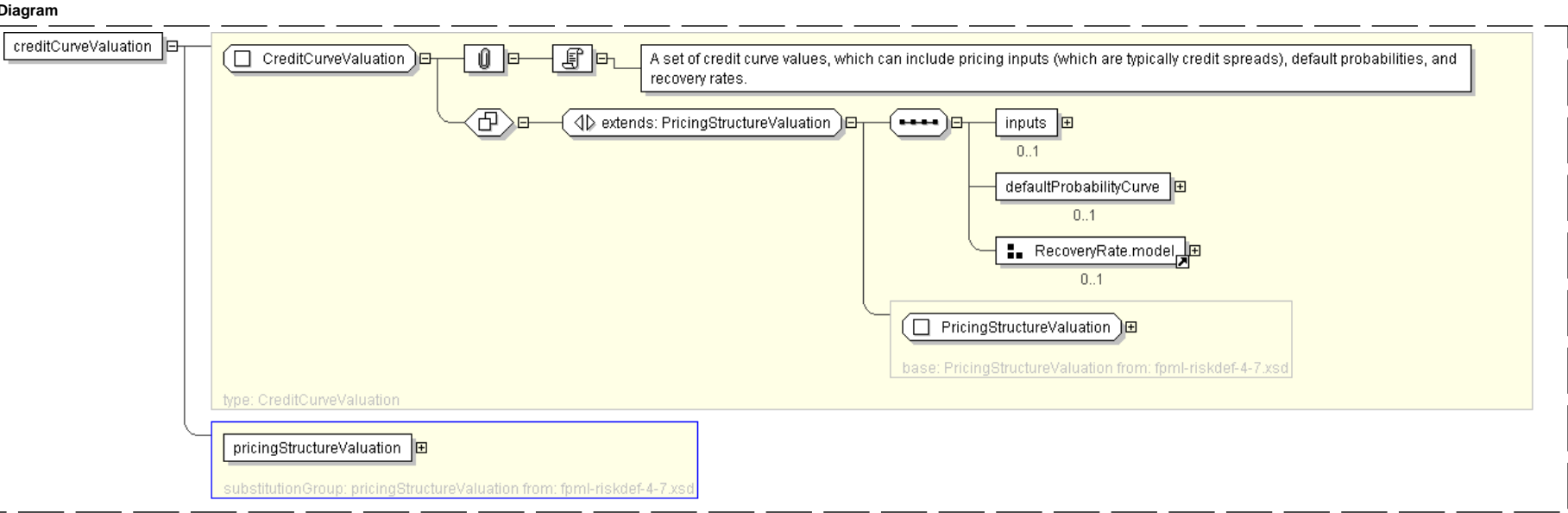
```
  <recoveryRateCurve> TermCurve </recoveryRateCurve> [1]
```

```
  'A curve of recovery rates, allowing different terms to have different recovery rates.'
```

```
End Choice
```

```
End Group: RecoveryRate.model
```

```
</creditCurveValuation>
```



Schema Component Representation

```
<xsd:element name="creditCurveValuation" type="CreditCurveValuation" substitutionGroup="pricingStructureValuation" />
```

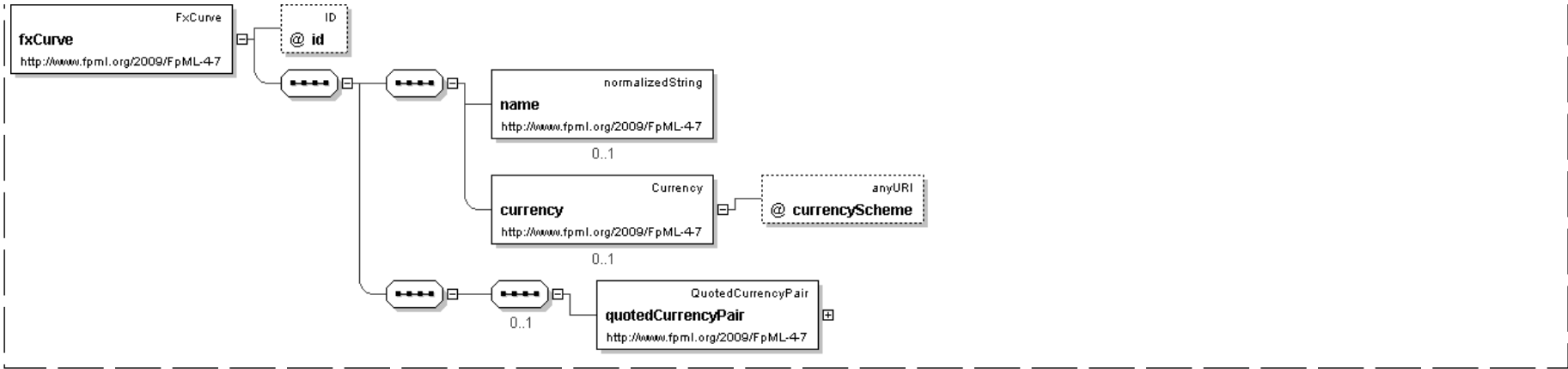
[top](#)

Element: **fxCurve**

- This element can be used wherever the following element is referenced:
  - [pricingStructure](#)

Name	fxCurve
Type	<a href="#">FxCurve</a>
Nilable	no
Abstract	no

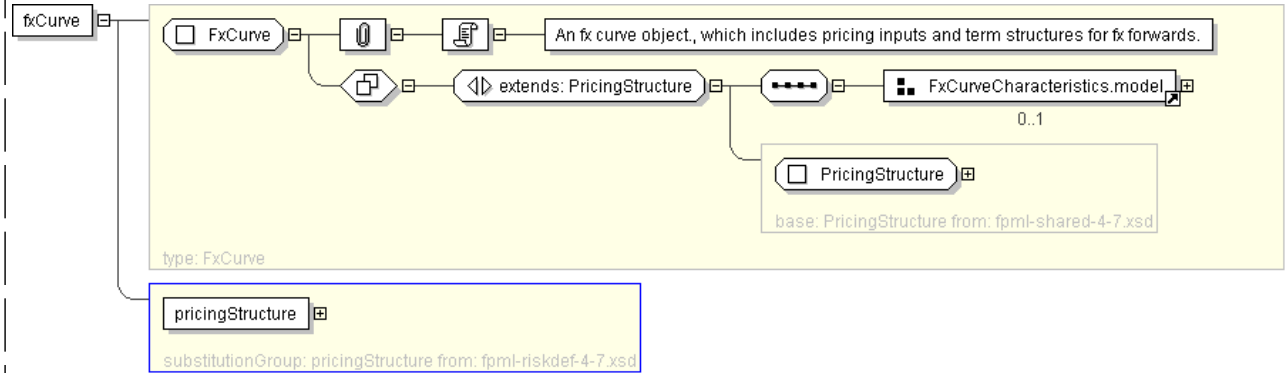
Logical Diagram



XML Instance Representation

```
<fxCurve
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'
  <currency> Currency </currency> [0..1]
  'The currency that the structure is expressed in (this is relevant mostly for the Interes
  Rates asset class).'
  Start Group: FxCurveCharacteristics.model [0..1]
  <quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
  'Defines the two currencies for an FX trade and the quotation relationship between the
  two currencies.'
  End Group: FxCurveCharacteristics.model
</fxCurve>
```

Diagram



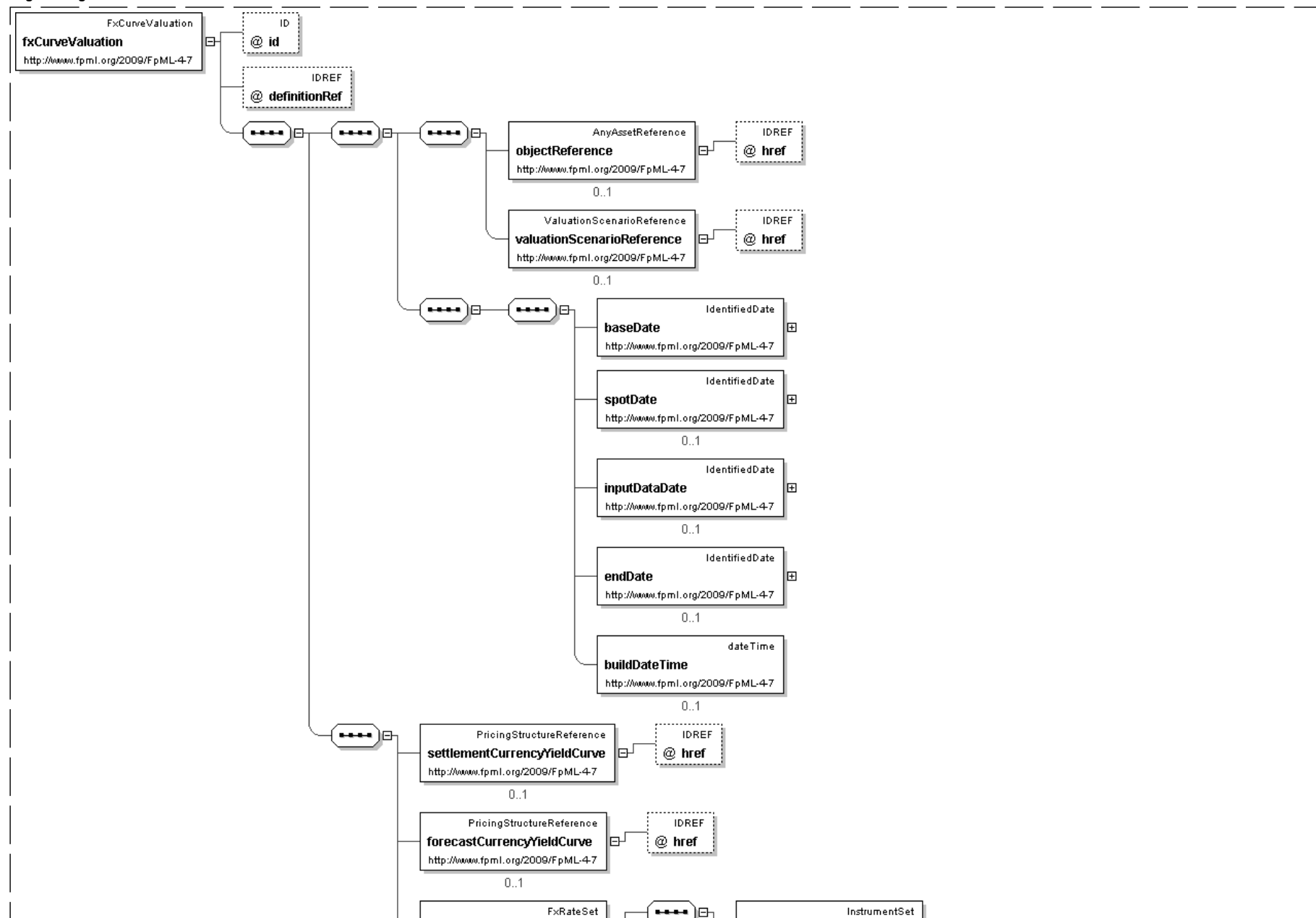
Schema Component Representation

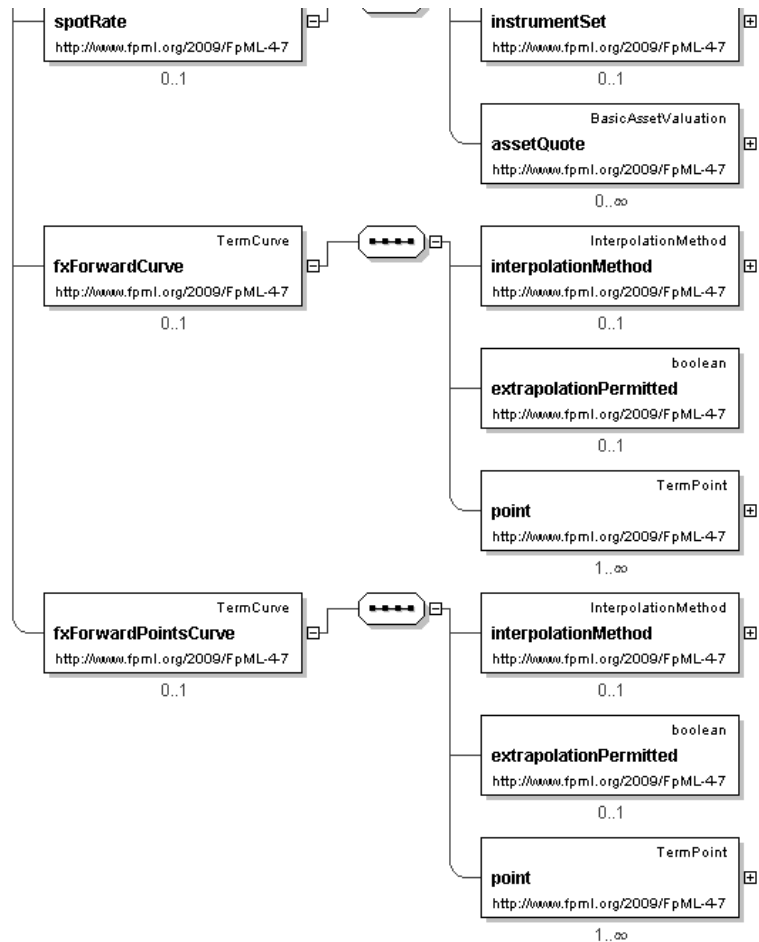
```
<xsd:element name="fxCurve" type=" FxCurve " substitutionGroup="pricingStructure"/>
```

- This element can be used wherever the following element is referenced:
  - [pricingStructureValuation](#)

<b>Name</b>	fxCurveValuation
<b>Type</b>	<a href="#">FxCurveValuation</a>
<b>Nullable</b>	no
<b>Abstract</b>	no

## Logical Diagram





## XML Instance Representation

```
<fxCurveValuation
  id="xsd:ID [0..1]"
  definitionRef="xsd:IDREF [0..1]"
```

'An optional reference to the scenario that this valuation applies to.'



```
<objectReference> AnyAssetReference </objectReference> [0..1]
```

'A reference to the asset or pricing structure that this values.'

```
<valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
```

'A reference to the valuation scenario used to calculate this valuation. If the Valuation occurs within a ValuationSet, this value is optional and is defaulted from the ValuationSet. If this value occurs in both places, the lower level value (i.e. the one here) overrides that in the higher (i.e. ValuationSet).'

```
<baseDate> IdentifiedDate </baseDate> [1]
```

'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'

```
<spotDate> IdentifiedDate </spotDate> [0..1]
```

'The spot settlement date for which the structure applies, normally 0-2 days after the



base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".

```
<inputDataDate> IdentifiedDate </inputDataDate> [0..1]
```

'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'

```
<endDate> IdentifiedDate </endDate> [0..1]
```

'The last date for which data is supplied in this pricing input.'

```
<buildDateTime> xsd:dateTime </buildDateTime> [0..1]
```

'The date and time when the pricing input was generated.'

```
<settlementCurrencyYieldCurve> PricingStructureReference </settlementCurrencyYieldCurve> [0..1]
```

```
<forecastCurrencyYieldCurve> PricingStructureReference </forecastCurrencyYieldCurve> [0..1]
```

```
<spotRate> FxRateSet </spotRate> [0..1]
```

```
<fxForwardCurve> TermCurve </fxForwardCurve> [0..1]
```

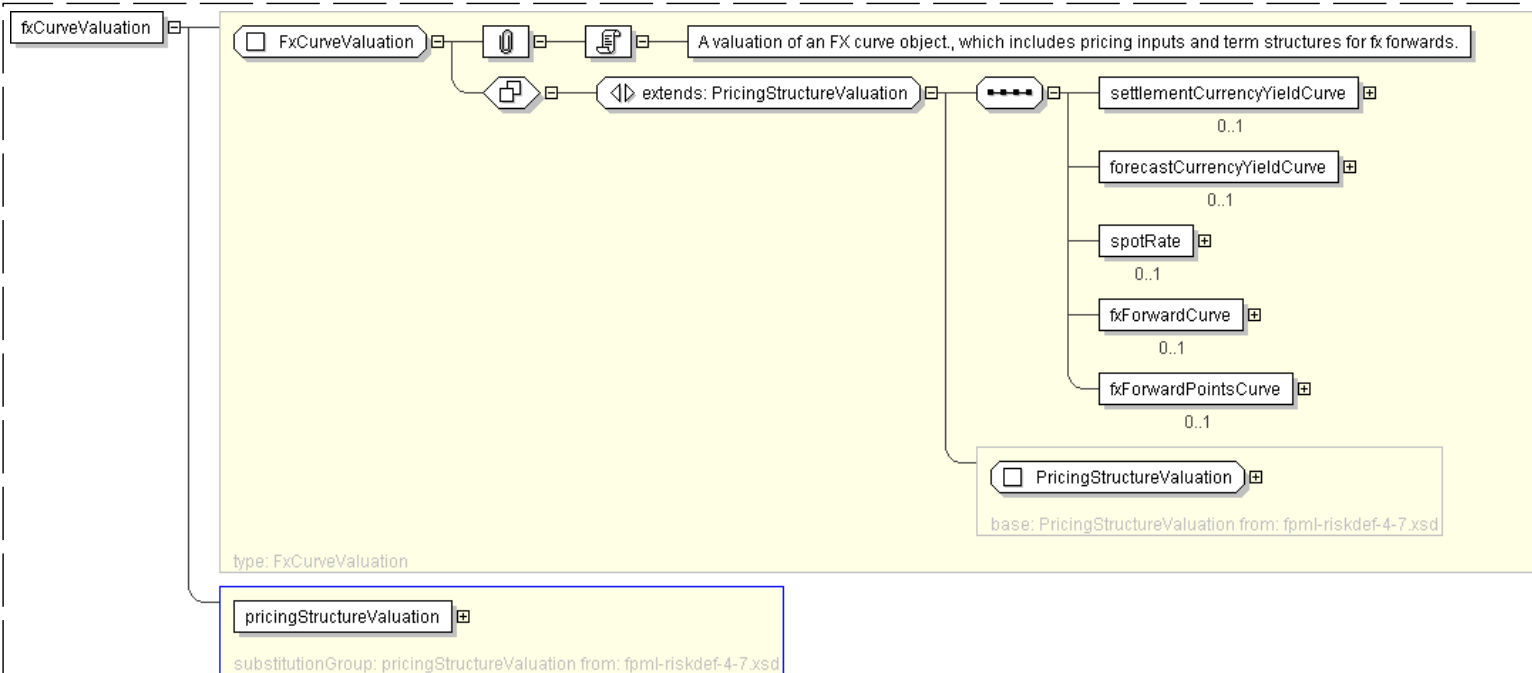
'A curve of fx forward rates.'

```
<fxForwardPointsCurve> TermCurve </fxForwardPointsCurve> [0..1]
```

'A curve of fx forward point spreads.'

```
</fxCurveValuation>
```

#### Diagram



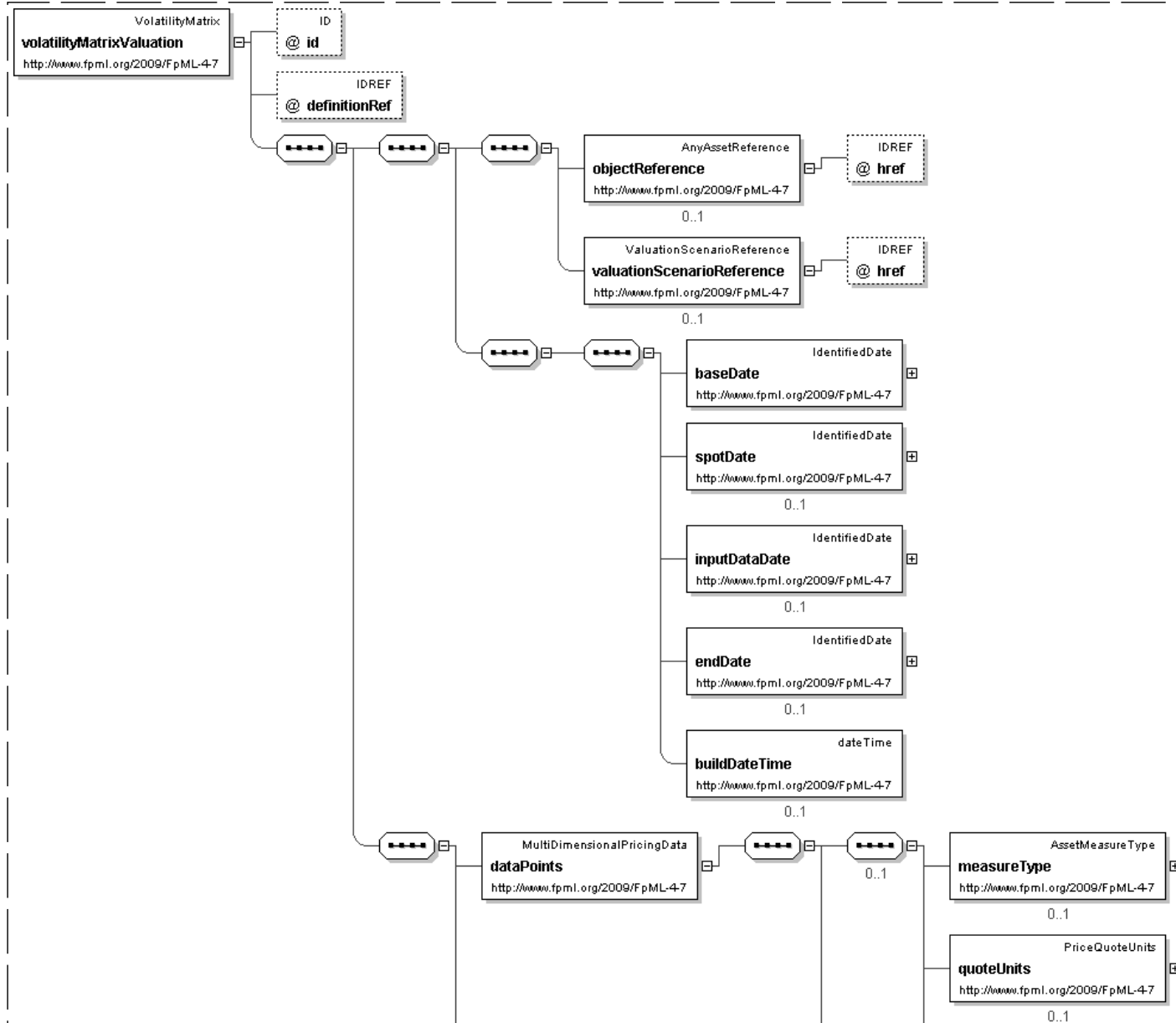
#### Schema Component Representation

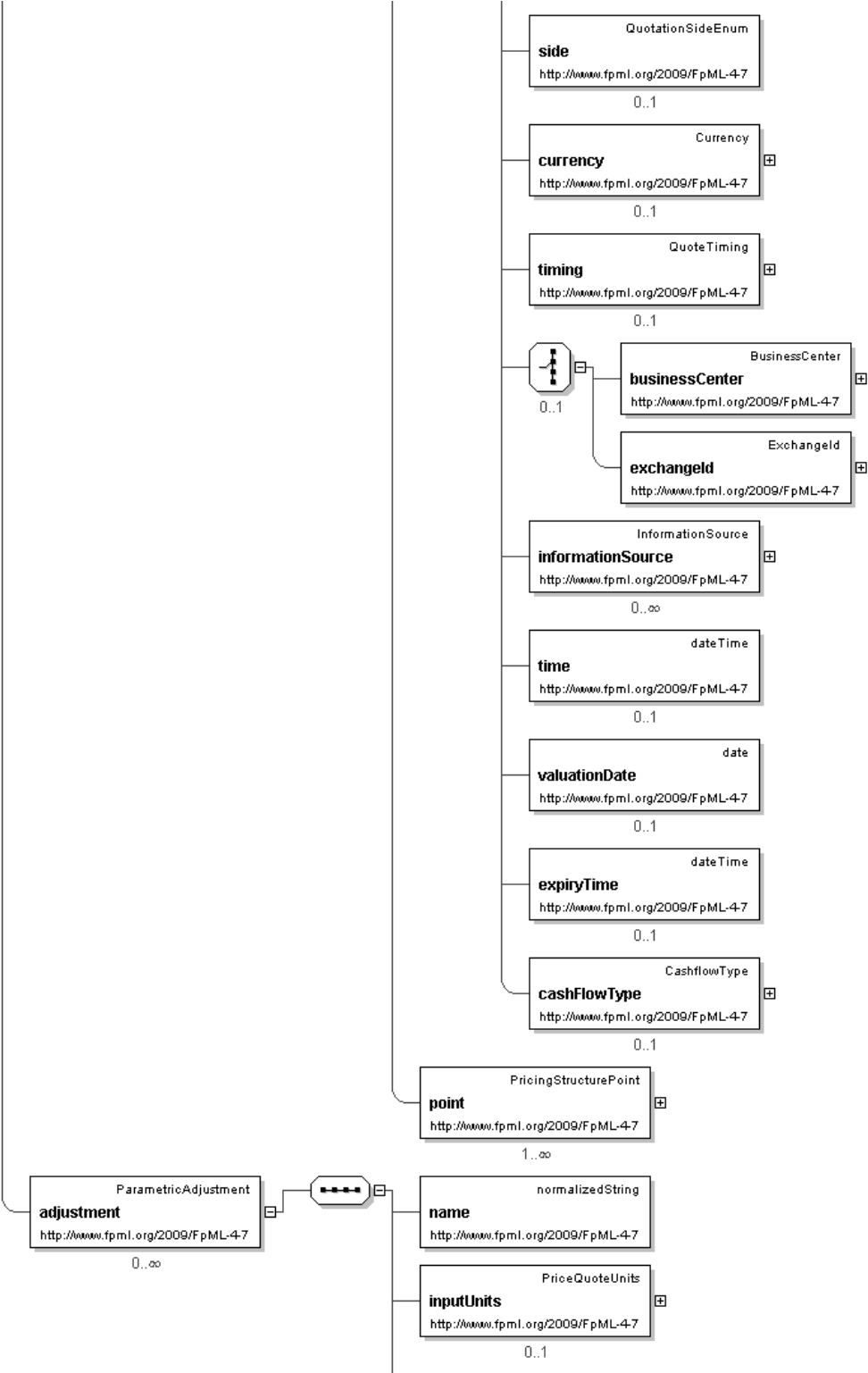
```
<xsd:element name="fxCurveValuation" type="FxCurveValuation"
  " substitutionGroup="pricingStructureValuation"/>
```

**Element:** **volatilityMatrixValuation**

- This element can be used wherever the following element is referenced:
  - [pricingStructureValuation](#)

<b>Name</b>	volatilityMatrixValuation
<b>Type</b>	<a href="#">VolatilityMatrix</a>
<b>Nilable</b>	no
<b>Abstract</b>	no

**Logical Diagram**



ParametricAdjustmentPoint

**datapoint**

http://www.fpml.org/2009/FpML-4-7

1..∞

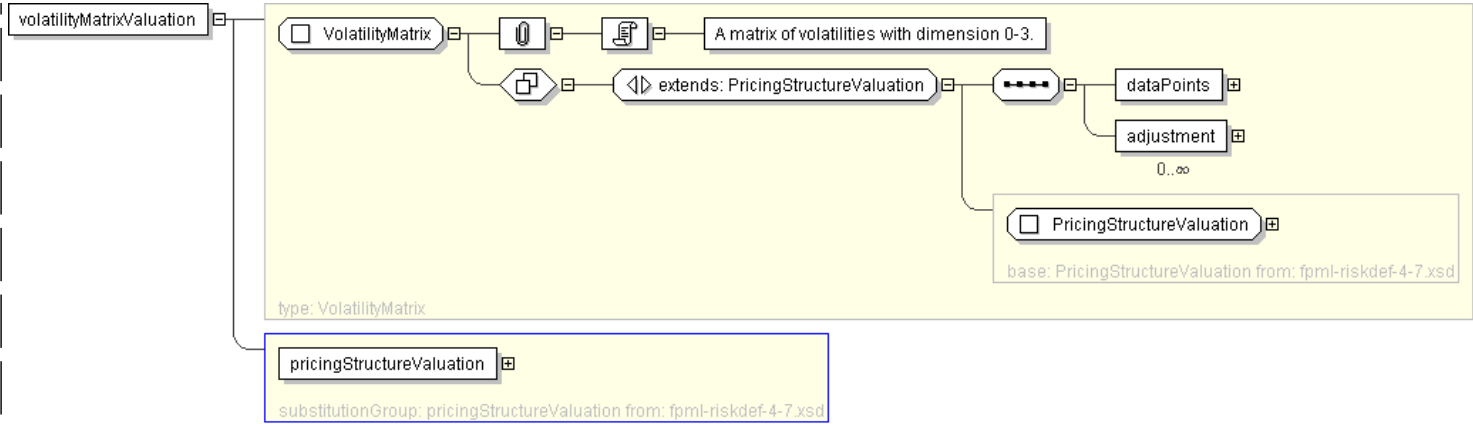
XML Instance Representation

```
<volatilityMatrixValuation
id="xsd:ID [0..1]"
definitionRef="xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'

">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'
```

Diagram



Schema Component Representation

```
<xsd:element name="volatilityMatrixValuation" type=" VolatilityMatrix"
  " substitutionGroup="pricingStructureValuation" />
```

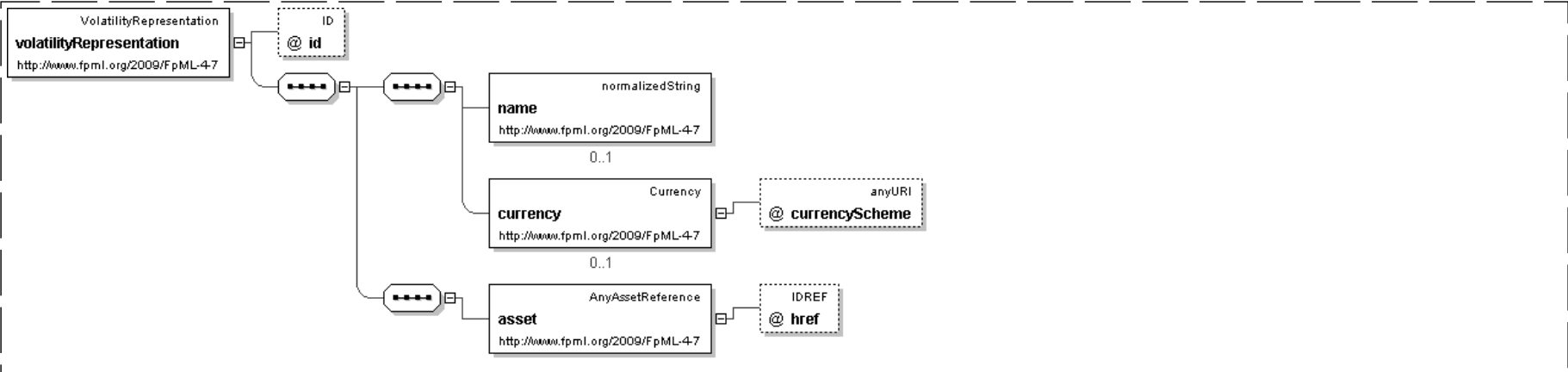
[top](#)

Element: volatilityRepresentation

- This element can be used wherever the following element is referenced:
  - [pricingStructure](#)

Name	volatilityRepresentation
Type	<a href="#">VolatilityRepresentation</a>
Nilable	no
Abstract	no

Logical Diagram



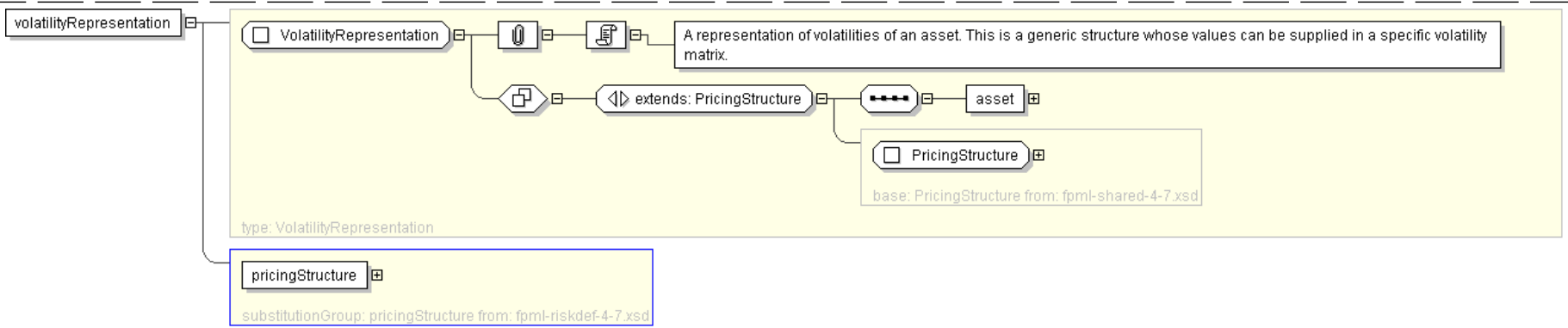
XML Instance Representation

```
<volatilityRepresentation
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'
```

```
<currency> Currency </currency> [0..1]
'The currency that the structure is expressed in (this is relevant mostly for the Interest Rates asset class).'AnyAssetReference </asset> [1]
'A reference to the asset whose volatility is modeled.'
```

```
</volatilityRepresentation>
```

Diagram



Schema Component Representation

```
<xsd:element name="volatilityRepresentation" type="VolatilityRepresentation"
  substitutionGroup="pricingStructure"/>
```

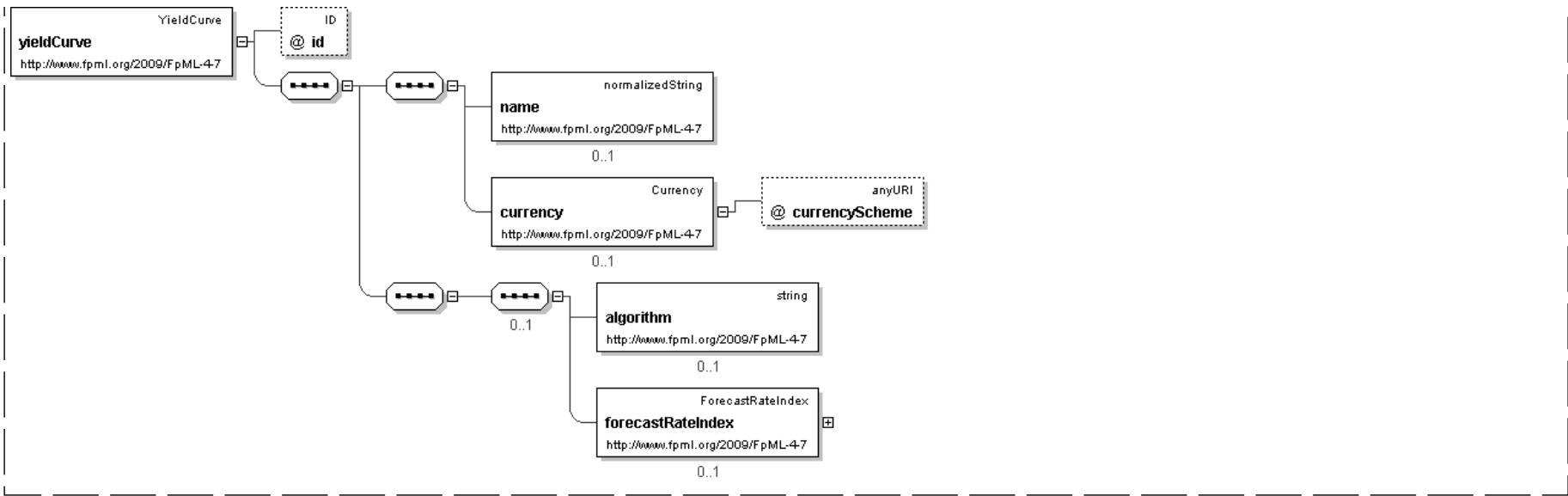
[top](#)

Element: **yieldCurve**

- This element can be used wherever the following element is referenced:
  - [pricingStructure](#)

Name	yieldCurve
Type	<a href="#">YieldCurve</a>
Nilable	no
Abstract	no

Logical Diagram



XML Instance Representation

```
<yieldCurve
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'

  <currency> Currency </currency> [0..1]
  'The currency that the structure is expressed in (this is relevant mostly for the Interes
  Rates asset class).'
```

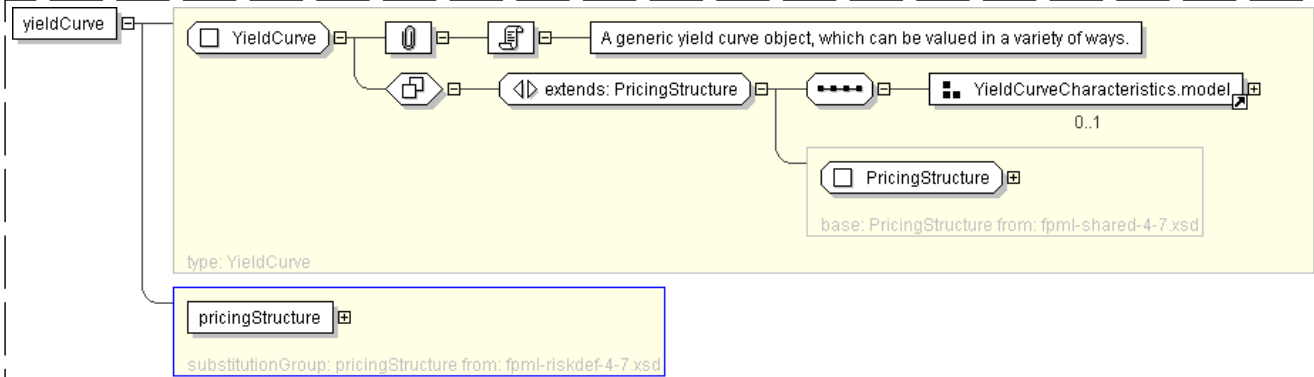
Start Group: YieldCurveCharacteristics.model [0..1]

```
  <algorithm> xsd:string </algorithm> [0..1]
  <forecastRateIndex> ForecastRateIndex </forecastRateIndex> [0..1]
```

End Group: YieldCurveCharacteristics.model

```
</yieldCurve>
```

Diagram



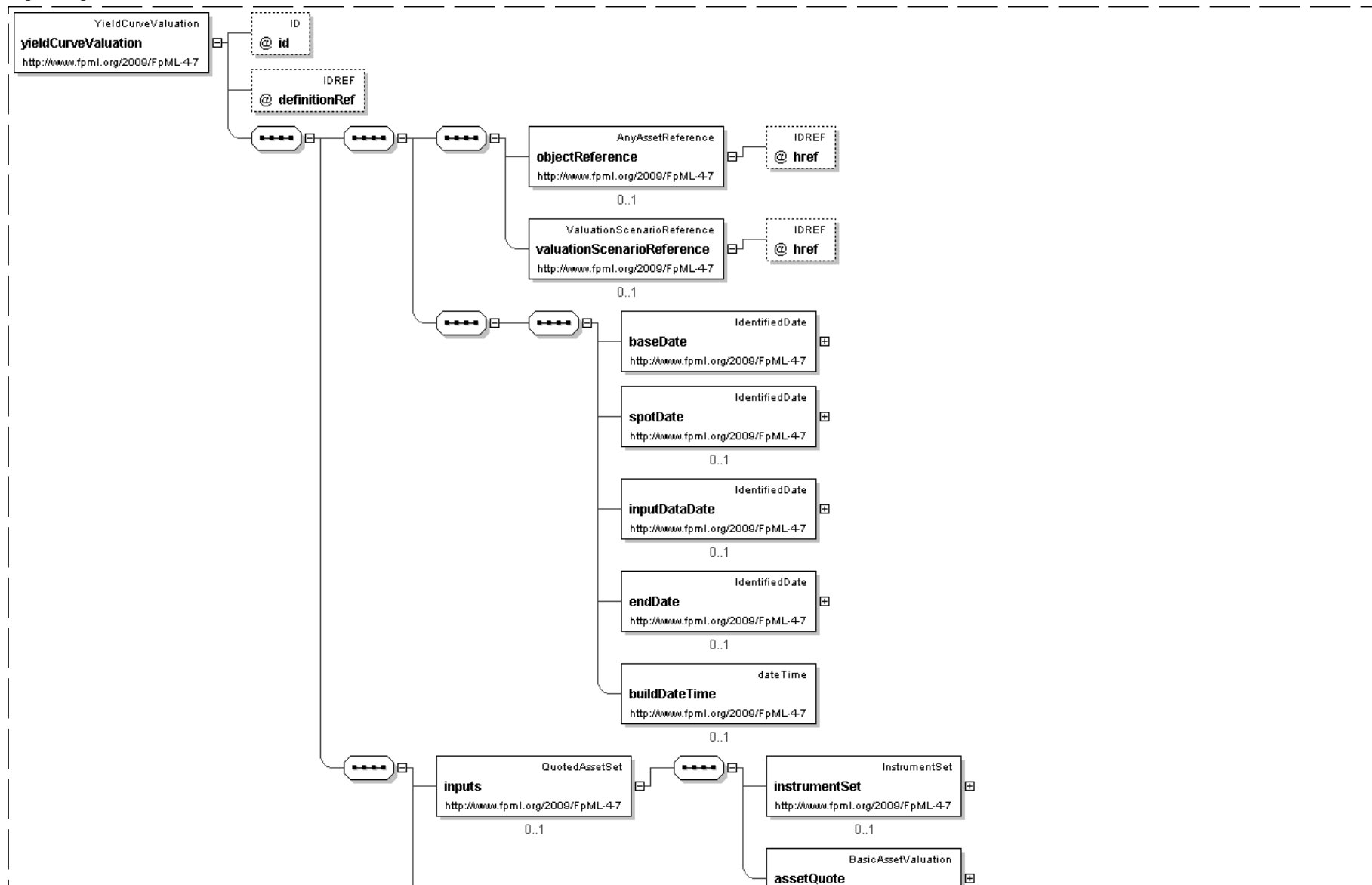
Schema Component Representation

```
<xsd:element name="yieldCurve" type=" YieldCurve " substitutionGroup="pricingStructure"/>
```

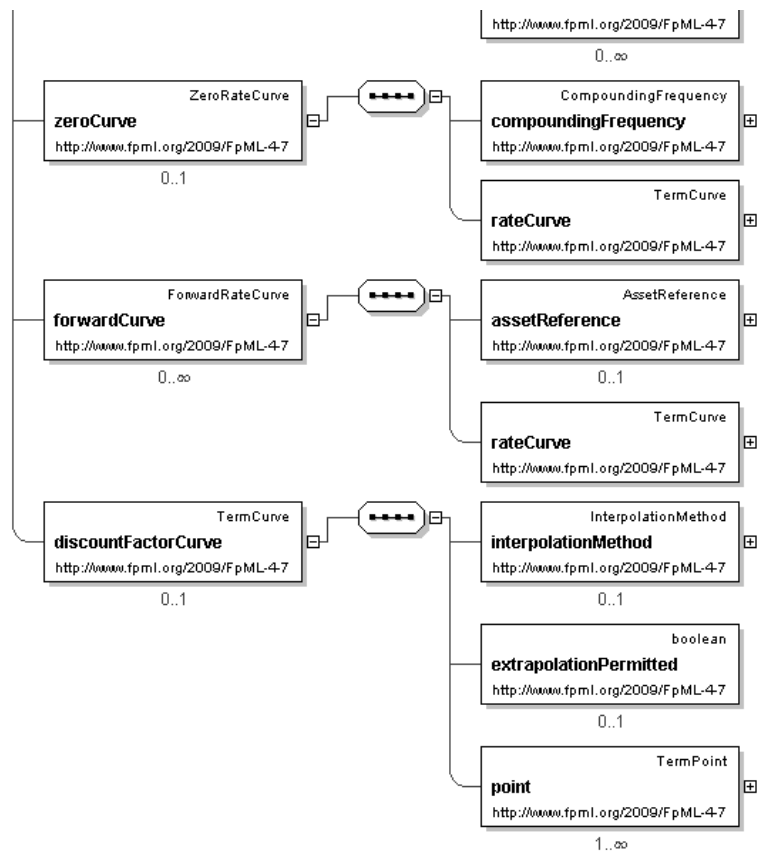
**Element:** `yieldCurveValuation`

- This element can be used wherever the following element is referenced:
  - [pricingStructureValuation](#)

<b>Name</b>	yieldCurveValuation
<b>Type</b>	<a href="#">YieldCurveValuation</a>
<b>Nilable</b>	no
<b>Abstract</b>	no

**Logical Diagram**





### XML Instance Representation

```

<yieldCurveValuation
  id="xsd:ID [0..1]"
  definitionRef="xsd:IDREF [0..1]"
  'An optional reference to the scenario that this valuation applies to.'
">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'

```

'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'

<endDate> IdentifiedDate </endDate> [0..1]

'The last date for which data is supplied in this pricing input.'

<buildDateTime> xsd:dateTime </buildDateTime> [0..1]

'The date and time when the pricing input was generated.'

<inputs> QuotedAssetSet </inputs> [0..1]

<zeroCurve> ZeroRateCurve </zeroCurve> [0..1]

'A curve of zero rates.'

<forwardCurve> ForwardRateCurve </forwardCurve> [0..\*]

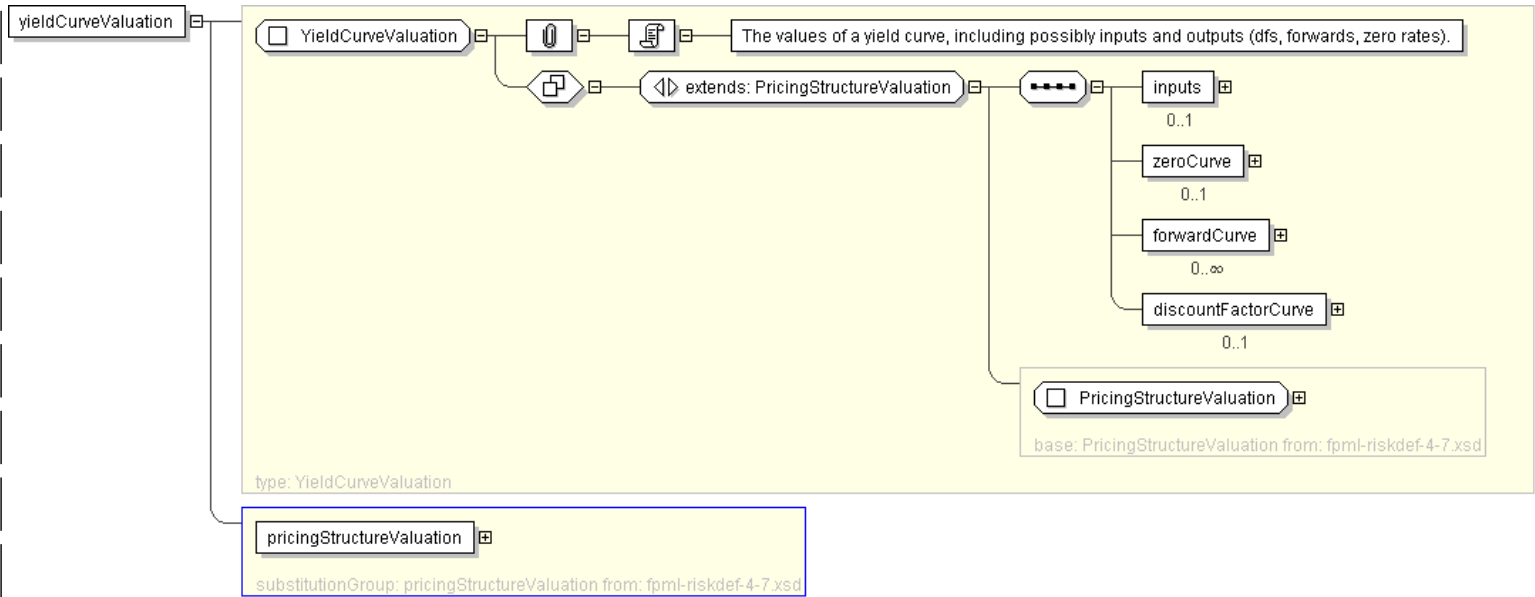
'A curve of forward rates.'

<discountFactorCurve> TermCurve </discountFactorCurve> [0..1]

'A curve of discount factors.'

</yieldCurveValuation>

Diagram



Schema Component Representation

```
<xsd:element name="yieldCurveValuation" type="YieldCurveValuation"
  substitutionGroup="pricingStructureValuation"/>
```

Global Definitions

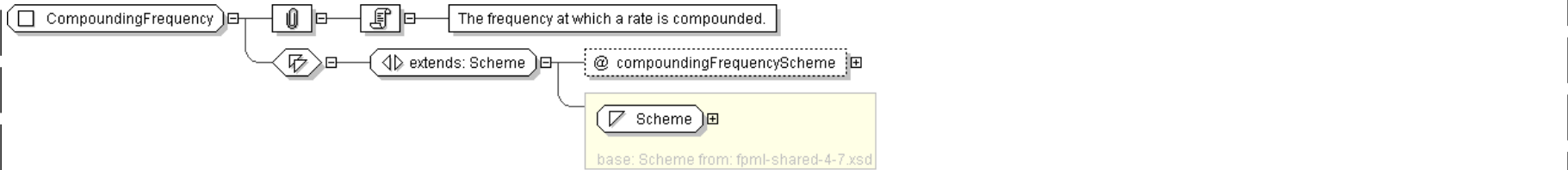
Complex Type: **CompoundingFrequency**

Super-types:	<a href="#">Scheme</a> < <b>CompoundingFrequency</b> (by extension)
Sub-types:	None
Name	CompoundingFrequency
Used by (from the same schema document)	Complex Type <a href="#">ZeroRateCurve</a>
Abstract	no
Documentation	The frequency at which a rate is compounded.

XML Instance Representation

```
<...  
compoundingFrequencyScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CompoundingFrequency">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="compoundingFrequencyScheme" type=" xsd:anyURI " default="http://www.  
        fpml.org/coding-scheme/compounding-frequency"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **CreditCurve**

Super-types:	<a href="#">PricingStructure</a> < <b>CreditCurve</b> (by extension)
Sub-types:	None
Name	CreditCurve
Used by (from the same schema document)	Element <a href="#">creditCurve</a>
Abstract	no
Documentation	A generic credit curve definition.

XML Instance Representation

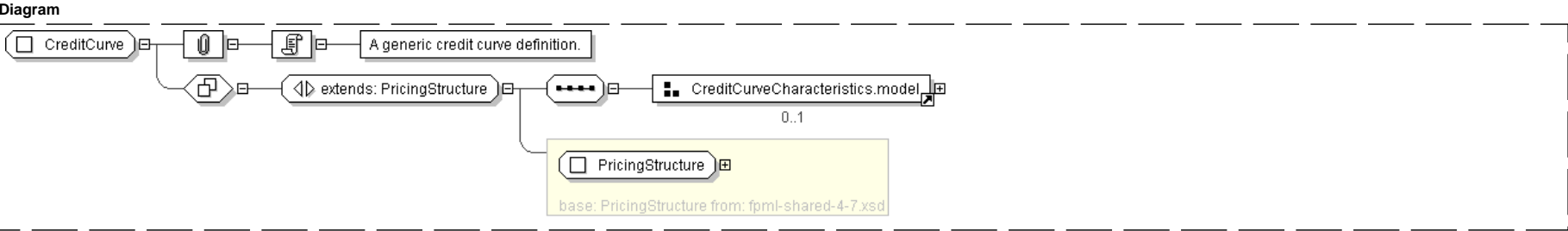
```
<...  
id=" xsd:ID [0..1]">  
  <name> xsd:normalizedString </name> [0..1]  
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'  
  
  <currency> Currency </currency> [0..1]  
  'The currency that the structure is expressed in (this is relevant mostly for the Interes  
  Rates asset class).'  
  Start Group: CreditCurveCharacteristics.model [0..1]  
</...>
```

```
Start Choice [1]
  <referenceEntity> LegalEntity </referenceEntity> [1]
  'The entity for which this is defined.'

  <creditEntityReference> LegalEntityReference </creditEntityReference> [1]
  'An XML reference a credit entity defined elsewhere in the document.'

End Choice

<creditEvents> CreditEvents </creditEvents> [0..1]
'The material credit event.'
```



Schema Component Representation

```
<xsd:complexType name="CreditCurve">
  <xsd:complexContent>
    <xsd:extension base=" PricingStructure " >
      <xsd:sequence>
        <xsd:group ref=" CreditCurveCharacteristics.model " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

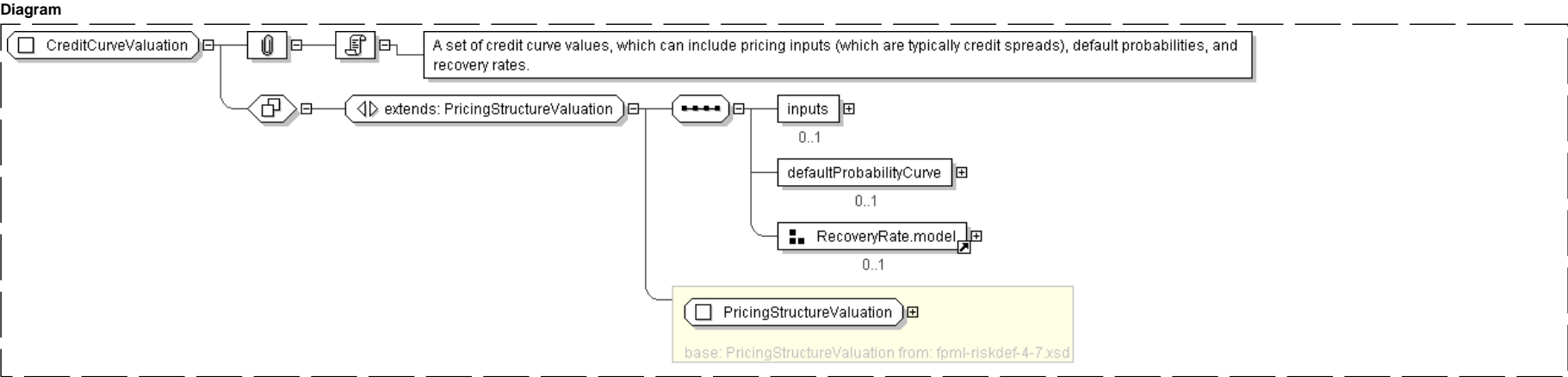
Complex Type: CreditCurveValuation

Super-types:	PricingStructureValuation < CreditCurveValuation (by extension)
Sub-types:	None

Name	CreditCurveValuation
Used by (from the same schema document)	Element <a href="#">creditCurveValuation</a>
Abstract	no
Documentation	A set of credit curve values, which can include pricing inputs (which are typically credit spreads), default probabilities, and recovery rates.

XML Instance Representation

<... id=" <a href="#">xsd:ID</a> [0..1]" definitionRef=" <a href="#">xsd:IDREF</a> [0..1] <i>'An optional reference to the scenario that this valuation applies to.'</i>
>  <objectReference> <a href="#">AnyAssetReference</a> </objectReference> [0..1] <i>'A reference to the asset or pricing structure that this values.'</i>
  <valuationScenarioReference> <a href="#">ValuationScenarioReference</a> </valuationScenarioReference> [0..1] <i>'A reference to the valuation scenario used to calculate this valuation. If the Valuation occurs within a ValuationSet, this value is optional and is defaulted from the ValuationSet. If this value occurs in both places, the lower level value (i.e. the one here) overrides that in the higher (i.e. ValuationSet).'</i>
  <baseDate> <a href="#">IdentifiedDate</a> </baseDate> [1] <i>'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'</i>
  <spotDate> <a href="#">IdentifiedDate</a> </spotDate> [0..1] <i>'The spot settlement date for which the structure applies, normally 0-2 days after the base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".'</i>
  <inputDataDate> <a href="#">IdentifiedDate</a> </inputDataDate> [0..1] <i>'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'</i>
  <endDate> <a href="#">IdentifiedDate</a> </endDate> [0..1] <i>'The last date for which data is supplied in this pricing input.'</i>
  <buildDateTime> <a href="#">xsd:dateTime</a> </buildDateTime> [0..1] <i>'The date and time when the pricing input was generated.'</i>
  <inputs> <a href="#">QuotedAssetSet</a> </inputs> [0..1] <defaultProbabilityCurve> <a href="#">DefaultProbabilityCurve</a> </defaultProbabilityCurve> [0..1] <i>'A curve of default probabilities.'</i>
Start Group: <a href="#">RecoveryRate.model</a> [0..1] <i>'A recovery rate value or curve.'</i>
Start <a href="#">Choice</a> [1]  <recoveryRate> <a href="#">xsd:decimal</a> </recoveryRate> [1] <i>'A single recovery rate, to be used for all terms.'</i>   <recoveryRateCurve> <a href="#">TermCurve</a> </recoveryRateCurve> [1] <i>'A curve of recovery rates, allowing different terms to have different recovery rates.'</i>
End Choice End Group: <a href="#">RecoveryRate.model</a> </...>



**Schema Component Representation**

```
<xsd:complexType name="CreditCurveValuation">
  <xsd:complexContent>
    <xsd:extension base="PricingStructureValuation" >
      <xsd:sequence>
        <xsd:element name="inputs" type="QuotedAssetSet" minOccurs="0"/>
        <xsd:element name="defaultProbabilityCurve" type="DefaultProbabilityCurve" minOccurs="0"/>
        <xsd:group ref="RecoveryRate.model" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

**Complex Type: DefaultProbabilityCurve**

Super-types:	<a href="#">PricingStructureValuation</a> < <b>DefaultProbabilityCurve</b> (by extension)
Sub-types:	None

Name	DefaultProbabilityCurve
Used by (from the same schema document)	Complex Type <a href="#">CreditCurveValuation</a>
Abstract	no
Documentation	A set of default probabilities.

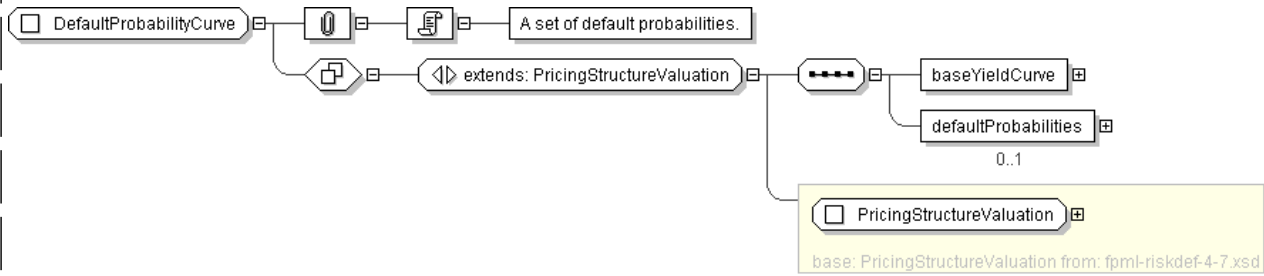
**XML Instance Representation**

```
<...
id="xsd:ID [0..1]"
definitionRef="xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'
">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'
```

```
<baseDate> IdentifiedDate </baseDate> [1]
'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'IdentifiedDate </spotDate> [0..1]
'The spot settlement date for which the structure applies, normally 0-2 days after the base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".'IdentifiedDate </inputDataDate> [0..1]
'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'IdentifiedDate </endDate> [0..1]
'The last date for which data is supplied in this pricing input.'xsd:dateTime </buildDateTime> [0..1]
'The date and time when the pricing input was generated.'PricingStructureReference </baseYieldCurve> [1]
'A reference to the yield curve values used as a basis for this credit curve valuation.'TermCurve </defaultProbabilities> [0..1]
'A collection of default probabilities.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DefaultProbabilityCurve">
  <xsd:complexContent>
    <xsd:extension base=" PricingStructureValuation ">
      <xsd:sequence>
        <xsd:element name="baseYieldCurve" type=" PricingStructureReference "/>
        <xsd:element name="defaultProbabilities" type=" TermCurve " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **ForwardRateCurve**

Super-types:	None
Sub-types:	None

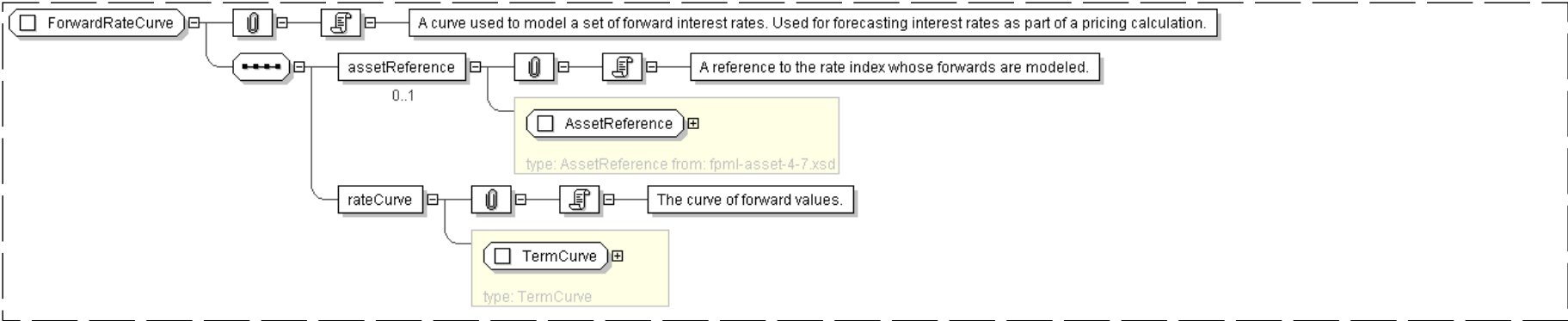
Name	ForwardRateCurve
Used by (from the same schema document)	Complex Type <a href="#">YieldCurveValuation</a>
Abstract	no
Documentation	A curve used to model a set of forward interest rates. Used for forecasting interest rates as part of a pricing calculation.

XML Instance Representation

```
<...>
  <assetReference> AssetReference </assetReference> [0..1]
  'A reference to the rate index whose forwards are modeled.'

  <rateCurve> TermCurve </rateCurve> [1]
  'The curve of forward values.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ForwardRateCurve">
  <xsd:sequence>
    <xsd:element name="assetReference" type="AssetReference" minOccurs="0"/>
    <xsd:element name="rateCurve" type="TermCurve" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: FxCurve

Super-types:	<a href="#">PricingStructure</a> < <b>FxCurve</b> (by extension)
Sub-types:	None

Name	FxCurve
Used by (from the same schema document)	Element <a href="#">fxCurve</a>
Abstract	no
Documentation	An fx curve object., which includes pricing inputs and term structures for fx forwards.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'
```



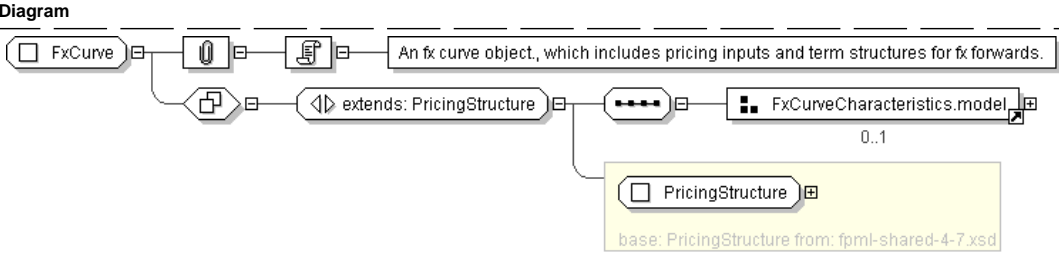
```
<currency> Currency </currency> [0..1]
'The currency that the structure is expressed in (this is relevant mostly for the Interes
Rates asset class).'
```

Start Group: FxCurveCharacteristics.model [0..1]

```
<quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
'Defines the two currencies for an FX trade and the quotation relationship between the
two currencies.'
```

End Group: FxCurveCharacteristics.model

```
</...>
```



Schema Component Representation

```
<xsd:complexType name="FxCurve">
  <xsd:complexContent>
    <xsd:extension base="PricingStructure">
      <xsd:sequence>
        <xsd:group ref="FxCurveCharacteristics.model" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxCurveValuation**

Super-types:	<a href="#">PricingStructureValuation</a> < <b>FxCurveValuation</b> (by extension)
Sub-types:	None
Name	FxCurveValuation
Used by (from the same schema document)	Element <a href="#">fxCurveValuation</a>
Abstract	no
Documentation	A valuation of an FX curve object., which includes pricing inputs and term structures for fx forwards.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]"
definitionRef=" xsd:IDREF [0..1]
'An optional reference to the scenario that this valuation applies to.'
">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
```

the ValuationSet. If this value occurs in both places, the lower level value (i.e. the one here) overrides that in the higher (i.e. ValuationSet).'

<baseDate> IdentifiedDate </baseDate> [1]

'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'

<spotDate> IdentifiedDate </spotDate> [0..1]

'The spot settlement date for which the structure applies, normally 0-2 days after the base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".'

<inputDataDate> IdentifiedDate </inputDataDate> [0..1]

'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'

<endDate> IdentifiedDate </endDate> [0..1]

'The last date for which data is supplied in this pricing input.'

<buildDateTime> xsd:dateTime </buildDateTime> [0..1]

'The date and time when the pricing input was generated.'

<settlementCurrencyYieldCurve> PricingStructureReference </settlementCurrencyYieldCurve> [0..1]

<forecastCurrencyYieldCurve> PricingStructureReference </forecastCurrencyYieldCurve> [0..1]

<spotRate> FxRateSet </spotRate> [0..1]

<fxForwardCurve> TermCurve </fxForwardCurve> [0..1]

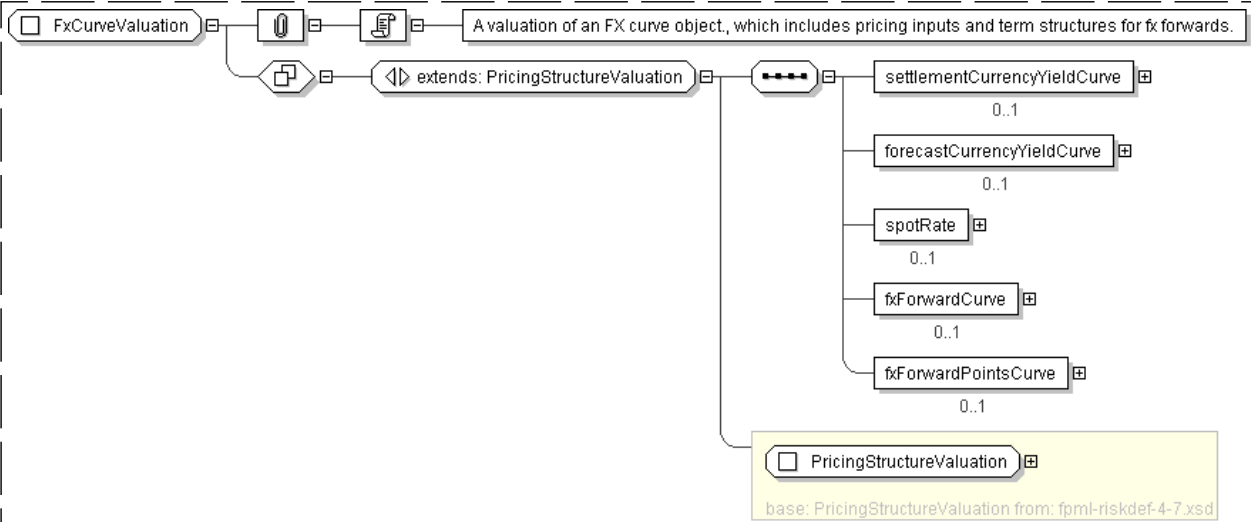
'A curve of fx forward rates.'

<fxForwardPointsCurve> TermCurve </fxForwardPointsCurve> [0..1]

'A curve of fx forward point spreads.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FxCurveValuation">
  <xsd:complexContent>
    <xsd:extension base="PricingStructureValuation" />
  </xsd:complexContent>
</xsd:complexType>
```

```
<xsd:sequence>
  <xsd:element name="settlementCurrencyYieldCurve" type=" PricingStructureReference "
    minOccurs="0"/>
  <xsd:element name="forecastCurrencyYieldCurve" type=" PricingStructureReference "
    minOccurs="0"/>
  <xsd:element name="spotRate" type=" FxRateSet " minOccurs="0"/>
  <xsd:element name="fxForwardCurve" type=" TermCurve " minOccurs="0"/>
  <xsd:element name="fxForwardPointsCurve" type=" TermCurve " minOccurs="0"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxRateSet**

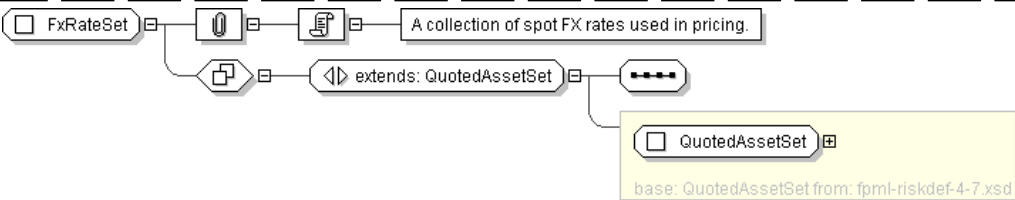
Super-types:	<a href="#">QuotedAssetSet</a> < <b>FxRateSet</b> (by extension)
Sub-types:	None
Name	FxRateSet
Used by (from the same schema document)	Complex Type <a href="#">FxCurveValuation</a>
Abstract	no
Documentation	A collection of spot FX rates used in pricing.

XML Instance Representation

```
<...>
  <instrumentSet> InstrumentSet </instrumentSet> [0..1]
  'A collection of instruments used as a basis for quotation.'

  <assetQuote> BasicAssetValuation </assetQuote> [0..*]
  'A collection of valuations (quotes) for the assets needed in the set. Normally these
  quotes will be for the underlying assets listed above, but they don\'t necessarily have to be.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxRateSet">
  <xsd:complexContent>
    <xsd:extension base=" QuotedAssetSet " />
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **MultiDimensionalPricingData**

<i>Super-types:</i>	None
<i>Sub-types:</i>	None
<b>Name</b>	MultiDimensionalPricingData
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">VolatilityMatrix</a>
<b>Abstract</b>	no
<b>Documentation</b>	A pricing data set that contains a series of points with coordinates. It is a sparse matrix representation of a multi-dimensional matrix.

## XML Instance Representation

&lt;...&gt;

Start Group: [QuotationCharacteristics.model](#) [0..1]*'Characteristics that apply to all quotations in the pricing structure.'*<measureType> [AssetMeasureType](#) </measureType> [0..1]*'The type of the value that is measured. This could be an NPV, a cash flow, a clean price, etc.'*<quoteUnits> [PriceQuoteUnits](#) </quoteUnits> [0..1]*'The optional units that the measure is expressed in. If not supplied, this is assumed to be a price/value in currency units.'*<side> [QuotationSideEnum](#) </side> [0..1]*'The side (bid/mid/ask) of the measure.'*<currency> [Currency](#) </currency> [0..1]*'The optional currency that the measure is expressed in. If not supplied, this is defaulted from the reportingCurrency in the valuationScenarioDefinition.'*<timing> [QuoteTiming](#) </timing> [0..1]*'When during a day the quote is for. Typically, if this element is supplied, the QuoteLocation needs also to be supplied.'*Start Group: [QuoteLocation.model](#) [0..1]*'Where the quote is from.'*Start [Choice](#) [1]<businessCenter> [BusinessCenter](#) </businessCenter> [1]*'A city or other business center.'*<exchangeId> [ExchangeId](#) </exchangeId> [1]*'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'*

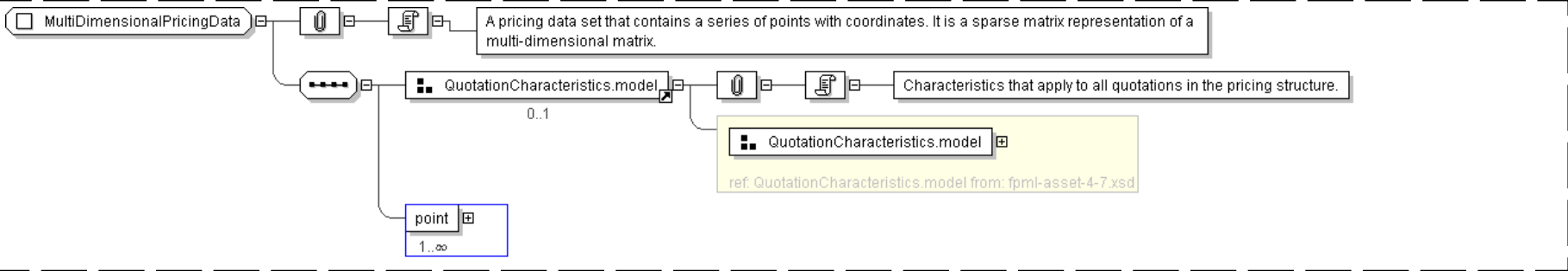
End Choice

End Group: [QuoteLocation.model](#)<informationSource> [InformationSource](#) </informationSource> [0..\*]*'The information source where a published or displayed market rate will be obtained, e.g. Telerate Page 3750.'*<time> [xsd:dateTime](#) </time> [0..1]*'When the quote was observed or derived.'*<valuationDate> [xsd:date](#) </valuationDate> [0..1]*'When the quote was computed.'*<expiryTime> [xsd:dateTime](#) </expiryTime> [0..1]*'When does the quote cease to be valid.'*<cashFlowType> [CashflowType](#) </cashFlowType> [0..1]

```
'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium
Fee, Settlement Fee, Brokerage Fee, etc.'
```

```
End Group: QuotationCharacteristics.model
<point> PricingStructurePoint </point> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MultiDimensionalPricingData">
  <xsd:sequence>
    <xsd:group ref=" QuotationCharacteristics.model " minOccurs="0"/>
    <xsd:element name="point" type=" PricingStructurePoint " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: ParametricAdjustment

Super-types:	None
Sub-types:	None
Name	ParametricAdjustment
Used by (from the same schema document)	Complex Type <a href="#">VolatilityMatrix</a>
Abstract	no
Documentation	An adjustment used to accommodate a parameter of the input trade, e.g. the strike.

XML Instance Representation

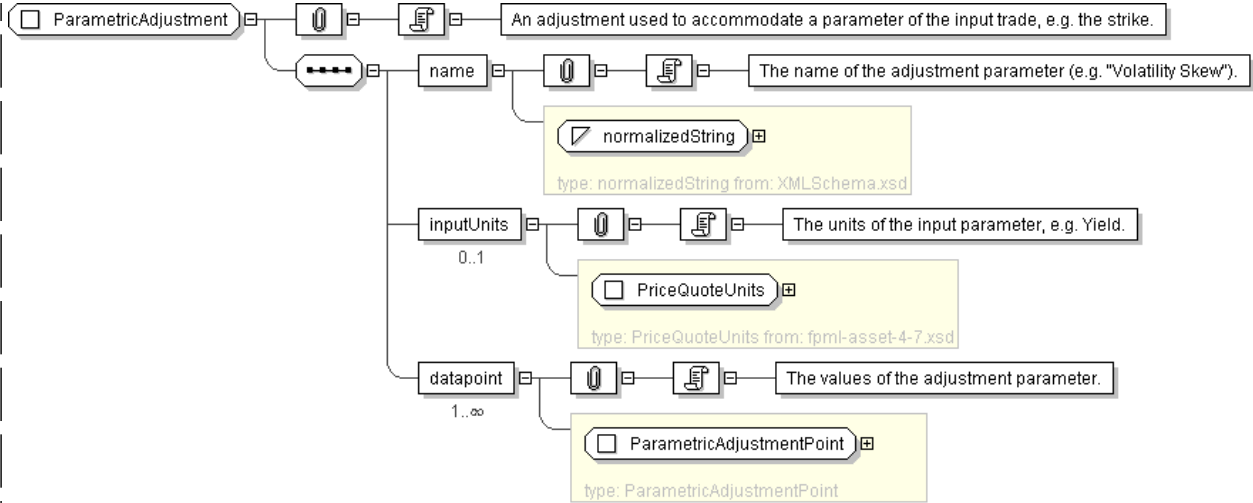
```
<...>
<name> xsd:normalizedString </name> [1]
'The name of the adjustment parameter (e.g. \"Volatility Skew\").'

<inputUnits> PriceQuoteUnits </inputUnits> [0..1]
'The units of the input parameter, e.g. Yield.'

<datapoint> ParametricAdjustmentPoint </datapoint> [1..*]
'The values of the adjustment parameter.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ParametricAdjustment">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:normalizedString" />
    <xsd:element name="inputUnits" type="PriceQuoteUnits" minOccurs="0"/>
    <xsd:element name="datapoint" type="ParametricAdjustmentPoint" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: ParametricAdjustmentPoint

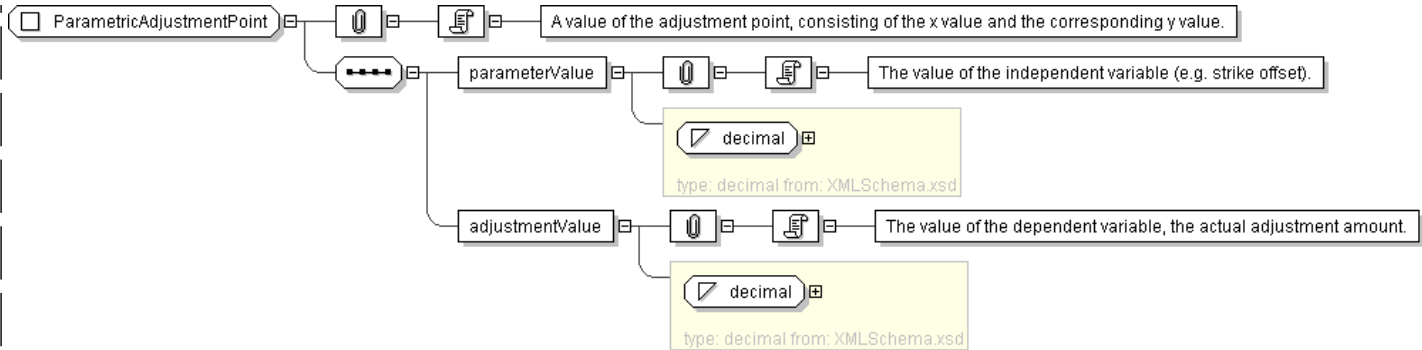
Super-types:	None
Sub-types:	None

Name	ParametricAdjustmentPoint
Used by (from the same schema document)	Complex Type <a href="#">ParametricAdjustment</a>
Abstract	no
Documentation	A value of the adjustment point, consisting of the x value and the corresponding y value.

XML Instance Representation

```
<...>
  <parameterValue> xsd:decimal </parameterValue> [1]
  'The value of the independent variable (e.g. strike offset).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ParametricAdjustmentPoint">
  <xsd:sequence>
    <xsd:element name="parameterValue" type="xsd:decimal" />
    <xsd:element name="adjustmentValue" type="xsd:decimal" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: PricingStructurePoint

Super-types:	None
Sub-types:	None
Name	PricingStructurePoint
Used by (from the same schema document)	Complex Type <a href="#">MultiDimensionalPricingData</a>
Abstract	no
Documentation	A single valued point with a set of coordinates that define an arbitrary number of indentifying indexes (0 or more). Note that the collection of coordinates/coordinate references for a PricingStructurePoint must not define a given dimension (other than "generic") more than once. This is to avoid ambiguity.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Group: PricingCoordinateOrReference.model [0..*]
Start Choice [1]
  <coordinate> PricingDataPointCoordinate </coordinate> [1]
  'An explicit, filled in data point coordinate. This might specify expiration, strike, etc.'

  <coordinateReference> PricingDataPointCoordinateReference </coordinateReference> [1]
  'A reference to a pricing data point coordinate within this document.'

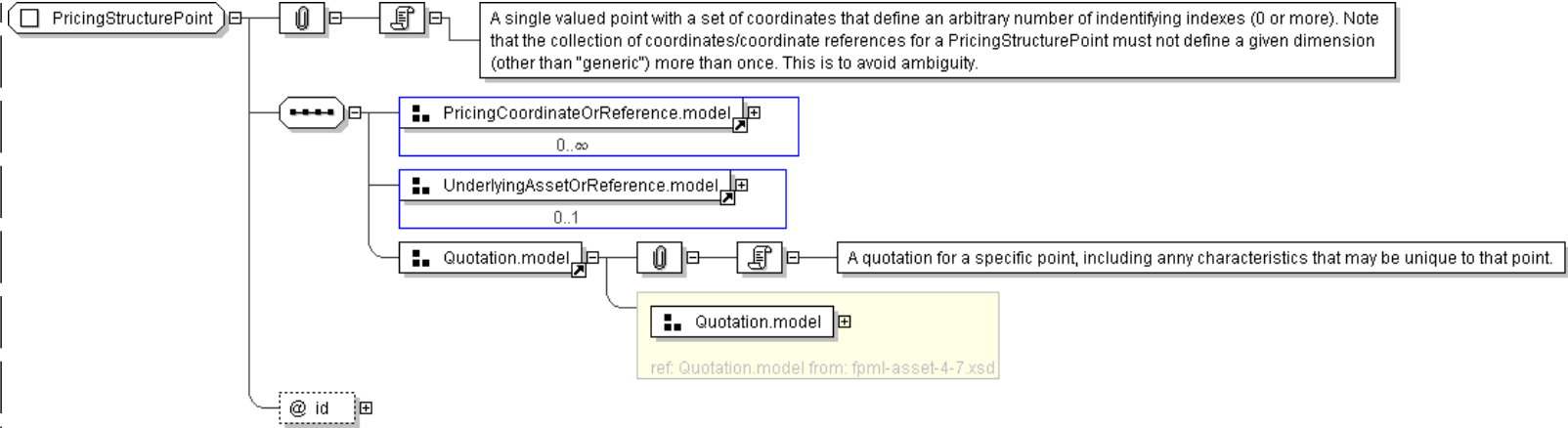
End Choice
End Group: PricingCoordinateOrReference.model
Start Group: UnderlyingAssetOrReference.model [0..1]
Start Choice [1]
  <underlyingAsset> ... </underlyingAsset> [1]
  'An underlying asset that defines the meaning of the value, i.e. the product that the
value corresponds to. For example, this could be a caplet or simple european swaption.'

  <underlyingAssetReference> AssetReference </underlyingAssetReference> [0..1]
  'A reference to an underlying asset that defines the meaning of the value, i.e. the
product that the value corresponds to. For example, this could be a caplet or simple
```

<code>    european swaption.'</code>	
<code>End Choice</code>	
<code>End Group: <u>UnderlyingAssetOrReference.model</u></code>	
<code>  &lt;value&gt; <u>xsd:decimal</u> &lt;/value&gt; [0..1]</code>	
<code>    'The value of the the quotation.'</code>	
<code>  &lt;measureType&gt; <u>AssetMeasureType</u> &lt;/measureType&gt; [0..1]</code>	
<code>    'The type of the value that is measured. This could be an NPV, a cash flow, a clean price, etc.'</code>	
<code>  &lt;quoteUnits&gt; <u>PriceQuoteUnits</u> &lt;/quoteUnits&gt; [0..1]</code>	
<code>    'The optional units that the measure is expressed in. If not supplied, this is assumed to be a price/value in currency units.'</code>	
<code>  &lt;side&gt; <u>QuotationSideEnum</u> &lt;/side&gt; [0..1]</code>	
<code>    'The side (bid/mid/ask) of the measure.'</code>	
<code>  &lt;currency&gt; <u>Currency</u> &lt;/currency&gt; [0..1]</code>	
<code>    'The optional currency that the measure is expressed in. If not supplied, this is defaulted from the reportingCurrency in the valuationScenarioDefinition.'</code>	
<code>  &lt;timing&gt; <u>QuoteTiming</u> &lt;/timing&gt; [0..1]</code>	
<code>    'When during a day the quote is for. Typically, if this element is supplied, the QuoteLocation needs also to be supplied.'</code>	
<code>Start Group: <u>QuoteLocation.model</u> [0..1]</code>	
<code>  'Where the quote is from.'</code>	
<code>Start Choice [1]</code>	
<code>  &lt;businessCenter&gt; <u>BusinessCenter</u> &lt;/businessCenter&gt; [1]</code>	
<code>    'A city or other business center.'</code>	
<code>  &lt;exchangeId&gt; <u>ExchangeId</u> &lt;/exchangeId&gt; [1]</code>	
<code>    'The exchange (e.g. stock or futures exchange) from which the quote is obtained.'</code>	
<code>End Choice</code>	
<code>End Group: <u>QuoteLocation.model</u></code>	
<code>  &lt;informationSource&gt; <u>InformationSource</u> &lt;/informationSource&gt; [0..*]</code>	
<code>    'The information source where a published or displayed market rate will be obtained, e.g. Telerate Page 3750.'</code>	
<code>  &lt;time&gt; <u>xsd:dateTime</u> &lt;/time&gt; [0..1]</code>	
<code>    'When the quote was observed or derived.'</code>	
<code>  &lt;valuationDate&gt; <u>xsd:date</u> &lt;/valuationDate&gt; [0..1]</code>	
<code>    'When the quote was computed.'</code>	
<code>  &lt;expiryTime&gt; <u>xsd:dateTime</u> &lt;/expiryTime&gt; [0..1]</code>	
<code>    'When does the quote cease to be valid.'</code>	
<code>  &lt;cashFlowType&gt; <u>CashflowType</u> &lt;/cashFlowType&gt; [0..1]</code>	
<code>    'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium Fee, Settlement Fee, Brokerage Fee, etc.'</code>	
<code>&lt;/...&gt;</code>	

Diagram





Schema Component Representation

```
<xsd:complexType name="PricingStructurePoint">
  <xsd:sequence>
    <xsd:group ref="PricingCoordinateOrReference.model" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:group ref="UnderlyingAssetOrReference.model" minOccurs="0"/>
    <xsd:group ref="Quotation.model"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

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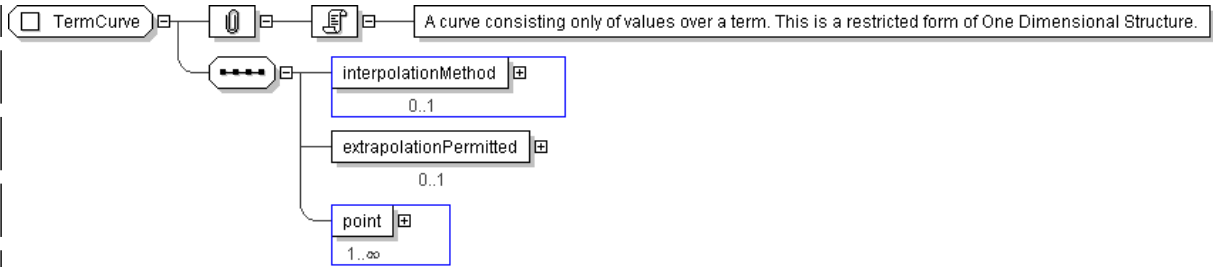
Complex Type: **TermCurve**

Super-types:	None
Sub-types:	None
Name	TermCurve
Used by (from the same schema document)	Complex Type <a href="#">DefaultProbabilityCurve</a> , Complex Type <a href="#">ForwardRateCurve</a> , Complex Type <a href="#">FxCurveValuation</a> , Complex Type <a href="#">FxCurveValuation</a> , Complex Type <a href="#">YieldCurveValuation</a> , Complex Type <a href="#">ZeroRateCurve</a> , Model Group <a href="#">RecoveryRate.model</a>
Abstract	no
Documentation	A curve consisting only of values over a term. This is a restricted form of One Dimensional Structure.

XML Instance Representation

```
<...>
  <interpolationMethod> InterpolationMethod </interpolationMethod> [0..1]
  <extrapolationPermitted> xsd:boolean </extrapolationPermitted> [0..1]
  <point> TermPoint </point> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TermCurve">
  <xsd:sequence>
    <xsd:element name="interpolationMethod" type=" InterpolationMethod " minOccurs="0"/>
    <xsd:element name="extrapolationPermitted" type=" xsd:boolean " minOccurs="0"/>
    <xsd:element name="point" type=" TermPoint " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **TermPoint**

Super-types:	None
Sub-types:	None

Name	TermPoint
Used by (from the same schema document)	Complex Type <a href="#">TermCurve</a>
Abstract	no
Documentation	A value point that can have a time dimension. Allows bid, mid, ask, and spread values to be represented.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <term> TimeDimension </term> [1]
  'The time dimension of the point (tenor and/or date)'

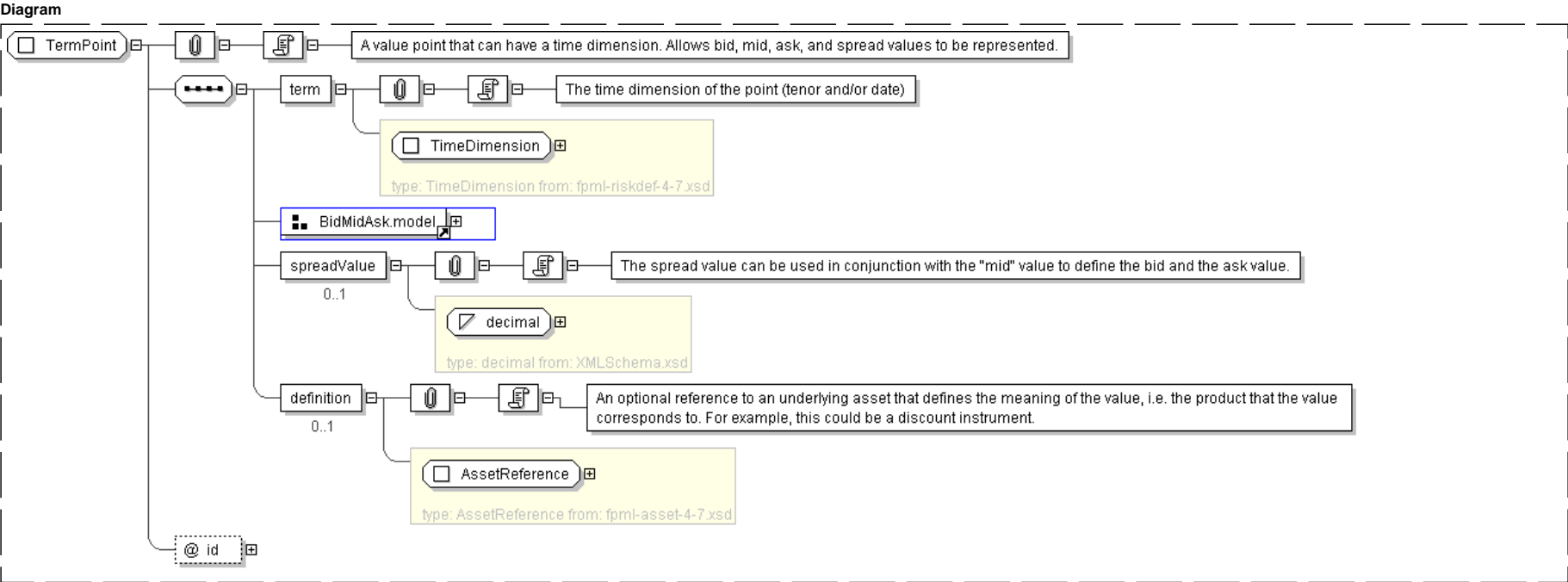
  <bid> xsd:decimal </bid> [0..1]
  'A price \"bid\" by a buyer for an asset, i.e. the price a buyer is willing to pay.'

  <mid> xsd:decimal </mid> [0..1]
  'A price midway between the bid and the ask price.'

  <ask> xsd:decimal </ask> [0..1]
  'A price \"asked\" by a seller for an asset, i.e. the price at which a seller is willing
  to sell.'

  <spreadValue> xsd:decimal </spreadValue> [0..1]
  'The spread value can be used in conjunction with the \"mid\" value to define the bid and
  the ask value.'

  <definition> AssetReference </definition> [0..1]
  'An optional reference to an underlying asset that defines the meaning of the value, i.e.
  the product that the value corresponds to. For example, this could be a discount instrument.'
</...>
```



Schema Component Representation

```
<xsd:complexType name="TermPoint">
  <xsd:sequence>
    <xsd:element name="term" type="TimeDimension" />
    <xsd:group ref="BidMidAsk.model" />
    <xsd:element name="spreadValue" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="definition" type="AssetReference" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **VolatilityMatrix**

Super-types:	<a href="#">PricingStructureValuation</a> < <b>VolatilityMatrix</b> (by extension)
Sub-types:	None

Name	VolatilityMatrix
Used by (from the same schema document)	Element <a href="#">volatilityMatrixValuation</a>
Abstract	no
Documentation	A matrix of volatilities with dimension 0-3.

XML Instance Representation

```
<...
id="xsd:ID [0..1]"
definitionRef="xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'
">
  <objectReference> AnyAssetReference </objectReference> [0..1]
```

'A reference to the asset or pricing structure that this values.'

<valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]

'A reference to the valuation scenario used to calculate this valuation. If the Valuation occurs within a ValuationSet, this value is optional and is defaulted from the ValuationSet. If this value occurs in both places, the lower level value (i.e. the one here) overrides that in the higher (i.e. ValuationSet).'

<baseDate> IdentifiedDate </baseDate> [1]

'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'

<spotDate> IdentifiedDate </spotDate> [0..1]

'The spot settlement date for which the structure applies, normally 0-2 days after the base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".'

<inputDataDate> IdentifiedDate </inputDataDate> [0..1]

'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'

<endDate> IdentifiedDate </endDate> [0..1]

'The last date for which data is supplied in this pricing input.'

<buildDateTime> xsd:dateTime </buildDateTime> [0..1]

'The date and time when the pricing input was generated.'

<dataPoints> MultiDimensionalPricingData </dataPoints> [1]

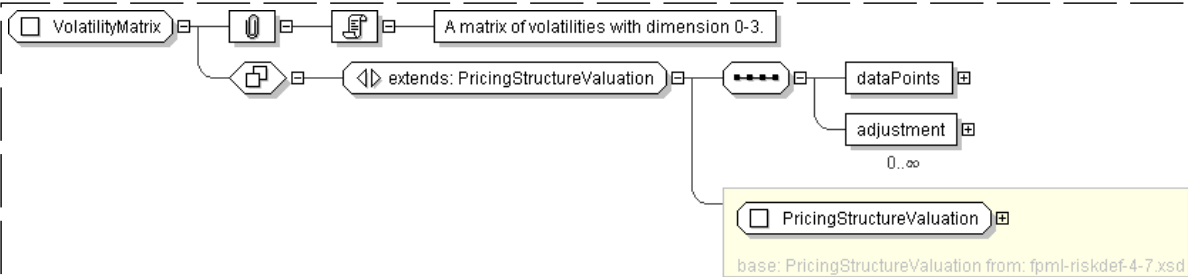
'The raw volatility matrix data, expressed as a multi-dimensional array.'

<adjustment> ParametricAdjustment </adjustment> [0..\*]

'An adjustment factor, such as for vol smile/skew.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="VolatilityMatrix">
  <xsd:complexContent>
    <xsd:extension base="PricingStructureValuation">
      <xsd:sequence>
        <xsd:element name="dataPoints" type="MultiDimensionalPricingData"/>
        <xsd:element name="adjustment" type="ParametricAdjustment"
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

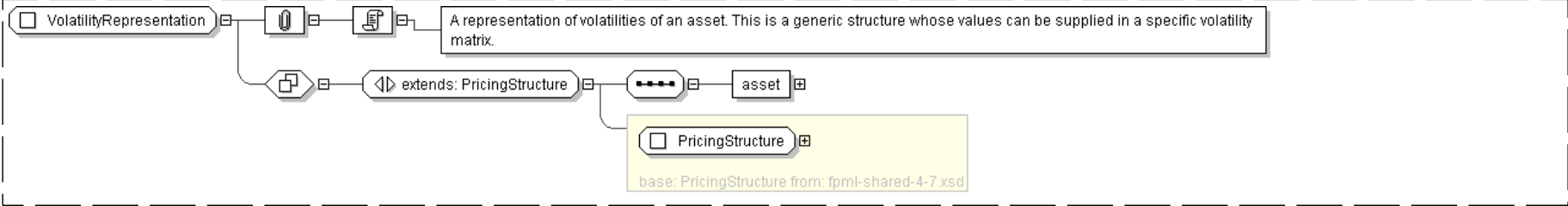
Complex Type: **VolatilityRepresentation**

Super-types:	<a href="#">PricingStructure</a> < <b>VolatilityRepresentation</b> (by extension)
Sub-types:	None
Name	VolatilityRepresentation
Used by (from the same schema document)	Element <a href="#">volatilityRepresentation</a>
Abstract	no
Documentation	A representation of volatilities of an asset. This is a generic structure whose values can be supplied in a specific volatility matrix.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <name> xsd:normalizedString </name> [0..1]  
    'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'  
  
    <currency> Currency </currency> [0..1]  
    'The currency that the structure is expressed in (this is relevant mostly for the Interest Rates asset class).'  
    <asset> AnyAssetReference </asset> [1]  
    'A reference to the asset whose volatility is modeled.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VolatilityRepresentation">  
  <xsd:complexContent>  
    <xsd:extension base=" PricingStructure ">  
      <xsd:sequence>  
        <xsd:element name="asset" type=" AnyAssetReference "/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **YieldCurve**

Super-types:	<a href="#">PricingStructure</a> < <b>YieldCurve</b> (by extension)
Sub-types:	None

Name	YieldCurve
Used by (from the same schema document)	Element <a href="#">yieldCurve</a>
Abstract	no
Documentation	A generic yield curve object, which can be valued in a variety of ways.

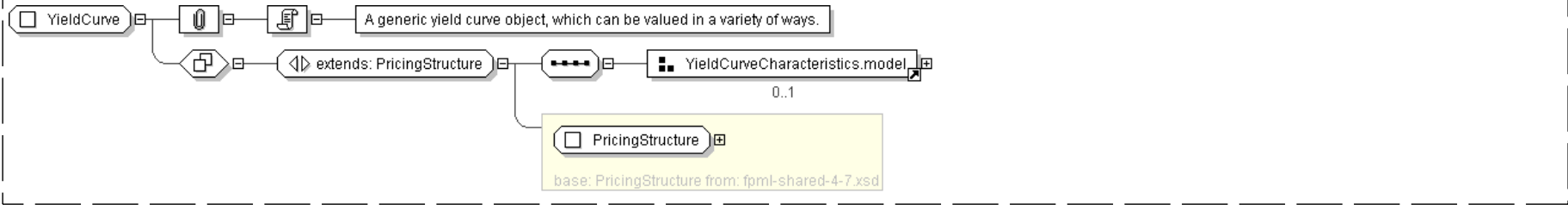
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'

  <currency> Currency </currency> [0..1]
  'The currency that the structure is expressed in (this is relevant mostly for the Interes
  Rates asset class).'

  Start Group: YieldCurveCharacteristics.model [0..1]
    <algorithm> xsd:string </algorithm> [0..1]
    <forecastRateIndex> ForecastRateIndex </forecastRateIndex> [0..1]
  End Group: YieldCurveCharacteristics.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="YieldCurve">
  <xsd:complexContent>
    <xsd:extension base=" PricingStructure "
      <xsd:sequence>
        <xsd:group ref=" YieldCurveCharacteristics.model " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **YieldCurveValuation**

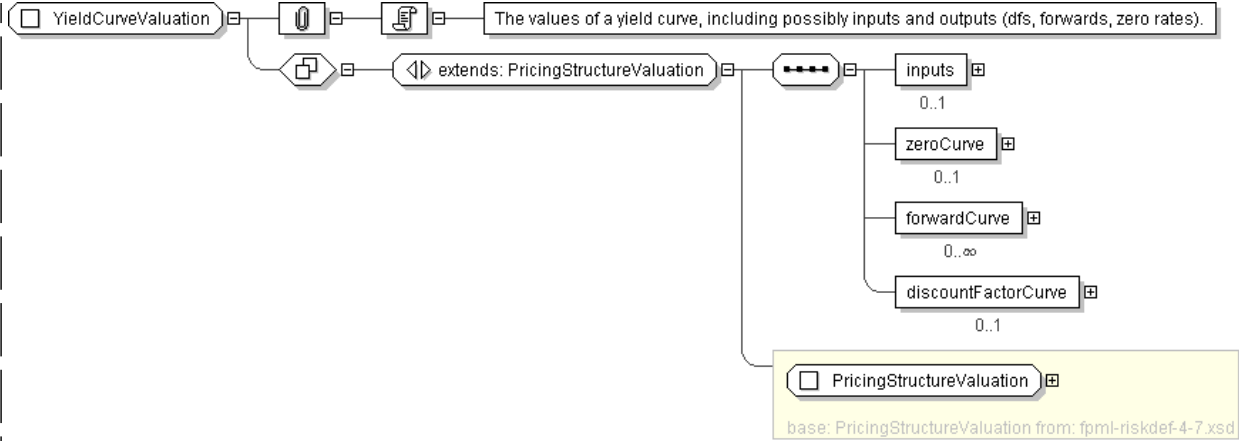
Super-types:	<a href="#">PricingStructureValuation</a> < <b>YieldCurveValuation</b> (by extension)
Sub-types:	None

Name	YieldCurveValuation
Used by (from the same schema document)	Element <a href="#">yieldCurveValuation</a>
Abstract	no
Documentation	The values of a yield curve, including possibly inputs and outputs (dfs, forwards, zero rates).

XML Instance Representation

```
<...
id=" xsd:ID [0..1]"
```





Schema Component Representation

```
<xsd:complexType name="YieldCurveValuation">
  <xsd:complexContent>
    <xsd:extension base="PricingStructureValuation">
      <xsd:sequence>
        <xsd:element name="inputs" type="QuotedAssetSet" minOccurs="0"/>
        <xsd:element name="zeroCurve" type="ZeroRateCurve" minOccurs="0"/>
        <xsd:element name="forwardCurve" type="ForwardRateCurve" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="discountFactorCurve" type="TermCurve" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ZeroRateCurve

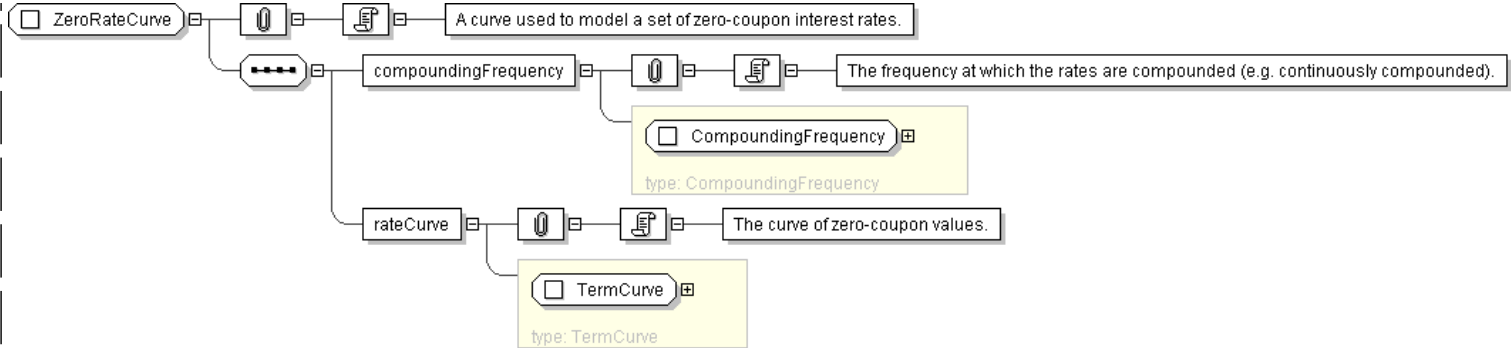
Super-types:	None
Sub-types:	None
Name	ZeroRateCurve
Used by (from the same schema document)	Complex Type <a href="#">YieldCurveValuation</a>
Abstract	no
Documentation	A curve used to model a set of zero-coupon interest rates.

XML Instance Representation

```
<...>
  <compoundingFrequency> CompoundingFrequency </compoundingFrequency> [1]
  'The frequency at which the rates are compounded (e.g. continuously compounded).'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="ZeroRateCurve">
  <xsd:sequence>
    <xsd:element name="compoundingFrequency" type="CompoundingFrequency" />
    <xsd:element name="rateCurve" type="TermCurve" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

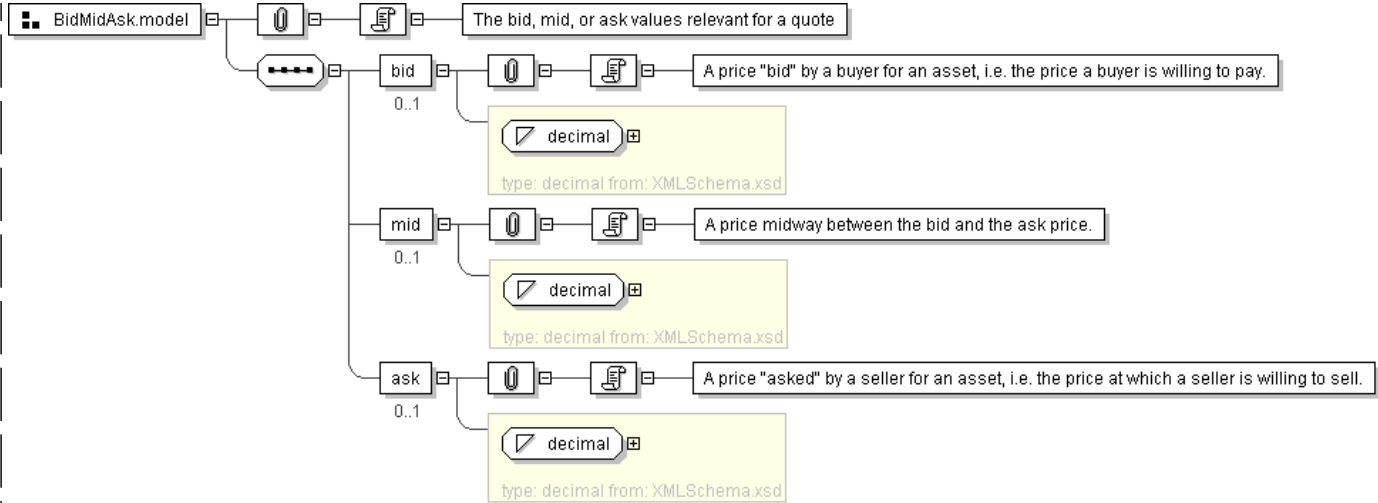
Model Group: BidMidAsk.model

Name	BidMidAsk.model
Used by (from the same schema document)	Complex Type <a href="#">TermPoint</a>
Documentation	The bid, mid, or ask values relevant for a quote

XML Instance Representation

```
<bid> xsd:decimal </bid> [0..1]
'A price \"bid\" by a buyer for an asset, i.e. the price a buyer is willing to pay.'
```

Diagram



Schema Component Representation

```
<xsd:group name="BidMidAsk.model">
  <xsd:sequence>
    <xsd:element name="bid" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="mid" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="ask" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **CreditCurveCharacteristics.model**

Name	CreditCurveCharacteristics.model
Used by (from the same schema document)	Complex Type <a href="#">CreditCurve</a>
Documentation	The set of characteristics that describe the outputs of a credit curve.

XML Instance Representation

```
Start Choice [1]
<referenceEntity> LegalEntity </referenceEntity> [1]
  'The entity for which this is defined.'
```

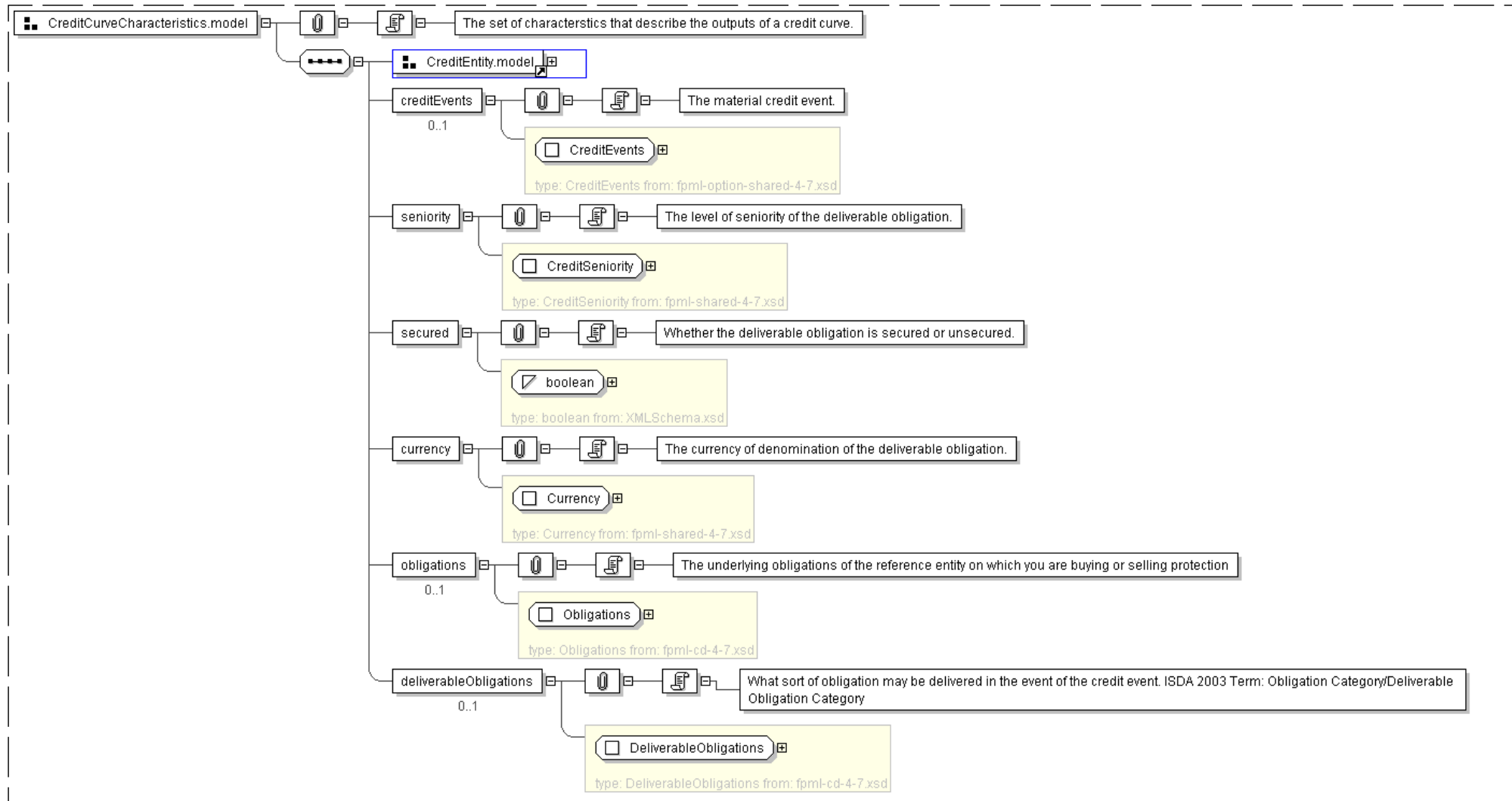
```
<obligations> Obligations </obligations> [0..1]
```

'The underlying obligations of the reference entity on which you are buying or selling protection'

```
<deliverableObligations> DeliverableObligations </deliverableObligations> [0..1]
```

'What sort of obligation may be delivered in the event of the credit event. ISDA 2003 Term: Obligation Category/Deliverable Obligation Category'

## Diagram



## Schema Component Representation

```

<xsd:group name="CreditCurveCharacteristics.model">
  <xsd:sequence>
    <xsd:group ref="CreditEntity.model"/>
    <xsd:element name="creditEvents" type="CreditEvents" minOccurs="0"/>
    <xsd:element name="seniority" type="CreditSeniority"/>
    <xsd:element name="secured" type="xsd:boolean"/>
    <xsd:element name="currency" type="Currency"/>
    <xsd:element name="obligations" type="Obligations" minOccurs="0"/>
    <xsd:element name="deliverableObligations" type="DeliverableObligations" minOccurs="0"/>
  
```

```
<xsd:element name="obligations" type=" Obligations " minOccurs="0"/>
<xsd:element name="deliverableObligations" type=" DeliverableObligations " minOccurs="0"/>
</xsd:sequence>
</xsd:group>
```

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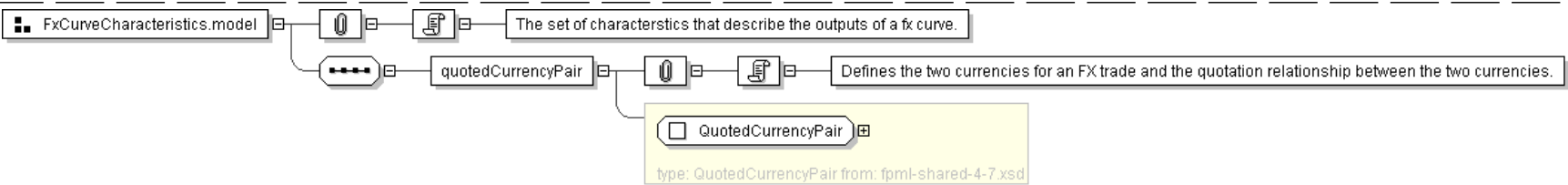
Model Group: **FxCurveCharacteristics.model**

Name	FxCurveCharacteristics.model
Used by (from the same schema document)	Complex Type <a href="#">FxCurve</a>
Documentation	The set of characteristics that describe the outputs of a fx curve.

XML Instance Representation

```
<quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
'Defines the two currencies for an FX trade and the quotation relationship between the two currencies.'
```

Diagram



Schema Component Representation

```
<xsd:group name="FxCurveCharacteristics.model">
  <xsd:sequence>
    <xsd:element name="quotedCurrencyPair" type=" QuotedCurrencyPair " />
  </xsd:sequence>
</xsd:group>
```

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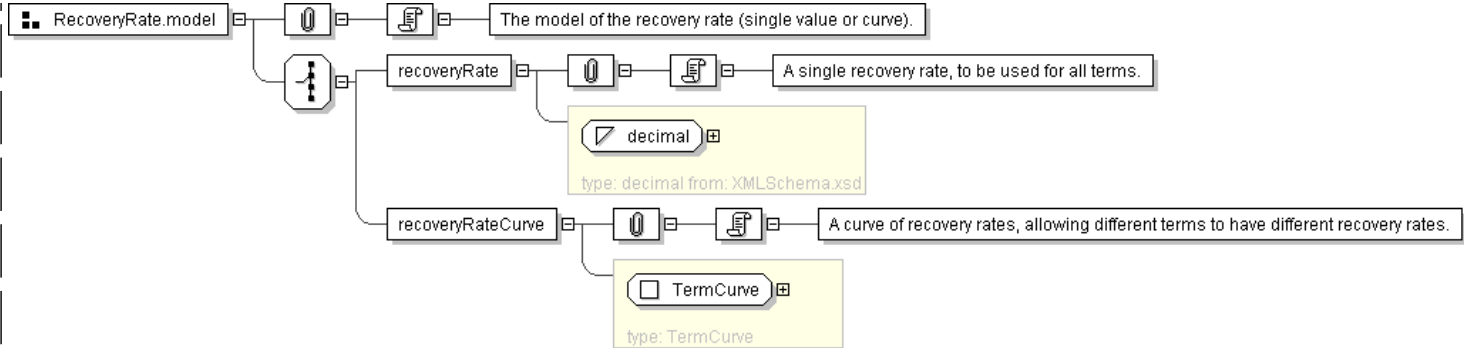
Model Group: **RecoveryRate.model**

Name	RecoveryRate.model
Used by (from the same schema document)	Complex Type <a href="#">CreditCurveValuation</a>
Documentation	The model of the recovery rate (single value or curve).

XML Instance Representation

```
Start Choice [1]
  <recoveryRate> xsd:decimal </recoveryRate> [1]
  'A single recovery rate, to be used for all terms.'
  <recoveryRateCurve> TermCurve </recoveryRateCurve> [1]
  'A curve of recovery rates, allowing different terms to have different recovery rates.'
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="RecoveryRate.model">
  <xsd:choice>
    <xsd:element name="recoveryRate" type=" xsd:decimal " />
    <xsd:element name="recoveryRateCurve" type=" TermCurve " />
  </xsd:choice>
</xsd:group>
```

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Model Group: UnderlyingAssetOrReference.model

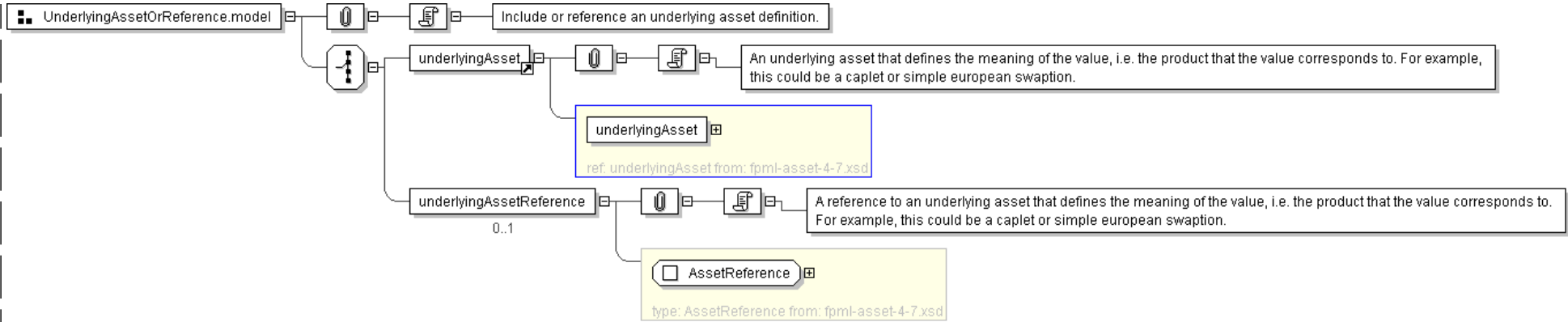
Name	UnderlyingAssetOrReference.model
Used by (from the same schema document)	Complex Type <a href="#">PricingStructurePoint</a>
Documentation	Include or reference an underlying asset definition.

XML Instance Representation

```
Start Choice [1]
<underlyingAsset> ... </underlyingAsset> [1]
'An underlying asset that defines the meaning of the value, i.e. the product that the
value corresponds to. For example, this could be a caplet or simple european swaption.'

<underlyingAssetReference> AssetReference </underlyingAssetReference> [0..1]
'A reference to an underlying asset that defines the meaning of the value, i.e. the
product that the value corresponds to. For example, this could be a caplet or simple
european swaption.'
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="UnderlyingAssetOrReference.model">
  <xsd:choice>
    <xsd:element ref="underlyingAsset" />
    <xsd:element name="underlyingAssetReference" type="AssetReference" minOccurs="0"/>
  </xsd:choice>
</xsd:group>
```

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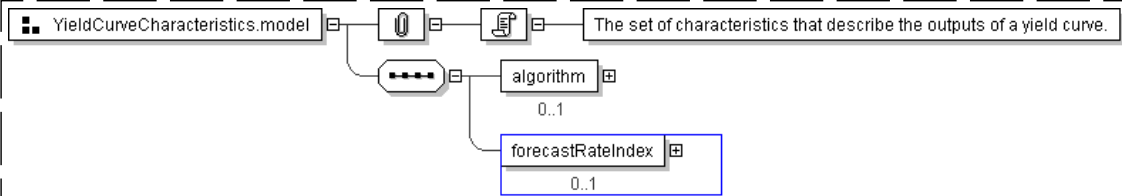
Model Group: **YieldCurveCharacteristics.model**

Name	YieldCurveCharacteristics.model
Used by (from the same schema document)	Complex Type <a href="#">YieldCurve</a>
Documentation	The set of characteristics that describe the outputs of a yield curve.

XML Instance Representation

```
<algorithm> xsd:string </algorithm> [0..1]
<forecastRateIndex> ForecastRateIndex </forecastRateIndex> [0..1]
```

Diagram



Schema Component Representation

```
<xsd:group name="YieldCurveCharacteristics.model">
  <xsd:sequence>
    <xsd:element name="algorithm" type="xsd:string" minOccurs="0"/>
    <xsd:element name="forecastRateIndex" type="ForecastRateIndex" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Legend

Complex Type:  
Schema Component Type

AusAddress  
Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; <a href="#">AusStates</a> &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base="Address"&gt; &lt;sequence&gt; &lt;element name="state" type="AusStates"/&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base="string"&gt; &lt;pattern value="[1-9][0-9]{3}"/&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type="string" fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
--

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).





# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none"><li><a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a> (at <a href="#">xmldsig-core-schema.xsd</a>)</li></ul></li><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li><a href="#">fpml-doc-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:import namespace="http://www.w3.org/2000/09/xmldsig#" schemaLocation="xmldsig-core-schema.xsd" />
  <xsd:include schemaLocation="fpml-doc-4-7.xsd" />
  ...
</xsd:schema>
```

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Global Definitions

Complex Type: **AdditionalData**

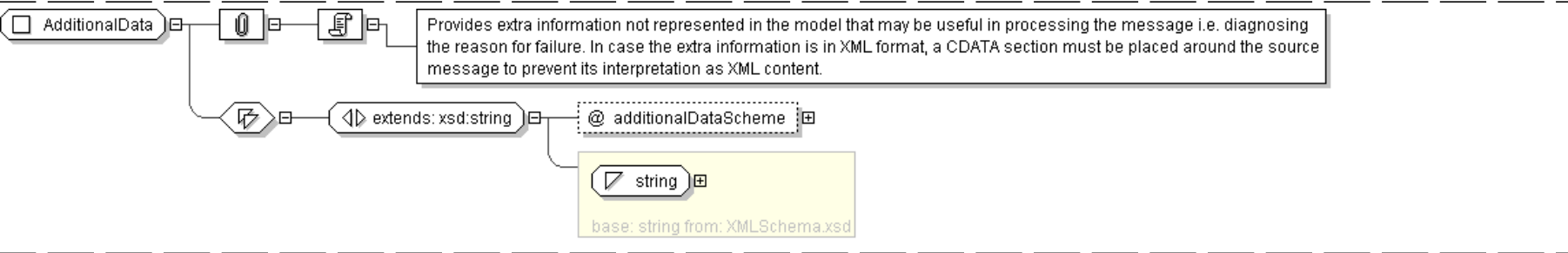
Super-types:	<a href="#">xsd:string</a> < <b>AdditionalData</b> (by extension)
Sub-types:	None

Name	AdditionalData
Used by (from the same schema document)	Complex Type <a href="#">Reason</a> , Model Group <a href="#">Exception.model</a>
Abstract	no
Documentation	Provides extra information not represented in the model that may be useful in processing the message i.e. diagnosing the reason for failure. In case the extra information is in XML format, a CDATA section must be placed around the source message to prevent its interpretation as XML content.

XML Instance Representation

```
<...
  additionalDataScheme=" xsd:anyURI [0..1]">
  xsd:string
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdditionalData">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="additionalDataScheme" type="xsd:anyURI" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: ConversationId

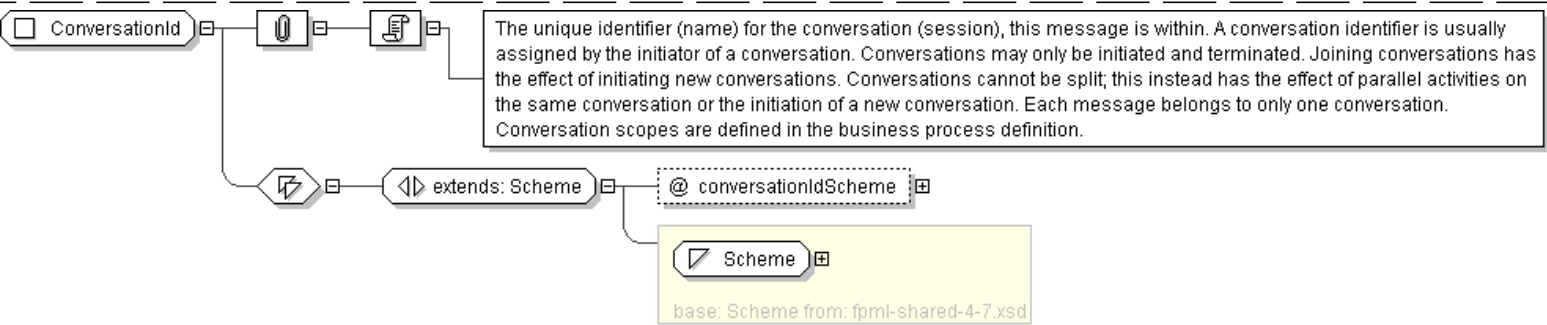
Super-types:	<a href="#">Scheme</a> < ConversationId (by extension)
Sub-types:	None

Name	ConversationId
Used by (from the same schema document)	Complex Type <a href="#">MessageHeader</a>
Abstract	no
Documentation	The unique identifier (name) for the conversation (session), this message is within. A conversation identifier is usually assigned by the initiator of a conversation. Conversations may only be initiated and terminated. Joining conversations has the effect of initiating new conversations. Conversations cannot be split; this instead has the effect of parallel activities on the same conversation or the initiation of a new conversation. Each message belongs to only one conversation. Conversation scopes are defined in the business process definition.

XML Instance Representation

```
<...
  conversationIdScheme="xsd:anyURI [1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ConversationId">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="conversationIdScheme" type="xsd:anyURI" use="required"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type: **Message**

Super-types:

Sub-types:

[Document](#) < **Message** (by extension)

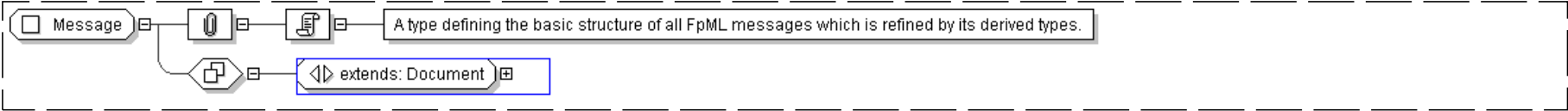
- [NotificationMessage](#) (by extension)
  - [MessageRejected](#) (by extension)
- [RequestMessage](#) (by extension)
  - [RequestTradeStatus](#) (by extension)
- [ResponseMessage](#) (by extension)
  - [TradeNotFound](#) (by extension)
  - [TradeStatus](#) (by extension)
  - [TradeErrorResponse](#) (by extension)
    - [TradeAlreadyCancelled](#) (by extension)
    - [TradeAlreadyTerminated](#) (by extension)
  - [TradeAlreadySubmitted](#) (by extension)

Name	Message
Abstract	yes
Documentation	A type defining the basic structure of all FpML messages which is refined by its derived types.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Message" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" Document " />
  </xsd:complexContent>
</xsd:complexType>
```

```
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **MessageAddress**

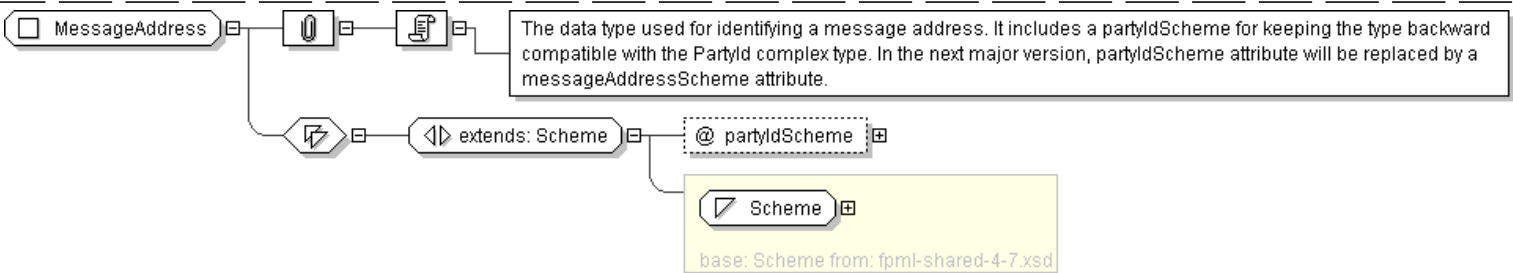
Super-types:	<a href="#">Scheme</a> < <b>MessageAddress</b> (by extension)
Sub-types:	None

Name	MessageAddress
Used by (from the same schema document)	Model Group <a href="#">MessageHeader.model</a> , Model Group <a href="#">MessageHeader.model</a> , Model Group <a href="#">MessageHeader.model</a>
Abstract	no
Documentation	The data type used for identifying a message address. It includes a partyIdScheme for keeping the type backward compatible with the PartyId complex type. In the next major version, partyIdScheme attribute will be replaced by a messageAddressScheme attribute.

XML Instance Representation

```
<...
partyIdScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MessageAddress">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="partyIdScheme" type=" xsd:anyURI " default="http://www.fpml.org/
        ext/iso9362"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type: **MessageHeader**

Super-types:	None
--------------	------

Sub-types:	<ul style="list-style-type: none"><li><a href="#">NotificationMessageHeader</a> (by extension)</li><li><a href="#">RequestMessageHeader</a> (by extension)</li><li><a href="#">ResponseMessageHeader</a> (by extension)</li></ul>
------------	---

Name	MessageHeader
Abstract	yes
Documentation	A type defining the content model for a generic message header that is refined by its derived classes.

XML Instance Representation

<...>

<conversationId> ConversationId </conversationId> [0..1]

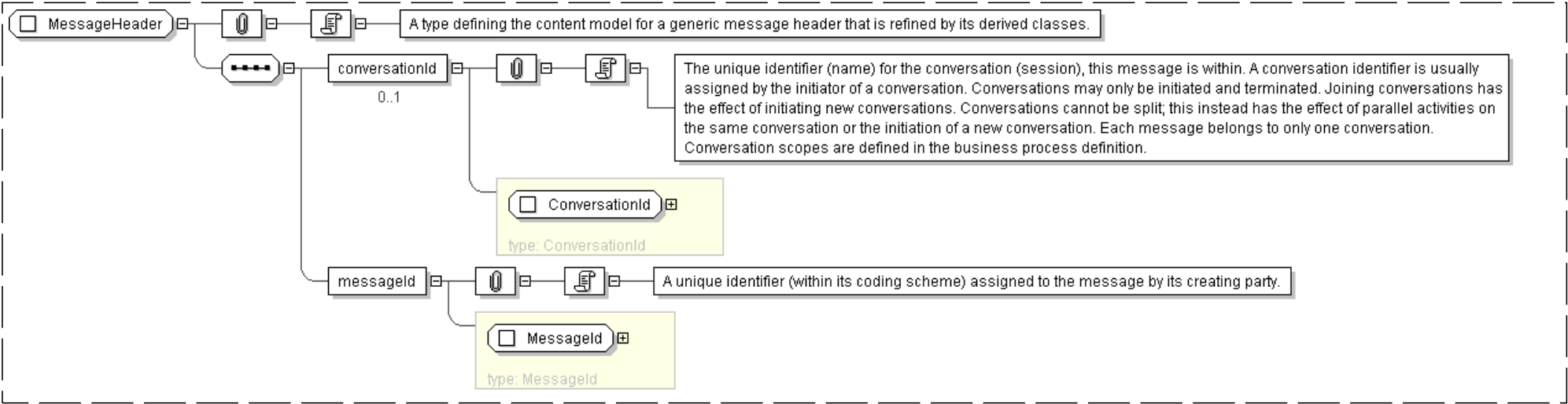
'The unique identifier (name) for the conversation (session), this message is within. A conversation identifier is usually assigned by the initiator of a conversation. Conversations may only be initiated and terminated. Joining conversations has the effect of initiating new conversations. Conversations cannot be split; this instead has the effect of parallel activities on the same conversation or the initiation of a new conversation. Each message belongs to only one conversation. Conversation scopes are defined in the business process definition.'

<messageId> MessageId </messageId> [1]

'A unique identifier (within its coding scheme) assigned to the message by its creating party.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="MessageHeader" abstract="true">
  <xsd:sequence>
    <xsd:element name="conversationId" type=" ConversationId " minOccurs="0"/>
    <xsd:element name="messageId" type=" MessageId "/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **MessageId**

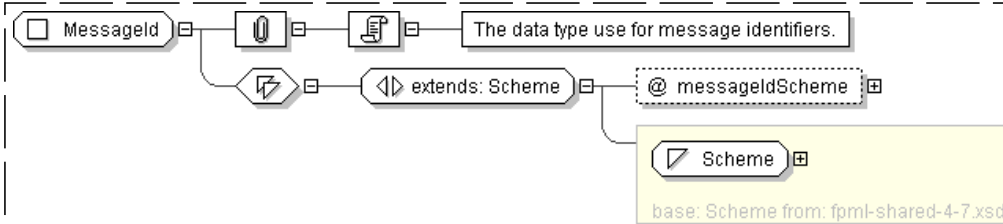
Super-types:	<a href="#">Scheme</a> < <b>MessageId</b> (by extension)
Sub-types:	None

<b>Name</b>	MessageId
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">MessageHeader</a> , Complex Type <a href="#">NotificationMessageHeader</a> , Complex Type <a href="#">ResponseMessageHeader</a>
<b>Abstract</b>	no
<b>Documentation</b>	The data type use for message identifiers.

## XML Instance Representation

```
<...
messageIdScheme=" xsd:anyURI [1]">
Scheme
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="MessageId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="messageIdScheme" type=" xsd:anyURI " use="required"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)Complex Type: **MessageRejected**

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <a href="#">NotificationMessage</a> (by extension) < <b>MessageRejected</b> (by extension)
Sub-types:	None

<b>Name</b>	MessageRejected
<b>Abstract</b>	no
<b>Documentation</b>	A type defining the content for a standard message sent when a recipient cannot interpret or process an earlier message.

## XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```



```

"
expectedBuild=" xsd:positiveInteger [0..1]

'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <reason> Reason </reason> [1..*]

  'An instance of the Reason type used to record the nature of any errors associated with
  a message.'

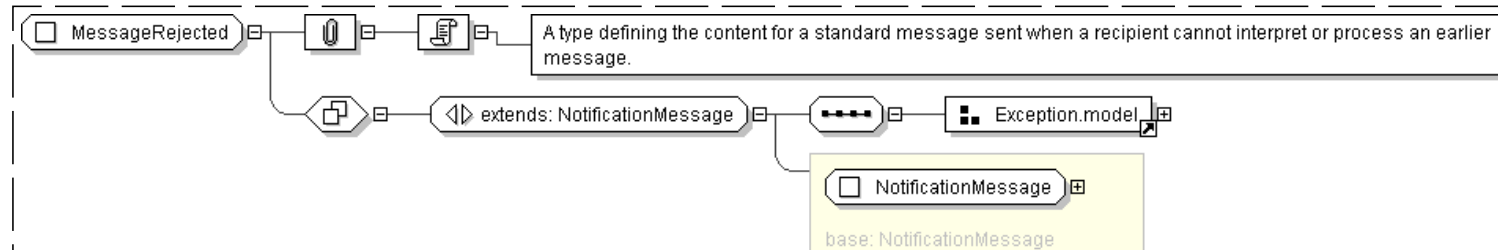
  <additionalData> AdditionalData </additionalData> [0..1]

  'Any string of additional data that may help the message processor, for example in a
  rejection message this might contain a code value or the text of the original request (within
  a CDATA section).'

</...>

```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="MessageRejected">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:group ref=" Exception.model "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

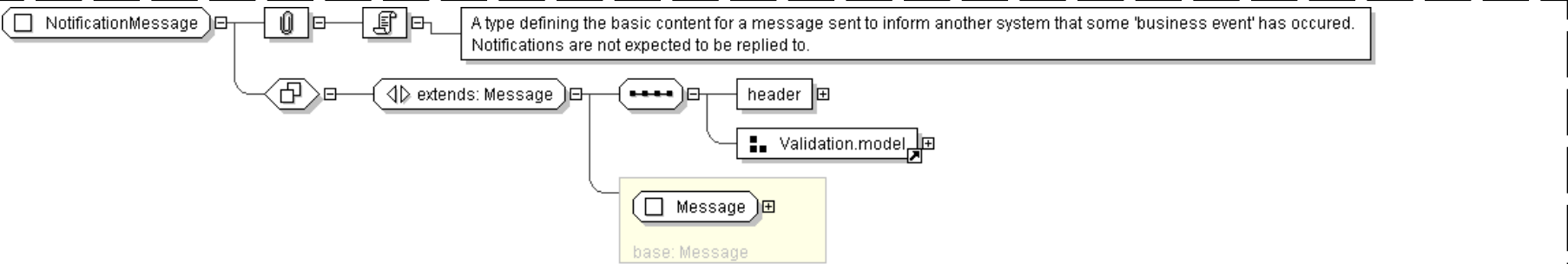
Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <b>NotificationMessage</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">MessageRejected</a> (by extension)</li></ul>

Name	NotificationMessage
Abstract	yes
Documentation	A type defining the basic content for a message sent to inform another system that some 'business event' has occurred. Notifications are not expected to be replied to.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotificationMessage" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" Message ">
      <xsd:sequence>
        <xsd:element name="header" type=" NotificationMessageHeader "/>
        <xsd:group ref=" Validation.model "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **NotificationMessageHeader**

Super-types:	<a href="#">MessageHeader</a> < <b>NotificationMessageHeader</b> (by extension)
Sub-types:	None

Name	NotificationMessageHeader
Used by (from the same schema document)	Complex Type <a href="#">NotificationMessage</a>
Abstract	no
Documentation	A type that refines the generic message header to match the requirements of a NotificationMessage.

XML Instance Representation

```
<...>
<conversationId> ConversationId </conversationId> [0..1]
'The unique identifier (name) for the conversation (session), this message is within.
A conversation identifier is usually assigned by the initiator of a conversation.
Conversations may only be initiated and terminated. Joining conversations has the effect
of initiating new conversations. Conversations cannot be split; this instead has the effect
of parallel activities on the same conversation or the initiation of a new conversation.
Each message belongs to only one conversation. Conversation scopes are defined in the
business process definition.'

<messageId> MessageId </messageId> [1]
'A unique identifier (within its coding scheme) assigned to the message by its creating party.'

<inReplyTo> MessageId </inReplyTo> [0..1]
'A copy of the unique message identifier (within it own coding scheme) to which this message
is responding.'

<sentBy> MessageAddress </sentBy> [1]
'The unique identifier (within its coding scheme) for the originator of a message instance.'

<sendTo> MessageAddress </sendTo> [0..*]
'A unique identifier (within its coding scheme) indicating an intended recipient of a message.'

<copyTo> MessageAddress </copyTo> [0..*]
'A unique identifier (within the specified coding scheme) giving the details of some party
to whom a copy of this message will be sent for reference.'

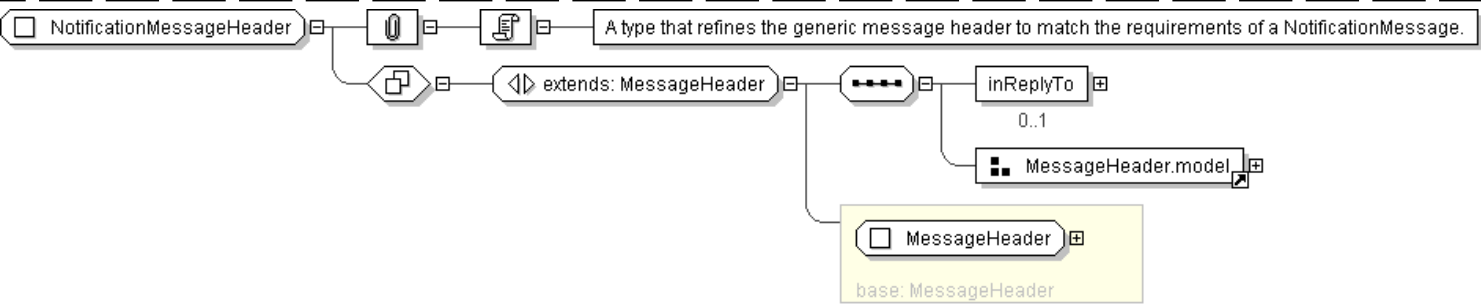
<creationTimestamp> xsd:dateTime </creationTimestamp> [1]
'The date and time (on the source system) when this message instance was created.'

<expiryTimestamp> xsd:dateTime </expiryTimestamp> [0..1]
'The date and time (on the source system) when this message instance will be
considered expired.'

<partyMessageInformation> PartyMessageInformation </partyMessageInformation> [0..*]
'Additional message information that may be provided by each involved party.'
```

```
<dsig:Signature> ... </dsig:Signature> [0..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotificationMessageHeader">  
  <xsd:complexContent>  
    <xsd:extension base=" MessageHeader ">  
      <xsd:sequence>  
        <xsd:element name="inReplyTo" type=" MessageId " minOccurs="0"/>  
        <xsd:group ref=" MessageHeader.model " />  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

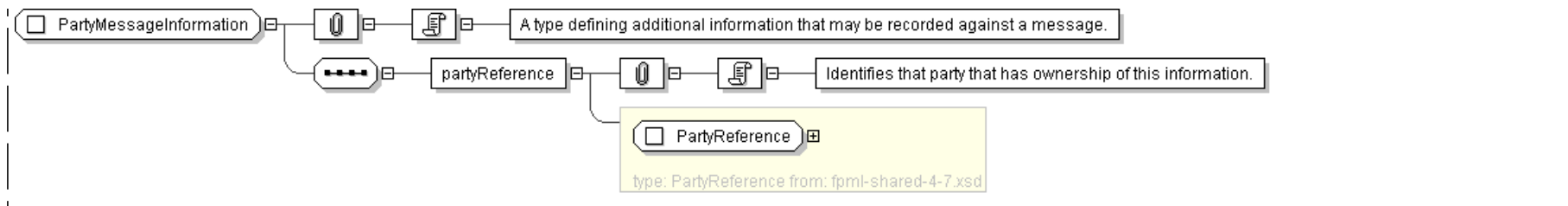
Complex Type: PartyMessageInformation

Super-types:	None
Sub-types:	None
Name	PartyMessageInformation
Used by (from the same schema document)	Model Group <a href="#">MessageHeader.model</a>
Abstract	no
Documentation	A type defining additional information that may be recorded against a message.

XML Instance Representation

```
<...>  
  <partyReference> PartyReference </partyReference> [1]  
  'Identifies that party that has ownership of this information.'  
</...>
```

Diagram



### Schema Component Representation

```

<xsd:complexType name="PartyMessageInformation">
  <xsd:sequence>
    <xsd:element name="partyReference" type="PartyReference" />
  </xsd:sequence>
</xsd:complexType>
  
```

[top](#)

## Complex Type: ProblemLocation

Super-types: [xsd:normalizedString](#) < **ProblemLocation** (by extension)

Sub-types: None

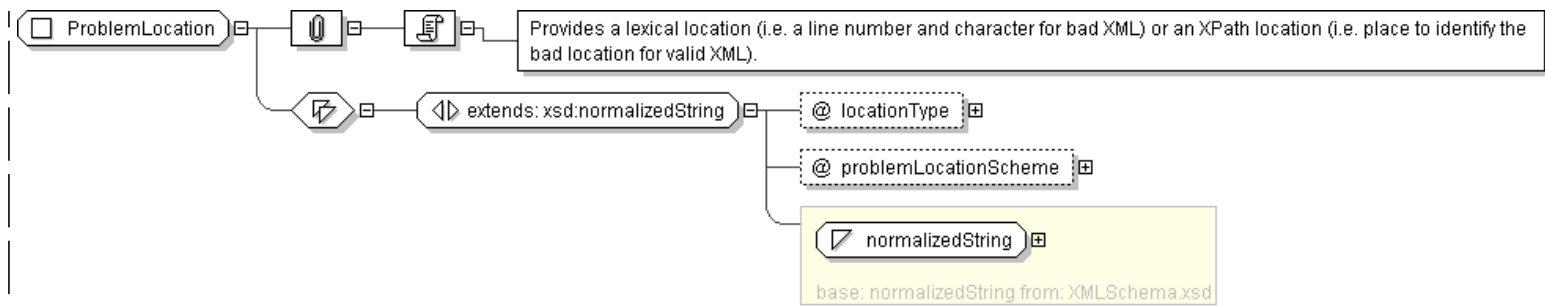
<b>Name</b>	ProblemLocation
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">Reason</a>
<b>Abstract</b>	no
<b>Documentation</b>	Provides a lexical location (i.e. a line number and character for bad XML) or an XPath location (i.e. place to identify the bad location for valid XML).

### XML Instance Representation

```

<...
locationType="xsd:token" [0..1]
  'The value of the locationType attribute defines which type of location has been given. It
  may take the values \'lexical\' or \'xpath\''
"
problemLocationScheme="xsd:anyURI" [0..1]
  'DEPRECATED. It will be removed in FpML 5.0. New implementations are encouraged to use
  the locationType attribute.'
">
xsd:normalizedString
</...>
  
```

### Diagram



### Schema Component Representation

```
<xsd:complexType name="ProblemLocation">
  <xsd:simpleContent>
    <xsd:extension base="xsd:normalizedString">
      <xsd:attribute name="locationType" type="xsd:token"/>
      <xsd:attribute name="problemLocationScheme" type="xsd:anyURI"
        deprecated="true" deprecatedReason="This attribute was introduced by mistake in FpML
        4.2. instead of keeping the locationType attribute."/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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## Complex Type: Reason

Super-types:	None
Sub-types:	None

<b>Name</b>	Reason
<b>Used by (from the same schema document)</b>	Model Group <a href="#">Exception.model</a>
<b>Abstract</b>	no
<b>Documentation</b>	A type defining a content model for describing the nature and possible location of a error within a previous message.

### XML Instance Representation

```
<...>
  <reasonCode> ReasonCode </reasonCode> [1]
  'A machine interpretable error code.'

  <location> ProblemLocation </location> [0..1]
  'A value indicating the location of the problem within the subject message.'

  <description> xsd:string </description> [0..1]
  'Plain English text describing the associated error condition'

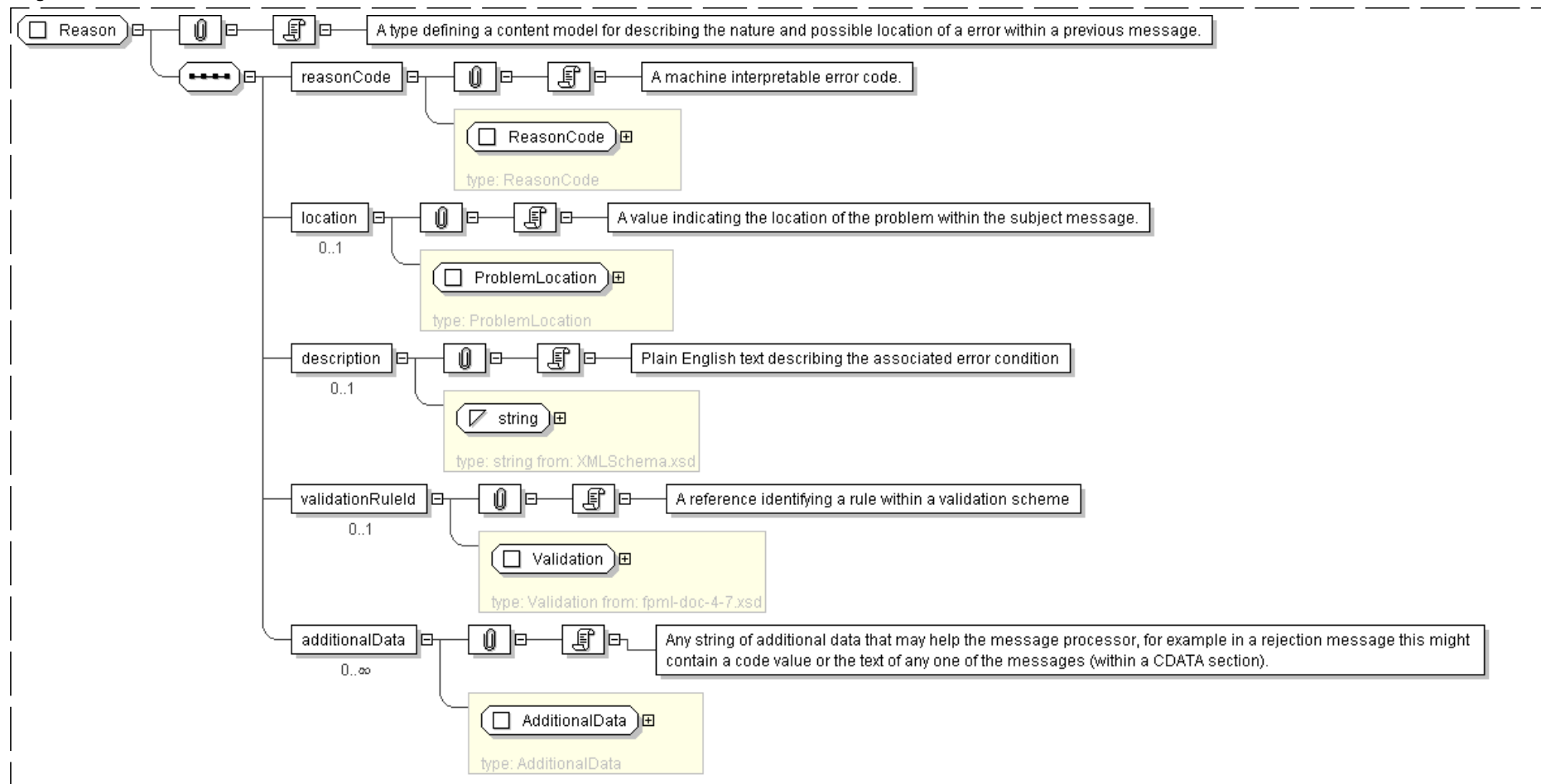
  <validationRuleId> Validation </validationRuleId> [0..1]
  'A reference identifying a rule within a validation scheme'

  <additionalData> AdditionalData </additionalData> [0..*]
  'Any string of additional data that may help the message processor, for example in a
  rejection message this might contain a code value or the text of any one of the
```

```
messages (within a CDATA section).'
```

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="Reason">
  <xsd:sequence>
    <xsd:element name="reasonCode" type="ReasonCode" />
    <xsd:element name="location" type="ProblemLocation" minOccurs="0"/>
    <xsd:element name="description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="validationRuleId" type="Validation" minOccurs="0"/>
    <xsd:element name="additionalData" type="AdditionalData" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

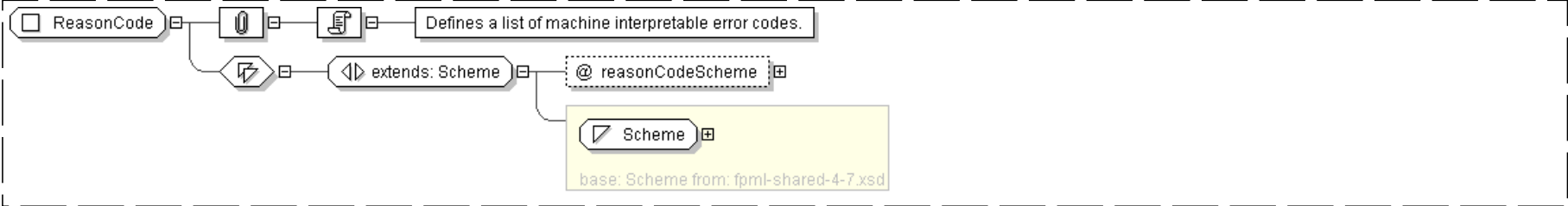
Super-types:	<a href="#">Scheme</a> < <b>ReasonCode</b> (by extension)
Sub-types:	None

Name	ReasonCode
Used by (from the same schema document)	Complex Type <a href="#">Reason</a>
Abstract	no
Documentation	Defines a list of machine interpretable error codes.

XML Instance Representation

```
<...  
  reasonCodeScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReasonCode">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme "  
      <xsd:attribute name="reasonCodeScheme" type=" xsd:anyURI " default="http://www.fpml.org/  
        coding-scheme/reason-code"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **RequestMessage**

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <b>RequestMessage</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">RequestTradeStatus</a> (by extension)</li></ul>

Name	RequestMessage
Abstract	yes
Documentation	A type defining the basic content of a message that requests the receiver to perform some business operation determined by the message type and its content.

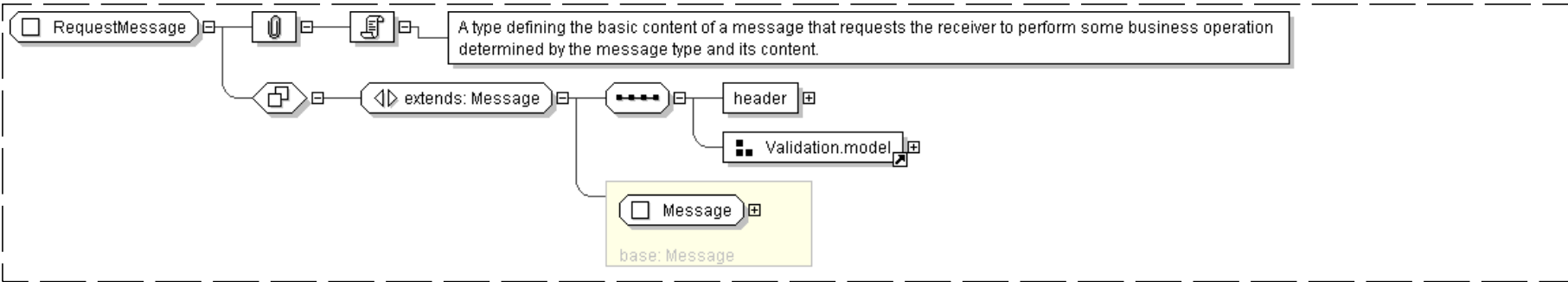
XML Instance Representation

```
<...  
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
  'Indicate which version of the FpML Schema an FpML message adheres to.'
```



```
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
<header> RequestMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestMessage" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="Message" />
    <xsd:sequence>
      <xsd:element name="header" type="RequestMessageHeader" />
      <xsd:group ref="Validation.model" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: RequestMessageHeader

Super-types:	<a href="#">MessageHeader</a> < <b>RequestMessageHeader</b> (by extension)
Sub-types:	None

Name	RequestMessageHeader
Used by (from the same schema document)	Complex Type <a href="#">RequestMessage</a>

Abstract	no
Documentation	A type refining the generic message header content to make it specific to request messages.

XML Instance Representation

<...>

<conversationId> ConversationId </conversationId> [0..1]

'The unique identifier (name) for the conversation (session), this message is within. A conversation identifier is usually assigned by the initiator of a conversation. Conversations may only be initiated and terminated. Joining conversations has the effect of initiating new conversations. Conversations cannot be split; this instead has the effect of parallel activities on the same conversation or the initiation of a new conversation. Each message belongs to only one conversation. Conversation scopes are defined in the business process definition.'

<messageId> MessageId </messageId> [1]

'A unique identifier (within its coding scheme) assigned to the message by its creating party.'

<sentBy> MessageAddress </sentBy> [1]

'The unique identifier (within its coding scheme) for the originator of a message instance.'

<sendTo> MessageAddress </sendTo> [0..\*]

'A unique identifier (within its coding scheme) indicating an intended recipient of a message.'

<copyTo> MessageAddress </copyTo> [0..\*]

'A unique identifier (within the specified coding scheme) giving the details of some party to whom a copy of this message will be sent for reference.'

<creationTimestamp> xsd:dateTime </creationTimestamp> [1]

'The date and time (on the source system) when this message instance was created.'

<expiryTimestamp> xsd:dateTime </expiryTimestamp> [0..1]

'The date and time (on the source system) when this message instance will be considered expired.'

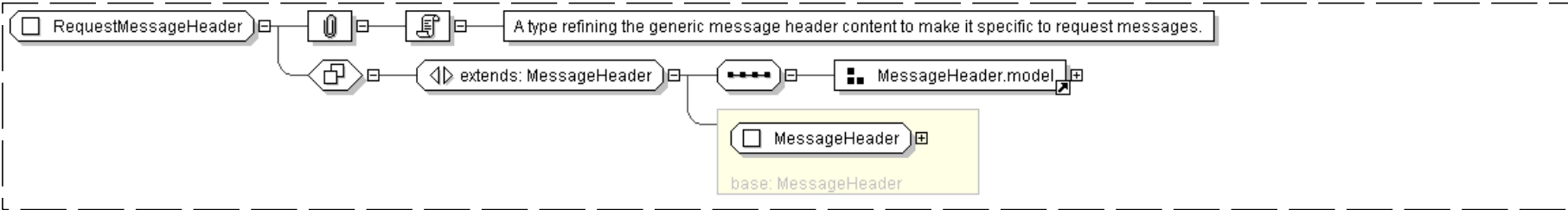
<partyMessageInformation> PartyMessageInformation </partyMessageInformation> [0..\*]

'Additional message information that may be provided by each involved party.'

<dsig:Signature> ... </dsig:Signature> [0..\*]

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestMessageHeader">
  <xsd:complexContent>
    <xsd:extension base="MessageHeader"/>
  </xsd:complexContent>
</xsd:complexType>
```

```
<xsd:sequence>
  <xsd:group ref=" MessageHeader.model " />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **RequestTradeStatus**

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <a href="#">RequestMessage</a> (by extension) < <b>RequestTradeStatus</b> (by extension)
Sub-types:	None

Name	RequestTradeStatus
Abstract	no
Documentation	A type defining the content model for a message allowing one party to query the status of one or many trades previously sent to another party.

XML Instance Representation

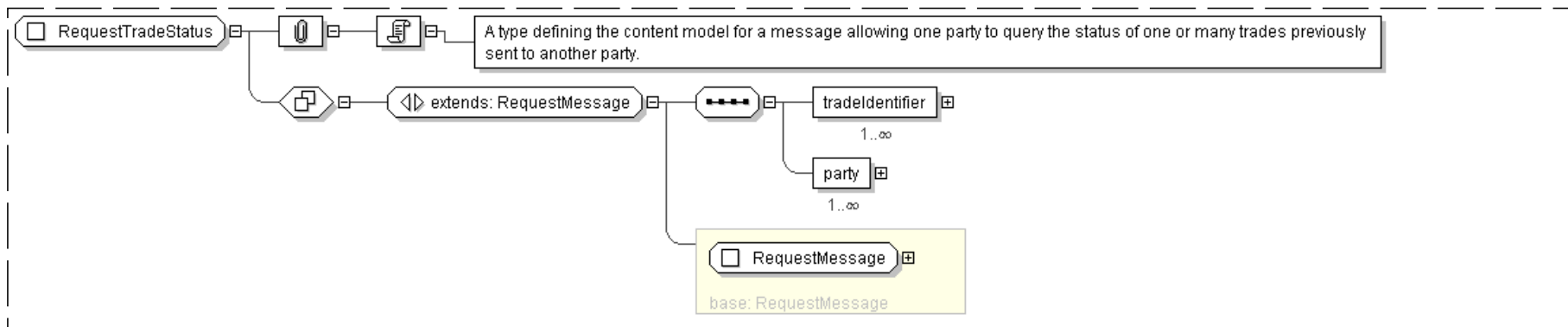
```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1..*]
  'An instance of a unique trade identifier.'

  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>
```

Diagram



### Schema Component Representation

```
<xsd:complexType name="RequestTradeStatus">
  <xsd:complexContent>
    <xsd:extension base="RequestMessage">
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type="TradeIdentifier" maxOccurs="unbounded"/>
        <xsd:element name="party" type="Party" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

## Complex Type: ResponseMessage

**Super-types:** [Document](#) < [Message](#) (by extension) < **ResponseMessage** (by extension)

**Sub-types:**

- [TradeNotFound](#) (by extension)
- [TradeStatus](#) (by extension)
- [TradeErrorResponse](#) (by extension)
  - [TradeAlreadyCancelled](#) (by extension)
  - [TradeAlreadyTerminated](#) (by extension)
- [TradeAlreadySubmitted](#) (by extension)

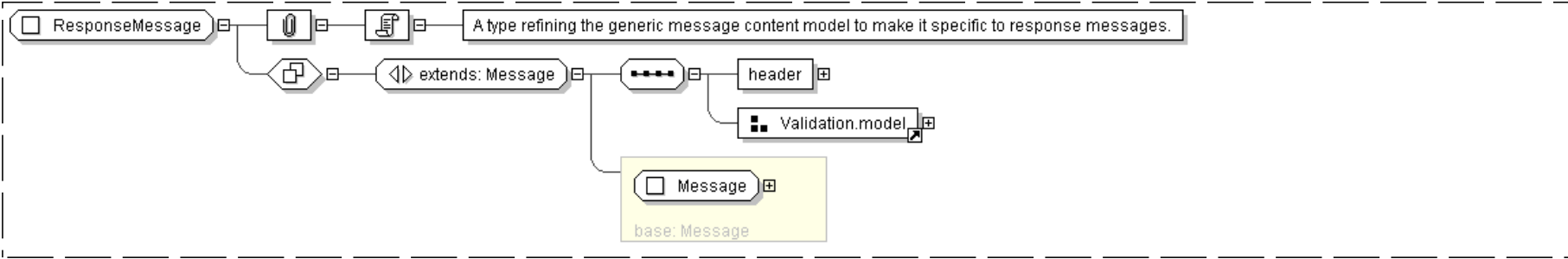
<b>Name</b>	ResponseMessage
<b>Abstract</b>	yes
<b>Documentation</b>	A type refining the generic message content model to make it specific to response messages.

### XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'
```

```
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ResponseMessage" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" Message " >
      <xsd:sequence>
        <xsd:element name="header" type=" ResponseMessageHeader " />
        <xsd:group ref=" Validation.model " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: ResponseMessageHeader

Super-types:	<a href="#">MessageHeader</a> < ResponseMessageHeader (by extension)
Sub-types:	None
Name	ResponseMessageHeader
Used by (from the same schema document)	Complex Type <a href="#">ResponseMessage</a>
Abstract	no
Documentation	A type refining the generic message header to make it specific to response messages.

XML Instance Representation

```
<...>
  <conversationId> ConversationId </conversationId> [0..1]
```

'The unique identifier (name) for the conversation (session), this message is within. A conversation identifier is usually assigned by the initiator of a conversation. Conversations may only be initiated and terminated. Joining conversations has the effect of initiating new conversations. Conversations cannot be split; this instead has the effect of parallel activities on the same conversation or the initiation of a new conversation. Each message belongs to only one conversation. Conversation scopes are defined in the business process definition.'

<messageId> MessageId </messageId> [1]

'A unique identifier (within its coding scheme) assigned to the message by its creating party.'

<inReplyTo> MessageId </inReplyTo> [1]

'A copy of the unique message identifier (within it own coding scheme) to which this message is responding.'

<sentBy> MessageAddress </sentBy> [1]

'The unique identifier (within its coding scheme) for the originator of a message instance.'

<sendTo> MessageAddress </sendTo> [0..\*]

'A unique identifier (within its coding scheme) indicating an intended recipient of a message.'

<copyTo> MessageAddress </copyTo> [0..\*]

'A unique identifier (within the specified coding scheme) giving the details of some party to whom a copy of this message will be sent for reference.'

<creationTimestamp> xsd:dateTime </creationTimestamp> [1]

'The date and time (on the source system) when this message instance was created.'

<expiryTimestamp> xsd:dateTime </expiryTimestamp> [0..1]

'The date and time (on the source system) when this message instance will be considered expired.'

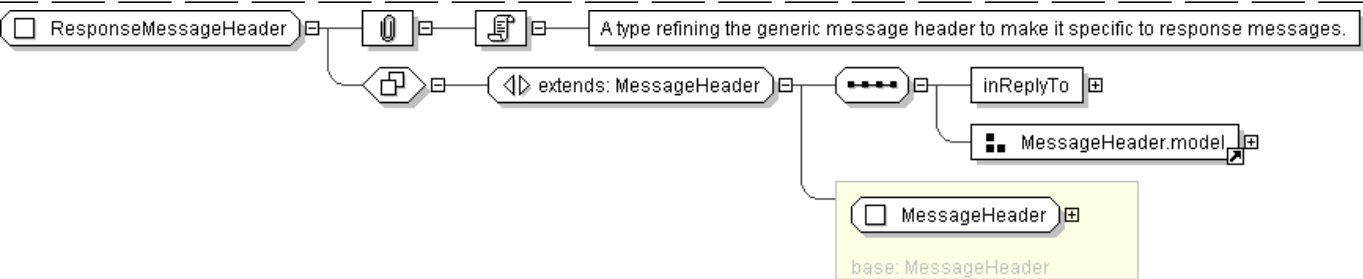
<partyMessageInformation> PartyMessageInformation </partyMessageInformation> [0..\*]

'Additional message information that may be provided by each involved party.'

<dsig:Signature> ... </dsig:Signature> [0..\*]

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ResponseMessageHeader">
  <xsd:complexContent>
    <xsd:extension base=" MessageHeader "
      <xsd:sequence>
```

```
<xsd:element name="inReplyTo" type=" MessageId " />
<xsd:group ref=" MessageHeader.model " />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **TradeAlreadyCancelled**

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <a href="#">ResponseMessage</a> (by extension) < <a href="#">TradeErrorResponse</a> (by extension) < <b>TradeAlreadyCancelled</b> (by extension)
Sub-types:	None

Name	TradeAlreadyCancelled
Abstract	no
Documentation	An error response message indicating that a trade has already been cancelled.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
Start Choice [1]
    <trade> Trade </trade> [1]
    'An element that allows the full details of the trade to be used as a mechanism for identifying the trade for which the post-trade event pertains'

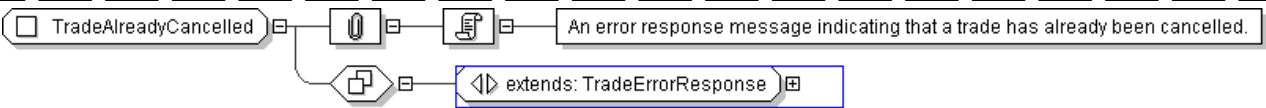
    <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
    'A container since an individual trade can be referenced by two or more different partyTradeIdentifier elements - each allocated by a different party.'

  End Choice
  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time
```

to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAlreadyCancelled">
  <xsd:complexContent>
    <xsd:extension base=" TradeErrorResponse " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeAlreadySubmitted

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <a href="#">ResponseMessage</a> (by extension) < <b>TradeAlreadySubmitted</b> (by extension)
Sub-types:	None

Name	TradeAlreadySubmitted
Abstract	no
Documentation	A type defining the content model for a message sent by a confirmation provider when it believes that one party has repeated a request to confirm a trade.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
```



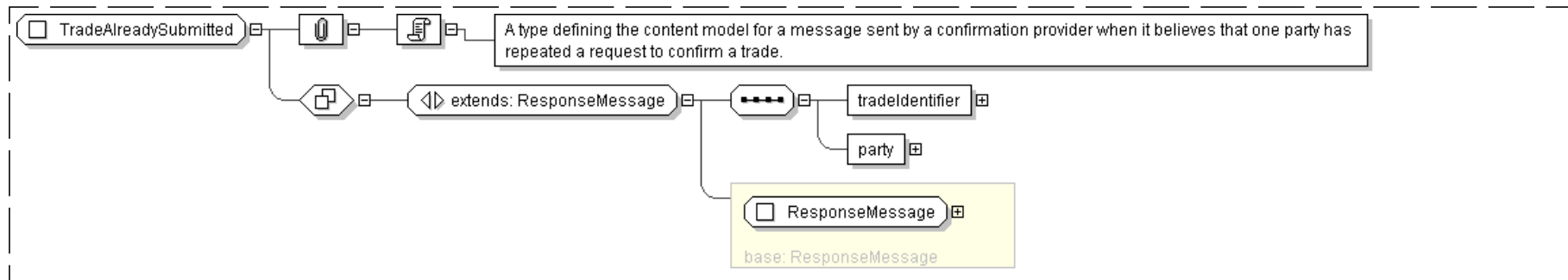
```
<validation> Validation </validation> [0..*]
<tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
'An instance of a unique trade identifier.'
```

```
<party> Party </party> [1]
```

'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="TradeAlreadySubmitted">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type=" TradeIdentifier "/>
        <xsd:element name="party" type=" Party "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

## Complex Type: **TradeAlreadyTerminated**

Super-types:

[Document](#) < [Message](#) (by extension) < [ResponseMessage](#) (by extension) < [TradeErrorResponse](#) (by extension) < **TradeAlreadyTerminated**  
(by extension)

Sub-types:

None

<b>Name</b>	TradeAlreadyTerminated
<b>Abstract</b>	no
<b>Documentation</b>	An error response message indicating that a trade has already been terminated.

#### XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
```

```

[7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
Start Choice [1]
  <trade> Trade </trade> [1]
  'An element that allows the full details of the trade to be used as a mechanism for
  identifying the trade for which the post-trade event pertains'

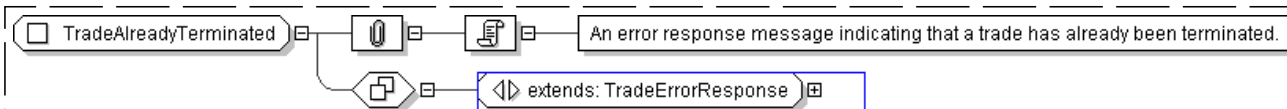
  <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
  'A container since an individual trade can be referenced by two or more
  different partyTradeIdentifier elements - each allocated by a different party.'

End Choice
  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
  a trade lifecycle. For example, the principal parties obligated to make payments from time
  to time during the term of the trade, but may include other parties involved in, or
  incidental to, the trade, such as parties acting in the role of novation transferor/
  transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places
  within a document.'

</...>

```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="TradeAlreadyTerminated">
  <xsd:complexContent>
    <xsd:extension base=" TradeErrorResponse " />
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **TradeErrorResponse**

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <a href="#">ResponseMessage</a> (by extension) < <b>TradeErrorResponse</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">TradeAlreadyCancelled</a> (by extension)</li><li><a href="#">TradeAlreadyTerminated</a> (by extension)</li></ul>

Name	TradeErrorResponse
Abstract	yes
Documentation	An abstract trade error response message containing a single trade or trade reference.

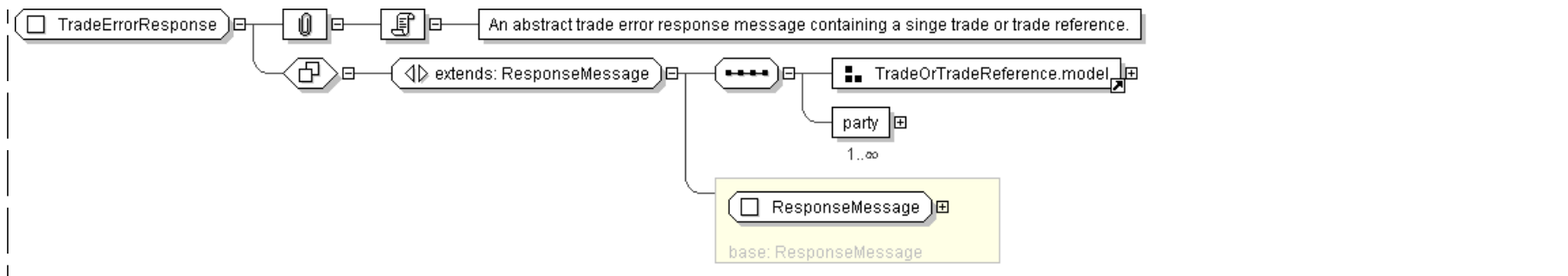
XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  Start Choice [1]
    <trade> Trade </trade> [1]
    'An element that allows the full details of the trade to be used as a mechanism for identifying the trade for which the post-trade event pertains'

    <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
    'A container since an individual trade can be referenced by two or more different partyTradeIdentifier elements - each allocated by a different party.'

  End Choice
  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'
</...>
```

Diagram



### Schema Component Representation

```
<xsd:complexType name="TradeErrorResponse" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage " />
    <xsd:sequence>
      <xsd:group ref=" TradeOrTradeReference.model " />
      <xsd:element name="party" type=" Party " maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

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## Complex Type: TradeNotFound

**Super-types:** [Document](#) < [Message](#) (by extension) < [ResponseMessage](#) (by extension) < **TradeNotFound** (by extension)

**Sub-types:** None

<b>Name</b>	TradeNotFound
<b>Abstract</b>	no
<b>Documentation</b>	A type defining the content model of a response message generated when an operation as requested on a trade unknown to the service.

### XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
```

```

">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
Start Choice [1]
  <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
  'An instance of a unique trade identifier.'

Start Choice [1]
  <trade> Trade </trade> [1]
  'An element that allows the full details of the trade to be used as a mechanism for
  identifying the trade for which the post-trade event pertains'

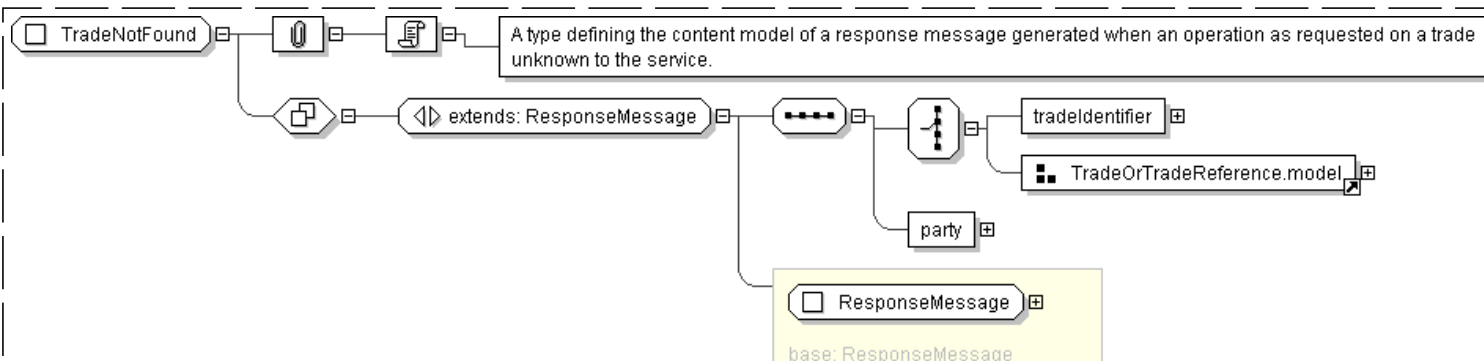
  <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
  'A container since an individual trade can be referenced by two or more
  different partyTradeIdentifier elements - each allocated by a different party.'

End Choice
End Choice
  <party> Party </party> [1]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
  a trade lifecycle. For example, the principal parties obligated to make payments from time
  to time during the term of the trade, but may include other parties involved in, or
  incidental to, the trade, such as parties acting in the role of novation transferor/
  transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places
  within a document.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeNotFound">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:choice>
          <xsd:element name="tradeIdentifier" type=" TradeIdentifier "/>
          <xsd:group ref=" TradeOrTradeReference.model "/>
        </xsd:choice>
        <xsd:element name="party" type=" Party "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **TradeStatus**

Super-types:	<a href="#">Document</a> < <a href="#">Message</a> (by extension) < <a href="#">ResponseMessage</a> (by extension) < <b>TradeStatus</b> (by extension)
Sub-types:	None

Name	TradeStatus
Abstract	no
Documentation	A type defining the content model for a message normally generated in response to a RequestTradeStatus request.

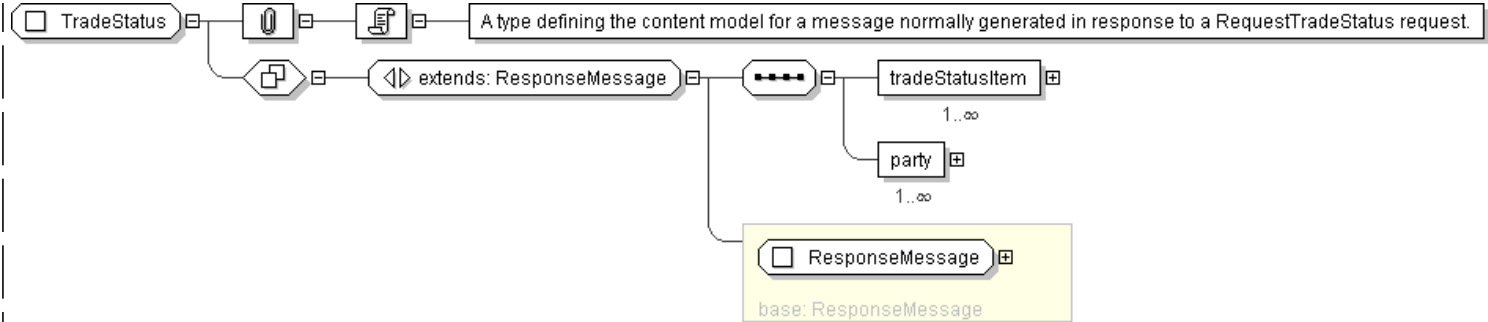
XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <tradeStatusItem> TradeStatusItem </tradeStatusItem> [1..*]
  'A collection of data values describing the state of the given trade.'

  <party> Party </party> [1..*]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
a trade lifecycle. For example, the principal parties obligated to make payments from time
to time during the term of the trade, but may include other parties involved in, or
incidental to, the trade, such as parties acting in the role of novation transferor/
transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places
within a document.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeStatus">
  <xsd:complexContent>
    <xsd:extension base="ResponseMessage">
      <xsd:sequence>
        <xsd:element name="tradeStatusItem" type="TradeStatusItem" maxOccurs="unbounded"/>
        <xsd:element name="party" type="Party" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeStatusItem

Super-types:	None
Sub-types:	None

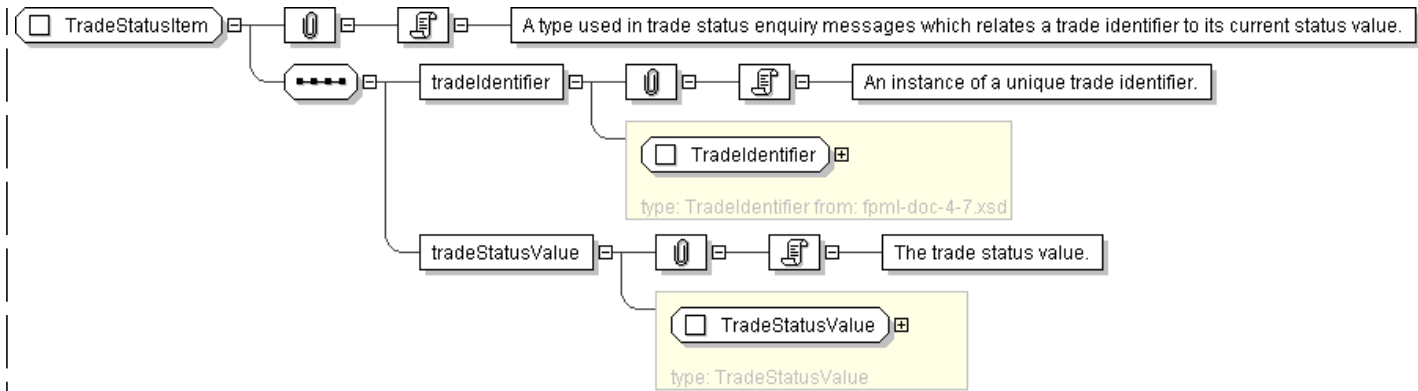
Name	TradeStatusItem
Used by (from the same schema document)	Complex Type <a href="#">TradeStatus</a>
Abstract	no
Documentation	A type used in trade status enquiry messages which relates a trade identifier to its current status value.

XML Instance Representation

```
<...>
  <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
  'An instance of a unique trade identifier.'

  <tradeStatusValue> TradeStatusValue </tradeStatusValue> [1]
  'The trade status value.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeStatusItem">
  <xsd:sequence>
    <xsd:element name="tradeIdentifier" type="TradeIdentifier" />
    <xsd:element name="tradeStatusValue" type="TradeStatusValue" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: TradeStatusValue

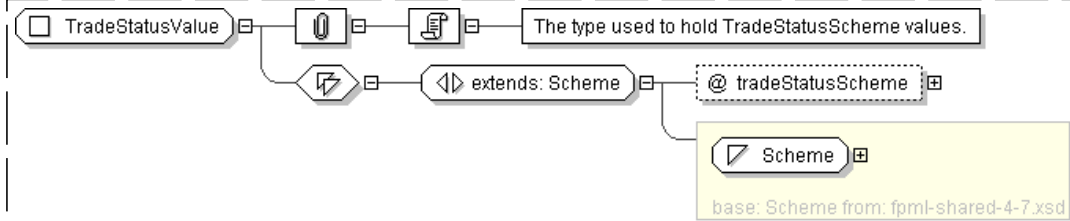
Super-types:	<a href="#">Scheme</a> < <b>TradeStatusValue</b> (by extension)
Sub-types:	None

Name	TradeStatusValue
Used by (from the same schema document)	Complex Type <a href="#">TradeStatusItem</a>
Abstract	no
Documentation	The type used to hold TradeStatusScheme values.

XML Instance Representation

```
<...
tradeStatusScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation



```
<xsd:complexType name="TradeStatusValue">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="tradeStatusScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Model Group: **Exception.model**

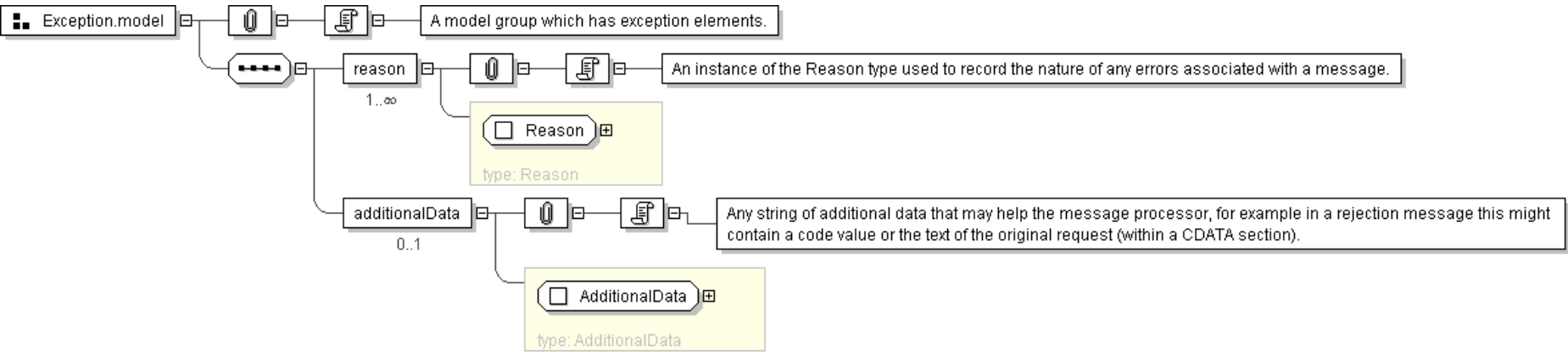
Name	Exception.model
Used by (from the same schema document)	Complex Type <a href="#">MessageRejected</a>
Documentation	A model group which has exception elements.

XML Instance Representation

```
<reason> Reason </reason> [1..*]
'An instance of the Reason type used to record the nature of any errors associated with
a message.'
```

```
<additionalData> AdditionalData </additionalData> [0..1]
'Any string of additional data that may help the message processor, for example in a
rejection message this might contain a code value or the text of the original request (within
a CDATA section).'
```

Diagram



Schema Component Representation

```
<xsd:group name="Exception.model">
  <xsd:sequence>
    <xsd:element name="reason" type=" Reason " maxOccurs="unbounded"/>
    <xsd:element name="additionalData" type=" AdditionalData " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

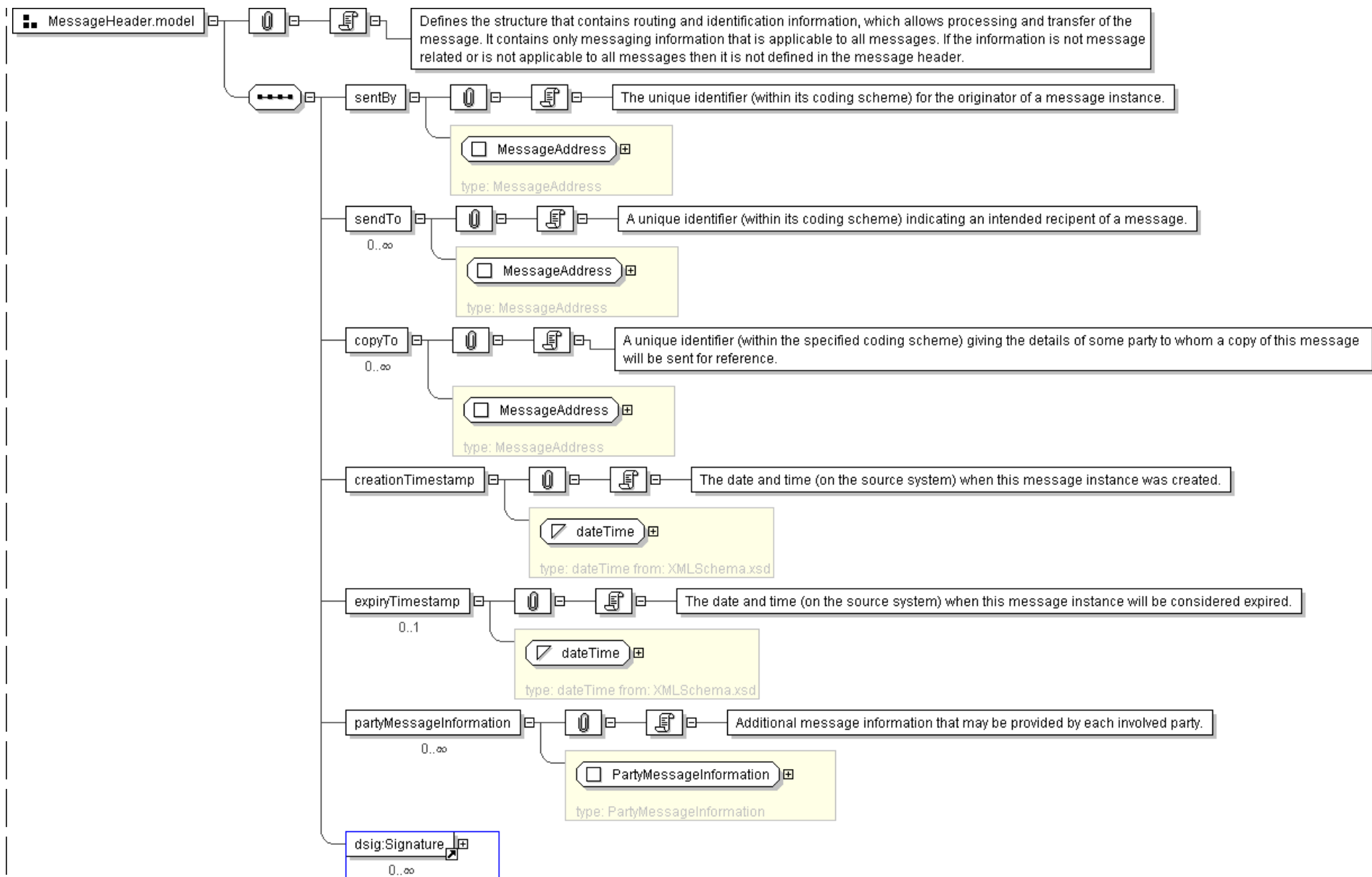
Model Group: **MessageHeader.model**

Name	MessageHeader.model
Used by (from the same schema document)	Complex Type <a href="#">NotificationMessageHeader</a> , Complex Type <a href="#">RequestMessageHeader</a> , Complex Type <a href="#">ResponseMessageHeader</a>
Documentation	Defines the structure that contains routing and identification information, which allows processing and transfer of the message. It contains only messaging information that is applicable to all messages. If the information is not message related or is not applicable to all messages then it is not defined in the message header.

XML Instance Representation

<code>&lt;sentBy&gt; <a href="#">MessageAddress</a> &lt;/sentBy&gt; [1]</code>
<i>'The unique identifier (within its coding scheme) for the originator of a message instance.'</i>
<code>&lt;sendTo&gt; <a href="#">MessageAddress</a> &lt;/sendTo&gt; [0..*]</code>
<i>'A unique identifier (within its coding scheme) indicating an intended recipient of a message.'</i>
<code>&lt;copyTo&gt; <a href="#">MessageAddress</a> &lt;/copyTo&gt; [0..*]</code>
<i>'A unique identifier (within the specified coding scheme) giving the details of some party to whom a copy of this message will be sent for reference.'</i>
<code>&lt;creationTimestamp&gt; <a href="#">xsd:dateTime</a> &lt;/creationTimestamp&gt; [1]</code>
<i>'The date and time (on the source system) when this message instance was created.'</i>
<code>&lt;expiryTimestamp&gt; <a href="#">xsd:dateTime</a> &lt;/expiryTimestamp&gt; [0..1]</code>
<i>'The date and time (on the source system) when this message instance will be considered expired.'</i>
<code>&lt;partyMessageInformation&gt; <a href="#">PartyMessageInformation</a> &lt;/partyMessageInformation&gt; [0..*]</code>
<i>'Additional message information that may be provided by each involved party.'</i>
<code>&lt;<a href="#">dsig:Signature</a>&gt; ... &lt;/<a href="#">dsig:Signature</a>&gt; [0..*]</code>

Diagram



### Schema Component Representation

```
<xsd:group name="MessageHeader.model">
  <xsd:sequence>
    <xsd:element name="sentBy" type="MessageAddress" />
    <xsd:element name="sendTo" type="MessageAddress" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="copyTo" type="MessageAddress" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="creationTimestamp" type="xsd:dateTime" />
    <xsd:element name="expiryTimestamp" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="partyMessageInformation" type="PartyMessageInformation"
      minOccurs="0" maxOccurs="unbounded"/>
  
```

```
<xsd:element ref=" dsig:Signature " minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:group>
```

[top](#)

Legend

**Complex Type:**  
Schema Component Type

**AusAddress**  
Schema Component Name

*Super-types:* [Address](#) < AusAddress (by extension)  
*Sub-types:*

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

<b>Name</b>	AusAddress
<b>Abstract</b>	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9](3)>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates " />
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}" />
```

```
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6579 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-asset-4-7.xsd</a></li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6579 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-asset-4-7.xsd"/>
  ...
</xsd:schema>
```

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Global Definitions

Complex Type: Asian

Super-types:	None
Sub-types:	None
Name	Asian
Used by (from the same schema document)	Model Group <a href="#">OptionFeature.model</a>
Abstract	no
Documentation	As per ISDA 2002 Definitions.

XML Instance Representation

```
<...>
  <averagingInOut> AveragingInOutEnum </averagingInOut> [1]
  <strikeFactor> xsd:decimal </strikeFactor> [0..1]
  'The factor of strike.'

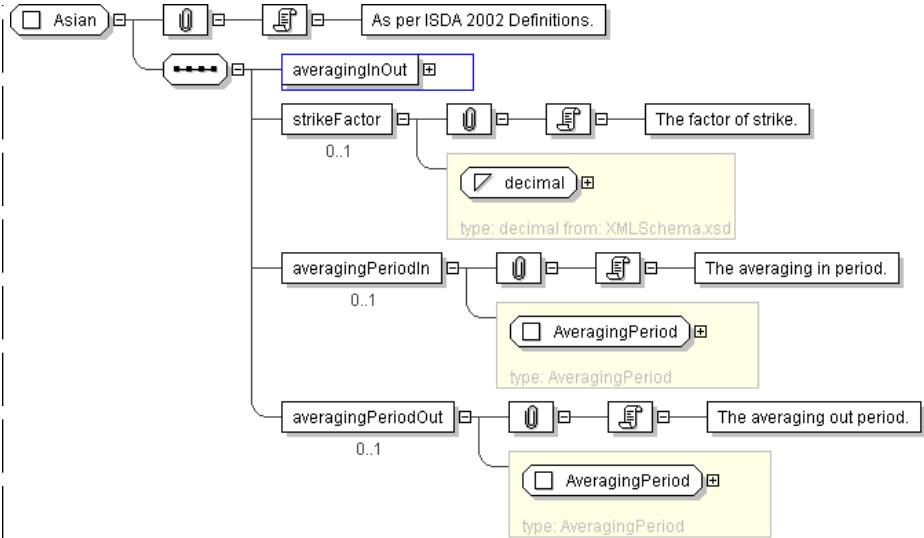
  <averagingPeriodIn> AveragingPeriod </averagingPeriodIn> [0..1]
  'The averaging in period.'

  <averagingPeriodOut> AveragingPeriod </averagingPeriodOut> [0..1]
  'The averaging out period.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Asian">
  <xsd:sequence>
    <xsd:element name="averagingInOut" type="AveragingInOutEnum" />
    <xsd:element name="strikeFactor" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="averagingPeriodIn" type="AveragingPeriod" minOccurs="0"/>
    <xsd:element name="averagingPeriodOut" type="AveragingPeriod" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **AveragingObservationList**

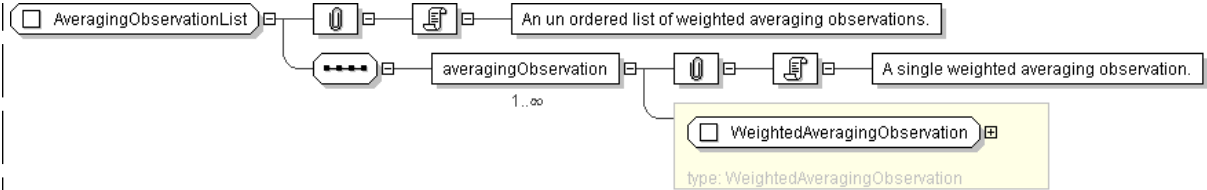
Super-types:	None
Sub-types:	None

Name	AveragingObservationList
Used by (from the same schema document)	Complex Type <a href="#">AveragingPeriod</a>
Abstract	no
Documentation	An un ordered list of weighted averaging observations.

XML Instance Representation

```
<...>
  <averagingObservation> WeightedAveragingObservation </averagingObservation> [1..*]
  'A single weighted averaging observation.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AveragingObservationList">
  <xsd:sequence>
    <xsd:element name="averagingObservation" type=" WeightedAveragingObservation"
      " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **AveragingPeriod**

Super-types:	None
Sub-types:	None
Name	AveragingPeriod
Used by (from the same schema document)	Complex Type <a href="#">Asian</a> , Complex Type <a href="#">Asian</a>
Abstract	no
Documentation	Period over which an average value is taken.

XML Instance Representation

```
<...>
  <schedule> AveragingSchedule </schedule> [0..*]
  'A schedule for generating averaging observation dates.'

  Start Choice [0..1]
  'A choice between unweighted and weighted averaging date and times.'

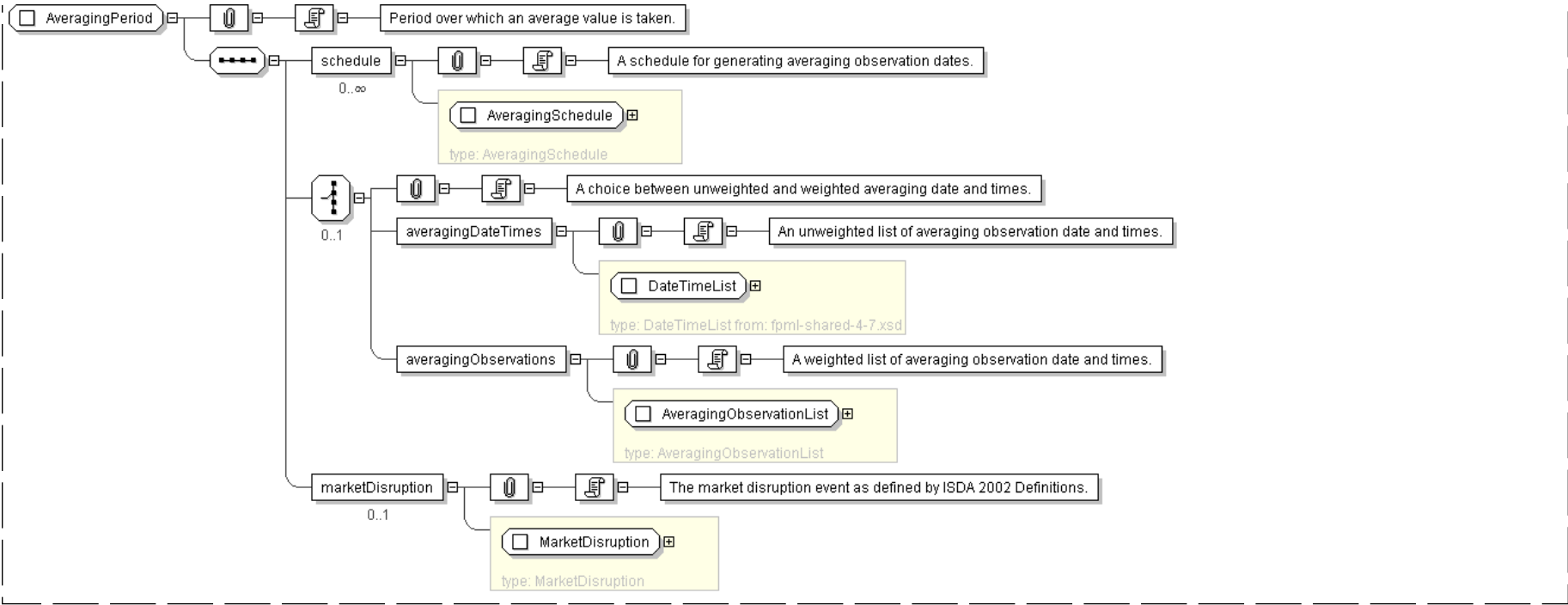
    <averagingDateTimes> DateTimeList </averagingDateTimes> [1]
    'An unweighted list of averaging observation date and times.'

    <averagingObservations> AveragingObservationList </averagingObservations> [1]
    'A weighted list of averaging observation date and times.'

  End Choice
  <marketDisruption> MarketDisruption </marketDisruption> [0..1]
  'The market disruption event as defined by ISDA 2002 Definitions.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AveragingPeriod">
  <xsd:sequence>
    <xsd:element name="schedule" type="AveragingSchedule" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="averagingDateTimes" type="DateTimeList"/>
      <xsd:element name="averagingObservations" type="AveragingObservationList"/>
    </xsd:choice>
    <xsd:element name="marketDisruption" type="MarketDisruption" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **AveragingSchedule**

Super-types:	None
Sub-types:	None
Name	AveragingSchedule
Used by (from the same schema document)	Complex Type <a href="#">AveragingPeriod</a> , Complex Type <a href="#">TriggerEvent</a>
Abstract	no
Documentation	Method of generating a series of dates.

XML Instance Representation

```
<...>
  <startDate> xsd:date </startDate> [1]
  'Date on which this period begins.'
  <endDate> xsd:date </endDate> [1]
  'Date on which this period ends.'
```

```

Start Choice [1]
  <frequency> xsd:positiveInteger </frequency> [1]
  'The schedule frequency.'

  <frequencyType> FrequencyType </frequencyType> [1]
  'The schedule frequency type.'

  <weekNumber> xsd:positiveInteger </weekNumber> [0..1]
  'The schedule week number.'

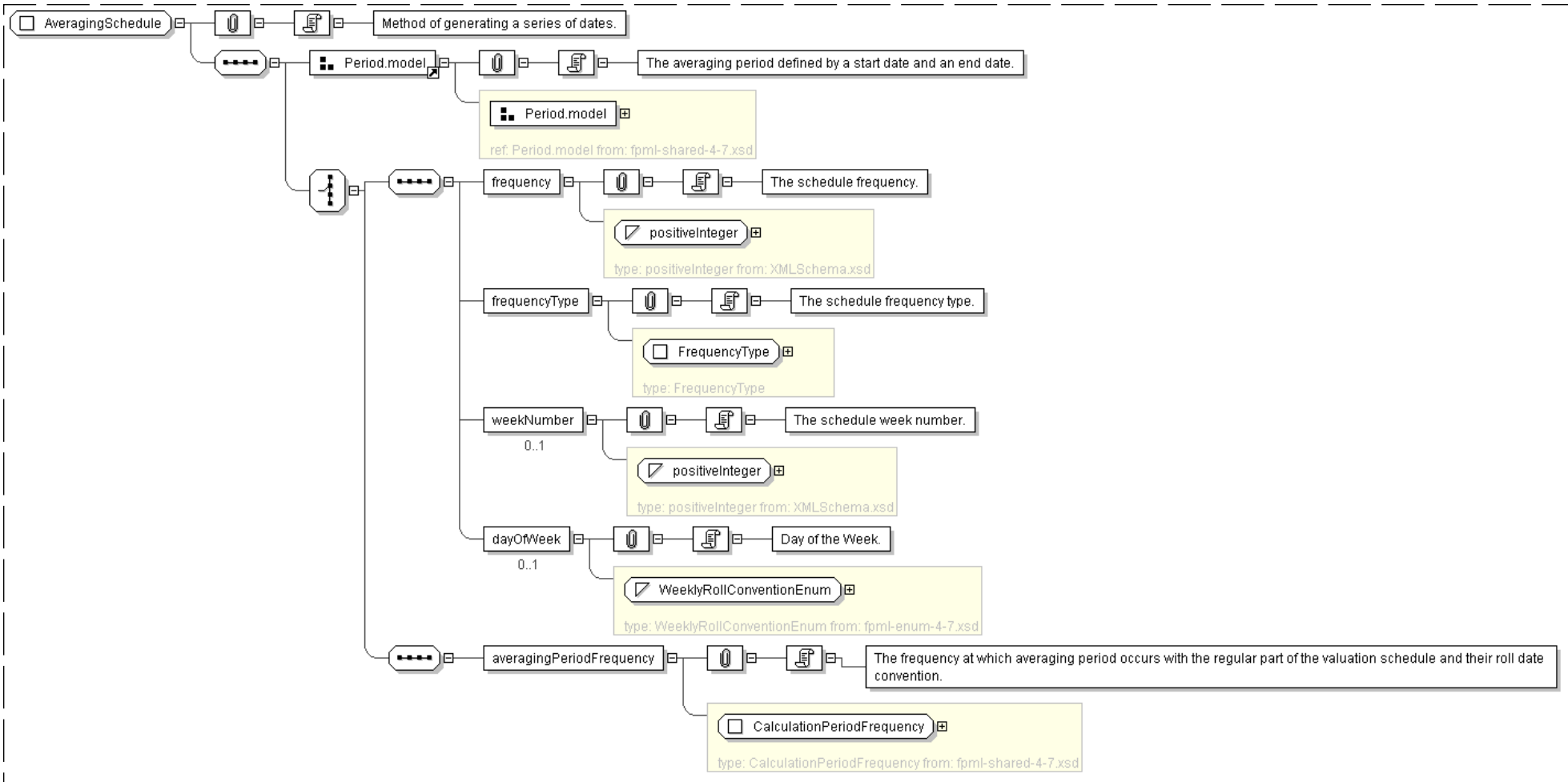
  <dayOfWeek> WeeklyRollConventionEnum </dayOfWeek> [0..1]
  'Day of the Week.'

  <averagingPeriodFrequency> CalculationPeriodFrequency </averagingPeriodFrequency> [1]
  'The frequency at which averaging period occurs with the regular part of the valuation
  schedule and their roll date convention.'

End Choice
</...>

```

## Diagram



Schema Component Representation

```
<xsd:complexType name="AveragingSchedule">
  <xsd:sequence>
    <xsd:group ref=" Period.model " />
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="frequency" type=" xsd:positiveInteger " />
        <xsd:element name="frequencyType" type=" FrequencyType " />
        <xsd:element name="weekNumber" type=" xsd:positiveInteger " minOccurs="0"/>
        <xsd:element name="dayOfWeek" type=" WeeklyRollConventionEnum " minOccurs="0"/>
      </xsd:sequence>
      <xsd:sequence>
        <xsd:element name="averagingPeriodFrequency" type=" CalculationPeriodFrequency " />
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: Barrier

Super-types:	None
Sub-types:	None
Name	Barrier
Used by (from the same schema document)	Model Group <a href="#">OptionFeature.model</a>
Abstract	no
Documentation	As per ISDA 2002 Definitions.

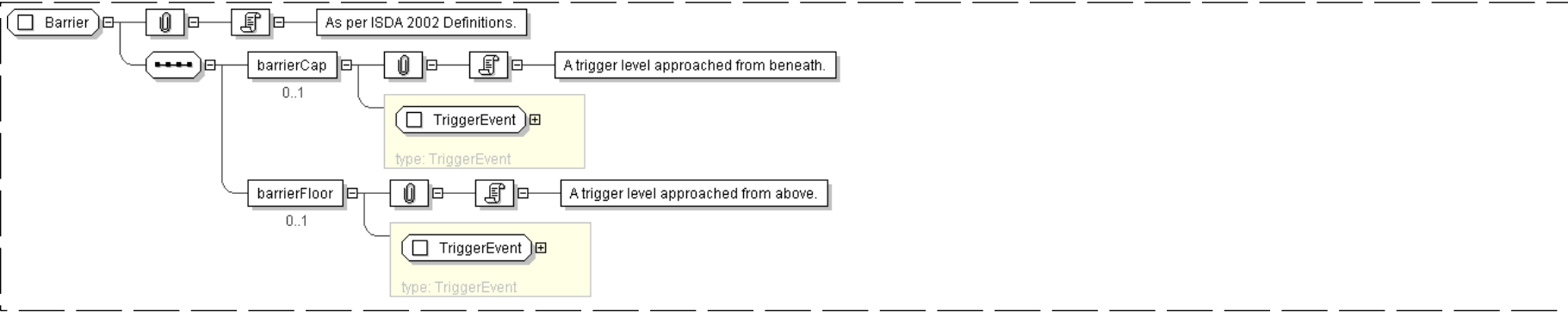
XML Instance Representation

```
<...>
<barrierCap> TriggerEvent </barrierCap> [0..1]
'A trigger level approached from beneath.'

<barrierFloor> TriggerEvent </barrierFloor> [0..1]
'A trigger level approached from above.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Barrier">
  <xsd:sequence>
    <xsd:element name="barrierCap" type=" TriggerEvent " minOccurs="0"/>
    <xsd:element name="barrierFloor" type=" TriggerEvent " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **CalendarSpread**

Super-types:None

Sub-types:None

Name	CalendarSpread
Used by (from the same schema document)	Complex Type <a href="#">StrategyFeature</a>
Abstract	no
Documentation	A type for defining a calendar spread feature.

XML Instance Representation

<...>  
<expirationDateTwo> [AdjustableOrRelativeDate](#) </expirationDateTwo> [1]  
</...>

Diagram

Schema Component Representation

<xsd:complexType name="CalendarSpread">  
  <xsd:sequence>  
    <xsd:element name="expirationDateTwo" type=" [AdjustableOrRelativeDate](#) "/>  
  </xsd:sequence>  
</xsd:complexType>

Complex Type: **ClassifiedPayment**

Super-types:[SimplePayment](#) < **ClassifiedPayment** (by extension)

Sub-types:None

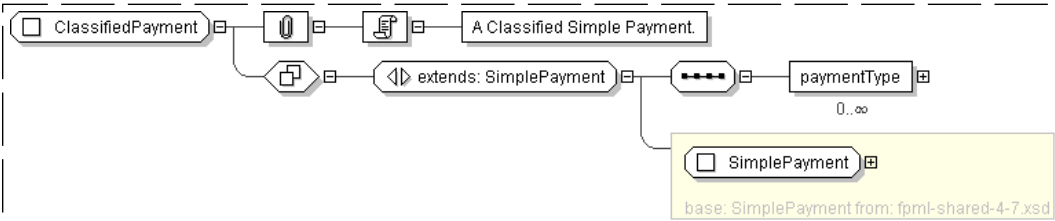
Name	ClassifiedPayment
Abstract	no
Documentation	A Classified Simple Payment.

XML Instance Representation

<...  
  id=" [xsd:ID](#) [0..1]\*">  
    <payerPartyReference> [PartyOrAccountReference](#) </payerPartyReference> [1]  
    'A reference to the party responsible for making the payments defined by this structure.'  
    <receiverPartyReference> [PartyOrAccountReference](#) </receiverPartyReference> [1]  
    'A reference to the party that receives the payments corresponding to this structure.'  
    <paymentAmount> [Money](#) </paymentAmount> [1]  
    <paymentDate> [AdjustableOrRelativeAndAdjustedDate](#) </paymentDate> [1]  
    'The payment date. This date is subject to adjustment in accordance with any applicable business day convention.'

```
<paymentType> PaymentType </paymentType> [0..*]  
  'Payment classification.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ClassifiedPayment">  
  <xsd:complexContent>  
    <xsd:extension base="SimplePayment">  
      <xsd:sequence>  
        <xsd:element name="paymentType" type="PaymentType" minOccurs="0" maxOccurs="unbounded"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

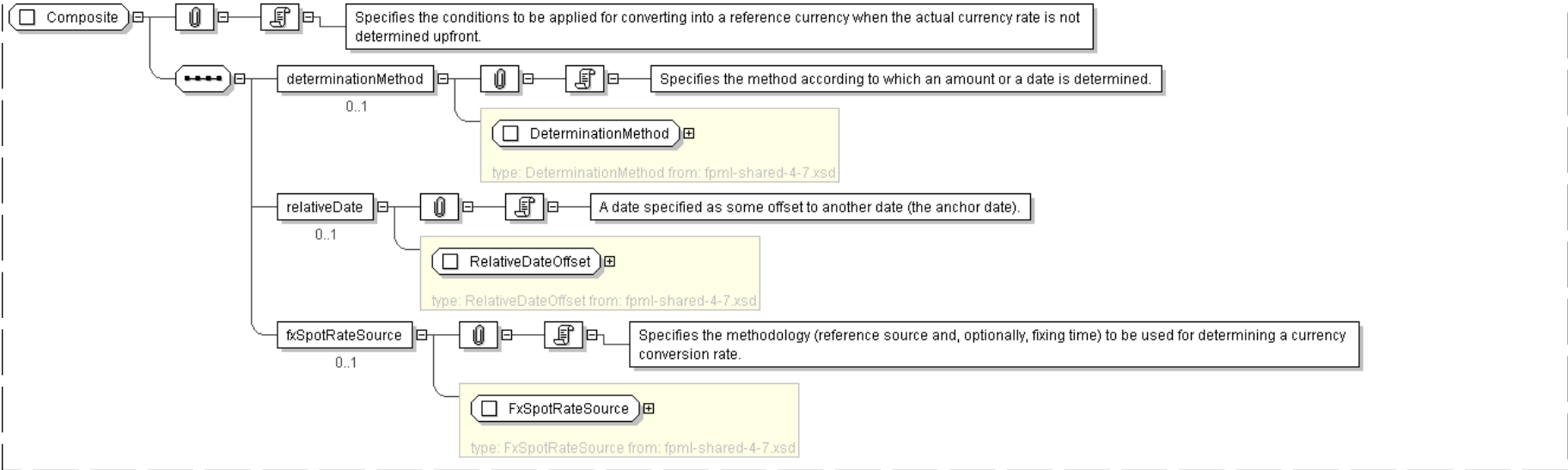
Complex Type: Composite

Super-types:	None
Sub-types:	None
Name	Composite
Used by (from the same schema document)	Complex Type <a href="#">FxFeature</a> , Complex Type <a href="#">FxFeature</a>
Abstract	no
Documentation	Specifies the conditions to be applied for converting into a reference currency when the actual currency rate is not determined upfront.

XML Instance Representation

```
<...>  
  <determinationMethod> DeterminationMethod </determinationMethod> [0..1]  
  'Specifies the method according to which an amount or a date is determined.'  
  
  <relativeDate> RelativeDateOffset </relativeDate> [0..1]  
  'A date specified as some offset to another date (the anchor date).'  
  
  <fxSpotRateSource> FxSpotRateSource </fxSpotRateSource> [0..1]  
  'Specifies the methodology (reference source and, optionally, fixing time) to be used  
  for determining a currency conversion rate.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Composite">
  <xsd:sequence>
    <xsd:element name="determinationMethod" type=" DeterminationMethod " minOccurs="0"/>
    <xsd:element name="relativeDate" type=" RelativeDateOffset " minOccurs="0"/>
    <xsd:element name="fxSpotRateSource" type=" FxSpotRateSource " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CreditEventNotice**

Super-types:	None
Sub-types:	None

Name	CreditEventNotice
Used by (from the same schema document)	Complex Type <a href="#">CreditEvents</a>
Abstract	no

XML Instance Representation

```
<...>
<notifyingParty> NotifyingParty </notifyingParty> [1]
'Pointer style references to a party identifier defined elsewhere in the document.
The notifying party is the party that notifies the other party when a credit event has
occurred by means of a credit event notice. If more than one party is referenced as being
the notifying party then either party may notify the other of a credit event occurring.
ISDA 2003 Term: Notifying Party.'
```

```
<businessCenter> BusinessCenter </businessCenter> [0..1]
'Inclusion of this business center element implies that Greenwich Mean Time in Section 3.3
of the 2003 ISDA Credit Derivatives Definitions is replaced by the local time of the
city indicated by the businessCenter element value.'
```

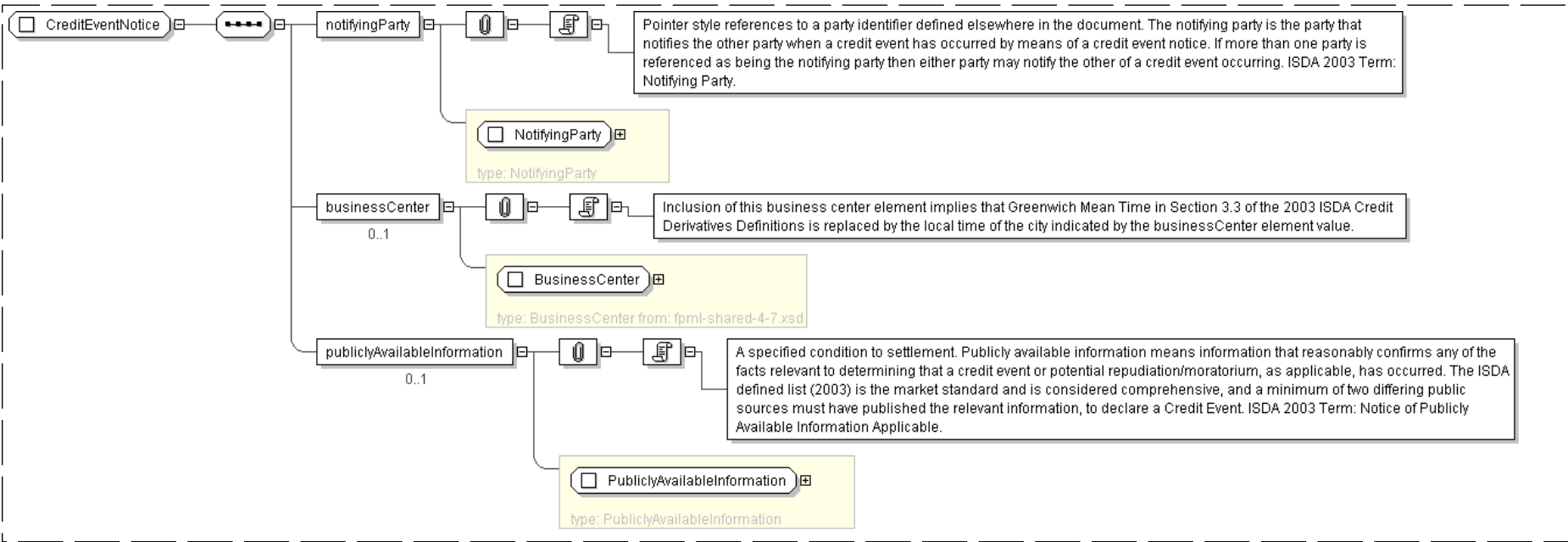
```
<publiclyAvailableInformation> PubliclyAvailableInformation </
publiclyAvailableInformation> [0..1]
'A specified condition to settlement. Publicly available information means information
that reasonably confirms any of the facts relevant to determining that a credit event
or potential repudiation/moratorium, as applicable, has occurred. The ISDA defined list
```



(2003) is the market standard and is considered comprehensive, and a minimum of two differing public sources must have published the relevant information, to declare a Credit Event. ISDA 2003 Term: Notice of Publicly Available Information Applicable.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditEventNotice">
  <xsd:sequence>
    <xsd:element name="notifyingParty" type="NotifyingParty" />
    <xsd:element name="businessCenter" type="BusinessCenter" minOccurs="0"/>
    <xsd:element name="publiclyAvailableInformation" type="PubliclyAvailableInformation" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CreditEvents**

Super-types:	None
Sub-types:	None

Name	CreditEvents
Used by (from the same schema document)	Complex Type <a href="#">Trigger</a>
Abstract	no

XML Instance Representation

```
<...
id="xsd:ID [0..1]*)>
  <bankruptcy> Empty </bankruptcy> [0..1]
  'A credit event. The reference entity has been dissolved or has become insolvent. It
  also covers events that may be a precursor to insolvency such as instigation of bankruptcy
  or insolvency proceedings. Sovereign trades are not subject to Bankruptcy as \"technically\"'
```

a Sovereign cannot become bankrupt. ISDA 2003 Term: Bankruptcy.'

<failureToPay> FailureToPay </failureToPay> [0..1]

'A credit event. This credit event triggers, after the expiration of any applicable grace period, if the reference entity fails to make due payments in an aggregate amount of not less than the payment requirement on one or more obligations (e.g. a missed coupon payment). ISDA 2003 Term: Failure to Pay.'

<failureToPayPrincipal> Empty </failureToPayPrincipal> [0..1]

'A credit event. Corresponds to the failure by the Reference Entity to pay an expected principal amount or the payment of an actual principal amount that is less than the expected principal amount. ISDA 2003 Term: Failure to Pay Principal.'

<failureToPayInterest> Empty </failureToPayInterest> [0..1]

'A credit event. Corresponds to the failure by the Reference Entity to pay an expected interest amount or the payment of an actual interest amount that is less than the expected interest amount. ISDA 2003 Term: Failure to Pay Interest.'

<obligationDefault> Empty </obligationDefault> [0..1]

'A credit event. One or more of the obligations have become capable of being declared due and payable before they would otherwise have been due and payable as a result of, or on the basis of, the occurrence of a default, event of default or other similar condition or event other than failure to pay. ISDA 2003 Term: Obligation Default.'

<obligationAcceleration> Empty </obligationAcceleration> [0..1]

'A credit event. One or more of the obligations have been declared due and payable before they would otherwise have been due and payable as a result of, or on the basis of, the occurrence of a default, event of default or other similar condition or event other than failure to pay (preferred by the market over Obligation Default, because more definitive and encompasses the definition of Obligation Default - this is more favorable to the Seller). Subject to the default requirement amount. ISDA 2003 Term: Obligation Acceleration.'

<repudiationMoratorium> Empty </repudiationMoratorium> [0..1]

'A credit event. The reference entity, or a governmental authority, either refuses to recognise or challenges the validity of one or more obligations of the reference entity, or imposes a moratorium thereby postponing payments on one or more of the obligations of the reference entity. Subject to the default requirement amount. ISDA 2003 Term: Repudiation/Moratorium.'

<restructuring> Restructuring </restructuring> [0..1]

'A credit event. A restructuring is an event that materially impacts the reference entity's obligations, such as an interest rate reduction, principal reduction, deferral of interest or principal, change in priority ranking, or change in currency or composition of payment. ISDA 2003 Term: Restructuring.'

<distressedRatingsDowngrade> Empty </distressedRatingsDowngrade> [0..1]

'A credit event. Results from the fact that the rating of the reference obligation is downgraded to a distressed rating level. From a usage standpoint, this credit event is typically not applicable in case of RMBS trades.'

<maturityExtension> Empty </maturityExtension> [0..1]

'A credit event. Results from the fact that the underlier fails to make principal payments as expected.'

<writedown> Empty </writedown> [0..1]

'A credit event. Results from the fact that the underlier writes down its outstanding principal amount.'

<impliedWritedown> Empty </impliedWritedown> [0..1]

'A credit event. Results from the fact that losses occur to the underlying instruments that do not result in reductions of the outstanding principal of the reference obligation.'

<defaultRequirement> Money </defaultRequirement> [0..1]

'In relation to certain credit events, serves as a threshold for Obligation Acceleration, Obligation Default, Repudiation/Moratorium and Restructuring. Market standard

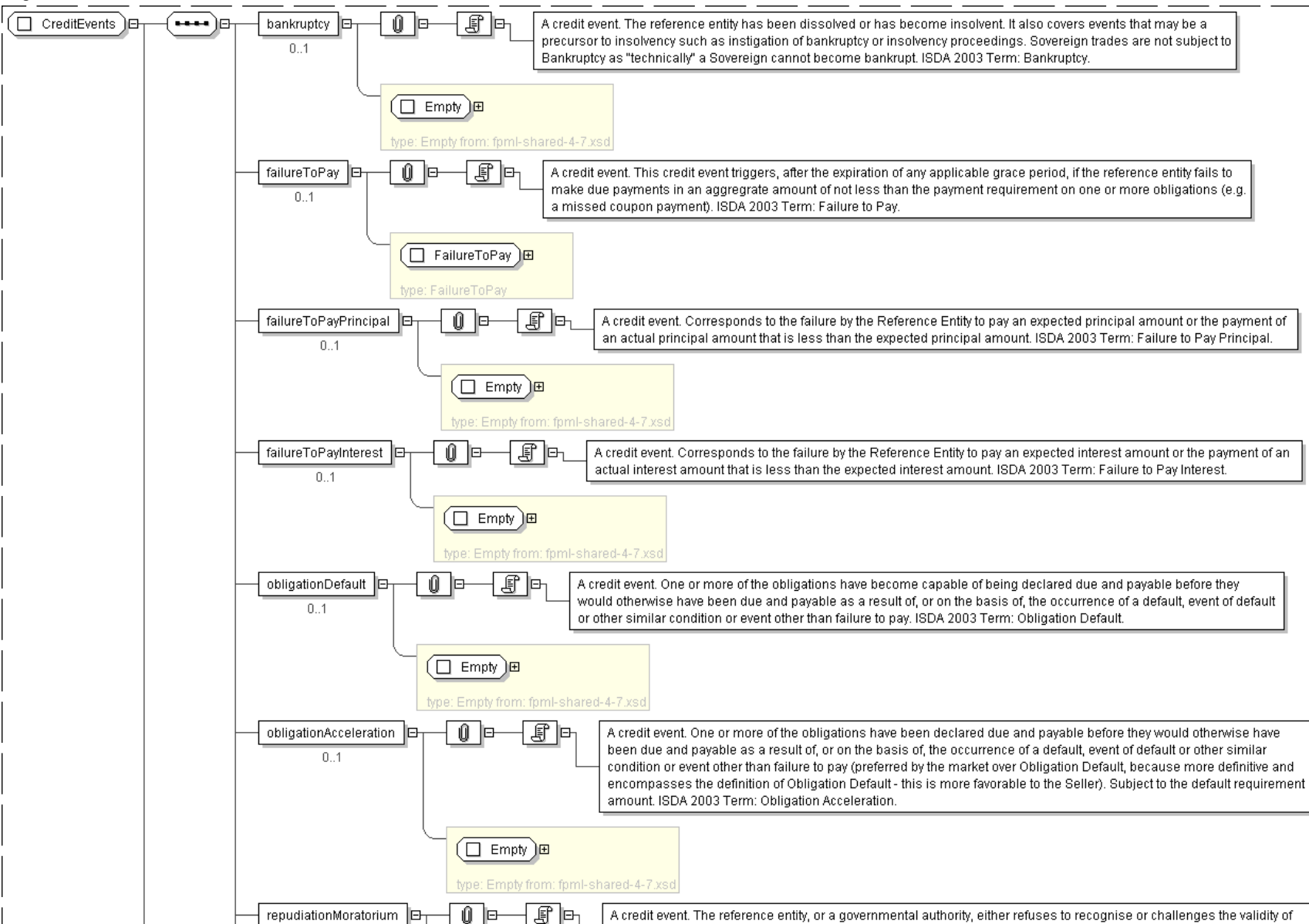
is USD 10,000,000 (JPY 1,000,000,000 for all Japanese Yen trades). This is applied on an aggregate or total basis across all Obligations of the Reference Entity. Used to prevent technical/operational errors from triggering credit events. ISDA 2003 Term: Default Requirement.'

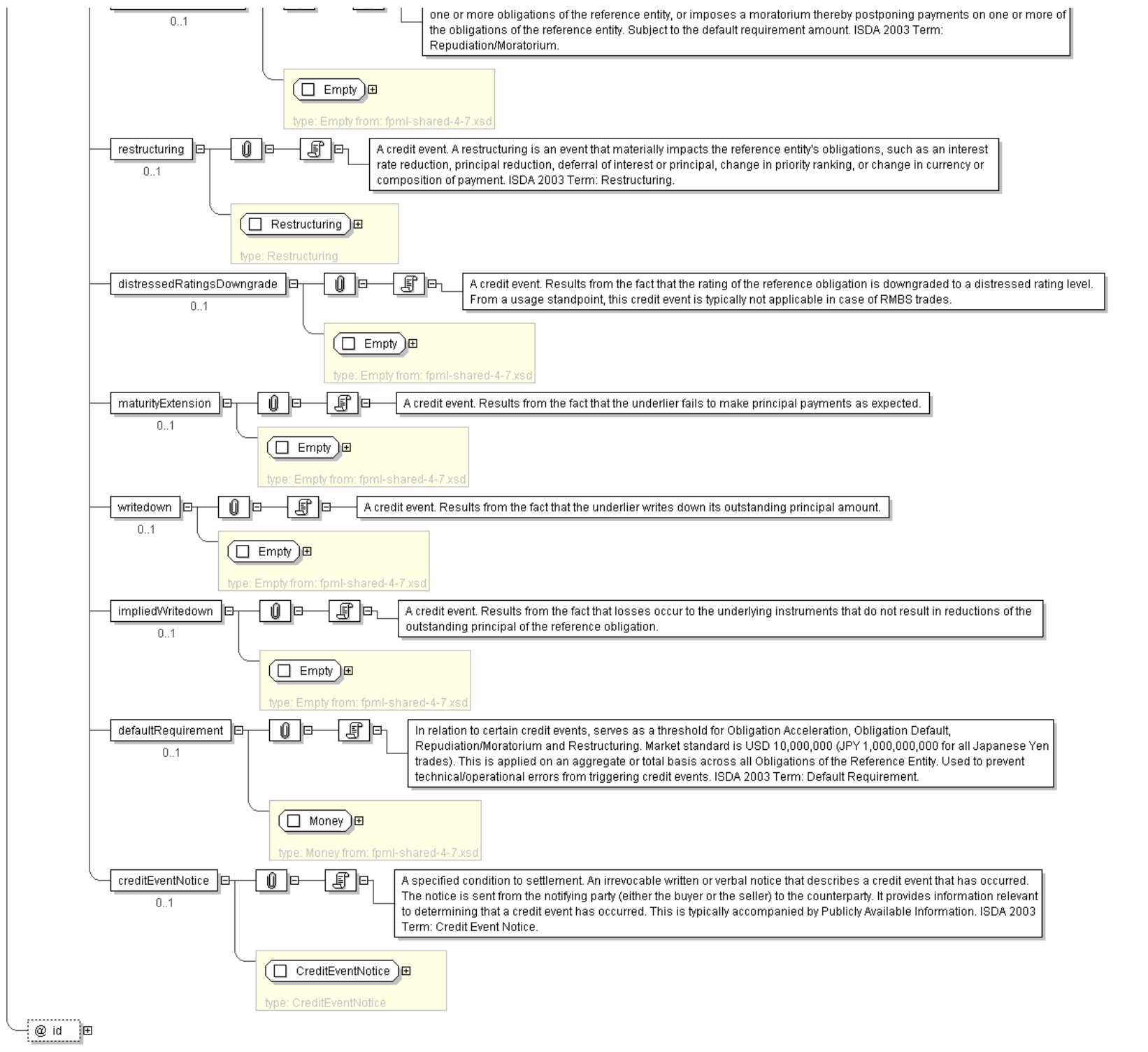
```
<creditEventNotice> CreditEventNotice </creditEventNotice> [0..1]
```

'A specified condition to settlement. An irrevocable written or verbal notice that describes a credit event that has occurred. The notice is sent from the notifying party (either the buyer or the seller) to the counterparty. It provides information relevant to determining that a credit event has occurred. This is typically accompanied by Publicly Available Information. ISDA 2003 Term: Credit Event Notice.'

```
</...>
```

## Diagram





Schema Component Representation

```
<xsd:complexType name="CreditEvents">
  <xsd:sequence>
    <xsd:element name="bankruptcy" type=" Empty " minOccurs="0"/>
    <xsd:element name="failureToPay" type=" FailureToPay " minOccurs="0"/>
    <xsd:element name="failureToPayPrincipal" type=" Empty " minOccurs="0"/>
    <xsd:element name="failureToPayInterest" type=" Empty " minOccurs="0"/>
    <xsd:element name="obligationDefault" type=" Empty " minOccurs="0"/>
    <xsd:element name="obligationAcceleration" type=" Empty " minOccurs="0"/>
    <xsd:element name="repudiationMoratorium" type=" Empty " minOccurs="0"/>
    <xsd:element name="restructuring" type=" Restructuring " minOccurs="0"/>
    <xsd:element name="distressedRatingsDowngrade" type=" Empty " minOccurs="0"/>
    <xsd:element name="maturityExtension" type=" Empty " minOccurs="0"/>
    <xsd:element name="writedown" type=" Empty " minOccurs="0"/>
    <xsd:element name="impliedWritedown" type=" Empty " minOccurs="0"/>
    <xsd:element name="defaultRequirement" type=" Money " minOccurs="0"/>
    <xsd:element name="creditEventNotice" type=" CreditEventNotice " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " use="optional"/>
</xsd:complexType>
```

[top](#)

Complex Type: CreditEventsReference

Super-types:	<a href="#">Reference</a> < <a href="#">CreditEventsReference</a> (by extension)
Sub-types:	None

Name	CreditEventsReference
Used by (from the same schema document)	Complex Type <a href="#">Trigger</a>
Abstract	no
Documentation	Reference to credit events.

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditEventsReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference ">
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="CreditEvents"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: FailureToPay

Super-types:	None
Sub-types:	None
Name	FailureToPay
Used by (from the same schema document)	Complex Type <a href="#">CreditEvents</a>
Abstract	no

XML Instance Representation

<...>

<gracePeriodExtension> [GracePeriodExtension](#) </gracePeriodExtension> [0..1]

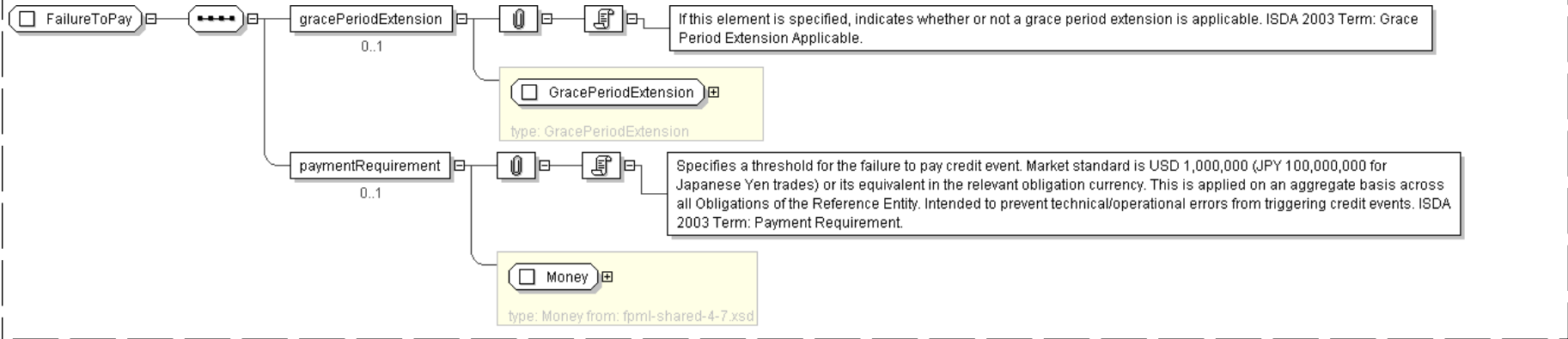
'If this element is specified, indicates whether or not a grace period extension is applicable. ISDA 2003 Term: Grace Period Extension Applicable.'

<paymentRequirement> [Money](#) </paymentRequirement> [0..1]

'Specifies a threshold for the failure to pay credit event. Market standard is USD 1,000,000 (JPY 100,000,000 for Japanese Yen trades) or its equivalent in the relevant obligation currency. This is applied on an aggregate basis across all Obligations of the Reference Entity. Intended to prevent technical/operational errors from triggering credit events. ISDA 2003 Term: Payment Requirement.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FailureToPay">
  <xsd:sequence>
    <xsd:element name="gracePeriodExtension" type=" GracePeriodExtension " minOccurs="0"/>
    <xsd:element name="paymentRequirement" type=" Money " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FeaturePayment**

Super-types:	<a href="#">PaymentBase</a> < <b>FeaturePayment</b> (by extension)
Sub-types:	None
Name	FeaturePayment
Used by (from the same schema document)	Complex Type <a href="#">TriggerEvent</a>
Abstract	no
Documentation	Payment made following trigger occurrence.

## XML Instance Representation

```

<...
id=" xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  Start Choice [1]
    <levelPercentage> xsd:decimal </levelPercentage> [1]
    'The trigger level percentage.'

    <amount> NonNegativeDecimal </amount> [1]
    'The monetary quantity in currency units.'

  End Choice
  <time> TimeTypeEnum </time> [0..1]
  'The feature payment time.'

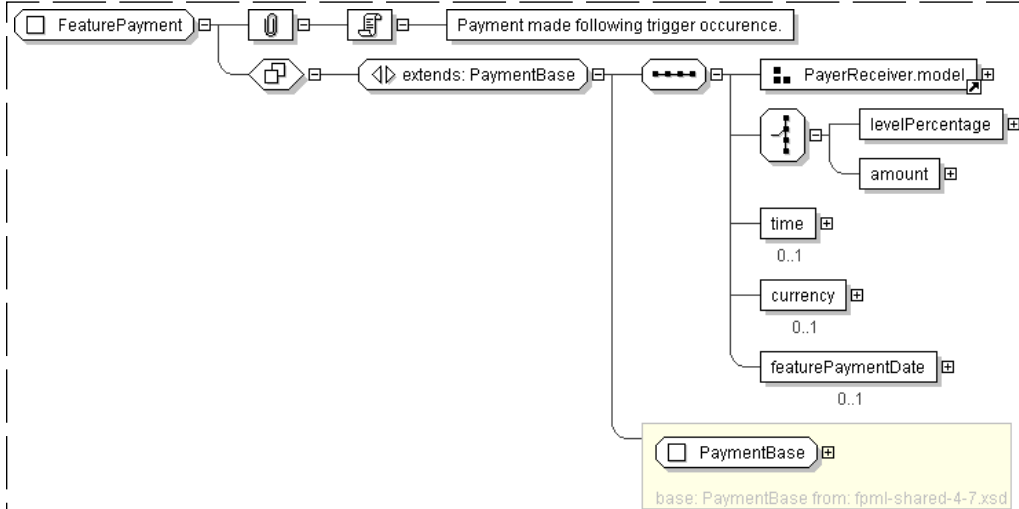
  <currency> Currency </currency> [0..1]
  'The currency in which an amount is denominated.'

  <featurePaymentDate> AdjustableOrRelativeDate </featurePaymentDate> [0..1]
  'The feature payment date.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="FeaturePayment">
  <xsd:complexContent>
    <xsd:extension base=" PaymentBase ">
      <xsd:sequence>
        <xsd:group ref=" PayerReceiver.model "/>
        <xsd:choice>
          <xsd:element name="levelPercentage" type=" xsd:decimal "/>
          <xsd:element name="amount" type=" NonNegativeDecimal "/>
        </xsd:choice>
        <xsd:element name="time" type=" TimeTypeEnum " minOccurs="0"/>

```

```
<xsd:element name="currency" type=" Currency " minOccurs="0"/>
<xsd:element name="featurePaymentDate" type=" AdjustableOrRelativeDate " minOccurs="0"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FrequencyType**

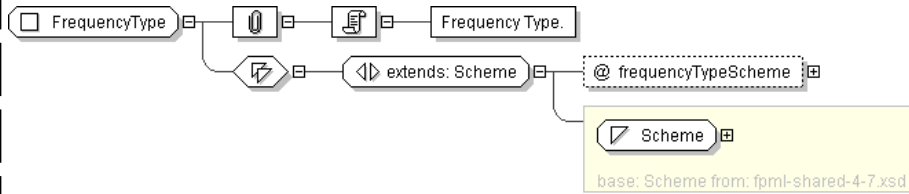
Super-types:	<a href="#">Scheme</a> < <b>FrequencyType</b> (by extension)
Sub-types:	None

Name	FrequencyType
Used by (from the same schema document)	Complex Type <a href="#">AveragingSchedule</a>
Abstract	no
Documentation	Frequency Type.

XML Instance Representation

```
<...
frequencyTypeScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FrequencyType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="frequencyTypeScheme" type=" xsd:anyURI "/">
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxFeature**

Super-types:	None
Sub-types:	None

Name	FxFeature
Used by (from the same schema document)	Model Group <a href="#">OptionBaseFeature.model</a>
Abstract	no
Documentation	A type for defining Fx Features.

XML Instance Representation

```
<...>
<referenceCurrency> IdentifiedCurrency </referenceCurrency> [1]
</...>
```



'Specifies the reference currency of the trade.'

Start Choice [1]

<composite> Composite </composite> [1]

'If "Composite" is specified as the Settlement Type in the relevant Transaction Supplement, an amount in the Settlement Currency, determined by the Calculation Agent as being equal to the number of Options exercised or deemed exercised, multiplied by: (Settlement Price - Strike Price) / (Strike Price - Settlement Price) x Multiplier provided that if the above is equal to a negative amount the Option Cash Settlement Amount shall be deemed to be zero.'

<quanto> Quanto </quanto> [1]

'If "Quanto" is specified as the Settlement Type in the relevant Transaction Supplement, an amount, as determined by the Calculation Agent in accordance with the Section 8.2 of the Equity Definitions.'

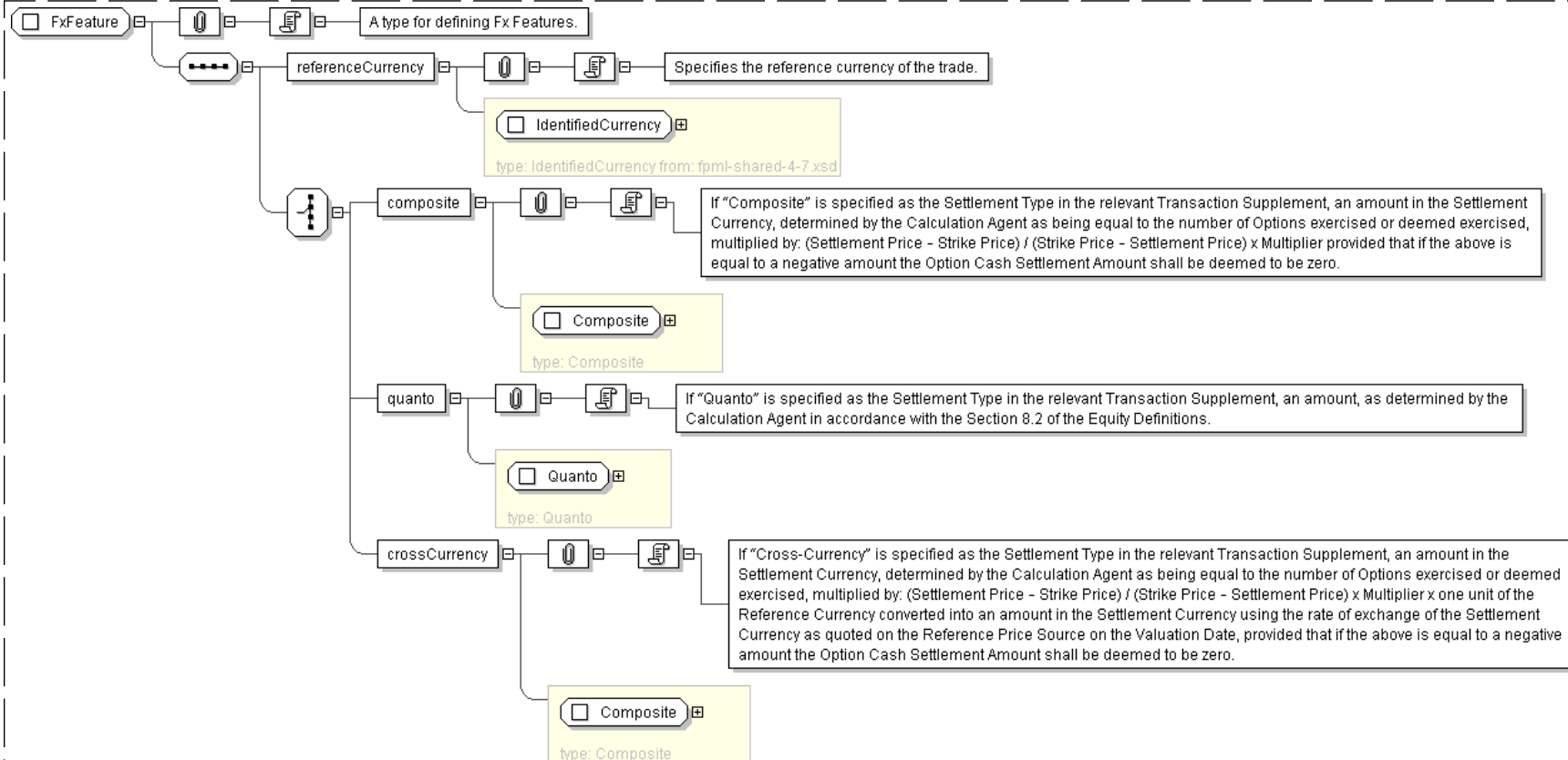
<crossCurrency> Composite </crossCurrency> [1]

'If "Cross-Currency" is specified as the Settlement Type in the relevant Transaction Supplement, an amount in the Settlement Currency, determined by the Calculation Agent as being equal to the number of Options exercised or deemed exercised, multiplied by: (Settlement Price - Strike Price) / (Strike Price - Settlement Price) x Multiplier x one unit of the Reference Currency converted into an amount in the Settlement Currency using the rate of exchange of the Settlement Currency as quoted on the Reference Price Source on the Valuation Date, provided that if the above is equal to a negative amount the Option Cash Settlement Amount shall be deemed to be zero.'

End Choice

</...>

#### Diagram



Schema Component Representation

```
<xsd:complexType name="FxFeature">
  <xsd:sequence>
    <xsd:element name="referenceCurrency" type=" IdentifiedCurrency " />
    <xsd:choice>
      <xsd:element name="composite" type=" Composite " />
      <xsd:element name="quanto" type=" Quanto " />
      <xsd:element name="crossCurrency" type=" Composite " />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **GracePeriodExtension**

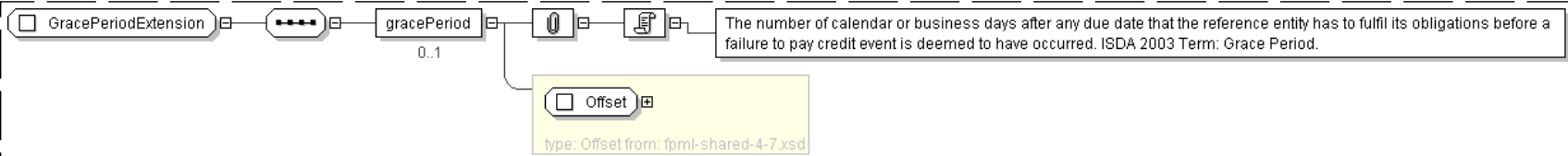
Super-types:	None
Sub-types:	None

Name	GracePeriodExtension
Used by (from the same schema document)	Complex Type <a href="#">FailureToPay</a>
Abstract	no

XML Instance Representation

```
<...>
  <gracePeriod> Offset </gracePeriod> [0..1]
  'The number of calendar or business days after any due date that the reference entity has
  to fulfil its obligations before a failure to pay credit event is deemed to have occurred.
  ISDA 2003 Term: Grace Period.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GracePeriodExtension">
  <xsd:sequence>
    <xsd:element name="gracePeriod" type=" Offset " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Knock**

Super-types:	None
Sub-types:	None

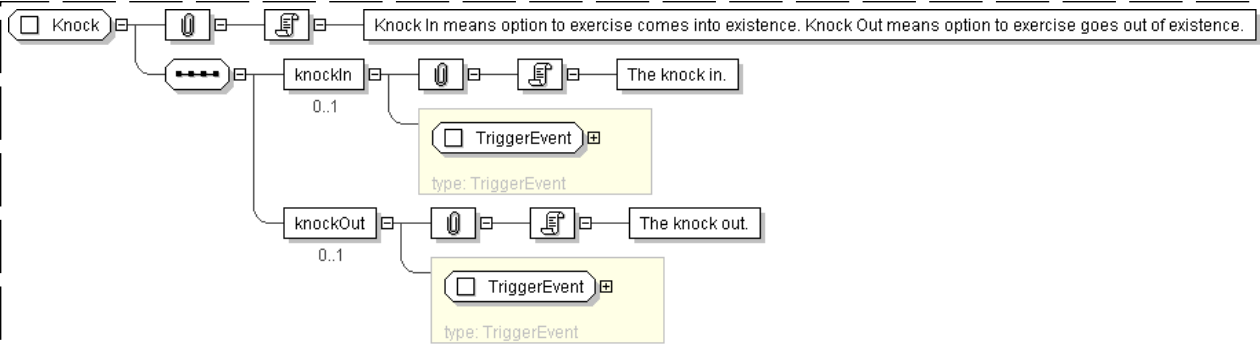
Name	Knock
Used by (from the same schema document)	Model Group <a href="#">OptionFeature.model</a>
Abstract	no
Documentation	Knock In means option to exercise comes into existence. Knock Out means option to exercise goes out of existence.

XML Instance Representation

```
<...>
  <knockIn> TriggerEvent </knockIn> [0..1]
  'The knock in.'

  <knockOut> TriggerEvent </knockOut> [0..1]
  'The knock out.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Knock">
  <xsd:sequence>
    <xsd:element name="knockIn" type="TriggerEvent" minOccurs="0"/>
    <xsd:element name="knockOut" type="TriggerEvent" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **MarketDisruption**

Super-types:	<a href="#">Scheme</a> < <b>MarketDisruption</b> (by extension)
Sub-types:	None
Name	MarketDisruption
Used by (from the same schema document)	Complex Type <a href="#">AveragingPeriod</a>
Abstract	no
Documentation	Defines the handling of an averaging date market disruption for an equity derivative transaction.

XML Instance Representation

```
<...
marketDisruptionScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MarketDisruption">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="marketDisruptionScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/market-disruption"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NotifyingParty**

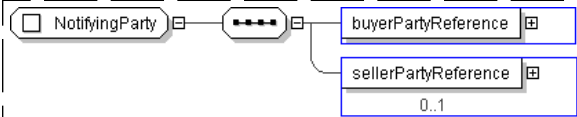
Super-types:	None
Sub-types:	None

Name	NotifyingParty
Used by (from the same schema document)	Complex Type <a href="#">CreditEventNotice</a>
Abstract	no

XML Instance Representation

```
<...>
  <buyerPartyReference> PartyReference </buyerPartyReference> [1]
  <sellerPartyReference> PartyReference </sellerPartyReference> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotifyingParty">
  <xsd:sequence>
    <xsd:element name="buyerPartyReference" type=" PartyReference " />
    <xsd:element name="sellerPartyReference" type=" PartyReference " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **OptionBase**

Super-types:	<a href="#">Product</a> < <b>OptionBase</b> (by extension)
Sub-types:	• <a href="#">OptionBaseExtended</a> (by extension)

Name	OptionBase
------	------------

Abstract	yes
Documentation	A type for defining the common features of options.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]

  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]

  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]

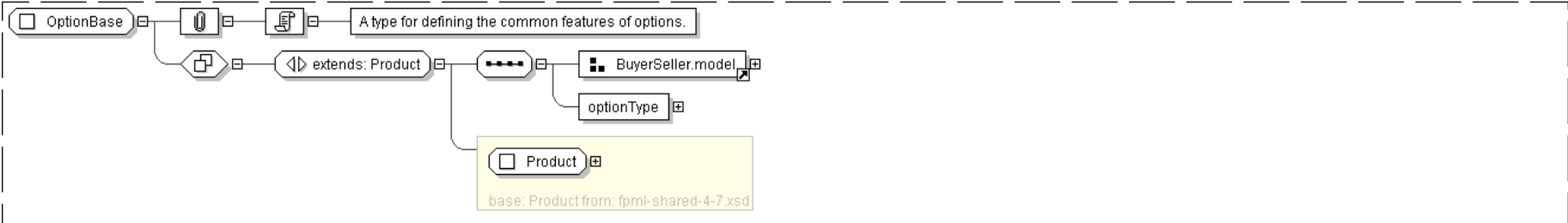
  'A reference to the party that sells (\\"writes\\") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]

  'The type of option transaction. From a usage standpoint, put/call is the default option
  type, while payer/receiver indicator is used for options index credit default
  swaps, consistently with the industry practice. Straddle is used for the case of
  straddle strategy, that combine a call and a put with the same strike.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OptionBase" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" Product " >
      <xsd:sequence>
        <xsd:group ref=" BuyerSeller.model " />
        <xsd:element name="optionType" type=" OptionTypeEnum " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: OptionBaseExtended

Super-types:	<a href="#">Product</a> < <a href="#">OptionBase</a> (by extension) < <a href="#">OptionBaseExtended</a> (by extension)
--------------	---

Sub-types:	None
Name	OptionBaseExtended
Abstract	yes
Documentation	Base type for options starting with the 4-3 release, until we refactor the schema as part of the 5-0 release series.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction. From a usage standpoint, put/call is the default option
  type, while payer/receiver indicator is used for options index credit default
  swaps, consistently with the industry practice. Straddle is used for the case of
  straddle strategy, that combine a call and a put with the same strike.'

  <premium> Premium </premium> [0..1]
  'The option premium payable by the buyer to the seller.'

  <exercise> ... </exercise> [1]
  <exerciseProcedure> ExerciseProcedure </exerciseProcedure> [1]
  'A set of parameters defining procedures associated with the exercise.'

  <feature> OptionFeature </feature> [0..1]
  'An Option feature such as quanto, asian, barrier, knock.'

Start Choice [0..1]
'A choice between an explicit representation of the notional amount, or a reference to
a notional amount defined elsewhere in this document.'

  <notionalReference> NotionalAmountReference </notionalReference> [1]
  <notionalAmount> Money </notionalAmount> [1]
End Choice
Start Group: OptionDenomination.model [0..1]
  <optionEntitlement> PositiveDecimal </optionEntitlement> [1]
  'The number of units of underlying per option comprised in the option transaction.'

  <entitlementCurrency> Currency </entitlementCurrency> [0..1]
  'TODO'

  <numberOfOptions> PositiveDecimal </numberOfOptions> [0..1]
  'The number of options comprised in the option transaction.'

End Group: OptionDenomination.model
```

```

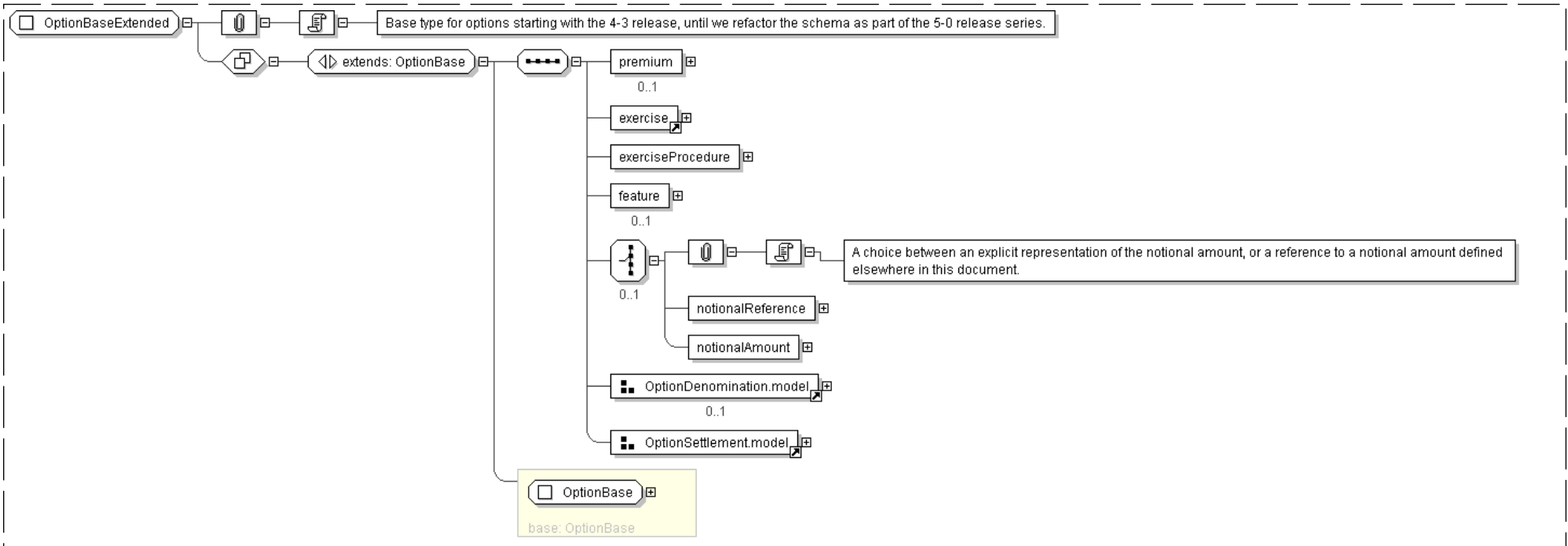
<settlementType> SettlementTypeEnum </settlementType> [0..1]
<settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
Start Group: SettlementAmountOrCurrency.model [0..1]
Start Choice [1]
  <settlementAmount> Money </settlementAmount> [1]
  'Settlement Amount'

  <settlementCurrency> Currency </settlementCurrency> [1]
  'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice
End Group: SettlementAmountOrCurrency.model
</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="OptionBaseExtended" abstract="true">
  <xsd:complexContent>
    <xsd:extension base="OptionBase">
      <xsd:sequence>
        <xsd:element name="premium" type="Premium" minOccurs="0"/>
        <xsd:element ref="exercise"/>
        <xsd:element name="exerciseProcedure" type="ExerciseProcedure"/>
        <xsd:element name="feature" type="OptionFeature" minOccurs="0"/>
        <xsd:choice minOccurs="0">
          <xsd:element name="notionalReference" type="NotionalAmountReference"/>
          <xsd:element name="notionalAmount" type="Money"/>
        </xsd:choice>
        <xsd:group ref="OptionDenomination.model" minOccurs="0"/>
        <xsd:group ref="OptionSettlement.model"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

Complex Type: **OptionFeature**

Super-types:	None
Sub-types:	None
Name	OptionFeature
Used by (from the same schema document)	Complex Type <a href="#">OptionBaseExtended</a>
Abstract	no
Documentation	A type for defining option features.

XML Instance Representation

```
<...>
  <fxFeature> FxFeature </fxFeature> [0..1]
  'A quanto or composite FX feature.'

  <strategyFeature> StrategyFeature </strategyFeature> [0..1]
  'A simple strategy feature.'

  <asian> Asian </asian> [0..1]
  'An option where and average price is taken on valuation.'

  <barrier> Barrier </barrier> [0..1]
  'An option with a barrier feature.'

  <knock> Knock </knock> [0..1]
  'A knock feature.'

  <passThrough> PassThrough </passThrough> [0..1]
  'Pass through payments from the underlyer, such as dividends.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OptionFeature">
  <xsd:sequence>
    <xsd:group ref="OptionBaseFeature.model"/>
    <xsd:group ref="OptionFeature.model"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **OptionNumericStrike**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">OptionStrike</a> (by extension)</li></ul>
Name	OptionNumericStrike



Abstract	no
Documentation	A type for defining the strike price for an option as a numeric value without currency.

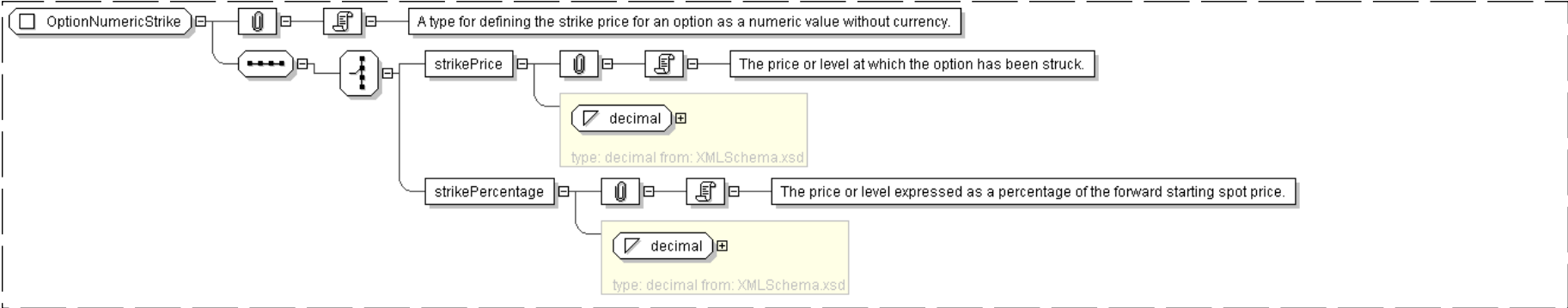
XML Instance Representation

```
<...>
Start Choice [1]
  <strikePrice> xsd:decimal </strikePrice> [1]
  'The price or level at which the option has been struck.'

  <strikePercentage> xsd:decimal </strikePercentage> [1]
  'The price or level expressed as a percentage of the forward starting spot price.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="OptionNumericStrike">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="strikePrice" type="xsd:decimal" />
      <xsd:element name="strikePercentage" type="xsd:decimal" />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **OptionStrike**

Super-types:	<a href="#">OptionNumericStrike</a> < <b>OptionStrike</b> (by extension)
Sub-types:	None

Name	OptionStrike
Used by (from the same schema document)	Complex Type <a href="#">StrikeSpread</a>
Abstract	no
Documentation	A type for defining the strike price for an equity option. The strike price is either: (i) in respect of an index option transaction, the level of the relevant index specified or otherwise determined in the transaction; or (ii) in respect of a share option transaction, the price per share specified or otherwise determined in the transaction. This can be expressed either as a percentage of notional amount or as an absolute value.

XML Instance Representation

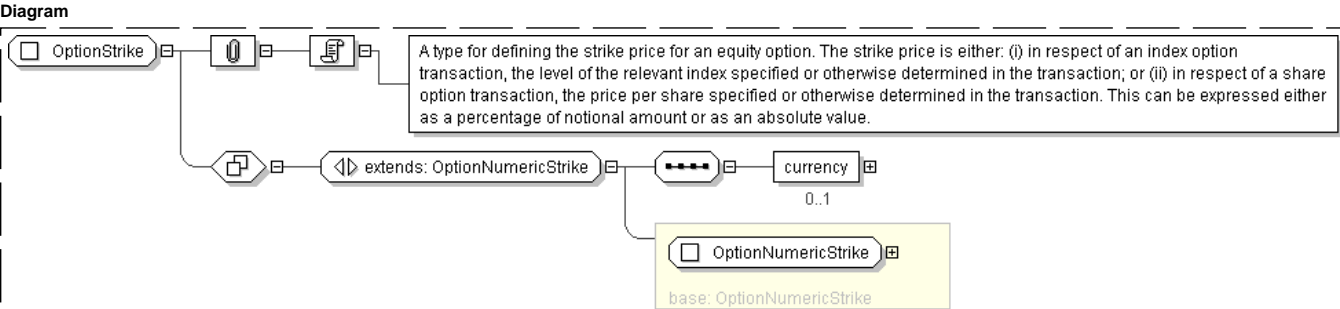
```
<...>
Start Choice [1]
  <strikePrice> xsd:decimal </strikePrice> [1]
  'The price or level at which the option has been struck.'
```

```
<strikePercentage> xsd:decimal </strikePercentage> [1]
  'The price or level expressed as a percentage of the forward starting spot price.'
```

End Choice

```
<currency> Currency </currency> [0..1]
  'The currency in which an amount is denominated.'
```

```
</...>
```



Schema Component Representation

```
<xsd:complexType name="OptionStrike">
  <xsd:complexContent>
    <xsd:extension base=" OptionNumericStrike " >
      <xsd:sequence>
        <xsd:element name="currency" type=" Currency " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PassThrough**

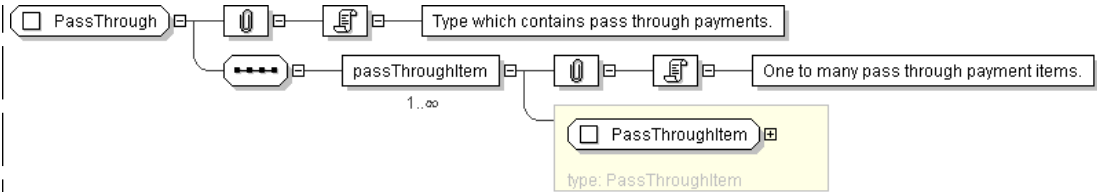
Super-types:	None
Sub-types:	None
Name	PassThrough
Used by (from the same schema document)	Model Group <a href="#">OptionFeature.model</a>
Abstract	no
Documentation	Type which contains pass through payments.

XML Instance Representation

```
<...>
  <passThroughItem> PassThroughItem </passThroughItem> [1..*]
  'One to many pass through payment items.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PassThrough">
  <xsd:sequence>
    <xsd:element name="passThroughItem" type="PassThroughItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PassThroughItem**

Super-types:	None
Sub-types:	None

Name	PassThroughItem
Used by (from the same schema document)	Complex Type <a href="#">PassThrough</a>
Abstract	no
Documentation	Type to represent a single pass through payment.

XML Instance Representation

```
<...>
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

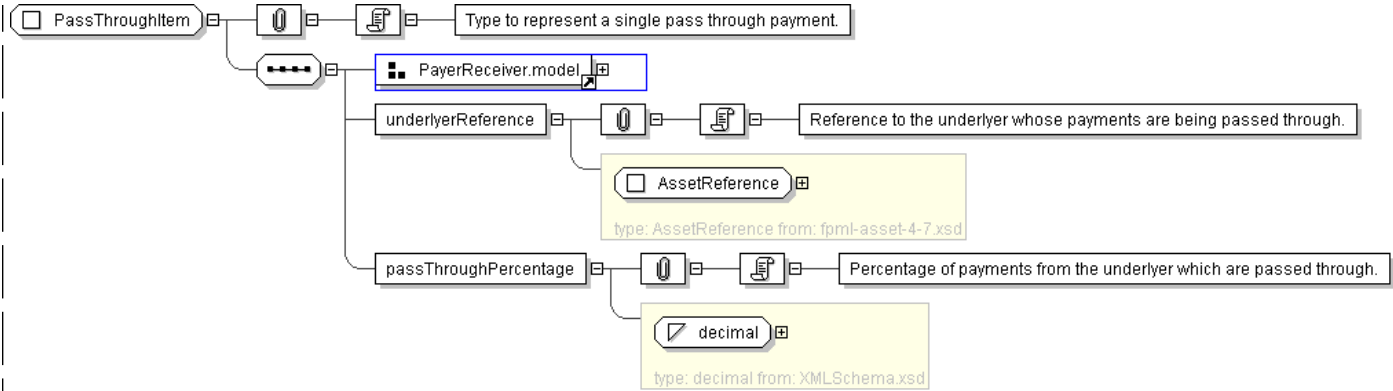
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <underlyerReference> AssetReference </underlyerReference> [1]
  'Reference to the underlyer whose payments are being passed through.'

  <passThroughPercentage> xsd:decimal </passThroughPercentage> [1]
  'Percentage of payments from the underlyer which are passed through.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PassThroughItem">
  <xsd:sequence>
    <xsd:group ref=" PayerReceiver.model " />
    <xsd:element name="underlyerReference" type=" AssetReference " />
    <xsd:element name="passThroughPercentage" type=" xsd:decimal " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Premium**

Super-types:	<a href="#">SimplePayment</a> < <b>Premium</b> (by extension)
Sub-types:	None

Name	Premium
Used by (from the same schema document)	Complex Type <a href="#">OptionBaseExtended</a>
Abstract	no
Documentation	A type for defining a premium.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentAmount> Money </paymentAmount> [1]
  <paymentDate> AdjustableOrRelativeAndAdjustedDate </paymentDate> [1]
  'The payment date. This date is subject to adjustment in accordance with any
  applicable business day convention.'

  Start Group: Premium.model [0..1]
    <premiumType> PremiumTypeEnum </premiumType> [0..1]
    'Forward start Premium type'

    <pricePerOption> Money </pricePerOption> [0..1]
    'The amount of premium to be paid expressed as a function of the number of options.'

    <percentageOfNotional> xsd:decimal </percentageOfNotional> [0..1]
```

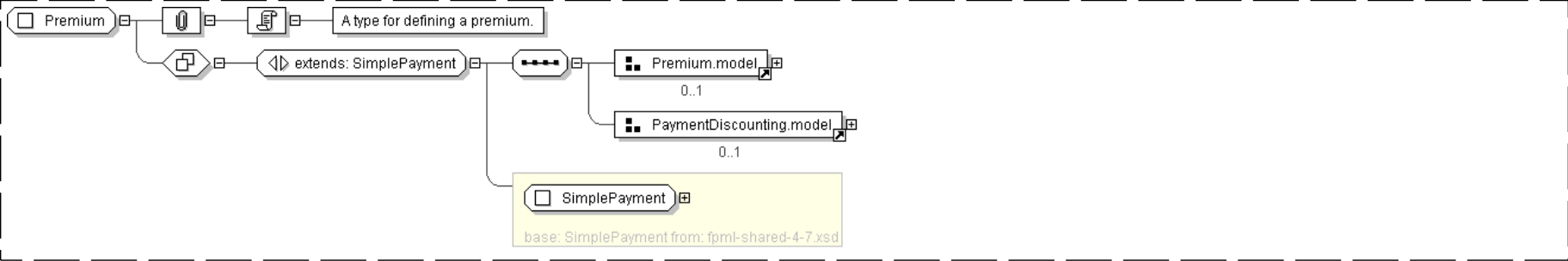
```
'The amount of premium to be paid expressed as a percentage of the notional value of
the transaction. A percentage of 5% would be expressed as 0.05.'
```

```
End Group: Premium.model
Start Group: PaymentDiscounting.model [0..1]
<discountFactor> xsd:decimal </discountFactor> [0..1]
'The value representing the discount factor used to calculate the present value of the
cash flow.'
```

```
<presentValueAmount> Money </presentValueAmount> [0..1]
'The amount representing the present value of the forecast payment.'
```

```
End Group: PaymentDiscounting.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Premium">
  <xsd:complexContent>
    <xsd:extension base=" SimplePayment " >
      <xsd:sequence>
        <xsd:group ref=" Premium.model " minOccurs="0"/>
        <xsd:group ref=" PaymentDiscounting.model " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: PubliclyAvailableInformation

Super-types:	None
Sub-types:	None
Name	PubliclyAvailableInformation
Used by (from the same schema document)	Complex Type <a href="#">CreditEventNotice</a>
Abstract	no

XML Instance Representation

```
<...>
<standardPublicSources> Empty </standardPublicSources> [0..1]
'If this element is specified, indicates that ISDA defined Standard Public Sources
are applicable.'
```

```
<publicSource> xsd:string </publicSource> [0..*]
'A public information source, e.g. a particular newspaper or electronic news service, that
may publish relevant information used in the determination of whether or not a credit event
```

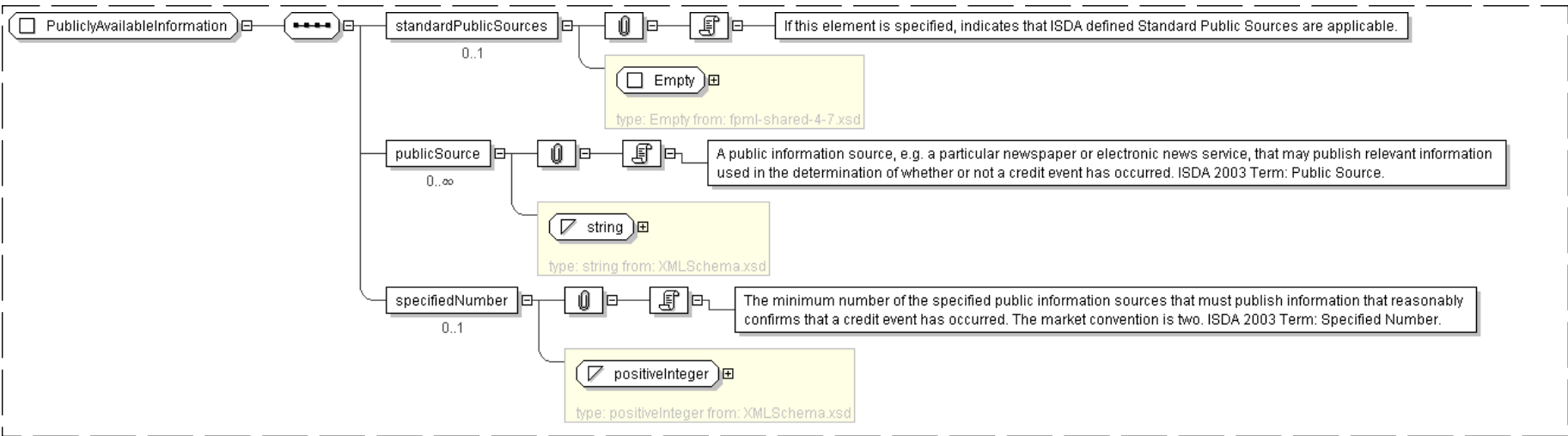
has occurred. ISDA 2003 Term: Public Source.'

```
<specifiedNumber> xsd:positiveInteger </specifiedNumber> [0..1]
```

'The minimum number of the specified public information sources that must publish information that reasonably confirms that a credit event has occurred. The market convention is two. ISDA 2003 Term: Specified Number.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="PubliclyAvailableInformation">
  <xsd:sequence>
    <xsd:element name="standardPublicSources" type="Empty" minOccurs="0"/>
    <xsd:element name="publicSource" type="xsd:string" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="specifiedNumber" type="xsd:positiveInteger" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Quanto**

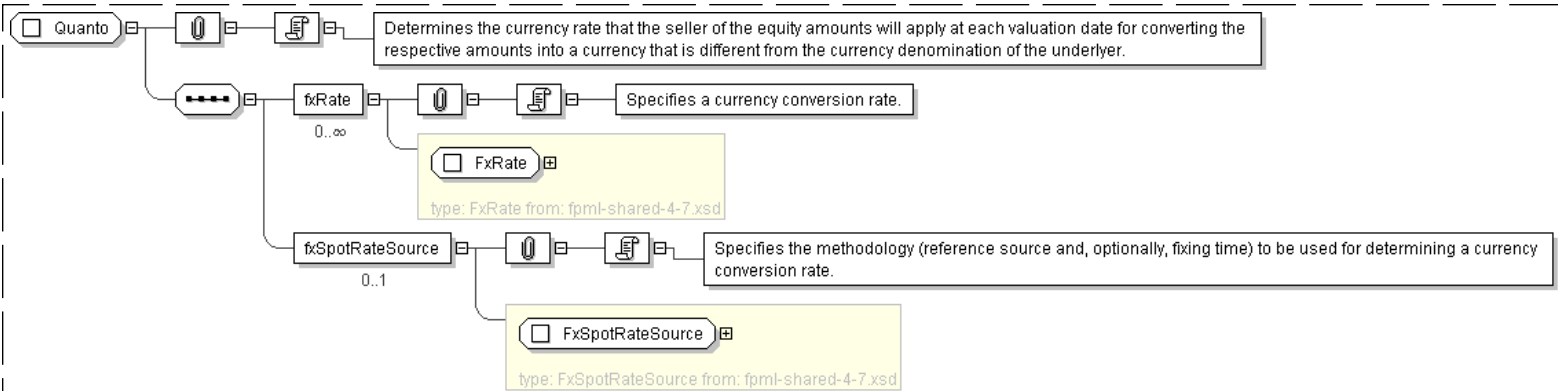
Super-types:	None
Sub-types:	None
Name	Quanto
Used by (from the same schema document)	Complex Type <a href="#">FxFeature</a>
Abstract	no
Documentation	Determines the currency rate that the seller of the equity amounts will apply at each valuation date for converting the respective amounts into a currency that is different from the currency denomination of the underlying.

XML Instance Representation

```
<...>
  <fxRate> FxRate </fxRate> [0..*]
  'Specifies a currency conversion rate.'FxSpotRateSource </fxSpotRateSource> [0..1]
  'Specifies the methodology (reference source and, optionally, fixing time) to be used for determining a currency conversion rate.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Quanto">
  <xsd:sequence>
    <xsd:element name="fxRate" type=" FxRate " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="fxSpotRateSource" type=" FxSpotRateSource " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: Restructuring

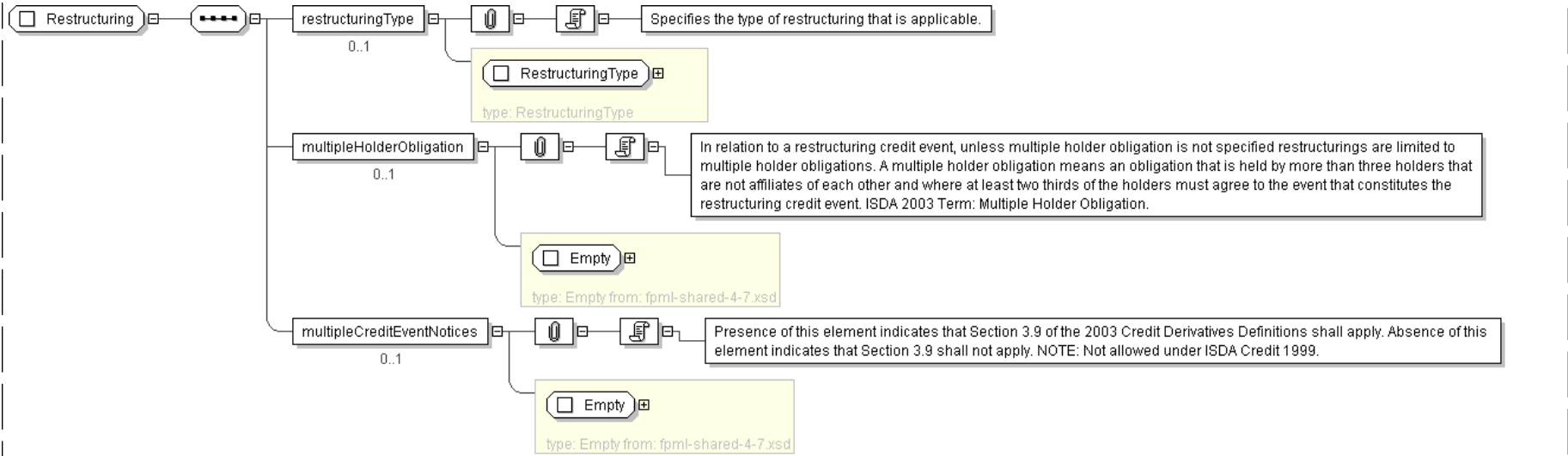
Super-types:	None
Sub-types:	None
Name	Restructuring
Used by (from the same schema document)	Complex Type <a href="#">CreditEvents</a>
Abstract	no

XML Instance Representation

```
<...>
<restructuringType> RestructuringType </restructuringType> [0..1]
  'Specifies the type of restructuring that is applicable.'

<multipleHolderObligation> Empty </multipleHolderObligation> [0..1]
  'In relation to a restructuring credit event, unless multiple holder obligation is
  not specified restructurings are limited to multiple holder obligations. A multiple
  holder obligation means an obligation that is held by more than three holders that are
  not affiliates of each other and where at least two thirds of the holders must agree to
  the event that constitutes the restructuring credit event. ISDA 2003 Term: Multiple
  Holder Obligation.'Empty </multipleCreditEventNotices> [0..1]
  'Presence of this element indicates that Section 3.9 of the 2003 Credit Derivatives
  Definitions shall apply. Absence of this element indicates that Section 3.9 shall not
  apply. NOTE: Not allowed under ISDA Credit 1999.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Restructuring">
  <xsd:sequence>
    <xsd:element name="restructuringType" type=" RestructuringType " minOccurs="0"/>
    <xsd:element name="multipleHolderObligation" type=" Empty " minOccurs="0"/>
    <xsd:element name="multipleCreditEventNotices" type=" Empty " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: RestructuringType

Super-types:	<a href="#">Scheme</a> < <b>RestructuringType</b> (by extension)
Sub-types:	None

Name	RestructuringType
Used by (from the same schema document)	Complex Type <a href="#">Restructuring</a>
Abstract	no

XML Instance Representation

```
<...
restructuringScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RestructuringType">
  <xsd:simpleContent>
```



```
<xsd:extension base=" Scheme ">
  <xsd:attribute name="restructuringScheme" type=" xsd:anyURI " default="http://www.fpml.
    org/coding-scheme/restructuring"/>
</xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **StrategyFeature**

Super-types:	None
Sub-types:	None
Name	StrategyFeature
Used by (from the same schema document)	Model Group <a href="#">OptionBaseFeature.model</a>
Abstract	no
Documentation	A type for defining equity option simple strike or calendar spread strategy features.

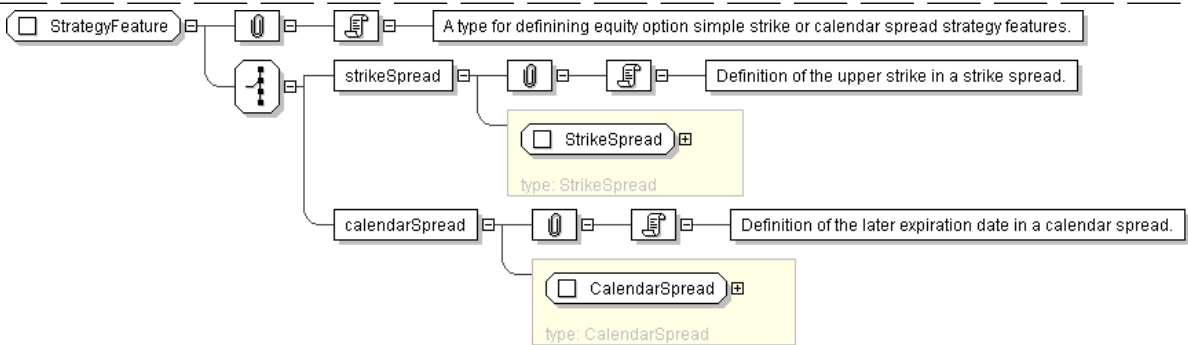
XML Instance Representation

```
<...>
Start Choice [1]
  <strikeSpread> StrikeSpread </strikeSpread> [1]
  'Definition of the upper strike in a strike spread.'

  <calendarSpread> CalendarSpread </calendarSpread> [1]
  'Definition of the later expiration date in a calendar spread.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StrategyFeature">
  <xsd:choice>
    <xsd:element name="strikeSpread" type=" StrikeSpread "/>
    <xsd:element name="calendarSpread" type=" CalendarSpread "/>
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: **StrikeSpread**

Super-types:	None
Sub-types:	None

Name	StrikeSpread
Used by (from the same schema document)	Complex Type <a href="#">StrategyFeature</a>
Abstract	no
Documentation	A type for defining a strike spread feature.

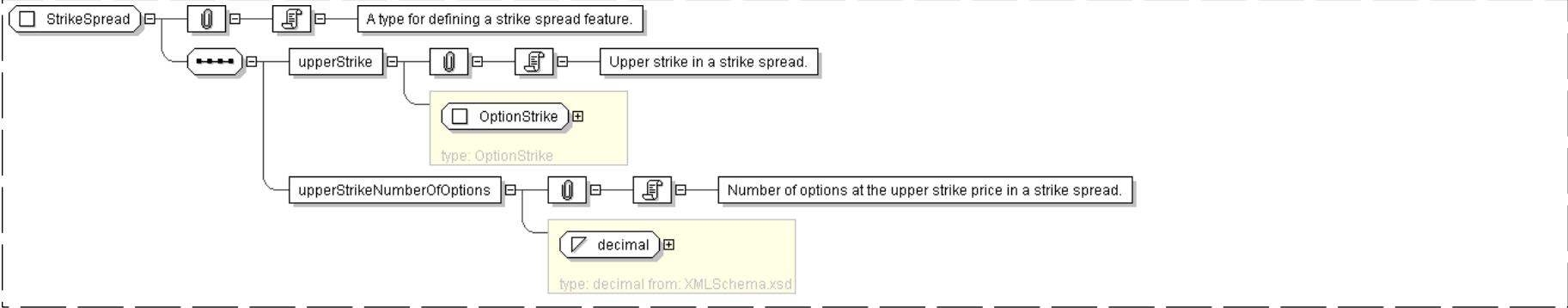
XML Instance Representation

```
<...>
  <upperStrike> OptionStrike </upperStrike> [1]
  'Upper strike in a strike spread.'

  <upperStrikeNumberOfOptions> xsd:decimal </upperStrikeNumberOfOptions> [1]
  'Number of options at the upper strike price in a strike spread.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StrikeSpread">
  <xsd:sequence>
    <xsd:element name="upperStrike" type=" OptionStrike "/>
    <xsd:element name="upperStrikeNumberOfOptions" type=" xsd:decimal "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Trigger**

Super-types:	None
Sub-types:	None

Name	Trigger
Used by (from the same schema document)	Complex Type <a href="#">TriggerEvent</a>
Abstract	no
Documentation	Trigger point at which feature is effective.

XML Instance Representation

```
<...>
Start Choice [1]
  <level> xsd:decimal </level> [1]
  'The trigger level.'
```

```
<levelPercentage> xsd:decimal </levelPercentage> [1]
```

'The trigger level percentage.'

Start Choice [1]

'Choice between either an explicit representation of Credit Events, or Credit Events defined elsewhere in the document.'

```
<creditEvents> CreditEvents </creditEvents> [1]
```

```
<creditEventsReference> CreditEventsReference </creditEventsReference> [1]
```

End Choice

End Choice

```
<triggerType> TriggerTypeEnum </triggerType> [0..1]
```

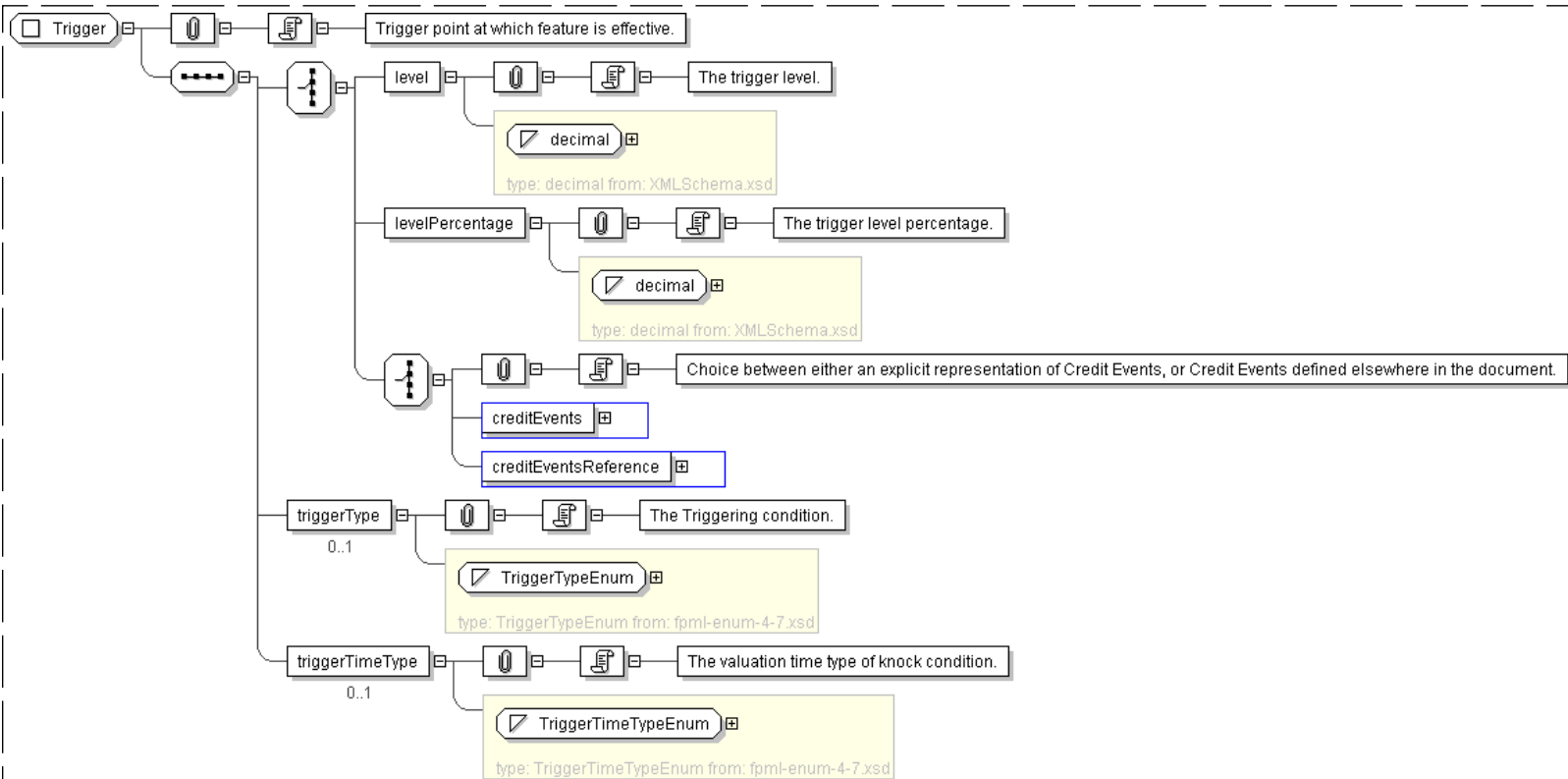
'The Triggering condition.'

```
<triggerTimeType> TriggerTimeTypeEnum </triggerTimeType> [0..1]
```

'The valuation time type of knock condition.'

```
</...>
```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="Trigger">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="level" type="xsd:decimal" />
      <xsd:element name="levelPercentage" type="xsd:decimal" />
    <xsd:choice>
      <xsd:element name="creditEvents" type="CreditEvents" />
    
```

```

    <xsd:element name="creditEventsReference" type=" CreditEventsReference "/>
  </xsd:choice>
</xsd:choice>
<xsd:element name="triggerType" type=" TriggerTypeEnum " minOccurs="0" maxOccurs="1"/>
<xsd:element name="triggerTimeType" type=" TriggerTimeTypeEnum " minOccurs="0" maxOccurs="1"/>
</xsd:sequence>
</xsd:complexType>

```

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Complex Type: **TriggerEvent**

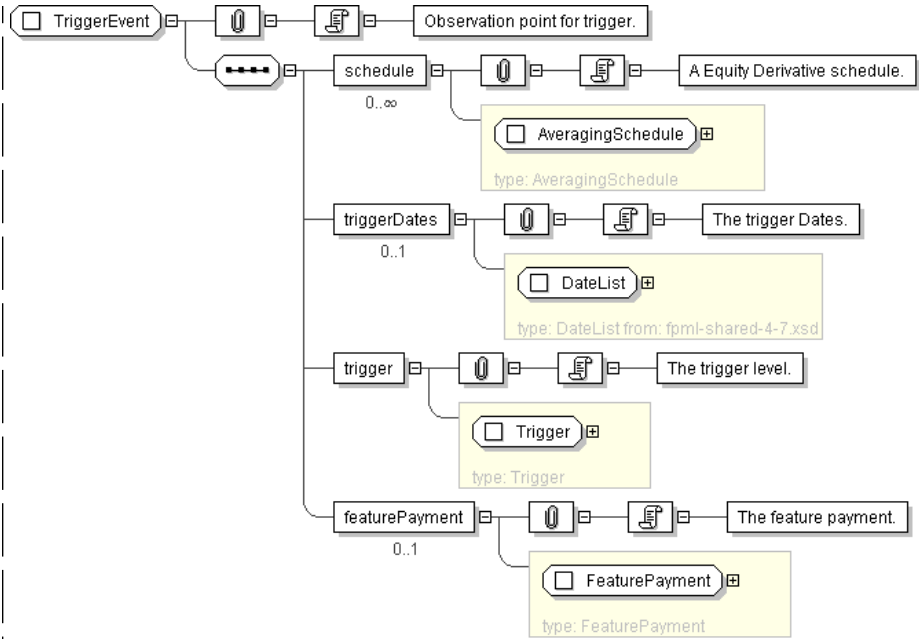
Super-types:	None
Sub-types:	None
Name	TriggerEvent
Used by (from the same schema document)	Complex Type <a href="#">Barrier</a> , Complex Type <a href="#">Barrier</a> , Complex Type <a href="#">Knock</a> , Complex Type <a href="#">Knock</a>
Abstract	no
Documentation	Observation point for trigger.

XML Instance Representation

```

<...>
<schedule> AveragingSchedule </schedule> [0..*]
  'A Equity Derivative schedule.'DateList </triggerDates> [0..1]
  'The trigger Dates.'Trigger </trigger> [1]
  'The trigger level.'FeaturePayment </featurePayment> [0..1]
  'The feature payment.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TriggerEvent">
  <xsd:sequence>
    <xsd:element name="schedule" type=" AveragingSchedule " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="triggerDates" type=" DateList " minOccurs="0"/>
    <xsd:element name="trigger" type=" Trigger "/>
    <xsd:element name="featurePayment" type=" FeaturePayment " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **WeightedAveragingObservation**

Super-types:	None
Sub-types:	None
Name	WeightedAveragingObservation
Used by (from the same schema document)	Complex Type <a href="#">AveragingObservationList</a>
Abstract	no
Documentation	A single weighted averaging observation.

XML Instance Representation

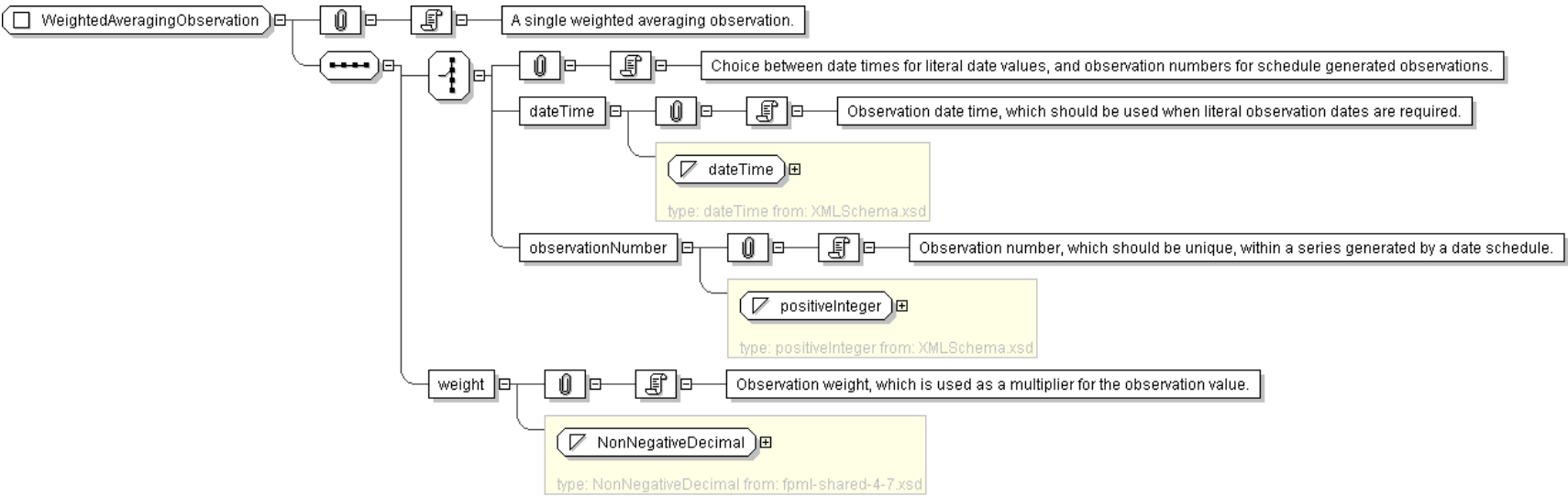
```
<...>
Start Choice [1]
'Choice between date times for literal date values, and observation numbers for
schedule generated observations.'

<dateTime> xsd:dateTime </dateTime> [1]
'Observation date time, which should be used when literal observation dates are required.'

<observationNumber> xsd:positiveInteger </observationNumber> [1]
'Observation number, which should be unique, within a series generated by a date schedule.'
```

```
End Choice
<weight> NonNegativeDecimal </weight> [1]
  'Observation weight, which is used as a multiplier for the observation value.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="WeightedAveragingObservation">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="dateTime" type="xsd:dateTime" />
      <xsd:element name="observationNumber" type="xsd:positiveInteger" />
    </xsd:choice>
    <xsd:element name="weight" type="NonNegativeDecimal" />
  </xsd:sequence>
</xsd:complexType>
```

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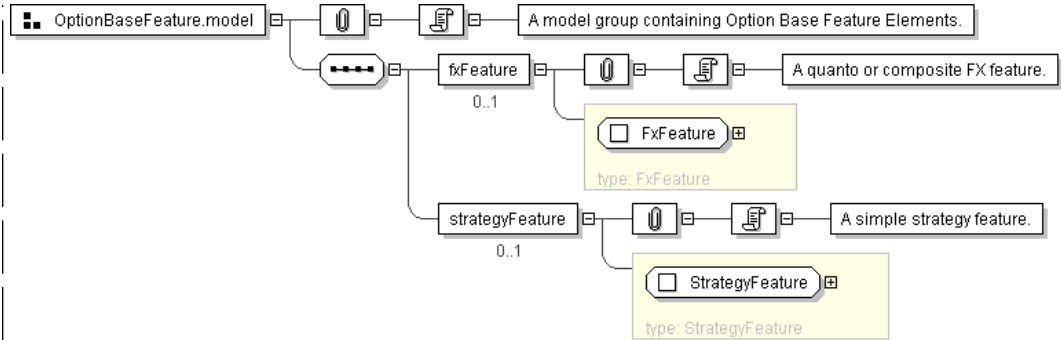
Model Group: OptionBaseFeature.model

Name	OptionBaseFeature.model
Used by (from the same schema document)	Complex Type <a href="#">OptionFeature</a>
Documentation	A model group containing Option Base Feature Elements.

XML Instance Representation

```
<fxFeature> FxFeature </fxFeature> [0..1]
  'A quanto or composite FX feature.'
<strategyFeature> StrategyFeature </strategyFeature> [0..1]
  'A simple strategy feature.'
```

Diagram



Schema Component Representation

```
<xsd:group name="OptionBaseFeature.model">
  <xsd:sequence>
    <xsd:element name="fxFeature" type=" FxFeature " minOccurs="0"/>
    <xsd:element name="strategyFeature" type=" StrategyFeature " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: OptionDenomination.model

Name	OptionDenomination.model
Used by (from the same schema document)	Complex Type <a href="#">OptionBaseExtended</a>
Documentation	A model group containing the option denomination components.

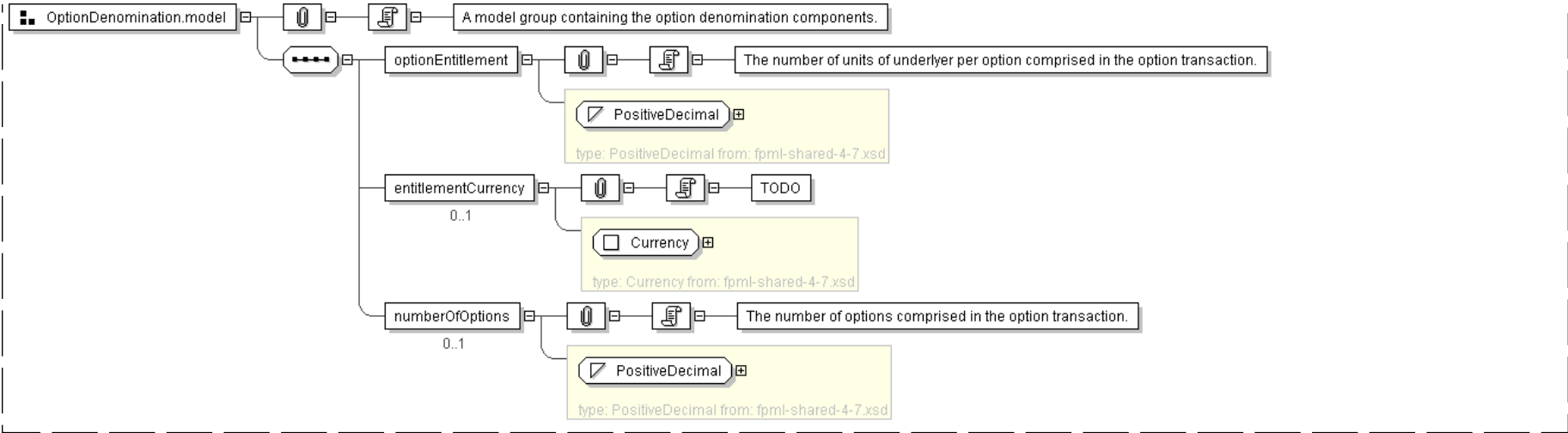
XML Instance Representation

```
<optionEntitlement> PositiveDecimal </optionEntitlement> [1]
'The number of units of underlyer per option comprised in the option transaction.'
```

```
<entitlementCurrency> Currency </entitlementCurrency> [0..1]
'TODO'
```

```
<numberOfOptions> PositiveDecimal </numberOfOptions> [0..1]
'The number of options comprised in the option transaction.'
```

Diagram



Schema Component Representation

```
<xsd:group name="OptionDenomination.model">
  <xsd:sequence>
    <xsd:element name="optionEntitlement" type="PositiveDecimal" />
    <xsd:element name="entitlementCurrency" type="Currency" minOccurs="0"/>
    <xsd:element name="numberOfOptions" type="PositiveDecimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: OptionFeature.model

Name	OptionFeature.model
Used by (from the same schema document)	Complex Type <a href="#">OptionFeature</a>
Documentation	A model group containing Option Base Feature Elements.

XML Instance Representation

```
<asian> Asian </asian> [0..1]
'An option where and average price is taken on valuation.'
```

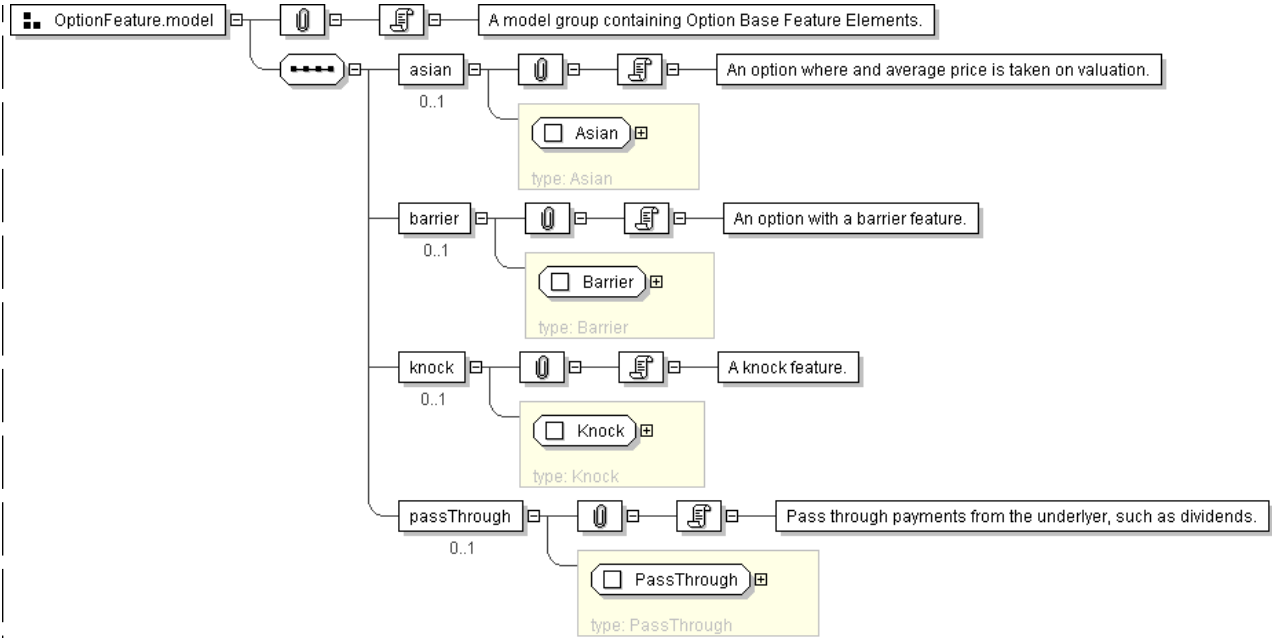
```
<barrier> Barrier </barrier> [0..1]
'An option with a barrier feature.'
```

```
<knock> Knock </knock> [0..1]
'A knock feature.'
```

```
<passThrough> PassThrough </passThrough> [0..1]
'Pass through payments from the underlying, such as dividends.'
```

Diagram





Schema Component Representation

```
<xsd:group name="OptionFeature.model">
  <xsd:sequence>
    <xsd:element name="asian" type="Asian" minOccurs="0"/>
    <xsd:element name="barrier" type="Barrier" minOccurs="0"/>
    <xsd:element name="knock" type="Knock" minOccurs="0"/>
    <xsd:element name="passThrough" type="PassThrough" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: OptionSettlement.model

Name	OptionSettlement.model
Used by (from the same schema document)	Complex Type <a href="#">OptionBaseExtended</a>
Documentation	A group which has Option Settlement elements.

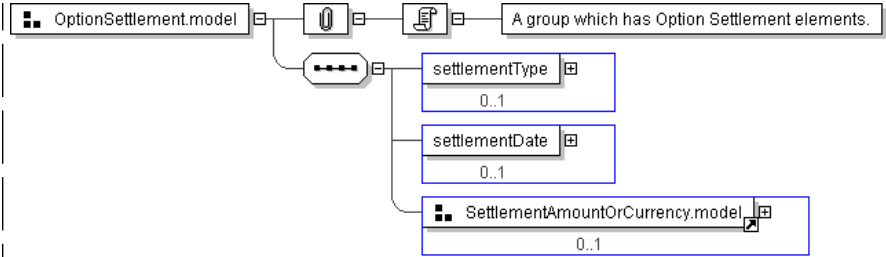
XML Instance Representation

```
<settlementType> SettlementTypeEnum </settlementType> [0..1]
<settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
Start Group: SettlementAmountOrCurrency.model [0..1]
Start Choice [1]
  <settlementAmount> Money </settlementAmount> [1]
  'Settlement Amount'

  <settlementCurrency> Currency </settlementCurrency> [1]
  'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice
End Group: SettlementAmountOrCurrency.model
```

Diagram



Schema Component Representation

```
<xsd:group name="OptionSettlement.model">
  <xsd:sequence>
    <xsd:element name="settlementType" type="SettlementTypeEnum" minOccurs="0"/>
    <xsd:element name="settlementDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
    <xsd:group ref="SettlementAmountOrCurrency.model" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates " />
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}" />
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cldentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cldentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the  `xsi:nil`  attribute. The  `xsi:nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi:nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	http://www.w3.org/XML/1998/namespace
ecore	http://www.eclipse.org/emf/2002/Ecore
fpml-annotation	http://www.fpml.org/annotation
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	http://www.w3.org/2000/09/xmldsig#
xsd	http://www.w3.org/2001/XMLSchema

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  ...
</xsd:schema>
```

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## Global Definitions

### Complex Type: **AffectedTransactions**

Super-types:	None
Sub-types:	None

Name	AffectedTransactions
Abstract	no

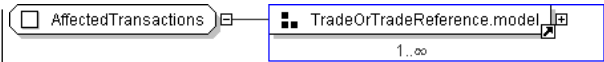
XML Instance Representation

```
<...>
  Start Group: TradeOrTradeReference.model [1..*]
  Start Choice [1]
    <trade> Trade </trade> [1]
    'An element that allows the full details of the trade to be used as a mechanism for identifying the trade for which the post-trade event pertains'

    <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
    'A container since an individual trade can be referenced by two or more different partyTradeIdentifier elements - each allocated by a different party.'

  End Choice
  End Group: TradeOrTradeReference.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AffectedTransactions">
  <xsd:group ref=" TradeOrTradeReference.model " maxOccurs="unbounded"/>
</xsd:complexType>
```

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Complex Type: **Novation**

Super-types:	<a href="#">Event</a> < <b>Novation</b> (by extension)
Sub-types:	None

Name	Novation
Used by (from the same schema document)	Model Group <a href="#">NovationMessage.model</a>
Abstract	no
Documentation	An event type that records the occurrence of a novation

XML Instance Representation

```
<...>
  <eventId> EventId </eventId> [0..*]
  ''

  Start Choice [1]
  Start Choice [1]
    <newTransactionReference> PartyTradeIdentifiers </newTransactionReference> [1]
    'Indicates a reference to the new transaction between the transferee and the remaining party.'

    <newTransaction> Trade </newTransaction> [1]
    'Indicates the new transaction between the transferee and the remaining party.'

  End Choice
  Start Choice [1]
    <oldTransactionReference> PartyTradeIdentifiers </oldTransactionReference> [1]
    'Indicates a reference to the original trade between the transferor and the remaining party.'

    <oldTransaction> Trade </oldTransaction> [1]
    'Indicates the original trade between the transferor and the remaining party.'
```

End Choice

Start [Choice](#) [0..1]`<newTransactionReference> PartyTradeIdentifiers </newTransactionReference> [1]`*'Indicates a reference to the new transaction between the transferee and the remaining party.'*`<newTransaction> Trade </newTransaction> [1]`*'Indicates the new transaction between the transferee and the remaining party.'*

End Choice

End Choice

`<transferor> PartyReference </transferor> [1]`*'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Transferor (outgoing party) in the novation. The Transferor means a party which transfers by novation to a Transferee all of its rights, liabilities, duties and obligations with respect to a Remaining Party. In a four-way novation the party referenced is Transferor 1 which transfers by novation to Transferee 1 all of its rights, liabilities, duties and obligations with respect to Transferor 2. ISDA 2004 Novation Term: Transferor (three-way novation) or Transferor 1 (four-way novation).'*`<transferee> PartyReference </transferee> [1]`*'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Transferee (incoming party) in the novation. Transferee means a party which accepts by way of novation all rights, liabilities, duties and obligations of a Transferor with respect to a Remaining Party. In a four-way novation the party referenced is Transferee 1 which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 1. ISDA 2004 Novation Term: Transferee (three-way novation) or Transferee 1 (four-way novation).'*`<remainingParty> PartyReference </remainingParty> [1]`*'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Remaining Party in the novation. Remaining Party means a party which consents to a Transferor's transfer by novation and the acceptance thereof by the Transferee of all of the Transferor's rights, liabilities, duties and obligations with respect to such Remaining Party under and with respect of the Novated Amount of a transaction. In a four-way novation the party referenced is Transferor 2 per the ISDA definition and acts in the role of a Transferor. Transferor 2 transfers by novation to Transferee 2 all of its rights, liabilities, duties and obligations with respect to Transferor 1. ISDA 2004 Novation Term: Remaining Party (three-way novation) or Transferor 2 (four-way novation).'*`<otherRemainingParty> PartyReference </otherRemainingParty> [0..1]`*'A pointer style reference to a party identifier defined elsewhere in the document. This element is not applicable in a three-way novation and should be omitted. In a four-way novation the party referenced is Transferee 2. Transferee 2 means a party which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 2. ISDA 2004 Novation Term: Transferee 2 (four-way novation).'*`<novationDate> xsd:date </novationDate> [1]`*'Specifies the date that one party's legal obligations with regard to a trade are transferred to another party. It corresponds to the Novation Date section of the 2004 ISDA Novation Definitions, section 1.16.'*`<novationTradeDate> xsd:date </novationTradeDate> [0..1]`*'Specifies the date the parties agree to assign or novate a trade. If this element is not specified, the novationTradeDate will be deemed to be the novationDate. It corresponds to the Novation Trade Date section of the 2004 ISDA Novation Definitions, section 1.17.'*Start [Choice](#) [0..1]`<novatedAmount> Money </novatedAmount> [1]`*'The amount which represents the portion of the Old Transaction being novated.'*`<novatedNumberOfOptions> xsd:decimal </novatedNumberOfOptions> [1]`*'The number of options which represent the portion of the Old Transaction being novated.'*

End Choice

`<remainingTrade> Trade </remainingTrade> [0..1]`*'This element contains a description of the remaining portion of a partially novated trade.'*`<fullFirstCalculationPeriod> xsd:boolean </fullFirstCalculationPeriod> [0..1]`

'This element corresponds to the applicability of the Full First Calculation Period as defined in the 2004 ISDA Novation Definitions, section 1.20.'

<firstPeriodStartDate> [FirstPeriodStartDate](#) </firstPeriodStartDate> [0..2]

'Element that is used to be able to make sense of the "new transaction" without requiring reference back to the "old transaction". In the case of interest rate products there are potentially 2 "first period start dates" to reference - one with respect to each party to the new transaction. For Credit Default Swaps there is just the one with respect to the party that is the fixed rate payer.'

<nonReliance> [Empty](#) </nonReliance> [0..1]

'This element corresponds to the non-Reliance section in the 2004 ISDA Novation Definitions, section 2.1 (c) (i). The element appears in the instance document when non-Reliance is applicable.'

<creditDerivativesNotices> [CreditDerivativesNotices](#) </creditDerivativesNotices> [0..1]

'This element should be specified if one or more of either a Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party. The type of notice or notices that have been delivered should be indicated by setting the relevant boolean element value(s) to true. The absence of the element means that no Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party.'

<contractualDefinitions> [ContractualDefinitions](#) </contractualDefinitions> [0..\*]

'The definitions (such as those published by ISDA) that will define the terms of the novation transaction.'

Start [Choice](#) [1]

<contractualSupplement> [ContractualSupplement](#) </contractualSupplement> [0..\*]

'DEPRECATED - This element will be removed in the next major version of FpML. The element contractualTermsSupplement should be used instead. Definition: A contractual supplement (such as those published by ISDA) that will apply to the trade.'

<contractualTermsSupplement> [ContractualTermsSupplement](#) </contractualTermsSupplement> [0..\*]

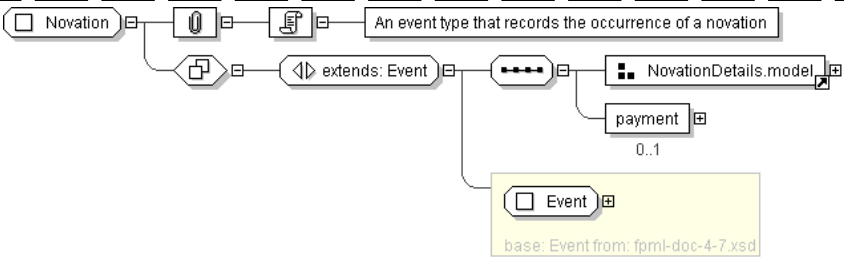
'A contractual supplement (such as those published by ISDA) that will apply to the trade.'

End Choice

<payment> [Payment](#) </payment> [0..1]

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Novation">
  <xsd:complexContent>
    <xsd:extension base="Event" >
      <xsd:sequence>
        <xsd:group ref="NovationDetails.model" />
        <xsd:element name="payment" type="Payment" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



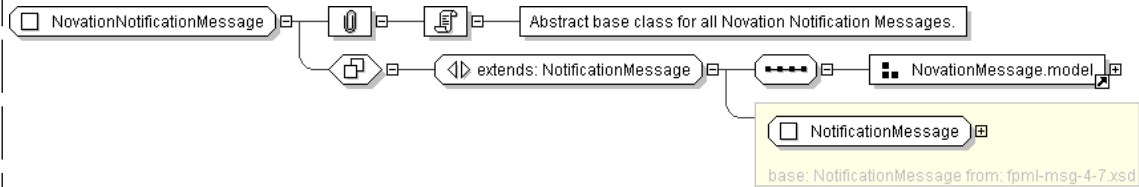
Complex Type: **NovationNotificationMessage**

Super-types:	<a href="#">NotificationMessage</a> < <b>NovationNotificationMessage</b> (by extension)
Sub-types:	None
Name	NovationNotificationMessage
Abstract	yes
Documentation	Abstract base class for all Novation Notification Messages.

XML Instance Representation

```
<...  
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
  'Indicate which version of the FpML Schema an FpML message adheres to.'  
  "  
  expectedBuild=" xsd:positiveInteger [0..1]  
  'This optional attribute can be supplied by a message creator in an FpML instance to  
  specify which build number of the schema was used to define the message when it was generated.'  
  "  
  actualBuild="5 [0..1]  
  'The specific build number of this schema version. This attribute is not included in  
  an instance document. Instead, it is supplied by the XML parser when the document is  
  validated against the FpML schema and indicates the build number of the schema file. Every  
  time FpML publishes a change to the schema, validation rules, or examples within a version  
  (e.g., version 4.2) the actual build number is incremented. If no changes have been  
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)  
  the actual build number stays the same.'  
  ">  
  <header> NotificationMessageHeader </header> [1]  
  <validation> Validation </validation> [0..*]  
  <novation> Novation </novation> [1]  
  <party> Party </party> [3..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationNotificationMessage" abstract="true">  
  <xsd:complexContent>  
    <xsd:extension base=" NotificationMessage ">  
      <xsd:sequence>  
        <xsd:group ref=" NovationMessage.model "/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

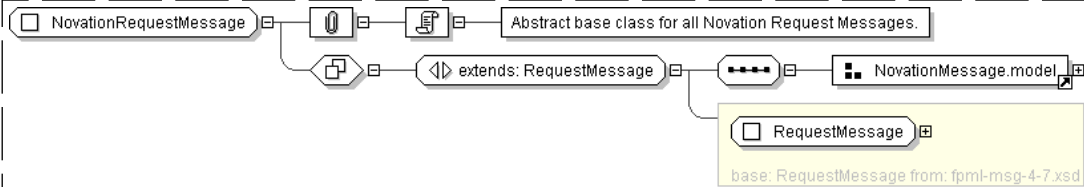
Complex Type: **NovationRequestMessage**

Super-types:	<a href="#">RequestMessage</a> < <b>NovationRequestMessage</b> (by extension)
Sub-types:	None
Name	NovationRequestMessage
Abstract	yes
Documentation	Abstract base class for all Novation Request Messages.

XML Instance Representation

```
<...  
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
  'Indicate which version of the FpML Schema an FpML message adheres to.'  
  "  
  expectedBuild=" xsd:positiveInteger [0..1]  
  'This optional attribute can be supplied by a message creator in an FpML instance to  
  specify which build number of the schema was used to define the message when it was generated.'  
  "  
  actualBuild="5 [0..1]  
  'The specific build number of this schema version. This attribute is not included in  
  an instance document. Instead, it is supplied by the XML parser when the document is  
  validated against the FpML schema and indicates the build number of the schema file. Every  
  time FpML publishes a change to the schema, validation rules, or examples within a version  
  (e.g., version 4.2) the actual build number is incremented. If no changes have been  
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)  
  the actual build number stays the same.'  
  ">  
  <header> RequestMessageHeader </header> [1]  
  <validation> Validation </validation> [0..*]  
  <novation> Novation </novation> [1]  
  <party> Party </party> [3..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationRequestMessage" abstract="true">  
  <xsd:complexContent>  
    <xsd:extension base=" RequestMessage ">  
      <xsd:sequence>  
        <xsd:group ref=" NovationMessage.model "/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **NovationResponseMessage**

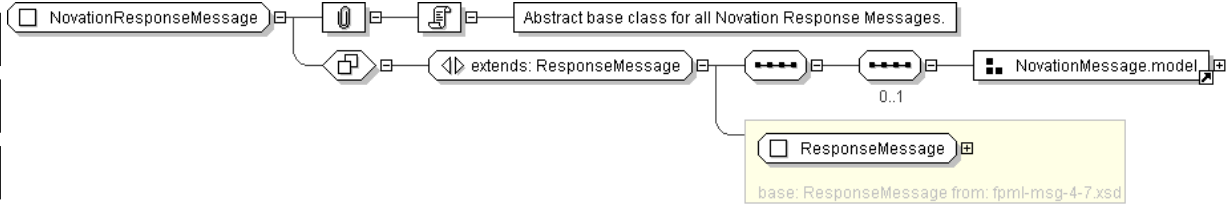
Super-types:	<a href="#">ResponseMessage</a> < <b>NovationResponseMessage</b> (by extension)
Sub-types:	None
Name	NovationResponseMessage

Abstract	yes
Documentation	Abstract base class for all Novation Response Messages.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  Start Sequence [0..1]
    <novation> Novation </novation> [1]
    <party> Party </party> [3..*]
  End Sequence
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationResponseMessage" abstract="true">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:sequence minOccurs="0">
          <xsd:group ref=" NovationMessage.model "/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: PartialTerminationAmount

Super-types:	None
Sub-types:	None
Name	PartialTerminationAmount

Used by (from the same schema document)	Model Group <a href="#">TerminationDetails.model</a>
Abstract	no

XML Instance Representation

```
<...>
Start Choice [0..1]
  <decreaseInNotionalAmount> Money </decreaseInNotionalAmount> [1]
  'Specifies the fixed amount by which the Notional decreases due to the Partial
  Termination transaction.'

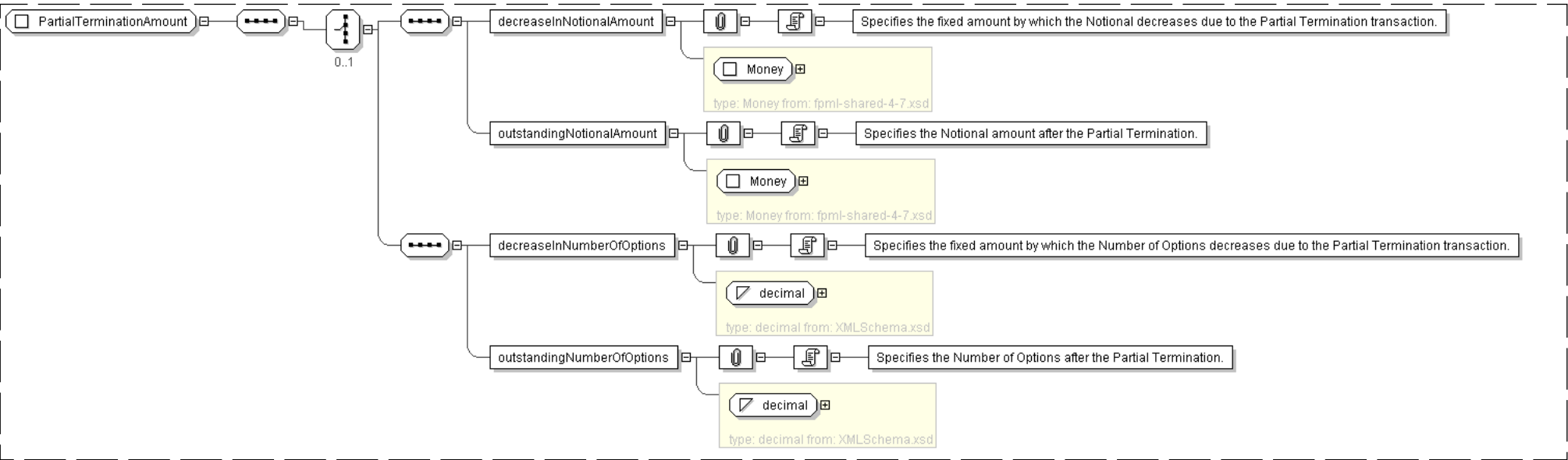
  <outstandingNotionalAmount> Money </outstandingNotionalAmount> [1]
  'Specifies the Notional amount after the Partial Termination.'

  <decreaseInNumberOfOptions> xsd:decimal </decreaseInNumberOfOptions> [1]
  'Specifies the fixed amount by which the Number of Options decreases due to the
  Partial Termination transaction.'

  <outstandingNumberOfOptions> xsd:decimal </outstandingNumberOfOptions> [1]
  'Specifies the Number of Options after the Partial Termination.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartialTerminationAmount">
  <xsd:sequence>
    <xsd:choice minOccurs="0">
      <xsd:sequence>
        <xsd:element name="decreaseInNotionalAmount" type=" Money " />
        <xsd:element name="outstandingNotionalAmount" type=" Money " />
      </xsd:sequence>
      <xsd:sequence>
        <xsd:element name="decreaseInNumberOfOptions" type=" xsd:decimal " />
        <xsd:element name="outstandingNumberOfOptions" type=" xsd:decimal " />
      </xsd:sequence>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: Termination

Super-types:	<a href="#">Event</a> < Termination (by extension)
Sub-types:	None

Name	Termination
Abstract	no
Documentation	An event type that defines the content of a Termination transaction.

XML Instance Representation

```
<...>
  <eventId> EventId </eventId> [0..*]
  ''

  Start Choice [1]
    <trade> Trade </trade> [1]
    'An element that allows the full details of the trade to be used as a mechanism for
    identifying the trade for which the post-trade event pertains'

    <tradeReference> PartyTradeIdentifiers </tradeReference> [1]
    'A container since an individual trade can be referenced by two or more
    different partyTradeIdentifier elements - each allocated by a different party.'

  End Choice
  <terminationTradeDate> xsd:date </terminationTradeDate> [1]
  'The date on which the the parties enter into the Termination transaction.'

  <terminationEffectiveDate> xsd:date </terminationEffectiveDate> [1]
  'The date on which the Termination becomes effective.'

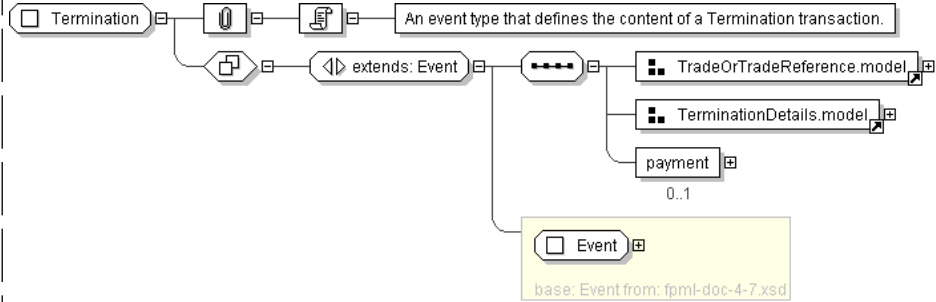
  Start Choice [1]
    <full> Empty </full> [1]
    'The use of the Full element indicates that this is a Full Termination.'

    <partial> PartialTerminationAmount </partial> [1]
    'The use of the Partial element indicates that this is a Partial Termination.'

  End Choice
  <payment> Payment </payment> [0..1]
  'A payment for the right to terminate the trade.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Termination">
```

```
<xsd:complexContent>
  <xsd:extension base=" Event " >
    <xsd:sequence>
      <xsd:group ref=" TradeOrTradeReference.model "/>
      <xsd:group ref=" TerminationDetails.model "/>
      <xsd:element name="payment" type=" Payment " minOccurs="0"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeAmendment

Super-types:	None
Sub-types:	None

Name	TradeAmendment
Abstract	no
Documentation	A type describing the original trade and the amended trade.

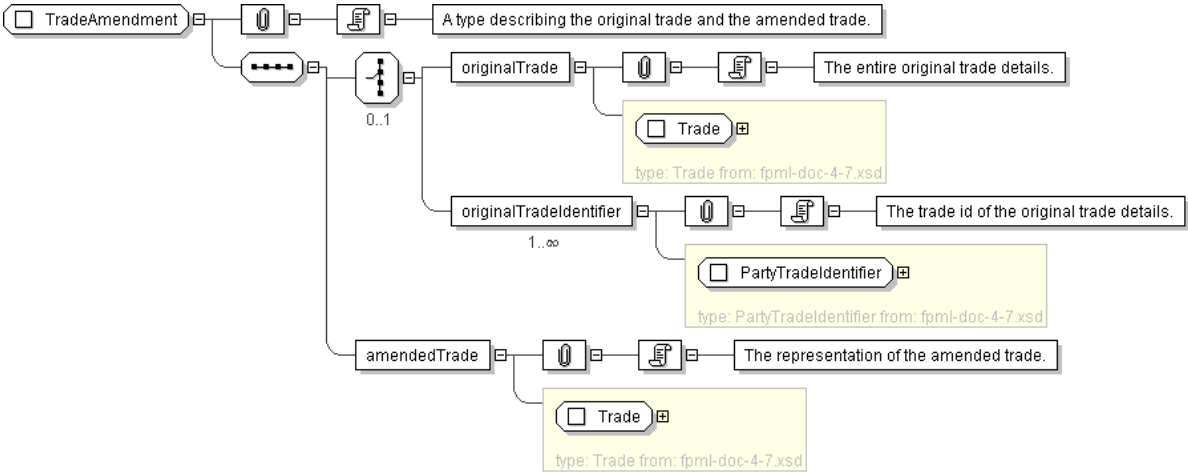
XML Instance Representation

```
<...>
Start Choice [0..1]
<originalTrade> Trade </originalTrade> [1]
  'The entire original trade details.'

<originalTradeIdentifier> PartyTradeIdentifier </originalTradeIdentifier> [1..*]
  'The trade id of the original trade details.'

End Choice
<amendedTrade> Trade </amendedTrade> [1]
  'The representation of the amended trade.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAmendment">
  <xsd:sequence>
    <xsd:choice minOccurs="0">
```

Model Group: **NovationDetails.model**

Name	NovationDetails.model
Used by (from the same schema document)	Complex Type <a href="#">Novation</a>

XML Instance Representation

Start <a href="#">Choice</a> [1]	
Start <a href="#">Choice</a> [1]	
<newTransactionReference> <a href="#">PartyTradeIdentifiers</a> </newTransactionReference> [1]	
'Indicates a reference to the new transaction between the transferee and the remaining party.'	
<newTransaction> <a href="#">Trade</a> </newTransaction> [1]	
'Indicates the new transaction between the transferee and the remaining party.'	
End Choice	
Start <a href="#">Choice</a> [1]	
<oldTransactionReference> <a href="#">PartyTradeIdentifiers</a> </oldTransactionReference> [1]	
'Indicates a reference to the original trade between the transferor and the remaining party.'	
<oldTransaction> <a href="#">Trade</a> </oldTransaction> [1]	
'Indicates the original trade between the transferor and the remaining party.'	
End Choice	
Start <a href="#">Choice</a> [0..1]	
<newTransactionReference> <a href="#">PartyTradeIdentifiers</a> </newTransactionReference> [1]	
'Indicates a reference to the new transaction between the transferee and the remaining party.'	
<newTransaction> <a href="#">Trade</a> </newTransaction> [1]	
'Indicates the new transaction between the transferee and the remaining party.'	
End Choice	
End Choice	
<transferor> <a href="#">PartyReference</a> </transferor> [1]	
'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Transferor (outgoing party) in the novation. The Transferor means a party which transfers by novation to a Transferee all of its rights, liabilities, duties and obligations with respect to a Remaining Party. In a four-way novation the party referenced is Transferor 1 which transfers by novation to Transferee 1 all of its rights, liabilities, duties and obligations with respect to Transferor 2. ISDA 2004 Novation Term: Transferor (three-way novation) or Transferor 1 (four-way novation).'	
<transferee> <a href="#">PartyReference</a> </transferee> [1]	
'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Transferee (incoming party) in the novation. Transferee means a party which accepts by way of novation all rights, liabilities, duties and obligations of a Transferor with respect to a Remaining Party. In a four-way novation the party referenced is Transferee 1 which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 1. ISDA 2004 Novation Term: Transferee (three-way novation) or Transferee 1 (four-way novation).'	
<remainingParty> <a href="#">PartyReference</a> </remainingParty> [1]	
'A pointer style reference to a party identifier defined elsewhere in the document. In a three-way novation the party referenced is the Remaining Party in the novation. Remaining Party means a party which consents to a Transferor\'s transfer by novation and the acceptance thereof by the Transferee of all of the Transferor\'s rights, liabilities, duties and obligations with respect to such Remaining Party under and with respect of	

the Novated Amount of a transaction. In a four-way novation the party referenced is Transferor 2 per the ISDA definition and acts in the role of a Transferor. Transferor 2 transfers by novation to Transferee 2 all of its rights, liabilities, duties and obligations with respect to Transferor 1. ISDA 2004 Novation Term: Remaining Party (three-way novation) or Transferor 2 (four-way novation).'

<otherRemainingParty> [PartyReference](#) </otherRemainingParty> [0..1]

'A pointer style reference to a party identifier defined elsewhere in the document. This element is not applicable in a three-way novation and should be omitted. In a four-way novation the party referenced is Transferee 2. Transferee 2 means a party which accepts by way of novation the rights, liabilities, duties and obligations of Transferor 2. ISDA 2004 Novation Term: Transferee 2 (four-way novation).'

<novationDate> [xsd:date](#) </novationDate> [1]

'Specifies the date that one party's legal obligations with regard to a trade are transferred to another party. It corresponds to the Novation Date section of the 2004 ISDA Novation Definitions, section 1.16.'

<novationTradeDate> [xsd:date](#) </novationTradeDate> [0..1]

'Specifies the date the parties agree to assign or novate a trade. If this element is not specified, the novationTradeDate will be deemed to be the novationDate. It corresponds to the Novation Trade Date section of the 2004 ISDA Novation Definitions, section 1.17.'

Start [Choice](#) [0..1]

<novatedAmount> [Money](#) </novatedAmount> [1]

'The amount which represents the portion of the Old Transaction being novated.'

<novatedNumberOfOptions> [xsd:decimal](#) </novatedNumberOfOptions> [1]

'The number of options which represent the portion of the Old Transaction being novated.'

End [Choice](#)

<remainingTrade> [Trade](#) </remainingTrade> [0..1]

'This element contains a description of the remaining portion of a partially novated trade.'

<fullFirstCalculationPeriod> [xsd:boolean](#) </fullFirstCalculationPeriod> [0..1]

'This element corresponds to the applicability of the Full First Calculation Period as defined in the 2004 ISDA Novation Definitions, section 1.20.'

<firstPeriodStartDate> [FirstPeriodStartDate](#) </firstPeriodStartDate> [0..2]

'Element that is used to be able to make sense of the "new transaction" without requiring reference back to the "old transaction". In the case of interest rate products there are potentially 2 "first period start dates" to reference - one with respect to each party to the new transaction. For Credit Default Swaps there is just the one with respect to the party that is the fixed rate payer.'

<nonReliance> [Empty](#) </nonReliance> [0..1]

'This element corresponds to the non-Reliance section in the 2004 ISDA Novation Definitions, section 2.1 (c) (i). The element appears in the instance document when non-Reliance is applicable.'

<creditDerivativesNotices> [CreditDerivativesNotices](#) </creditDerivativesNotices> [0..1]

'This element should be specified if one or more of either a Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party. The type of notice or notices that have been delivered should be indicated by setting the relevant boolean element value(s) to true. The absence of the element means that no Credit Event Notice, Notice of Publicly Available Information, Notice of Physical Settlement or Notice of Intended Physical Settlement, as applicable, has been delivered by or to the Transferor or the Remaining Party.'

<contractualDefinitions> [ContractualDefinitions](#) </contractualDefinitions> [0..\*]

'The definitions (such as those published by ISDA) that will define the terms of the novation transaction.'

Start [Choice](#) [1]

<contractualSupplement> [ContractualSupplement](#) </contractualSupplement> [0..\*]

'DEPRECATED - This element will be removed in the next major version of FpML. The element contractualTermsSupplement should be used instead. Definition: A contractual supplement (such as those published by ISDA) that will apply to the trade.'

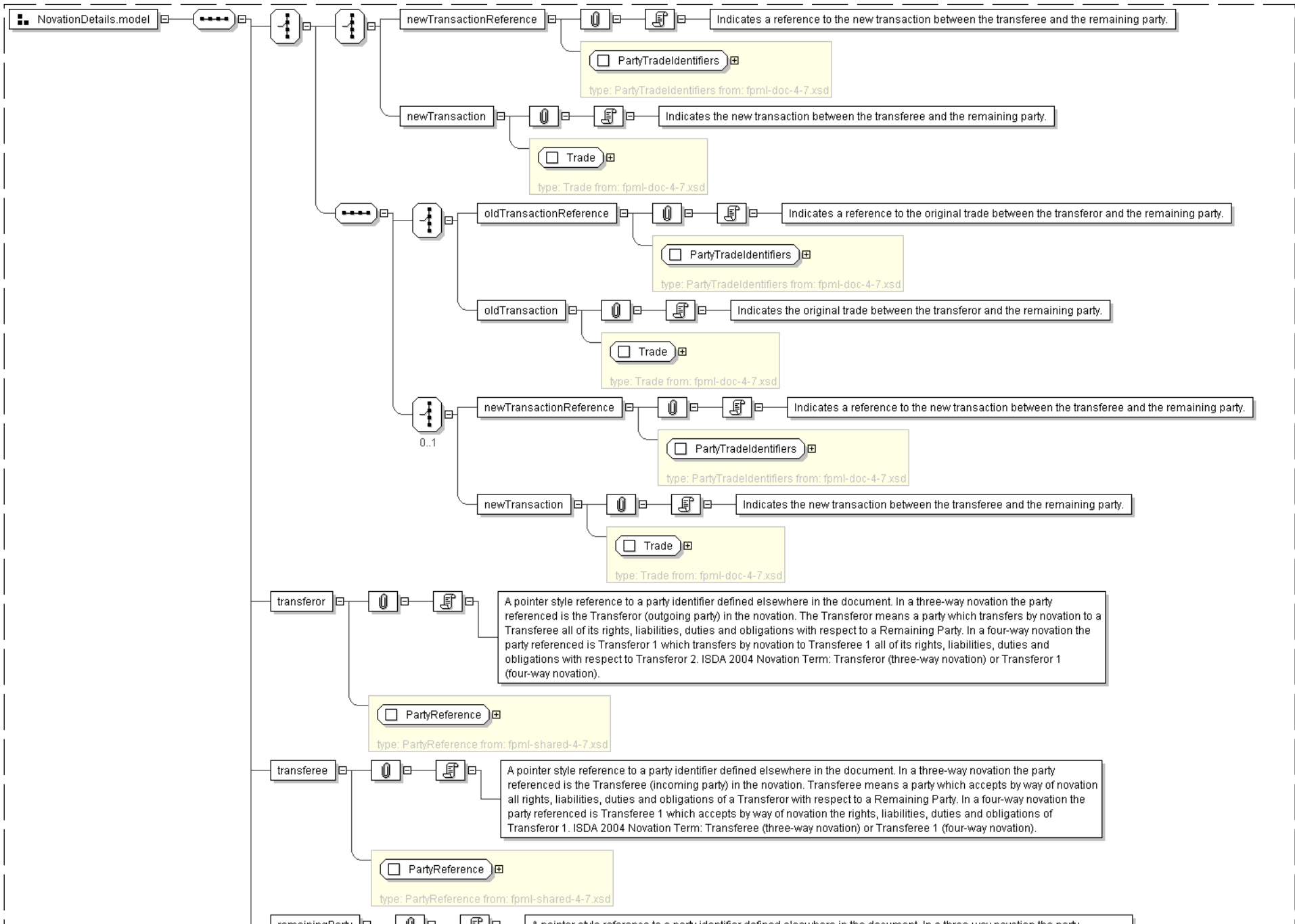


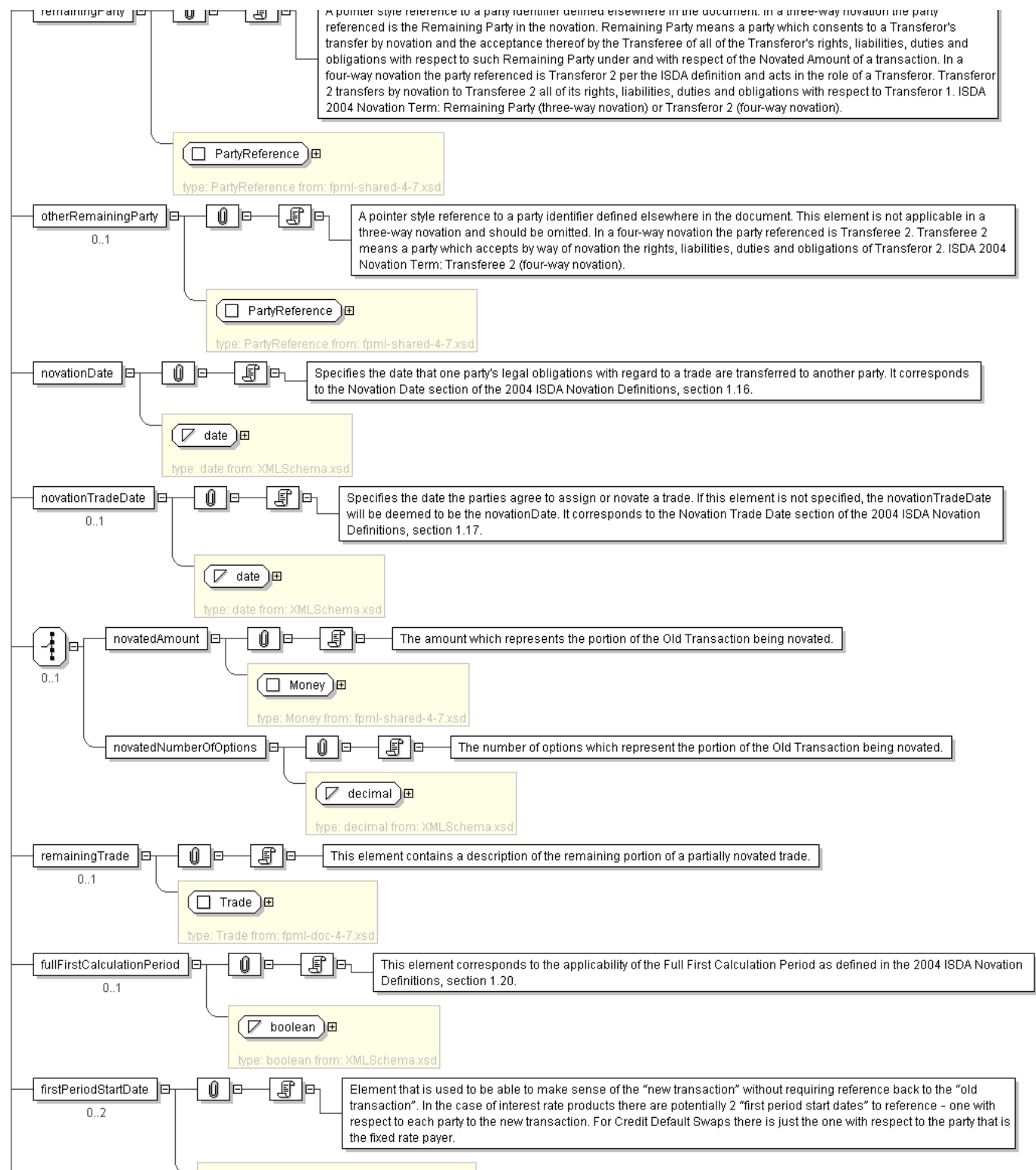
```
<contractualTermsSupplement> ContractualTermsSupplement </contractualTermsSupplement> [0..*]
```

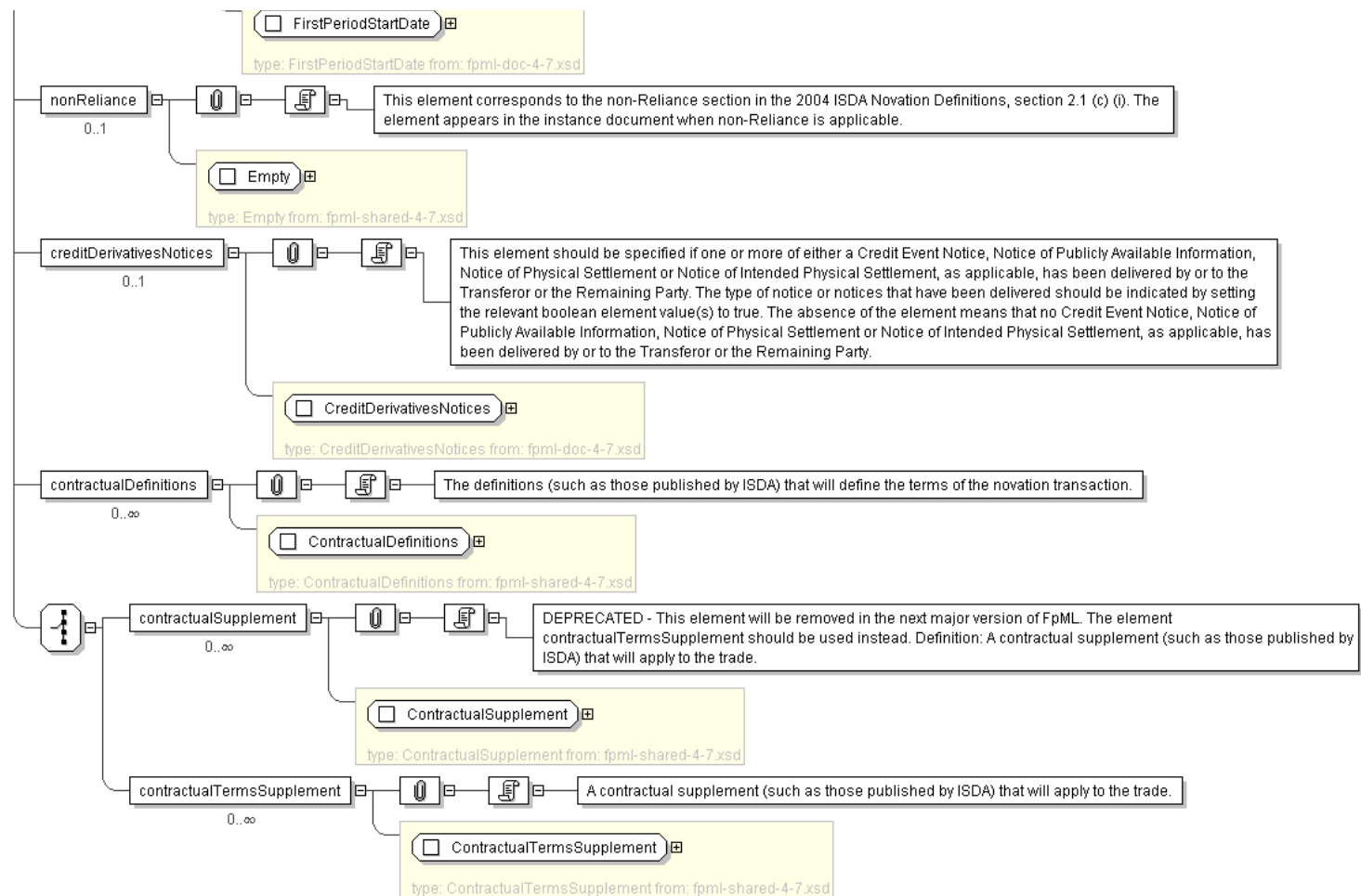
'A contractual supplement (such as those published by ISDA) that will apply to the trade.'

End Choice

## Diagram







## Schema Component Representation

```

<xsd:group name="NovationDetails.model">
  <xsd:sequence>
    <xsd:choice>
      <xsd:choice>
        <xsd:element name="newTransactionReference" type="PartyTradeIdentifiers" />
        <xsd:element name="newTransaction" type="Trade" />
      </xsd:choice>
    </xsd:choice>
    <xsd:sequence>
      <xsd:choice>
        <xsd:element name="oldTransactionReference" type="PartyTradeIdentifiers" />
        <xsd:element name="oldTransaction" type="Trade" />
      </xsd:choice>
      <xsd:choice minOccurs="0">
        <xsd:element name="newTransactionReference" type="PartyTradeIdentifiers" />
        <xsd:element name="newTransaction" type="Trade" />
      </xsd:choice>
    </xsd:sequence>
  </xsd:choice>
  <xsd:element name="transferor" type="PartyReference" />
  <xsd:element name="transferee" type="PartyReference" />
  <xsd:element name="remainingParty" type="PartyReference" />
  <xsd:element name="otherRemainingParty" type="PartyReference" minOccurs="0"/>
  <xsd:element name="novationDate" type="xsd:date" />
  <xsd:element name="novationTradeDate" type="xsd:date" minOccurs="0"/>

```

```
<xsd:choice minOccurs="0">
  <xsd:element name="novatedAmount" type=" Money " />
  <xsd:element name="novatedNumberOfOptions" type=" xsd:decimal " />
</xsd:choice>
<xsd:element name="remainingTrade" type=" Trade " minOccurs="0"/>
<xsd:element name="fullFirstCalculationPeriod" type=" xsd:boolean " minOccurs="0"/>
<xsd:element name="firstPeriodStartDate" type=" FirstPeriodStartDate "
minOccurs="0" maxOccurs="2"/>
<xsd:element name="nonReliance" type=" Empty " minOccurs="0"/>
<xsd:element name="creditDerivativesNotices" type=" CreditDerivativesNotices " minOccurs="0"/>
<xsd:element name="contractualDefinitions" type=" ContractualDefinitions "
minOccurs="0" maxOccurs="unbounded"/>
<xsd:choice>
  <xsd:element name="contractualSupplement" type=" ContractualSupplement "
minOccurs="0" maxOccurs="unbounded" deprecated="true"
  deprecatedReason="The contractualTermsSupplement includes the publication date, which was
not present in the contractualSupplement"/>
  <xsd:element name="contractualTermsSupplement" type=" ContractualTermsSupplement
" minOccurs="0" maxOccurs="unbounded"/>
</xsd:choice>
</xsd:sequence>
</xsd:group>
```

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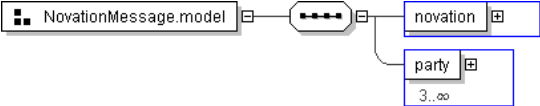
Model Group: **NovationMessage.model**

Name	NovationMessage.model
Used by (from the same schema document)	Complex Type <a href="#">NovationNotificationMessage</a> , Complex Type <a href="#">NovationRequestMessage</a> , Complex Type <a href="#">NovationResponseMessage</a>

XML Instance Representation

```
<novation> Novation </novation> [1]
<party> Party </party> [3..*]
```

Diagram



Schema Component Representation

```
<xsd:group name="NovationMessage.model">
  <xsd:sequence>
    <xsd:element name="novation" type=" Novation " />
    <xsd:element name="party" type=" Party " minOccurs="3" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **TerminationDetails.model**

Name	TerminationDetails.model
Used by (from the same schema document)	Complex Type <a href="#">Termination</a>

XML Instance Representation

```
<terminationTradeDate> xsd:date </terminationTradeDate> [1]
'The date on which the the parties enter into the Termination transaction.'
```

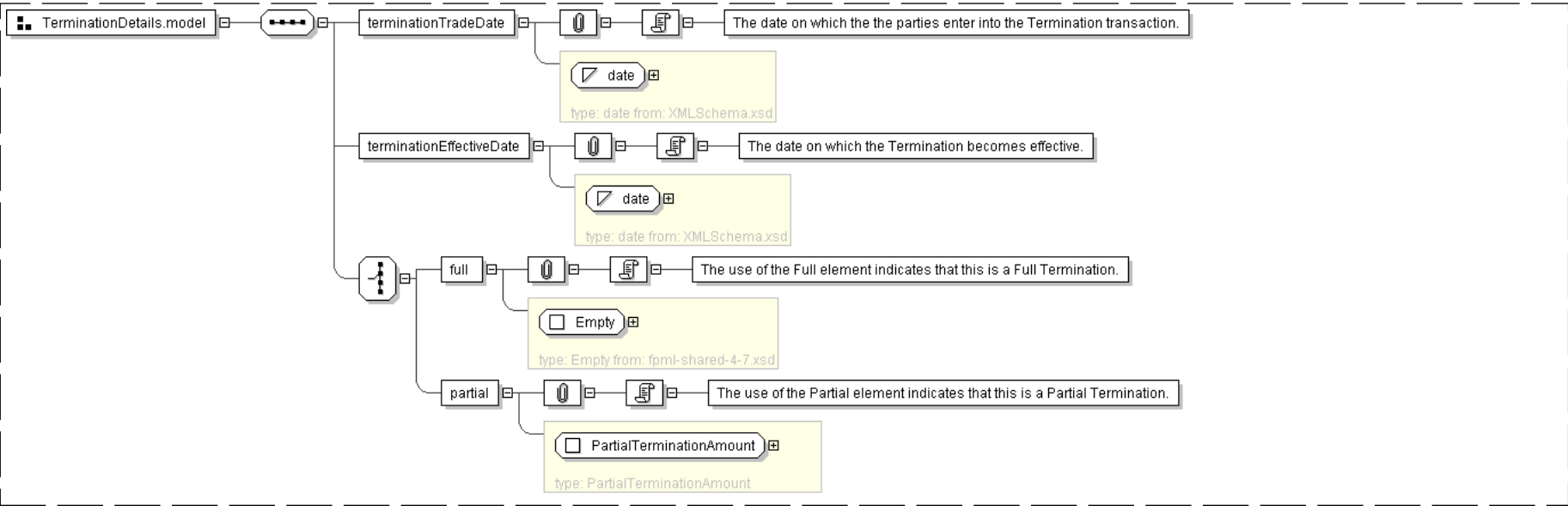
```
<terminationEffectiveDate> xsd:date </terminationEffectiveDate> [1]
'The date on which the Termination becomes effective.'
```

```
Start Choice [1]
  <full> Empty </full> [1]
  'The use of the Full element indicates that this is a Full Termination.'

  <partial> PartialTerminationAmount </partial> [1]
  'The use of the Partial element indicates that this is a Partial Termination.'

End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="TerminationDetails.model">
  <xsd:sequence>
    <xsd:element name="terminationTradeDate" type="xsd:date" />
    <xsd:element name="terminationEffectiveDate" type="xsd:date" />
    <xsd:choice>
      <xsd:element name="full" type="Empty" />
      <xsd:element name="partial" type="PartialTerminationAmount" />
    </xsd:choice>
  </xsd:sequence>
</xsd:group>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

- Super-types:
- [Address](#) < AusAddress (by extension)
- Sub-types:
- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
------	------------

Abstract	no
----------	----

The table above displays the properties of this schema component.

XML Instance Representation

<pre>&lt;... country="Australia" &gt; &lt;unitNo&gt; string &lt;/unitNo&gt; [0..1] &lt;houseNo&gt; string &lt;/houseNo&gt; [1] &lt;street&gt; string &lt;/street&gt; [1] Start Choice [1] &lt;city&gt; string &lt;/city&gt; [1] &lt;town&gt; string &lt;/town&gt; [1] End Choice &lt;state&gt; AusStates &lt;/state&gt; [1] &lt;postcode&gt; string &lt;&lt;pattern = [1-9][0-9]{3}&gt;&gt; &lt;/postcode&gt; [1] &lt;/...&gt;</pre>
--

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<pre>&lt;complexType name="AusAddress"&gt; &lt;complexContent&gt; &lt;extension base=" Address " &gt; &lt;sequence&gt; &lt;element name="state" type=" AusStates " /&gt; &lt;element name="postcode"&gt; &lt;simpleType&gt; &lt;restriction base=" string " &lt;pattern value="[1-9][0-9]{3}" /&gt; &lt;/restriction&gt; &lt;/simpleType&gt; &lt;/element&gt; &lt;/sequence&gt; &lt;attribute name="country" type=" string " fixed="Australia"/&gt; &lt;/extension&gt; &lt;/complexContent&gt; &lt;/complexType&gt;</pre>
---

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** Only *one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation

methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](http://www.w3.org/TR/xmlschema-1/#key-Constraint) or [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#uniqueness-Constraint). See: <http://www.w3.org/TR/xmlschema-1/#key-Constraint>.

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#identity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#identity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-posttrade-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
```



```
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-posttrade-4-7.xsd"/>
  ...
</xsd:schema>
```

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## Global Definitions

### Complex Type: **AmendmentConfirmed**

Super-types:	<a href="#">NotificationMessage</a> < <b>AmendmentConfirmed</b> (by extension)
Sub-types:	None

Name	AmendmentConfirmed
Abstract	no
Documentation	A message generated when an Amendment is determined to be confirmed.

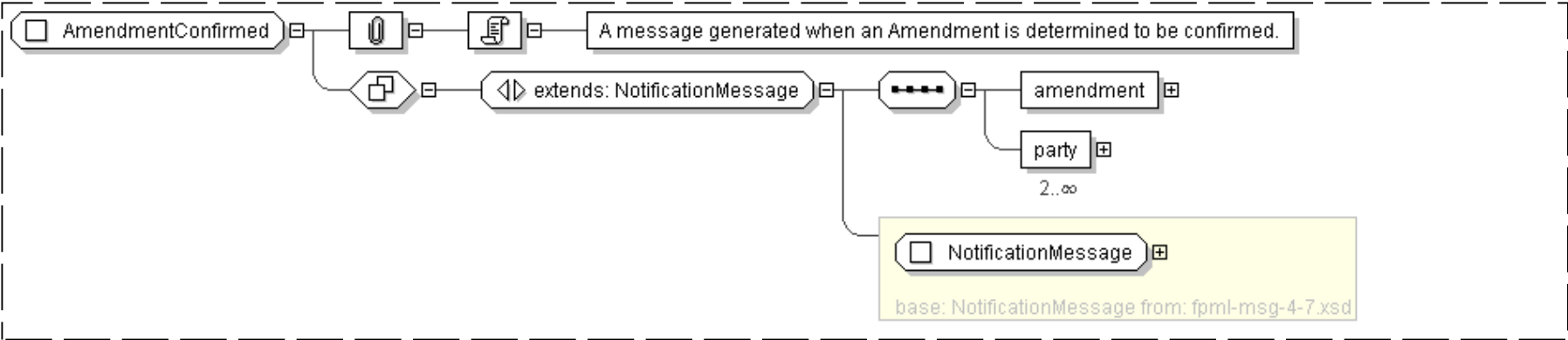
#### XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<amendment> Amendment </amendment> [1]
<party> Party </party> [2..*]
```

'One party element for each of the principal parties and any other party that is referenced.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AmendmentConfirmed">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="amendment" type=" Amendment " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: IncreaseConfirmed

Super-types:	<a href="#">NotificationMessage</a> < <b>IncreaseConfirmed</b> (by extension)
Sub-types:	None

Name	IncreaseConfirmed
Abstract	no
Documentation	A message generated when an Increase is determined to be confirmed.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
```

'Indicate which version of the FpML Schema an FpML message adheres to.'

"

expectedBuild=" xsd:positiveInteger [0..1]

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

actualBuild="**5** [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> NotificationMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

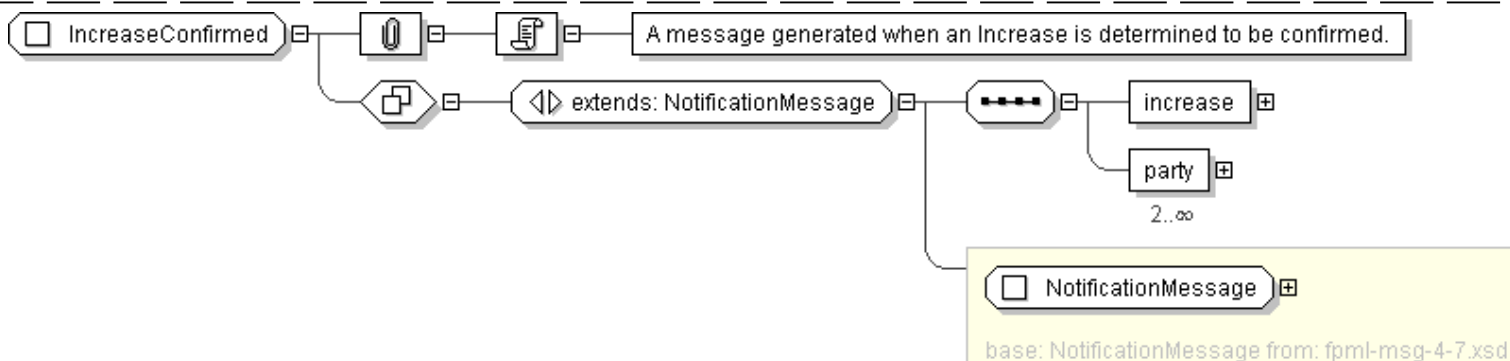
<increase> Increase </increase> [1]

<party> Party </party> [2..\*]

'One party element for each of the principal parties and any other party that is referenced.'

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="IncreaseConfirmed">
  <xsd:complexContent>
    <xsd:extension base="NotificationMessage">
      <xsd:sequence>
        <xsd:element name="increase" type="Increase"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **NovationAlleged**

Super-types:	<a href="#">NovationNotificationMessage</a> < <b>NovationAlleged</b> (by extension)
Sub-types:	None

Name	NovationAlleged
Abstract	no

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationAlleged">
  <xsd:complexContent>
    <xsd:extension base=" NovationNotificationMessage " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NovationConfirmed**

Super-types:	<a href="#">NovationNotificationMessage</a> < <b>NovationConfirmed</b> (by extension)
Sub-types:	None

Name	NovationConfirmed
Abstract	no

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationConfirmed">
  <xsd:complexContent>
    <xsd:extension base=" NovationNotificationMessage " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RequestAmendmentConfirmation

Super-types:	<a href="#">RequestMessage</a> < <b>RequestAmendmentConfirmation</b> (by extension)
Sub-types:	None

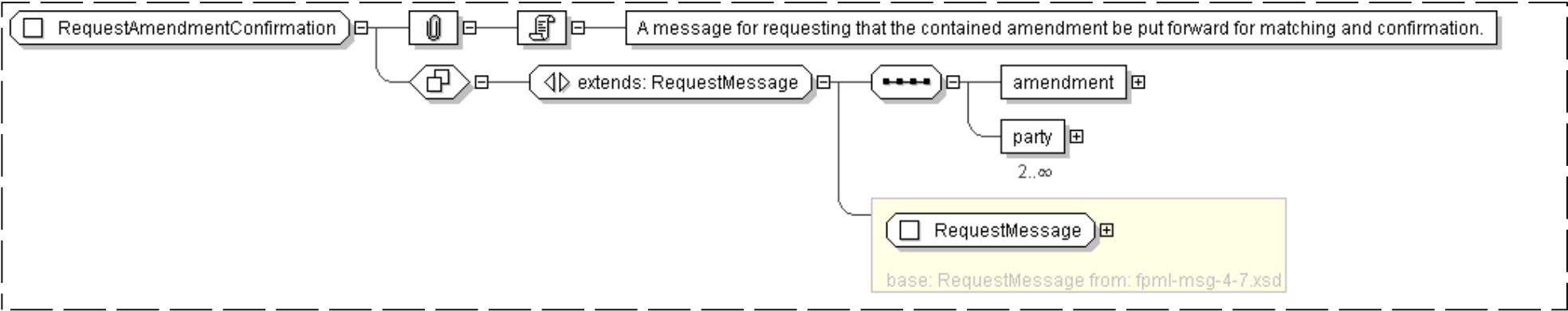
Name	RequestAmendmentConfirmation
Abstract	no
Documentation	A message for requesting that the contained amendment be put forward for matching and confirmation.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]  
<amendment> Amendment </amendment> [1]  
<party> Party </party> [2..*]  
  
'One party element for each of the principal parties and any other party that is referenced.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestAmendmentConfirmation">  
  <xsd:complexContent>  
    <xsd:extension base=" RequestMessage ">  
      <xsd:sequence>  
        <xsd:element name="amendment" type=" Amendment " />  
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: RequestIncreaseConfirmation

Super-types:	<a href="#">RequestMessage</a> < RequestIncreaseConfirmation (by extension)
Sub-types:	None

Name	RequestIncreaseConfirmation
Abstract	no
Documentation	A message for requesting that the contained increase be put forward for matching and confirmation.

XML Instance Representation

```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

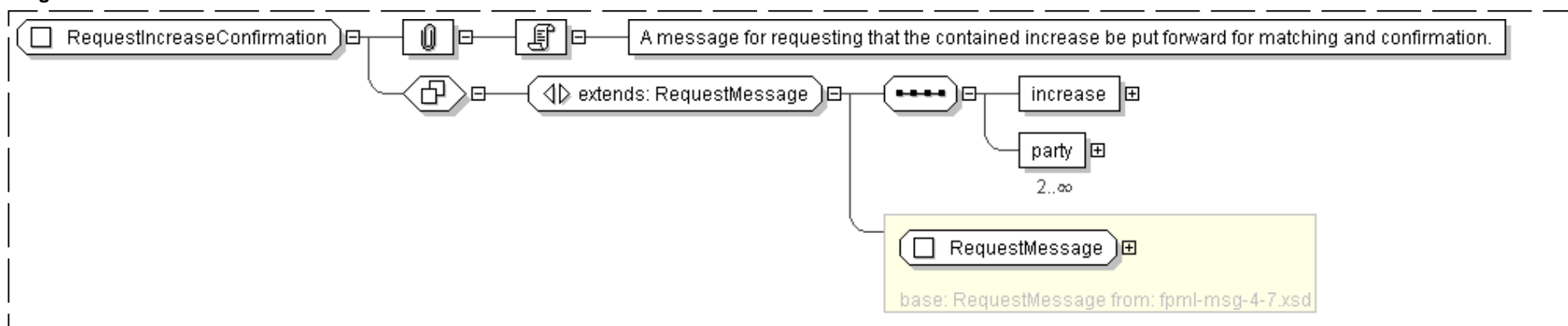
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <increase> Increase </increase> [1]
  <party> Party </party> [2..*]
  'One party element for each of the principal parties and any other party that is referenced.'
</...>

```

### Diagram



### Schema Component Representation

```

<xsd:complexType name="RequestIncreaseConfirmation">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage ">

```



```
<xsd:sequence>
  <xsd:element name="increase" type=" Increase "/>
  <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **RequestNovationConfirmation**

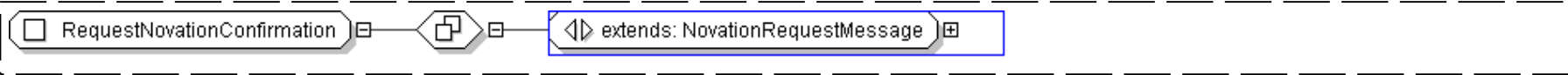
Super-types:	<a href="#">NovationRequestMessage</a> < <b>RequestNovationConfirmation</b> (by extension)
Sub-types:	None

Name	RequestNovationConfirmation
Abstract	no

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestNovationConfirmation">
  <xsd:complexContent>
    <xsd:extension base=" NovationRequestMessage " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RequestTerminationConfirmation

Super-types:	<a href="#">RequestMessage</a> < <b>RequestTerminationConfirmation</b> (by extension)
Sub-types:	None

Name	RequestTerminationConfirmation
Abstract	no
Documentation	A message for requesting that the contained termination be put forward for matching and confirmation.

XML Instance Representation

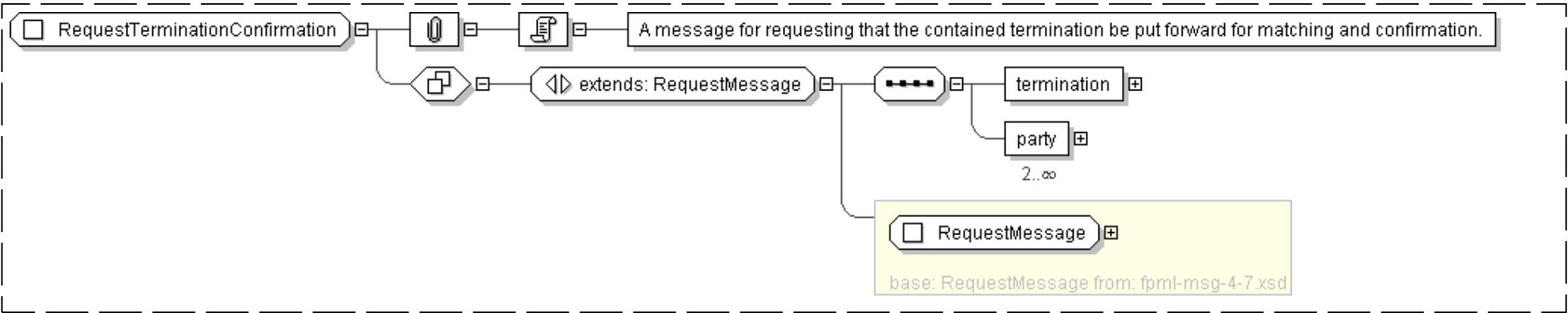
```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]  
<termination> Termination </termination> [1]  
<party> Party </party> [2..*]
```

'One party element for each of the principal parties and any other party that is referenced.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestTerminationConfirmation">  
  <xsd:complexContent>  
    <xsd:extension base=" RequestMessage ">  
      <xsd:sequence>  
        <xsd:element name="termination" type=" Termination "/>  
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: TerminationConfirmed

Super-types:	<a href="#">NotificationMessage</a> < <b>TerminationConfirmed</b> (by extension)
Sub-types:	None

Name	TerminationConfirmed
Abstract	no
Documentation	A message generated when a Termination is determined to be confirmed.

XML Instance Representation

```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

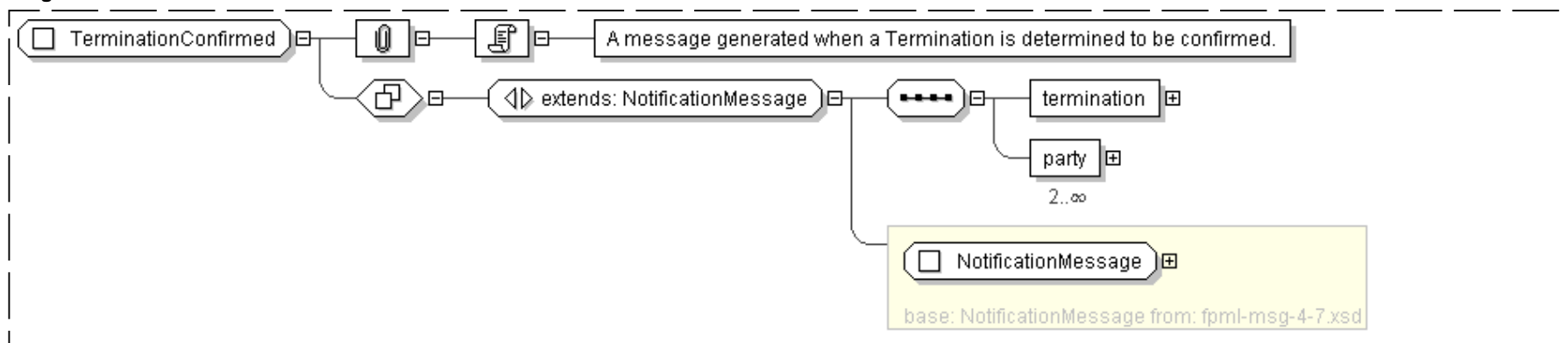
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <termination> Termination </termination> [1]
  <party> Party </party> [2..*]
  'One party element for each of the principal parties and any other party that is referenced.'
</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TerminationConfirmed">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">

```

```

    <xsd:sequence>
      <xsd:element name="termination" type=" Termination " />
      <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

[top](#)

Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```

<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>

```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.

- If the element/attribute's type is in the schema, a link is provided to it.
- For local simple type definitions, the constraints are displayed in angle brackets, e.g. `<<pattern = [1-9][0-9]{3}>>`.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: <http://www.w3.org/TR/>

[xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
<b>Version</b>	\$Revision: 6304 \$
<b>Element and Attribute Namespaces</b>	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
<b>Schema Composition</b>	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-posttrade-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

## Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML"
```



```

targetNamespace="http://www.fpml.org/2009/FpML-4-7"
version="$Revision: 6304 $" attributeFormDefault="unqualified"
elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-posttrade-4-7.xsd"/>
  ...
</xsd:schema>

```

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## Global Definitions

### Complex Type: **NovateTrade**

**Super-types:** [NovationRequestMessage](#) < **NovateTrade** (by extension)

**Sub-types:** None

<b>Name</b>	NovateTrade
<b>Abstract</b>	no

### XML Instance Representation

```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-
3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]

```

*'Indicate which version of the FpML Schema an FpML message adheres to.'*

"

```
expectedBuild=" xsd:positiveInteger [0..1]
```

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

"

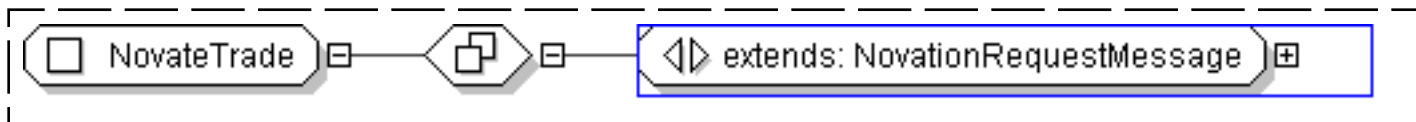
```
actualBuild="5 [0..1]
```

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have*

*been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

```
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="NovateTrade">
  <xsd:complexContent>
    <xsd:extension base=" NovationRequestMessage " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

## Complex Type: TradeNovated

**Super-types:** [NovationNotificationMessage](#) < **TradeNovated** (by extension)

**Sub-types:** None

<b>Name</b>	TradeNovated
<b>Abstract</b>	no

## XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

```

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in
an FpML instance to specify which build number of the schema was
used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This
attribute is not included in an instance document. Instead, it
is supplied by the XML parser when the document is validated
against the FpML schema and indicates the build number of the
schema file. Every time FpML publishes a change to the schema,
validation rules, or examples within a version (e.g., version
4.2) the actual build number is incremented. If no changes have
been made between releases within a version (i.e. from Trial
Recommendation to Recommendation) the actual build number stays
the same.'
">
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeNovated">
  <xsd:complexContent>
    <xsd:extension base=" NovationNotificationMessage "/>
  </xsd:complexContent>
</xsd:complexType>

```

[top](#)

## Legend

## Complex Type:

Schema Component Type

## AusAddress

Schema Component Name

**Super-types:**      [Address](#) < AusAddress (by extension)**Sub-types:**      • [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

<b>Name</b>	AusAddress
<b>Abstract</b>	no

The table above displays the properties of this schema component.

### XML Instance Representation

```

<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>

```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

### Schema Component Representation

```
<complexType name="AusAddress">
```

```

<complexContent>
  <extension base=" Address ">
    <sequence>
      <element name="state" type=" AusStates "/>
      <element name="postcode">
        <simpleType>
          <restriction base=" string ">
            <pattern value="[1-9][0-9]{3}" />
          </restriction>
        </simpleType>
      </element>
    </sequence>
    <attribute name="country" type=" string " fixed="Australia"/>
  </extension>
</complexContent>
</complexType>

```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified

scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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Generated by [<Oxygen/> XML Editor](#) using a modified version of [xs3p](#) that adds schema diagrams and chunking support.

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-posttrade-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmlsig#">http://www.w3.org/2000/09/xmlsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
```



```
<xsd:include schemaLocation="fpml-posttrade-4-7.xsd" />
...
</xsd:schema>
```

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## Global Definitions

### Complex Type: **NovationConsentGranted**

Super-types:	<a href="#">NovationResponseMessage</a> < <b>NovationConsentGranted</b> (by extension)
Sub-types:	None
Name	NovationConsentGranted
Abstract	no
Documentation	Response message that should be sent by the receiving parties if they agree with the novation. The transferee or transferor party may include the details of a payment representing the market value of the transaction.

#### XML Instance Representation

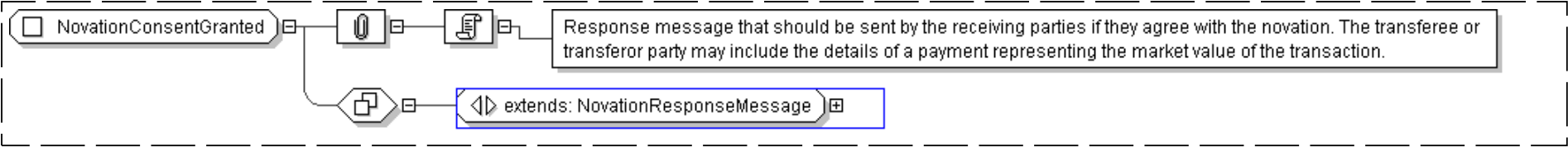
```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'

">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
Start Sequence [0..1]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
End Sequence
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationConsentGranted">
  <xsd:complexContent>
    <xsd:extension base="NovationResponseMessage" />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NovationConsentRefused**

Super-types:	<a href="#">NovationResponseMessage</a> < <b>NovationConsentRefused</b> (by extension)
Sub-types:	None

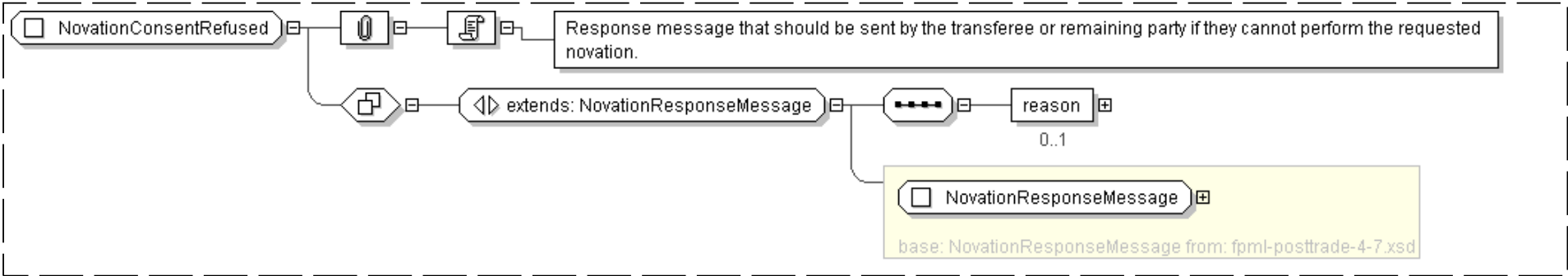
Name	NovationConsentRefused
Abstract	no
Documentation	Response message that should be sent by the transferee or remaining party if they cannot perform the requested novation.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
```

```
<header> ResponseMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
Start Sequence [0..1]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
End Sequence
<reason> Reason </reason> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationConsentRefused">
  <xsd:complexContent>
    <xsd:extension base=" NovationResponseMessage ">
      <xsd:sequence>
        <xsd:element name="reason" type=" Reason " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NovationConsentRequest**

Super-types:	<a href="#">NovationRequestMessage</a> < <b>NovationConsentRequest</b> (by extension)
Sub-types:	None

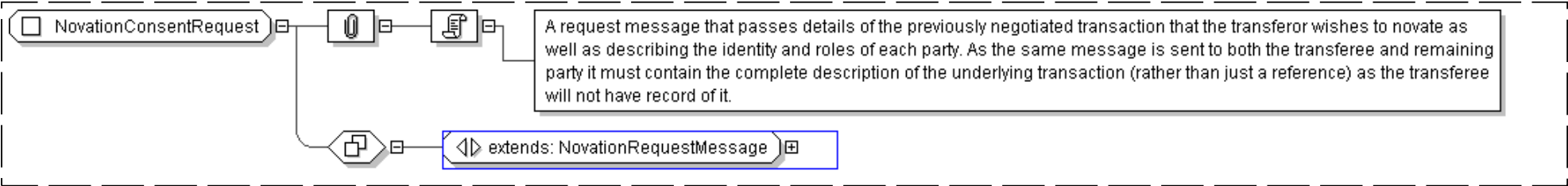
Name	NovationConsentRequest
Abstract	no
Documentation	A request message that passes details of the previously negotiated transaction that the transferor wishes to novate as well as describing the identity and roles of each party. As the same message is sent to both the transferee and remaining party it must contain the complete description of the underlying transaction (rather than just a reference) as the transferee will not have record of it.

XML Instance Representation

```
<...>
```

```
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <novation> Novation </novation> [1]
  <party> Party </party> [3..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NovationConsentRequest">
  <xsd:complexContent>
    <xsd:extension base=" NovationRequestMessage "/>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **TradeAmendmentRequest**

Super-types:

[RequestMessage](#) < **TradeAmendmentRequest** (by extension)

Sub-types:

None

Name	TradeAmendmentRequest
Abstract	no
Documentation	A request message for requesting an Amendment.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

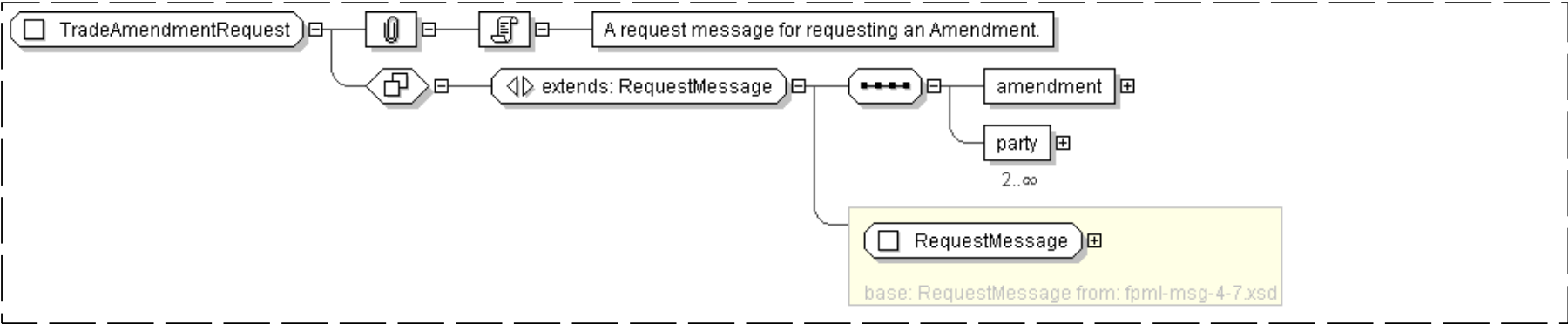
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'

">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <amendment> Amendment </amendment> [1]
  <party> Party </party> [2..*]
  'One party element for each of the principal parties and any other party that is referenced.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAmendmentRequest">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage "
      <xsd:sequence>
        <xsd:element name="amendment" type=" Amendment "/>
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeAmendmentResponse

Super-types:	<a href="#">ResponseMessage</a> < TradeAmendmentResponse (by extension)
Sub-types:	None

Name	TradeAmendmentResponse
Abstract	no
Documentation	A response to the request for an Amendment.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

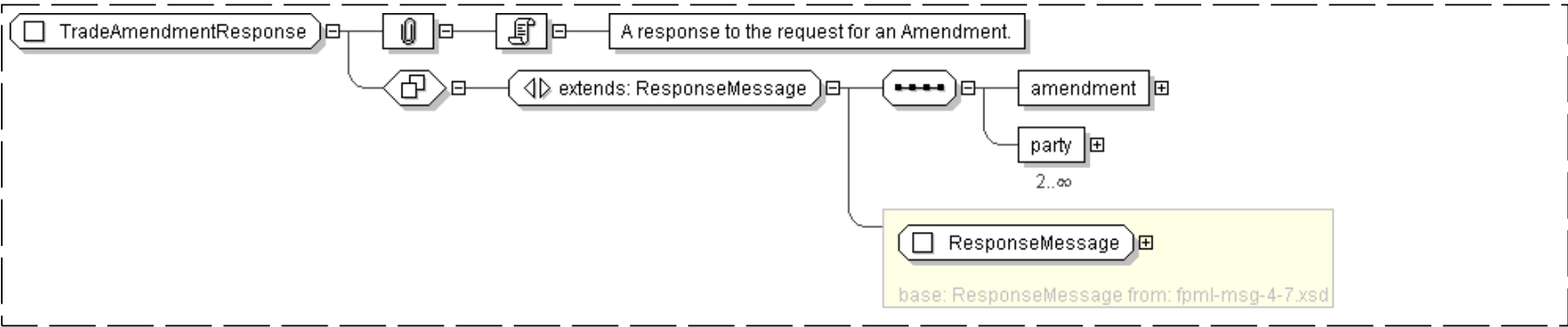
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
```

```
<amendment> Amendment </amendment> [1]
<party> Party </party> [2..*]
'One party element for each of the principal parties and any other party that is referenced.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAmendmentResponse">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:element name="amendment" type=" Amendment "/>
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeIncreaseRequest

Super-types:	<a href="#">RequestMessage</a> < <b>TradeIncreaseRequest</b> (by extension)
Sub-types:	None

Name	TradeIncreaseRequest
Abstract	no
Documentation	A request message for requesting an Increase.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
```

'Indicate which version of the FpML Schema an FpML message adheres to.'

"

expectedBuild=" xsd:positiveInteger [0..1]

'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

"

actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> RequestMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

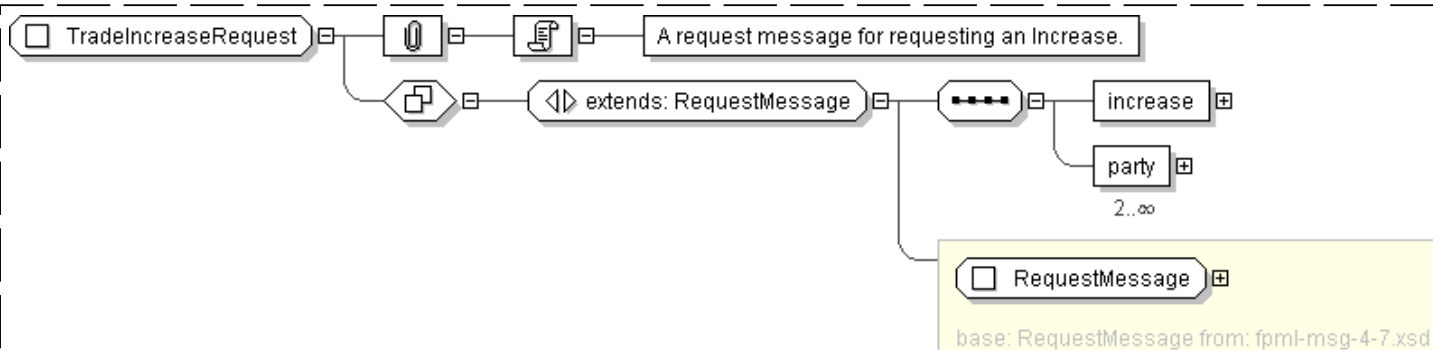
<increase> Increase </increase> [1]

<party> Party </party> [2..\*]

'One party element for each of the principal parties and any other party that is referenced.'

</...>

## Diagram



## Schema Component Representation

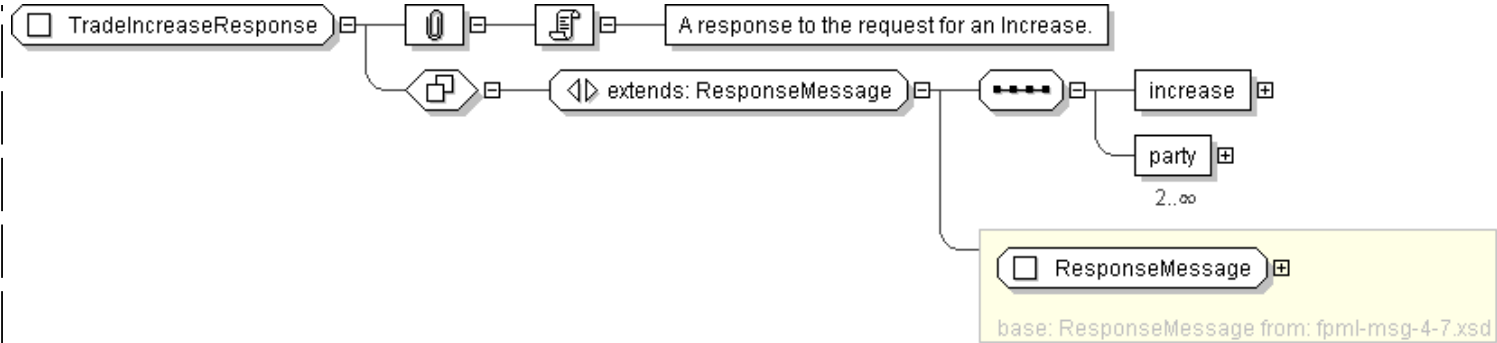
```

<xsd:complexType name="TradeIncreaseRequest">
  <xsd:complexContent>
    <xsd:extension base="RequestMessage">
      <xsd:sequence>
        <xsd:element name="increase" type="Increase"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```







Schema Component Representation

```
<xsd:complexType name="TradeIncreaseResponse">
  <xsd:complexContent>
    <xsd:extension base="ResponseMessage">
      <xsd:sequence>
        <xsd:element name="increase" type="Increase"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeTerminationRequest

Super-types:	<a href="#">RequestMessage</a> < <b>TradeTerminationRequest</b> (by extension)
Sub-types:	None

Name	TradeTerminationRequest
Abstract	no
Documentation	A request message for requesting a Termination.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'
  "
  ...
>
```

actualBuild="5 [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

```
<header> RequestMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<termination> Termination </termination> [1]
<party> Party </party> [2..*]
'One party element for each of the principal parties and any other party that is referenced.'
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="TradeTerminationRequest">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage ">
      <xsd:sequence>
        <xsd:element name="termination" type=" Termination " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

## Complex Type: TradeTerminationResponse

**Super-types:** [ResponseMessage](#) < **TradeTerminationResponse** (by extension)

**Sub-types:** None

<b>Name</b>	TradeTerminationResponse
<b>Abstract</b>	no
<b>Documentation</b>	A response to the request for Termination.

### XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

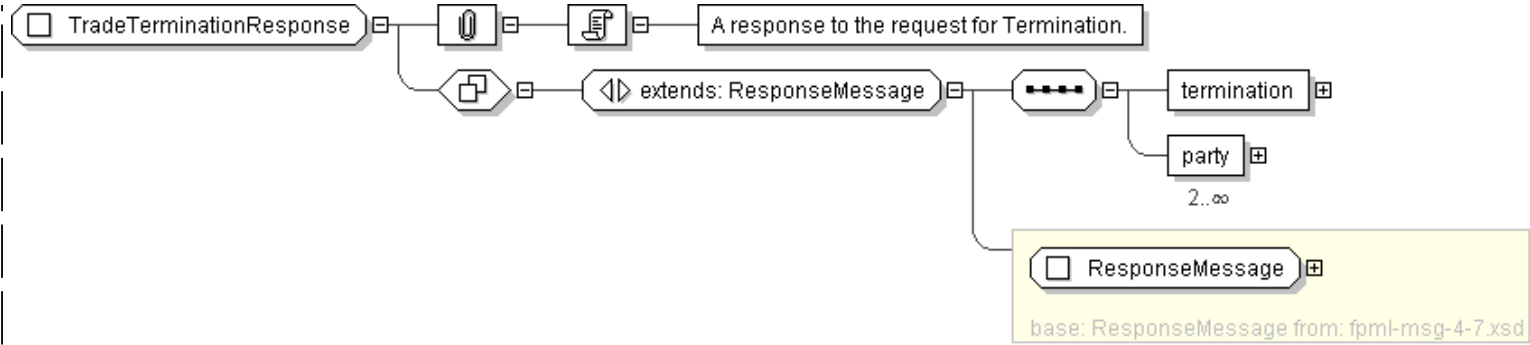
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'

">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <termination> Termination </termination> [1]
  <party> Party </party> [2..*]
  'One party element for each of the principal parties and any other party that is referenced.'

</...>
```

### Diagram



Schema Component Representation

```
<xsd:complexType name="TradeTerminationResponse">
  <xsd:complexContent>
    <xsd:extension base="ResponseMessage">
      <xsd:sequence>
        <xsd:element name="termination" type="Termination"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:

[Address](#) < AusAddress (by extension)

Sub-types:

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
```

```
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** Only *one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: <http://www.w3.org>.

[org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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Generated by [<oXygen/> XML Editor](#) using a modified version of [xs3p](#) that adds schema diagrams and chunking support.



# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
```

```
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  ...
</xsd:schema>
```

[top](#)

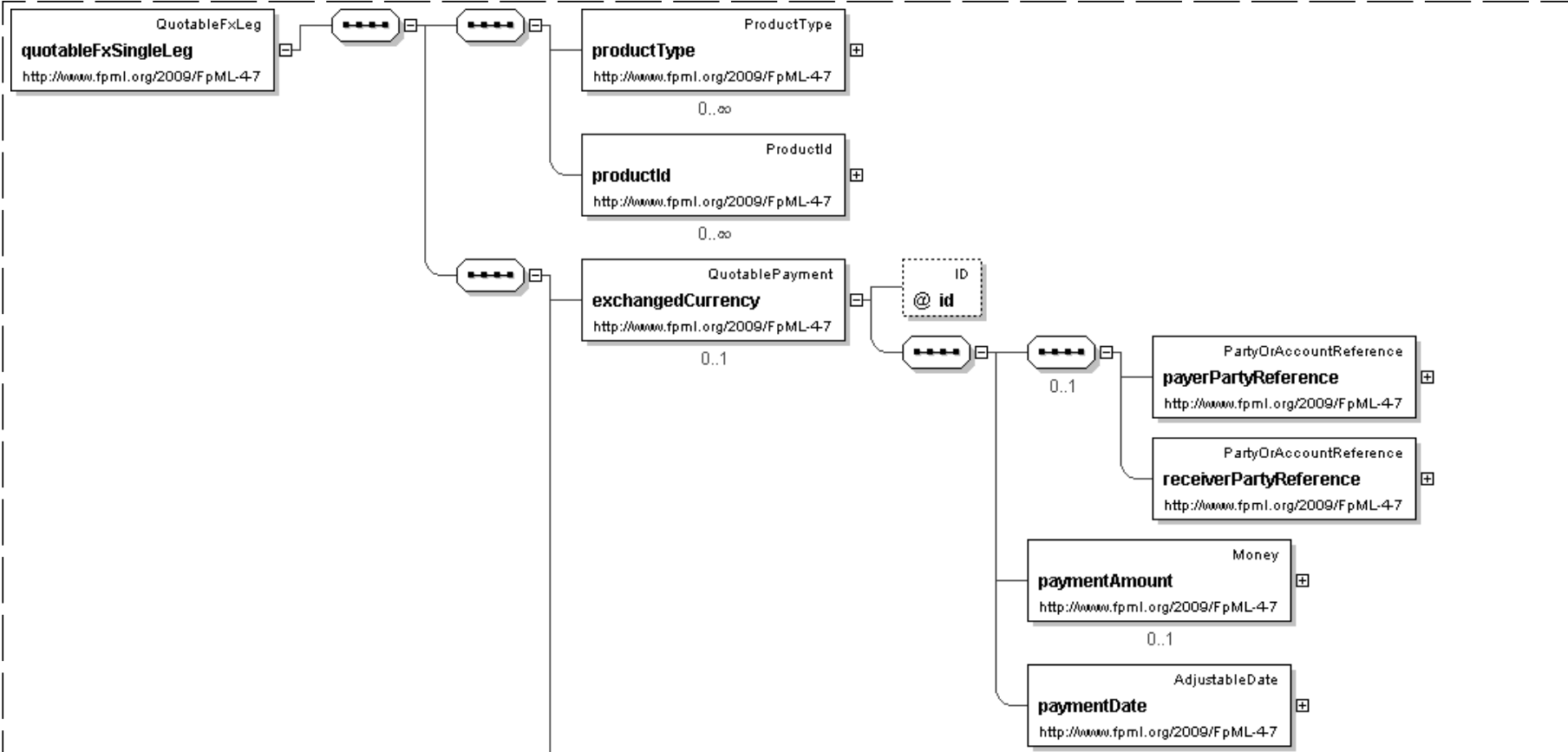
Global Declarations

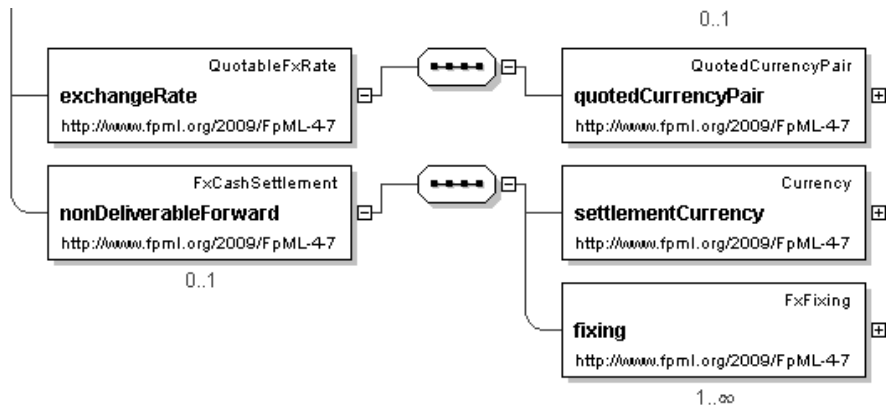
Element: **quotableFxSingleLeg**

- This element can be used wherever the following element is referenced:
  - [quotableProduct](#)

Name	quotableFxSingleLeg
Type	<a href="#">QuotableFxLeg</a>
Nilable	no
Abstract	no

Logical Diagram





### XML Instance Representation

```

<quotableFxSingleLeg>
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

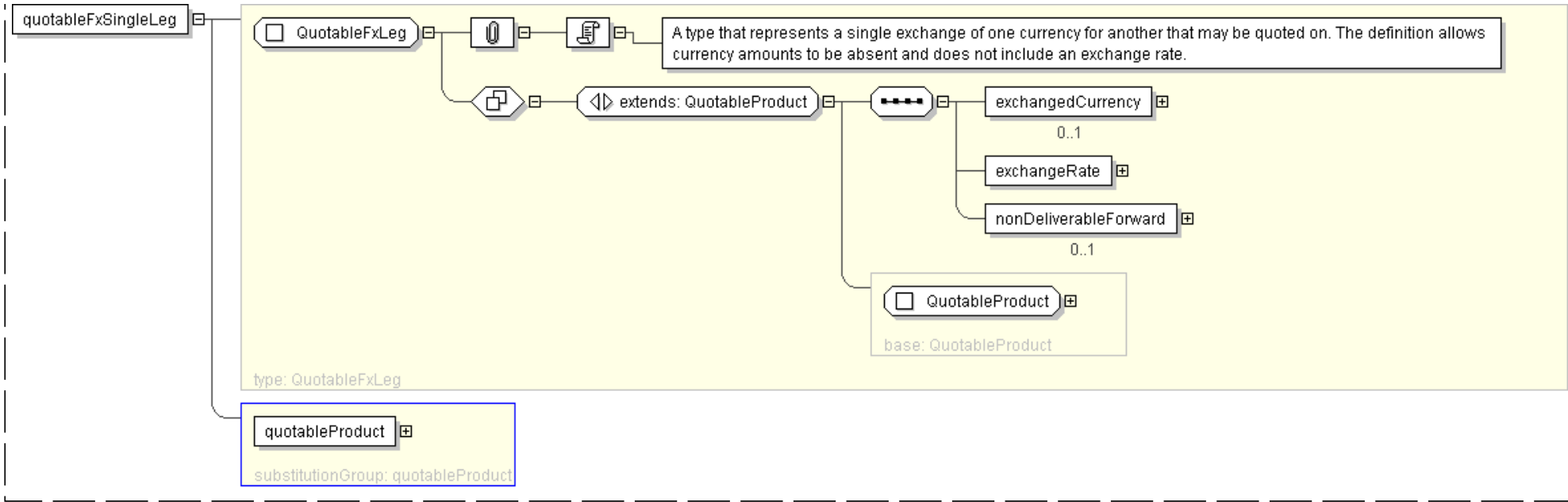
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <exchangedCurrency> QuotablePayment </exchangedCurrency> [0..1]
  <exchangeRate> QuotableFxRate </exchangeRate> [1]
  <nonDeliverableForward> FxCashSettlement </nonDeliverableForward> [0..1]
  'Used to describe a particular type of FX forward transaction that is settled in a
  single currency.'

</quotableFxSingleLeg>

```

### Diagram



Schema Component Representation

```
<xsd:element name="quotableFxSingleLeg" type=" QuotableFxLeg"
" substitutionGroup="quotableProduct" />
```

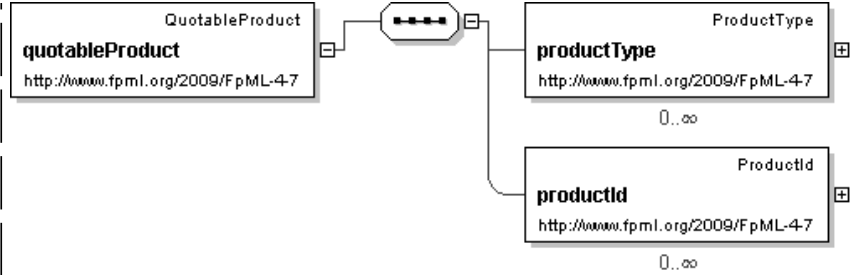
[top](#)

Element: **quotableProduct**

- The following elements can be used wherever this element is referenced:
  - [quotableFxSingleLeg](#)

Name	quotableProduct
Used by (from the same schema document)	Complex Type <a href="#">QuoteUpdated</a> , Complex Type <a href="#">RequestQuote</a>
Type	<a href="#">QuotableProduct</a>
Nilable	no
Abstract	yes

Logical Diagram



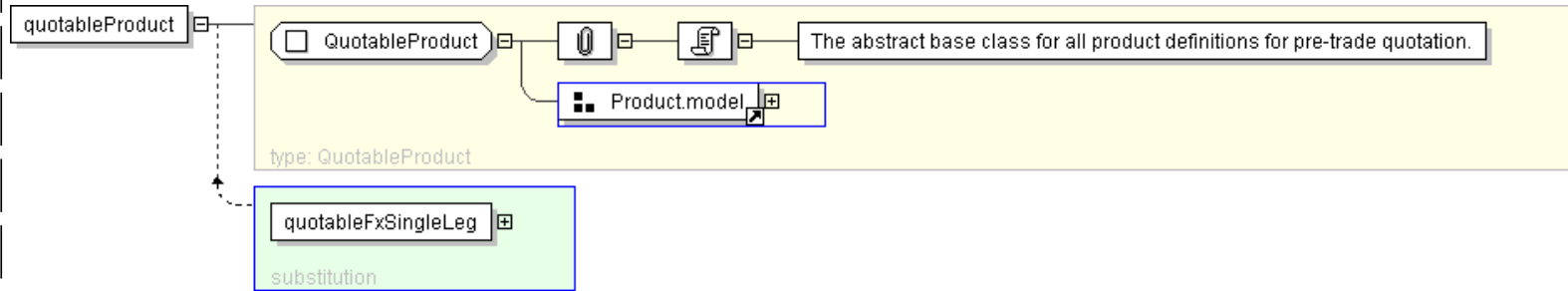
XML Instance Representation

```
<quotableProduct>
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

</quotableProduct>
```

Diagram



Schema Component Representation

```
<xsd:element name="quotableProduct" type=" QuotableProduct " abstract="true"/>
```

[top](#)

Global Definitions

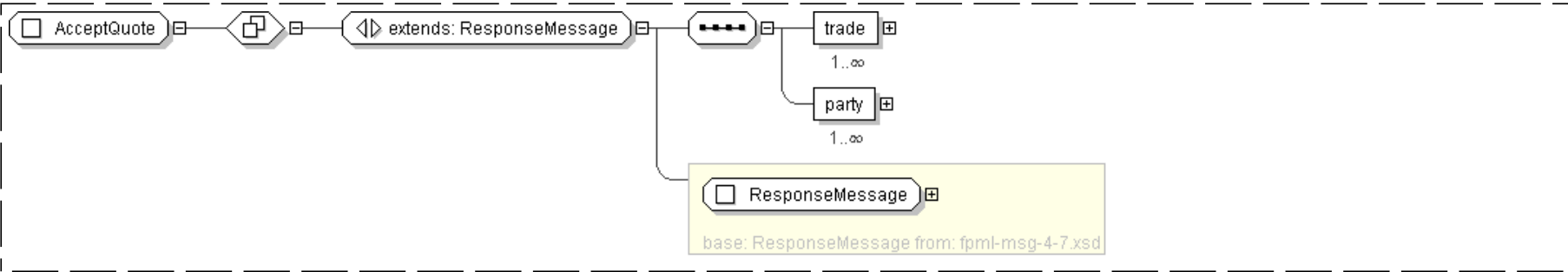
Complex Type: **AcceptQuote**

Super-types:	<a href="#">ResponseMessage</a> < <b>AcceptQuote</b> (by extension)
Sub-types:	None
Name	AcceptQuote

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <trade> Trade </trade> [1..*]
  <party> Party </party> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AcceptQuote">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **QuotableFxLeg**

Super-types:	<a href="#">QuotableProduct</a> < <b>QuotableFxLeg</b> (by extension)
Sub-types:	None

Name	QuotableFxLeg
Used by (from the same schema document)	Element <a href="#">quotableFxSingleLeg</a>
Abstract	no
Documentation	A type that represents a single exchange of one currency for another that may be quoted on. The definition allows currency amounts to be absent and does not include an exchange rate.

XML Instance Representation

<...>

<productType> [ProductType](#) </productType> [0..\*]

'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

<productId> [ProductId](#) </productId> [0..\*]

'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

<exchangedCurrency> [QuotablePayment](#) </exchangedCurrency> [0..1]

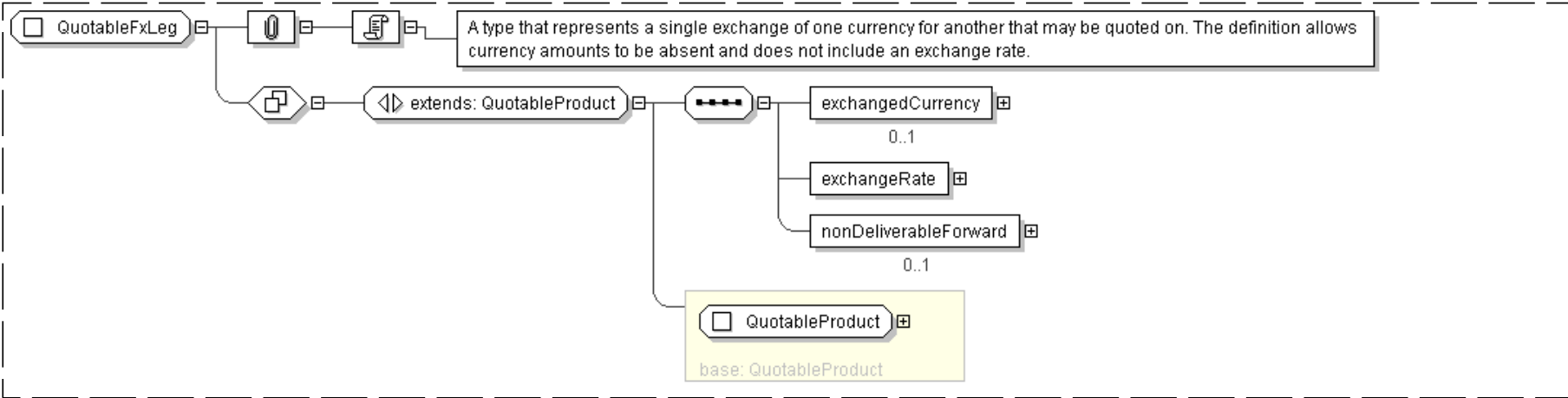
<exchangeRate> [QuotableFxRate](#) </exchangeRate> [1]

<nonDeliverableForward> [FxCashSettlement](#) </nonDeliverableForward> [0..1]

'Used to describe a particular type of FX forward transaction that is settled in a single currency.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotableFxLeg">
  <xsd:complexContent>
    <xsd:extension base=" QuotableProduct " >
      <xsd:sequence>
        <xsd:element name="exchangedCurrency" type=" QuotablePayment " minOccurs="0"/>
        <xsd:element name="exchangeRate" type=" QuotableFxRate "/>
        <xsd:element name="nonDeliverableForward" type=" FxCashSettlement " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: QuotableFxRate

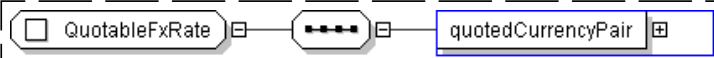
Super-types:	None
Sub-types:	None

Name	QuotableFxRate
Used by (from the same schema document)	Complex Type <a href="#">QuotableFxLeg</a>
Abstract	no

XML Instance Representation

```
<...>
  <quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotableFxRate">
  <xsd:sequence>
    <xsd:element name="quotedCurrencyPair" type=" QuotedCurrencyPair "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: QuotablePayment

Super-types:	<a href="#">PaymentBase</a> < <b>QuotablePayment</b> (by extension)
Sub-types:	None

Name	QuotablePayment
------	-----------------



Used by (from the same schema document)	Complex Type <a href="#">QuotableFxLeg</a>
Abstract	no
Documentation	A type for defining payments.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Group: PayerReceiver.model [0..1]
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

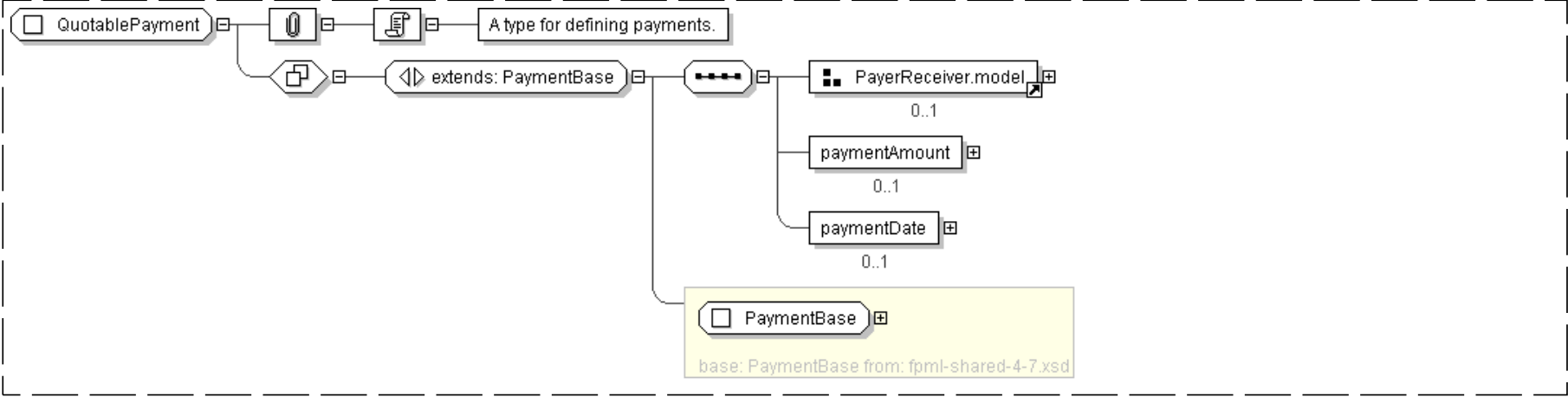
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

End Group: PayerReceiver.model
  <paymentAmount> Money </paymentAmount> [0..1]
  'The currency amount of the payment.'

  <paymentDate> AdjustableDate </paymentDate> [0..1]
  'The payment date. This date is subject to adjustment in accordance with any
  applicable business day convention.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotablePayment">
  <xsd:complexContent>
    <xsd:extension base=" PaymentBase ">
      <xsd:sequence>
        <xsd:group ref=" PayerReceiver.model " minOccurs="0"/>
        <xsd:element name="paymentAmount" type=" Money " minOccurs="0"/>
        <xsd:element name="paymentDate" type=" AdjustableDate " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **QuotableProduct**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QuotableFxLeg</a> (by extension)</li></ul>
Name	QuotableProduct
Used by (from the same schema document)	Element <a href="#">quotableProduct</a>
Abstract	yes
Documentation	The abstract base class for all product definitions for pre-trade quotation.

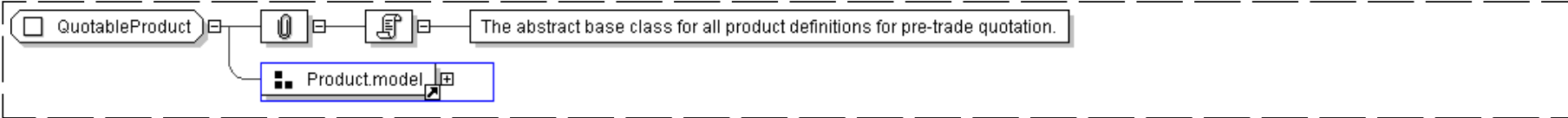
XML Instance Representation

```
<...>
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotableProduct" abstract="true">
  <xsd:group ref=" Product.model " />
</xsd:complexType>
```

[top](#)

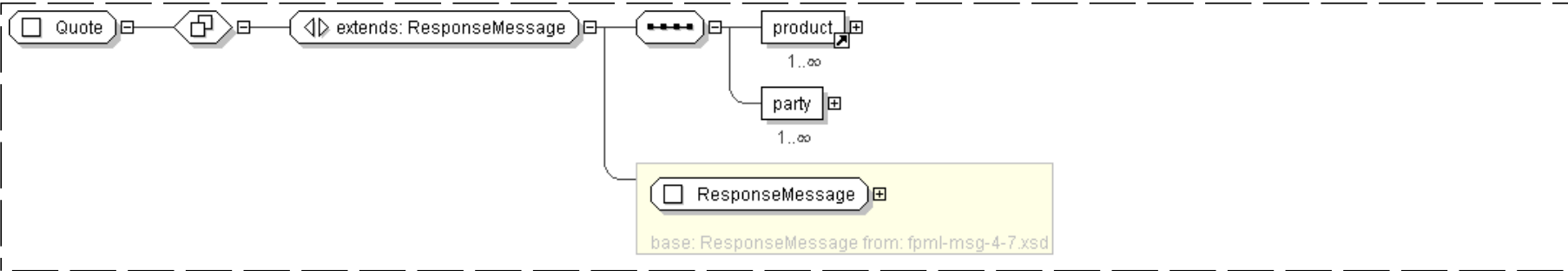
Complex Type: **Quote**

Super-types:	<a href="#">ResponseMessage</a> < <b>Quote</b> (by extension)
Sub-types:	None
Name	Quote

XML Instance Representation

```
<...  
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-  
7'}) [1]  
  
'Indicate which version of the FpML Schema an FpML message adheres to.'  
  
"  
expectedBuild=" xsd:positiveInteger [0..1]  
  
'This optional attribute can be supplied by a message creator in an FpML instance to  
specify which build number of the schema was used to define the message when it was generated.'  
  
"  
actualBuild="5 [0..1]  
  
'The specific build number of this schema version. This attribute is not included in  
an instance document. Instead, it is supplied by the XML parser when the document is  
validated against the FpML schema and indicates the build number of the schema file. Every  
time FpML publishes a change to the schema, validation rules, or examples within a version  
(e.g., version 4.2) the actual build number is incremented. If no changes have been  
made between releases within a version (i.e. from Trial Recommendation to Recommendation)  
the actual build number stays the same.'  
  
">  
  <header> ResponseMessageHeader </header> [1]  
  <validation> Validation </validation> [0..*]  
  <product> ... </product> [1..*]  
  <party> Party </party> [1..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Quote">  
  <xsd:complexContent>  
    <xsd:extension base=" ResponseMessage ">  
      <xsd:sequence>  
        <xsd:element ref=" product " maxOccurs="unbounded"/>  
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **QuoteAcceptanceConfirmed**

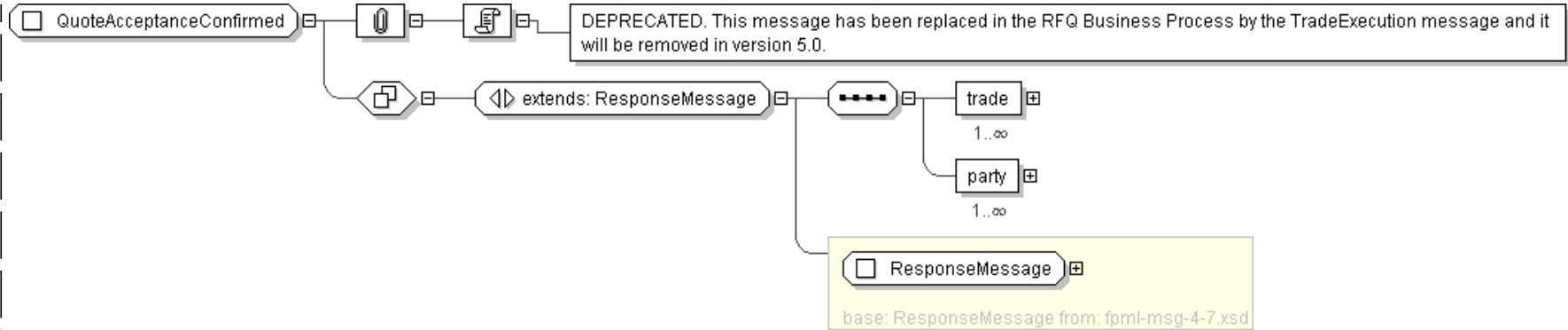
Super-types:	<a href="#">ResponseMessage</a> < <b>QuoteAcceptanceConfirmed</b> (by extension)
Sub-types:	None

Name	QuoteAcceptanceConfirmed
Abstract	no
Documentation	DEPRECATED. This message has been replaced in the RFQ Business Process by the TradeExecution message and it will be removed in version 5.0.

XML Instance Representation

```
<...  
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-  
7'}) [1]  
  
'Indicate which version of the FpML Schema an FpML message adheres to.'  
  
"  
expectedBuild=" xsd:positiveInteger [0..1]  
  
'This optional attribute can be supplied by a message creator in an FpML instance to  
specify which build number of the schema was used to define the message when it was generated.'  
  
"  
actualBuild="5 [0..1]  
  
'The specific build number of this schema version. This attribute is not included in  
an instance document. Instead, it is supplied by the XML parser when the document is  
validated against the FpML schema and indicates the build number of the schema file. Every  
time FpML publishes a change to the schema, validation rules, or examples within a version  
(e.g., version 4.2) the actual build number is incremented. If no changes have been  
made between releases within a version (i.e. from Trial Recommendation to Recommendation)  
the actual build number stays the same.'  
  
">  
  <header> ResponseMessageHeader </header> [1]  
  <validation> Validation </validation> [0..*]  
  <trade> Trade </trade> [1..*]  
  <party> Party </party> [1..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuoteAcceptanceConfirmed" deprecated="true"
  deprecatedReason="The message has been replaced by the TradeExecution message to provide
the link between the RFQ and Trade Execution processes.">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage " >
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: QuoteAlreadyExpired

Super-types:	<a href="#">ResponseMessage</a> < <b>QuoteAlreadyExpired</b> (by extension)
Sub-types:	None

Name	QuoteAlreadyExpired
Abstract	no

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
```

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

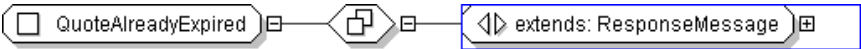
">

<header> ResponseMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="QuoteAlreadyExpired">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **QuoteUpdated**

Super-types:	<a href="#">ResponseMessage</a> < <b>QuoteUpdated</b> (by extension)
Sub-types:	None

Name	QuoteUpdated
Abstract	no

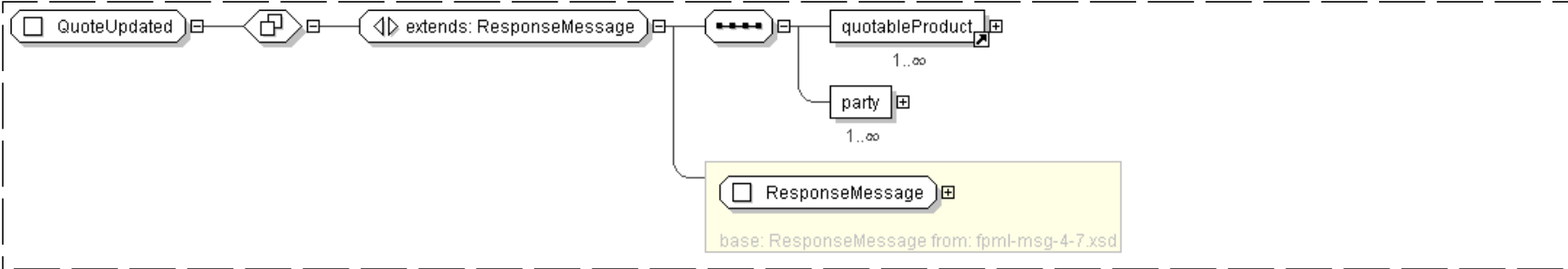
XML Instance Representation

<...  
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
'Indicate which version of the FpML Schema an FpML message adheres to.'  
"  
expectedBuild=" xsd:positiveInteger [0..1]  
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'  
"  
actualBuild="**5** [0..1]  
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version

(e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

```
">
<header> ResponseMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<quotableProduct> ... </quotableProduct> [1..*]
<party> Party </party> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuoteUpdated">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:element ref=" quotableProduct " maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RequestQuote

Super-types:	<a href="#">RequestMessage</a> < <b>RequestQuote</b> (by extension)
Sub-types:	None

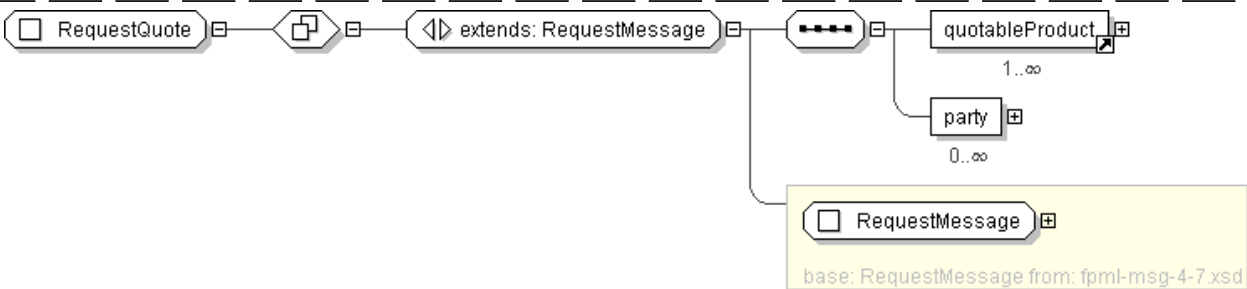
Name	RequestQuote
Abstract	no

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
```

```
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <quotableProduct> ... </quotableProduct> [1..*]
  <party> Party </party> [0..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestQuote">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage ">
      <xsd:sequence>
        <xsd:element ref=" quotableProduct " maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **RequestQuoteResponse**

Super-types: [ResponseMessage](#) < **RequestQuoteResponse** (by extension)



Sub-types:

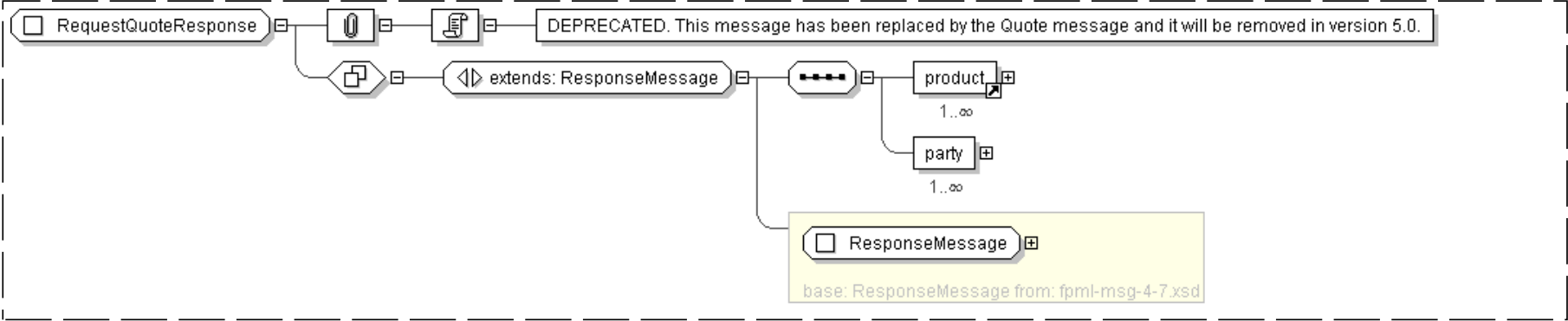
None

Name	RequestQuoteResponse
Abstract	no
Documentation	DEPRECATED. This message has been replaced by the Quote message and it will be removed in version 5.0.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
  specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
  an instance document. Instead, it is supplied by the XML parser when the document is
  validated against the FpML schema and indicates the build number of the schema file. Every
  time FpML publishes a change to the schema, validation rules, or examples within a version
  (e.g., version 4.2) the actual build number is incremented. If no changes have been
  made between releases within a version (i.e. from Trial Recommendation to Recommendation)
  the actual build number stays the same.'
">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <product> ... </product> [1..*]
  <party> Party </party> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestQuoteResponse" deprecated="true" deprecatedReason="The naming
of the message was not clear, it has been replaced by the Quote message">
  <xsd:complexContent>
```

```
<xsd:extension base=" ResponseMessage ">
  <xsd:sequence>
    <xsd:element ref=" product " maxOccurs="unbounded"/>
    <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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## Legend

### Complex Type:

Schema Component Type

### AusAddress

Schema Component Name

*Super-types:* [Address](#) < AusAddress (by extension)  
*Sub-types:*

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

### XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

### Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	http://www.fpml.org/2009/FpML-4-7
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>fpml-reporting-4-7.xsd</li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	http://www.fpml.org/2009/FpML-4-7
ecore	http://www.eclipse.org/emf/2002/Ecore
xml	http://www.w3.org/XML/1998/namespace
xsd	http://www.w3.org/2001/XMLSchema
fpml	http://www.fpml.org/2009/FpML-4-7

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $" attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-reporting-4-7.xsd"/>
  ...
</xsd:schema>
```

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Global Definitions

Complex Type: **AllegedCashflow**

Super-types:	None
Sub-types:	None

Name	AllegedCashflow
Used by (from the same schema document)	Complex Type <a href="#">TradeCashflowsMatchResult</a>
Abstract	no

XML Instance Representation

```
<...>
  <asOfDate> xsd:dateTime </asOfDate> [0..1]
  'The date and time at which the set of cashflows was defined.'

  <tradeCashflowsId> TradeCashflowsId </tradeCashflowsId> [1]
  'Unique identifier assigned by the party asserting the set of cashflows to be reconciled.'

  Start Group: TradeCashflows.model [0..1]
    <tradeIdentifyingItems> TradeIdentifyingItems </tradeIdentifyingItems> [1]
    'Structure that holds reference to the trade through the tradeId and optionally some trade-specific elements for identifying the trade in the case of trades that have not been negotiated through electronic platforms and for which the counterparty's trade ID has not been captured.'

    <adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
    'The adjusted date in which the payments are being paid/received.'

    <payment> PaymentMatching </payment> [1..*]
    'Specifies the payment that is exposed to the matching process. Usually there will be a single payment but for cross-currency swaps a different payment per currency shall be provided.'
```

```
|
|End Group: TradeCashflows.model
|</...>
|
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AllegedCashflow">
  <xsd:sequence>
    <xsd:group ref=" DefinitionAndCashflows.model " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **AssertedCashflow**

Super-types:	None
Sub-types:	None
Name	AssertedCashflow
Used by (from the same schema document)	Complex Type <a href="#">TradeCashflowsMatchResult</a>
Abstract	no
Documentation	A type that defines a cashflow (or set of cashflows for cross-currency swap) asserted by one of the parties.

XML Instance Representation

```
<...>
  <asOfDate> xsd:dateTime </asOfDate> [0..1]
  'The date and time at which the set of cashflows was defined.'

  <tradeCashflowsId> TradeCashflowsId </tradeCashflowsId> [1]
  'Unique identifier assigned by the party asserting the set of cashflows to be reconciled.'

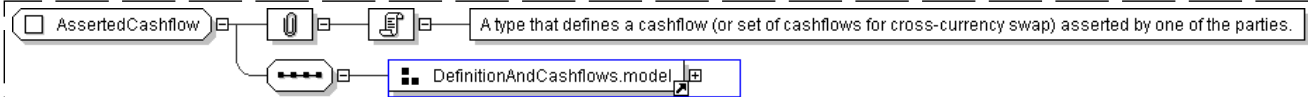
  Start Group: TradeCashflows.model [0..1]
    <tradeIdentifyingItems> TradeIdentifyingItems </tradeIdentifyingItems> [1]
    'Structure that holds reference to the trade through the tradeId and optionally some
    trade-specific elements for identifying the trade in the case of trades that have not
    been negotiated through electronic platforms and for which the counterparty\'s trade ID has
    not been captured.'

    <adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
    'The adjusted date in which the payments are being paid/received.'

    <payment> PaymentMatching </payment> [1..*]
    'Specifies the payment that is exposed to the matching process. Usually there will be a
    single payment but for cross-currency swaps a different payment per currency shall be provided.'

  End Group: TradeCashflows.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AssertedCashflow">
  <xsd:sequence>
    <xsd:group ref=" DefinitionAndCashflows.model " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **AssertedPosition**

Super-types:	None
Sub-types:	None
Name	AssertedPosition
Used by (from the same schema document)	Complex Type <a href="#">PositionMatchResult</a> , Complex Type <a href="#">PositionMatchResult</a>
Abstract	no
Documentation	A type that defines a position asserted by one of the parties.

XML Instance Representation

```
<...>
  <positionId> PositionId </positionId> [1]
  'A version-independent identifier for the position, possibly based on trade identifier.'

  <version> xsd:positiveInteger </version> [0..1]
  'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply
  newer versions. There is no requirement that version identifiers for a position be
  sequential or small, so for example timestamp-based version identifiers could be used.'

  Start Group: PositionWithoutId.model [0..1]
  <reportingRoles> ReportingRoles </reportingRoles> [0..1]
  'Information about the roles of the parties with respect to reporting the positions.'

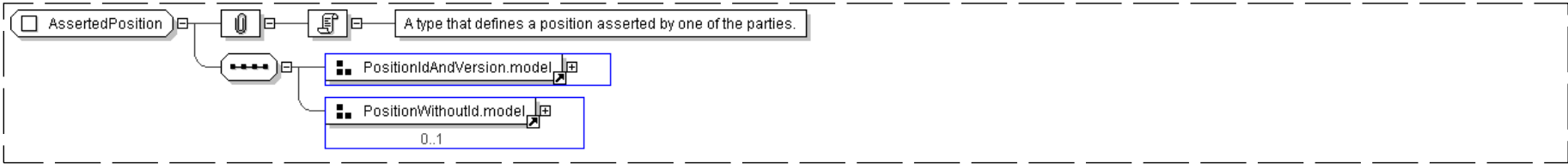
  <constituent> PositionConstituent </constituent> [1]
  'The components that create this position.'

  <scheduledDate> ScheduledDate </scheduledDate> [0..*]
  'Position level schedule date, such as final payment dates, in a simple and flexible format.'

  <valuation> AssetValuation </valuation> [0..*]
  'Valuation reported for the position, such as NPV or accrued interest. The asset/
  object references in the valuations should refer to the deal or components of the deal in
  the position, e.g. legs, streams, or underlyers.'

  End Group: PositionWithoutId.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AssertedPosition">
  <xsd:sequence>
    <xsd:group ref=" PositionIdAndVersion.model " />
  </xsd:sequence>
```



```
<xsd:group ref=" PositionWithoutId.model " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

Complex Type: **CalculationDetails**

Super-types:	None
Sub-types:	None
Name	CalculationDetails
Used by (from the same schema document)	Complex Type <a href="#">PaymentMatching</a>
Abstract	no
Documentation	A cashflow component with optional calculation details that explain how the cashflow amount was computed.

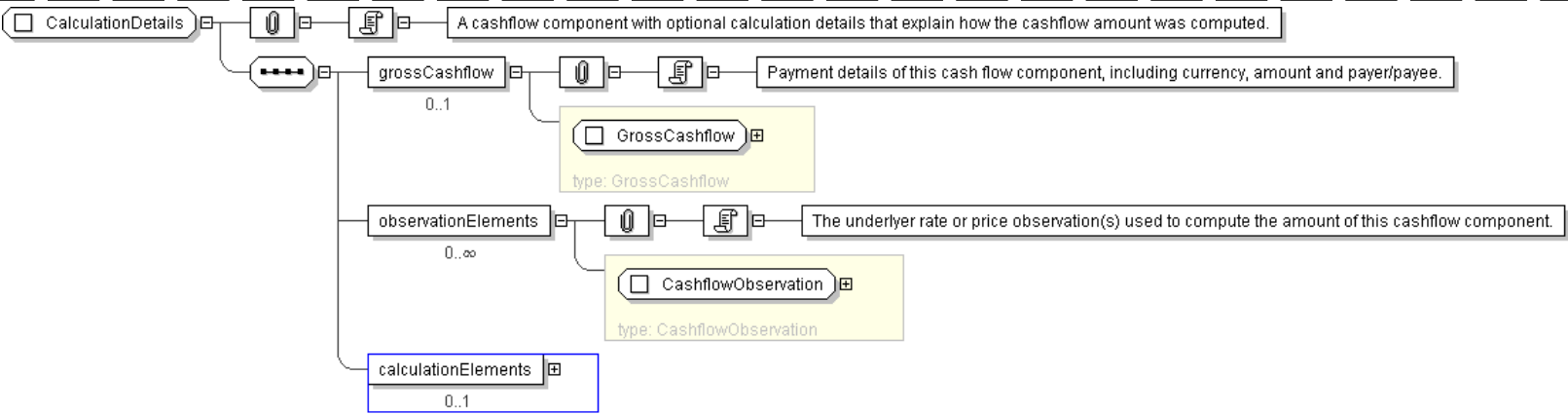
XML Instance Representation

```
<...>
<grossCashflow> GrossCashflow </grossCashflow> [0..1]
'Payment details of this cash flow component, including currency, amount and payer/payee.'

<observationElements> CashflowObservation </observationElements> [0..*]
'The underlyer rate or price observation(s) used to compute the amount of this
cashflow component.'

<calculationElements> CashflowCalculationElements </calculationElements> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationDetails">
  <xsd:sequence>
    <xsd:element name="grossCashflow" type=" GrossCashflow " minOccurs="0"/>
    <xsd:element name="observationElements" type=" CashflowObservation "
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="calculationElements" type=" CashflowCalculationElements " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **CancelTradeCashflows**

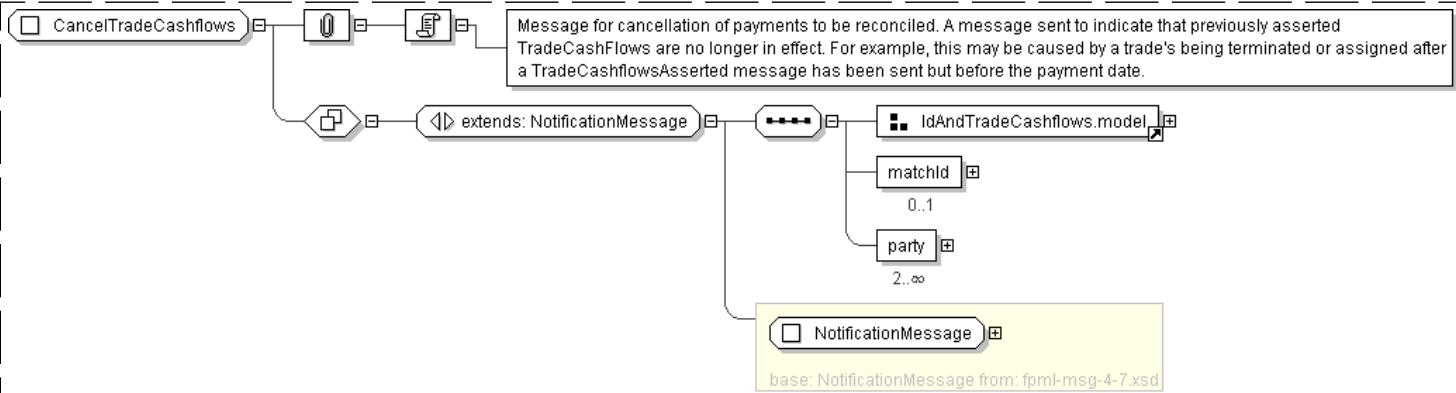
Super-types:	<a href="#">NotificationMessage</a> < <b>CancelTradeCashflows</b> (by extension)
Sub-types:	None

Name	CancelTradeCashflows
Abstract	no
Documentation	Message for cancellation of payments to be reconciled. A message sent to indicate that previously asserted TradeCashFlows are no longer in effect. For example, this may be caused by a trade's being terminated or assigned after a TradeCashflowsAsserted message has been sent but before the payment date.

XML Instance Representation

<pre>&lt;...   version=" xsd:token (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1]    'Indicate which version of the FpML Schema an FpML message adheres to.'    "   expectedBuild=" xsd:positiveInteger [0..1]   'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'    "   actualBuild="5 [0..1]   'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'    "&gt;   &lt;header&gt; <a href="#">NotificationMessageHeader</a> &lt;/header&gt; [1]   &lt;validation&gt; <a href="#">Validation</a> &lt;/validation&gt; [0..*]   &lt;tradeCashflowsId&gt; <a href="#">TradeCashflowsId</a> &lt;/tradeCashflowsId&gt; [1]    'Unique identifier assigned by either party to a set of cashflows.'    Start Group: <a href="#">TradeCashflows.model</a> [0..1]     &lt;tradeIdentifyingItems&gt; <a href="#">TradeIdentifyingItems</a> &lt;/tradeIdentifyingItems&gt; [1]     'Structure that holds reference to the trade through the tradeId and optionally some trade-specific elements for identifying the trade in the case of trades that have not been negotiated through electronic platforms and for which the counterparty\'s trade ID has not been captured.'      &lt;adjustedPaymentDate&gt; xsd:date &lt;/adjustedPaymentDate&gt; [1]     'The adjusted date in which the payments are being paid/received.'      &lt;payment&gt; <a href="#">PaymentMatching</a> &lt;/payment&gt; [1..*]     'Specifies the payment that is exposed to the matching process. Usually there will be a single payment but for cross-currency swaps a different payment per currency shall be provided.'    End Group: <a href="#">TradeCashflows.model</a>   &lt;matchId&gt; <a href="#">MatchId</a> &lt;/matchId&gt; [0..1]   'A unique identifier assigned by matching service to each set of matched cashflows.'    &lt;party&gt; <a href="#">Party</a> &lt;/party&gt; [2..*]   'One party element for each of the principal parties and any other party that is referenced.'    &lt;/...&gt;</pre>	
--	--

Diagram



Schema Component Representation

```
<xsd:complexType name="CancelTradeCashflows">
  <xsd:complexContent>
    <xsd:extension base="NotificationMessage">
      <xsd:sequence>
        <xsd:group ref="IdAndTradeCashflows.model"/>
        <xsd:element name="matchId" type="MatchId" minOccurs="0"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CashflowCalculationElements**

Super-types:	None
Sub-types:	None
Name	CashflowCalculationElements
Used by (from the same schema document)	Complex Type <a href="#">CalculationDetails</a>
Abstract	no

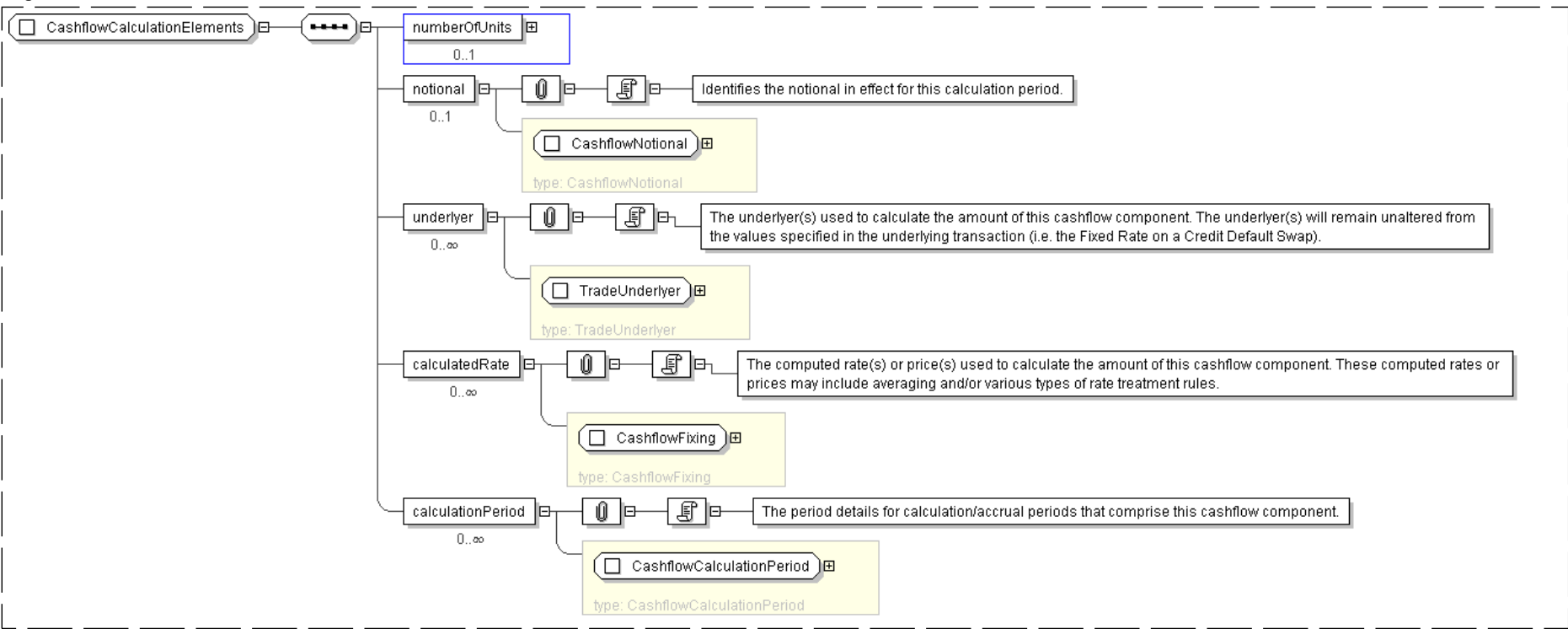
XML Instance Representation

```
<...>
<numberOfUnits> UnderlyerReferenceUnits </numberOfUnits> [0..1]
<notional> CashflowNotional </notional> [0..1]
'Identifies the notional in effect for this calculation period.'

<underlyer> TradeUnderlyer </underlyer> [0..*]
'The underlyer(s) used to calculate the amount of this cashflow component. The underlyer
(s) will remain unaltered from the values specified in the underlying transaction (i.e.
the Fixed Rate on a Credit Default Swap).'
```

1 </...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowCalculationElements">
  <xsd:sequence>
    <xsd:element name="numberOfUnits" type="UnderlyerReferenceUnits" minOccurs="0"/>
    <xsd:element name="notional" type="CashflowNotional" minOccurs="0"/>
    <xsd:element name="underlyer" type="TradeUnderlyer" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="calculatedRate" type="CashflowFixing" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="calculationPeriod" type="CashflowCalculationPeriod"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CashflowCalculationPeriod**

Super-types:	None
Sub-types:	None
Name	CashflowCalculationPeriod
Used by (from the same schema document)	Complex Type <a href="#">CashflowCalculationElements</a>
Abstract	no
Documentation	The period calculation details for a calculation/accrual period. This will include information about the dates and duration of the accrual period, the rate fixing (s), the notional in effect, and the amount of the accrual.

XML Instance Representation

```

<...>
<calculatedRateReference> CashflowFixingReference </calculatedRateReference> [0..*]
'Reference to the fixing details defined somewhere in the document.'

<adjustedStartDate> xsd:date </adjustedStartDate> [0..1]
'Date that defines the beginning of the calculation period.'

<adjustedEndDate> xsd:date </adjustedEndDate> [0..1]
'Date that defines the end of the calculation period.'

<numberOfDays> xsd:positiveInteger </numberOfDays> [0..1]
'The number of days from the adjusted effective / start date to the adjusted termination /
end date calculated in accordance with the applicable day count fraction.'

<fixedRateStepReference> StepReference </fixedRateStepReference> [0..1]
'Reference to the fixed rate schedule\'s step in order to identify the calculation period
fixed rate.'

<dayCountFraction> DayCountFraction </dayCountFraction> [0..1]
'The specification for how the number of days between two dates is calculated for purposes
of calculation of a fixed or floating payment amount and the basis for how many days
are assumed to be in a year. Day Count Fraction is an ISDA term. The equivalent
AFB (Association Francaise de Banques) term is Calculation Basis.'

<dayCountYearFraction> xsd:decimal </dayCountYearFraction> [0..1]
'The year fraction value of the calculation period, result of applying the ISDA rules for
day count fraction defined in the ISDA Annex.'

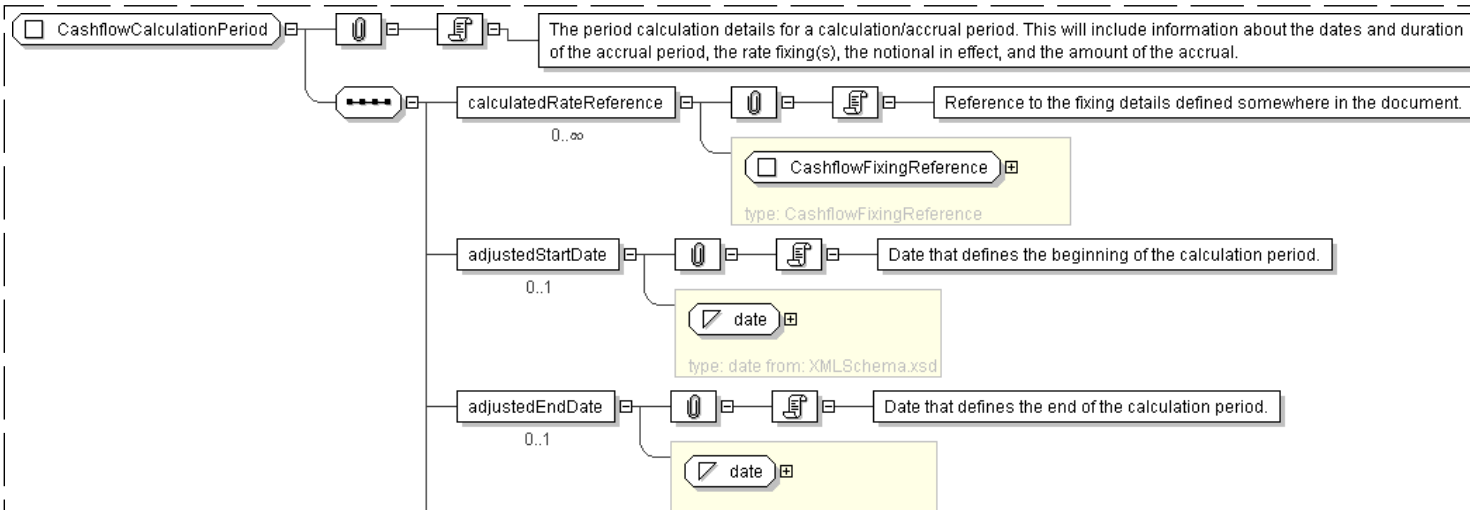
<compoundingMethod> CompoundingMethodEnum </compoundingMethod> [0..1]
'If more that one calculation period contributes to a single payment amount this
element specifies whether compounding is applicable, and if so, what compounding method is
to be used. This element must only be included when more that one calculation
period contributes to a single payment amount.'

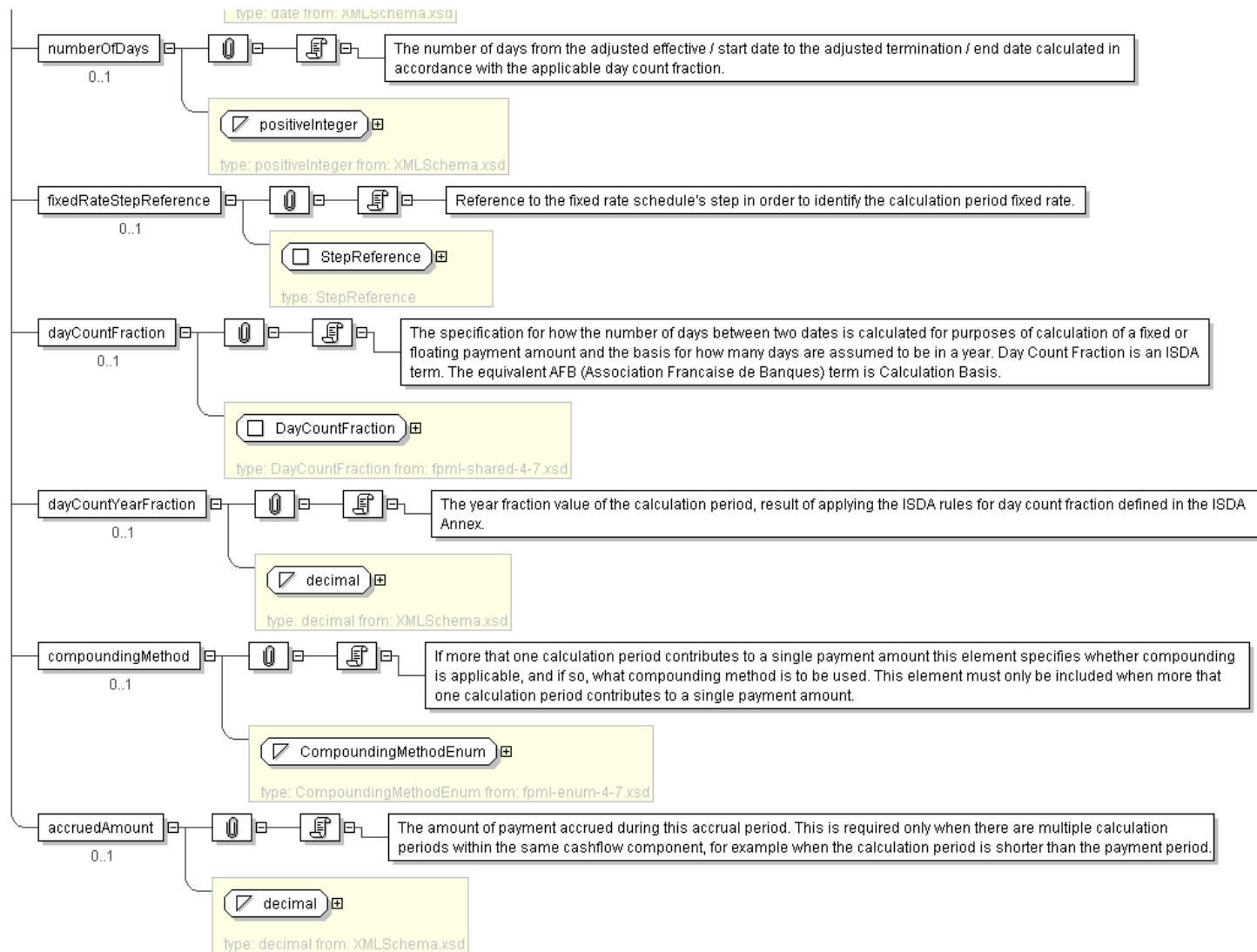
<accruedAmount> xsd:decimal </accruedAmount> [0..1]
'The amount of payment accrued during this accrual period. This is required only when there
are multiple calculation periods within the same cashflow component, for example when
the calculation period is shorter than the payment period.'

</...>

```

## Diagram





#### Schema Component Representation

```

<xsd:complexType name="CashflowCalculationPeriod">
  <xsd:sequence>
    <xsd:element name="calculatedRateReference" type="CashflowFixingReference"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="adjustedStartDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedEndDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="numberOfDays" type="xsd:positiveInteger" minOccurs="0"/>
    <xsd:element name="fixedRateStepReference" type="StepReference" minOccurs="0"/>
    <xsd:element name="dayCountFraction" type="DayCountFraction" minOccurs="0"/>
    <xsd:element name="dayCountYearFraction" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="compoundingMethod" type="CompoundingMethodEnum" minOccurs="0"/>
    <xsd:element name="accruedAmount" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

```

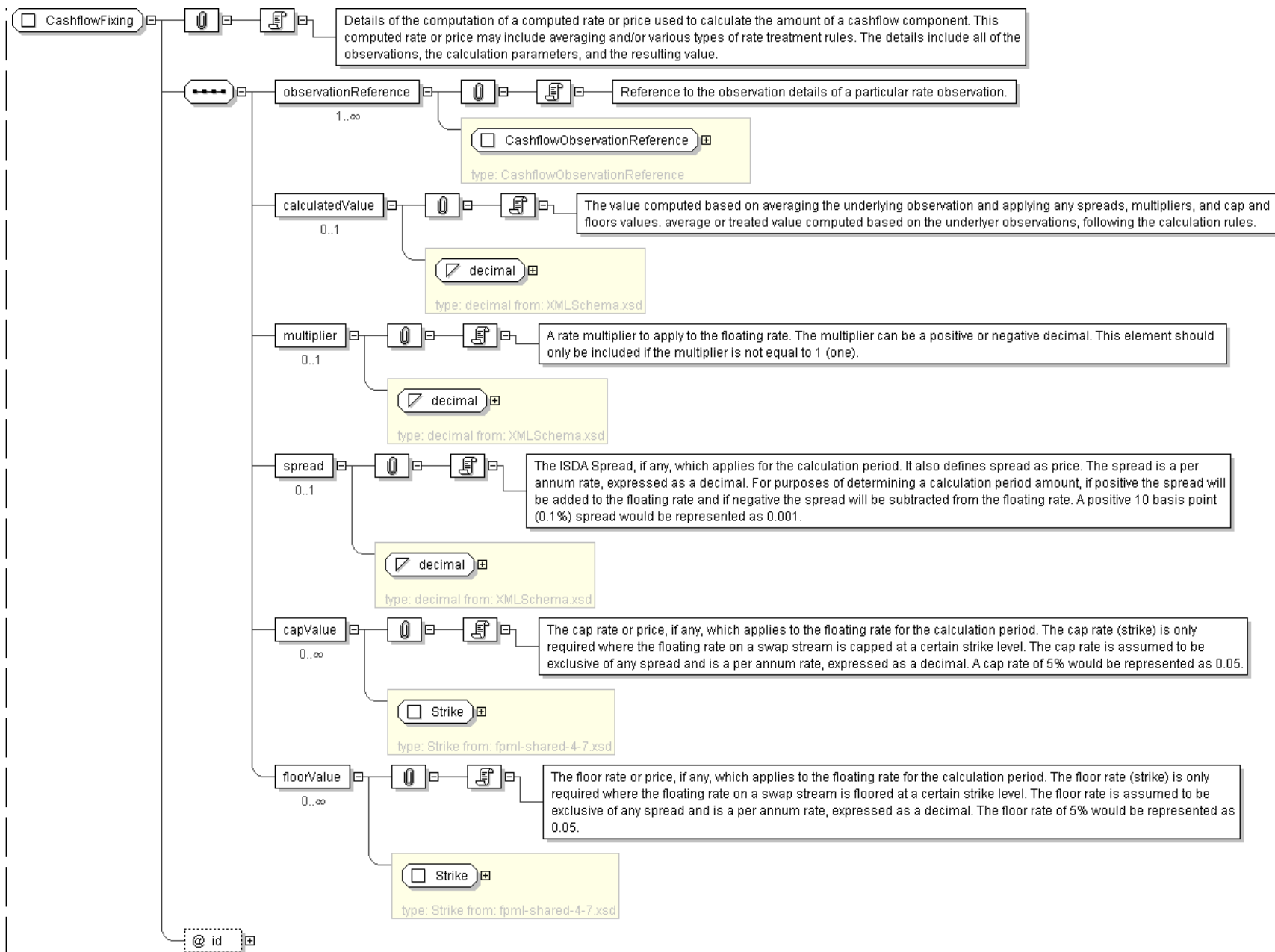
<b>Name</b>	CashflowFixing
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">CashflowCalculationElements</a>
<b>Abstract</b>	no
<b>Documentation</b>	Details of the computation of a computed rate or price used to calculate the amount of a cashflow component. This computed rate or price may include averaging and/or various types of rate treatment rules. The details include all of the observations, the calculation parameters, and the resulting value.

```
<...
id=" xsd:ID [0..1]">
<observationReference> CashflowObservationReference </observationReference> [1..*]
'Reference to the observation details of a particular rate observation.'

<calculatedValue> xsd:decimal </calculatedValue> [0..1]
'The value computed based on averaging the underlying observation and applying any
spreads, multipliers, and cap and floors values. average or treated value computed based on
the underlyer observations, following the calculation rules.'

<multiplier> xsd:decimal </multiplier> [0..1]
'A rate multiplier to apply to the floating rate. The multiplier can be a positive or
negative decimal. This element should only be included if the multiplier is not equal to
1 (one).'Strike </capValue> [0..*]
'The cap rate or price, if any, which applies to the floating rate for the calculation
period. The cap rate (strike) is only required where the floating rate on a swap stream
is capped at a certain strike level. The cap rate is assumed to be exclusive of any spread
and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'Strike </floorValue> [0..*]
'The floor rate or price, if any, which applies to the floating rate for the
calculation period. The floor rate (strike) is only required where the floating rate on a
swap stream is floored at a certain strike level. The floor rate is assumed to be exclusive
of any spread and is a per annum rate, expressed as a decimal. The floor rate of 5% would
be represented as 0.05.'
```

file:///C:/Irina-Local/Subversion/trunk/pdf/fpml-reconciliation-4-7.xsd.html (11 of 53) [12/16/2009 3:41:46 PM]



## Schema Component Representation

```

<xsd:complexType name="CashflowFixing">
  <xsd:sequence>
    <xsd:element name="observationReference" type="CashflowObservationReference"
      " maxOccurs="unbounded"/>
    <xsd:element name="calculatedValue" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="multiplier" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="spread" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="capValue" type="Strike" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="floorValue" type="Strike" minOccurs="0" maxOccurs="unbounded"/>
  
```



```
<xsd:element name="floorValue" type=" Strike " minOccurs="0" maxOccurs="unbounded" />
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **CashflowFixingReference**

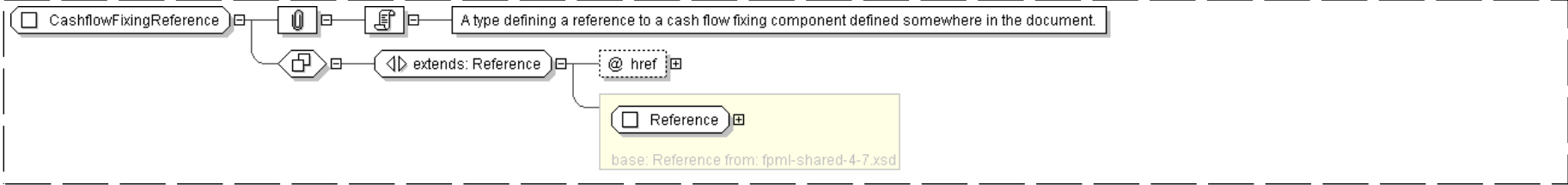
Super-types:	<a href="#">Reference</a> < <b>CashflowFixingReference</b> (by extension)
Sub-types:	None

Name	CashflowFixingReference
Used by (from the same schema document)	Complex Type <a href="#">CashflowCalculationPeriod</a>
Abstract	no
Documentation	A type defining a reference to a cash flow fixing component defined somewhere in the document.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowFixingReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="CashflowFixing"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CashflowId**

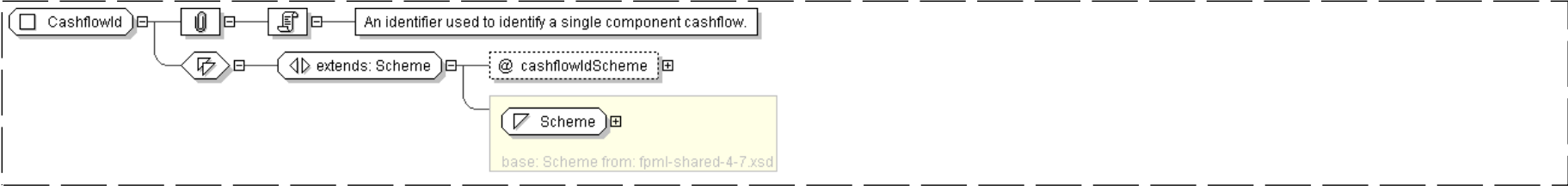
Super-types:	<a href="#">Scheme</a> < <b>CashflowId</b> (by extension)
Sub-types:	None

Name	CashflowId
Used by (from the same schema document)	Complex Type <a href="#">GrossCashflow</a>
Abstract	no
Documentation	An identifier used to identify a single component cashflow.

XML Instance Representation

```
<...
cashflowIdScheme=" xsd:anyURI [0..1]" >
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowId">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="cashflowIdScheme" type="xsd:anyURI" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CashflowNotional**

Super-types:	None
Sub-types:	None
Name	CashflowNotional
Used by (from the same schema document)	Complex Type <a href="#">CashflowCalculationElements</a> , Complex Type <a href="#">TradeDetails</a>
Abstract	no
Documentation	The notional/principal value/quantity/volume used to compute the cashflow.

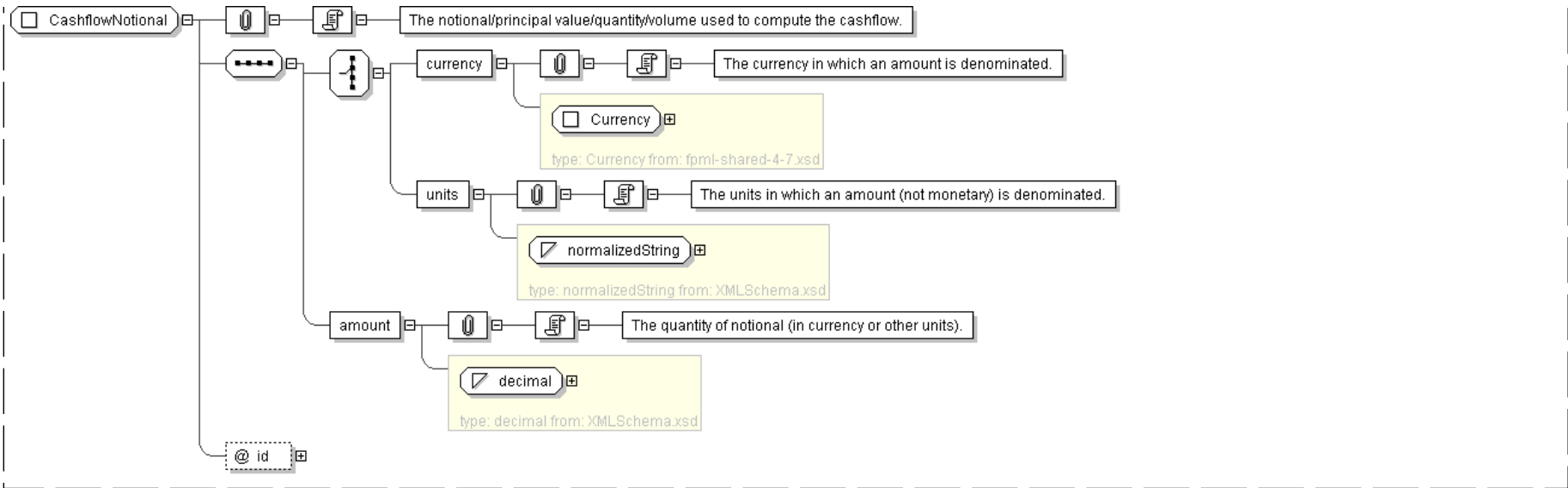
XML Instance Representation

```
<...
id="xsd:ID [0..1]">
Start Choice [1]
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

  <units> xsd:normalizedString </units> [1]
  'The units in which an amount (not monetary) is denominated.'

End Choice
  <amount> xsd:decimal </amount> [1]
  'The quantity of notional (in currency or other units).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowNotional">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="currency" type=" Currency " />
      <xsd:element name="units" type=" xsd:normalizedString " />
    </xsd:choice>
    <xsd:element name="amount" type=" xsd:decimal " />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **CashflowObservation**

Super-types:	None
Sub-types:	None
Name	CashflowObservation
Used by (from the same schema document)	Complex Type <a href="#">CalculationDetails</a>
Abstract	no
Documentation	An observation of a rate or a price of an underlying used in the computation of a cash flow amount.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <underlyerReference> TradeUnderlyerReference </underlyerReference> [1]
  'The underlyer whose rate or price is observed. Reference to an underlyer defined within
  the calculationElements structure.'

  <underlyingAsset> ... </underlyingAsset> [0..1]
  'In cases where the underlying index is observed by observing the value of a specific
  security different from the index (typically a futures price), the specific security
  whose price was observed. For example, the underlying index might be NYMEX Crude Oil, and
  the underlying asset whose price is observed on a particular day might be CLU7. The index
  is specified via the underlyerReference, while the specific asset is specified via
```

the underlyingAsset.'

<observationDate> [xsd:date](#) </observationDate> [1]

'The date when the rate is observed. Corresponds to adjustedFixingDate on the Interest Rate Derivatives subschema.'

<observedValue> [BasicQuotation](#) </observedValue> [0..1]

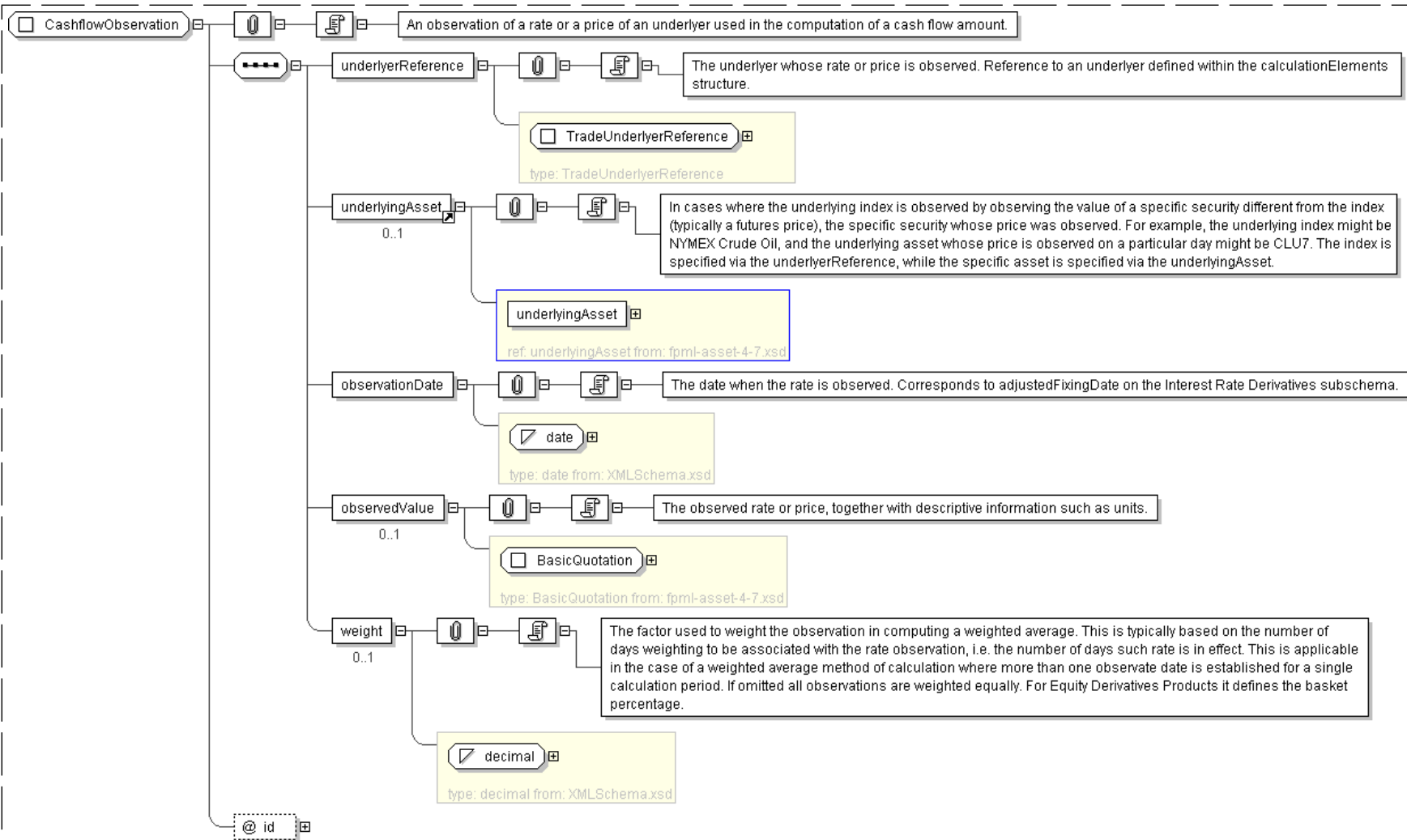
'The observed rate or price, together with descriptive information such as units.'

<weight> [xsd:decimal](#) </weight> [0..1]

'The factor used to weight the observation in computing a weighted average. This is typically based on the number of days weighting to be associated with the rate observation, i.e. the number of days such rate is in effect. This is applicable in the case of a weighted average method of calculation where more than one observe date is established for a single calculation period. If omitted all observations are weighted equally. For Equity Derivatives Products it defines the basket percentage.'

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowObservation">
  <xsd:sequence>
    <xsd:element name="underlyerReference" type="TradeUnderlyerReference"/>
    <xsd:element ref="underlyingAsset" minOccurs="0"/>
    <xsd:element name="observationDate" type="xsd:date"/>
    <xsd:element name="observedValue" type="BasicQuotation" minOccurs="0"/>
    <xsd:element name="weight" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" use="optional"/>
</xsd:complexType>
```

[top](#)

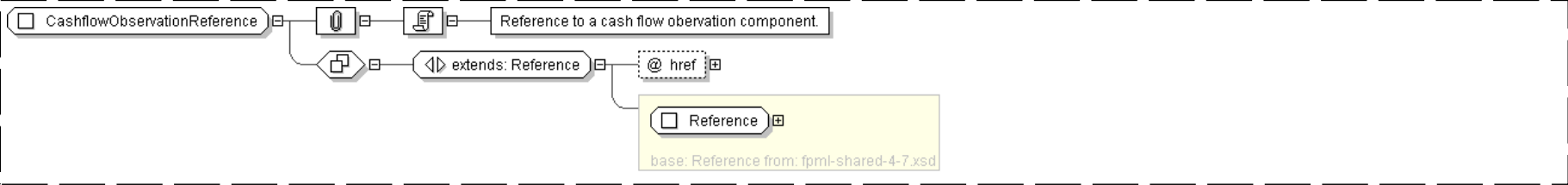
Complex Type: CashflowObservationReference

Super-types:	<a href="#">Reference</a> < <b>CashflowObservationReference</b> (by extension)
Sub-types:	None
Name	CashflowObservationReference
Used by (from the same schema document)	Complex Type <a href="#">CashflowFixing</a>
Abstract	no
Documentation	Reference to a cash flow observation component.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowObservationReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="CashflowObservation"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: DefinePosition

Super-types:	<a href="#">Position</a> < <b>DefinePosition</b> (by extension)
Sub-types:	None
Name	DefinePosition
Used by (from the same schema document)	Complex Type <a href="#">PositionsAsserted</a> , Complex Type <a href="#">PositionsAsserted</a>

Abstract	no
Documentation	A type that allows a position to be defined. It includes identification information (ID and version), trade information, etc.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <positionId> PositionId </positionId> [1]
  'A version-independent identifier for the position, possibly based on trade identifier.'

  <version> xsd:positiveInteger </version> [0..1]
  'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply
  newer versions. There is no requirement that version identifiers for a position be
  sequential or small, so for example timestamp-based version identifiers could be used.'

  <reportingRoles> ReportingRoles </reportingRoles> [0..1]
  'Information about the roles of the parties with respect to reporting the positions.'

  <constituent> PositionConstituent </constituent> [1]
  'The components that create this position.'

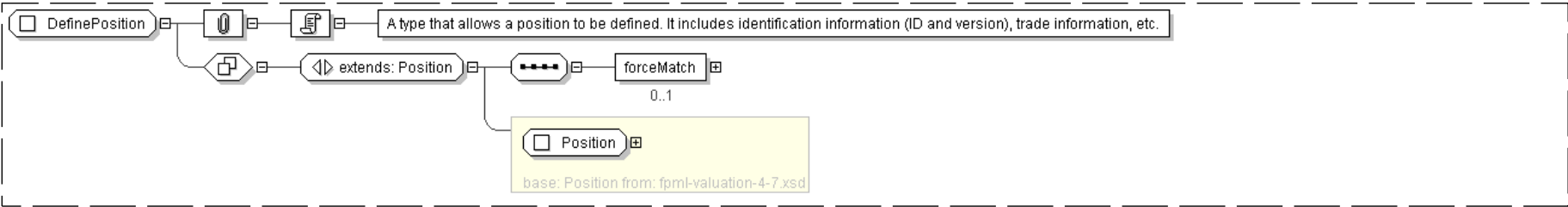
  <scheduledDate> ScheduledDate </scheduledDate> [0..*]
  'Position level schedule date, such as final payment dates, in a simple and flexible format.'

  <valuation> AssetValuation </valuation> [0..*]
  'Valuation reported for the position, such as NPV or accrued interest. The asset/
  object references in the valuations should refer to the deal or components of the deal in
  the position, e.g. legs, streams, or underlyers.'

  <forceMatch> PositionReference </forceMatch> [0..1]
  'An optional reference to a position supplied by the matching party that is known to match
  this one.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DefinePosition">
  <xsd:complexContent>
    <xsd:extension base=" Position ">
      <xsd:sequence>
        <xsd:element name="forceMatch" type=" PositionReference " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Super-types:	None
Sub-types:	None
Name	GrossCashflow
Used by (from the same schema document)	Complex Type <a href="#">CalculationDetails</a> , Complex Type <a href="#">PaymentDetails</a>
Abstract	no
Documentation	A payment component owed from one party to the other for the cash flow date. This payment component should by of only a single type, e.g. a fee or a cashflow from a cashflow stream.

XML Instance Representation

```
<...>
Start Sequence [0..1]
  <cashflowId> CashflowId </cashflowId> [1]
  'Unique identifier for a cash flow.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

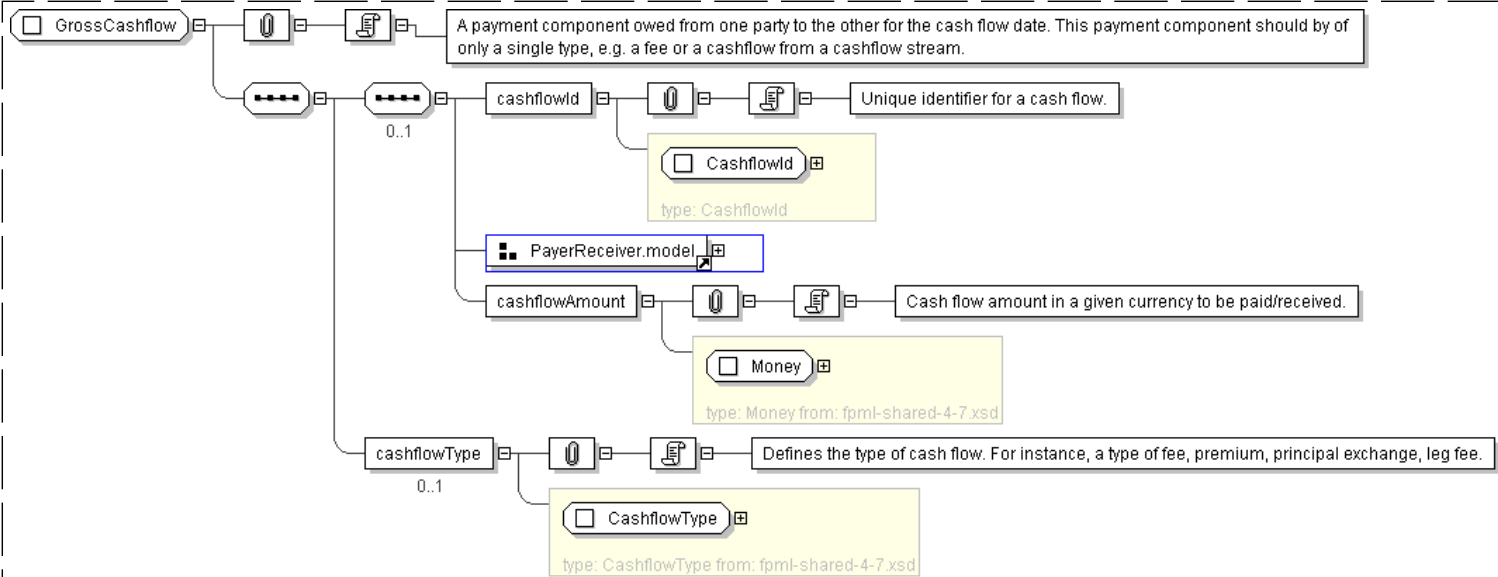
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <cashflowAmount> Money </cashflowAmount> [1]
  'Cash flow amount in a given currency to be paid/received.'

End Sequence
<cashflowType> CashflowType </cashflowType> [0..1]
'Defines the type of cash flow. For instance, a type of fee, premium, principal exchange,
leg fee.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GrossCashflow">
  <xsd:sequence>
    <xsd:sequence minOccurs="0">
```

```
<xsd:element name="cashflowId" type=" CashflowId " />
<xsd:group ref=" PayerReceiver.model " />
<xsd:element name="cashflowAmount" type=" Money " />
</xsd:sequence>
<xsd:element name="cashflowType" type=" CashflowType " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **InitialPortfolioDefinition**

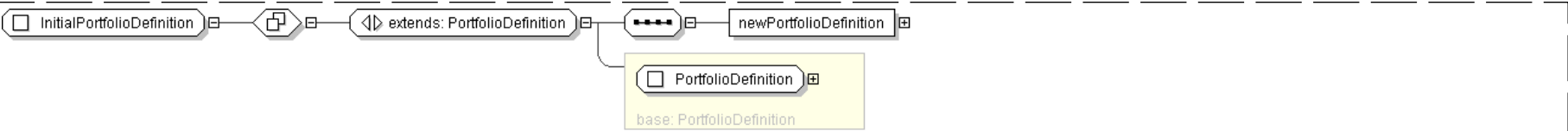
Super-types:	<a href="#">PortfolioDefinition</a> < <b>InitialPortfolioDefinition</b> (by extension)
Sub-types:	None

Name	InitialPortfolioDefinition
Used by (from the same schema document)	Complex Type <a href="#">PositionsAsserted</a>
Abstract	no

XML Instance Representation

```
<...>
<portfolioName> xsd:normalizedString </portfolioName> [1]
<asOfDate> xsd:date </asOfDate> [1]
<definingParty> PartyReference </definingParty> [1]
<matchingParty> PartyReference </matchingParty> [0..1]
<newPortfolioDefinition> xsd:boolean </newPortfolioDefinition> [1]
'Indicates whether it\'s a definition of a new portfolio (true) or an update to an existing one (false).'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InitialPortfolioDefinition">
  <xsd:complexContent>
    <xsd:extension base=" PortfolioDefinition ">
      <xsd:sequence>
        <xsd:element name="newPortfolioDefinition" type=" xsd:boolean " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MatchId**

Super-types:	<a href="#">Scheme</a> < <b>MatchId</b> (by extension)
Sub-types:	None

Name	MatchId
------	---------



Used by (from the same schema document)	Complex Type <a href="#">CancelTradeCashflows</a> , Complex Type <a href="#">PositionProposedMatch</a> , Complex Type <a href="#">TradeCashflowsAsserted</a> , Complex Type <a href="#">TradeCashflowsProposedMatch</a>
Abstract	no
Documentation	An identifier used to identify matched cashflows.

XML Instance Representation

```
<...  
  matchIdScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MatchId">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="matchIdScheme" type=" xsd:anyURI "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **PaymentDetails**

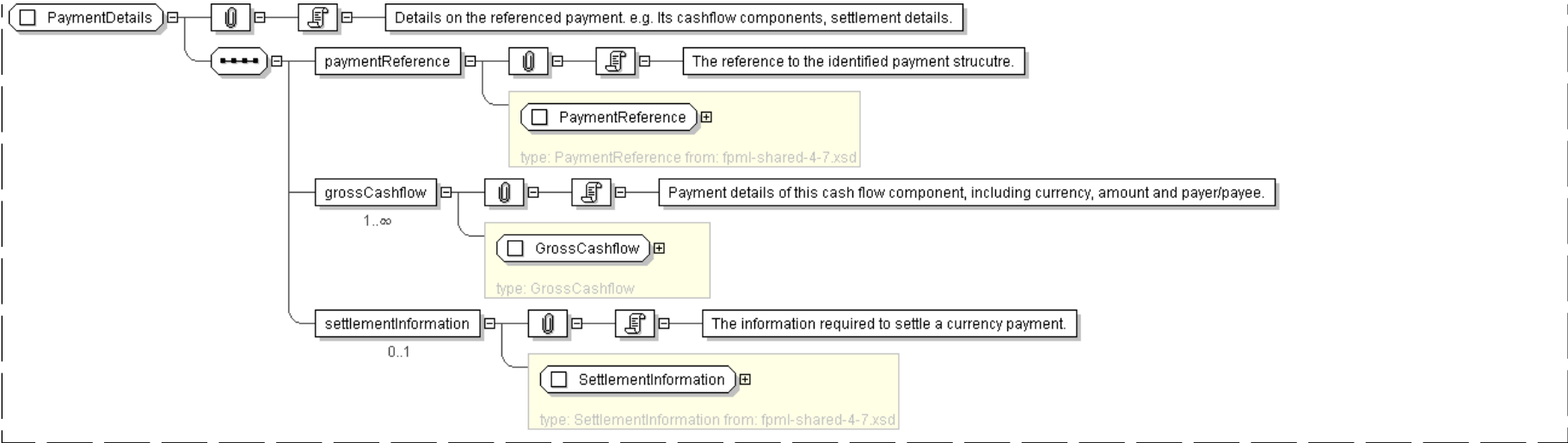
Super-types:	None
Sub-types:	None

Name	PaymentDetails
Abstract	no
Documentation	Details on the referenced payment. e.g. Its cashflow components, settlement details.

XML Instance Representation

```
<...>  
  <paymentReference> PaymentReference </paymentReference> [1]  
  'The reference to the identified payment strucutre.'  
  
  <grossCashflow> GrossCashflow </grossCashflow> [1..*]  
  'Payment details of this cash flow component, including currency, amount and payer/payee.'  
  
  <settlementInformation> SettlementInformation </settlementInformation> [0..1]  
  'The information required to settle a currency payment.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentDetails">
  <xsd:sequence>
    <xsd:element name="paymentReference" type=" PaymentReference " />
    <xsd:element name="grossCashflow" type=" GrossCashflow " maxOccurs="unbounded"/>
    <xsd:element name="settlementInformation" type=" SettlementInformation " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PaymentId**

Super-types:	<a href="#">Scheme</a> < <b>PaymentId</b> (by extension)
Sub-types:	None

Name	PaymentId
Used by (from the same schema document)	Complex Type <a href="#">PaymentMatching</a>
Abstract	no
Documentation	An identifier used to identify a matchable payment.

XML Instance Representation

```
<...
  paymentIdScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="paymentIdScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PaymentMatching**

Super-types:	None
Sub-types:	None

Name	PaymentMatching
Used by (from the same schema document)	Model Group <a href="#">TradeCashflows.model</a>
Abstract	no
Documentation	A global type describing the payment exposed to the matching process, along with its gross component(s) and calculation details.

XML Instance Representation

```
<...>
  <identifier> PaymentId </identifier> [1]
  'Unique identifier assigned by either party or matching service, as agreed, to a payment.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

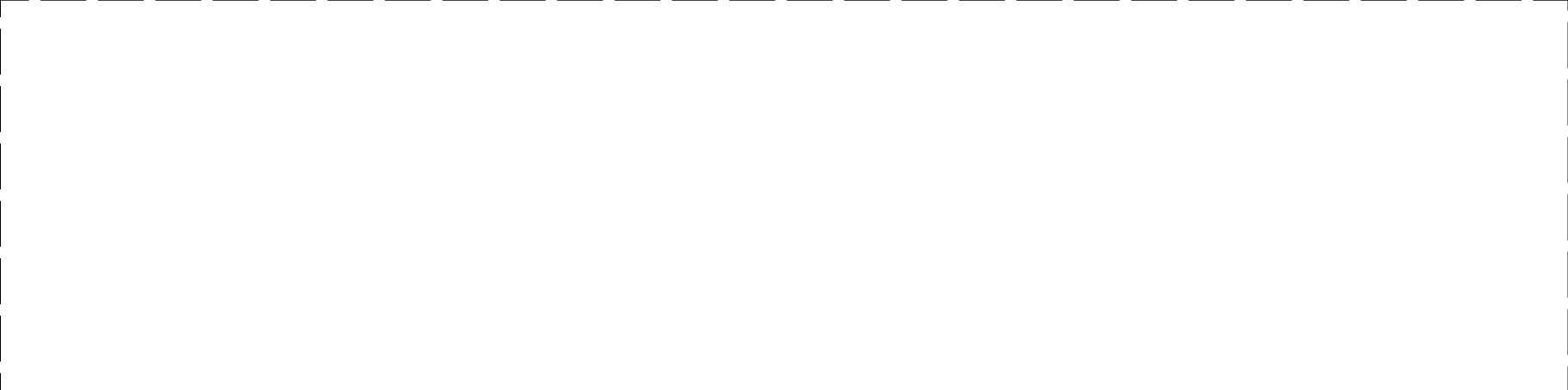
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

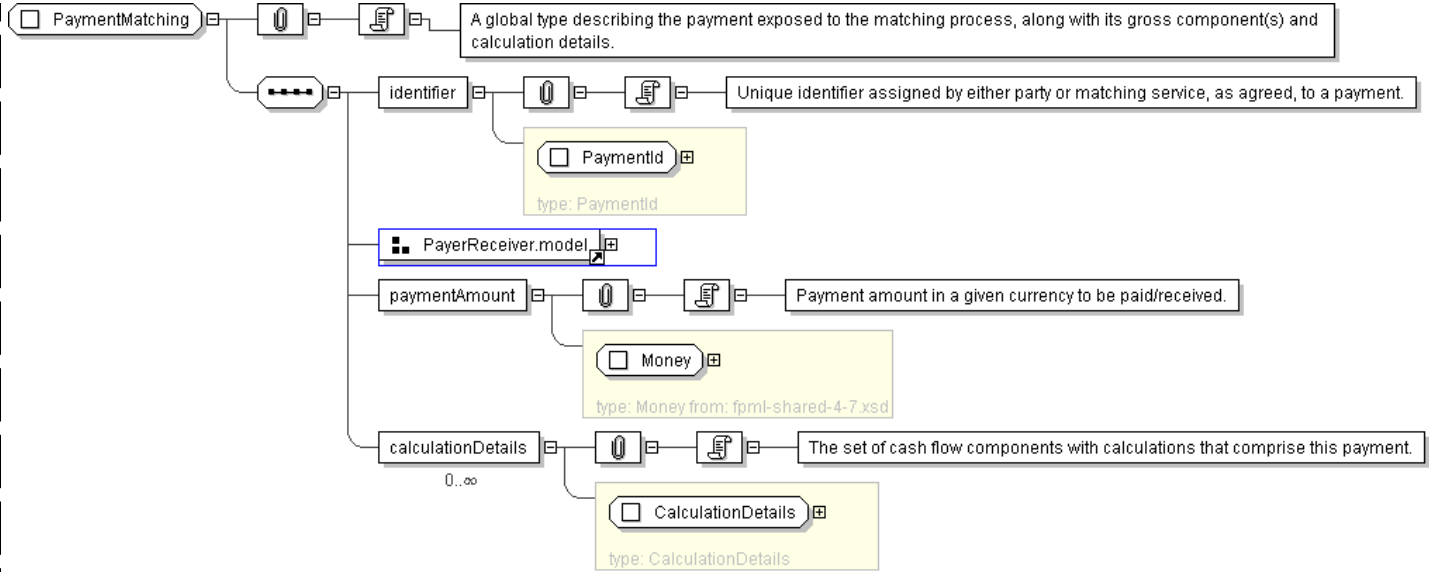
  <paymentAmount> Money </paymentAmount> [1]
  'Payment amount in a given currency to be paid/received.'

  <calculationDetails> CalculationDetails </calculationDetails> [0..*]
  'The set of cash flow components with calculations that comprise this payment.'

</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="PaymentMatching">
  <xsd:sequence>
    <xsd:element name="identifier" type="PaymentId" />
    <xsd:group ref="PayerReceiver.model" />
    <xsd:element name="paymentAmount" type="Money" />
    <xsd:element name="calculationDetails" type="CalculationDetails"
      minOccurs="0" maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PortfolioDefinition**

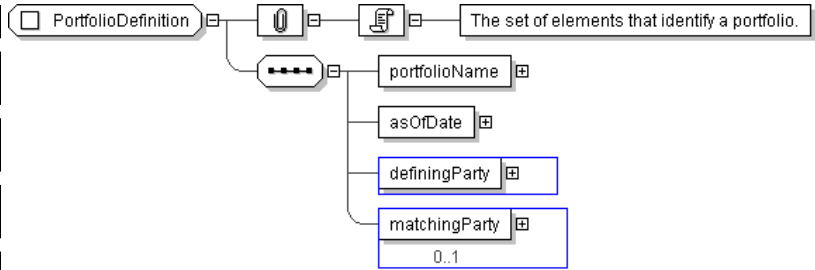
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">InitialPortfolioDefinition</a> (by extension)</li></ul>

Name	PortfolioDefinition
Used by (from the same schema document)	Complex Type <a href="#">PositionsAcknowledged</a> , Complex Type <a href="#">PositionsMatchResults</a>
Abstract	no
Documentation	The set of elements that identify a portfolio.

XML Instance Representation

```
<...>
  <portfolioName> xsd:normalizedString </portfolioName> [1]
  <asOfDate> xsd:date </asOfDate> [1]
  <definingParty> PartyReference </definingParty> [1]
  <matchingParty> PartyReference </matchingParty> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PortfolioDefinition">
  <xsd:sequence>
    <xsd:element name="portfolioName" type="xsd:normalizedString"/>
    <xsd:element name="asOfDate" type="xsd:date"/>
    <xsd:element name="definingParty" type="PartyReference"/>
    <xsd:element name="matchingParty" type="PartyReference" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PositionMatchResult**

Super-types:	None
Sub-types:	None
Name	PositionMatchResult
Used by (from the same schema document)	Complex Type <a href="#">PositionsMatchResults</a>
Abstract	no

XML Instance Representation

```
<...>
  <status> PositionMatchStatus </status> [1]
  'Reconciliation status of the position.'

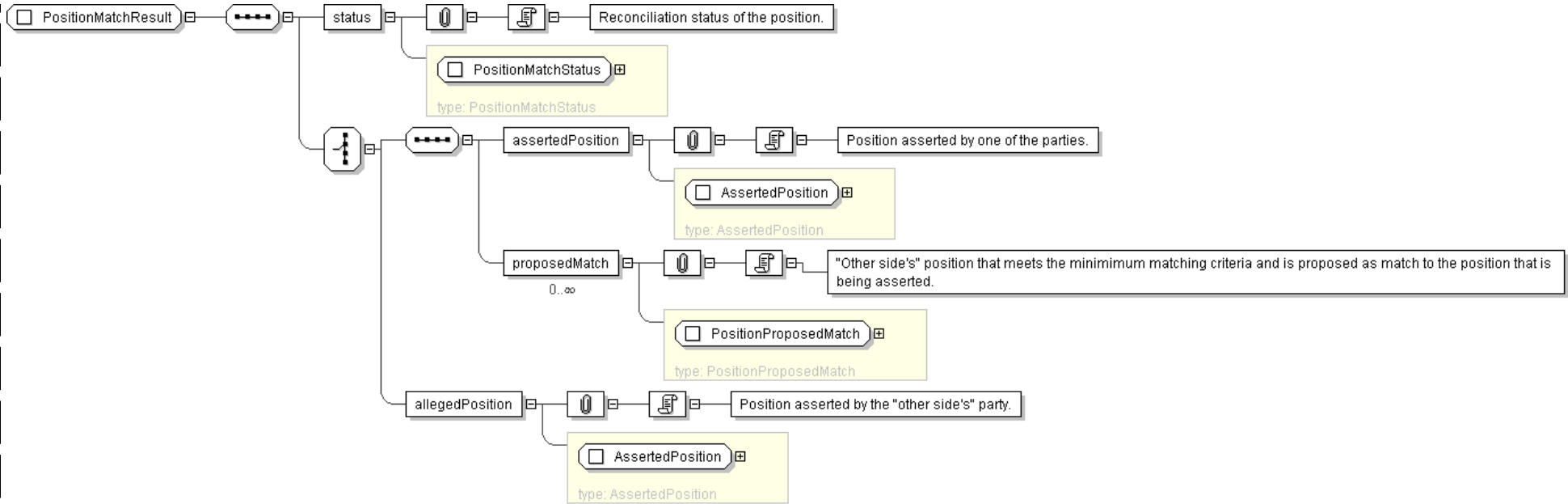
  Start Choice [1]
    <assertedPosition> AssertedPosition </assertedPosition> [1]
    'Position asserted by one of the parties.'

    <proposedMatch> PositionProposedMatch </proposedMatch> [0..*]
    '"Other side\'s" position that meets the minimum matching criteria and is proposed as match to the position that is being asserted.'

    <allegedPosition> AssertedPosition </allegedPosition> [1]
    'Position asserted by the \'other side\'s\' party.'

  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositionMatchResult">
  <xsd:sequence>
    <xsd:element name="status" type=" PositionMatchStatus " />
    <xsd:choice>
      <xsd:sequence>
        <xsd:element name="assertedPosition" type=" AssertedPosition " />
        <xsd:element name="proposedMatch" type=" PositionProposedMatch "
          minOccurs="0" maxOccurs="unbounded" />
      </xsd:sequence>
      <xsd:element name="allegedPosition" type=" AssertedPosition " />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

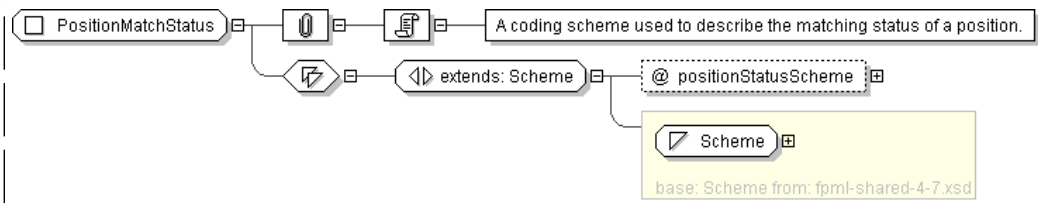
Complex Type: PositionMatchStatus

Super-types:	<a href="#">Scheme</a> < <b>PositionMatchStatus</b> (by extension)
Sub-types:	None
Name	PositionMatchStatus
Used by (from the same schema document)	Complex Type <a href="#">PositionMatchResult</a>
Abstract	no
Documentation	A coding scheme used to describe the matching status of a position.

XML Instance Representation

```
<...
  positionStatusScheme=" xsd:anyURI [0..1]">
    Scheme
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositionMatchStatus">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="positionStatusScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/position-status"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PositionProposedMatch**

Super-types:	None
Sub-types:	None

Name	PositionProposedMatch
Used by (from the same schema document)	Complex Type <a href="#">PositionMatchResult</a>
Abstract	no

XML Instance Representation

```
<...>
  <positionId> PositionId </positionId> [1]
  'A version-independent identifier for the position, possibly based on trade identifier.'

  <version> xsd:positiveInteger </version> [0..1]
  'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply
  newer versions. There is no requirement that version identifiers for a position be
  sequential or small, so for example timestamp-based version identifiers could be used.'

  Start Group: PositionWithoutId.model [0..1]
    <reportingRoles> ReportingRoles </reportingRoles> [0..1]
    'Information about the roles of the parties with respect to reporting the positions.'

    <constituent> PositionConstituent </constituent> [1]
    'The components that create this position.'

    <scheduledDate> ScheduledDate </scheduledDate> [0..*]
    'Position level schedule date, such as final payment dates, in a simple and flexible format.'

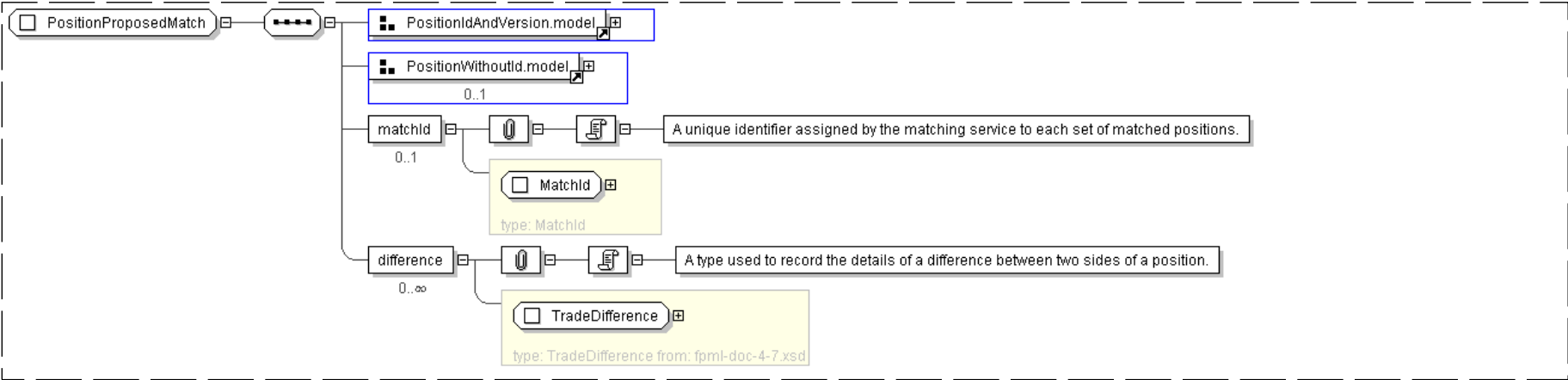
    <valuation> AssetValuation </valuation> [0..*]
    'Valuation reported for the position, such as NPV or accrued interest. The asset/
    object references in the valuations should refer to the deal or components of the deal in
    the position, e.g. legs, streams, or underlyers.'

  End Group: PositionWithoutId.model

  <matchId> MatchId </matchId> [0..1]
  'A unique identifier assigned by the matching service to each set of matched positions.'
```

```
<difference> TradeDifference </difference> [0..*]  
'A type used to record the details of a difference between two sides of a position.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositionProposedMatch">  
  <xsd:sequence>  
    <xsd:group ref=" PositionIdAndVersion.model " />  
    <xsd:group ref=" PositionWithoutId.model " minOccurs="0"/>  
    <xsd:element name="matchId" type=" MatchId " minOccurs="0"/>  
    <xsd:element name="difference" type=" TradeDifference " minOccurs="0" maxOccurs="unbounded"/>  
  </xsd:sequence>  
</xsd:complexType>
```

[top](#)

Complex Type: **PositionReference**

Super-types:	None
Sub-types:	None

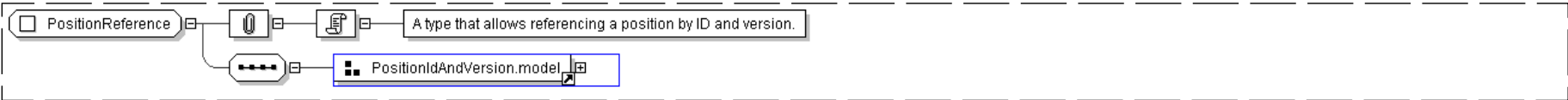
Name	PositionReference
Used by (from the same schema document)	Complex Type <a href="#">DefinePosition</a> , Complex Type <a href="#">PositionsAcknowledged</a> , Complex Type <a href="#">PositionsAcknowledged</a> , Complex Type <a href="#">PositionsAsserted</a>
Abstract	no
Documentation	A type that allows referencing a position by ID and version.

XML Instance Representation

```
<...>  
  <positionId> PositionId </positionId> [1]  
  'A version-independent identifier for the position, possibly based on trade identifier.'  
  
  <version> xsd:positiveInteger </version> [0..1]  
  'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply  
  newer versions. There is no requirement that version identifiers for a position be  
  sequential or small, so for example timestamp-based version identifiers could be used.'  
  
</...>
```



Diagram



Schema Component Representation

```
<xsd:complexType name="PositionReference">
  <xsd:sequence>
    <xsd:group ref="PositionIdAndVersion.model" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PositionsAcknowledged**

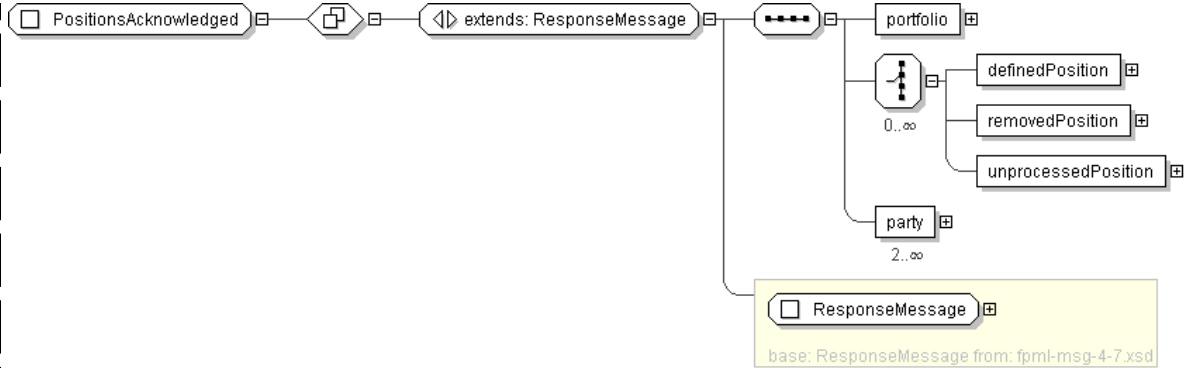
Super-types:	<a href="#">ResponseMessage</a> < <b>PositionsAcknowledged</b> (by extension)
Sub-types:	None

Name	PositionsAcknowledged
Abstract	no

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
  ">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <portfolio> PortfolioDefinition </portfolio> [1]
  'Contains the portfolio definition.'
  Start Choice [0..*]
    <definedPosition> PositionReference </definedPosition> [1]
    <removedPosition> PositionReference </removedPosition> [1]
    <unprocessedPosition> UnprocessedPosition </unprocessedPosition> [1]
  End Choice
  <party> Party </party> [2..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositionsAcknowledged">
  <xsd:complexContent>
    <xsd:extension base="ResponseMessage">
      <xsd:sequence>
        <xsd:element name="portfolio" type="PortfolioDefinition"/>
        <xsd:choice minOccurs="0" maxOccurs="unbounded">
          <xsd:element name="definedPosition" type="PositionReference"/>
          <xsd:element name="removedPosition" type="PositionReference"/>
          <xsd:element name="unprocessedPosition" type="UnprocessedPosition"/>
        </xsd:choice>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PositionsAsserted**

Super-types:	<a href="#">RequestMessage</a> < <b>PositionsAsserted</b> (by extension)
Sub-types:	None

Name	PositionsAsserted
Abstract	no
Documentation	Request that a portfolio be defined, either by replacing any pre-existing definition, or by updating or removing individual positions.

XML Instance Representation

```
<...
version="xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]"
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild="xsd:positiveInteger [0..1]"
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]"
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version
```

(e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

 $\vdash$ 

```
<header> RequestMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<portfolio> InitialPortfolioDefinition </portfolio> [1]
```

'Contains the portfolio definition.'

```
<submissionsComplete> xsd:boolean </submissionsComplete> [1]
```

*'Indicates whether all portfolio updates have been submitted for this as-of date'*

```
Start Choice [1]
```

'Either start from scratch and define new positions, or just update and remove positions'

```
<replaceAllPositions> Empty </replaceAllPositions> [1]
'Indicates that this message replaces all previous positions for this portfolio.'
```

```
<definePosition> DefinePosition </definePosition> [1..*]  
'Used to specify a new position.'
```

```
| Start Choice [0..*]
```

```
<definePosition> DefinePosition </definePosition> [1]
'Used to specify a position, whether it is a new or updated position.'
```

```
<removePosition> PositionReference </removePosition> [1]
```

*'Used to remove a position from the portfolio.'*

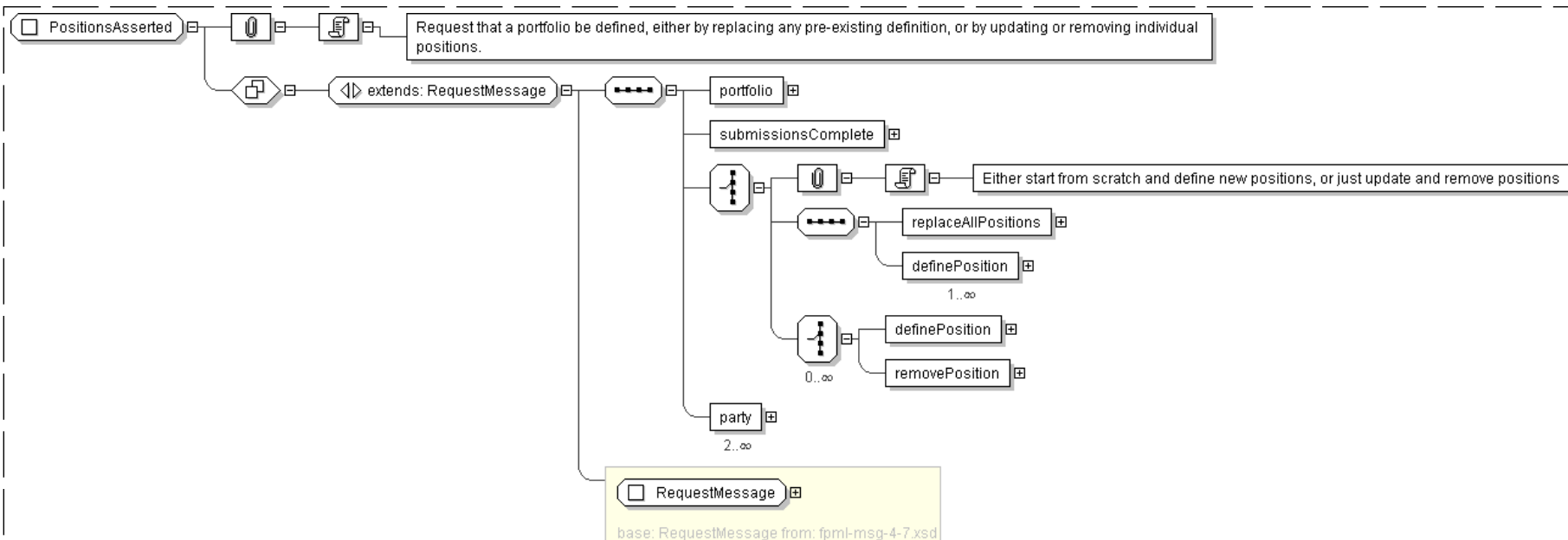
End Choice

End Choice

```
<party> Party </party> [2..*]
```

 $\langle \dots \rangle$ 

### Diagram



Schema Component Representation

```
<xsd:complexType name="PositionsAsserted">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage " >
      <xsd:sequence>
        <xsd:element name="portfolio" type=" InitialPortfolioDefinition " />
        <xsd:element name="submissionsComplete" type=" xsd:boolean " />
        <xsd:choice>
          <xsd:sequence>
            <xsd:element name="replaceAllPositions" type=" Empty " />
            <xsd:element name="definePosition" type=" DefinePosition " maxOccurs="unbounded" />
          </xsd:sequence>
          <xsd:choice minOccurs="0" maxOccurs="unbounded">
            <xsd:element name="definePosition" type=" DefinePosition " />
            <xsd:element name="removePosition" type=" PositionReference " />
          </xsd:choice>
        </xsd:choice>
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PositionsMatchResults**

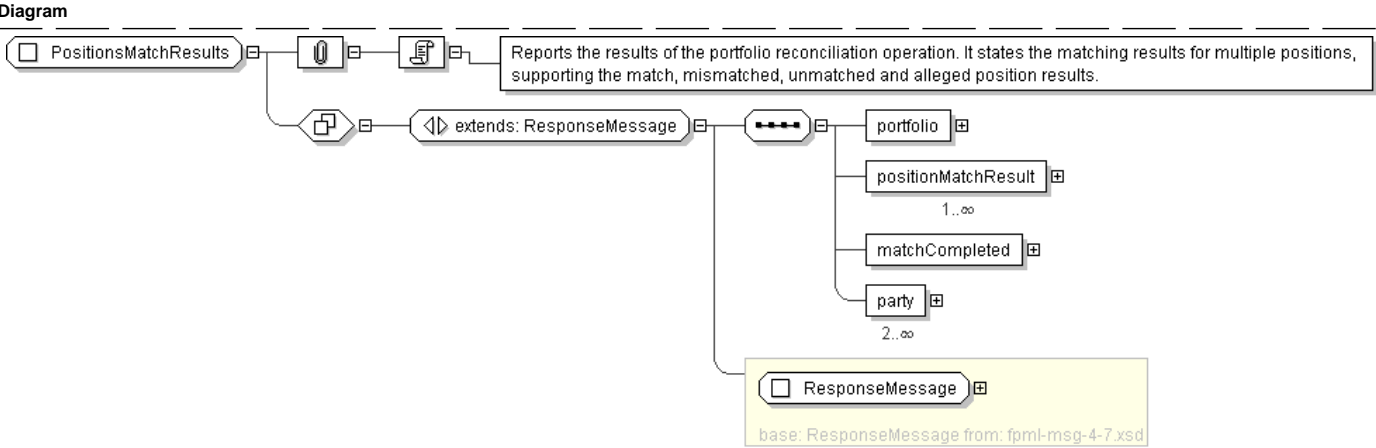
Super-types:	<a href="#">ResponseMessage</a> < <b>PositionsMatchResults</b> (by extension)
Sub-types:	None
Name	PositionsMatchResults
Abstract	no
Documentation	Reports the results of the portfolio reconciliation operation. It states the matching results for multiple positions, supporting the match, mismatched, unmatched and alleged position results.

XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
  ">
  <header> ResponseMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <portfolio> PortfolioDefinition </portfolio> [1]
  'Contains the portfolio definition.'
```

```
<positionMatchResult> PositionMatchResult </positionMatchResult> [1..*]
<matchCompleted> xsd:boolean </matchCompleted> [1]
'Flag indicating whether the Matching Service has finished sending all matching results.'

<party> Party </party> [2..*]
</...>
```



Schema Component Representation

```
<xsd:complexType name="PositionsMatchResults">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage " />
    <xsd:sequence>
      <xsd:element name="portfolio" type=" PortfolioDefinition " />
      <xsd:element name="positionMatchResult" type=" PositionMatchResult " maxOccurs="unbounded" />
      <xsd:element name="matchCompleted" type=" xsd:boolean " />
      <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: RequestPortfolio

Super-types:	<a href="#">RequestMessage</a> < <b>RequestPortfolio</b> (by extension)
Sub-types:	None
Name	RequestPortfolio
Abstract	no
Documentation	A type defining the content model for a message requesting a portfolio (for reconciliation purposes).

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'

"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
```

```
'specify which build number of the schema was used to define the message when it was generated.'
```

```
"
```

```
actualBuild="5 [0..1]
```

```
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
```

```
">
```

```
<header> RequestMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<asOfDate> ... </asOfDate> [0..1]
```

```
'The date for which this request desires positions and valuations.'
```

```
Start Choice [1]
```

```
<portfolioName> xsd:normalizedString </portfolioName> [1]
```

```
'The name of the portfolio that is requested.'
```

```
<requestedPositions> RequestedPositions </requestedPositions> [1]
```

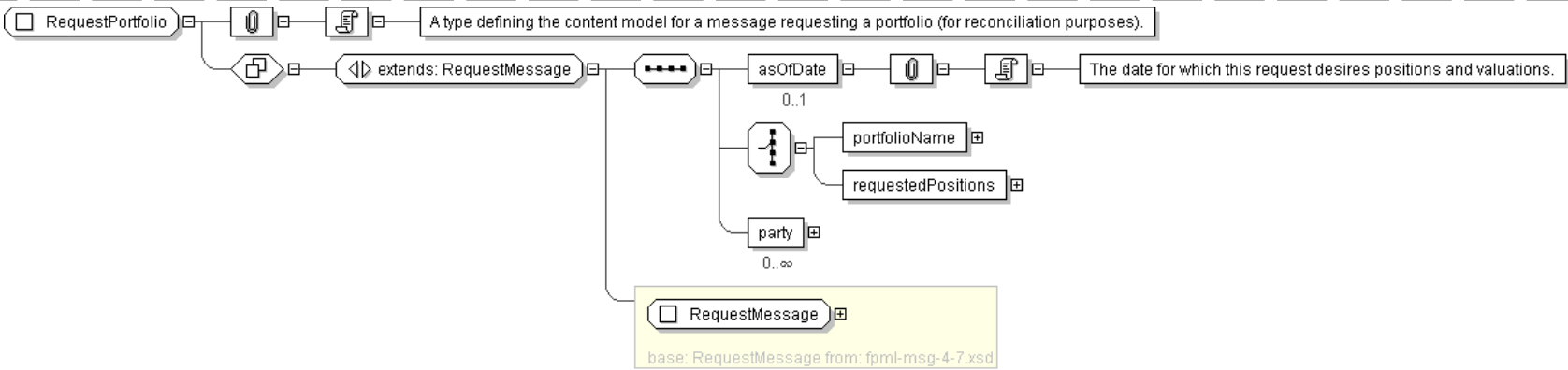
```
'The name of the data set (portfolio, product type, etc.) that this request corresponds to. Describes the desired report.'
```

```
End Choice
```

```
<party> Party </party> [0..*]
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestPortfolio">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage " />
    <xsd:sequence>
      <xsd:element name="asOfDate" minOccurs="0"/>
      <xsd:choice>
        <xsd:element name="portfolioName" type=" xsd:normalizedString "/>
        <xsd:element name="requestedPositions" type=" RequestedPositions "/>
      </xsd:choice>
      <xsd:element name="party" type=" Party " minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **StepReference**

Super-types:	<a href="#">Reference</a> < <b>StepReference</b> (by extension)
Sub-types:	None
Name	StepReference
Used by (from the same schema document)	Complex Type <a href="#">CashflowCalculationPeriod</a>
Abstract	no
Documentation	Reference to a Schedule's Step.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StepReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference" >  
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Step"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **TradeCashflowsAsserted**

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeCashflowsAsserted</b> (by extension)
Sub-types:	None
Name	TradeCashflowsAsserted
Abstract	no
Documentation	Message for assertion of payments to be reconciled. Notification message that submits cashflows that need to be reconciled per payment date at the trade level.

XML Instance Representation

```
<...  
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
  
'Indicate which version of the FpML Schema an FpML message adheres to.'  
"  
expectedBuild=" xsd:positiveInteger [0..1]  
  
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
```

```
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
```

```
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<asOfDate> xsd:dateTime </asOfDate> [0..1]
'The date and time at which the set of cashflows was defined.'
```

```
<tradeCashflowsId> TradeCashflowsId </tradeCashflowsId> [1]
'Unique identifier assigned by the party asserting the set of cashflows to be reconciled.'
```

```
<tradeIdentifyingItems> TradeIdentifyingItems </tradeIdentifyingItems> [1]
'Structure that holds reference to the trade through the tradeId and optionally some
trade-specific elements for identifying the trade in the case of trades that have not
been negotiated through electronic platforms and for which the counterparty\'s trade ID has
not been captured.'
```

```
<adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
'The adjusted date in which the payments are being paid/received.'
```

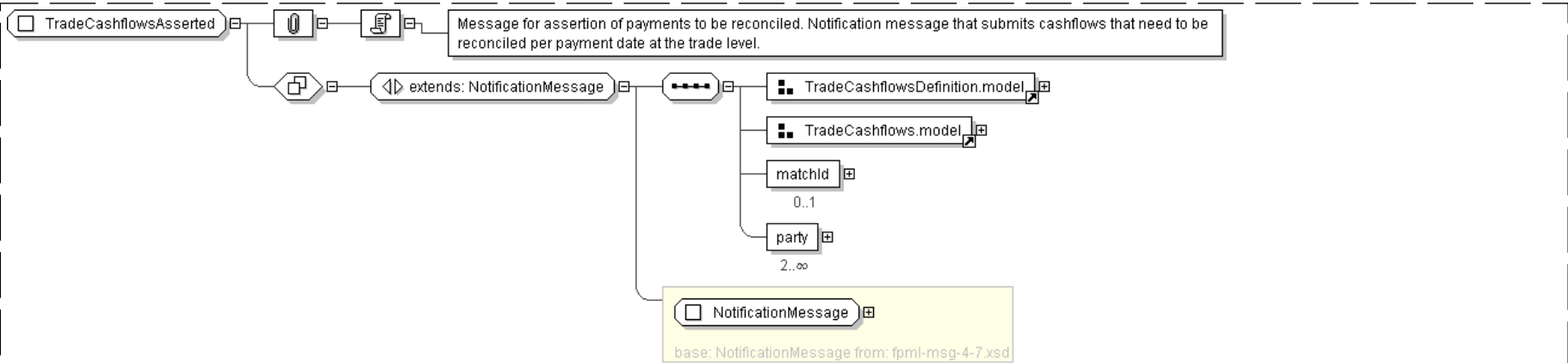
```
<payment> PaymentMatching </payment> [1..*]
'Specifies the payment that is exposed to the matching process. Usually there will be a
single payment but for cross-currency swaps a different payment per currency shall be provided.'
```

```
<matchId> MatchId </matchId> [0..1]
'A unique identifier assigned by either party, or matching service, as agreed, to each set
of matched cashflows.'
```

```
<party> Party </party> [2..*]
'One party element for each of the principal parties and any other party that is referenced.'
```

```
</...>
```

Diagram



Schema Component Representation



```
<xsd:complexType name="TradeCashflowsAsserted">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:group ref=" TradeCashflowsDefinition.model "/">
          <xsd:group ref=" TradeCashflows.model "/">
            <xsd:element name="matchId" type=" MatchId " minOccurs="0"/>
            <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded"/>
          </xsd:group>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
```

[top](#)

Complex Type: TradeCashflowsId

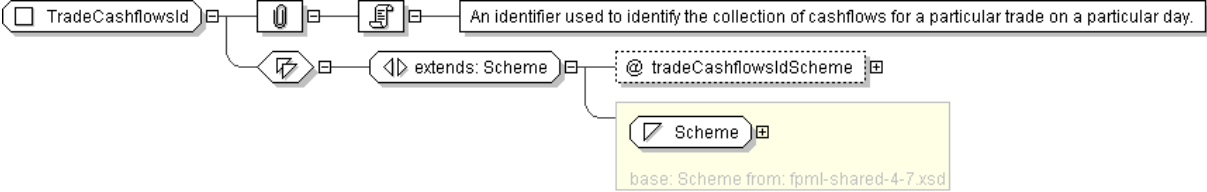
Super-types:	<a href="#">Scheme</a> < TradeCashflowsId (by extension)
Sub-types:	None

Name	TradeCashflowsId
Used by (from the same schema document)	Model Group <a href="#">IdAndTradeCashflows.model</a> , Model Group <a href="#">TradeCashflowsDefinition.model</a>
Abstract	no
Documentation	An identifier used to identify the collection of cashflows for a particular trade on a particular day.

XML Instance Representation

```
<...
tradeCashflowsIdScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeCashflowsId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme ">
      <xsd:attribute name="tradeCashflowsIdScheme" type=" xsd:anyURI "/">
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeCashflowsMatchResult

Super-types:	<a href="#">ResponseMessage</a> < TradeCashflowsMatchResult (by extension)
Sub-types:	None

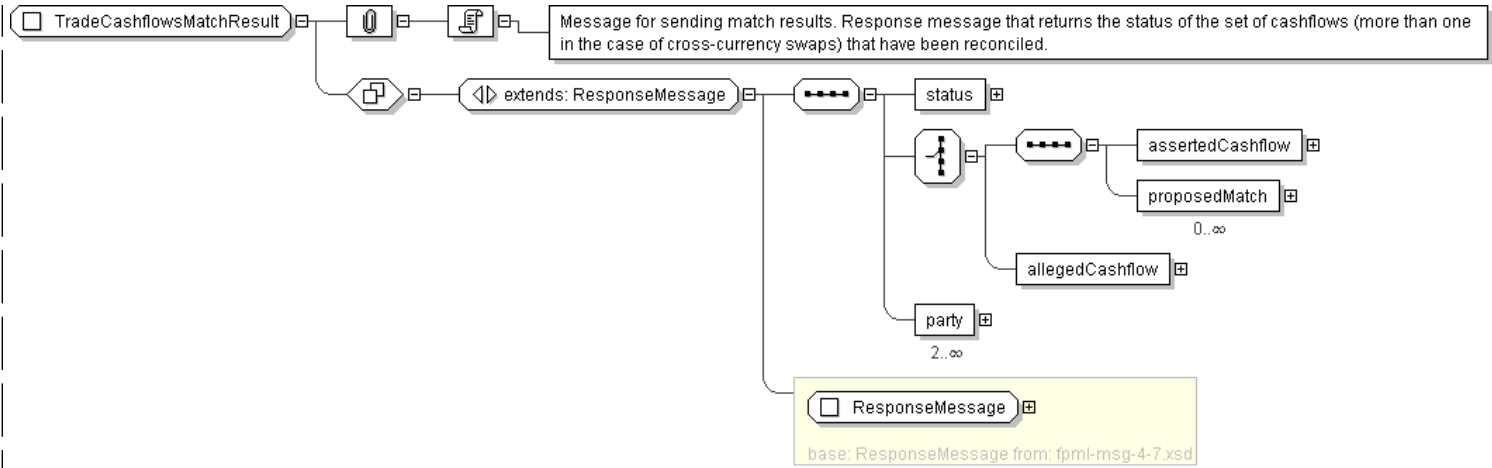
Name	TradeCashflowsMatchResult
------	---------------------------

Abstract	no
Documentation	Message for sending match results. Response message that returns the status of the set of cashflows (more than one in the case of cross-currency swaps) that have been reconciled.

XML Instance Representation

```
<...  
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]  
  'Indicate which version of the FpML Schema an FpML message adheres to.'  
  "  
  expectedBuild=" xsd:positiveInteger [0..1]  
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'  
  "  
  actualBuild="5 [0..1]  
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'  
  ">  
  <header> ResponseMessageHeader </header> [1]  
  <validation> Validation </validation> [0..*]  
  <status> TradeCashflowsStatus </status> [1]  
  'Reconciliation status of the set of cashflows.'  
  Start Choice [1]  
    <assertedCashflow> AssertedCashflow </assertedCashflow> [1]  
    'Cashflow (or set of cashflows for cross-currency swap) asserted by one of the parties.'  
    <proposedMatch> TradeCashflowsProposedMatch </proposedMatch> [0..*]  
    '"Other side\'s" cashflow that meets the minimum matching criteria and is proposed as match to the cashflow that is being asserted.'  
    <allegedCashflow> AllegedCashflow </allegedCashflow> [1]  
    'Cashflow (or set of cashflows for cross-currency swap) asserted by the \'other side\'s \\' party.'  
  End Choice  
  <party> Party </party> [2..*]  
  'One party element for each of the principal parties and any other party that is referenced.'  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeCashflowsMatchResult">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage " />
    <xsd:sequence>
      <xsd:element name="status" type=" TradeCashflowsStatus " />
      <xsd:choice>
        <xsd:sequence>
          <xsd:element name="assertedCashflow" type=" AssertedCashflow " />
          <xsd:element name="proposedMatch" type=" TradeCashflowsProposedMatch "
            minOccurs="0" maxOccurs="unbounded" />
        </xsd:sequence>
        <xsd:element name="allegedCashflow" type=" AllegedCashflow " />
      </xsd:choice>
      <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: TradeCashflowsProposedMatch

Super-types:	None
Sub-types:	None
Name	TradeCashflowsProposedMatch
Used by (from the same schema document)	Complex Type <a href="#">TradeCashflowsMatchResult</a>
Abstract	no
Documentation	"Other side's" cashflow that meets the minimum matching criteria and is proposed as match to the cash flow that is being asserted.

XML Instance Representation

```
<...>
  <tradeCashflowsId> TradeCashflowsId </tradeCashflowsId> [1]
  'Unique identifier assigned by either party to a set of cashflows.'

  Start Group: TradeCashflows.model [0..1]
    <tradeIdentifyingItems> TradeIdentifyingItems </tradeIdentifyingItems> [1]
    'Structure that holds reference to the trade through the tradeId and optionally some
    trade-specific elements for identifying the trade in the case of trades that have not
```

```
been negotiated through electronic platforms and for which the counterparty's trade ID has
not been captured.'
```

```
<adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
'The adjusted date in which the payments are being paid/received.'
```

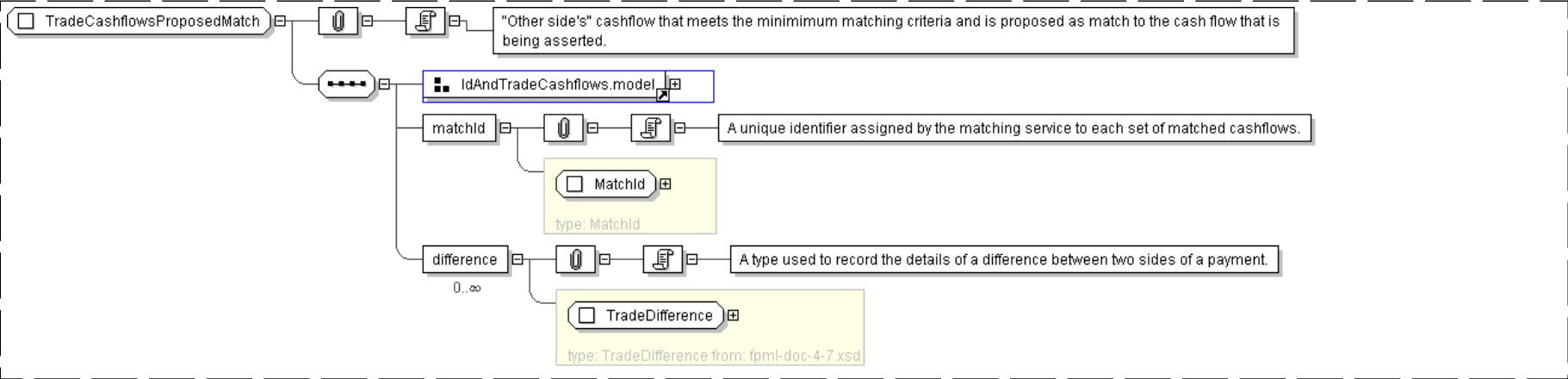
```
<payment> PaymentMatching </payment> [1..*]
'Specifies the payment that is exposed to the matching process. Usually there will be a
single payment but for cross-currency swaps a different payment per currency shall be provided.'
```

```
End Group: TradeCashflows.model
<matchId> MatchId </matchId> [1]
'A unique identifier assigned by the matching service to each set of matched cashflows.'
```

```
<difference> TradeDifference </difference> [0..*]
'A type used to record the details of a difference between two sides of a payment.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeCashflowsProposedMatch">
  <xsd:sequence>
    <xsd:group ref=" IdAndTradeCashflows.model " />
    <xsd:element name="matchId" type=" MatchId " />
    <xsd:element name="difference" type=" TradeDifference " minOccurs="0" maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

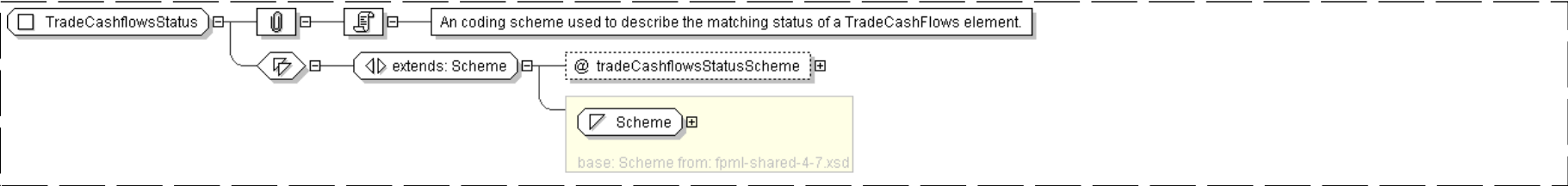
Complex Type: **TradeCashflowsStatus**

Super-types:	<a href="#">Scheme</a> < <b>TradeCashflowsStatus</b> (by extension)
Sub-types:	None
Name	TradeCashflowsStatus
Used by (from the same schema document)	Complex Type <a href="#">TradeCashflowsMatchResult</a>
Abstract	no
Documentation	An coding scheme used to describe the matching status of a TradeCashFlows element.

XML Instance Representation

```
<...  
tradeCashflowsStatusScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeCashflowsStatus">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="tradeCashflowsStatusScheme" type=" xsd:anyURI " default="http://www.  
        fpml.org/coding-scheme/trade-cashflows-status"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: TradeDetails

Super-types:	None
Sub-types:	None
Name	TradeDetails
Used by (from the same schema document)	Complex Type <a href="#">TradIdentifyingItems</a>
Abstract	no
Documentation	Summary trade economic details used to help identify a trade where no shared trade ID is available.

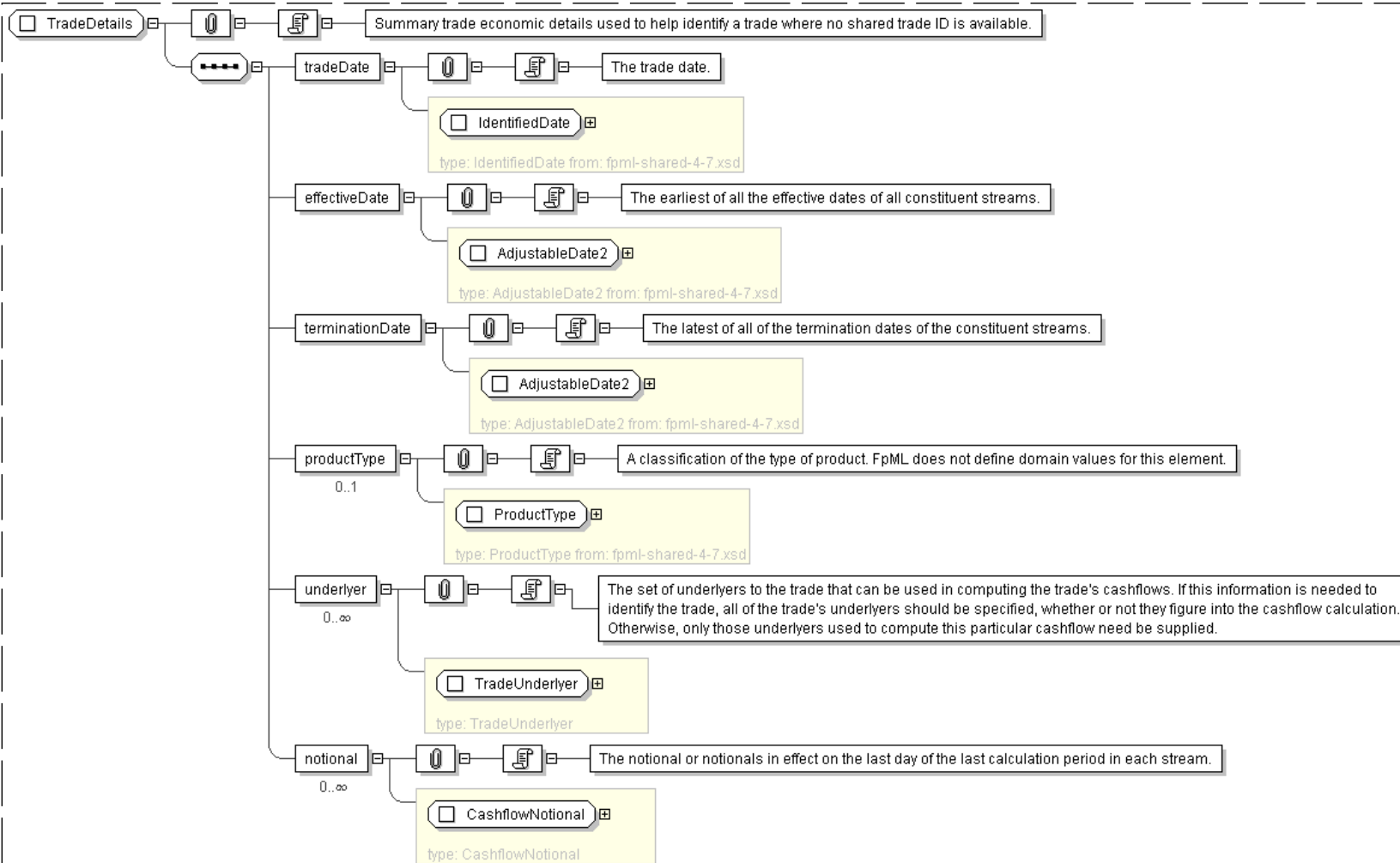
XML Instance Representation

```
<...>  
  <tradeDate> IdentifiedDate </tradeDate> [1]  
  'The trade date.'  
  
  <effectiveDate> AdjustableDate2 </effectiveDate> [1]  
  'The earliest of all the effective dates of all constituent streams.'  
  
  <terminationDate> AdjustableDate2 </terminationDate> [1]  
  'The latest of all of the termination dates of the constituent streams.'  
  
  <productType> ProductType </productType> [0..1]  
  'A classification of the type of product. FpML does not define domain values for this element.'  
  
  <underlyer> TradeUnderlyer </underlyer> [0..*]  
  'The set of underlyers to the trade that can be used in computing the trade\'s cashflows.  
  If this information is needed to identify the trade, all of the trade\'s underlyers should  
  be specified, whether or not they figure into the cashflow calculation. Otherwise, only  
  those underlyers used to compute this particular cashflow need be supplied.'  
  
  <notional> CashflowNotional </notional> [0..*]
```

'The notional or notionals in effect on the last day of the last calculation period in each stream.'

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeDetails">
  <xsd:sequence>
    <xsd:element name="tradeDate" type="IdentifiedDate" />
    <xsd:element name="effectiveDate" type="AdjustableDate2" />
    <xsd:element name="terminationDate" type="AdjustableDate2" />
    <xsd:element name="productType" type="ProductType" minOccurs="0"/>
    <xsd:element name="underlyer" type="TradeUnderlyer" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="notional" type="CashflowNotional" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
  
```

Complex Type: TradeIdentifyingItems

Super-types:	None
Sub-types:	None
Name	TradeIdentifyingItems
Used by (from the same schema document)	Model Group <a href="#">TradeCashflows.model</a>
Abstract	no
Documentation	Data elements that can be used to identify the trade for which cashflows are being communicated. This includes both explicit trade identifiers and summary economic details.

XML Instance Representation

<...>

<partyTradeIdentifier> [PartyTradeIdentifier](#) </partyTradeIdentifier> [1..\*]

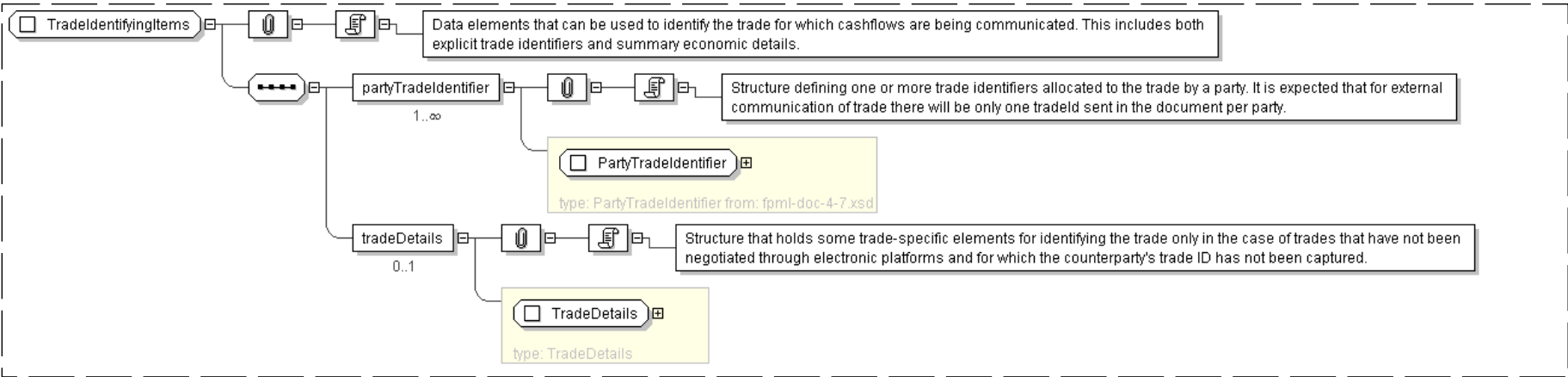
'Structure defining one or more trade identifiers allocated to the trade by a party. It is expected that for external communication of trade there will be only one tradeId sent in the document per party.'

<tradeDetails> [TradeDetails](#) </tradeDetails> [0..1]

'Structure that holds some trade-specific elements for identifying the trade only in the case of trades that have not been negotiated through electronic platforms and for which the counterparty's trade ID has not been captured.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeIdentifyingItems">
  <xsd:sequence>
    <xsd:element name="partyTradeIdentifier" type="PartyTradeIdentifier" maxOccurs="unbounded"/>
    <xsd:element name="tradeDetails" type="TradeDetails" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: TradeUnderlyer

Super-types:	None
Sub-types:	None

Name	TradeUnderlyer
Used by (from the same schema document)	Complex Type <a href="#">CashflowCalculationElements</a> , Complex Type <a href="#">TradeDetails</a>
Abstract	no
Documentation	The underlying asset/index/reference price etc. whose rate/price may be observed to compute the value of the cashflow. It can be an index, fixed rate, listed security, quoted currency pair, or a reference entity (for credit derivatives).

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <floatingRate> FloatingRate </floatingRate> [1]
  'A floating rate.'

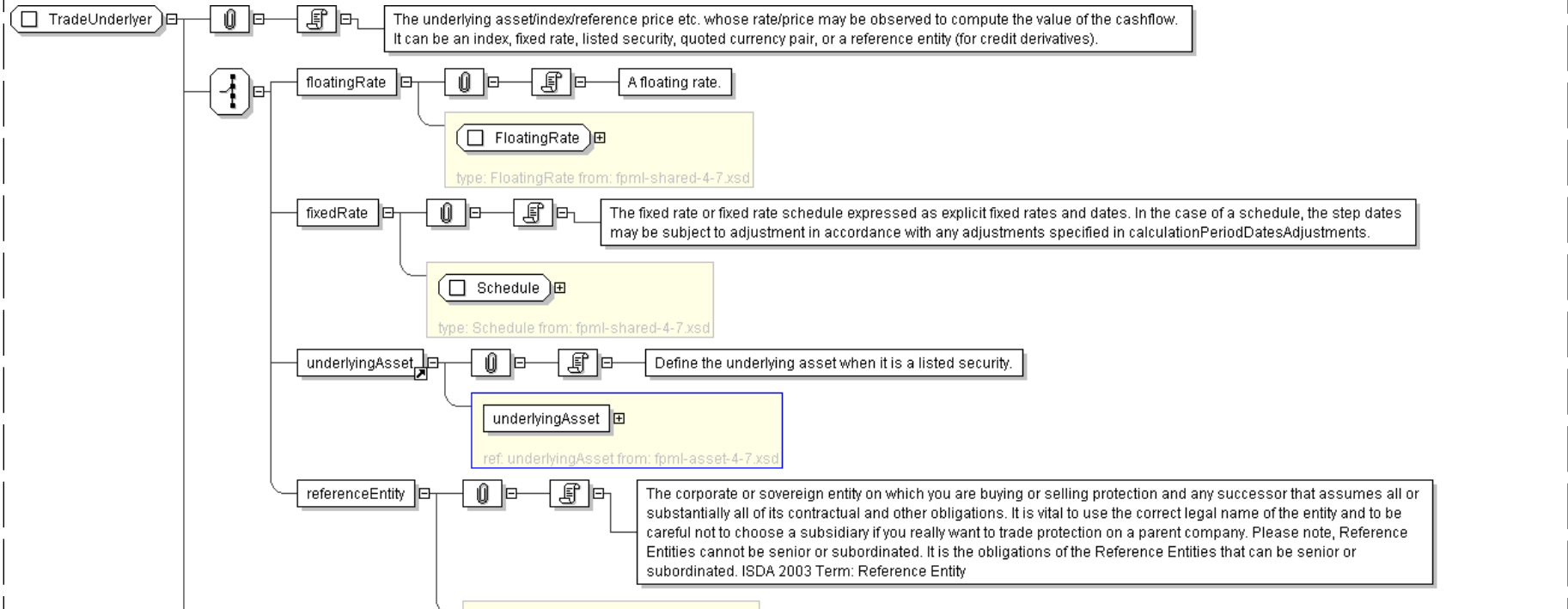
  <fixedRate> Schedule </fixedRate> [1]
  'The fixed rate or fixed rate schedule expressed as explicit fixed rates and dates. In the
  case of a schedule, the step dates may be subject to adjustment in accordance with
  any adjustments specified in calculationPeriodDatesAdjustments.'

  <underlyingAsset> ... </underlyingAsset> [1]
  'Define the underlying asset when it is a listed security.'

  <referenceEntity> LegalEntity </referenceEntity> [1]
  'The corporate or sovereign entity on which you are buying or selling protection and
  any successor that assumes all or substantially all of its contractual and other
  obligations. It is vital to use the correct legal name of the entity and to be careful not
  to choose a subsidiary if you really want to trade protection on a parent company. Please
  note, Reference Entities cannot be senior or subordinated. It is the obligations of
  the Reference Entities that can be senior or subordinated. ISDA 2003 Term: Reference Entity'

End Choice
</...>
```

Diagram







Schema Component Representation

```
<xsd:complexType name="TradeUnderlyer">
  <xsd:choice>
    <xsd:element name="floatingRate" type=" FloatingRate " />
    <xsd:element name="fixedRate" type=" Schedule " />
    <xsd:element ref="@ underlyingAsset " />
    <xsd:element name="referenceEntity" type=" LegalEntity " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: TradeUnderlyerReference

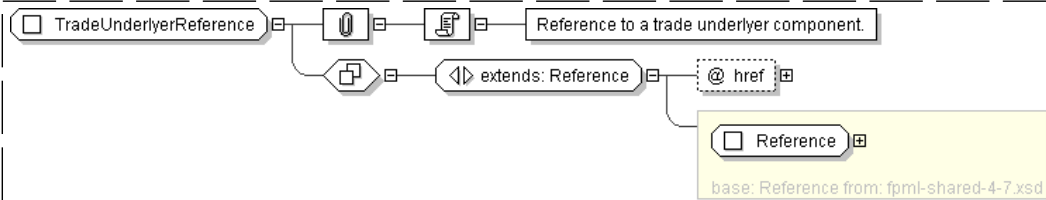
Super-types:	<a href="#">Reference</a> < <b>TradeUnderlyerReference</b> (by extension)
Sub-types:	None

Name	TradeUnderlyerReference
Used by (from the same schema document)	Complex Type <a href="#">CashflowObservation</a> , Complex Type <a href="#">UnderlyerReferenceUnits</a>
Abstract	no
Documentation	Reference to a trade underlyer component.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeUnderlyerReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="TradeUnderlyer" />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: UnderlyerReferenceUnits

Super-types:	None
--------------	------

Sub-types:	None
Name	UnderlyerReferenceUnits
Used by (from the same schema document)	Complex Type <a href="#">CashflowCalculationElements</a>
Abstract	no

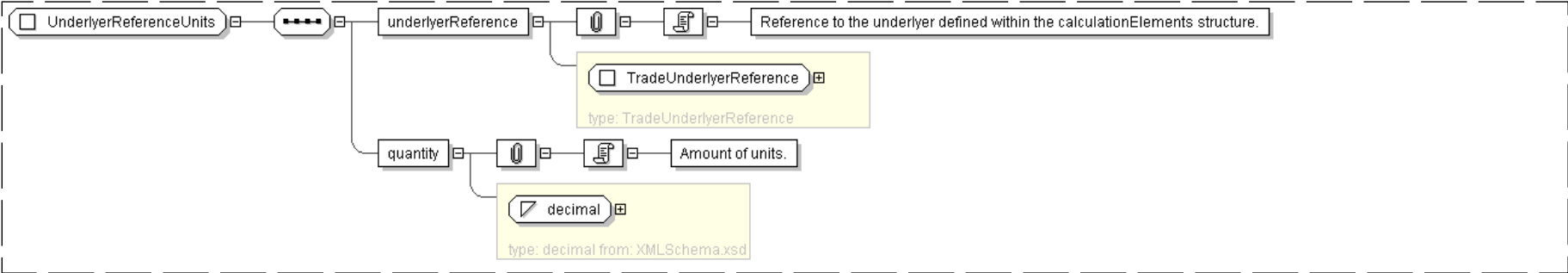
XML Instance Representation

```
<...>
  <underlyerReference> TradeUnderlyerReference </underlyerReference> [1]
  'Reference to the underlyer defined within the calculationElements structure.'

  <quantity> xsd:decimal </quantity> [1]
  'Amount of units.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="UnderlyerReferenceUnits">
  <xsd:sequence>
    <xsd:element name="underlyerReference" type="TradeUnderlyerReference" />
    <xsd:element name="quantity" type="xsd:decimal" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **UnprocessedPosition**

Super-types:	None
Sub-types:	None

Name	UnprocessedPosition
Used by (from the same schema document)	Complex Type <a href="#">PositionsAcknowledged</a>
Abstract	no
Documentation	A type describing the situation when an entire position change cannot be processed. It includes the position identification information and the reason that the position change could not be processed.

XML Instance Representation

```
<...>
  <positionId> PositionId </positionId> [1]
  'A version-independent identifier for the position, possibly based on trade identifier.'

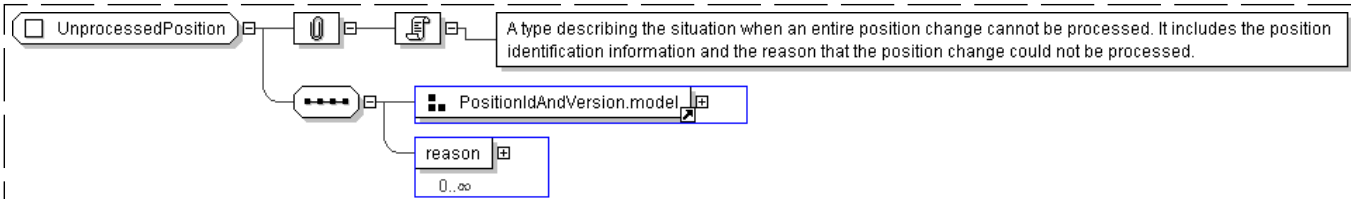
  <version> xsd:positiveInteger </version> [0..1]
  'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply
```

newer versions. There is no requirement that version identifiers for a position be sequential or small, so for example timestamp-based version identifiers could be used.'

<reason> Reason </reason> [0..\*]

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="UnprocessedPosition">
  <xsd:sequence>
    <xsd:group ref=" PositionIdAndVersion.model " />
    <xsd:element name="reason" type=" Reason " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Model Group: DefinitionAndCashflows.model

Name	DefinitionAndCashflows.model
Used by (from the same schema document)	Complex Type <a href="#">AllegedCashflow</a> , Complex Type <a href="#">AssertedCashflow</a>

XML Instance Representation

```
<asOfDate> xsd:dateTime </asOfDate> [0..1]
'The date and time at which the set of cashflows was defined.'
```

```
<tradeCashflowsId> TradeCashflowsId </tradeCashflowsId> [1]
'Unique identifier assigned by the party asserting the set of cashflows to be reconciled.'
```

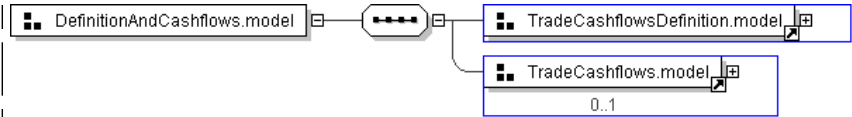
```
Start Group: TradeCashflows.model [0..1]
  <tradeIdentifyingItems> TradeIdentifyingItems </tradeIdentifyingItems> [1]
  'Structure that holds reference to the trade through the tradeId and optionally some
  trade-specific elements for identifying the trade in the case of trades that have not
  been negotiated through electronic platforms and for which the counterparty\'s trade ID has
  not been captured.'
```

```
  <adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
  'The adjusted date in which the payments are being paid/received.'
```

```
  <payment> PaymentMatching </payment> [1..*]
  'Specifies the payment that is exposed to the matching process. Usually there will be a
  single payment but for cross-currency swaps a different payment per currency shall be provided.'
```

```
End Group: TradeCashflows.model
```

Diagram



Schema Component Representation

```
<xsd:group name="DefinitionAndCashflows.model">
  <xsd:sequence>
    <xsd:group ref=" TradeCashflowsDefinition.model " />
    <xsd:group ref=" TradeCashflows.model " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: IdAndTradeCashflows.model

Name	IdAndTradeCashflows.model
Used by (from the same schema document)	Complex Type <a href="#">CancelTradeCashflows</a> , Complex Type <a href="#">TradeCashflowsProposedMatch</a>

XML Instance Representation

<tradeCashflowsId> [TradeCashflowsId](#) </tradeCashflowsId> [1]

'Unique identifier assigned by either party to a set of cashflows.'

Start Group: [TradeCashflows.model](#) [0..1]

<tradeIdentifyingItems> [TradeIdentifyingItems](#) </tradeIdentifyingItems> [1]

'Structure that holds reference to the trade through the tradeId and optionally some trade-specific elements for identifying the trade in the case of trades that have not been negotiated through electronic platforms and for which the counterparty's trade ID has not been captured.'

<adjustedPaymentDate> [xsd:date](#) </adjustedPaymentDate> [1]

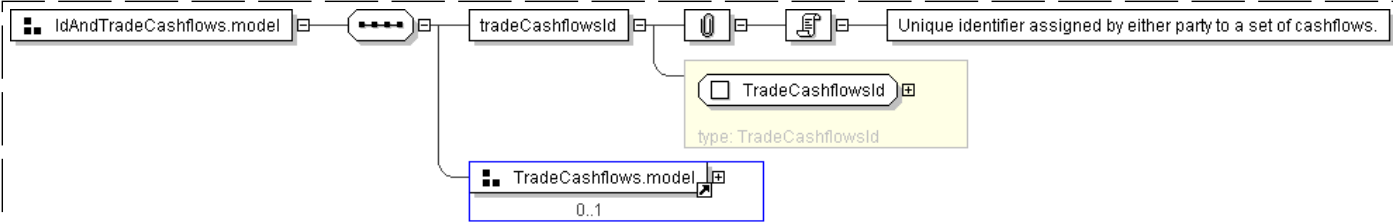
'The adjusted date in which the payments are being paid/received.'

<payment> [PaymentMatching](#) </payment> [1..\*]

'Specifies the payment that is exposed to the matching process. Usually there will be a single payment but for cross-currency swaps a different payment per currency shall be provided.'

End Group: [TradeCashflows.model](#)

Diagram



Schema Component Representation

```
<xsd:group name="IdAndTradeCashflows.model">
  <xsd:sequence>
    <xsd:element name="tradeCashflowsId" type=" TradeCashflowsId " />
    <xsd:group ref=" TradeCashflows.model " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

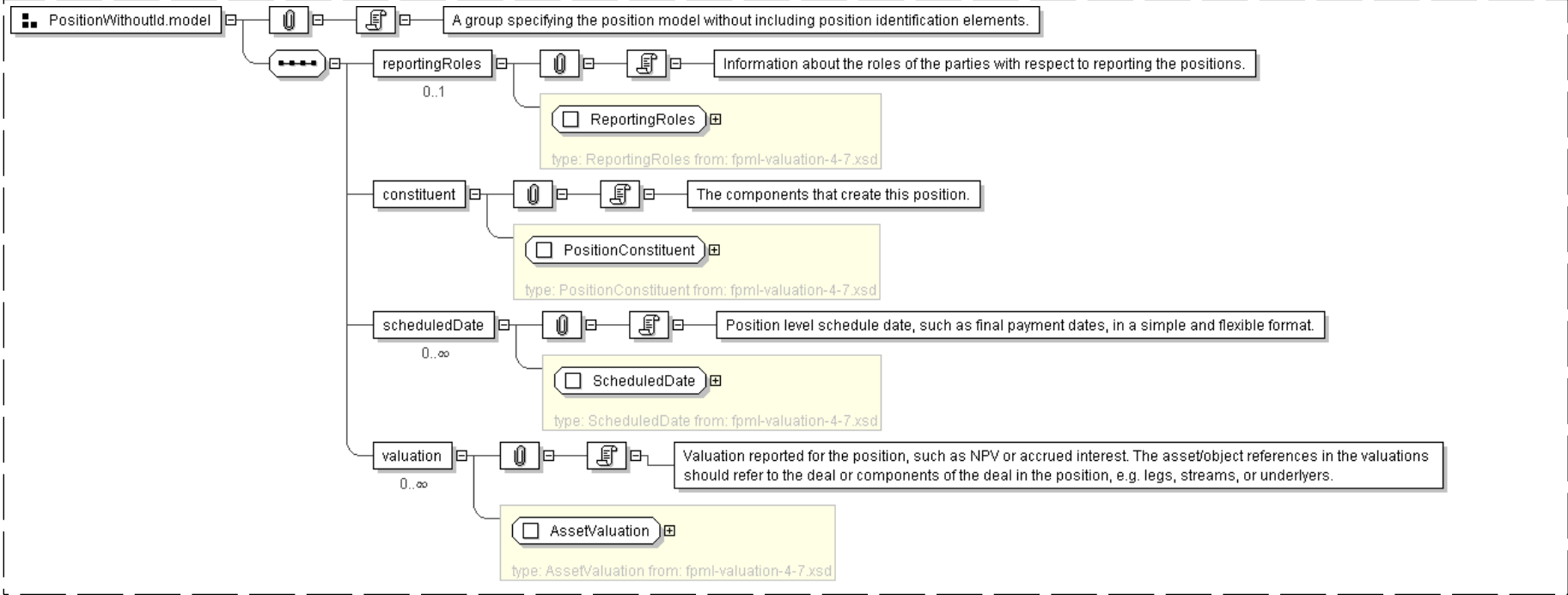
Model Group: **PositionWithoutId.model**

Name	PositionWithoutId.model
Used by (from the same schema document)	Complex Type <a href="#">AssertedPosition</a> , Complex Type <a href="#">PositionProposedMatch</a>
Documentation	A group specifying the position model without including position identification elements.

XML Instance Representation

<code>&lt;reportingRoles&gt; <a href="#">ReportingRoles</a> &lt;/reportingRoles&gt; [0..1]</code>
<i>'Information about the roles of the parties with respect to reporting the positions.'</i>
<code>&lt;constituent&gt; <a href="#">PositionConstituent</a> &lt;/constituent&gt; [1]</code>
<i>'The components that create this position.'</i>
<code>&lt;scheduledDate&gt; <a href="#">ScheduledDate</a> &lt;/scheduledDate&gt; [0..*]</code>
<i>'Position level schedule date, such as final payment dates, in a simple and flexible format.'</i>
<code>&lt;valuation&gt; <a href="#">AssetValuation</a> &lt;/valuation&gt; [0..*]</code>
<i>'Valuation reported for the position, such as NPV or accrued interest. The asset/object references in the valuations should refer to the deal or components of the deal in the position, e.g. legs, streams, or underlyers.'</i>

Diagram



Schema Component Representation

<pre>&lt;xsd:group name="PositionWithoutId.model"&gt;   &lt;xsd:sequence&gt;     &lt;xsd:element name="reportingRoles" type="ReportingRoles" minOccurs="0"/&gt;     &lt;xsd:element name="constituent" type="PositionConstituent" /&gt;     &lt;xsd:element name="scheduledDate" type="ScheduledDate" minOccurs="0" maxOccurs="unbounded"/&gt;   &lt;/xsd:sequence&gt; &lt;/xsd:group&gt;</pre>
---

```
<xsd:element name="valuation" type=" AssetValuation " minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:group>
```

Model Group: **TradeCashflows.model**

Name	TradeCashflows.model
Used by (from the same schema document)	Complex Type <a href="#">TradeCashflowsAsserted</a> , Model Group <a href="#">DefinitionAndCashflows.model</a> , Model Group <a href="#">IdAndTradeCashflows.model</a>
Documentation	A group describing the cashflows owing on a particular adjustedPaymentDate for a specific trade.

XML Instance Representation

```
<tradeIdentifyingItems> TradeIdentifyingItems </tradeIdentifyingItems> [1]
```

'Structure that holds reference to the trade through the tradeId and optionally some trade-specific elements for identifying the trade in the case of trades that have not been negotiated through electronic platforms and for which the counterparty's trade ID has not been captured.'

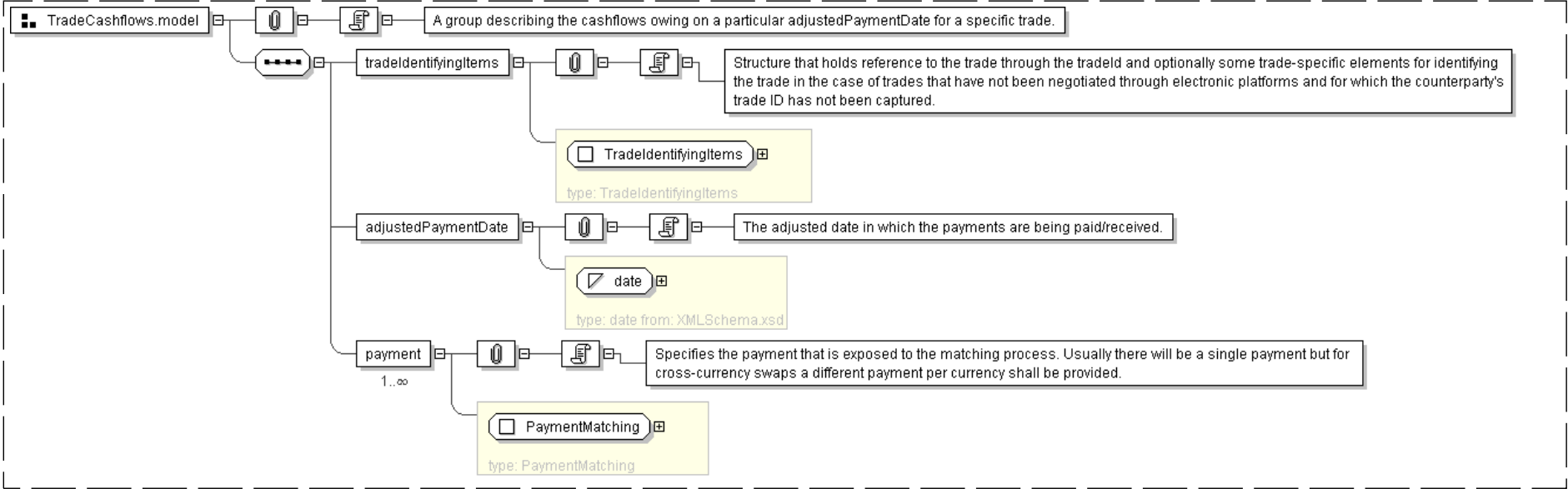
```
<adjustedPaymentDate> xsd:date </adjustedPaymentDate> [1]
```

'The adjusted date in which the payments are being paid/received.'

```
<payment> PaymentMatching </payment> [1..*]
```

'Specifies the payment that is exposed to the matching process. Usually there will be a single payment but for cross-currency swaps a different payment per currency shall be provided.'

Diagram



Schema Component Representation

```
<xsd:group name="TradeCashflows.model">
  <xsd:sequence>
    <xsd:element name="tradeIdentifyingItems" type=" TradeIdentifyingItems " />
    <xsd:element name="adjustedPaymentDate" type=" xsd:date " />
    <xsd:element name="payment" type=" PaymentMatching " maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:group>
```

Model Group: TradeCashflowsDefinition.model

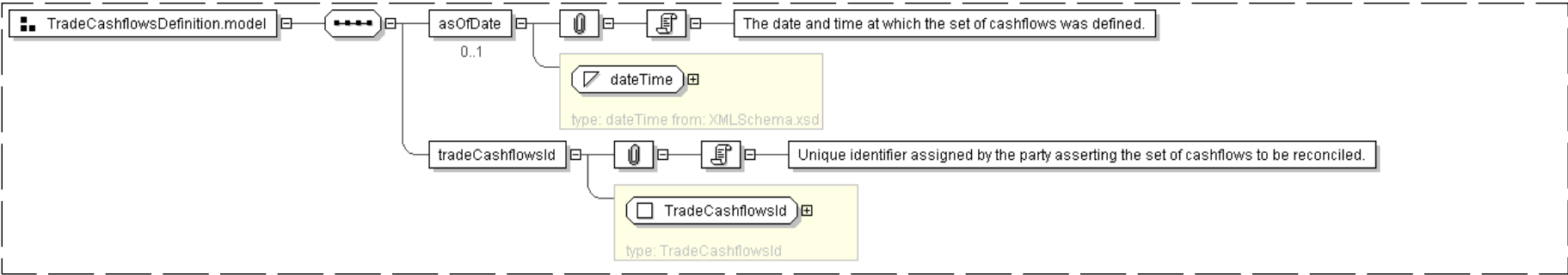
Name	TradeCashflowsDefinition.model
Used by (from the same schema document)	Complex Type <a href="#">TradeCashflowsAsserted</a> , Model Group <a href="#">DefinitionAndCashflows.model</a>

XML Instance Representation

```
<asOfDate> xsd:dateTime </asOfDate> [0..1]
'The date and time at which the set of cashflows was defined.'

<tradeCashflowsId> TradeCashflowsId </tradeCashflowsId> [1]
'Unique identifier assigned by the party asserting the set of cashflows to be reconciled.'
```

Diagram



Schema Component Representation

```
<xsd:group name="TradeCashflowsDefinition.model">
  <xsd:sequence>
    <xsd:element name="asOfDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="tradeCashflowsId" type="TradeCashflowsId"/>
  </xsd:sequence>
</xsd:group>
```

Legend

Complex Type:      AusAddress  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates " />
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}" />
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an xsi : type attribute.



**Key Constraint** Like [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions) or [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li><li>◦ <a href="#">fpml-valuation-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  <xsd:include schemaLocation="fpml-valuation-4-7.xsd" />
  ...
</xsd:schema>
```

[top](#)

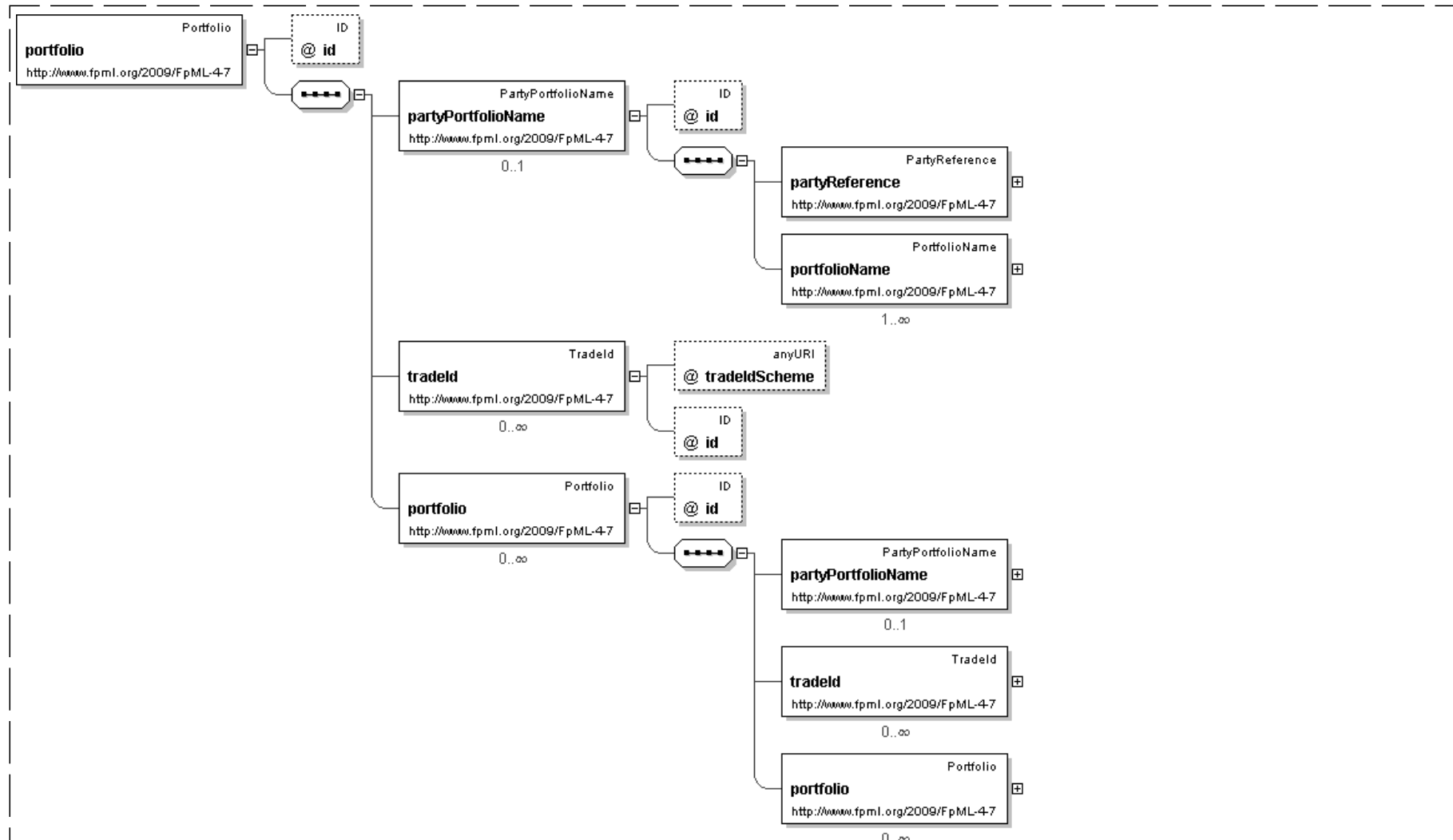
## Global Declarations

### Element: **portfolio**

- The following elements can be used wherever this element is referenced:
  - [queryPortfolio](#)

<b>Name</b>	portfolio
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">PortfolioValuationItem</a>
<b>Type</b>	<a href="#">Portfolio</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	Global portfolio element used as a basis for a substitution group.

#### Logical Diagram

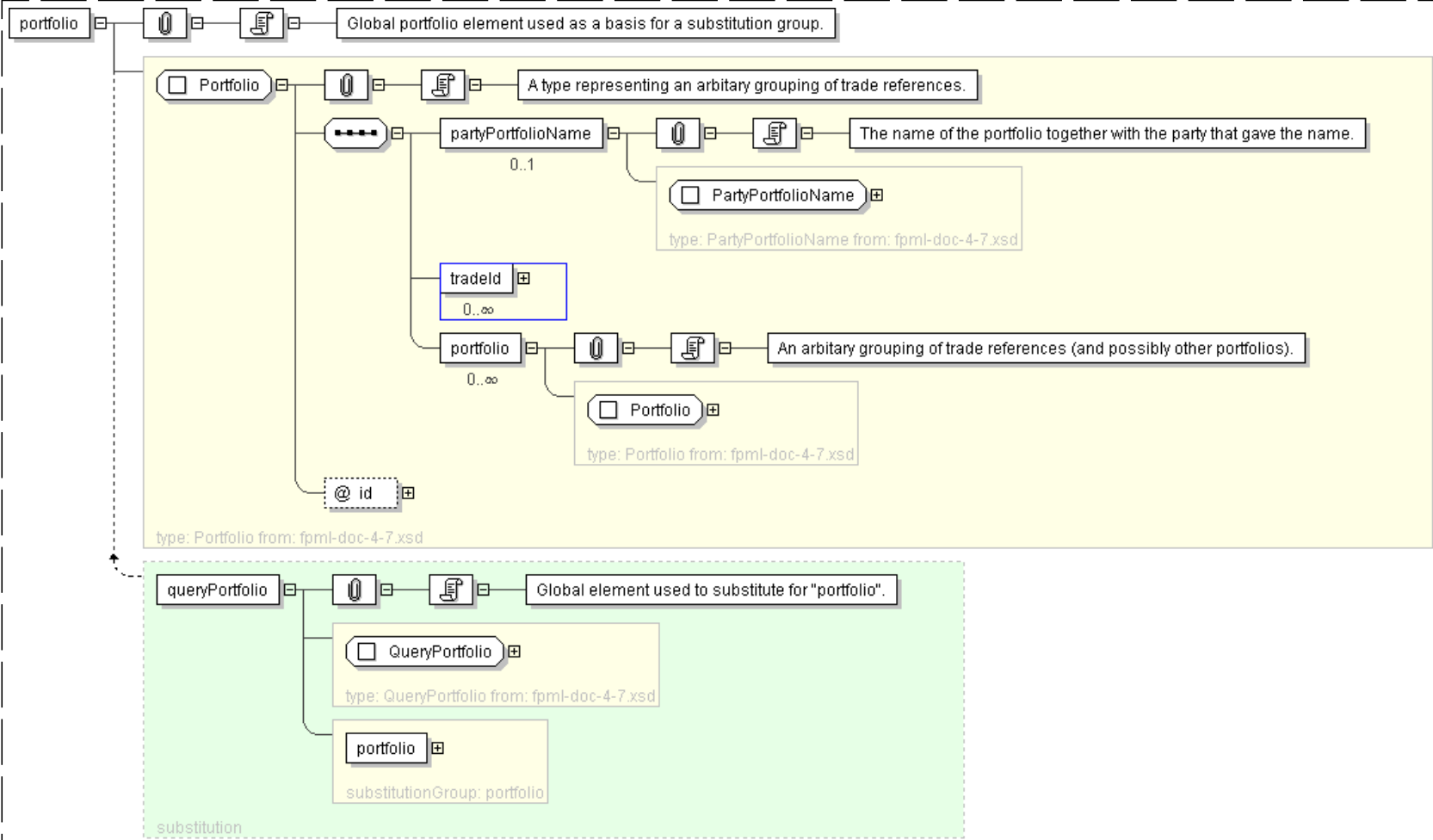


XML Instance Representation

```
<portfolio
id=" xsd:ID [0..1]">
  <partyPortfolioName> PartyPortfolioName </partyPortfolioName> [0..1]
  'The name of the portfolio together with the party that gave the name.'

  <tradeId> TradeId </tradeId> [0..*]
  <portfolio> Portfolio </portfolio> [0..*]
  'An arbitrary grouping of trade references (and possibly other portfolios).'
</portfolio>
```

Diagram



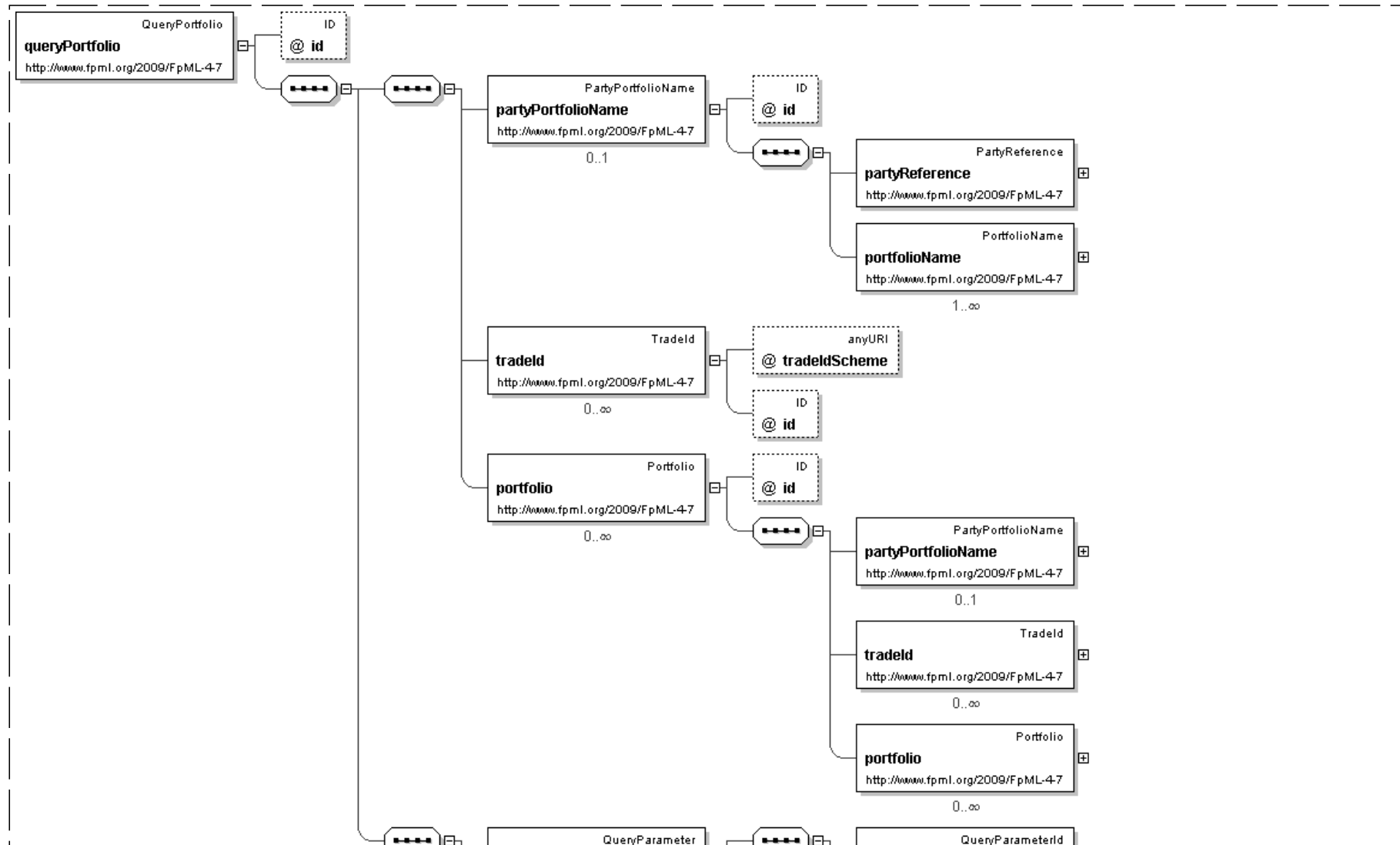
Schema Component Representation

```
<xsd:element name="portfolio" type=" Portfolio " />
```

**Element:** **queryPortfolio**

- This element can be used wherever the following element is referenced:
  - [portfolio](#)

<b>Name</b>	queryPortfolio
<b>Type</b>	<a href="#">QueryPortfolio</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	Global element used to substitute for "portfolio".

**Logical Diagram**

```
<queryPortfolio
id=" xsd:ID [0..1]">
  <partyPortfolioName> PartyPortfolioName </partyPortfolioName> [0..1]
  'The name of the portfolio together with the party that gave the name.'

  <tradeId> TradeId </tradeId> [0..*]
  <portfolio> Portfolio </portfolio> [0..*]
  'An arbitrary grouping of trade references (and possibly other portfolios).'

  <queryParameter> QueryParameter </queryParameter> [1..*]
</queryPortfolio>
```

The diagram illustrates the relationship between `queryPortfolio` and `portfolio` elements in the context of a substitution group.

- queryPortfolio** is a global element used to substitute for "portfolio".
- queryPortfolio** is a type of **Portfolio** (base: Portfolio from: fpml-doc-4-7.xsd).
- queryPortfolio** extends **Portfolio**.
- queryPortfolio** has a **queryParameter** attribute (1..∞).
- portfolio** is a global portfolio element used as a basis for a substitution group.
- portfolio** is a type of **Portfolio** (type: Portfolio from: fpml-doc-4-7.xsd).
- portfolio** has a substitution group for **queryPortfolio**.

Schema Component Representation

```
<xsd:element name="queryPortfolio" type=" QueryPortfolio " substitutionGroup="portfolio"/>
```

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Global Definitions

Complex Type: **PortfolioValuationItem**

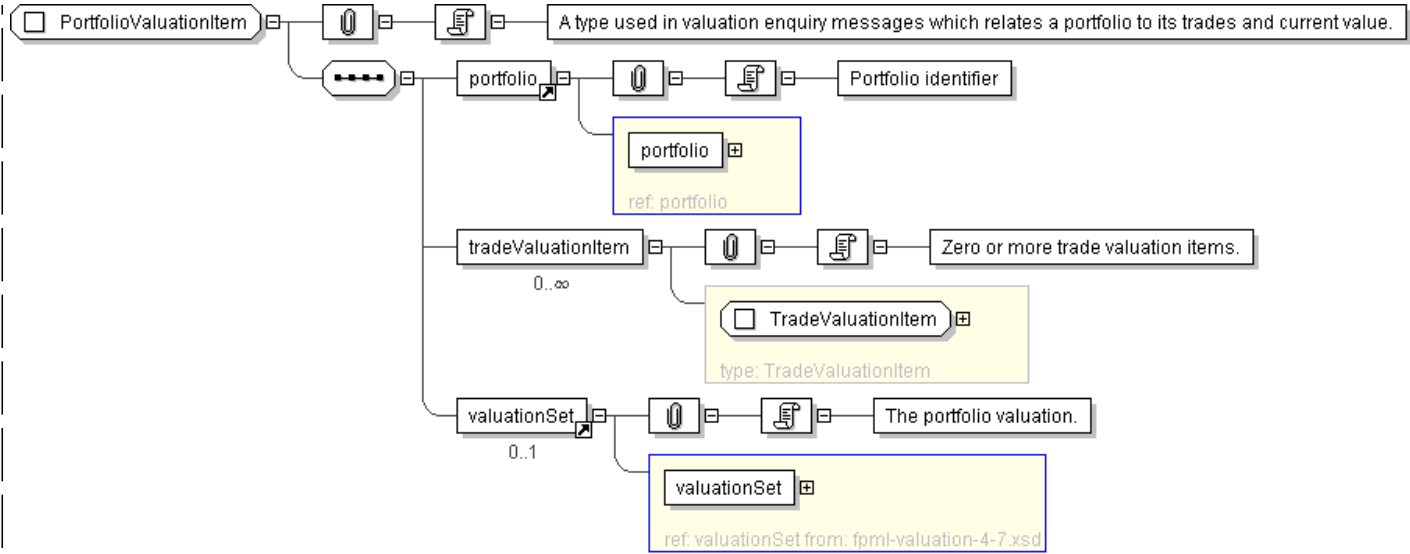
Super-types:	None
Sub-types:	None

<b>Name</b>	PortfolioValuationItem
<b>Used by (from the same schema document)</b>	Complex Type <a href="#">RequestValuationReport</a> , Complex Type <a href="#">ValuationReport</a>
<b>Abstract</b>	no
<b>Documentation</b>	A type used in valuation enquiry messages which relates a portfolio to its trades and current value.

XML Instance Representation

```
<...>  
  <portfolio> ... </portfolio> [1]  
  'Portfolio identifier'  
  
  <tradeValuationItem> TradeValuationItem </tradeValuationItem> [0..*]  
  'Zero or more trade valuation items.'  
  
  <valuationSet> ... </valuationSet> [0..1]  
  'The portfolio valuation.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PortfolioValuationItem">
  <xsd:sequence>
    <xsd:element ref=" portfolio " />
    <xsd:element name="tradeValuationItem" type=" TradeValuationItem "
      minOccurs="0" maxOccurs="unbounded" />
    <xsd:element ref=" valuationSet " minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **PositionReport**

Super-types:	<a href="#">NotificationMessage</a> < <b>PositionReport</b> (by extension)
Sub-types:	None

Name	PositionReport
Abstract	no
Documentation	A type defining the content model for a message allowing one party to send a report consisting of positions.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
```



actualBuild="5" [0..1]

'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">

<header> NotificationMessageHeader </header> [1]

<validation> Validation </validation> [0..\*]

<asOfDate> IdentifiedDate </asOfDate> [0..1]

'The date for which this document reports positions and valuations.'

<dataSetName> xsd:string </dataSetName> [0..1]

'The name of the data set (portfolio, product type, etc.) that this report corresponds to. Used to help document the contents of the report.'

<quotationCharacteristics> QuotationCharacteristics </quotationCharacteristics> [0..1]

'The default quotation characteristics for this document (e.g. currency, location). Currency must be specified; other fields may be specified.'

<position> Position </position> [1..\*]

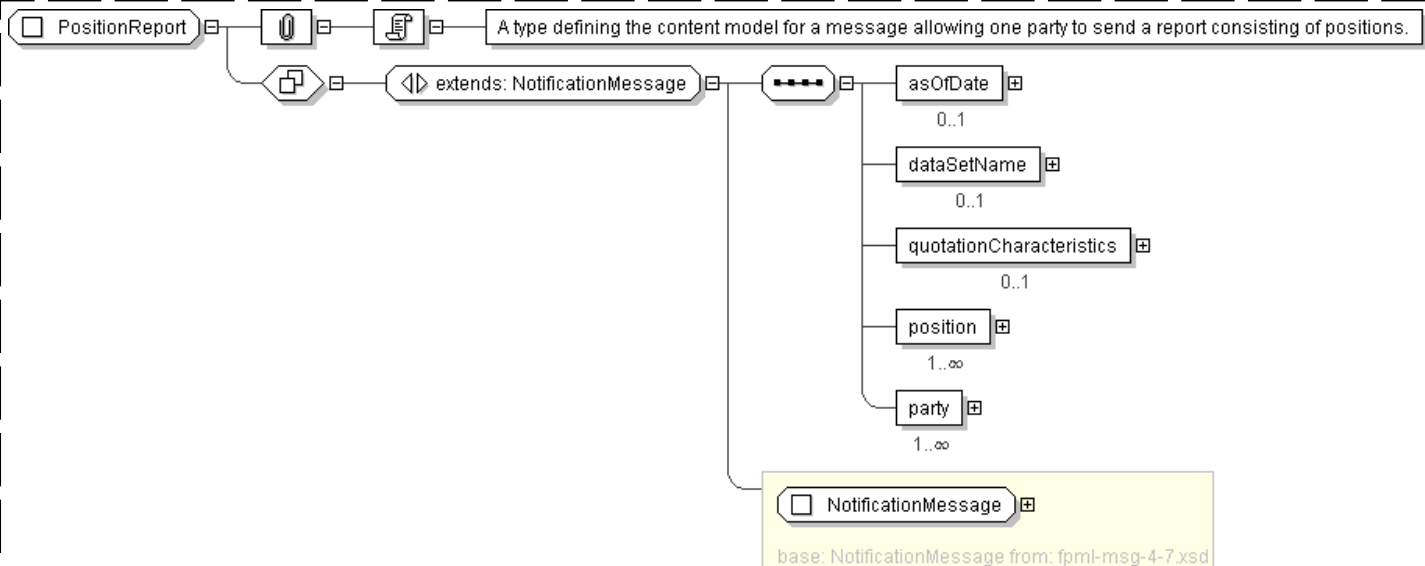
'The positions included in the position report.'

<party> Party </party> [1..\*]

'The parties whose trades are included included in this position report.'

</...>

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="PositionReport">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:element name="asOfDate" type=" IdentifiedDate " minOccurs="0"/>
        <xsd:element name="dataSetName" type=" xsd:string " minOccurs="0"/>
        <xsd:element name="quotationCharacteristics" type=" QuotationCharacteristics " minOccurs="0"/>
        <xsd:element name="position" type=" Position " maxOccurs="unbounded"/>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **RequestPositionReport**

Super-types:	<a href="#">RequestMessage</a> < <b>RequestPositionReport</b> (by extension)
Sub-types:	None

Name	RequestPositionReport
Abstract	no
Documentation	A type defining the content model for a message requesting a position report .

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <asOfDate> ... </asOfDate> [0..1]
  'The date for which this request desires positions and valuations.'

Start Choice [1]
  <dataSetName> xsd:normalizedString </dataSetName> [1]
  'The name of the data set (portfolio, product type, etc.) that this request corresponds
to. Describes the desired report.'
```

```
<requestedPositions> RequestedPositions </requestedPositions> [1]
```

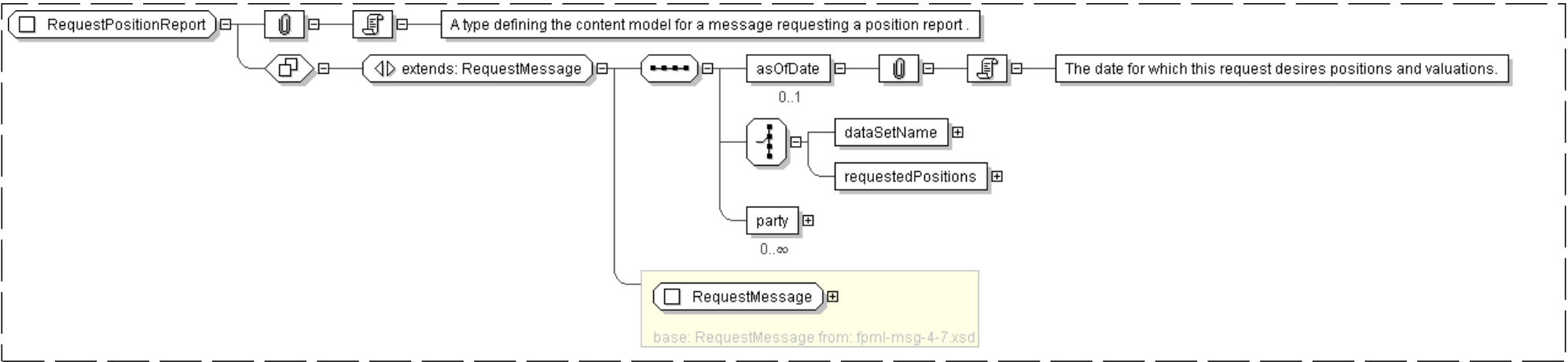
'The name of the data set (portfolio, product type, etc.) that this request corresponds to. Describes the desired report.'

End Choice

```
<party> Party </party> [0..*]
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestPositionReport">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage " />
    <xsd:sequence>
      <xsd:element name="asOfDate" minOccurs="0" />
      <xsd:choice>
        <xsd:element name="dataSetName" type=" xsd:normalizedString " />
        <xsd:element name="requestedPositions" type=" RequestedPositions " />
      </xsd:choice>
      <xsd:element name="party" type=" Party " minOccurs="0" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexType>
```

[top](#)

Complex Type: RequestValuationReport

Super-types:	<a href="#">RequestMessage</a> < RequestValuationReport (by extension)
Sub-types:	None

Name	RequestValuationReport
Abstract	no
Documentation	A type defining the content model for a message allowing one party a report containing valuations of one or many existing trades.

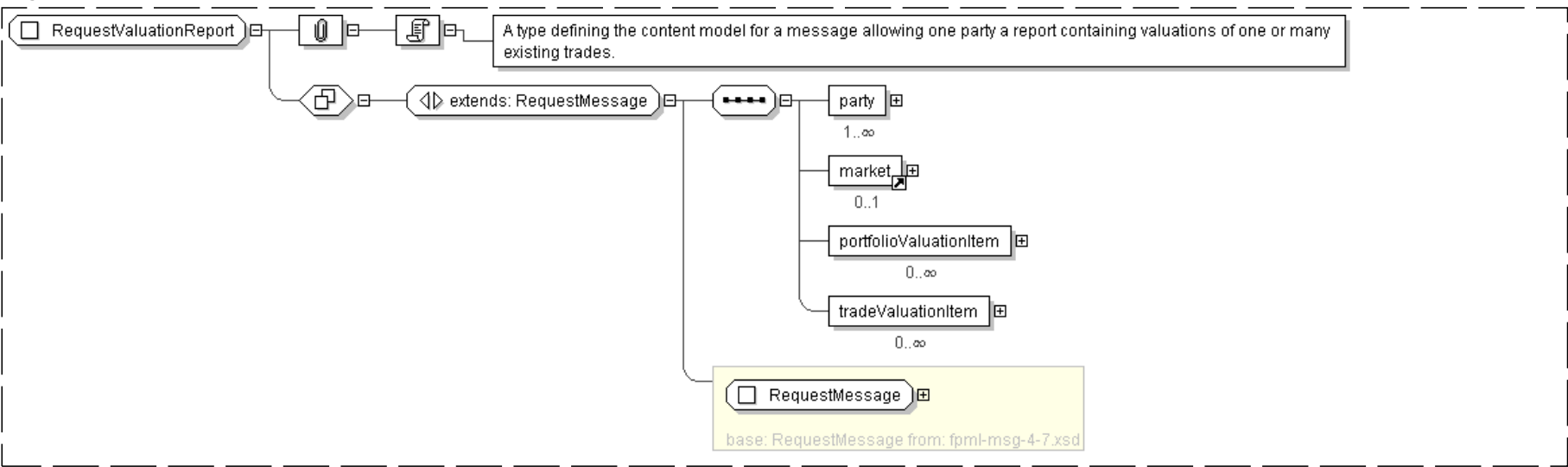
XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
"
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <party> Party </party> [1..*]
  <market> ... </market> [0..1]
  <portfolioValuationItem> PortfolioValuationItem </portfolioValuationItem> [0..*]
  'An instance of a unique portfolio valuation.'

  <tradeValuationItem> TradeValuationItem </tradeValuationItem> [0..*]
  'An instance of a unique trade valuation.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestValuationReport">
```

```
<xsd:complexContent>
  <xsd:extension base=" RequestMessage "
    <xsd:sequence>
      <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      <xsd:element ref=" market " minOccurs="0"/>
      <xsd:element name="portfolioValuationItem" type=" PortfolioValuationItem "
        minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element name="tradeValuationItem" type=" TradeValuationItem "
        minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RequestedPositions

Super-types:	None
Sub-types:	None

Name	RequestedPositions
Used by (from the same schema document)	Complex Type <a href="#">RequestPositionReport</a>
Abstract	no
Documentation	A definition of the positions that are requested.

XML Instance Representation

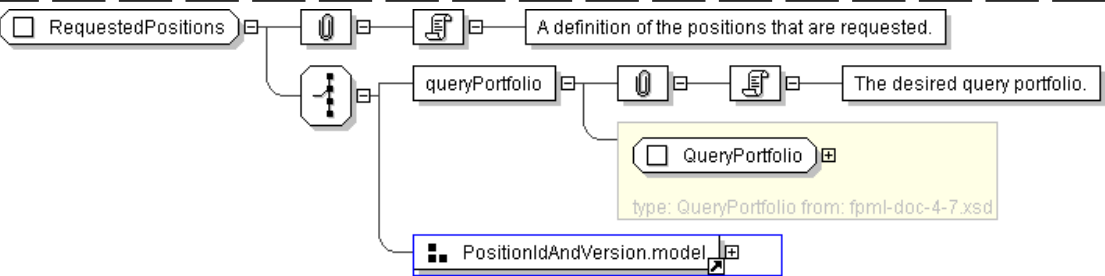
```
<...>
Start Choice [1]
  <queryPortfolio> QueryPortfolio </queryPortfolio> [1]
  'The desired query portfolio.'

  <positionId> PositionId </positionId> [1]
  'A version-independent identifier for the position, possibly based on trade identifier.'

  <version> xsd:positiveInteger </version> [0..1]
  'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply
  newer versions. There is no requirement that version identifiers for a position be
  sequential or small, so for example timestamp-based version identifiers could be used.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequestedPositions">
  <xsd:choice>
    <xsd:element name="queryPortfolio" type=" QueryPortfolio " />
    <xsd:group ref=" PositionIdAndVersion.model " />
  </xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: TradeValuationItem

Super-types:	None
Sub-types:	None

Name	TradeValuationItem
Used by (from the same schema document)	Complex Type <a href="#">PortfolioValuationItem</a> , Complex Type <a href="#">RequestValuationReport</a> , Complex Type <a href="#">ValuationReport</a>
Abstract	no
Documentation	A type used in trade valuation enquiry messages which relates a trade identifier to its current value.

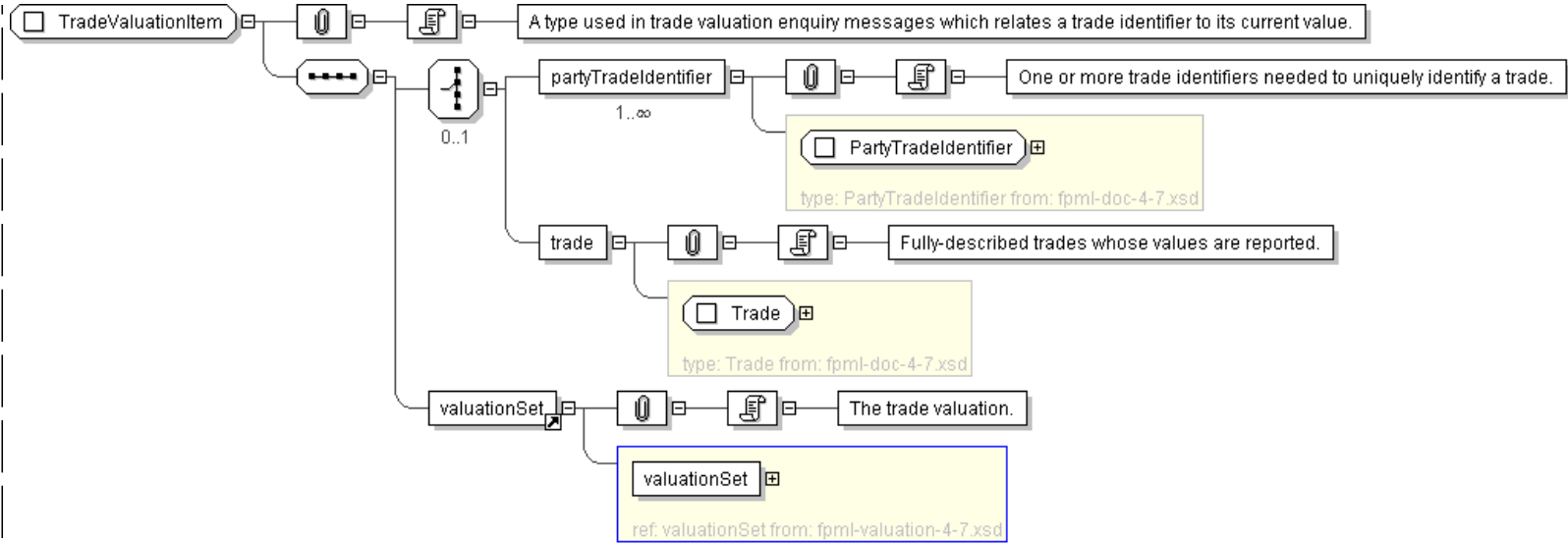
XML Instance Representation

```
<...>
Start Choice [0..1]
  <partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1..*]
  'One or more trade identifiers needed to uniquely identify a trade.'

  <trade> Trade </trade> [1]
  'Fully-described trades whose values are reported.'

End Choice
  <valuationSet> ... </valuationSet> [1]
  'The trade valuation.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeValuationItem">
  <xsd:sequence>
    <xsd:choice minOccurs="0">
      <xsd:element name="partyTradeIdentifier" type=" PartyTradeIdentifier " maxOccurs="unbounded"/>
      <xsd:element name="trade" type=" Trade " />
    </xsd:choice>
    <xsd:element ref=" valuationSet " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ValuationReport**

Super-types:	<a href="#">NotificationMessage</a> < <b>ValuationReport</b> (by extension)
Sub-types:	None

Name	ValuationReport
Abstract	no
Documentation	A type defining the content model for a message normally generated in response to a RequestValuationReport request.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
```

```

"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'

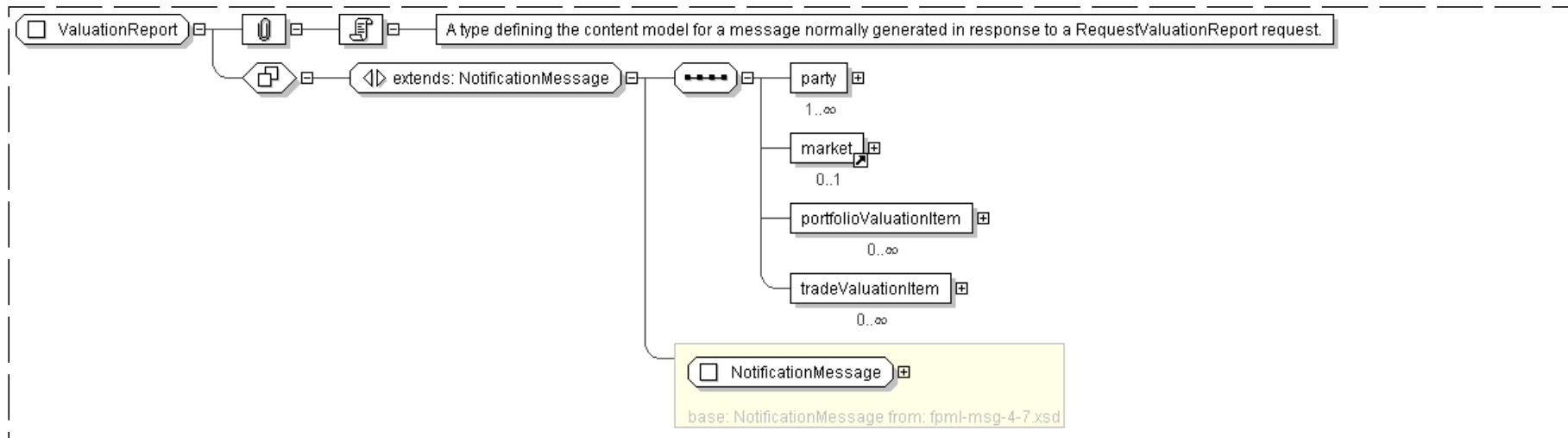
">
<header> NotificationMessageHeader </header> [1]
<validation> Validation </validation> [0..*]
<party> Party </party> [1..*]
<market> ... </market> [0..1]
<portfolioValuationItem> PortfolioValuationItem </portfolioValuationItem> [0..*]
'An instance of a unique portfolio valuation.'

<tradeValuationItem> TradeValuationItem </tradeValuationItem> [0..*]
'A collection of data values describing the state of the given trade.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="ValuationReport">
  <xsd:complexContent>
    <xsd:extension base="NotificationMessage">
      <xsd:sequence>
        <xsd:element name="party" type="Party" maxOccurs="unbounded"/>
        <xsd:element ref="market" minOccurs="0"/>
        <xsd:element name="portfolioValuationItem" type="PortfolioValuationItem"
          minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="tradeValuationItem" type="TradeValuationItem"
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>

```



</xsd:complexType>

Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types: [Address](#) < AusAddress (by extension)  
Sub-types: 

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address ">
<sequence>
<element name="state" type=" AusStates "/>
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}"/>
</restriction>
</simpleType>
</element>
```

```

</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>

```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** Only *one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Niltable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-ird-4-7.xsd</a></li><li>◦ <a href="#">fpml-eq-shared-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-ird-4-7.xsd"/>
  <xsd:include schemaLocation="fpml-eq-shared-4-7.xsd"/>
  ...
</xsd:schema>
```

[top](#)

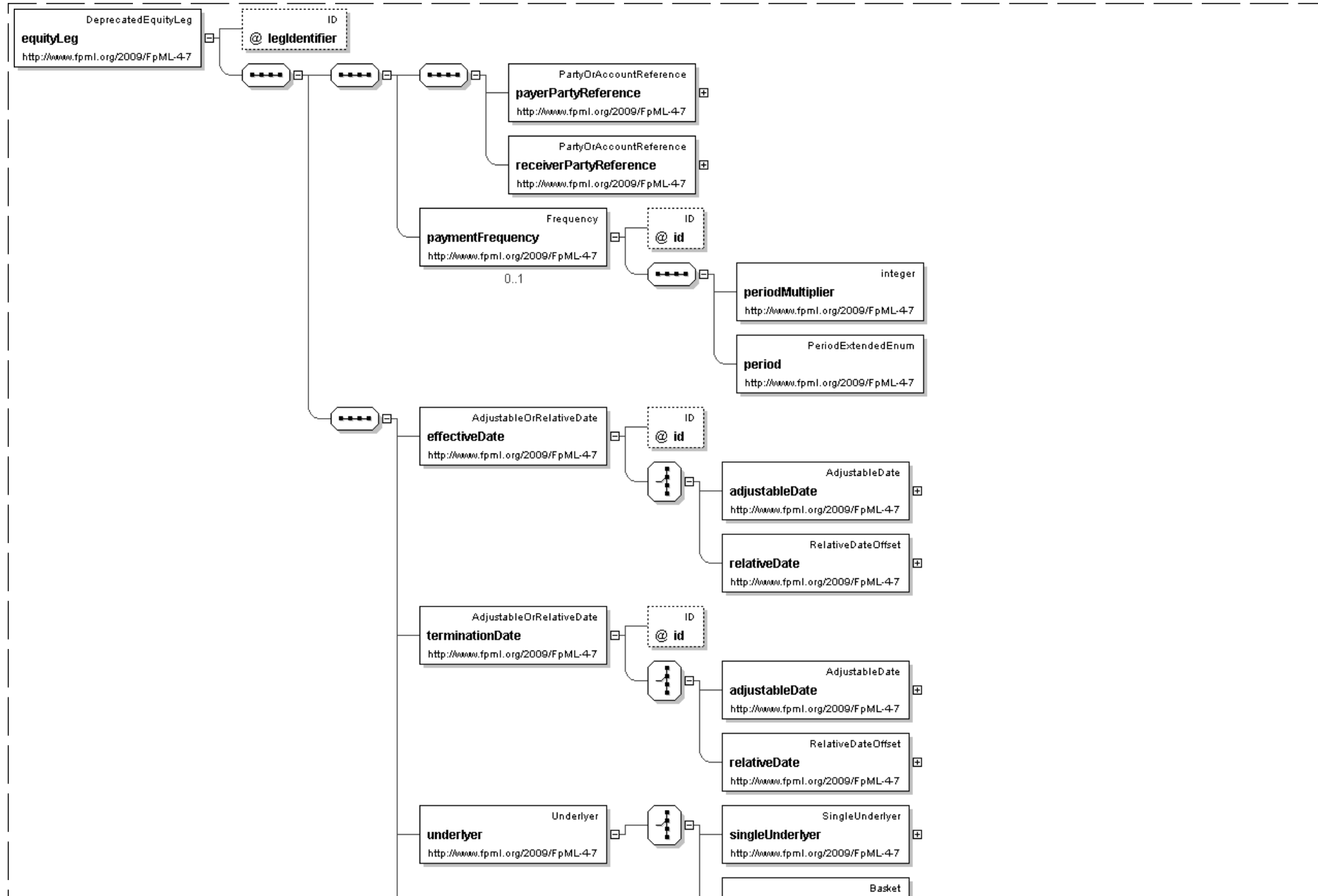
## Global Declarations

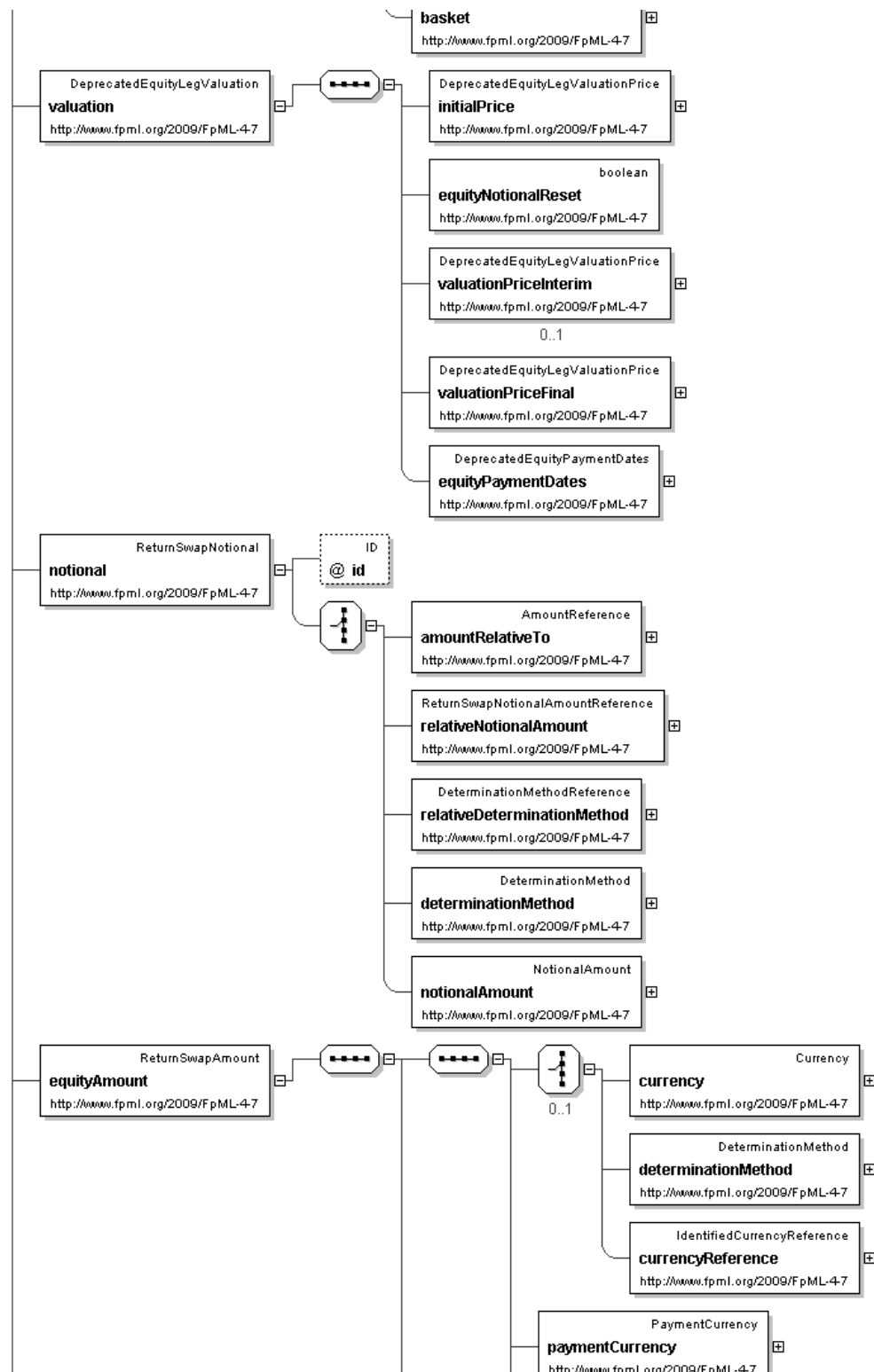
Element: **equityLeg**

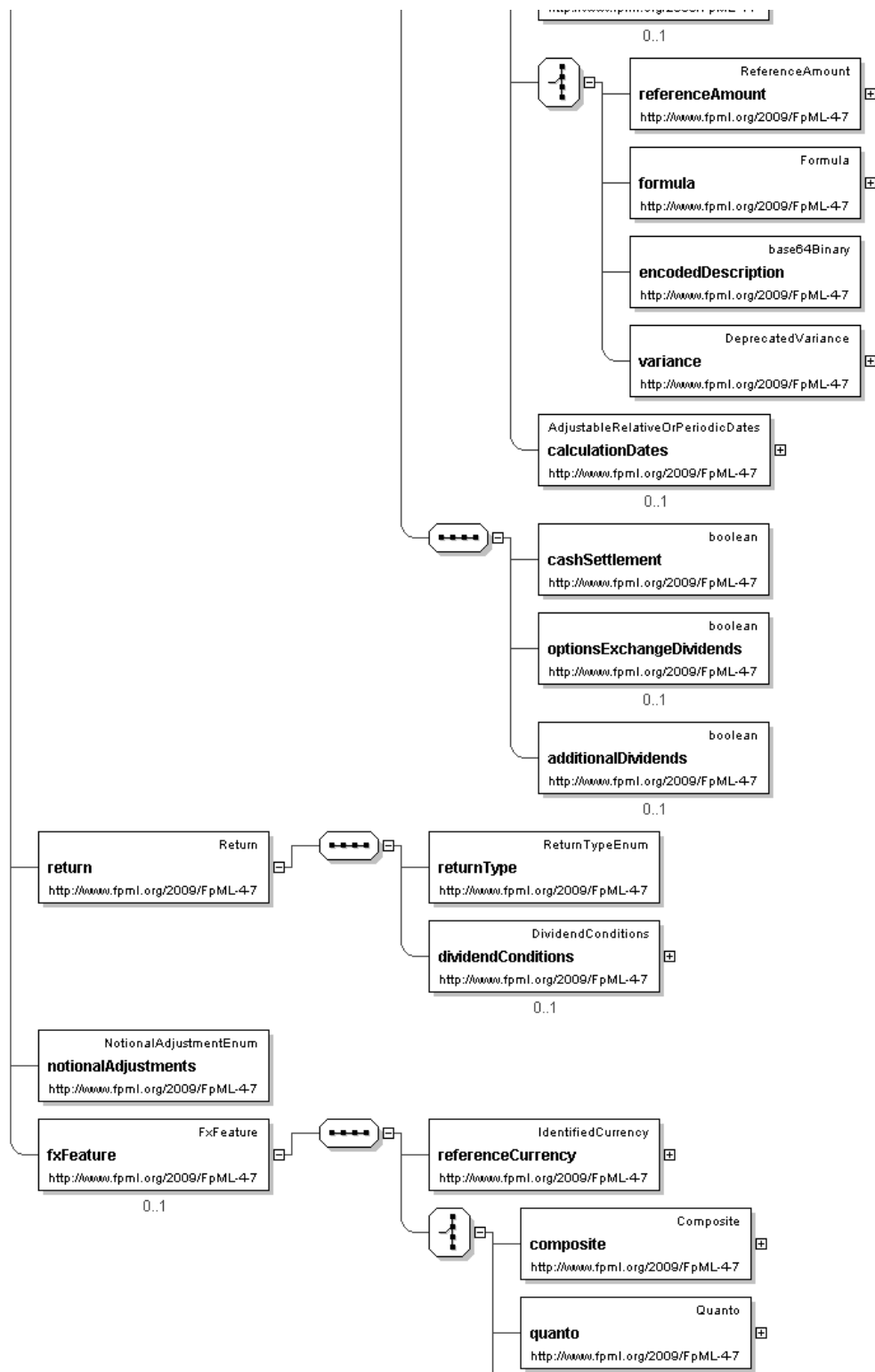
- This element can be used wherever the following element is referenced:
  - [returnSwapLeg](#)

<b>Name</b>	equityLeg
<b>Type</b>	<a href="#">DeprecatedEquityLeg</a>
<b>Nilable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	This element has been DEPRECATED and it will be removed in the next FpML major version (5.0) - please use returnLeg element to represent long form equity swaps, total return swaps. The equity amounts of the equity swap.

#### Logical Diagram







Composite  
**crossCurrency**  
<http://www.fpml.org/2009/FpML-4-7>

## XML Instance Representation

```
<equityLeg
  legIdentifier="xsd:ID [0..1]
  'DEPRECATED This element will be renamed to id in the next major FpML version.'
">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentFrequency> Frequency </paymentFrequency> [0..1]
  'DEPRECATED This element will be removed in the next FpML major version. Frequency at
  which this leg pays.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
  'Specifies the effective date of the equity leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
  'Specifies the termination date of the equity leg of the swap. When defined in relation to
  a date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlying component of the return type swap, which can be either one or
  many and consists in either equity, index or convertible bond component, or a combination
  of these.'

  <valuation> DeprecatedEquityLegValuation </valuation> [1]
  'Specifies the terms of the initial price of the return type swap and of the
  subsequent valuations of the equity underlyer.'

  <notional> ReturnSwapNotional </notional> [1]
  'Specifies the notional of a return type swap. When used in the equity leg, the definition
  will typically combine the actual amount (using the notional component defined by the
  FpML industry group) and the determination method. When used in the interest leg,
  the definition will typically point to the definition of the equity leg.'

  <equityAmount> ReturnSwapAmount </equityAmount> [1]
  'Specifies, in relation to each Equity Payment Date, the amount to which the Equity
  Payment Date relates. Unless otherwise specified, this term has the meaning defined in the
  ISDA 2002 Equity Derivatives Definitions.'

  <return> Return </return> [1]
  'Specifies the conditions under which dividend affecting the underlyer will be paid to
  the receiver of the equity amounts.'

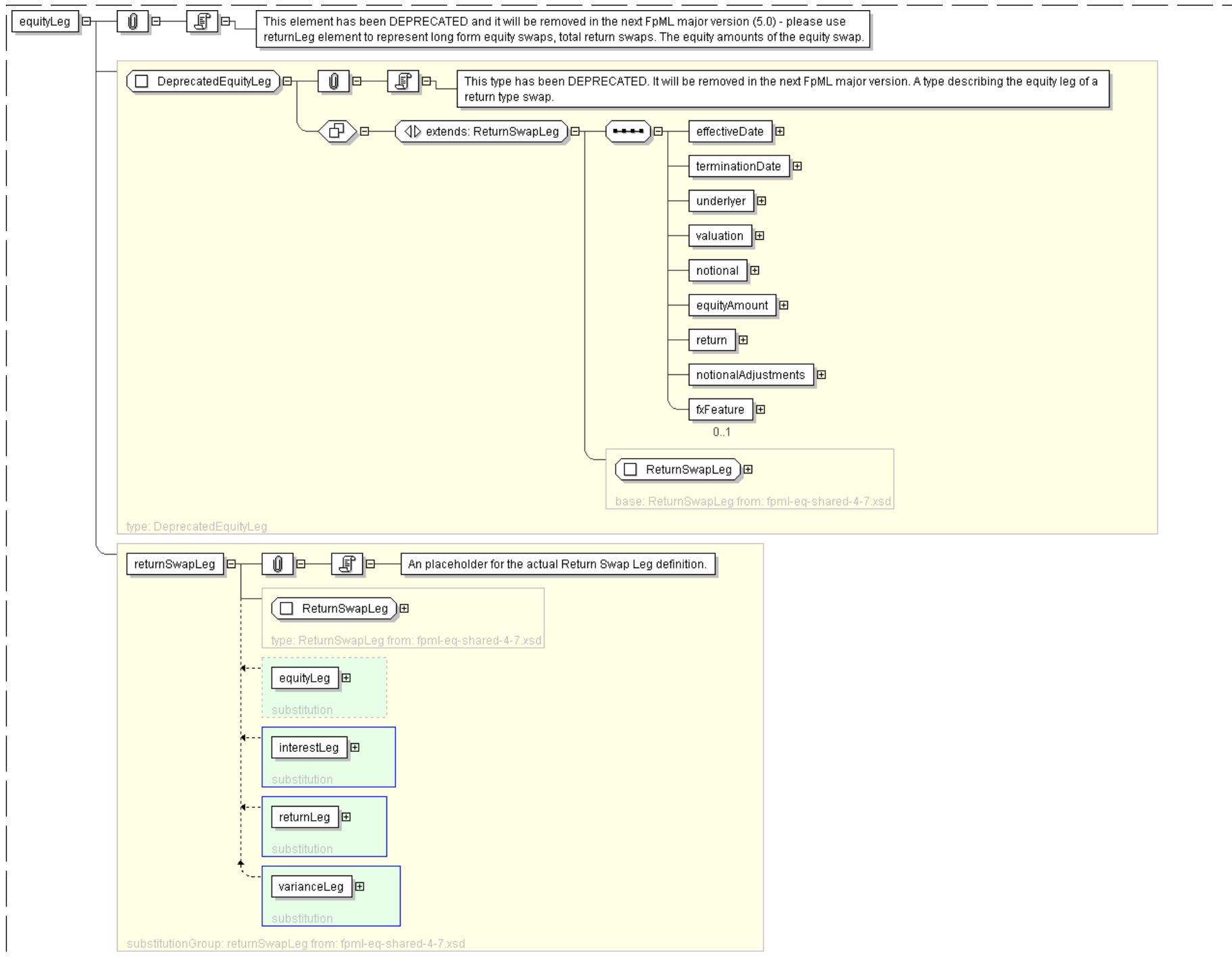
  <notionalAdjustments> NotionalAdjustmentEnum </notionalAdjustments> [1]
  'Specifies the conditions that govern the adjustment to the number of units of the equity swap.'

  <fxFeature> FxFeature </fxFeature> [0..1]
  'A quanto or composite FX feature.'
```



&lt;/equityLeg&gt;

## Diagram



Schema Component Representation

```
<xsd:element name="equityLeg" type=" DeprecatedEquityLeg "  
substitutionGroup="returnSwapLeg" deprecated="true" deprecatedReason="It has been made  
more generic as returnLeg to cover return swap type products."/>
```

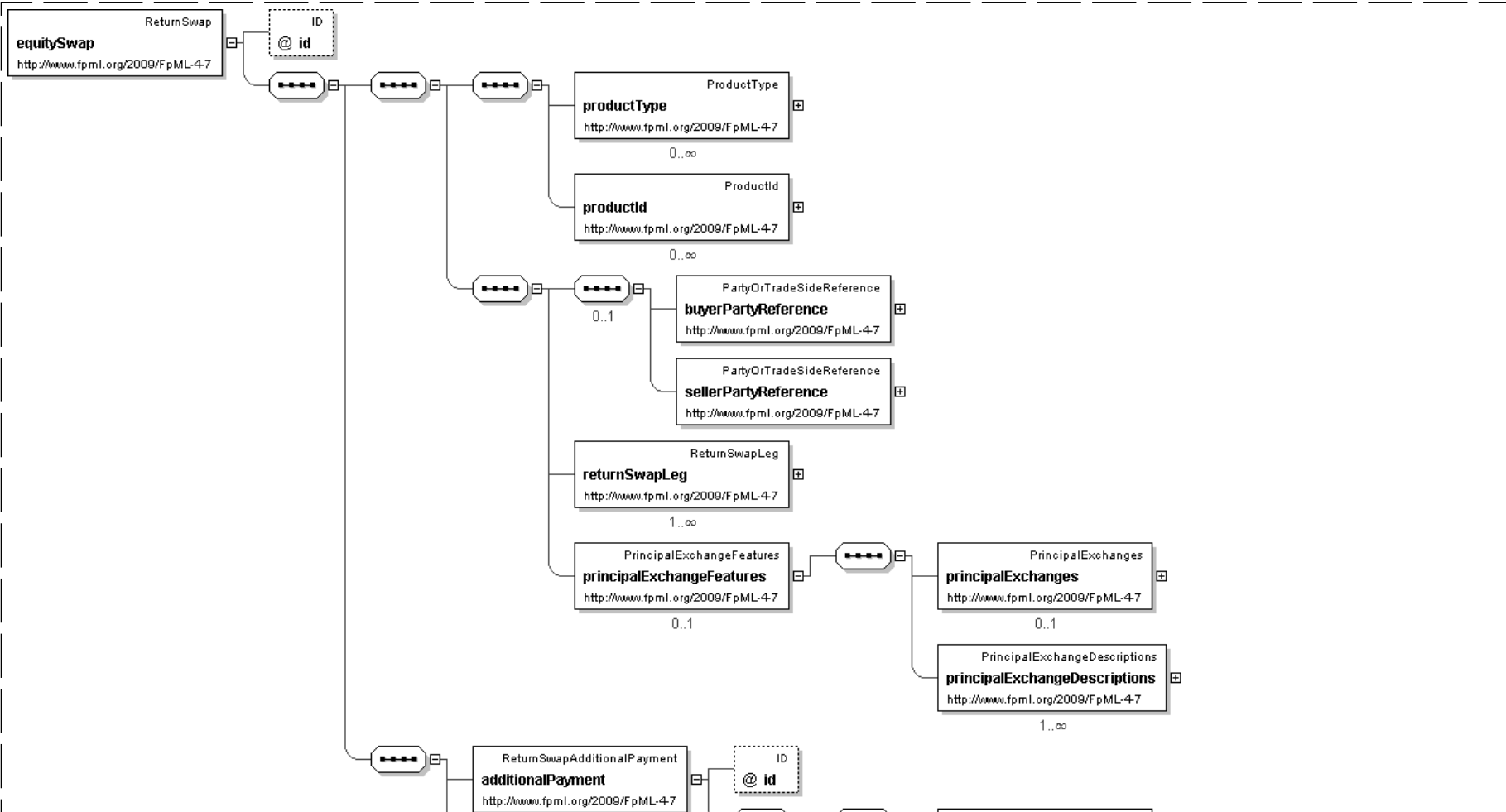
[top](#)

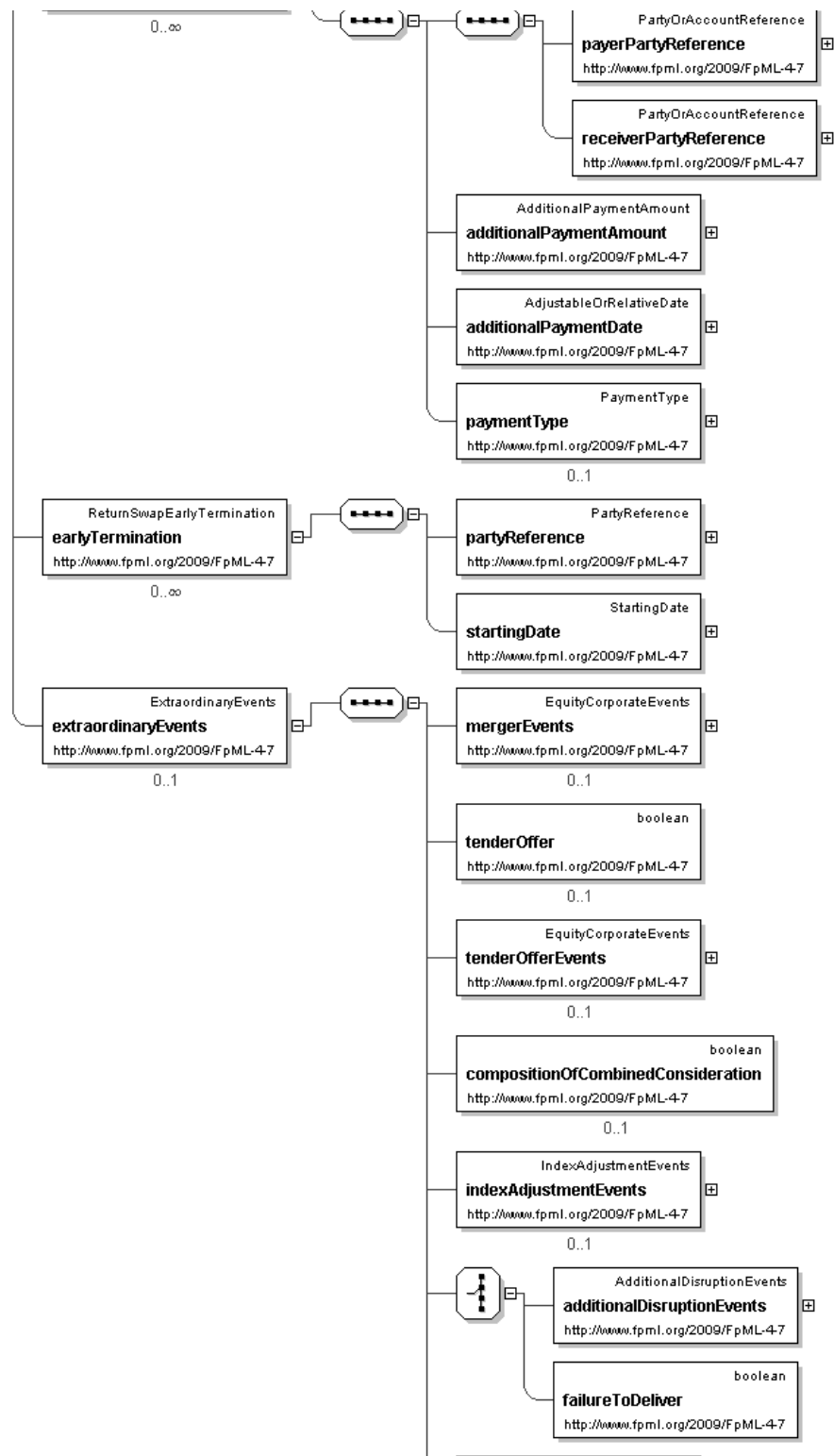
Element: equitySwap

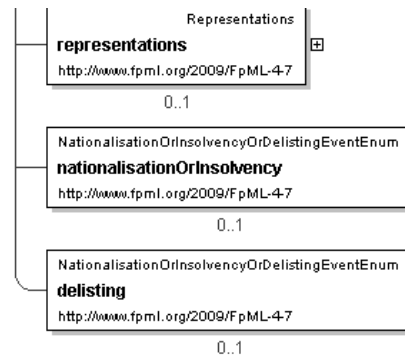
- This element can be used wherever the following element is referenced:
  - [product](#)

Name	equitySwap
Type	<a href="#">ReturnSwap</a>
Nilable	no
Abstract	no
Documentation	This element has been DEPRECATED and it will be removed in the next FpML major version (5.0) - please use returnSwap element to represent long form equity swaps, total return swaps, and variance swaps.

Logical Diagram







## XML Instance Representation

```

<equitySwap
  id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  Start Group: BuyerSeller.model [0..1]
  'BuyerSeller.model has been included as an optional child of ReturnSwapBase to support
  the situation where an implementor wishes to indicate who has manufactured the Swap
  through representing them as the Seller. It may be removed in future major revisions.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  End Group: BuyerSeller.model

  <returnSwapLeg> ... </returnSwapLeg> [1..*]
  <principalExchangeFeatures> PrincipalExchangeFeatures </principalExchangeFeatures> [0..1]
  'This is used to document a Fully Funded Return Swap.'

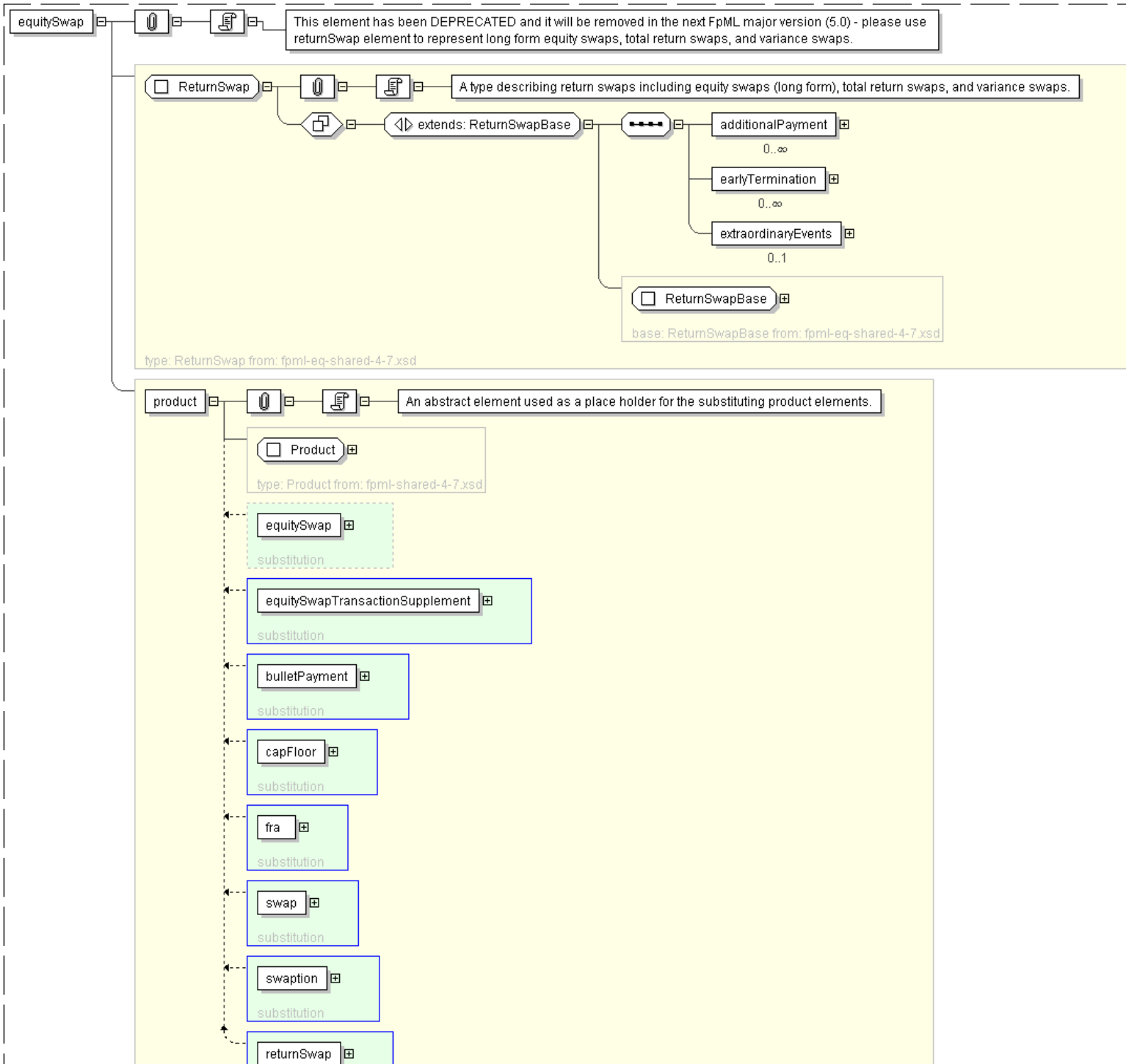
  <additionalPayment> ReturnSwapAdditionalPayment </additionalPayment> [0..*]
  'Specifies additional payment(s) between the principal parties to the trade. This
  component extends some of the features of the additionalPayment component developed by the
  FpML industry group. Appropriate discussions will determine whether it would be appropriate
  to extend the shared component in order to meet the further requirements of equity swaps.'

  <earlyTermination> ReturnSwapEarlyTermination </earlyTermination> [0..*]
  'Specifies, for one or for both the parties to the trade, the date from which it can
  early terminate it.'

  <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
  'Where the underlying is shares, specifies events affecting the issuer of those shares that
  may require the terms of the transaction to be adjusted.'
```

&lt;/equitySwap&gt;

## Diagram



substitution

substitutionGroup: product from: fpml-shared-4-7.xsd

Schema Component Representation

```
<xsd:element name="equitySwap" type="ReturnSwap"
substitutionGroup="product" deprecated="true" deprecatedReason="It has been made more
generic as returnSwap to cover return swap type products."/>
```

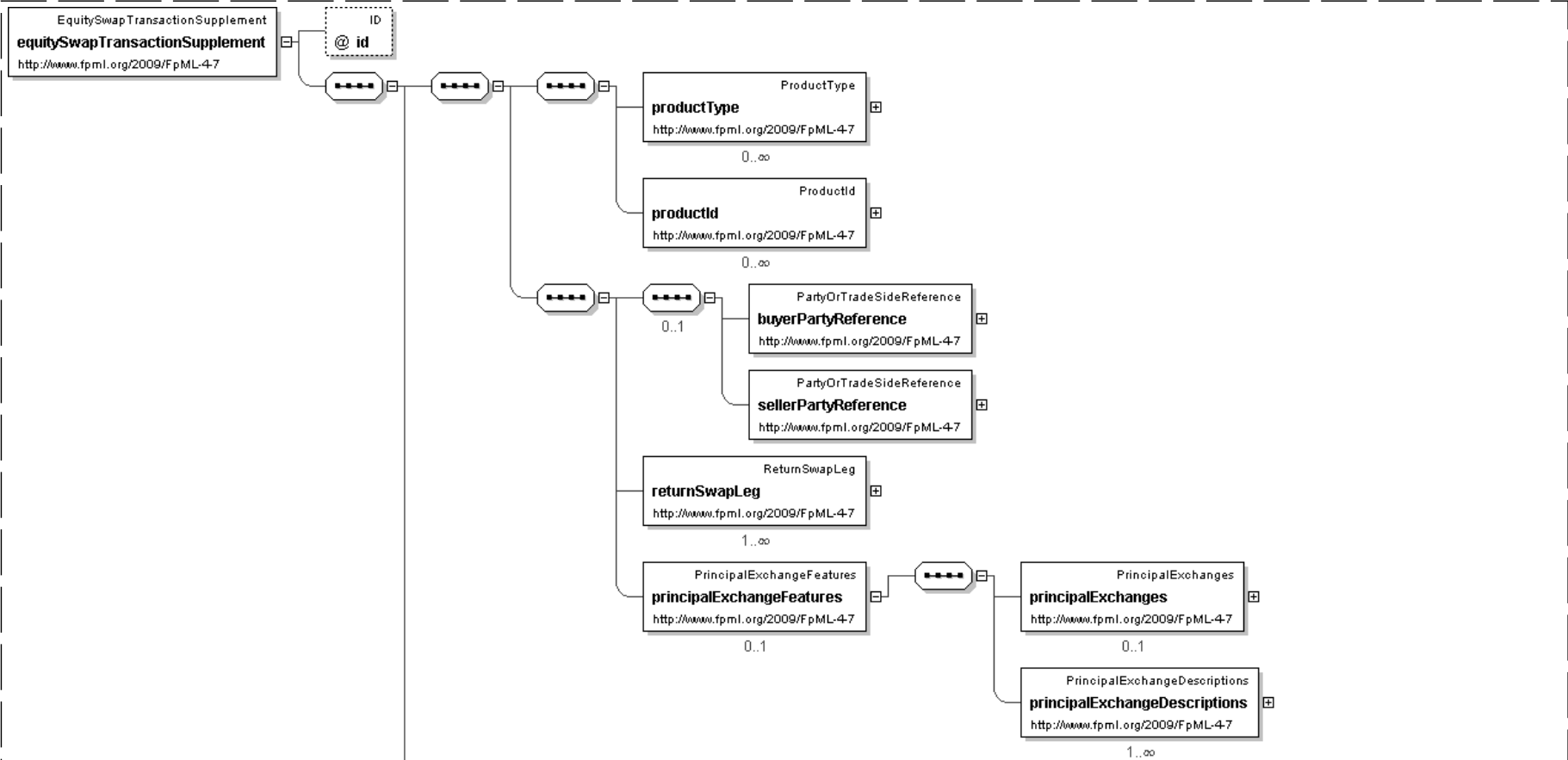
[top](#)

Element: equitySwapTransactionSupplement

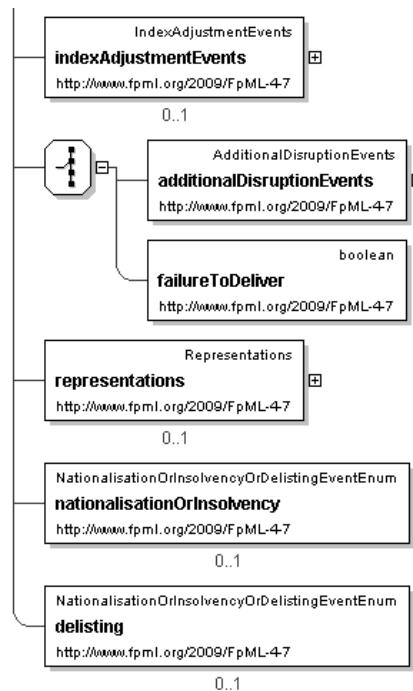
- This element can be used wherever the following element is referenced:
  - [product](#)

Name	equitySwapTransactionSupplement
Type	<a href="#">EquitySwapTransactionSupplement</a>
Nilable	no
Abstract	no
Documentation	Specifies the structure of the equity swap transaction supplement.

Logical Diagram







### XML Instance Representation

```
<equitySwapTransactionSupplement
id=" xsd:ID [0..1]">
```

```
<productType> ProductType </productType> [0..*]
```

'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

```
<productId> ProductId </productId> [0..*]
```

'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

```
Start Group: BuyerSeller.model [0..1]
```

'BuyerSeller.model has been included as an optional child of ReturnSwapBase to support the situation where an implementor wishes to indicate who has manufactured the Swap through representing them as the Seller. It may be removed in future major revisions.'

```
<buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
```

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

```
<sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
```

'A reference to the party that sells (\writes\) this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

```
End Group: BuyerSeller.model
```

```
<returnSwapLeg> ... </returnSwapLeg> [1..*]
```

```
<principalExchangeFeatures> PrincipalExchangeFeatures </principalExchangeFeatures> [0..1]
```

'This is used to document a Fully Funded Return Swap.'



```
Start Group: MutualOrOptionalEarlyTermination.model [0..1]
Start Choice [1]
  <mutualEarlyTermination> xsd:boolean </mutualEarlyTermination> [0..1]
  'Used for specifying whether the Mutual Early Termination Right that is detailed in the
  Master Confirmation will apply.'

  <optionalEarlyTermination> xsd:boolean </optionalEarlyTermination> [1]
  'A Boolean element used for specifying whether the Optional Early Termination clause
  detailed in the agreement will apply.'

  <breakFundingRecovery> xsd:boolean </breakFundingRecovery> [0..1]
  'A Boolean element used for specifying whether the Break Funding Recovery detailed in
  the agreement will apply.'

Start Sequence [0..1]
  <breakFeeElection> FeeElectionEnum </breakFeeElection> [1]
  'Defines the fee type.'

  <breakFeeRate> NonNegativeDecimal </breakFeeRate> [0..1]
End Sequence
End Choice
End Group: MutualOrOptionalEarlyTermination.model
Start Group: EquityUnderlyerProvisions.model [0..1]
Start Sequence [0..1]
  <multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]
  'Used for specifying whether additional annex terms for trades with underlyers that are
  listed on multiple exchanges will apply.'

  <multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]
  'Used for specifying additional annex terms for trades with underlyers that are listed
  on multiple exchanges.'

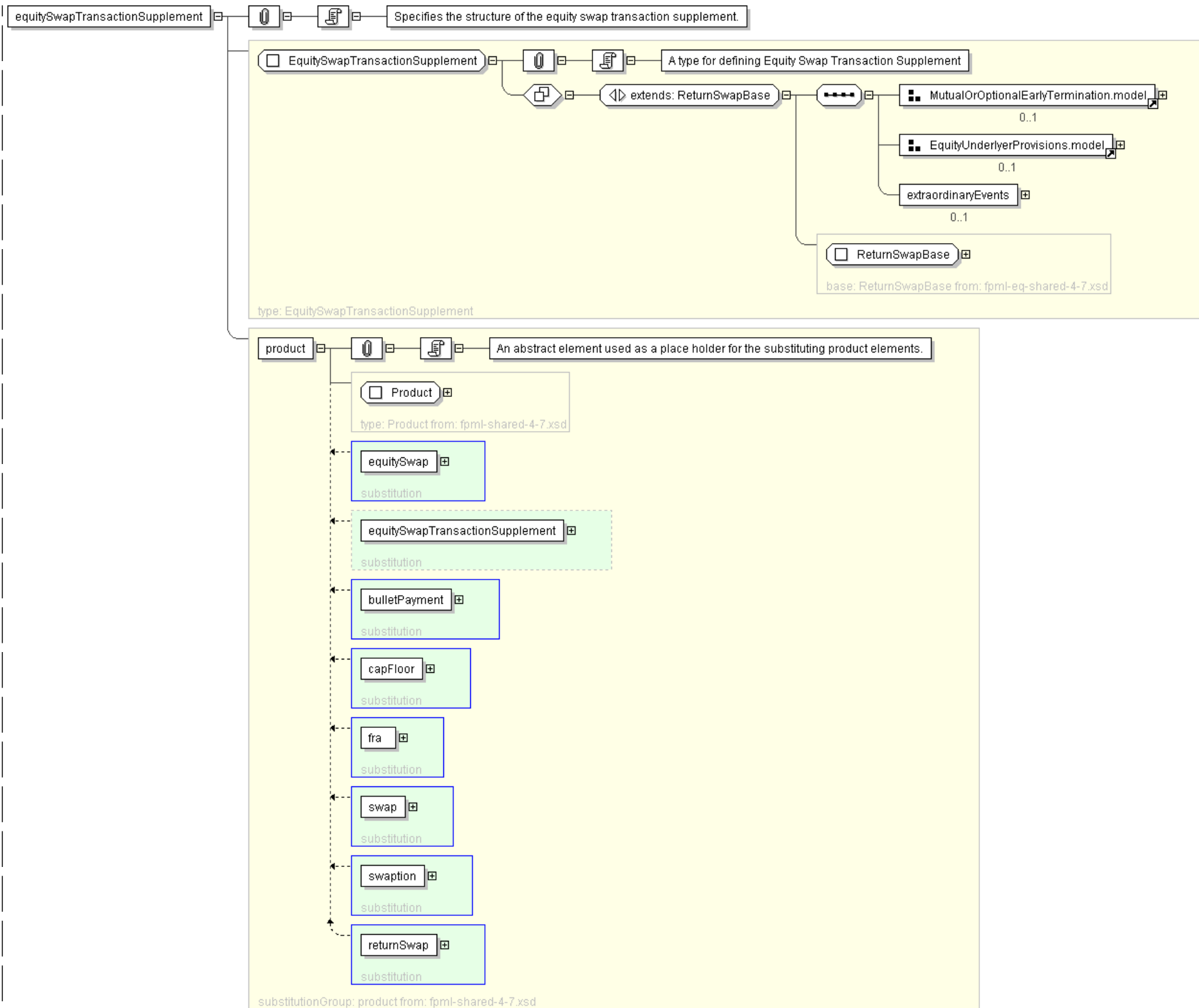
End Sequence
  <localJurisdiction> Country </localJurisdiction> [0..1]
  'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to
  determine local taxes, which shall mean taxes, duties, and similar charges imposed by
  the taxing authority of the Local Jurisdiction If this element is not present
  Local Jurisdiction is Not Applicable.'

  <relevantJurisdiction> Country </relevantJurisdiction> [0..1]
  'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used
  to determine local taxes, which shall mean taxes, duties and similar charges that would
  be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker
  Dealer assuming the Applicable Hedge Positions are held by its office in the
  Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'

End Group: EquityUnderlyerProvisions.model
  <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
  'Where the underlying is shares, specifies events affecting the issuer of those shares that
  may require the terms of the transaction to be adjusted.'

</equitySwapTransactionSupplement>
```

Diagram



Global Definitions

Complex Type: **DeprecatedEquityLeg**

Super-types:	<a href="#">ReturnSwapLeg</a> < <b>DeprecatedEquityLeg</b> (by extension)
Sub-types:	None
Name	DeprecatedEquityLeg
Used by (from the same schema document)	Element <a href="#">equityLeg</a>
Abstract	no
Documentation	This type has been DEPRECATED. It will be removed in the next FpML major version. A type describing the equity leg of a return type swap.

XML Instance Representation

```
<...
legIdentifier=" xsd:ID [0..1]
'DEPRECATED This element will be renamed to id in the next major FpML version.'

">
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

<paymentFrequency> Frequency </paymentFrequency> [0..1]
'DEPRECATED This element will be removed in the next FpML major version. Frequency at
which this leg pays.'

<effectiveDate> AdjustableOrRelativeDate </effectiveDate> [1]
'Specifies the effective date of the equity leg of the swap. When defined in relation to a
date specified somewhere else in the document (through the relativeDate component),
this element will typically point to the effective date of the other leg of the swap.'

<terminationDate> AdjustableOrRelativeDate </terminationDate> [1]
'Specifies the termination date of the equity leg of the swap. When defined in relation to
a date specified somewhere else in the document (through the relativeDate component),
this element will typically point to the termination date of the other leg of the swap.'

<underlyer> Underlyer </underlyer> [1]
'Specifies the underlying component of the return type swap, which can be either one or
many and consists in either equity, index or convertible bond component, or a combination
of these.'

<valuation> DeprecatedEquityLegValuation </valuation> [1]
'Specifies the terms of the initial price of the return type swap and of the
subsequent valuations of the equity underlyer.'

<notional> ReturnSwapNotional </notional> [1]
'Specifies the notional of a return type swap. When used in the equity leg, the definition
will typically combine the actual amount (using the notional component defined by the
FpML industry group) and the determination method. When used in the interest leg,
the definition will typically point to the definition of the equity leg.'
```

```
<equityAmount> ReturnSwapAmount </equityAmount> [1]
```

'Specifies, in relation to each Equity Payment Date, the amount to which the Equity Payment Date relates. Unless otherwise specified, this term has the meaning defined in the ISDA 2002 Equity Derivatives Definitions.'

```
<return> Return </return> [1]
```

'Specifies the conditions under which dividend affecting the underlying will be paid to the receiver of the equity amounts.'

```
<notionalAdjustments> NotionalAdjustmentEnum </notionalAdjustments> [1]
```

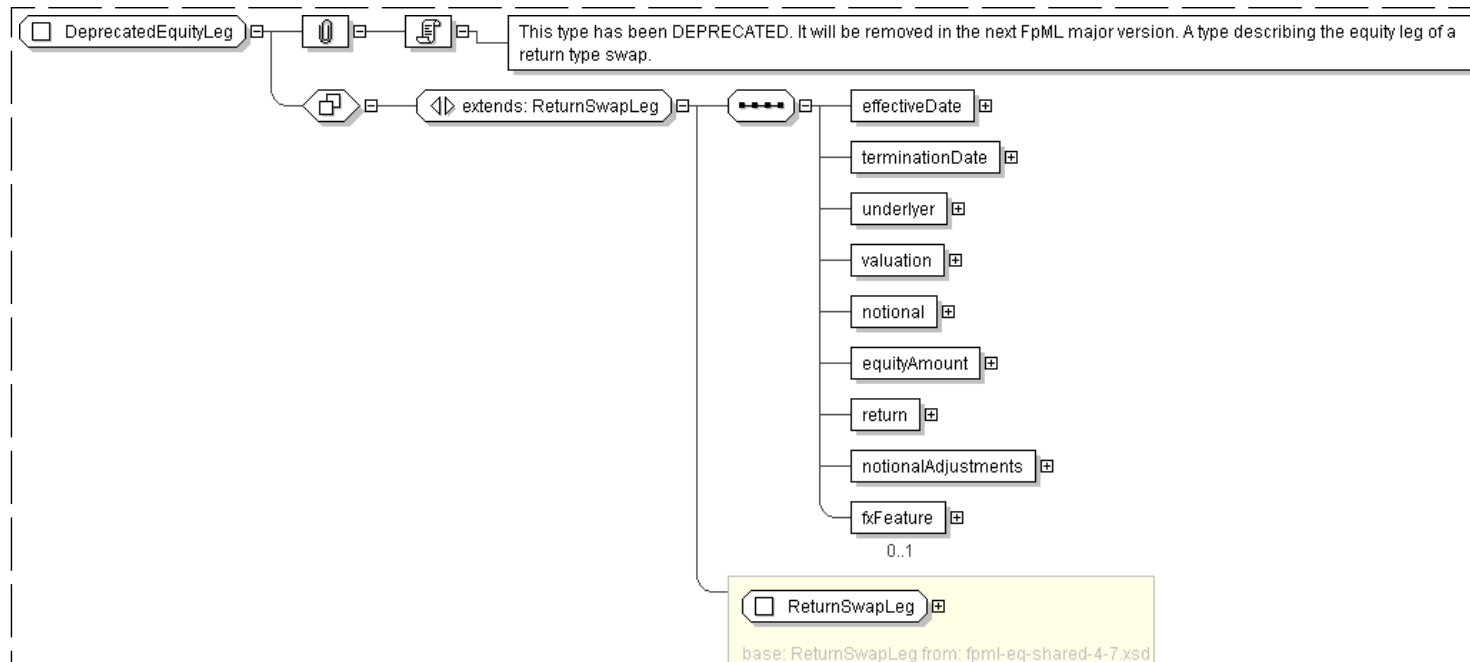
'Specifies the conditions that govern the adjustment to the number of units of the equity swap.'

```
<fxFeature> FxFeature </fxFeature> [0..1]
```

'A quanto or composite FX feature.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="DeprecatedEquityLeg" deprecated="true" deprecatedReason="It has
been made more generic as ReturnLeg to cover return swap type products.">
  <xsd:complexContent>
    <xsd:extension base="ReturnSwapLeg">
      <xsd:sequence>
        <xsd:element name="effectiveDate" type="AdjustableOrRelativeDate"/>
        <xsd:element name="terminationDate" type="AdjustableOrRelativeDate"/>
        <xsd:element name="underlyer" type="Underlyer"/>
        <xsd:element name="valuation" type="DeprecatedEquityLegValuation"/>
        <xsd:element name="notional" type="ReturnSwapNotional"/>
        <xsd:element name="equityAmount" type="ReturnSwapAmount"/>
        <xsd:element name="return" type="Return"/>
        <xsd:element name="notionalAdjustments" type="NotionalAdjustmentEnum"/>
        <xsd:element name="fxFeature" type="FxFeature" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

```
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: **DeprecatedEquityLegValuation**

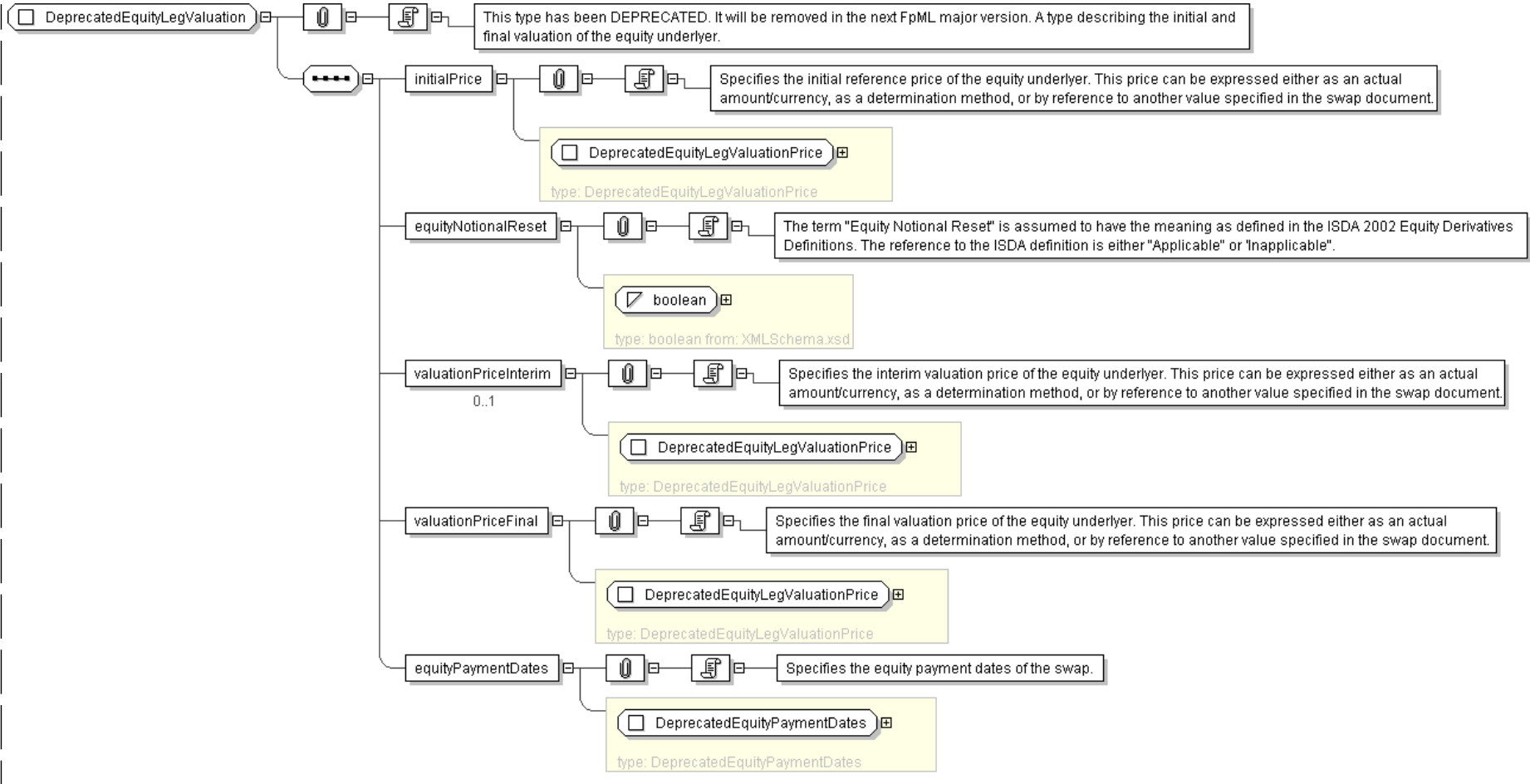
Super-types:	None
Sub-types:	None

Name	DeprecatedEquityLegValuation
Used by (from the same schema document)	Complex Type <a href="#">DeprecatedEquityLeg</a>
Abstract	no
Documentation	This type has been DEPRECATED. It will be removed in the next FpML major version. A type describing the initial and final valuation of the equity underlyer.

XML Instance Representation

<pre>&lt;...&gt; &lt;initialPrice&gt; <a href="#">DeprecatedEquityLegValuationPrice</a> &lt;/initialPrice&gt; [1] 'Specifies the initial reference price of the equity underlyer. This price can be expressed either as an actual amount/currency, as a determination method, or by reference to another value specified in the swap document.'</pre>
<pre>&lt;equityNotionalReset&gt; <a href="#">xsd:boolean</a> &lt;/equityNotionalReset&gt; [1] 'The term \"Equity Notional Reset\" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions. The reference to the ISDA definition is either \"Applicable\" or 'Inapplicable\".'</pre>
<pre>&lt;valuationPriceInterim&gt; <a href="#">DeprecatedEquityLegValuationPrice</a> &lt;/valuationPriceInterim&gt; [0..1] 'Specifies the interim valuation price of the equity underlyer. This price can be expressed either as an actual amount/currency, as a determination method, or by reference to another value specified in the swap document.'</pre>
<pre>&lt;valuationPriceFinal&gt; <a href="#">DeprecatedEquityLegValuationPrice</a> &lt;/valuationPriceFinal&gt; [1] 'Specifies the final valuation price of the equity underlyer. This price can be expressed either as an actual amount/currency, as a determination method, or by reference to another value specified in the swap document.'</pre>
<pre>&lt;equityPaymentDates&gt; <a href="#">DeprecatedEquityPaymentDates</a> &lt;/equityPaymentDates&gt; [1] 'Specifies the equity payment dates of the swap.'</pre>
<pre>&lt;/...&gt;</pre>

Diagram



Schema Component Representation

```
<xsd:complexType name="DeprecatedEquityLegValuation" deprecated="true" deprecatedReason="It
has been made more generic as ReturnLegValuation to cover return swap type products.">
  <xsd:sequence>
    <xsd:element name="initialPrice" type="DeprecatedEquityLegValuationPrice" />
    <xsd:element name="equityNotionalReset" type="xsd:boolean" />
    <xsd:element name="valuationPriceInterim" type="DeprecatedEquityLegValuationPrice"
      minOccurs="0" />
    <xsd:element name="valuationPriceFinal" type="DeprecatedEquityLegValuationPrice" />
    <xsd:element name="equityPaymentDates" type="DeprecatedEquityPaymentDates" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **DeprecatedEquityLegValuationPrice**

Super-types:	<a href="#">Price</a> < <b>DeprecatedEquityLegValuationPrice</b> (by extension)
Sub-types:	None

Name	DeprecatedEquityLegValuationPrice
------	-----------------------------------

Used by (from the same schema document)	Complex Type <a href="#">DeprecatedEquityLegValuation</a> , Complex Type <a href="#">DeprecatedEquityLegValuation</a> , Complex Type <a href="#">DeprecatedEquityLegValuation</a>
Abstract	no
Documentation	This type has been DEPRECATED. It will be removed in the next FpML major version.

## XML Instance Representation

&lt;...&gt;

<commission> [Commission](#) </commission> [0..1]

'This optional component specifies the commission to be charged for executing the hedge transactions.'

Start [Choice](#) [1]<determinationMethod> [DeterminationMethod](#) </determinationMethod> [1]

'Specifies the method according to which an amount or a date is determined.'

Start Group: [EquityPrice.model](#) [0..1]<grossPrice> [ActualPrice](#) </grossPrice> [0..1]

'Specifies the price of the underlyer, before commissions.'

<netPrice> [ActualPrice](#) </netPrice> [1]

'Specifies the price of the underlyer, net of commissions.'

<accruedInterestPrice> [xsd:decimal](#) </accruedInterestPrice> [0..1]

'Specifies the accrued interest that are part of the dirty price in the case of a fixed income security or a convertible bond. Expressed in percentage of the notional.'

<fxConversion> [FxConversion](#) </fxConversion> [0..1]

'Specifies the currency conversion rate that applies to an amount. This rate can either be defined elsewhere in the document (case of a quanto swap), or explicitly described through this component.'

End Group: [EquityPrice.model](#)<amountRelativeTo> [AmountReference](#) </amountRelativeTo> [1]

'The href attribute value will be a pointer style reference to the element or component elsewhere in the document where the anchor amount is defined.'

<grossPrice> [ActualPrice](#) </grossPrice> [0..1]

'Specifies the price of the underlyer, before commissions.'

<netPrice> [ActualPrice](#) </netPrice> [1]

'Specifies the price of the underlyer, net of commissions.'

<accruedInterestPrice> [xsd:decimal](#) </accruedInterestPrice> [0..1]

'Specifies the accrued interest that are part of the dirty price in the case of a fixed income security or a convertible bond. Expressed in percentage of the notional.'

<fxConversion> [FxConversion](#) </fxConversion> [0..1]

'Specifies the currency conversion rate that applies to an amount. This rate can either be defined elsewhere in the document (case of a quanto swap), or explicitly described through this component.'

End Choice

<cleanNetPrice> [xsd:decimal](#) </cleanNetPrice> [0..1]

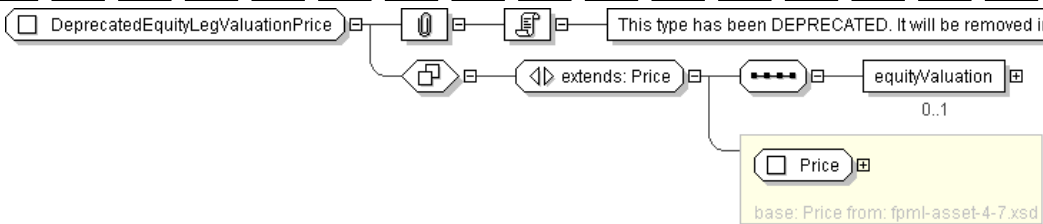
'The net price excluding accrued interest. The \"Dirty Price\" for bonds is put in the \"netPrice\" element, which includes accrued interest. Thus netPrice - cleanNetPrice = accruedInterest. The currency and price expression for this field are the same as those for the (dirty) netPrice.'

<quotationCharacteristics> [QuotationCharacteristics](#) </quotationCharacteristics> [0..1]

'Allows information about how the price was quoted to be provided.'

```
<equityValuation> EquityValuation </equityValuation> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DeprecatedEquityLegValuationPrice"
  deprecated="true" deprecatedReason="It has been made more generic as ReturnLegValuationPrice
  to cover return swap type products.">
  <xsd:complexContent>
    <xsd:extension base=" Price " >
      <xsd:sequence>
        <xsd:element name="equityValuation" type=" EquityValuation " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **DeprecatedEquityPaymentDates**

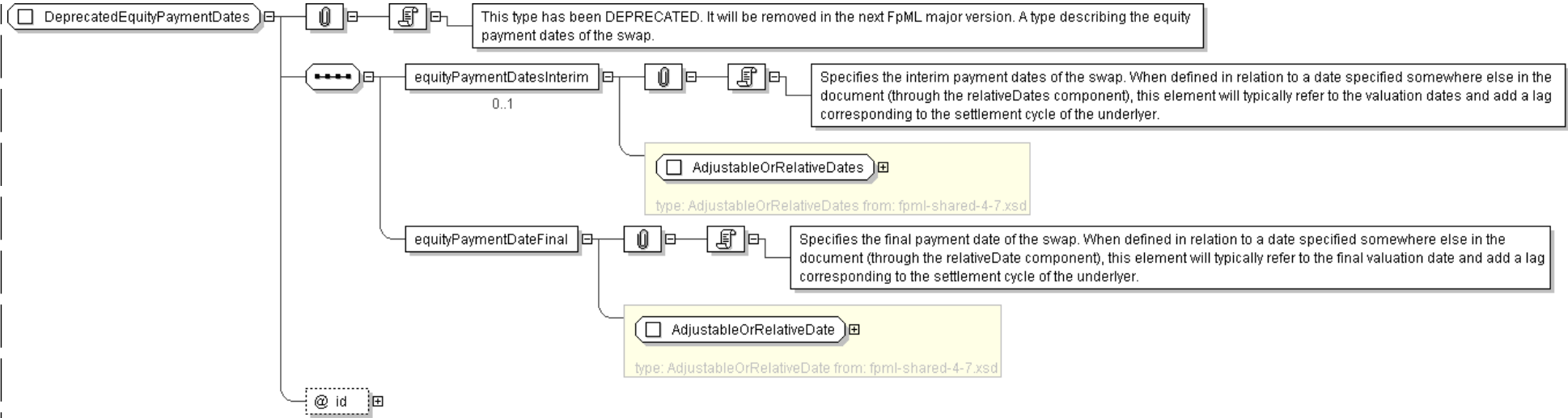
Super-types:	None
Sub-types:	None
Name	DeprecatedEquityPaymentDates
Used by (from the same schema document)	Complex Type <a href="#">DeprecatedEquityLegValuation</a>
Abstract	no
Documentation	This type has been DEPRECATED. It will be removed in the next FpML major version. A type describing the equity payment dates of the swap.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <equityPaymentDatesInterim> AdjustableOrRelativeDates </equityPaymentDatesInterim> [0..1]
  'Specifies the interim payment dates of the swap. When defined in relation to a date
  specified somewhere else in the document (through the relativeDates component), this
  element will typically refer to the valuation dates and add a lag corresponding to
  the settlement cycle of the underlying.'
  <equityPaymentDateFinal> AdjustableOrRelativeDate </equityPaymentDateFinal> [1]
  'Specifies the final payment date of the swap. When defined in relation to a date
  specified somewhere else in the document (through the relativeDate component), this
  element will typically refer to the final valuation date and add a lag corresponding to
  the settlement cycle of the underlying.'
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="DeprecatedEquityPaymentDates" deprecated="true" deprecatedReason="It has been made more generic as ReturnLegPaymentDates to cover return swap type products.">
  <xsd:sequence>
    <xsd:element name="equityPaymentDatesInterim" type="AdjustableOrRelativeDates" minOccurs="0"/>
    <xsd:element name="equityPaymentDateFinal" type="AdjustableOrRelativeDate"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

[top](#)

Complex Type: **EquitySwapTransactionSupplement**

Super-types:	<a href="#">ReturnSwapBase</a> < <b>EquitySwapTransactionSupplement</b> (by extension)
Sub-types:	None
Name	EquitySwapTransactionSupplement
Used by (from the same schema document)	Element <a href="#">equitySwapTransactionSupplement</a>
Abstract	no
Documentation	A type for defining Equity Swap Transaction Supplement

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'

  Start Group: BuyerSeller.model [0..1]
  'BuyerSeller.model has been included as an optional child of ReturnSwapBase to support the situation where an implementor wishes to indicate who has manufactured the Swap
```

through representing them as the Seller. It may be removed in future major revisions.'

<buyerPartyReference> [PartyOrTradeSideReference](#) </buyerPartyReference> [1]

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAS this the fixed rate payer.'

<sellerPartyReference> [PartyOrTradeSideReference](#) </sellerPartyReference> [1]

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAS this is the floating rate payer.'

End Group: [BuyerSeller.model](#)

<returnSwapLeg> ... </returnSwapLeg> [1..\*]

<principalExchangeFeatures> [PrincipalExchangeFeatures](#) </principalExchangeFeatures> [0..1]

'This is used to document a Fully Funded Return Swap.'

Start Group: [MutualOrOptionalEarlyTermination.model](#) [0..1]

Start [Choice](#) [1]

<mutualEarlyTermination> [xsd:boolean](#) </mutualEarlyTermination> [0..1]

'Used for specifying whether the Mutual Early Termination Right that is detailed in the Master Confirmation will apply.'

<optionalEarlyTermination> [xsd:boolean](#) </optionalEarlyTermination> [1]

'A Boolean element used for specifying whether the Optional Early Termination clause detailed in the agreement will apply.'

<breakFundingRecovery> [xsd:boolean](#) </breakFundingRecovery> [0..1]

'A Boolean element used for specifying whether the Break Funding Recovery detailed in the agreement will apply.'

Start [Sequence](#) [0..1]

<breakFeeElection> [FeeElectionEnum](#) </breakFeeElection> [1]

'Defines the fee type.'

<breakFeeRate> [NonNegativeDecimal](#) </breakFeeRate> [0..1]

End Sequence

End Choice

End Group: [MutualOrOptionalEarlyTermination.model](#)

Start Group: [EquityUnderlyerProvisions.model](#) [0..1]

Start [Sequence](#) [0..1]

<multipleExchangeIndexAnnexFallback> [xsd:boolean](#) </multipleExchangeIndexAnnexFallback> [1]

'Used for specifying whether additional annex terms for trades with underlyers that are listed on multiple exchanges will apply.'

<multipleExchangeAnnex> [MultipleExchangeAnnex](#) </multipleExchangeAnnex> [0..1]

'Used for specifying additional annex terms for trades with underlyers that are listed on multiple exchanges.'

End Sequence

<localJurisdiction> [Country](#) </localJurisdiction> [0..1]

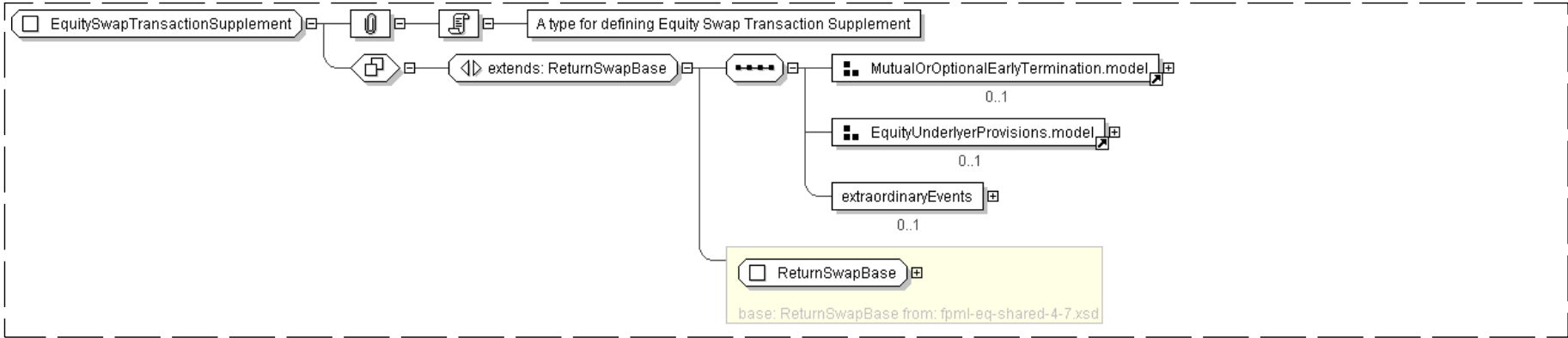
'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties, and similar charges imposed by the taxing authority of the Local Jurisdiction If this element is not present Local Jurisdiction is Not Applicable.'

<relevantJurisdiction> [Country](#) </relevantJurisdiction> [0..1]

'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used to determine local taxes, which shall mean taxes, duties and similar charges that would be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker Dealer assuming the Applicable Hedge Positions are held by its office in the Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'

```
End Group: EquityUnderlyerProvisions.model
<extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
'Where the underlying is shares, specifies events affecting the issuer of those shares that may require the terms of the transaction to be adjusted.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EquitySwapTransactionSupplement">
  <xsd:complexContent>
    <xsd:extension base="ReturnSwapBase">
      <xsd:sequence>
        <xsd:group ref="MutualOrOptionalEarlyTermination.model" minOccurs="0"/>
        <xsd:group ref="EquityUnderlyerProvisions.model" minOccurs="0"/>
        <xsd:element name="extraordinaryEvents" type="ExtraordinaryEvents" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>
If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.	
Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
```

```
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base=" Address ">
      <sequence>
        <element name="state" type=" AusStates "/>
        <element name="postcode">
          <simpleType>
            <restriction base=" string ">
              <pattern value="[1-9][0-9]{3}" />
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type=" string " fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi : type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: <http://www.w3.org/TR/>

[xmlschema-1/#cIdentity-constraint\\_Definitions](#).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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## Schema Document Properties

Target Namespace	http://www.fpml.org/2009/FpML-4-7
Version	\$Revision: 6399 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>fpml-doc-4-7.xsd</li><li>fpml-asset-4-7.xsd</li></ul></li></ul>

Declared Namespaces

Prefix	Namespace
Default namespace	http://www.fpml.org/2009/FpML-4-7
ecore	http://www.eclipse.org/emf/2002/Ecore
xml	http://www.w3.org/XML/1998/namespace
xsd	http://www.w3.org/2001/XMLSchema
fpml	http://www.fpml.org/2009/FpML-4-7

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6399 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-doc-4-7.xsd"/>
  <xsd:include schemaLocation="fpml-asset-4-7.xsd"/>
  ...
</xsd:schema>
```

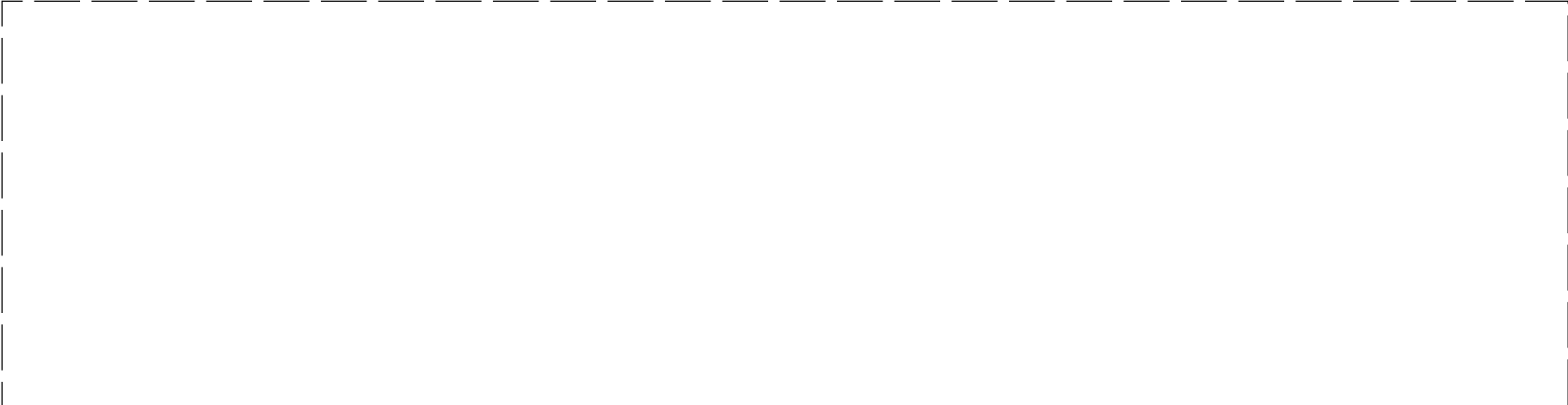
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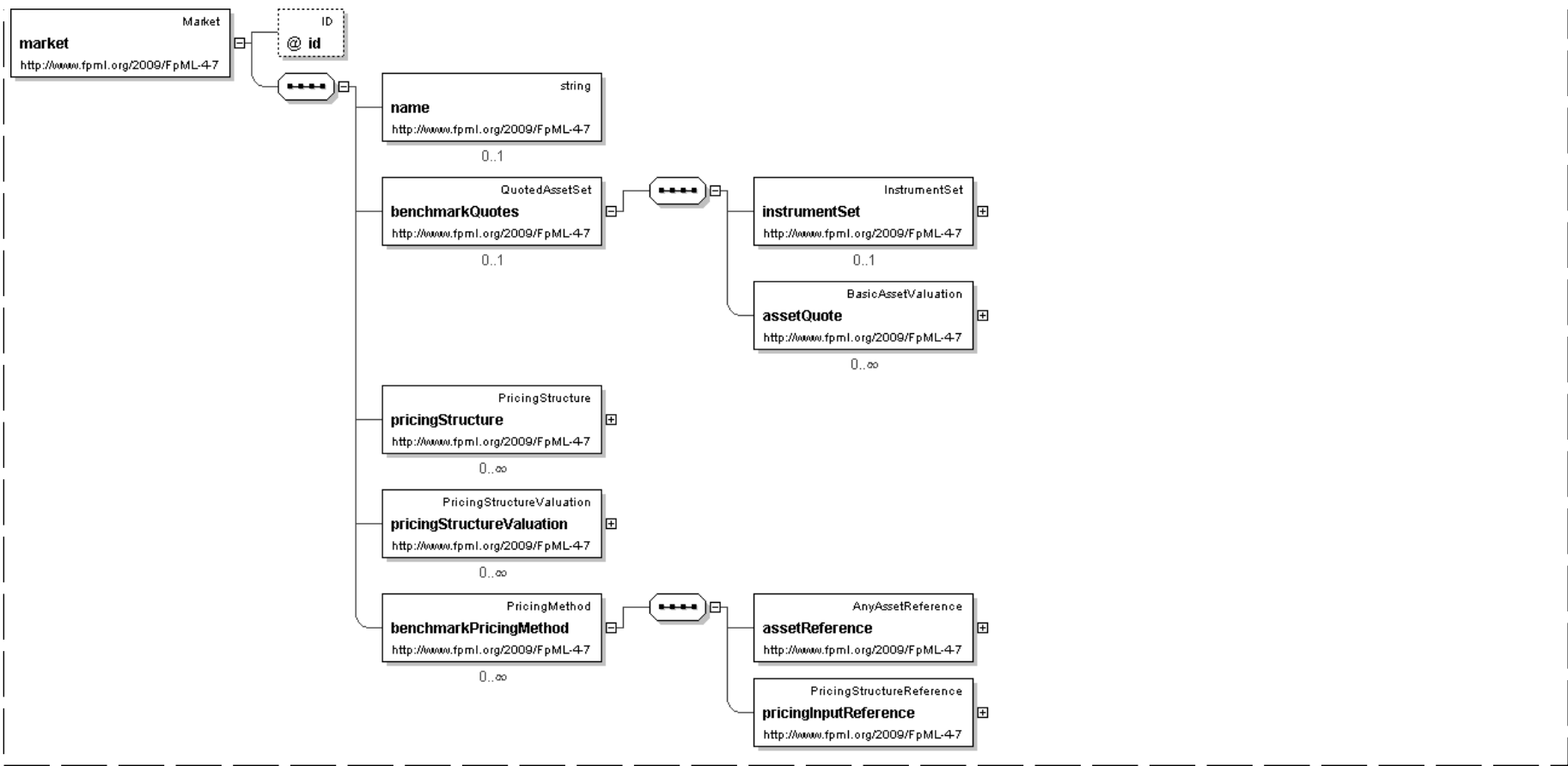
Global Declarations

Element: **market**

Name	market
Type	<a href="#">Market</a>
Nillable	no
Abstract	no
Documentation	This is a global element used for creating global types. It holds Market information, e.g. curves, surfaces, quotes, etc.

Logical Diagram





XML Instance Representation

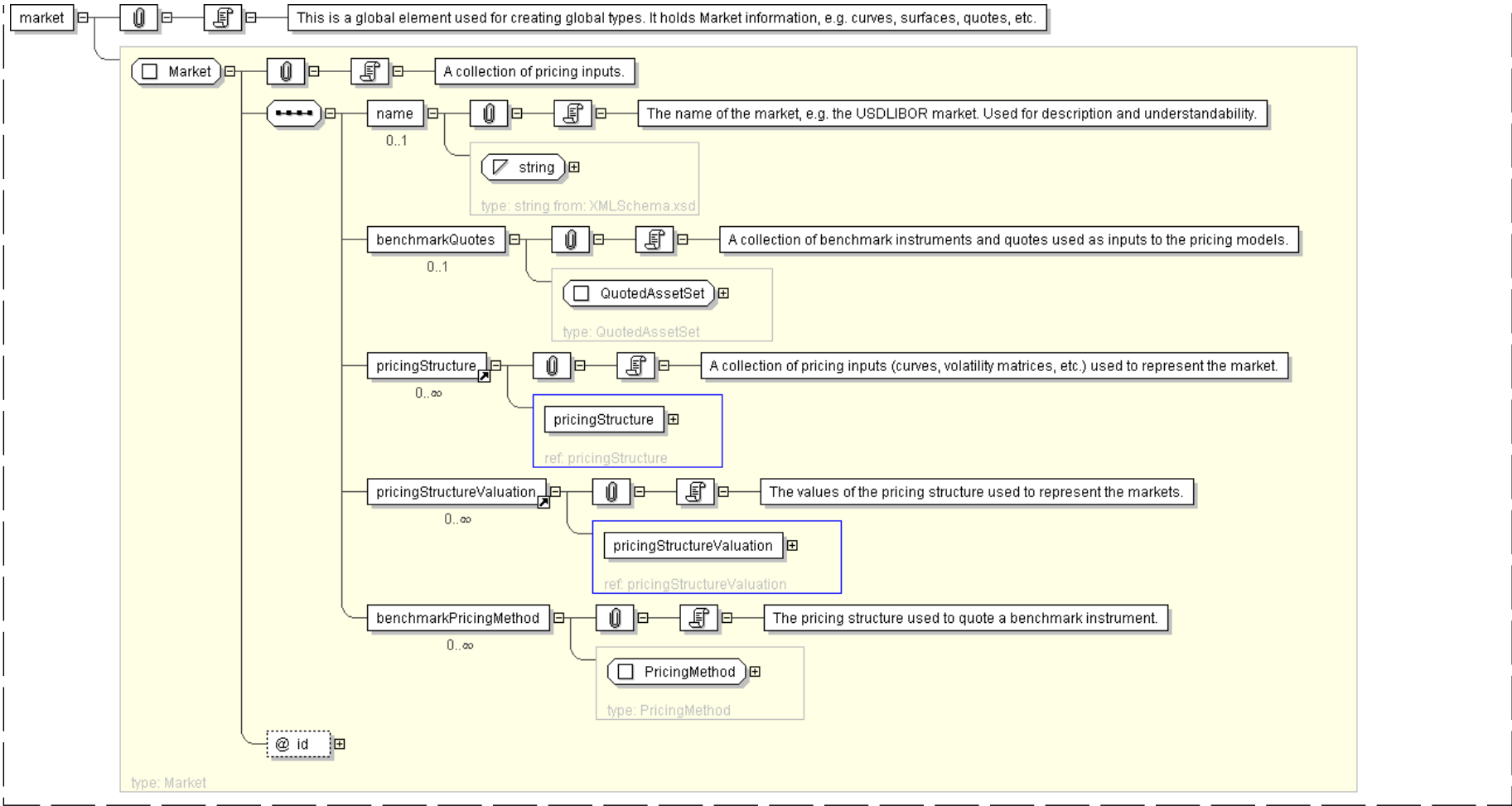
```
<market
id=" xsd:ID [0..1]">
  <name> xsd:string </name> [0..1]
  'The name of the market, e.g. the USDLIBOR market. Used for description and understandability.'

  <benchmarkQuotes> QuotedAssetSet </benchmarkQuotes> [0..1]
  'A collection of benchmark instruments and quotes used as inputs to the pricing models.'

  <pricingStructure> ... </pricingStructure> [0..*]
  'A collection of pricing inputs (curves, volatility matrices, etc.) used to represent
the market.'
```

Diagram





Schema Component Representation

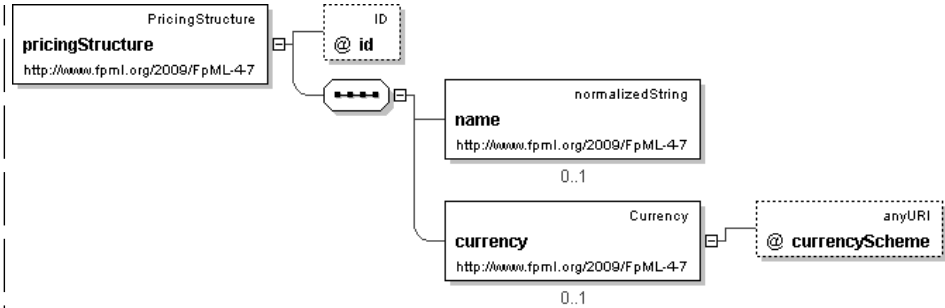
```
<xsd:element name="market" type=" Market " />
```

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Element: pricingStructure

Name	pricingStructure
Used by (from the same schema document)	Complex Type <a href="#">Market</a>
Type	<a href="#">PricingStructure</a>
Nilable	no
Abstract	yes

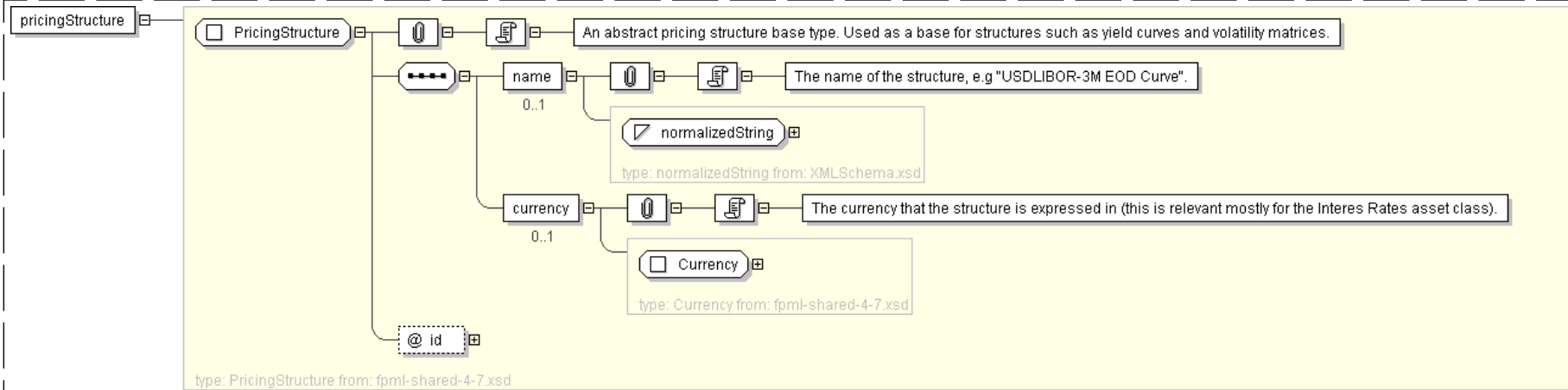
Logical Diagram



XML Instance Representation

```
<pricingStructure
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'Currency </currency> [0..1]
  'The currency that the structure is expressed in (this is relevant mostly for the Interes
Rates asset class).'
```

Diagram



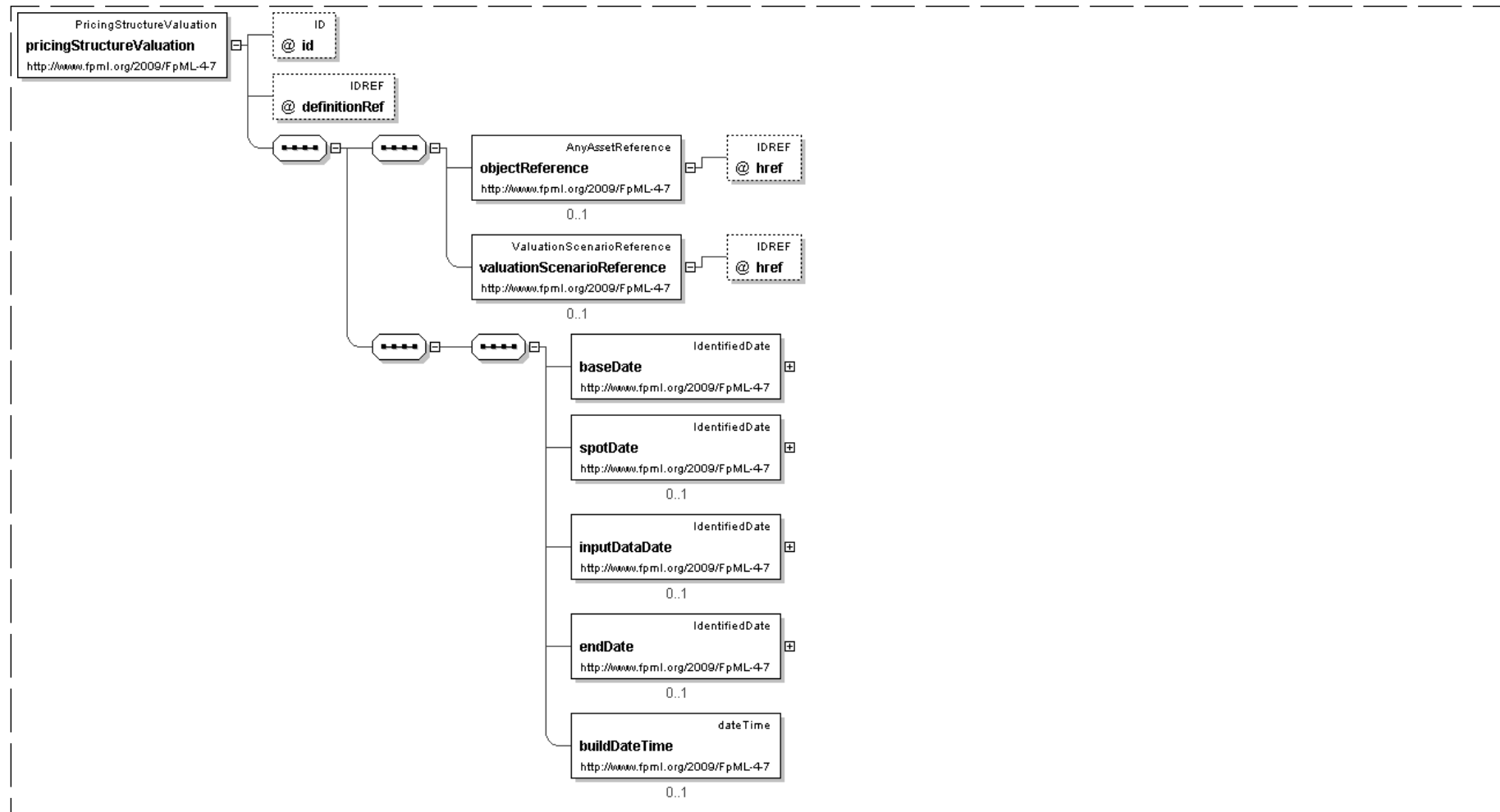
Schema Component Representation

```
<xsd:element name="pricingStructure" type=" PricingStructure " abstract="true"/>
```

Element: **pricingStructureValuation**

Name	pricingStructureValuation
Used by (from the same schema document)	Complex Type <a href="#">Market</a>
Type	<a href="#">PricingStructureValuation</a>
Nilable	no
Abstract	yes

## Logical Diagram



## XML Instance Representation

```

<pricingStructureValuation
id=" xsd:ID [0..1]"
definitionRef=" xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'

">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'

  <baseDate> IdentifiedDate </baseDate> [1]
  'The base date for which the structure applies, i.e. the curve date. Normally this will
  align with the valuation date.'

```

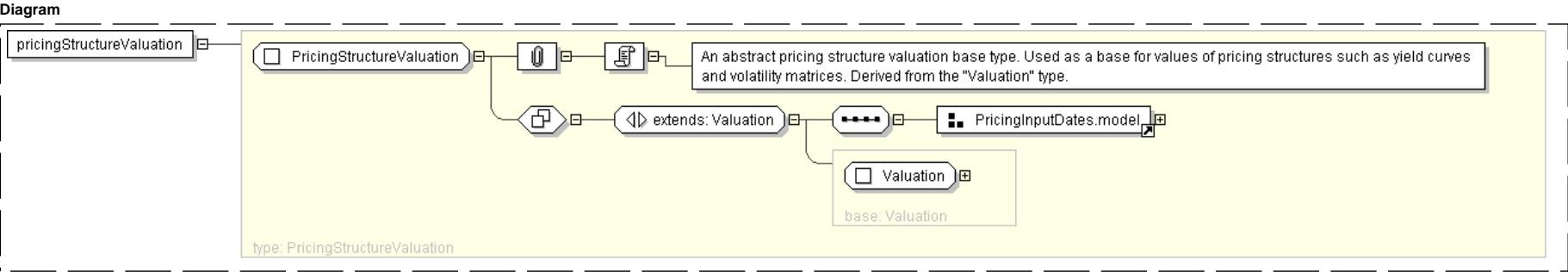
```
<spotDate> IdentifiedDate </spotDate> [0..1]
'The spot settlement date for which the structure applies, normally 0-2 days after the
base date. The difference between the baseDate and the spotDate is termed the settlement
lag, and is sometimes called \"days to spot\".'
```

```
<inputDataDate> IdentifiedDate </inputDataDate> [0..1]
'The date from which the input data used to construct the pricing input was obtained. Often
the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in
which input data from one date is used to generate a curve for a later date.'
```

```
<endDate> IdentifiedDate </endDate> [0..1]
'The last date for which data is supplied in this pricing input.'
```

```
<buildDateTime> xsd:dateTime </buildDateTime> [0..1]
'The date and time when the pricing input was generated.'
```

```
</pricingStructureValuation>
```



Schema Component Representation

```
<xsd:element name="pricingStructureValuation" type=" PricingStructureValuation
" abstract="true"/>
```

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Global Definitions

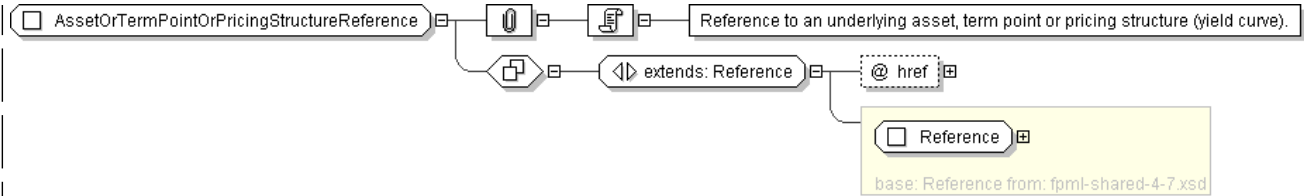
Complex Type: **AssetOrTermPointOrPricingStructureReference**

Super-types:	<a href="#">Reference</a> < <b>AssetOrTermPointOrPricingStructureReference</b> (by extension)
Sub-types:	None
Name	AssetOrTermPointOrPricingStructureReference
Used by (from the same schema document)	Complex Type <a href="#">PricingParameterDerivative</a> , Complex Type <a href="#">PricingParameterShift</a>
Abstract	no
Documentation	Reference to an underlying asset, term point or pricing structure (yield curve).

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AssetOrTermPointOrPricingStructureReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **BasicAssetValuation**

Super-types:	<a href="#">Valuation</a> < <b>BasicAssetValuation</b> (by extension)
Sub-types:	None

Name	BasicAssetValuation
Used by (from the same schema document)	Complex Type <a href="#">QuotedAssetSet</a>
Abstract	no
Documentation	A structure that holds a set of measures about an asset.

XML Instance Representation

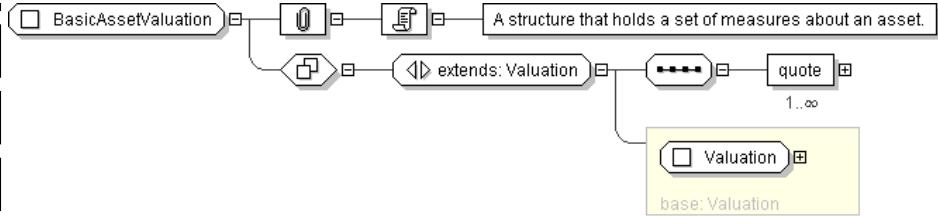
```
<...
id="xsd:ID [0..1]"
definitionRef="xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'
">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'

  <quote> BasicQuotation </quote> [1..*]
  'One or more numerical measures relating to the asset, possibly together with sensitivities
  of that measure to pricing inputs'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BasicAssetValuation">
  <xsd:complexContent>
    <xsd:extension base="Valuation" />
    <xsd:sequence>
      <xsd:element name="quote" type="BasicQuotation" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **DenominatorTerm**

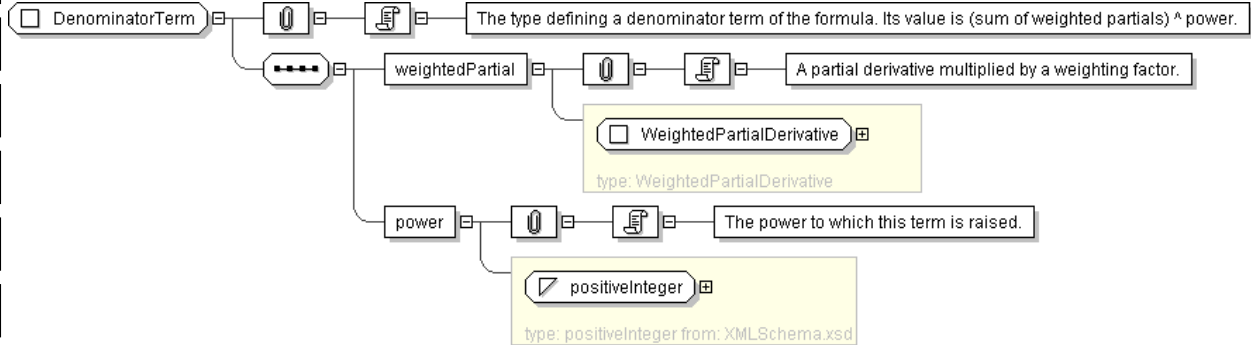
Super-types:	None
Sub-types:	None
Name	DenominatorTerm
Used by (from the same schema document)	Complex Type <a href="#">DerivativeFormula</a>
Abstract	no
Documentation	The type defining a denominator term of the formula. Its value is (sum of weighted partials) ^ power.

XML Instance Representation

```
<...>
  <weightedPartial> WeightedPartialDerivative </weightedPartial> [1]
  'A partial derivative multiplied by a weighting factor.'

  <power> xsd:positiveInteger </power> [1]
  'The power to which this term is raised.'
</...>
```

Diagram



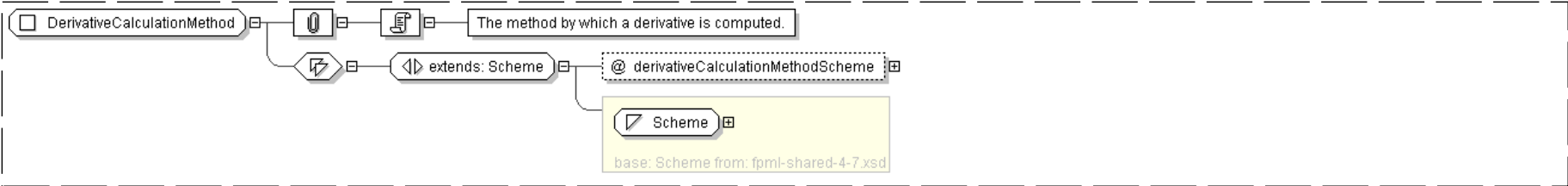
Complex Type: DerivativeCalculationMethod

Super-types:	<a href="#">Scheme</a> < DerivativeCalculationMethod (by extension)
Sub-types:	None
Name	DerivativeCalculationMethod
Used by (from the same schema document)	Complex Type <a href="#">DerivativeCalculationProcedure</a>
Abstract	no
Documentation	The method by which a derivative is computed.

XML Instance Representation

```
<...  
derivativeCalculationMethodScheme=" xsd:anyURI [0..1]">  
Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DerivativeCalculationMethod">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="derivativeCalculationMethodScheme" type=" xsd:anyURI " default="http://  
        www.fpml.org/coding-scheme/derivative-calculation-method"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: DerivativeCalculationProcedure

Super-types:	None
Sub-types:	None
Name	DerivativeCalculationProcedure
Used by (from the same schema document)	Complex Type <a href="#">PricingParameterDerivative</a> , Complex Type <a href="#">SensitivitySetDefinition</a>
Abstract	no
Documentation	A description of how a numerical derivative is computed.

XML Instance Representation

```
<...>
  <method> DerivativeCalculationMethod </method> [0..1]
  'The method by which a derivative is computed, e.g. analytic, numerical model,
  perturbation, etc.'
```

Start Group: DerivativeCalculationParameters.model [0..1]

Start Choice [1]

```
  <perturbationAmount> xsd:decimal </perturbationAmount> [0..1]
  'The size and direction of the perturbation used to compute the derivative, e.g. 0.0001 = 1 bp.'
```

```
  <averaged> xsd:boolean </averaged> [1]
  'The value is calculated by perturbing by the perturbationAmount and then the negative of
  the perturbationAmount and then averaging the two values (i.e. the value is half of
  the difference between perturbing up and perturbing down).'
```

```
  <perturbationType> PerturbationType </perturbationType> [0..1]
  'The type of perturbation, if any, used to compute the derivative (Absolute vs Relative).'
```

```
  <derivativeFormula> xsd:string </derivativeFormula> [0..1]
  'The formula used to compute the derivative (perhaps could be updated to use the Formula
  type in EQS).'
```

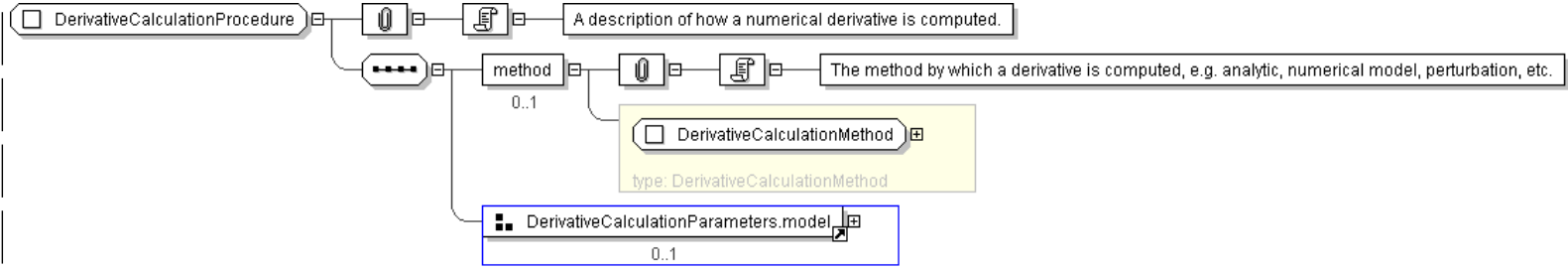
```
  <replacementMarketInput> PricingStructureReference </replacementMarketInput> [1]
  'A reference to the replacement version of the market input, e.g. a bumped yield curve.'
```

End Choice

End Group: DerivativeCalculationParameters.model

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DerivativeCalculationProcedure">
  <xsd:sequence>
    <xsd:element name="method" type="DerivativeCalculationMethod" minOccurs="0"/>
    <xsd:group ref="DerivativeCalculationParameters.model" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **DerivativeFormula**

Super-types:	None
Sub-types:	None
Name	DerivativeFormula



Used by (from the same schema document)	Model Group <a href="#">ComputedDerivative.model</a>
Abstract	no
Documentation	A formula for computing a complex derivative from partial derivatives. Its value is the sum of the terms divided by the product of the denominator terms.

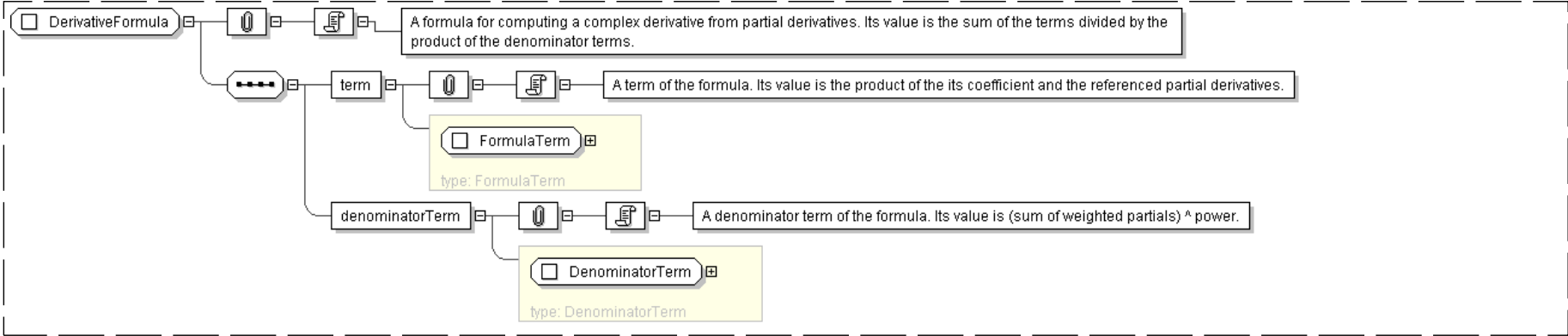
XML Instance Representation

```
<...>
  <term> FormulaTerm </term> [1]
  'A term of the formula. Its value is the product of the its coefficient and the
  referenced partial derivatives.'

  <denominatorTerm> DenominatorTerm </denominatorTerm> [1]
  'A denominator term of the formula. Its value is (sum of weighted partials) ^ power.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DerivativeFormula">
  <xsd:sequence>
    <xsd:element name="term" type="FormulaTerm" />
    <xsd:element name="denominatorTerm" type="DenominatorTerm" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FormulaTerm**

Super-types:	None
Sub-types:	None

Name	FormulaTerm
Used by (from the same schema document)	Complex Type <a href="#">DerivativeFormula</a>
Abstract	no
Documentation	A type defining a term of the formula. Its value is the product of the its coefficient and the referenced partial derivatives.

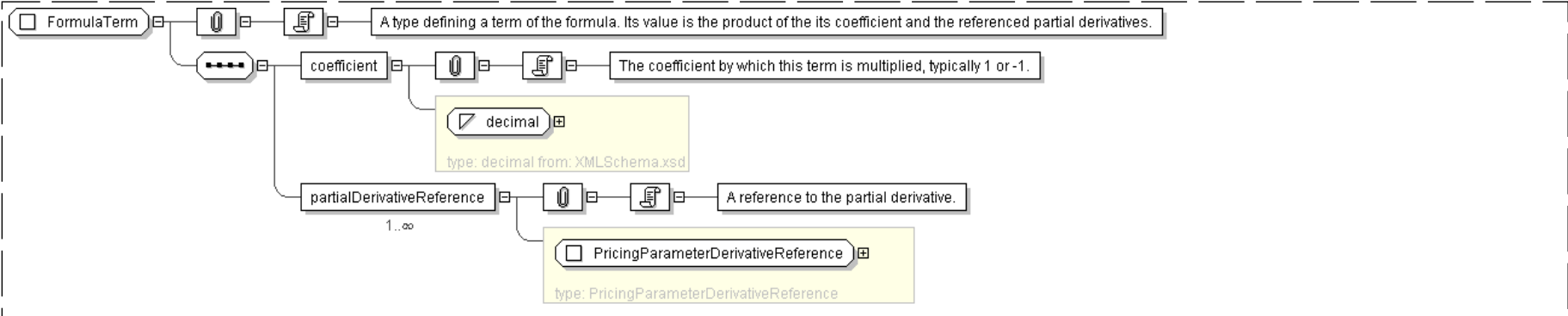
XML Instance Representation

```
<...>
  <coefficient> xsd:decimal </coefficient> [1]
  'The coefficient by which this term is multiplied, typically 1 or -1.'

  <partialDerivativeReference> PricingParameterDerivativeReference </
```

```
partialDerivativeReference> [1..*]
'A reference to the partial derivative.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FormulaTerm">
  <xsd:sequence>
    <xsd:element name="coefficient" type="xsd:decimal" />
    <xsd:element name="partialDerivativeReference" type="PricingParameterDerivativeReference"
      maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: GenericDimension

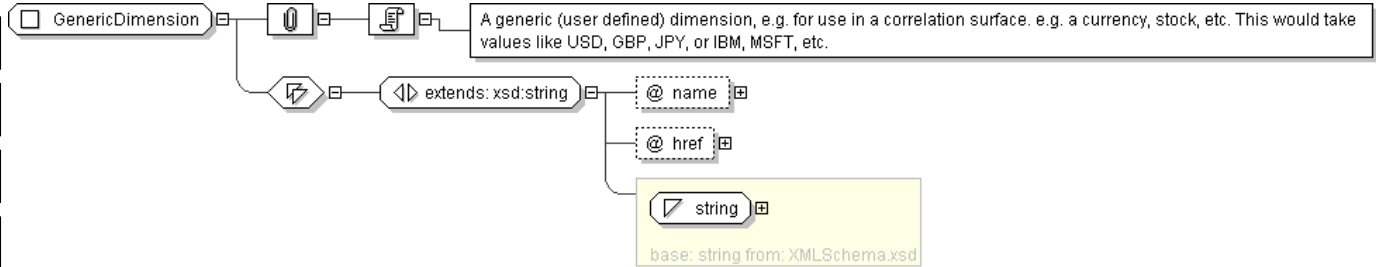
Super-types:	<a href="#">xsd:string</a> < <b>GenericDimension</b> (by extension)
Sub-types:	None

Name	GenericDimension
Used by (from the same schema document)	Model Group <a href="#">PricingStructureIndex.model</a>
Abstract	no
Documentation	A generic (user defined) dimension, e.g. for use in a correlation surface. e.g. a currency, stock, etc. This would take values like USD, GBP, JPY, or IBM, MSFT, etc.

XML Instance Representation

```
<...
name="xsd:normalizedString [1]
'The name of the dimension. E.g.: "Currency", "Stock", "Issuer", etc.'
"
href="xsd:IDREF [0..1]
'A reference to an instrument (e.g. currency) that this value represents.'
">
xsd:string
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GenericDimension">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="name" type="xsd:string" use="required"/>
      <xsd:attribute name="href" type="xsd:string" reference="Asset"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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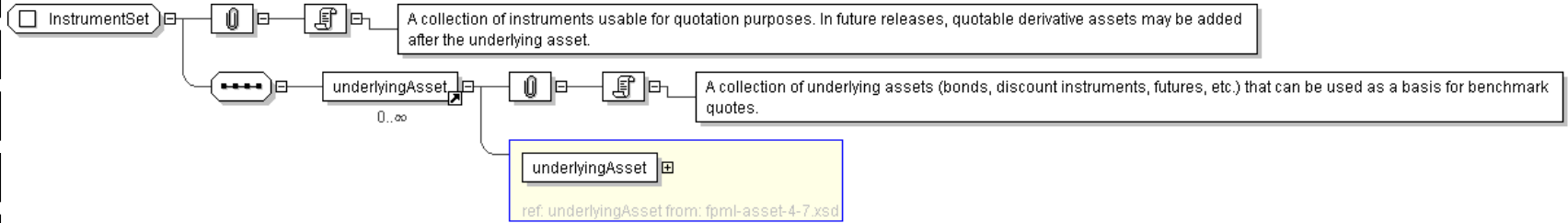
Complex Type: **InstrumentSet**

Super-types:	None
Sub-types:	None
Name	InstrumentSet
Used by (from the same schema document)	Complex Type <a href="#">QuotedAssetSet</a>
Abstract	no
Documentation	A collection of instruments usable for quotation purposes. In future releases, quotable derivative assets may be added after the underlying asset.

XML Instance Representation

```
<...>
  <underlyingAsset> ... </underlyingAsset> [0..*]
  'A collection of underlying assets (bonds, discount instruments, futures, etc.) that can
  be used as a basis for benchmark quotes.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InstrumentSet">
  <xsd:sequence>
    <xsd:element ref="underlyingAsset" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **Market**

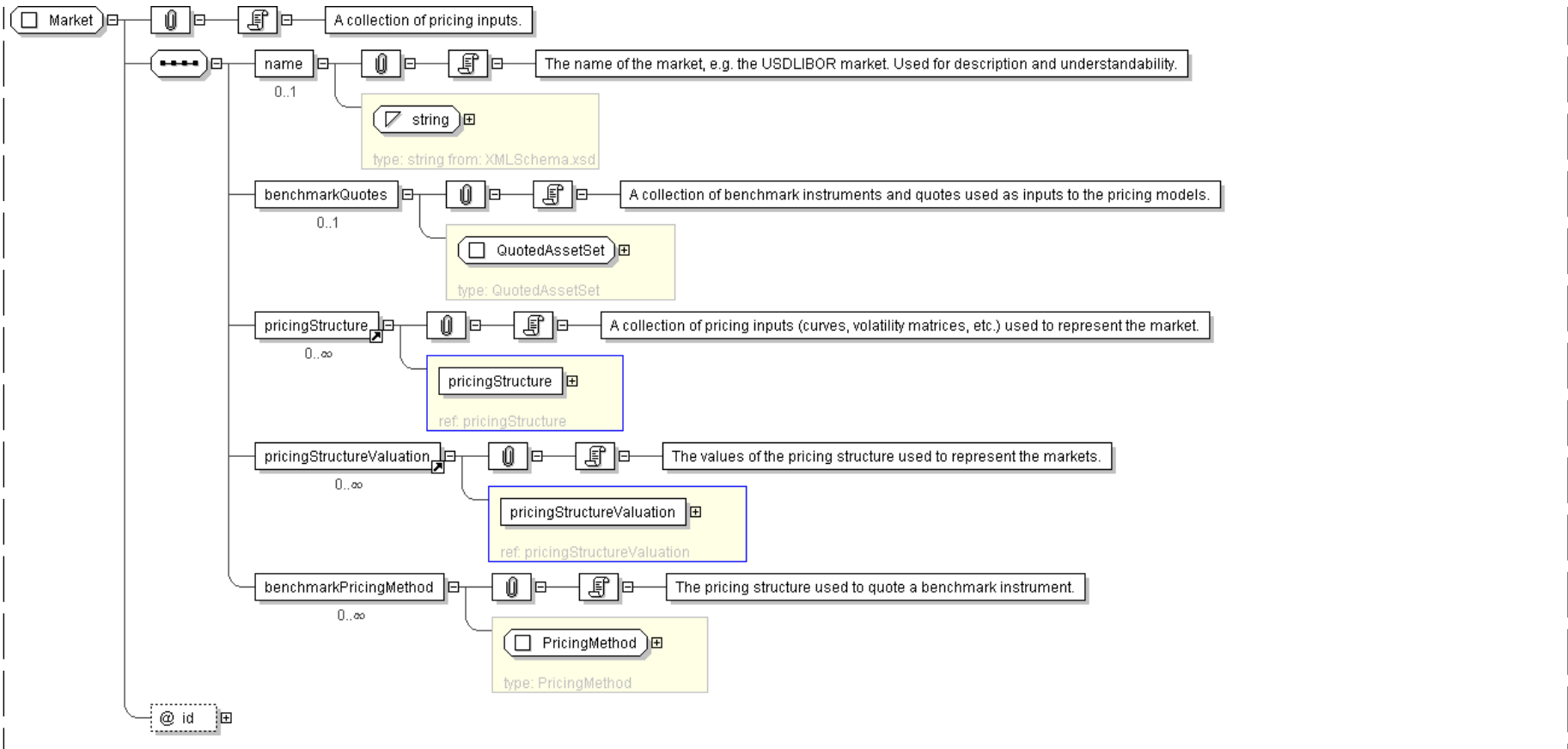
Super-types:	None
Sub-types:	None
Name	Market
Used by (from the same schema document)	Element <a href="#">market</a>
Abstract	no
Documentation	A collection of pricing inputs.

XML Instance Representation

```
<...  
  id="  xsd:ID [0..1]">  
    <name>  xsd:string </name> [0..1]  
    'The name of the market, e.g. the USDLIBOR market. Used for description and understandability.'  
  
    <benchmarkQuotes>  QuotedAssetSet </benchmarkQuotes> [0..1]  
    'A collection of benchmark instruments and quotes used as inputs to the pricing models.'  
  
    <pricingStructure> ... </pricingStructure> [0..*]  
    'A collection of pricing inputs (curves, volatility matrices, etc.) used to represent  
    the market.'  
  
    <pricingStructureValuation> ... </pricingStructureValuation> [0..*]  
    'The values of the pricing structure used to represent the markets.'  
  
    <benchmarkPricingMethod>  PricingMethod </benchmarkPricingMethod> [0..*]  
    'The pricing structure used to quote a benchmark instrument.'  
  
  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Market">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string" minOccurs="0"/>
    <xsd:element name="benchmarkQuotes" type="QuotedAssetSet" minOccurs="0"/>
    <xsd:element ref="pricingStructure" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="pricingStructureValuation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="benchmarkPricingMethod" type="PricingMethod"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

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Complex Type: **MarketReference**

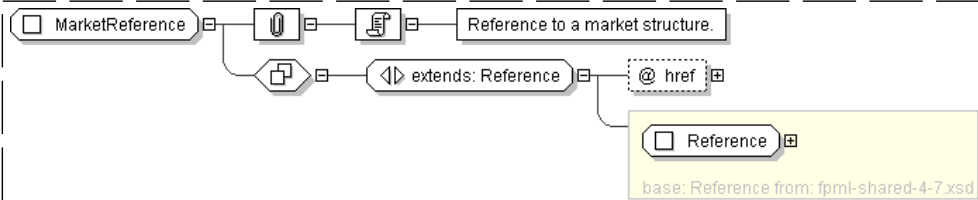
Super-types:	<a href="#">Reference</a> < <b>MarketReference</b> (by extension)
Sub-types:	None

Name	MarketReference
Used by (from the same schema document)	Complex Type <a href="#">ValuationScenario</a>
Abstract	no
Documentation	Reference to a market structure.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]" />  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MarketReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " >  
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="Market" />  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **PerturbationType**

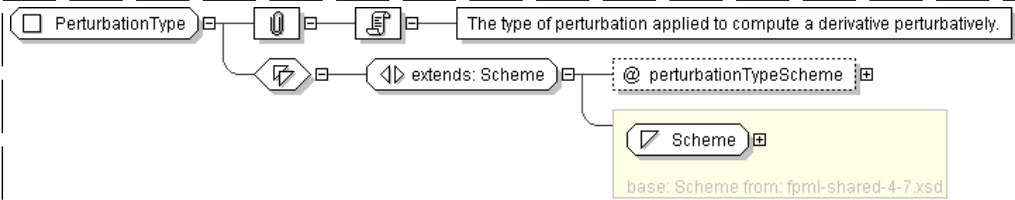
Super-types:	<a href="#">Scheme</a> < <b>PerturbationType</b> (by extension)
Sub-types:	None

Name	PerturbationType
Used by (from the same schema document)	Model Group <a href="#">FiniteDifferenceDerivativeParameters.model</a>
Abstract	no
Documentation	The type of perturbation applied to compute a derivative perturbatively.

XML Instance Representation

```
<...  
  perturbationTypeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PerturbationType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme " >  
      <xsd:attribute name="perturbationTypeScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/perturbation-type" />  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

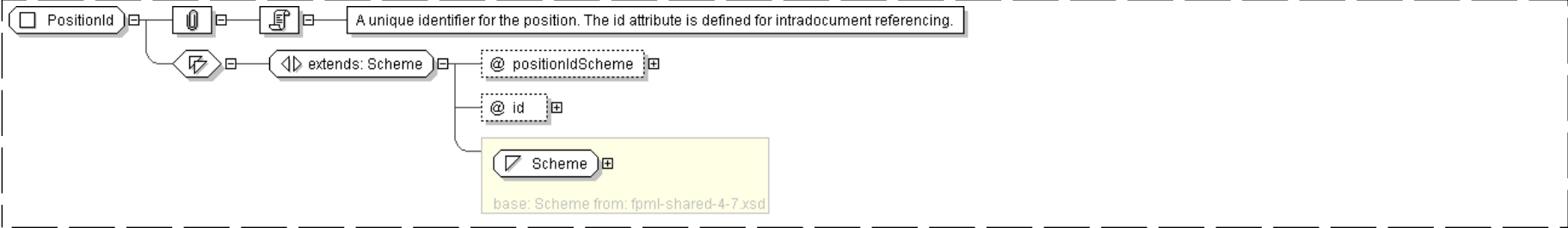
Complex Type: **PositionId**

Super-types:	<a href="#">Scheme</a> < <b>PositionId</b> (by extension)
Sub-types:	None
Name	PositionId
Used by (from the same schema document)	Model Group <a href="#">PositionIdAndVersion.model</a>
Abstract	no
Documentation	A unique identifier for the position. The id attribute is defined for intradocument referencing.

XML Instance Representation

```
<...  
  positionIdScheme=" xsd:anyURI [0..1]"  
  id=" xsd:ID [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositionId">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="positionIdScheme" type=" xsd:anyURI "/>  
      <xsd:attribute name="id" type=" xsd:ID "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **PricingDataPointCoordinate**

Super-types:	None
Sub-types:	None
Name	PricingDataPointCoordinate
Used by (from the same schema document)	Model Group <a href="#">PricingCoordinateOrReference.model</a>
Abstract	no
Documentation	A set of index values that identify a pricing data point. For example: (strike = 17%, expiration = 6M, term = 1Y).

XML Instance Representation

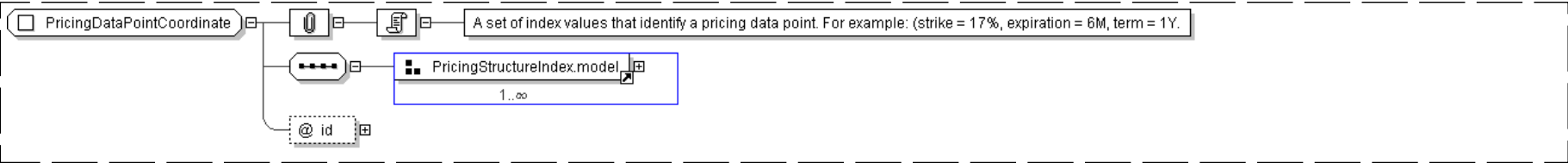
```
<...
id=" xsd:ID [0..1]">
Start Group: PricingStructureIndex.model [1..*]
Start Choice [1]
  <term> TimeDimension </term> [1]
  'A time dimension that represents the term of a financial instrument, e.g. of a zero-
  coupon bond on a curve, or of an underlying caplet or swap for an option.'

  <expiration> TimeDimension </expiration> [1]
  'A time dimension that represents the time to expiration of an option.'

  <strike> xsd:decimal </strike> [1]
  'A numerical dimension that represents the strike rate or price of an option.'

  <generic> GenericDimension </generic> [1]
End Choice
End Group: PricingStructureIndex.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingDataPointCoordinate">
  <xsd:sequence>
    <xsd:group ref=" PricingStructureIndex.model " maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: PricingDataPointCoordinateReference

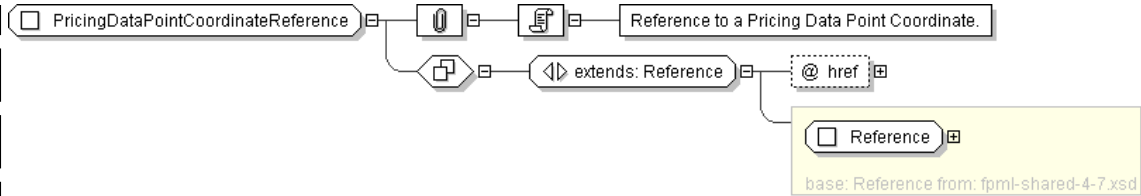
Super-types:	<a href="#">Reference</a> < <a href="#">PricingDataPointCoordinateReference</a> (by extension)
Sub-types:	None
Name	PricingDataPointCoordinateReference
Used by (from the same schema document)	Model Group <a href="#">PricingCoordinateOrReference.model</a>
Abstract	no
Documentation	Reference to a Pricing Data Point Coordinate.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram





Schema Component Representation

```
<xsd:complexType name="PricingDataPointCoordinateReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF"
        use="required" reference="PricingDataPointCoordinate" />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: PricingInputReplacement

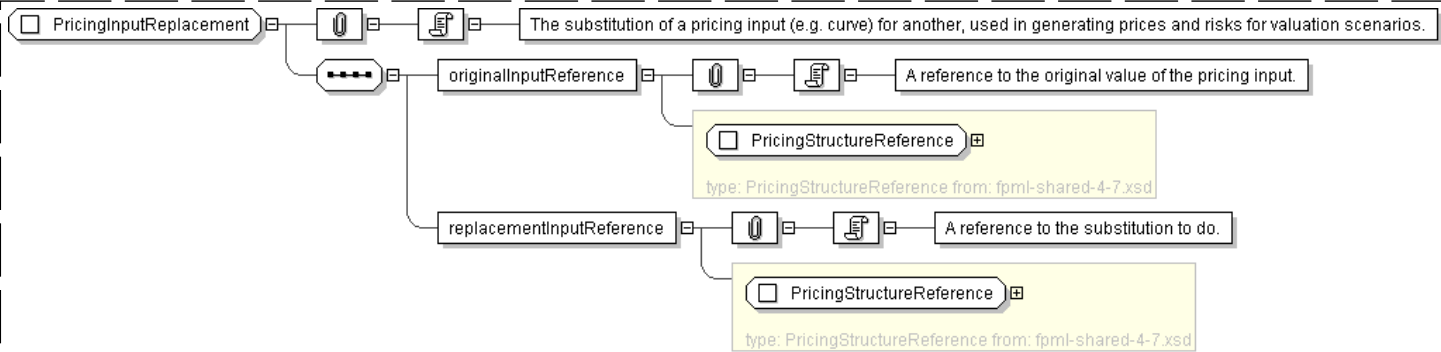
Super-types:	None
Sub-types:	None
Name	PricingInputReplacement
Used by (from the same schema document)	Complex Type <a href="#">ValuationScenario</a>
Abstract	no
Documentation	The substitution of a pricing input (e.g. curve) for another, used in generating prices and risks for valuation scenarios.

XML Instance Representation

```
<...>
  <originalInputReference> PricingStructureReference </originalInputReference> [1]
  'A reference to the original value of the pricing input.'

  <replacementInputReference> PricingStructureReference </replacementInputReference> [1]
  'A reference to the substitution to do.'
</...>
```

Diagram



Schema Component Representation

Complex Type: PricingInputType

Super-types:	<a href="#">Scheme</a> < PricingInputType (by extension)
Sub-types:	None
Name	PricingInputType
Used by (from the same schema document)	Complex Type <a href="#">SensitivitySetDefinition</a>
Abstract	no
Documentation	The type of pricing structure represented.

XML Instance Representation

```
<...  
pricingInputTypeScheme=" xsd:anyURI [0..1]">  
Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingInputType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme " >  
      <xsd:attribute name="pricingInputTypeScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/pricing-input-type"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: PricingMethod

Super-types:	None
Sub-types:	None
Name	PricingMethod
Used by (from the same schema document)	Complex Type <a href="#">Market</a>
Abstract	no
Documentation	For an asset (e.g. a reference/benchmark asset), the pricing structure used to price it. Used, for example, to specify that the rateIndex "USD-LIBOR-Telerate" with term = 6M is priced using the "USD-LIBOR-Close" curve.

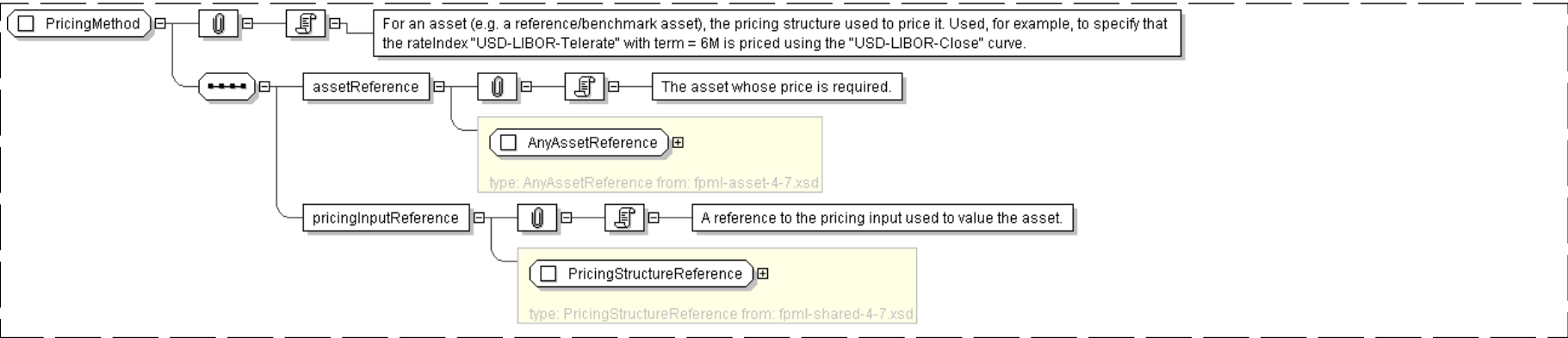
XML Instance Representation

```
<...>
  <assetReference> AnyAssetReference </assetReference> [1]
  'The asset whose price is required.'

  <pricingInputReference> PricingStructureReference </pricingInputReference> [1]
  'A reference to the pricing input used to value the asset.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingMethod">
  <xsd:sequence>
    <xsd:element name="assetReference" type=" AnyAssetReference " />
    <xsd:element name="pricingInputReference" type=" PricingStructureReference " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: PricingParameterDerivative

Super-types:	None
Sub-types:	None
Name	PricingParameterDerivative
Used by (from the same schema document)	Model Group <a href="#">ComputedDerivative.model</a>
Abstract	no
Documentation	A definition of the mathematical derivative with respect to a specific pricing parameter.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <description> xsd:string </description> [0..1]
  'A description, if needed, of how the derivative is computed.'

  Start Choice [1]
    <parameterReference> AssetOrTermPointOrPricingStructureReference </parameterReference> [0..1]
    'A reference to the pricing input parameter to which the sensitivity is computed. If it
    is omitted, the derivative definition is generic, and applies to any input point in
    the valuation set.'
```

```
<inputDateReference> ValuationReference </inputDateReference> [1..*]
```

'Reference(s) to the pricing input dates that are shifted when the sensitivity is computed. Depending on the time advance method used, this list could vary. Used for describing time-advance derivatives (theta, carry, etc.)'

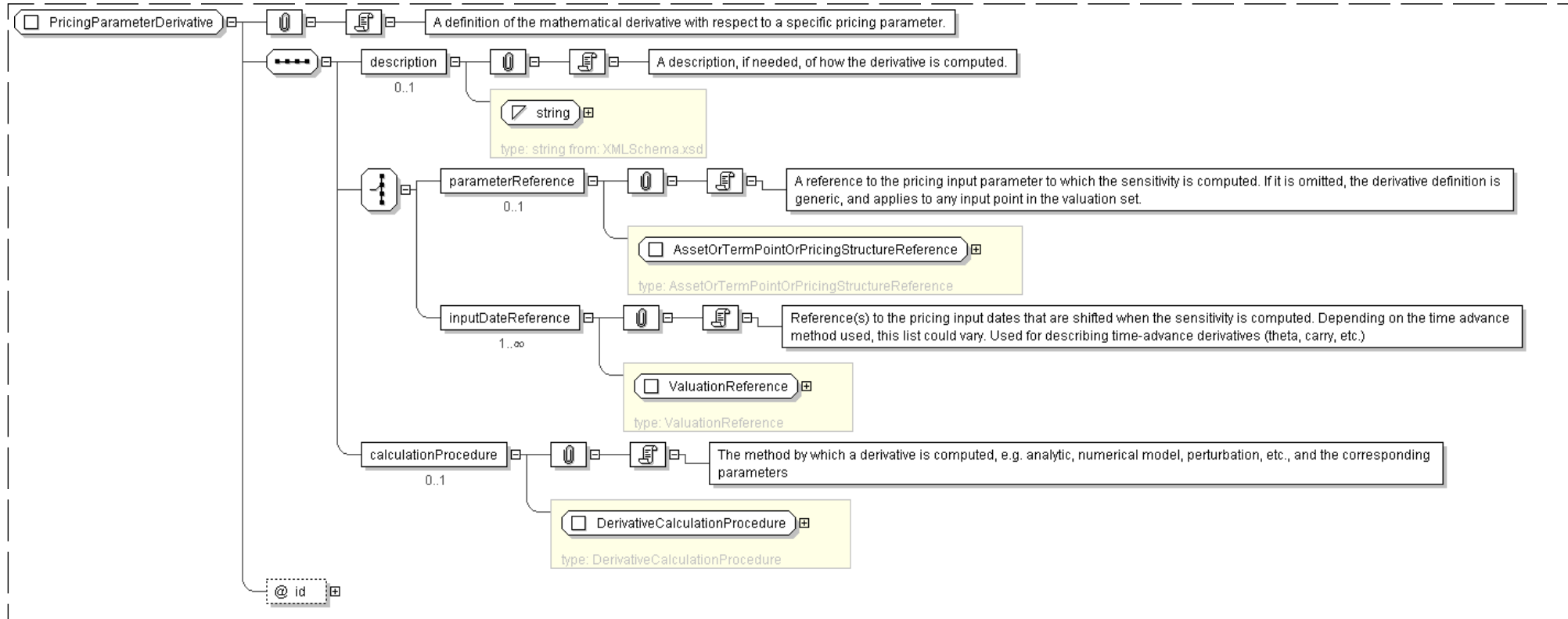
End Choice

```
<calculationProcedure> DerivativeCalculationProcedure </calculationProcedure> [0..1]
```

'The method by which a derivative is computed, e.g. analytic, numerical model, perturbation, etc., and the corresponding parameters'

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="PricingParameterDerivative">
  <xsd:sequence>
    <xsd:element name="description" type="xsd:string" minOccurs="0"/>
    <xsd:choice>
      <xsd:element name="parameterReference" type="AssetOrTermPointOrPricingStructureReference"
        minOccurs="0"/>
      <xsd:element name="inputDateReference" type="ValuationReference" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:element name="calculationProcedure" type="DerivativeCalculationProcedure" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xs:ID"/>
</xsd:complexType>
```

Complex Type: PricingParameterDerivativeReference

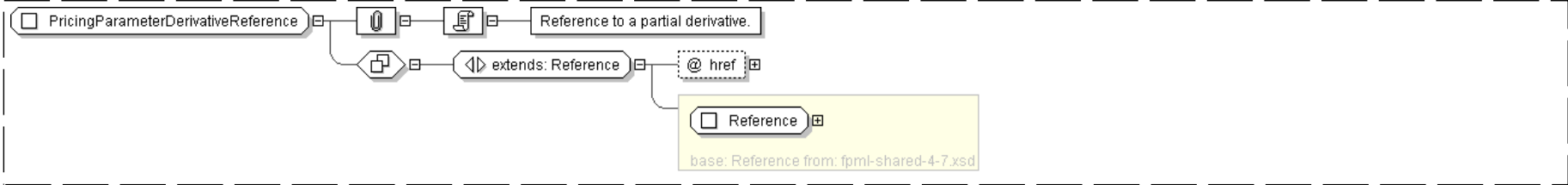
Super-types:	<a href="#">Reference</a> < <b>PricingParameterDerivativeReference</b> (by extension)
Sub-types:	None

Name	PricingParameterDerivativeReference
Used by (from the same schema document)	Complex Type <a href="#">FormulaTerm</a>
Abstract	no
Documentation	Reference to a partial derivative.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]" />  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingParameterDerivativeReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " >  
      <xsd:attribute name="href" type=" xsd:IDREF "  
        use="required" reference="PricingParameterDerivative" />  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

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Complex Type: PricingParameterShift

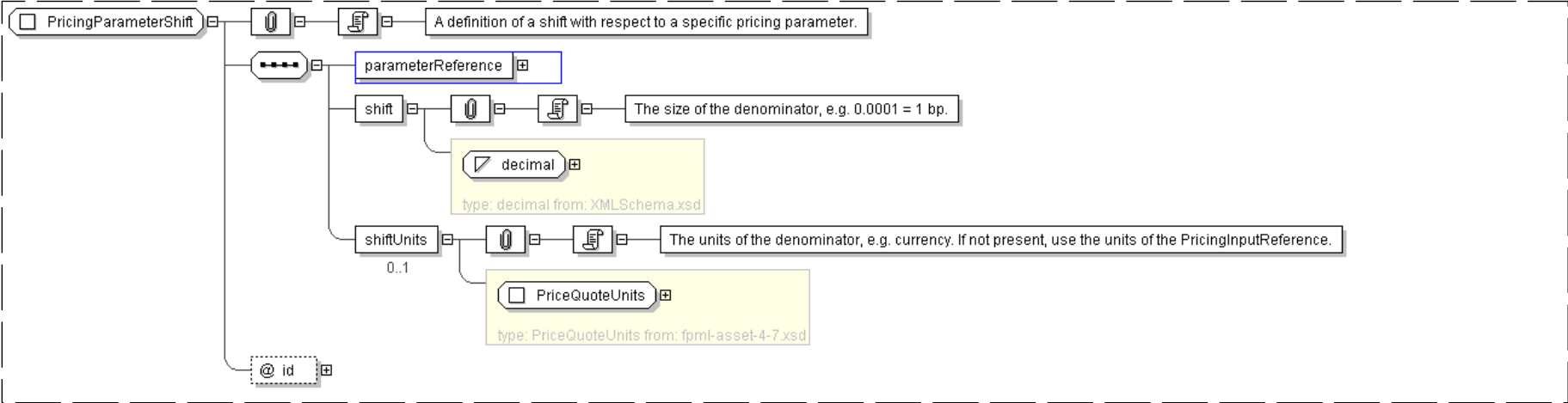
Super-types:	None
Sub-types:	None

Name	PricingParameterShift
Used by (from the same schema document)	Complex Type <a href="#">ValuationScenario</a>
Abstract	no
Documentation	A definition of a shift with respect to a specific pricing parameter.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <parameterReference> AssetOrTermPointOrPricingStructureReference </parameterReference> [1]  
    <shift> xsd:decimal </shift> [1]  
    'The size of the denominator, e.g. 0.0001 = 1 bp.'  
    <shiftUnits> PriceQuoteUnits </shiftUnits> [0..1]  
    'The units of the denominator, e.g. currency. If not present, use the units of  
    the PricingInputReference.'  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingParameterShift">
  <xsd:sequence>
    <xsd:element name="parameterReference" type="AssetOrTermPointOrPricingStructureReference" />
    <xsd:element name="shift" type="xsd:decimal" />
    <xsd:element name="shiftUnits" type="PriceQuoteUnits" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

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Complex Type: PricingStructureValuation

Super-types:	<a href="#">Valuation</a> < PricingStructureValuation (by extension)
Sub-types:	None
Name	PricingStructureValuation
Used by (from the same schema document)	Element <a href="#">pricingStructureValuation</a>
Abstract	no
Documentation	An abstract pricing structure valuation base type. Used as a base for values of pricing structures such as yield curves and volatility matrices. Derived from the "Valuation" type.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]"
definitionRef=" xsd:IDREF [0..1]

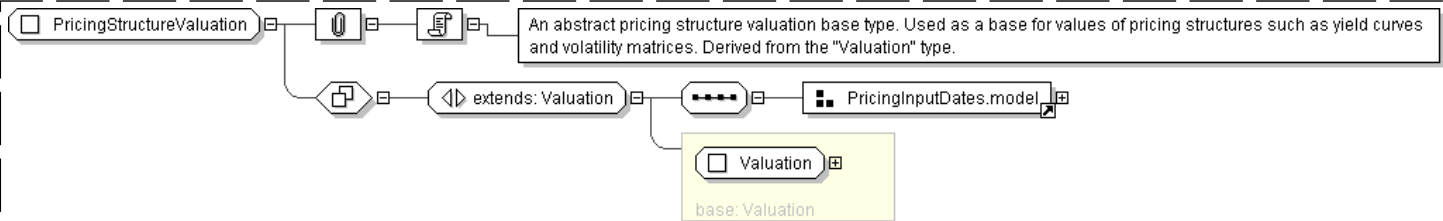
'An optional reference to the scenario that this valuation applies to.'

">
  <objectReference> AnyAssetReference </objectReference> [0..1]
  'A reference to the asset or pricing structure that this values.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
  'A reference to the valuation scenario used to calculate this valuation. If the
  Valuation occurs within a ValuationSet, this value is optional and is defaulted from
  the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
  one here) overrides that in the higher (i.e. ValuationSet).'
```

```
<baseDate> IdentifiedDate </baseDate> [1]
'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'IdentifiedDate </spotDate> [0..1]
'The spot settlement date for which the structure applies, normally 0-2 days after the base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".'IdentifiedDate </inputDataDate> [0..1]
'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'IdentifiedDate </endDate> [0..1]
'The last date for which data is supplied in this pricing input.'xsd:dateTime </buildDateTime> [0..1]
'The date and time when the pricing input was generated.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingStructureValuation">
  <xsd:complexContent>
    <xsd:extension base=" Valuation ">
      <xsd:sequence>
        <xsd:group ref=" PricingInputDates.model " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **QuotedAssetSet**

Super-types:	None
Sub-types:	None
Name	QuotedAssetSet
Used by (from the same schema document)	Complex Type <a href="#">Market</a>
Abstract	no
Documentation	A collection of quoted assets.

XML Instance Representation

```
<...>
<instrumentSet> InstrumentSet </instrumentSet> [0..1]
```

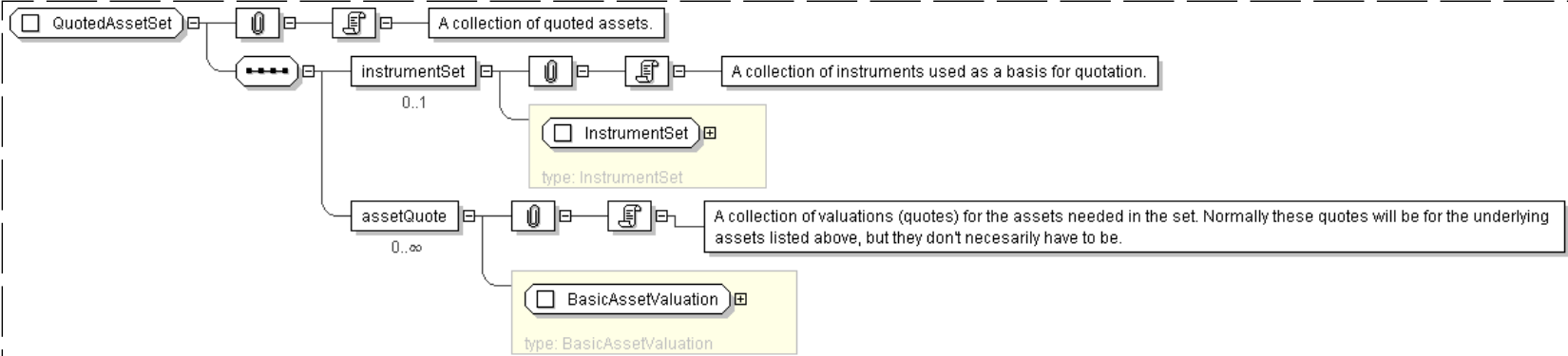
'A collection of instruments used as a basis for quotation.'

<assetQuote> [BasicAssetValuation](#) </assetQuote> [0..\*]

'A collection of valuations (quotes) for the assets needed in the set. Normally these quotes will be for the underlying assets listed above, but they don\'t necessarily have to be.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotedAssetSet">
  <xsd:sequence>
    <xsd:element name="instrumentSet" type="InstrumentSet" minOccurs="0"/>
    <xsd:element name="assetQuote" type="BasicAssetValuation" minOccurs="0"
      maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **SensitivityDefinition**

Super-types:	None
Sub-types:	None
Name	SensitivityDefinition
Used by (from the same schema document)	Complex Type <a href="#">SensitivitySetDefinition</a>
Abstract	no
Documentation	A set of characteristics describing a sensitivity.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <name> xsd:string </name> [0..1]

  'The name of the derivative, e.g. first derivative, Hessian, etc. Typically not required,
  but may be used to explain more complex derivative calculations.'

  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]

  'Reference to the valuation scenario to which this sensitivity definition applies. If
  the SensitivityDefinition occurs within a SensitivitySetDefinition, this is not required
  and normally not used. In this case, if it is supplied it overrides
  the valuationScenarioReference in the SensitivitySetDefinition.'
```



Start Choice [1]

<partialDerivative> PricingParameterDerivative </partialDerivative> [1..\*]

'A partial derivative of the measure with respect to an input.'

<formula> DerivativeFormula </formula> [0..1]

'A formula defining how to compute the derivative from the partial derivatives. If absent, the derivative is just the product of the partial derivatives. Normally only required for more higher-order derivatives, e.g. Hessians.'

Start Choice [1]

<term> TimeDimension </term> [1]

'The time dimension of the sensitivity point (tenor and/or date).'

Start Group: PricingCoordinateOrReference.model [1..\*]

'The input coordinates, or references to them (e.g. expiration, strike, tenor).'

Start Choice [1]

<coordinate> PricingDataPointCoordinate </coordinate> [1]

'An explicit, filled in data point coordinate. This might specify expiration, strike, etc.'

<coordinateReference> PricingDataPointCoordinateReference </coordinateReference> [1]

'A reference to a pricing data point coordinate within this document.'

End Choice

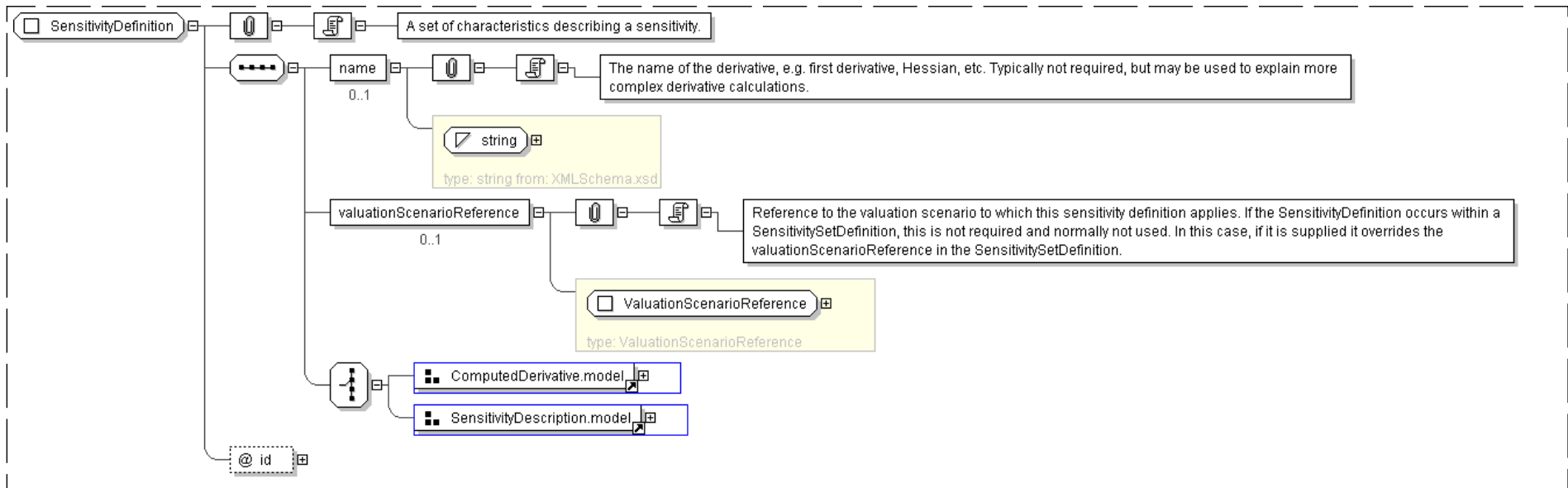
End Group: PricingCoordinateOrReference.model

End Choice

End Choice

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="SensitivityDefinition">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string" minOccurs="0"/>
    <xsd:element name="valuationScenarioReference" type="ValuationScenarioReference"
      minOccurs="0"/>
    <xsd:choice>

```

```
<xsd:group ref=" ComputedDerivative.model "/>
<xsd:group ref=" SensitivityDescription.model "/>
</xsd:choice>
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

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Complex Type: **SensitivitySetDefinition**

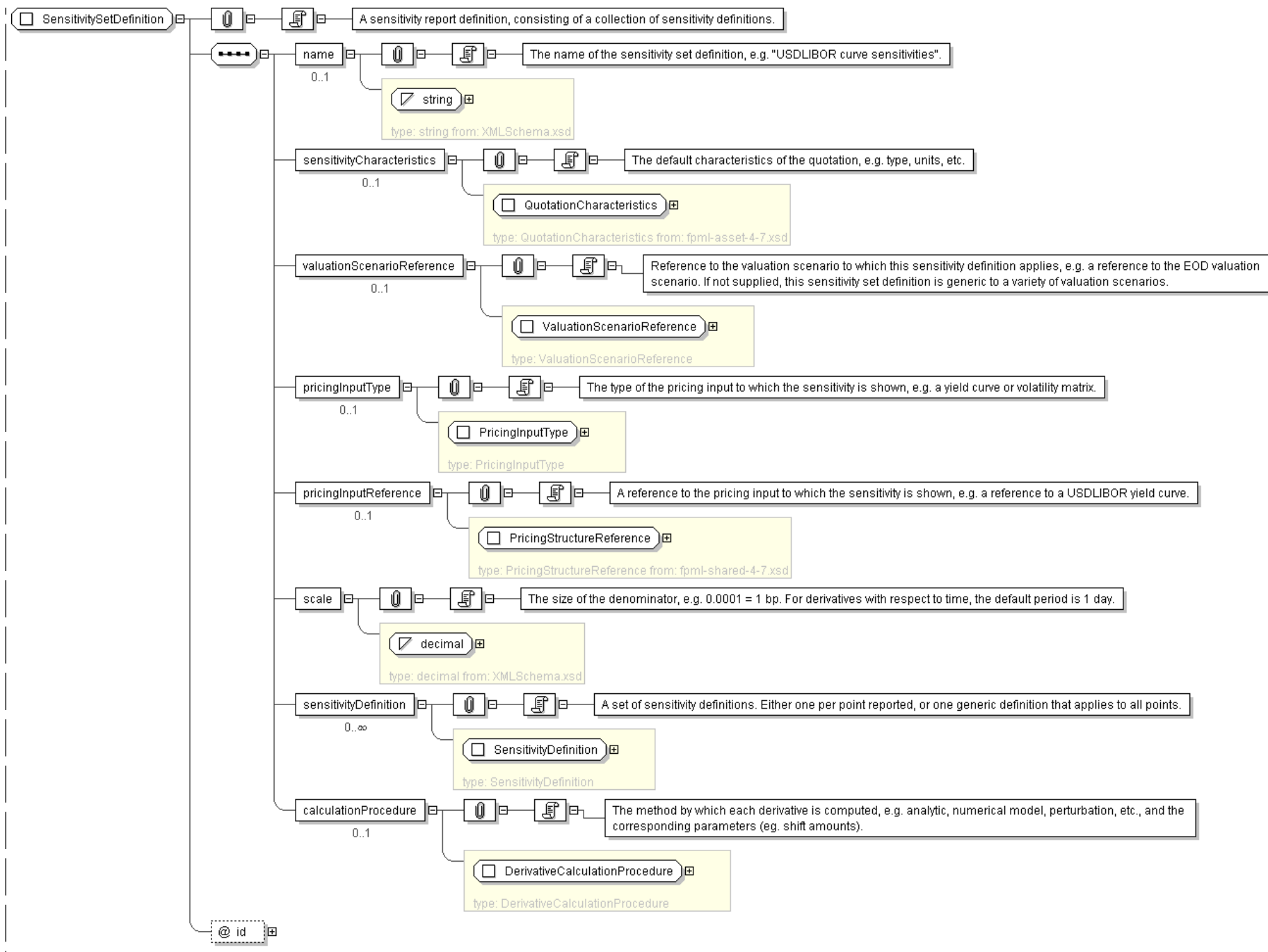
Super-types:	None
Sub-types:	None

Name	SensitivitySetDefinition
Abstract	no
Documentation	A sensitivity report definition, consisting of a collection of sensitivity definitions.

XML Instance Representation

<...  
id=" xsd:ID [0..1]">  
 <name> xsd:string </name> [0..1]  
 'The name of the sensitivity set definition, e.g. \"USDLIBOR curve sensitivities\".'  
  
 <sensitivityCharacteristics> QuotationCharacteristics </sensitivityCharacteristics> [0..1]  
 'The default characteristics of the quotation, e.g. type, units, etc.'  
  
 <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]  
 'Reference to the valuation scenario to which this sensitivity definition applies, e.g.  
 a reference to the EOD valuation scenario. If not supplied, this sensitivity set definition  
 is generic to a variety of valuation scenarios.'  
  
 <pricingInputType> PricingInputType </pricingInputType> [0..1]  
 'The type of the pricing input to which the sensitivity is shown, e.g. a yield curve  
 or volatility matrix.'  
  
 <pricingInputReference> PricingStructureReference </pricingInputReference> [0..1]  
 'A reference to the pricing input to which the sensitivity is shown, e.g. a reference to  
 a USDLIBOR yield curve.'  
  
 <scale> xsd:decimal </scale> [1]  
 'The size of the denominator, e.g. 0.0001 = 1 bp. For derivatives with respect to time,  
 the default period is 1 day.'  
  
 <sensitivityDefinition> SensitivityDefinition </sensitivityDefinition> [0..\*]  
 'A set of sensitivity definitions. Either one per point reported, or one generic  
 definition that applies to all points.'  
  
 <calculationProcedure> DerivativeCalculationProcedure </calculationProcedure> [0..1]  
 'The method by which each derivative is computed, e.g. analytic, numerical model,  
 perturbation, etc., and the corresponding parameters (eg. shift amounts).'  
  
</...>

Diagram



## Schema Component Representation

```

<xsd:complexType name="SensitivitySetDefinition">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string" minOccurs="0"/>
    <xsd:element name="sensitivityCharacteristics" type="QuotationCharacteristics" minOccurs="0"/>
    <xsd:element name="valuationScenarioReference" type="ValuationScenarioReference" minOccurs="0"/>
    <xsd:element name="pricingInputType" type="PricingInputType" minOccurs="0"/>
    <xsd:element name="pricingInputReference" type="PricingStructureReference" minOccurs="0"/>
    <xsd:element name="scale" type="decimal" minOccurs="0"/>
    <xsd:element name="sensitivityDefinition" type="SensitivityDefinition" minOccurs="0"/>
    <xsd:element name="calculationProcedure" type="DerivativeCalculationProcedure" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="string" use="optional"/>
</xsd:complexType>

```

```
" minOccurs="0"/>
<xsd:element name="pricingInputType" type=" PricingInputType " minOccurs="0"/>
<xsd:element name="pricingInputReference" type=" PricingStructureReference " minOccurs="0"/>
<xsd:element name="scale" type=" xsd:decimal "/>
<xsd:element name="sensitivityDefinition" type=" SensitivityDefinition "
minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="calculationProcedure" type=" DerivativeCalculationProcedure " minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID "/>
</xsd:complexType>
```

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Complex Type: SensitivitySetDefinitionReference

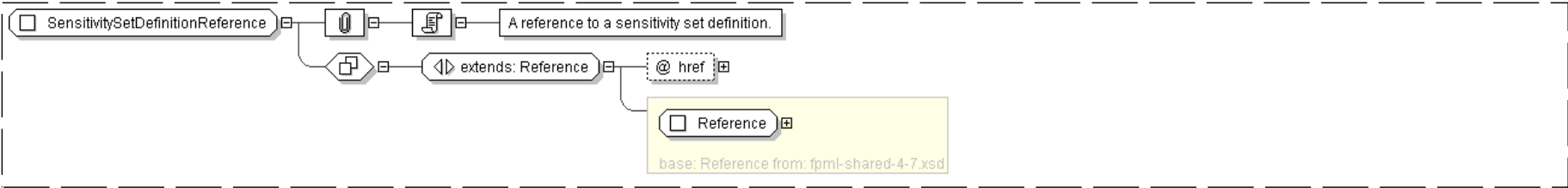
Super-types:	<a href="#">Reference</a> < <b>SensitivitySetDefinitionReference</b> (by extension)
Sub-types:	None

Name	SensitivitySetDefinitionReference
Abstract	no
Documentation	A reference to a sensitivity set definition.

XML Instance Representation

```
<...
 href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SensitivitySetDefinitionReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF "
        use="required" reference="SensitivitySetDefinition"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: TimeDimension

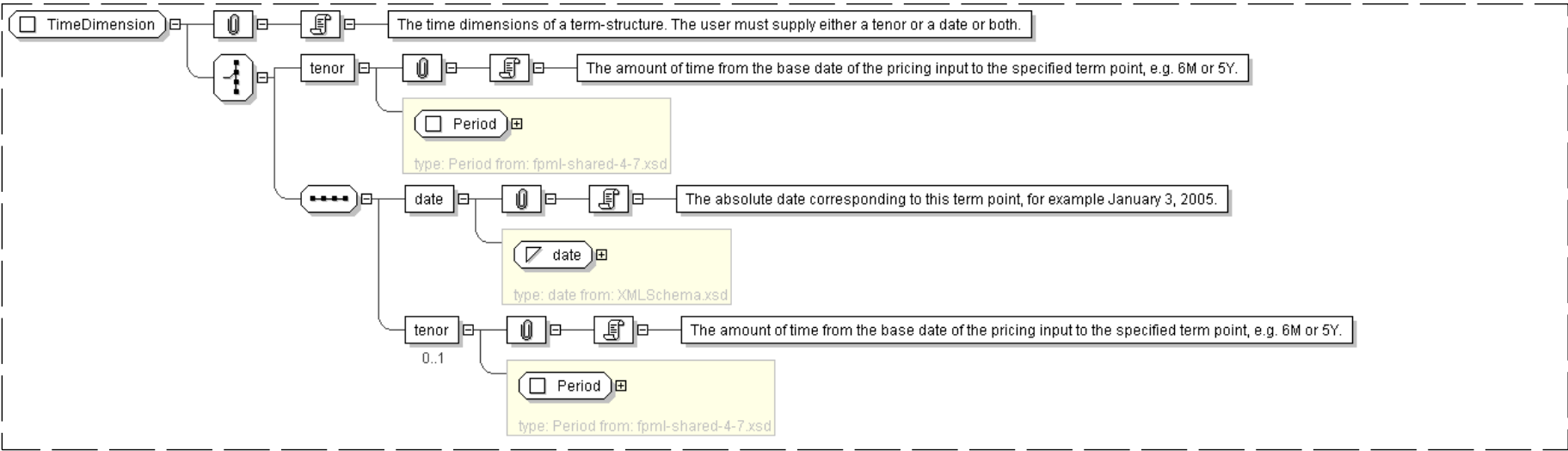
Super-types:	None
Sub-types:	None

Name	TimeDimension
Used by (from the same schema document)	Model Group <a href="#">PricingStructureIndex.model</a> , Model Group <a href="#">PricingStructureIndex.model</a> , Model Group <a href="#">SensitivityDescription.model</a>
Abstract	no
Documentation	The time dimensions of a term-structure. The user must supply either a tenor or a date or both.

XML Instance Representation

```
<...>
Start Choice [1]
<tenor> Period </tenor> [1]
  'The amount of time from the base date of the pricing input to the specified term point, e.
  g. 6M or 5Y.'xsd:date </date> [1]
  'The absolute date corresponding to this term point, for example January 3, 2005.'Period </tenor> [0..1]
  'The amount of time from the base date of the pricing input to the specified term point, e.
  g. 6M or 5Y.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TimeDimension">
  <xsd:choice>
    <xsd:element name="tenor" type=" Period " />
    <xsd:sequence>
      <xsd:element name="date" type=" xsd:date " />
      <xsd:element name="tenor" type=" Period " minOccurs="0"/>
    </xsd:sequence>
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: **Valuation**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">BasicAssetValuation</a> (by extension)</li><li>• <a href="#">PricingStructureValuation</a> (by extension)</li></ul>

Name	Valuation
Abstract	no
Documentation	A valuation of an valuable object - an asset or a pricing input. This is an abstract type, used as a base for values of pricing structures such as yield curves as well as asset values.

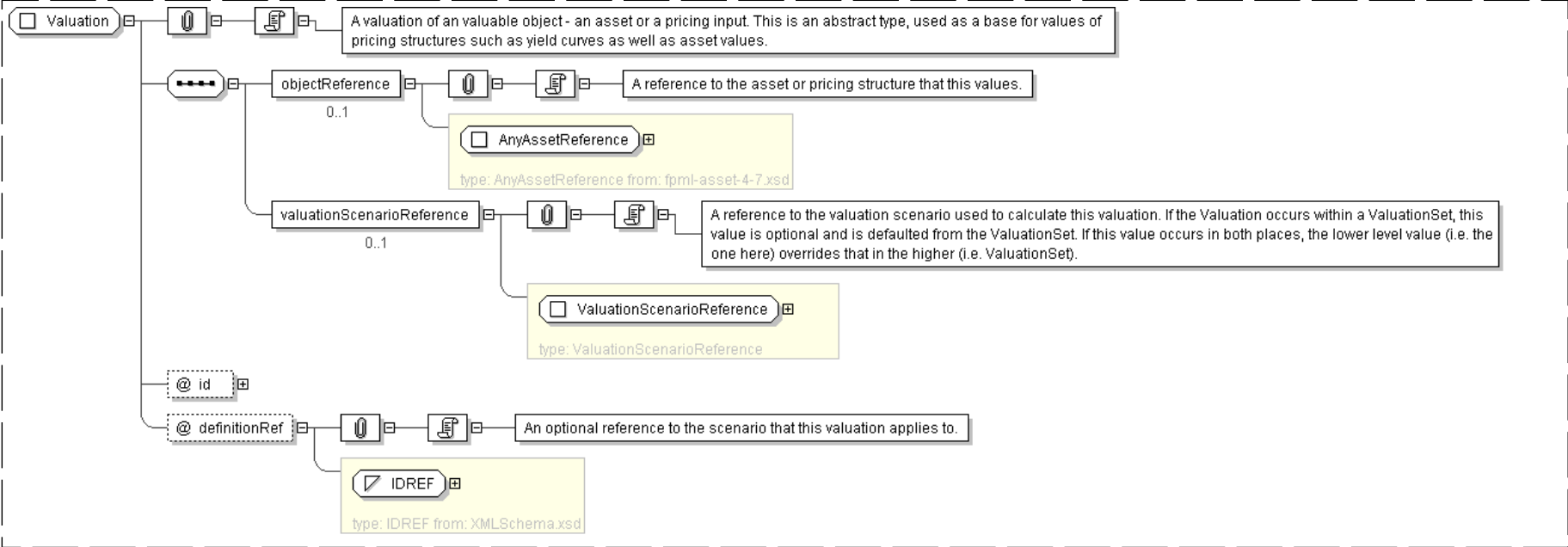
XML Instance Representation

```
<...
id=" xsd:ID [0..1]"
definitionRef=" xsd:IDREF [0..1]"
'An optional reference to the scenario that this valuation applies to.'

">
<objectReference> AnyAssetReference </objectReference> [0..1]
'A reference to the asset or pricing structure that this values.'

<valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]
'A reference to the valuation scenario used to calculate this valuation. If the
Valuation occurs within a ValuationSet, this value is optional and is defaulted from
the ValuationSet. If this value occurs in both places, the lower level value (i.e. the
one here) overrides that in the higher (i.e. ValuationSet).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Valuation">
  <xsd:sequence>
    <xsd:element name="objectReference" type=" AnyAssetReference " minOccurs="0"/>
    <xsd:element name="valuationScenarioReference" type=" ValuationScenarioReference " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID "/>
  <xsd:attribute name="definitionRef" type=" xsd:IDREF " reference="ValuationScenario"/>
</xsd:complexType>
```

Complex Type: ValuationReference

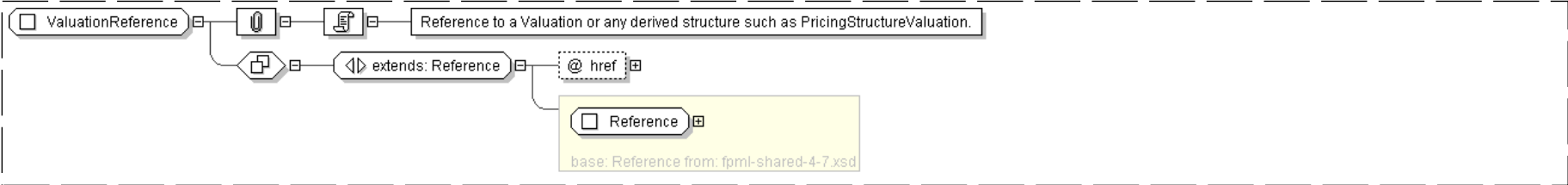
Super-types:	<a href="#">Reference</a> < <b>ValuationReference</b> (by extension)
Sub-types:	None

Name	ValuationReference
Used by (from the same schema document)	Complex Type <a href="#">PricingParameterDerivative</a>
Abstract	no
Documentation	Reference to a Valuation or any derived structure such as PricingStructureValuation.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ValuationReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference" >  
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Valuation" />  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: ValuationScenario

Super-types:	None
Sub-types:	None

Name	ValuationScenario
Abstract	no
Documentation	A set of rules for generating a valuation.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <name> xsd:string </name> [0..1]  
  'The (optional) name for this valuation scenario, used for understandability. For example  
  \"EOD Valuations\".'  
  
  <valuationDate> IdentifiedDate </valuationDate> [1]  
  'The date for which the assets are valued.'  
  
  <marketReference> MarketReference </marketReference> [0..1]
```

'A reference to the market environment used to price the asset.'

<shift> PricingParameterShift </shift> [0..\*]

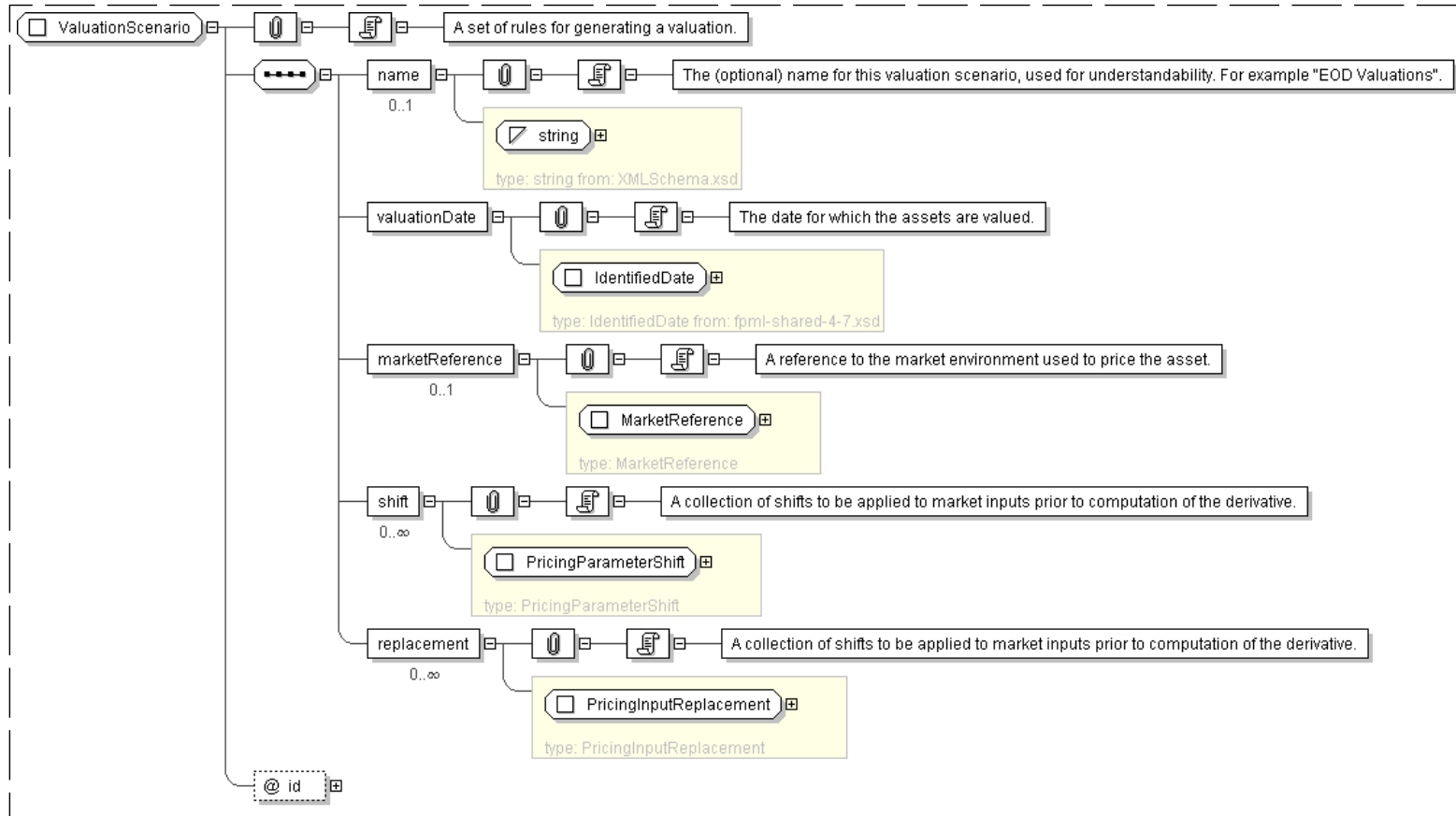
'A collection of shifts to be applied to market inputs prior to computation of the derivative.'

<replacement> PricingInputReplacement </replacement> [0..\*]

'A collection of shifts to be applied to market inputs prior to computation of the derivative.'

</...>

## Diagram



## Schema Component Representation

```

<xsd:complexType name="ValuationScenario">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string" minOccurs="0"/>
    <xsd:element name="valuationDate" type="IdentifiedDate" />
    <xsd:element name="marketReference" type="MarketReference" minOccurs="0"/>
    <xsd:element name="shift" type="PricingParameterShift" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="replacement" type="PricingInputReplacement"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>

```



Complex Type: **ValuationScenarioReference**

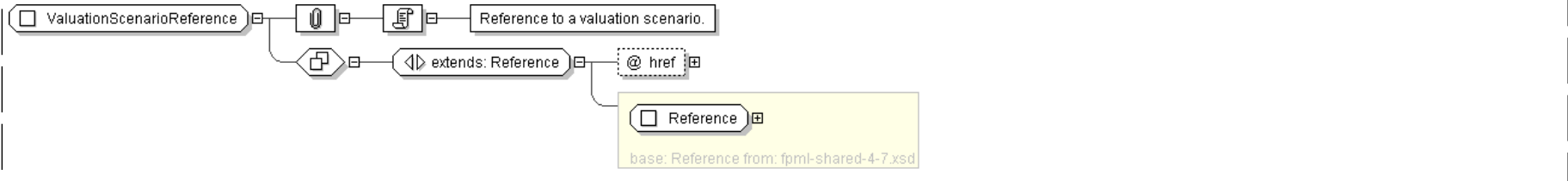
Super-types:	<a href="#">Reference</a> < <b>ValuationScenarioReference</b> (by extension)
Sub-types:	None

Name	ValuationScenarioReference
Used by (from the same schema document)	Complex Type <a href="#">SensitivityDefinition</a> , Complex Type <a href="#">SensitivitySetDefinition</a> , Complex Type <a href="#">Valuation</a>
Abstract	no
Documentation	Reference to a valuation scenario.

XML Instance Representation

```
<...  
  href=" xsd:IDREF \[1\]" />  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ValuationScenarioReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " >  
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="ValuationScenario"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **WeightedPartialDerivative**

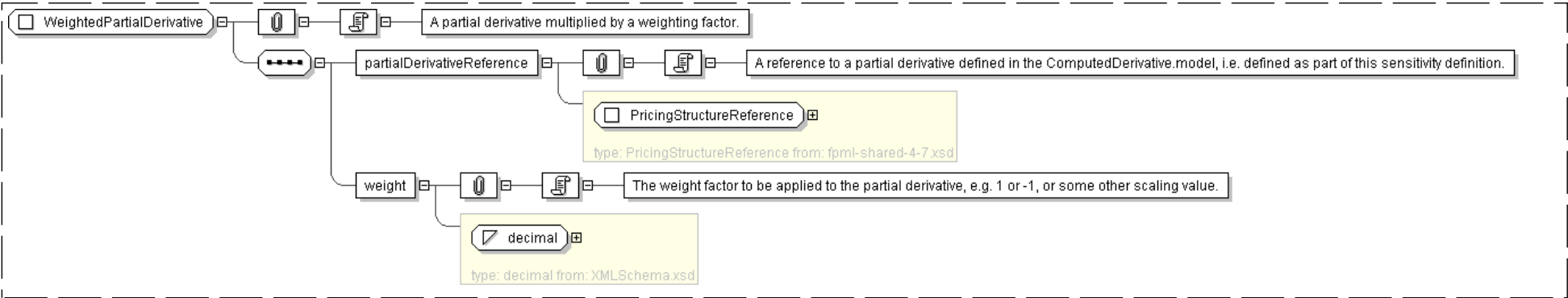
Super-types:	None
Sub-types:	None

Name	WeightedPartialDerivative
Used by (from the same schema document)	Complex Type <a href="#">DenominatorTerm</a>
Abstract	no
Documentation	A partial derivative multiplied by a weighting factor.

XML Instance Representation

```
<...>  
  <partialDerivativeReference> PricingStructureReference </partialDerivativeReference> [1]  
  'A reference to a partial derivative defined in the ComputedDerivative.model, i.e. defined  
  as part of this sensitivity definition.'  
  
  <weight> xsd:decimal </weight> [1]  
  'The weight factor to be applied to the partial derivative, e.g. 1 or -1, or some other  
  scaling value.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="WeightedPartialDerivative">
  <xsd:sequence>
    <xsd:element name="partialDerivativeReference" type="PricingStructureReference" />
    <xsd:element name="weight" type="xsd:decimal" />
  </xsd:sequence>
</xsd:complexType>
```

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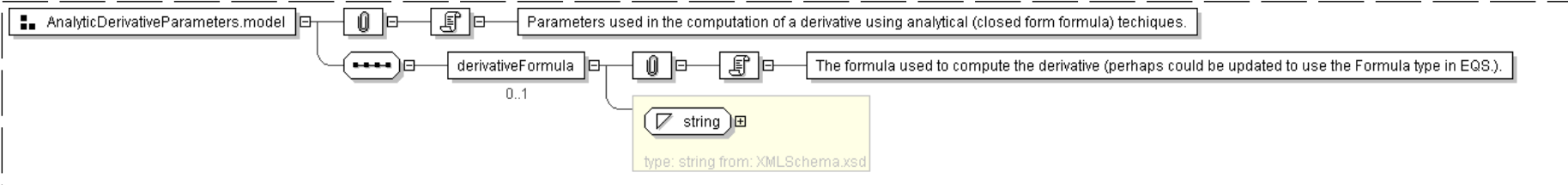
Model Group: **AnalyticDerivativeParameters.model**

Name	AnalyticDerivativeParameters.model
Used by (from the same schema document)	Model Group <a href="#">DerivativeCalculationParameters.model</a>
Documentation	Parameters used in the computation of a derivative using analytical (closed form formula) techniques.

XML Instance Representation

```
<derivativeFormula> xsd:string </derivativeFormula> [0..1]
'The formula used to compute the derivative (perhaps could be updated to use the Formula
type in EQS.).'
```

Diagram



Schema Component Representation

```
<xsd:group name="AnalyticDerivativeParameters.model">
  <xsd:sequence>
    <xsd:element name="derivativeFormula" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **ComputedDerivative.model**

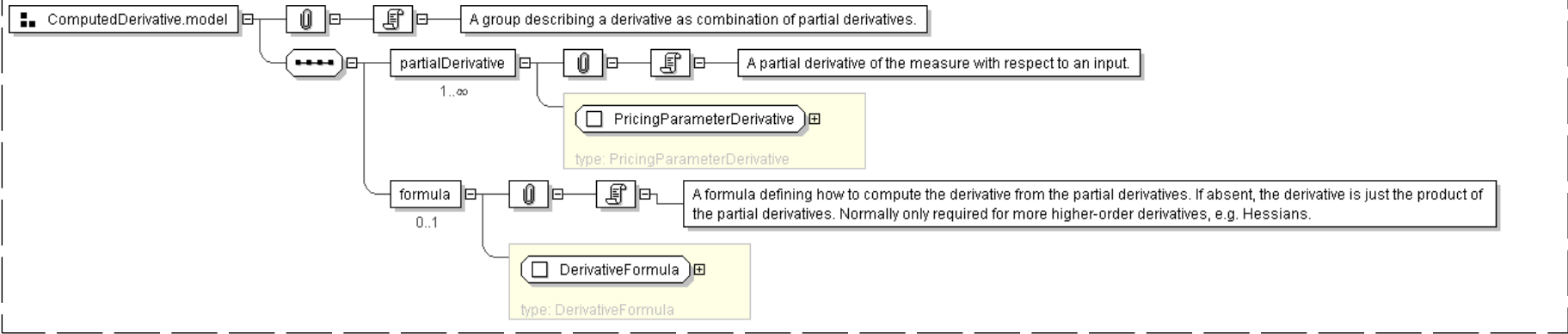
Name	ComputedDerivative.model
Used by (from the same schema document)	Complex Type <a href="#">SensitivityDefinition</a>
Documentation	A group describing a derivative as combination of partial derivatives.

XML Instance Representation

```
<partialDerivative> PricingParameterDerivative </partialDerivative> [1..*]
'A partial derivative of the measure with respect to an input.'
```

```
<formula> DerivativeFormula </formula> [0..1]
'A formula defining how to compute the derivative from the partial derivatives. If absent,
the derivative is just the product of the partial derivatives. Normally only required for
more higher-order derivatives, e.g. Hessians.'
```

Diagram



Schema Component Representation

```
<xsd:group name="ComputedDerivative.model">
  <xsd:sequence>
    <xsd:element name="partialDerivative" type=" PricingParameterDerivative "
      maxOccurs="unbounded"/>
    <xsd:element name="formula" type=" DerivativeFormula " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: [DerivativeCalculationParameters.model](#)

Name	DerivativeCalculationParameters.model
Used by (from the same schema document)	Complex Type <a href="#">DerivativeCalculationProcedure</a>
Documentation	Parameters used in the computation of a derivative.

XML Instance Representation

```
Start Choice [1]
<perturbationAmount> xsd:decimal </perturbationAmount> [0..1]
'The size and direction of the perturbation used to compute the derivative, e.g. 0.0001 = 1 bp.'
```

```
<averaged> xsd:boolean </averaged> [1]
'The value is calculated by perturbing by the perturbationAmount and then the negative of
the perturbationAmount and then averaging the two values (i.e. the value is half of
the difference between perturbing up and perturbing down).'
```

<perturbationType> [PerturbationType](#) </perturbationType> [0..1]

'The type of perturbation, if any, used to compute the derivative (Absolute vs Relative).'

<derivativeFormula> [xsd:string](#) </derivativeFormula> [0..1]

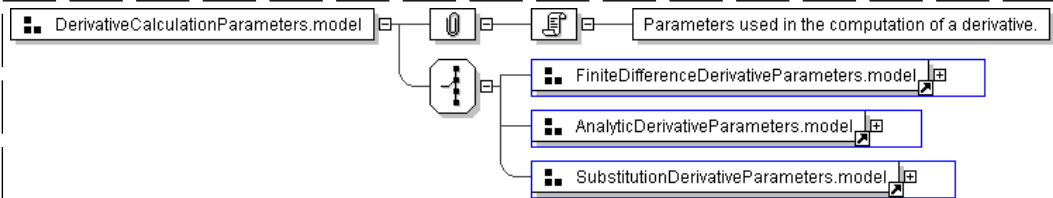
'The formula used to compute the derivative (perhaps could be updated to use the Formula type in EQS).'

<replacementMarketInput> [PricingStructureReference](#) </replacementMarketInput> [1]

'A reference to the replacement version of the market input, e.g. a bumped yield curve.'

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="DerivativeCalculationParameters.model">
  <xsd:choice>
    <xsd:group ref=" FiniteDifferenceDerivativeParameters.model " />
    <xsd:group ref=" AnalyticDerivativeParameters.model " />
    <xsd:group ref=" SubstitutionDerivativeParameters.model " />
  </xsd:choice>
</xsd:group>
```

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Model Group: [FiniteDifferenceDerivativeParameters.model](#)

Name	FiniteDifferenceDerivativeParameters.model
Used by (from the same schema document)	Model Group <a href="#">DerivativeCalculationParameters.model</a>
Documentation	Parameters used in the computation of a derivative using numerical (finite difference) techniques.

XML Instance Representation

<perturbationAmount> [xsd:decimal](#) </perturbationAmount> [0..1]

'The size and direction of the perturbation used to compute the derivative, e.g. 0.0001 = 1 bp.'

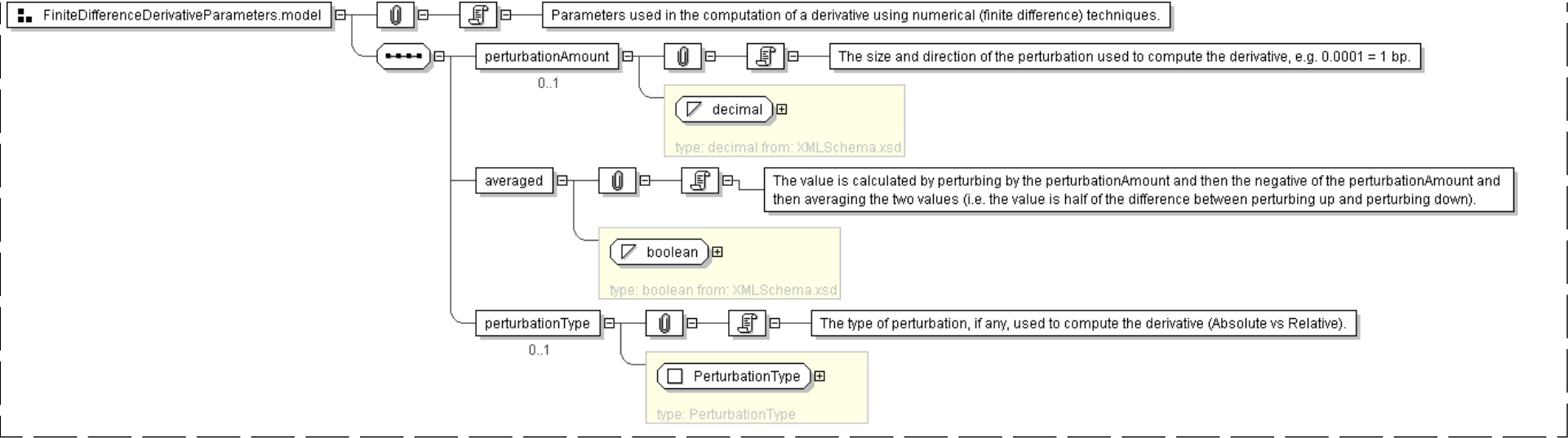
<averaged> [xsd:boolean](#) </averaged> [1]

'The value is calculated by perturbing by the perturbationAmount and then the negative of the perturbationAmount and then averaging the two values (i.e. the value is half of the difference between perturbing up and perturbing down).'

<perturbationType> [PerturbationType](#) </perturbationType> [0..1]

'The type of perturbation, if any, used to compute the derivative (Absolute vs Relative).'

Diagram



Schema Component Representation

```
<xsd:group name="FiniteDifferenceDerivativeParameters.model">
  <xsd:sequence>
    <xsd:element name="perturbationAmount" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="averaged" type="xsd:boolean" />
    <xsd:element name="perturbationType" type="PerturbationType" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **PositionIdAndVersion.model**

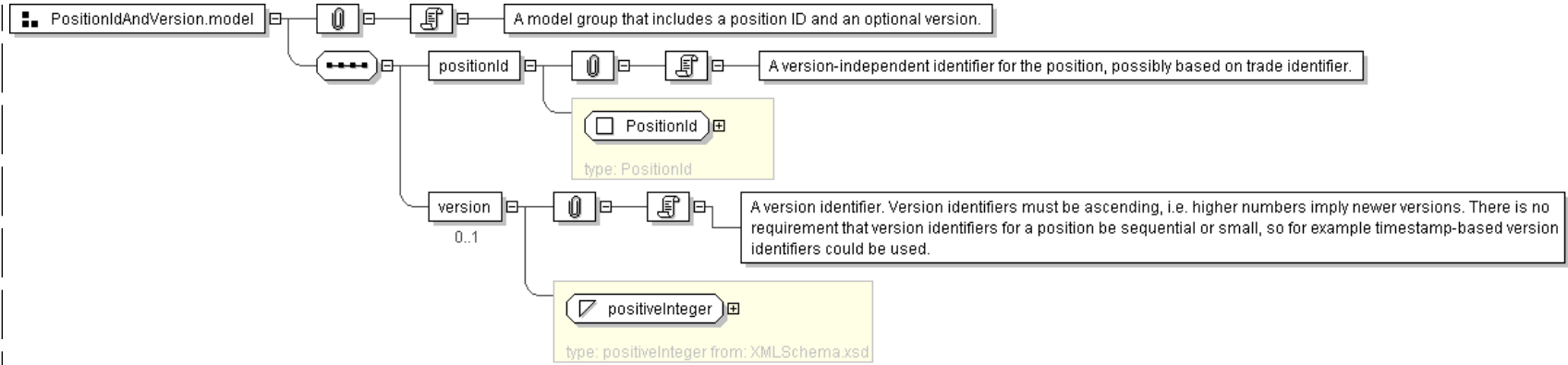
Name	PositionIdAndVersion.model
Documentation	A model group that includes a position ID and an optional version.

XML Instance Representation

```
<positionId> PositionId </positionId> [1]
'A version-independent identifier for the position, possibly based on trade identifier.'
```

```
<version> xsd:positiveInteger </version> [0..1]
'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply newer versions. There is no requirement that version identifiers for a position be sequential or small, so for example timestamp-based version identifiers could be used.'
```

Diagram



Schema Component Representation

```
<xsd:group name="PositionIdAndVersion.model">
  <xsd:sequence>
    <xsd:element name="positionId" type=" PositionId " />
    <xsd:element name="version" type=" xsd:positiveInteger " minOccurs="0" />
  </xsd:sequence>
</xsd:group>
```

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Model Group: PricingCoordinateOrReference.model

Name	PricingCoordinateOrReference.model
Used by (from the same schema document)	Model Group <a href="#">SensitivityDescription.model</a>
Documentation	A pricing structure coordinate, or a reference to one. This can be used to either directly define a coordinate or reference an existing coordinate.

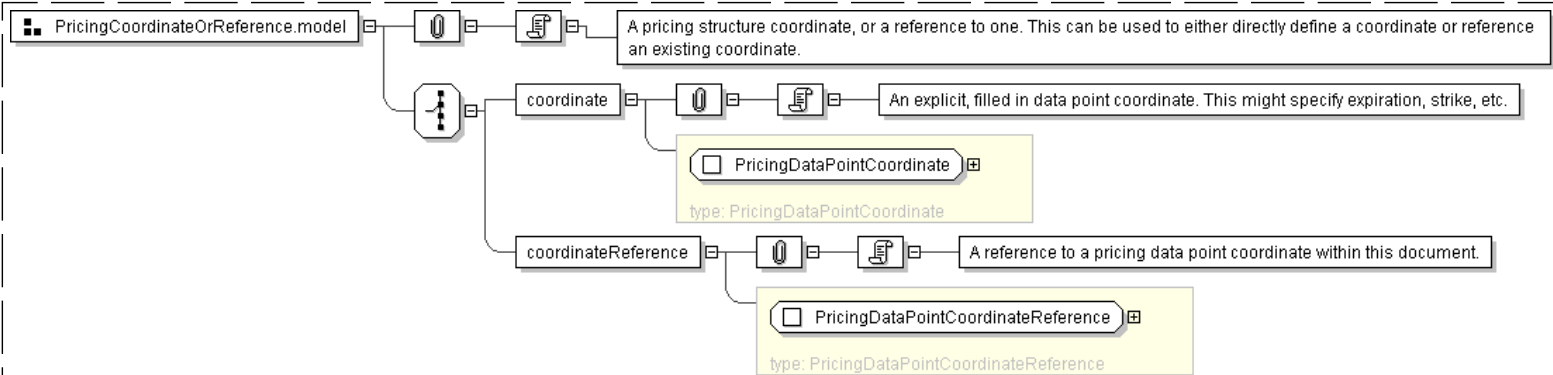
XML Instance Representation

```
Start Choice [1]
<coordinate> PricingDataPointCoordinate </coordinate> [1]
'An explicit, filled in data point coordinate. This might specify expiration, strike, etc.'
```

```
<coordinateReference> PricingDataPointCoordinateReference </coordinateReference> [1]
'A reference to a pricing data point coordinate within this document.'
```

```
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="PricingCoordinateOrReference.model">
  <xsd:choice>
    <xsd:element name="coordinate" type="PricingDataPointCoordinate"/>
    <xsd:element name="coordinateReference" type="PricingDataPointCoordinateReference"/>
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: PricingInputDates.model

Name	PricingInputDates.model
Used by (from the same schema document)	Complex Type <a href="#">PricingStructureValuation</a>
Documentation	The dates that might be relevant for a pricing input, e.g. what valuation date it applies to, when it was built, when the data comes from, etc..

XML Instance Representation

<baseDate> IdentifiedDate </baseDate> [1]

'The base date for which the structure applies, i.e. the curve date. Normally this will align with the valuation date.'

<spotDate> IdentifiedDate </spotDate> [0..1]

'The spot settlement date for which the structure applies, normally 0-2 days after the base date. The difference between the baseDate and the spotDate is termed the settlement lag, and is sometimes called \"days to spot\".'

<inputDataDate> IdentifiedDate </inputDataDate> [0..1]

'The date from which the input data used to construct the pricing input was obtained. Often the same as the baseDate, but sometimes the pricing input may be \"rolled forward\", in which input data from one date is used to generate a curve for a later date.'

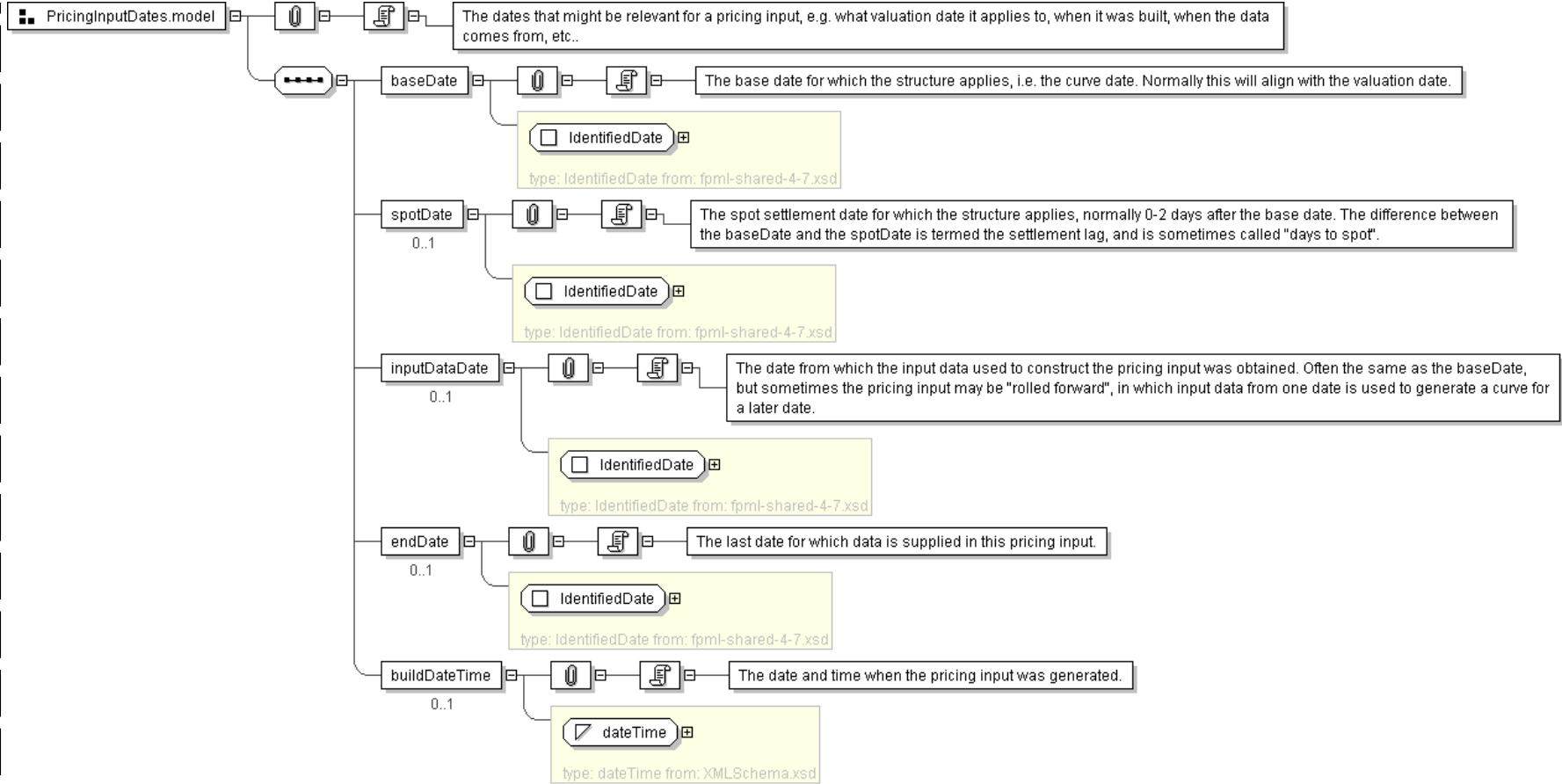
<endDate> IdentifiedDate </endDate> [0..1]

'The last date for which data is supplied in this pricing input.'

<buildDateTime> xsd:dateTime </buildDateTime> [0..1]

'The date and time when the pricing input was generated.'

Diagram



Schema Component Representation

```
<xsd:group name="PricingInputDates.model">
  <xsd:sequence>
    <xsd:element name="baseDate" type=" IdentifiedDate " />
    <xsd:element name="spotDate" type=" IdentifiedDate " minOccurs="0"/>
    <xsd:element name="inputDataDate" type=" IdentifiedDate " minOccurs="0"/>
    <xsd:element name="endDate" type=" IdentifiedDate " minOccurs="0"/>
    <xsd:element name="buildDateTime" type=" xsd:dateTime " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: PricingStructureIndex.model

Name	PricingStructureIndex.model
Used by (from the same schema document)	Complex Type <a href="#">PricingDataPointCoordinate</a>
Documentation	The index (an ordinate) of a pricing structure. The index expresses how far along a particular dimension (e.g. time, strike, etc.) a point is located.

XML Instance Representation

```
Start Choice [1]
  <term> TimeDimension </term> [1]
```



'A time dimension that represents the term of a financial instrument, e.g. of a zero-coupon bond on a curve, or of an underlying caplet or swap for an option.'

<expiration> [TimeDimension](#) </expiration> [1]

'A time dimension that represents the time to expiration of an option.'

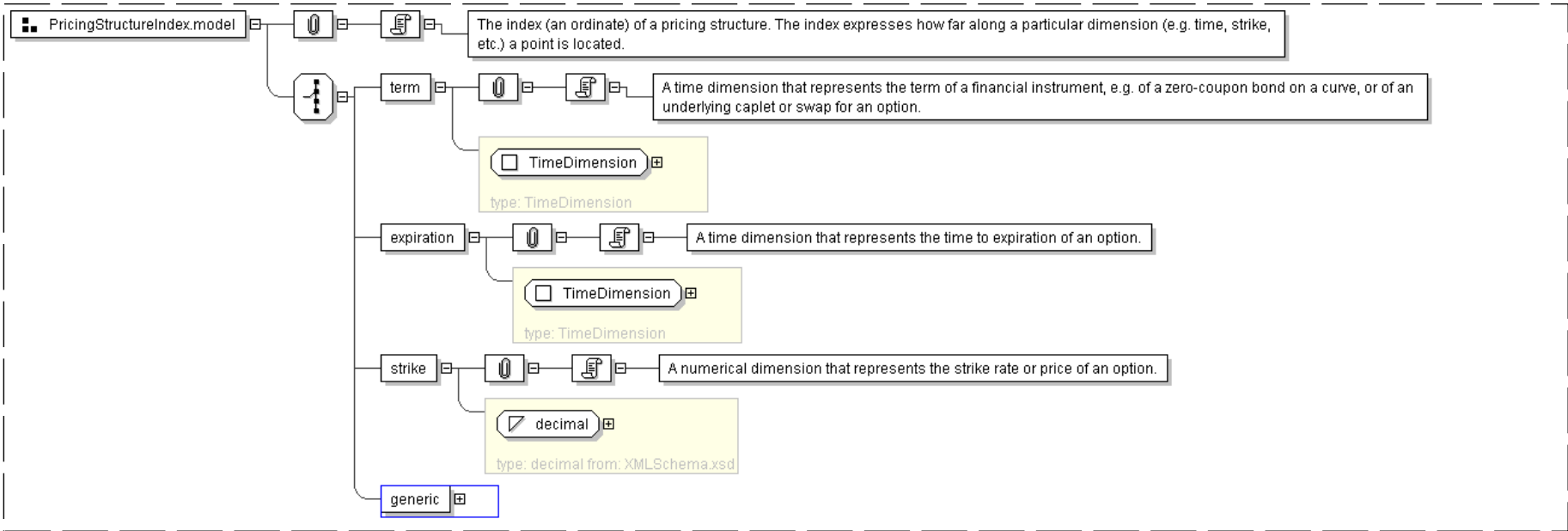
<strike> [xsd:decimal](#) </strike> [1]

'A numerical dimension that represents the strike rate or price of an option.'

<generic> [GenericDimension](#) </generic> [1]

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="PricingStructureIndex.model">
  <xsd:choice>
    <xsd:element name="term" type="TimeDimension" />
    <xsd:element name="expiration" type="TimeDimension" />
    <xsd:element name="strike" type="xsd:decimal" />
    <xsd:element name="generic" type="GenericDimension" />
  </xsd:choice>
</xsd:group>
```

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Model Group: SensitivityDescription.model

Name	SensitivityDescription.model
Used by (from the same schema document)	Complex Type <a href="#">SensitivityDefinition</a>
Documentation	A group describing a specific sensitivity without an explicity reference to the market data input point.

XML Instance Representation

```
Start Choice [1]
  <term> TimeDimension </term> [1]
```

'The time dimension of the sensitivity point (tenor and/or date).'

Start Group: PricingCoordinateOrReference.model [1..\*]

'The input coordinates, or references to them (e.g. expiration, strike, tenor).'

Start Choice [1]

<coordinate> PricingDataPointCoordinate </coordinate> [1]

'An explicit, filled in data point coordinate. This might specify expiration, strike, etc.'

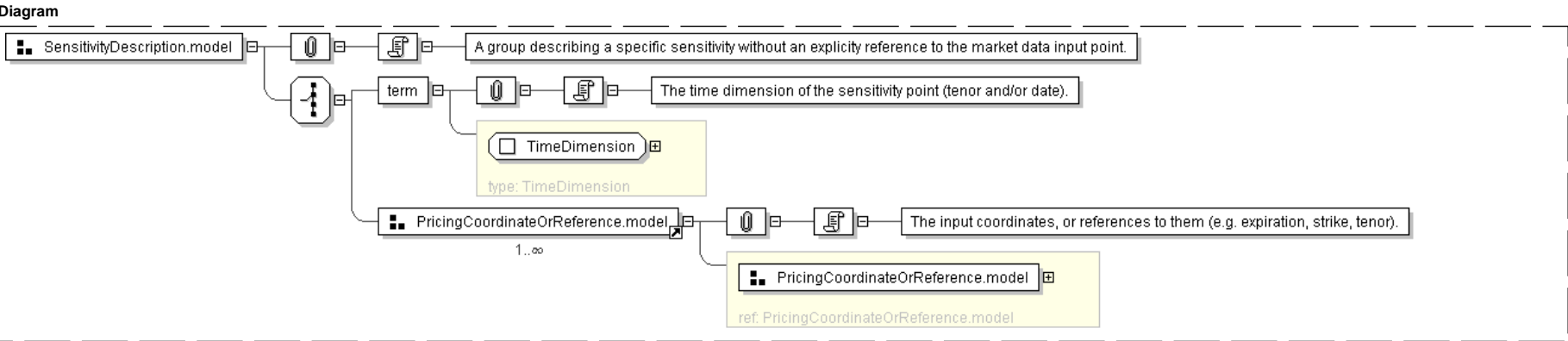
<coordinateReference> PricingDataPointCoordinateReference </coordinateReference> [1]

'A reference to a pricing data point coordinate within this document.'

End Choice

End Group: PricingCoordinateOrReference.model

End Choice



Schema Component Representation

```
<xsd:group name="SensitivityDescription.model">
  <xsd:choice>
    <xsd:element name="term" type="TimeDimension" />
    <xsd:group ref="PricingCoordinateOrReference.model" maxOccurs="unbounded"/>
  </xsd:choice>
</xsd:group>
```

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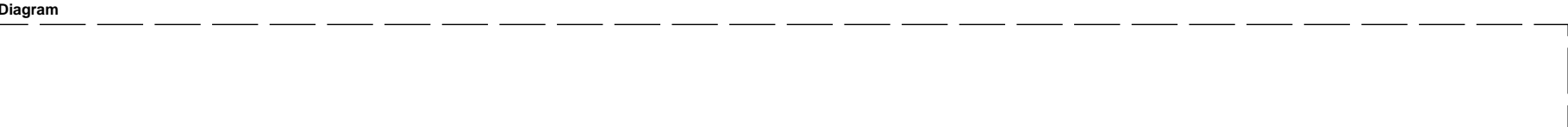
Model Group: SubstitutionDerivativeParameters.model

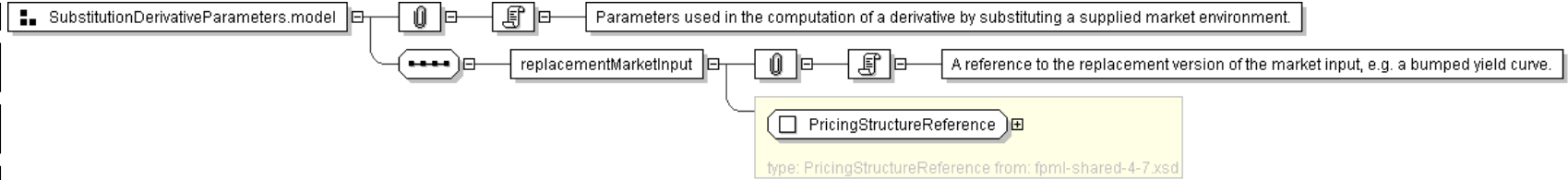
Name	SubstitutionDerivativeParameters.model
Used by (from the same schema document)	Model Group DerivativeCalculationParameters.model
Documentation	Parameters used in the computation of a derivative by substituting a supplied market environment.

XML Instance Representation

<replacementMarketInput> PricingStructureReference </replacementMarketInput> [1]

'A reference to the replacement version of the market input, e.g. a bumped yield curve.'





Schema Component Representation

```
<xsd:group name="SubstitutionDerivativeParameters.model">
  <xsd:sequence>
    <xsd:element name="replacementMarketInput" type="PricingStructureReference" />
  </xsd:sequence>
</xsd:group>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">OLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
```

```
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates " />
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}" />
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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- Complex Type: [Exchangeld](#)
- Complex Type: [Exercise](#)
- Complex Type: [ExerciseFee](#)
- Complex Type: [ExerciseFeeSchedule](#)
- Complex Type: [ExerciseNotice](#)
- Complex Type: [ExerciseProcedure](#)
- Complex Type: [FloatingRate](#)
- Complex Type: [FloatingRateCalculation](#)
- Complex Type: [FloatingRateIndex](#)
- Complex Type: [ForecastRateIndex](#)
- Complex Type: [Formula](#)
- Complex Type: [FormulaComponent](#)
- Complex Type: [Frequency](#)
- Complex Type: [FutureValueAmount](#)
- Complex Type: [FxCashSettlement](#)
- Complex Type: [FxFixing](#)
- Complex Type: [FxRate](#)
- Complex Type: [FxSpotRateSource](#)
- Complex Type: [GoverningLaw](#)
- Complex Type: [IdentifiedCurrency](#)
- Complex Type: [IdentifiedCurrencyReference](#)
- Complex Type: [IdentifiedDate](#)
- Complex Type: [IdentifiedPayerReceiver](#)
- Complex Type: [InformationProvider](#)
- Complex Type: [InformationSource](#)
- Complex Type: [InstrumentId](#)
- Complex Type: [InterestAccrualsCompoundingMethod](#)
- Complex Type: [InterestAccrualsMethod](#)
- Complex Type: [IntermediaryInformation](#)
- Complex Type: [InterpolationMethod](#)
- Complex Type: [Leg](#)
- Complex Type: [LegalEntity](#)
- Complex Type: [LegalEntityReference](#)
- Complex Type: [MainPublication](#)
- Complex Type: [ManualExercise](#)
- Complex Type: [MasterAgreement](#)
- Complex Type: [MasterAgreementType](#)
- Complex Type: [MasterAgreementVersion](#)
- Complex Type: [MasterConfirmation](#)
- Complex Type: [MasterConfirmationAnnexType](#)
- Complex Type: [MasterConfirmationType](#)
- Complex Type: [Math](#)
- Complex Type: [MatrixTerm](#)
- Complex Type: [MatrixType](#)
- Complex Type: [MimeType](#)
- Complex Type: [Money](#)
- Complex Type: [MoneyBase](#)
- Complex Type: [MultipleExchangeAnnex](#)
- Complex Type: [MultipleExercise](#)
- Complex Type: [NonNegativeAmountSchedule](#)
- Complex Type: [NonNegativeMoney](#)

- Complex Type: [NonNegativePayment](#)
- Complex Type: [NonNegativeSchedule](#)
- Complex Type: [NonNegativeStep](#)
- Complex Type: [NotionalAmount](#)
- Complex Type: [NotionalAmountReference](#)
- Complex Type: [NotionalReference](#)
- Complex Type: [Offset](#)
- Complex Type: [OffsetPrevailingTime](#)
- Complex Type: [PartialExercise](#)
- Complex Type: [Party](#)
- Complex Type: [PartyId](#)
- Complex Type: [PartyOrAccountReference](#)
- Complex Type: [PartyOrTradeSideReference](#)
- Complex Type: [PartyReference](#)
- Complex Type: [Payment](#)
- Complex Type: [PaymentBase](#)
- Complex Type: [PaymentBaseExtended](#)
- Complex Type: [PaymentCurrency](#)
- Complex Type: [PaymentReference](#)
- Complex Type: [PaymentType](#)
- Complex Type: [Period](#)
- Complex Type: [PeriodicDates](#)
- Complex Type: [PositiveAmountSchedule](#)
- Complex Type: [PositiveMoney](#)
- Complex Type: [PositivePayment](#)
- Complex Type: [PositiveSchedule](#)
- Complex Type: [PositiveStep](#)
- Complex Type: [PrevailingTime](#)
- Complex Type: [PricingStructure](#)
- Complex Type: [PricingStructureReference](#)
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- Complex Type: [Product](#)
- Complex Type: [ProductId](#)
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- Complex Type: [RateSourcePage](#)
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- Complex Type: [ReferenceBank](#)
- Complex Type: [ReferenceBankId](#)
- Complex Type: [RelativeDateOffset](#)
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- Complex Type: [RelativeDates](#)
- Complex Type: [RequiredIdentifierDate](#)
- Complex Type: [ResetFrequency](#)
- Complex Type: [ReturnSwapNotionalAmountReference](#)
- Complex Type: [Rounding](#)
- Complex Type: [Routing](#)
- Complex Type: [RoutingExplicitDetails](#)
- Complex Type: [RoutingId](#)
- Complex Type: [RoutingIds](#)
- Complex Type: [RoutingIdsAndExplicitDetails](#)
- Complex Type: [Schedule](#)
- Complex Type: [ScheduleReference](#)
- Complex Type: [SettlementInformation](#)
- Complex Type: [SettlementInstruction](#)
- Complex Type: [SettlementMethod](#)
- Complex Type: [SettlementPriceDefaultElection](#)



- Complex Type: [SettlementPriceSource](#)
- Complex Type: [SettlementRateSource](#)
- Complex Type: [SharedAmericanExercise](#)
- Complex Type: [SimplePayment](#)
- Complex Type: [SplitSettlement](#)
- Complex Type: [SpreadSchedule](#)
- Complex Type: [SpreadScheduleReference](#)
- Complex Type: [SpreadScheduleType](#)
- Complex Type: [Step](#)
- Complex Type: [StepBase](#)
- Complex Type: [StreetAddress](#)
- Complex Type: [Strike](#)
- Complex Type: [StrikeSchedule](#)
- Complex Type: [Stub](#)
- Complex Type: [StubValue](#)
- Complex Type: [TimezoneLocation](#)
- Model Group: [BusinessCentersOrReference.model](#)
- Model Group: [BuyerSeller.model](#)
- Model Group: [FloatingRateIndex.model](#)
- Model Group: [PartialExercise.model](#)
- Model Group: [PayerReceiver.model](#)
- Model Group: [PaymentDiscounting.model](#)
- Model Group: [Period.model](#)
- Model Group: [Premium.model](#)
- Model Group: [Product.model](#)
- Model Group: [RoutingExplicitDetails.model](#)
- Model Group: [RoutingIdentification.model](#)
- Model Group: [SettlementAmountOrCurrency.model](#)
- Model Group: [VersionHistory.model](#)
- Simple Type: [CorrelationValue](#)
- Simple Type: [HourMinuteTime](#)
- Simple Type: [NonNegativeDecimal](#)
- Simple Type: [PositiveDecimal](#)
- Simple Type: [RestrictedPercentage](#)
- Simple Type: [Scheme](#)
- Simple Type: [Token60](#)

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6826 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-enum-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6826 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-enum-4-7.xsd"/>
  ...
</xsd:schema>
```

[top](#)

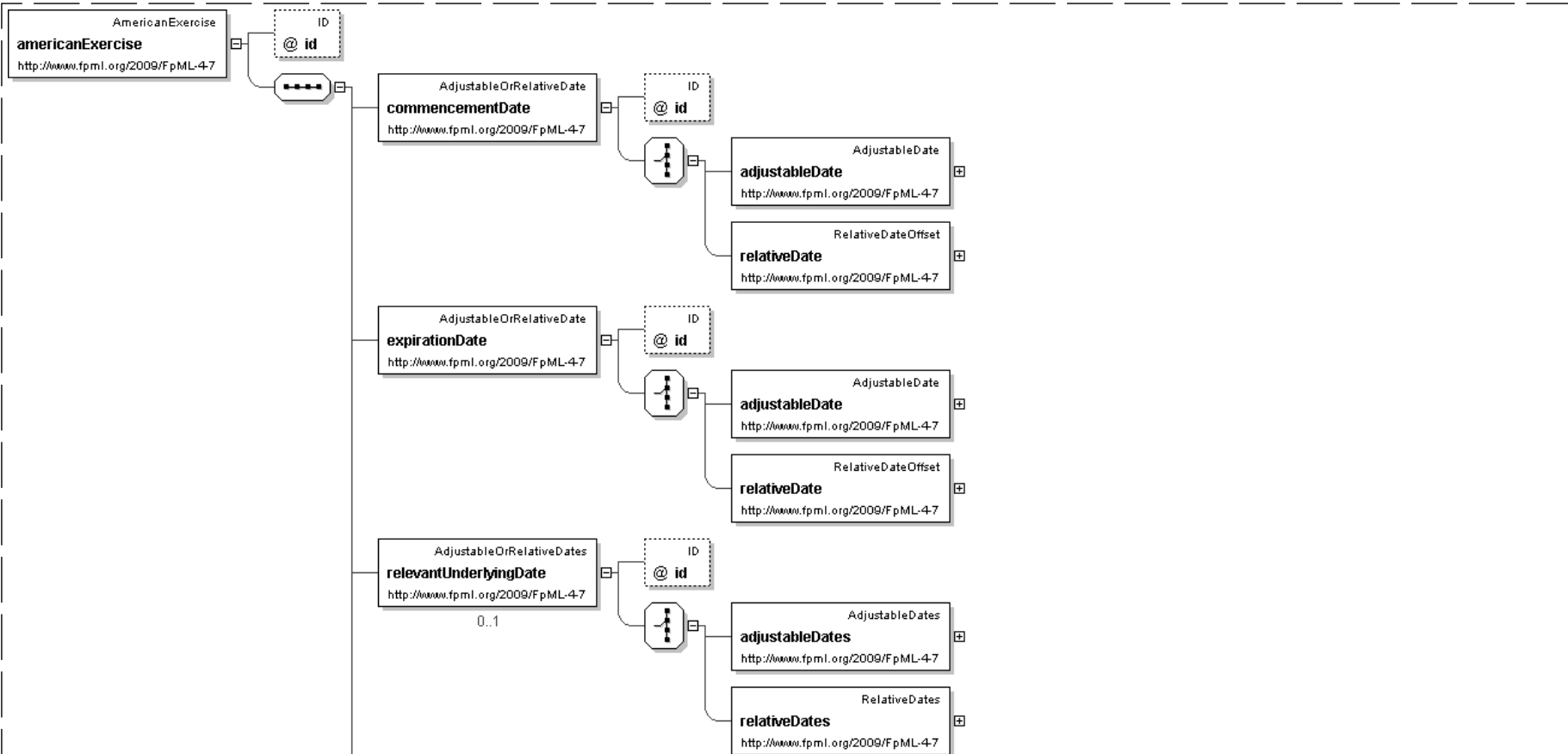
Global Declarations

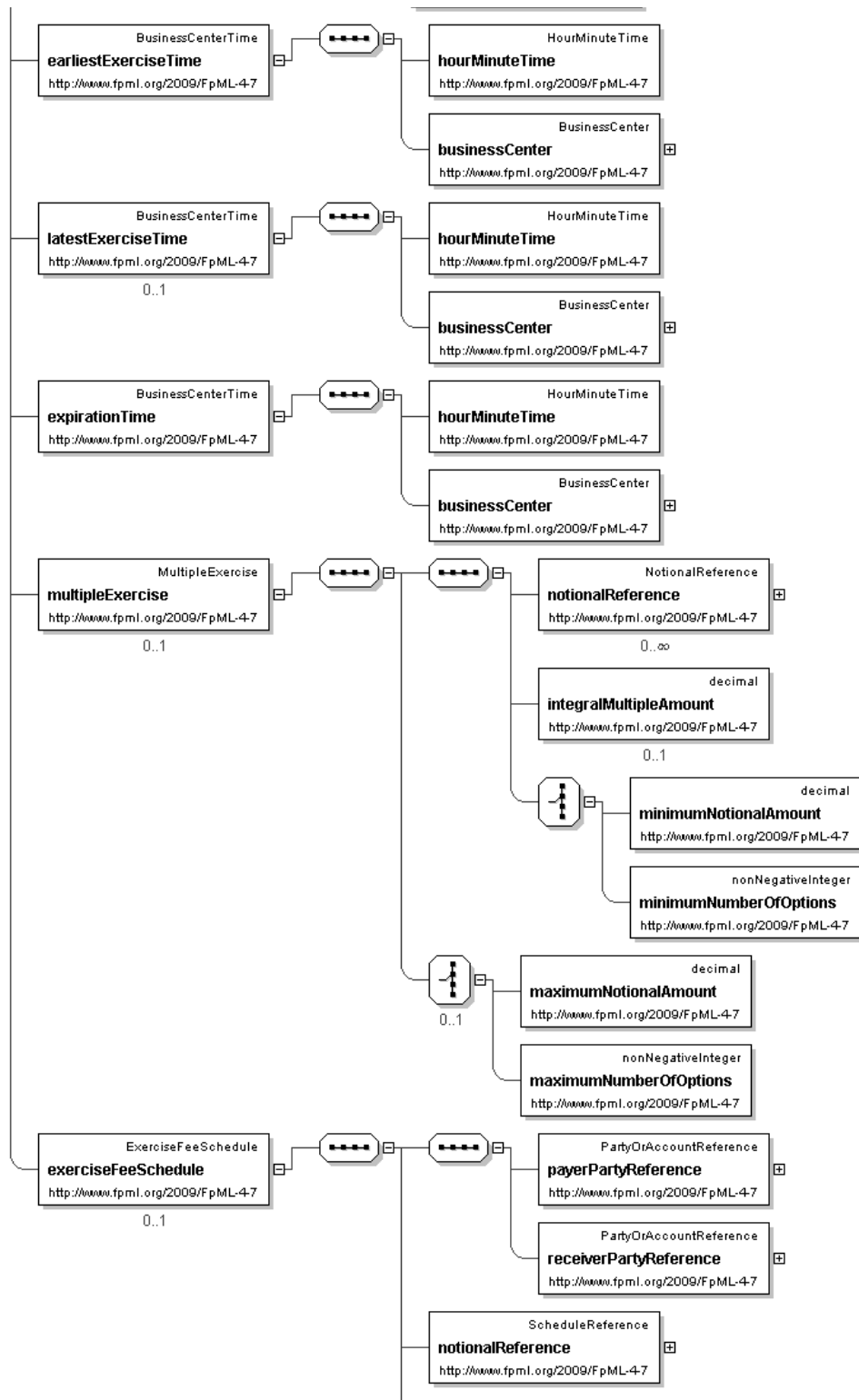
Element: **americanExercise**

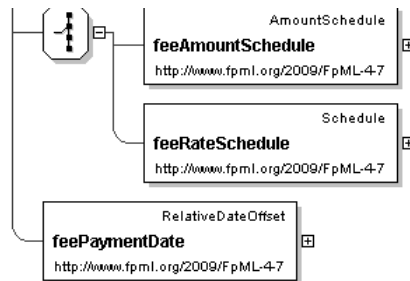
- This element can be used wherever the following element is referenced:
  - [exercise](#)

Name	americanExercise
Type	<a href="#">AmericanExercise</a>
Niltable	no
Abstract	no
Documentation	The parameters for defining the exercise period for an American style option together with any rules governing the notional amount of the underlying which can be exercised on any given exercise date and any associated exercise fees.

Logical Diagram







## XML Instance Representation

```

<americanExercise
  id=" xsd:ID [0..1]">
  <commencementDate> AdjustableOrRelativeDate </commencementDate> [1]
  'The first day of the exercise period for an American style option.'

  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

  <relevantUnderlyingDate> AdjustableOrRelativeDates </relevantUnderlyingDate> [0..1]
  'The days on the underlying set by the exercise of an option. What this date is depends on
  the option (e.g. in a swaption it is the effective date, in an extendible/cancelable
  provision it is the termination date).'

  <earliestExerciseTime> BusinessCenterTime </earliestExerciseTime> [1]
  'The earliest time at which notice of exercise can be given by the buyer to the seller
  (or seller\'s agent) i) on the expiration date, in the case of a European style option, (ii)
  on each bermuda option exercise date and the expiration date, in the case of a Bermuda
  style option the commencement date to, and including, the expiration date , in the case of
  an American option.'

  <latestExerciseTime> BusinessCenterTime </latestExerciseTime> [0..1]
  'For a Bermuda or American style option, the latest time on an exercise business day
  (excluding the expiration date) within the exercise period that notice can be given by
  the buyer to the seller or seller\'s agent. Notice of exercise given after this time will
  be deemed to have been given on the next exercise business day.'

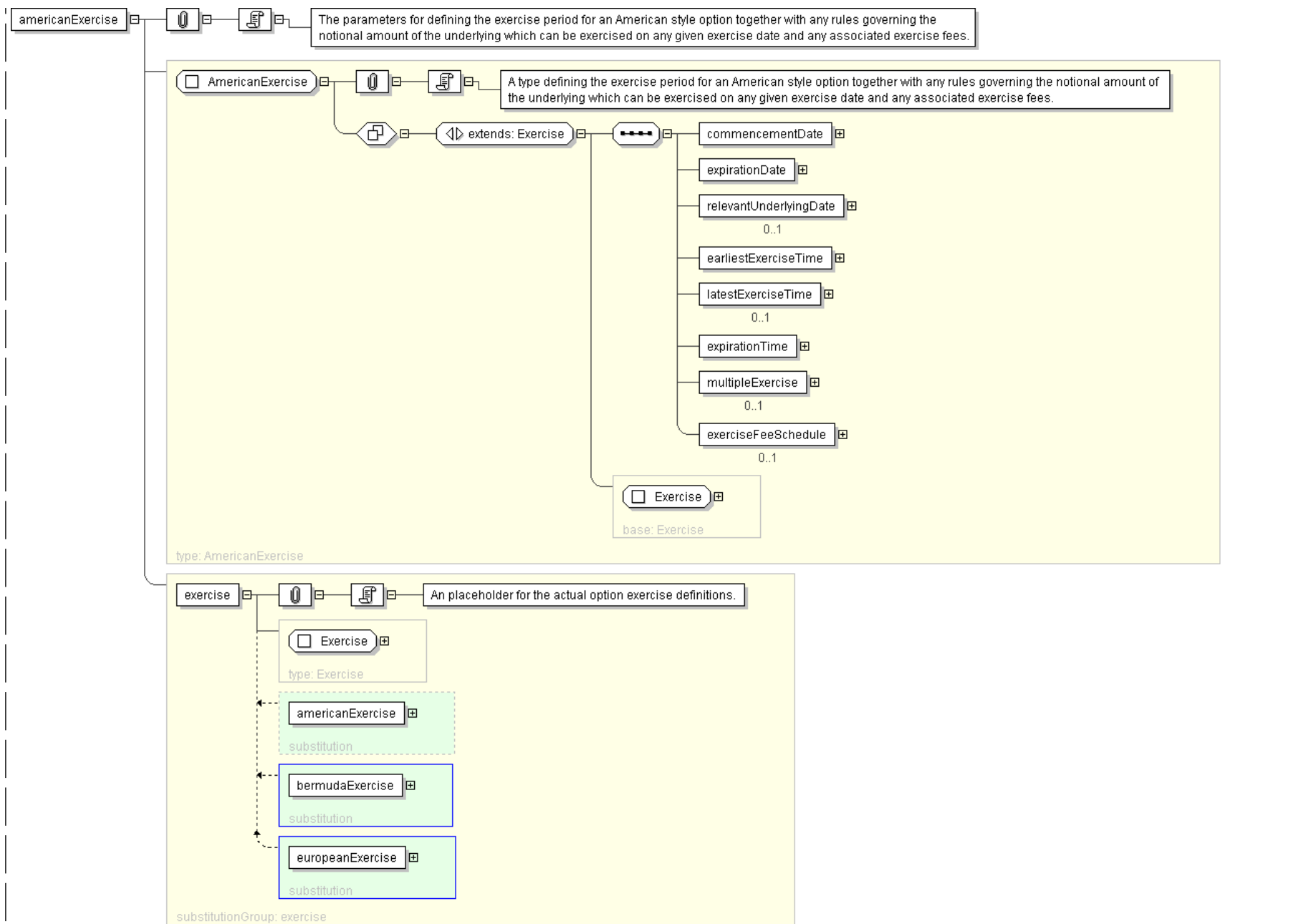
  <expirationTime> BusinessCenterTime </expirationTime> [1]
  'The latest time for exercise on expirationDate.'

  <multipleExercise> MultipleExercise </multipleExercise> [0..1]
  'As defined in the 2000 ISDA Definitions, Section 12.4. Multiple Exercise, the buyer of
  the option has the right to exercise all or less than all the unexercised notional amount
  of the underlying swap on one or more days in the exercise period, but on any such day may
  not exercise less than the minimum notional amount or more than the maximum notional
  amount, and if an integral multiple amount is specified, the notional amount exercised must
  be equal to, or be an intergral multiple of, the integral multiple amount.'

  <exerciseFeeSchedule> ExerciseFeeSchedule </exerciseFeeSchedule> [0..1]
  'The fees associated with an exercise date. The fees are conditional on the exercise
  occurring. The fees can be specified as actual currency amounts or as percentages of
  the notional amount being exercised.'

</americanExercise>
  
```

## Diagram



## Schema Component Representation

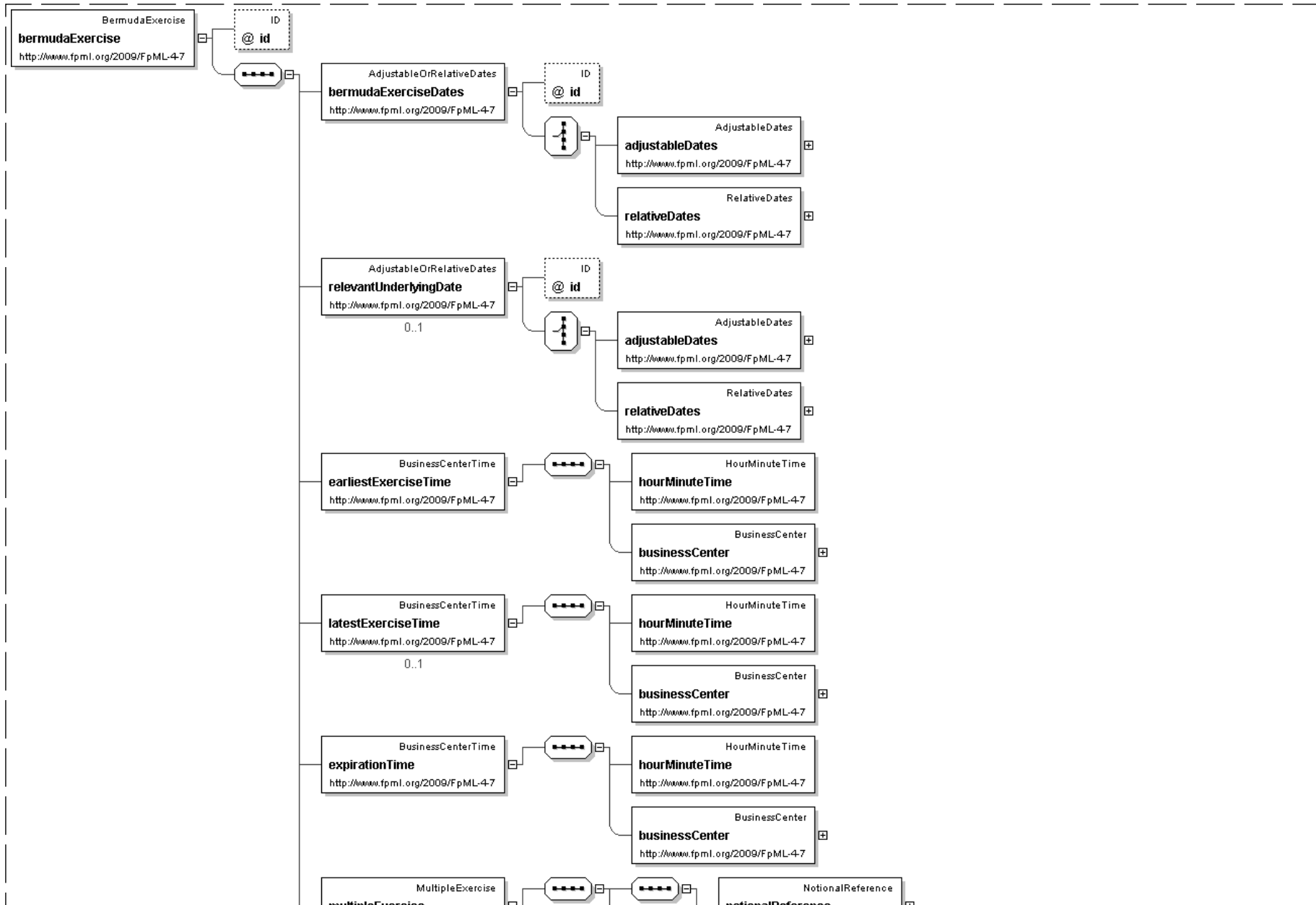
```
<xsd:element name="americanExercise" type="AmericanExercise" substitutionGroup="exercise"/>
```

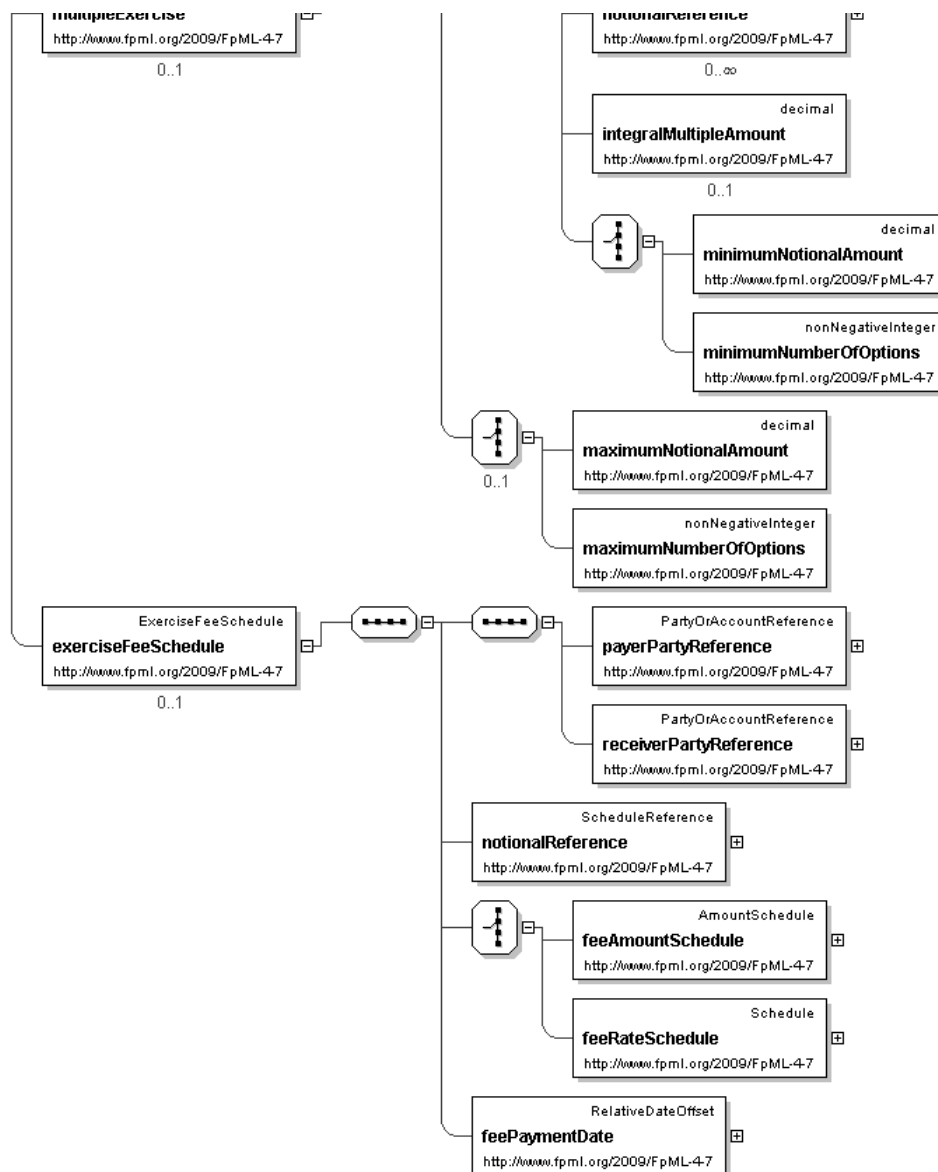
- This element can be used wherever the following element is referenced:

- [exercise](#)

<b>Name</b>	bermudaExercise
<b>Type</b>	<a href="#">BermudaExercise</a>
<b>Nullable</b>	no
<b>Abstract</b>	no
<b>Documentation</b>	The parameters for defining the exercise period for a Bermuda style option together with any rules governing the notional amount of the underlying which can be exercised on any given exercise date and any associated exercise fees.

#### Logical Diagram





### XML Instance Representation

```
<bermudaExercise
  id="xsd:ID [0..1]">
  <bermudaExerciseDates> AdjustableOrRelativeDates </bermudaExerciseDates> [1]
  'The dates the define the Bermuda option exercise dates and the expiration date. The
  last specified date is assumed to be the expiration date. The dates can either be specified
  as a series of explicit dates and associated adjustments or as a series of dates
  defined relative to another schedule of dates, for example, the calculation period start
  dates. Where a relative series of dates are defined the first and last possible exercise
  dates can be separately specified.'
```

```
<relevantUnderlyingDate> AdjustableOrRelativeDates </relevantUnderlyingDate> [0..1]
  'The day on the underlying set by the exercise of an option. What this date is depends on
  the option (e.g. in a swaption it is the effective date, in an extendible/cancelable
```

provision it is the termination date).'

<earliestExerciseTime> BusinessCenterTime </earliestExerciseTime> [1]

'The earliest time at which notice of exercise can be given by the buyer to the seller (or seller's agent) i) on the expiration date, in the case of a European style option, (ii) on each bermuda option exercise date and the expiration date, in the case of a Bermuda style option the commencement date to, and including, the expiration date , in the case of an American option.'

<latestExerciseTime> BusinessCenterTime </latestExerciseTime> [0..1]

'For a Bermuda or American style option, the latest time on an exercise business day (excluding the expiration date) within the exercise period that notice can be given by the buyer to the seller or seller's agent. Notice of exercise given after this time will be deemed to have been given on the next exercise business day.'

<expirationTime> BusinessCenterTime </expirationTime> [1]

'The latest time for exercise on expirationDate.'

<multipleExercise> MultipleExercise </multipleExercise> [0..1]

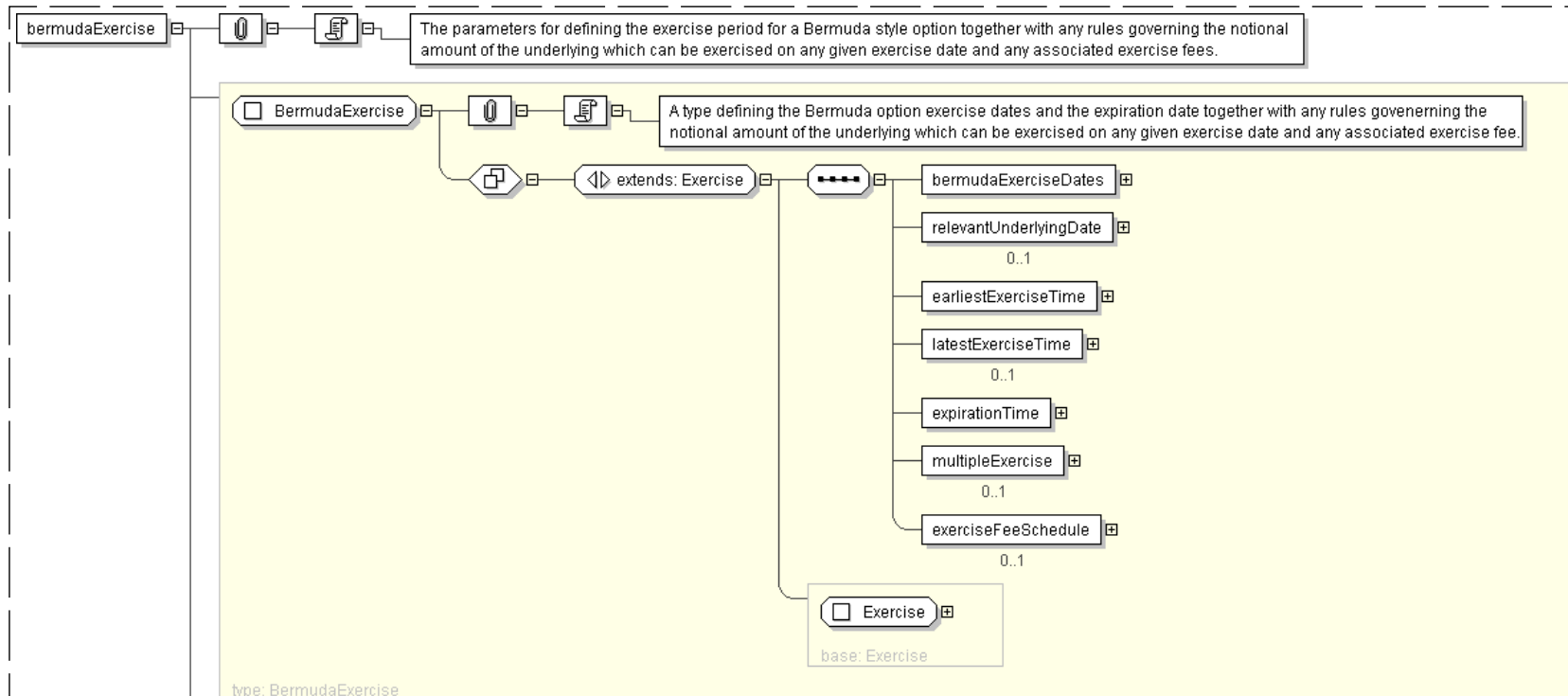
'As defined in the 2000 ISDA Definitions, Section 12.4. Multiple Exercise, the buyer of the option has the right to exercise all or less than all the unexercised notional amount of the underlying swap on one or more days in the exercise period, but on any such day may not exercise less than the minimum notional amount or more than the maximum notional amount, and if an integral multiple amount is specified, the notional amount exercised must be equal to, or be an integral multiple of, the integral multiple amount.'

<exerciseFeeSchedule> ExerciseFeeSchedule </exerciseFeeSchedule> [0..1]

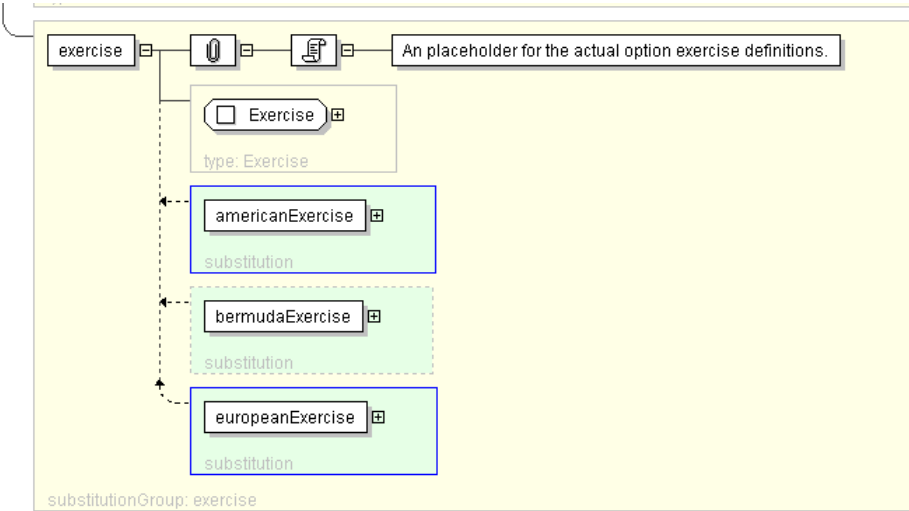
'The fees associated with an exercise date. The fees are conditional on the exercise occurring. The fees can be specified as actual currency amounts or as percentages of the notional amount being exercised.'

</bermudaExercise>

## Diagram







Schema Component Representation

```
<xsd:element name="bermudaExercise" type="BermudaExercise" substitutionGroup="exercise"/>
```

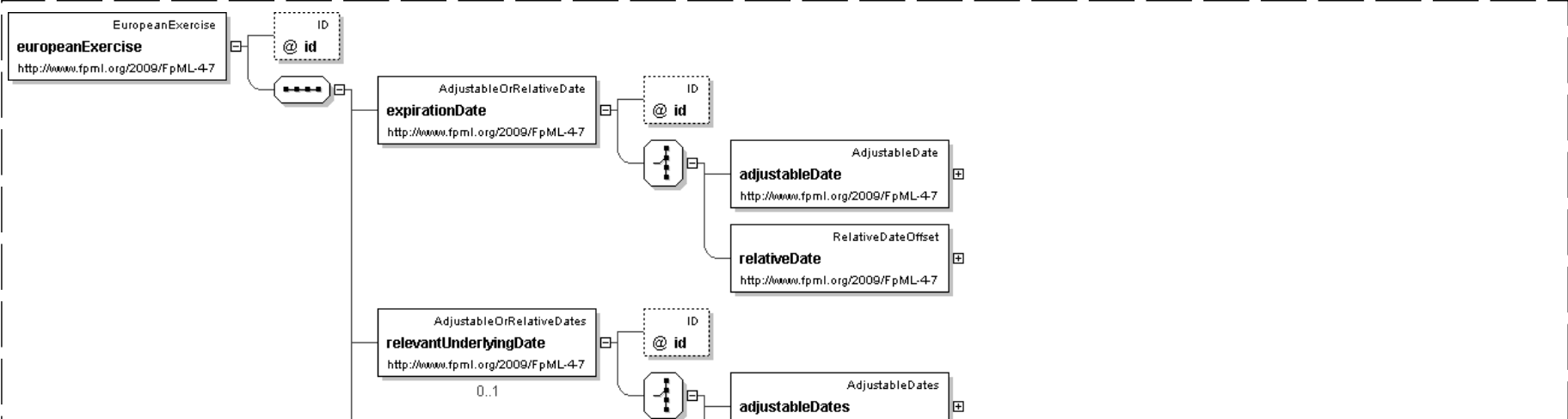
[top](#)

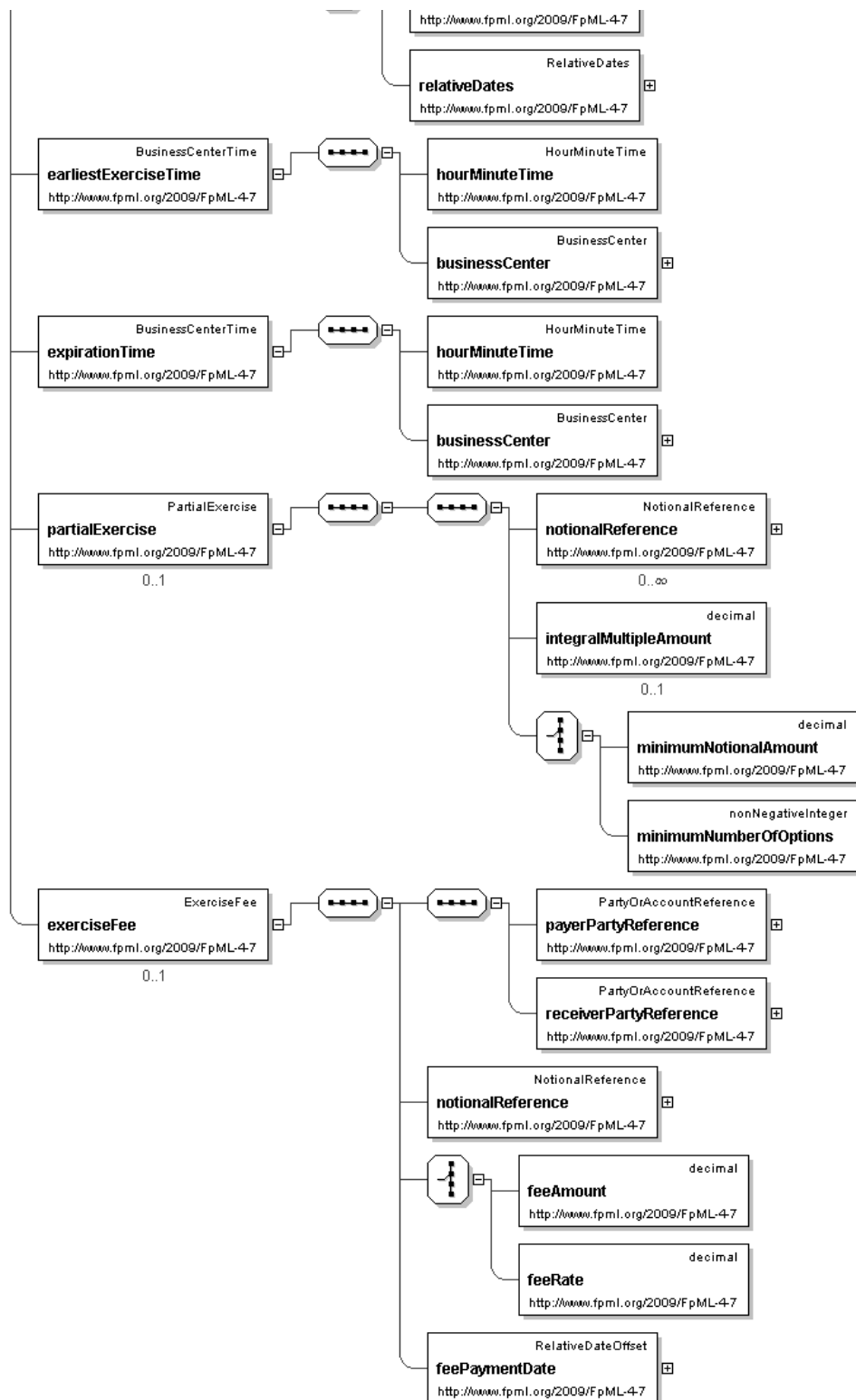
Element: **europeanExercise**

- This element can be used wherever the following element is referenced:
  - [exercise](#)

Name	europeanExercise
Type	<a href="#">EuropeanExercise</a>
Niltable	no
Abstract	no
Documentation	The parameters for defining the exercise period for a European style option together with any rules governing the notional amount of the underlying which can be exercised on any given exercise date and any associated exercise fees.

Logical Diagram



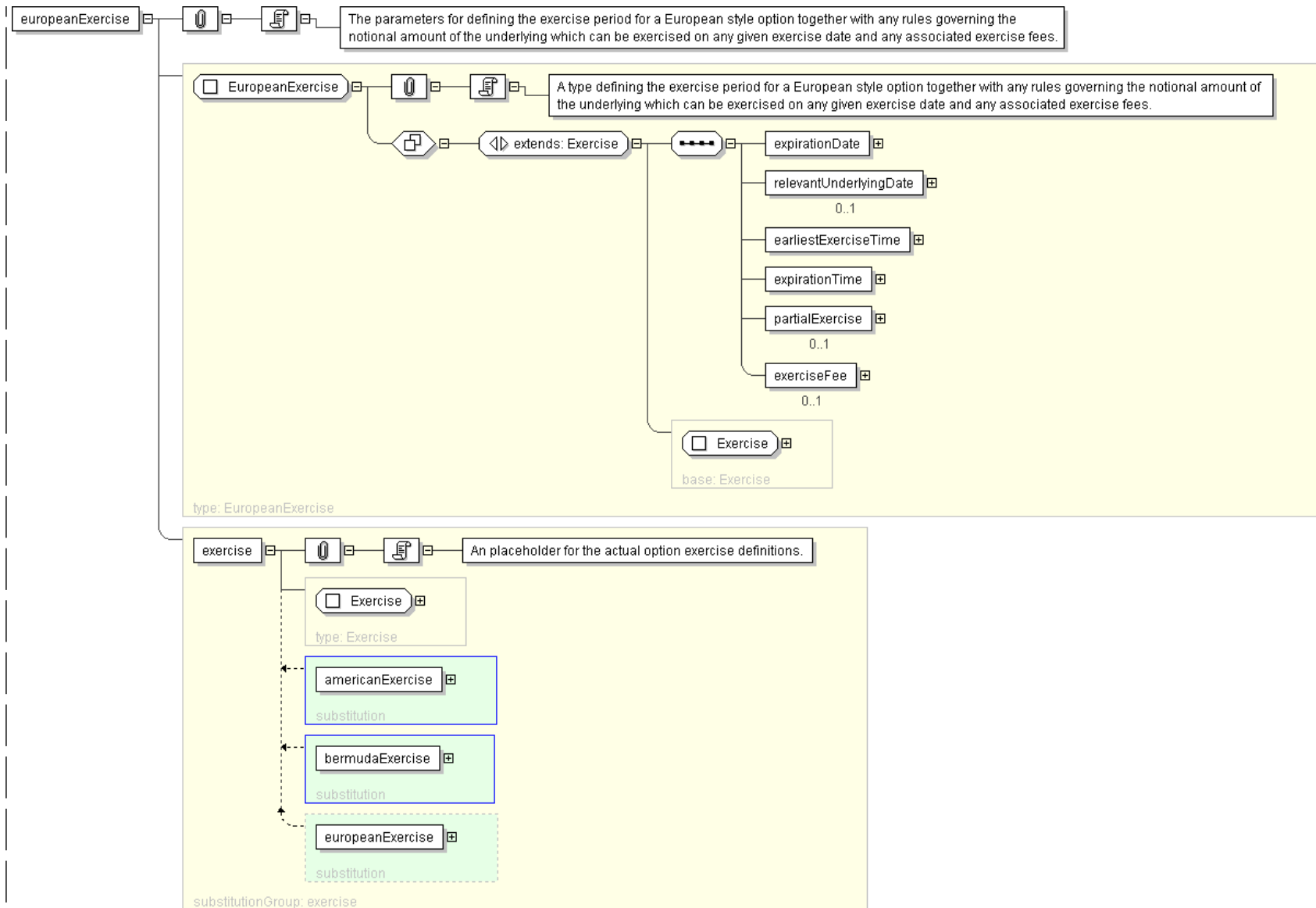


XML Instance Representation

```
<europeanExercise
id=" xsd:ID \[0..1\]">
  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

  <relevantUnderlyingDate> AdjustableOrRelativeDates </relevantUnderlyingDate> [0..1]
  'The daye on the underlying set by the exercise of an option. What this date is depends on
  the option (e.g. in a swaption it is the effective date, in an extendible/cancelable
  provision it is the termination date).'BusinessCenterTime </earliestExerciseTime> [1]
  'The earliest time at which notice of exercise can be given by the buyer to the seller
  (or seller\'s agent) i) on the expriation date, in the case of a European style option, (ii)
  on each bermuda option exercise date and the expiration date, in the case of a Bermuda
  style option the commencement date to, and including, the expiration date , in the case of
  an American option.'BusinessCenterTime </expirationTime> [1]
  'The latest time for exercise on expirationDate.'PartialExercise </partialExercise> [0..1]
  'As defined in the 2000 ISDA Definitions, Section 12.3. Partial Exercise, the buyer of
  the option has the right to exercise all or less than all the notional amount of the
  underlying swap on the expiration date, but may not exercise less than the minimum
  notional amount, and if an integral multiple amount is specified, the notional amount
  exercised must be equal to, or be an integral multiple of, the integral multiple amount.'ExerciseFee </exerciseFee> [0..1]
  'A fee to be paid on exercise. This could be represented as an amount or a rate and
  notional reference on which to apply the rate.'
```

Diagram



#### Schema Component Representation

```
<xsd:element name="europeanExercise" type="EuropeanExercise" substitutionGroup="exercise"/>
```

[top](#)

#### Element: **exercise**

The following elements can be used wherever this element is referenced:

- [americanExercise](#)
- [bermudaExercise](#)
- [europeanExercise](#)

Name	exercise
Type	<a href="#">Exercise</a>
Niltable	no
Abstract	yes
Documentation	An placeholder for the actual option exercise definitions.

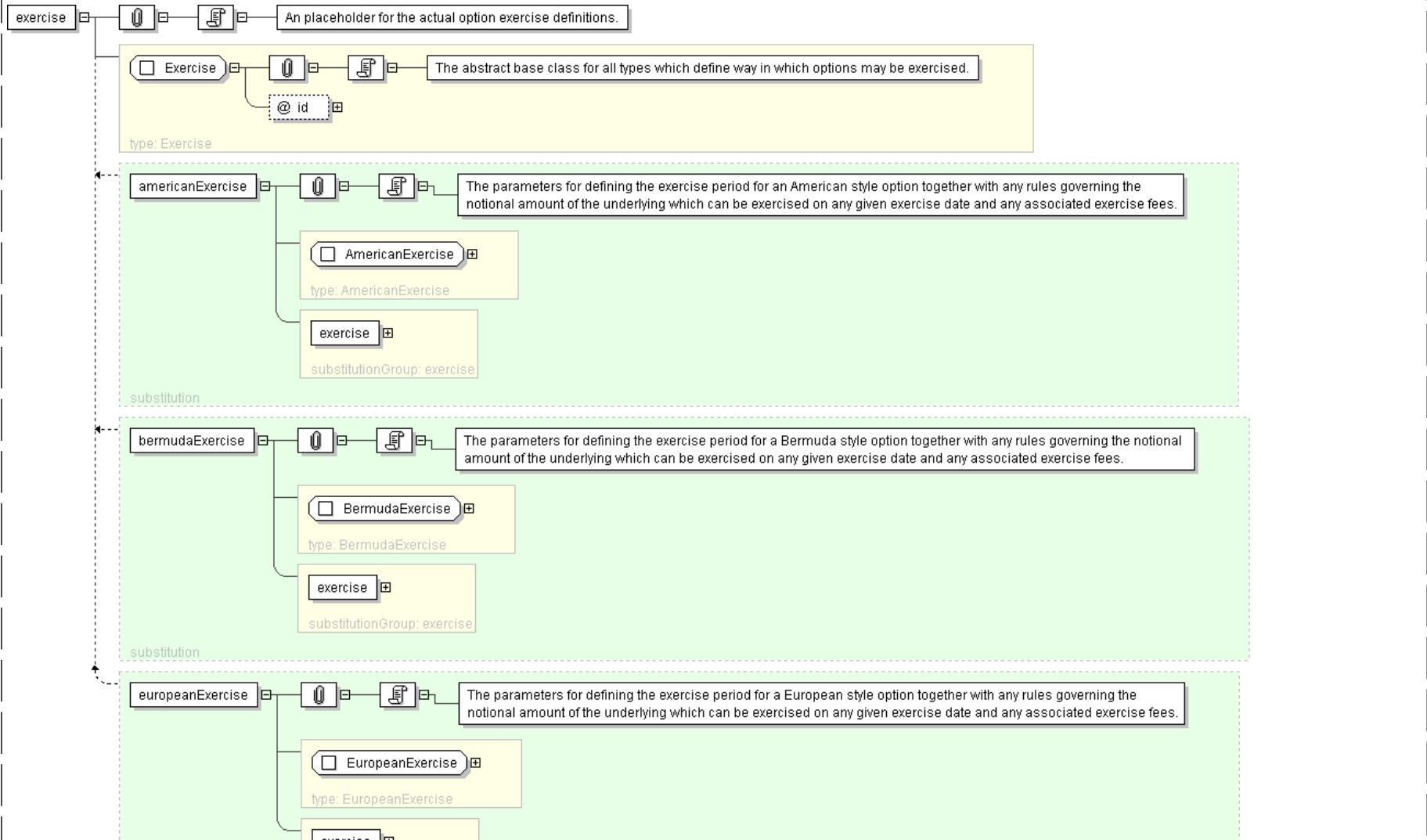
Logical Diagram



XML Instance Representation

```
<exercise
id="xsd:ID [0..1]"/>
```

Diagram





Schema Component Representation

```
<xsd:element name="exercise" type="Exercise" abstract="true"/>
```

[top](#)

Element: product

Name	product
Type	<a href="#">Product</a>
Niltable	no
Abstract	yes
Documentation	An abstract element used as a place holder for the substituting product elements.

Logical Diagram



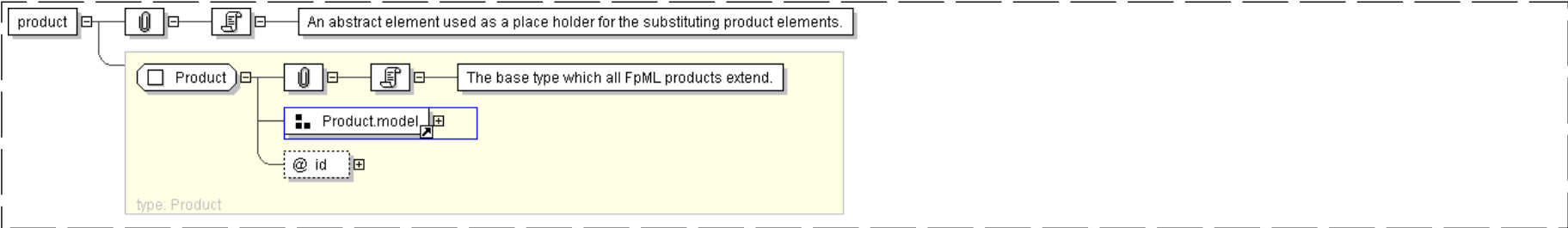
XML Instance Representation

```
<product
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

</product>
```

Diagram



Schema Component Representation

```
<xsd:element name="product" type=" Product " abstract="true"/>
```

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Global Definitions

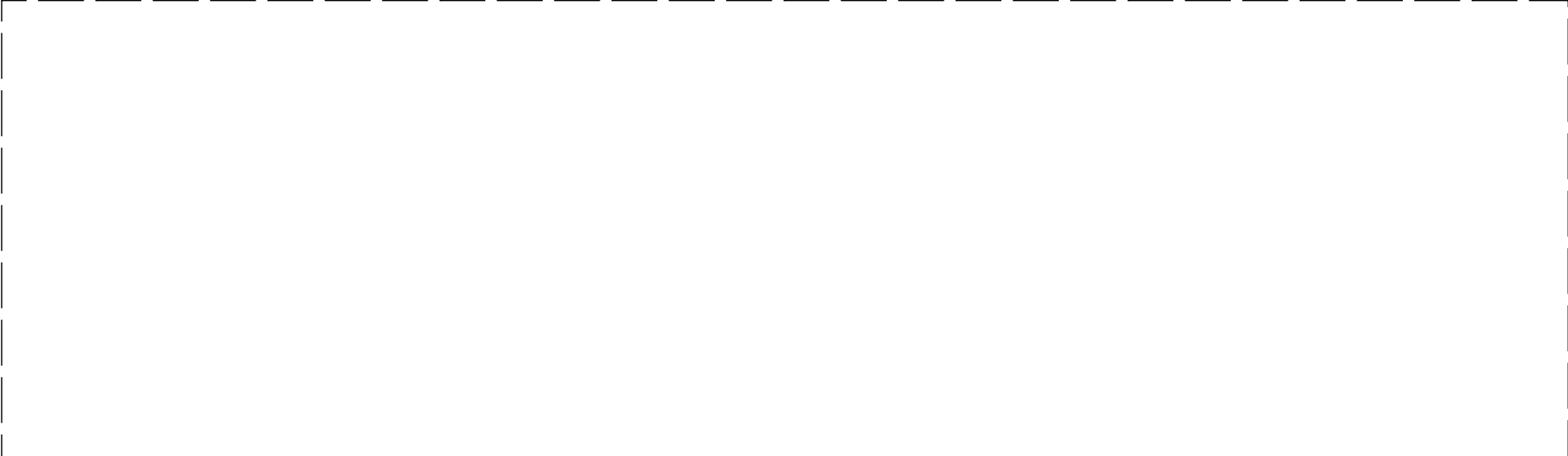
Complex Type: **Account**

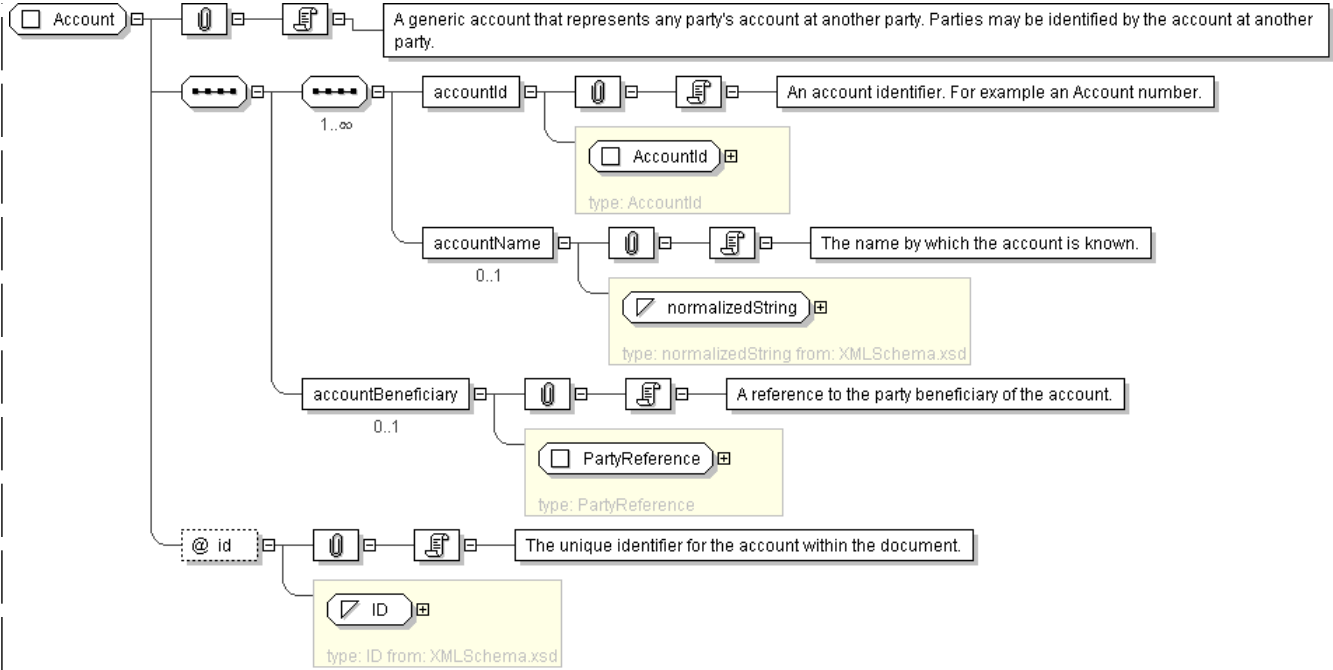
Super-types:	None
Sub-types:	None
Name	Account
Used by (from the same schema document)	Complex Type <a href="#">Party</a>
Abstract	no
Documentation	A generic account that represents any party's account at another party. Parties may be identified by the account at another party.

XML Instance Representation

```
<...  
id=" xsd:ID [1]  
'The unique identifier for the account within the document.'  
  
">  
Start Sequence [1..*]  
  <accountId> AccountId </accountId> [1]  
  'An account identifier. For example an Account number.'  
  
  <accountName> xsd:normalizedString </accountName> [0..1]  
  'The name by which the account is known.'  
  
End Sequence  
  <accountBeneficiary> PartyReference </accountBeneficiary> [0..1]  
  'A reference to the party beneficiary of the account.'  
  
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Account">
  <xsd:sequence>
    <xsd:sequence maxOccurs="unbounded">
      <xsd:element name="accountId" type=" AccountId " />
      <xsd:element name="accountName" type=" xsd:normalizedString " minOccurs="0"/>
    </xsd:sequence>
    <xsd:element name="accountBeneficiary" type=" PartyReference " minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " use="required"/>
</xsd:complexType>
```

[top](#)

Complex Type: AccountId

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>AccountId</b> (by extension)
Sub-types:	None

Name	AccountId
Used by (from the same schema document)	Complex Type <a href="#">Account</a>
Abstract	no
Documentation	The data type used for party identifiers.

XML Instance Representation

```
<...
  accountIdScheme=" xsd:anyURI [0..1]
  'The identifier scheme used with this accountId. A unique URI to determine the
  authoritative issuer of these identifiers.'
">
  Scheme
```



</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AccountId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="accountIdScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: AccountReference

Super-types:	<a href="#">Reference</a> < <b>AccountReference</b> (by extension)
Sub-types:	None

Name	AccountReference
Abstract	no
Documentation	Reference to an account.

XML Instance Representation

<...  
href=" xsd:IDREF [1]"/>

Diagram



Schema Component Representation

```
<xsd:complexType name="AccountReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference "
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="Account"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: Address

Super-types:	None
Sub-types:	None
Name	Address
Used by (from the same schema document)	Model Group <a href="#">RoutingExplicitDetails.model</a>
Abstract	no
Documentation	A type that represents a physical postal address.

XML Instance Representation

<...>

<streetAddress> [StreetAddress](#) </streetAddress> [0..1]

'The set of street and building number information that identifies a postal address within a city.'

<city> [xsd:string](#) </city> [0..1]

'The city component of a postal address.'

<state> [xsd:string](#) </state> [0..1]

'A country subdivision used in postal addresses in some countries. For example, US states, Canadian provinces, Swiss cantons.'

<country> [Country](#) </country> [0..1]

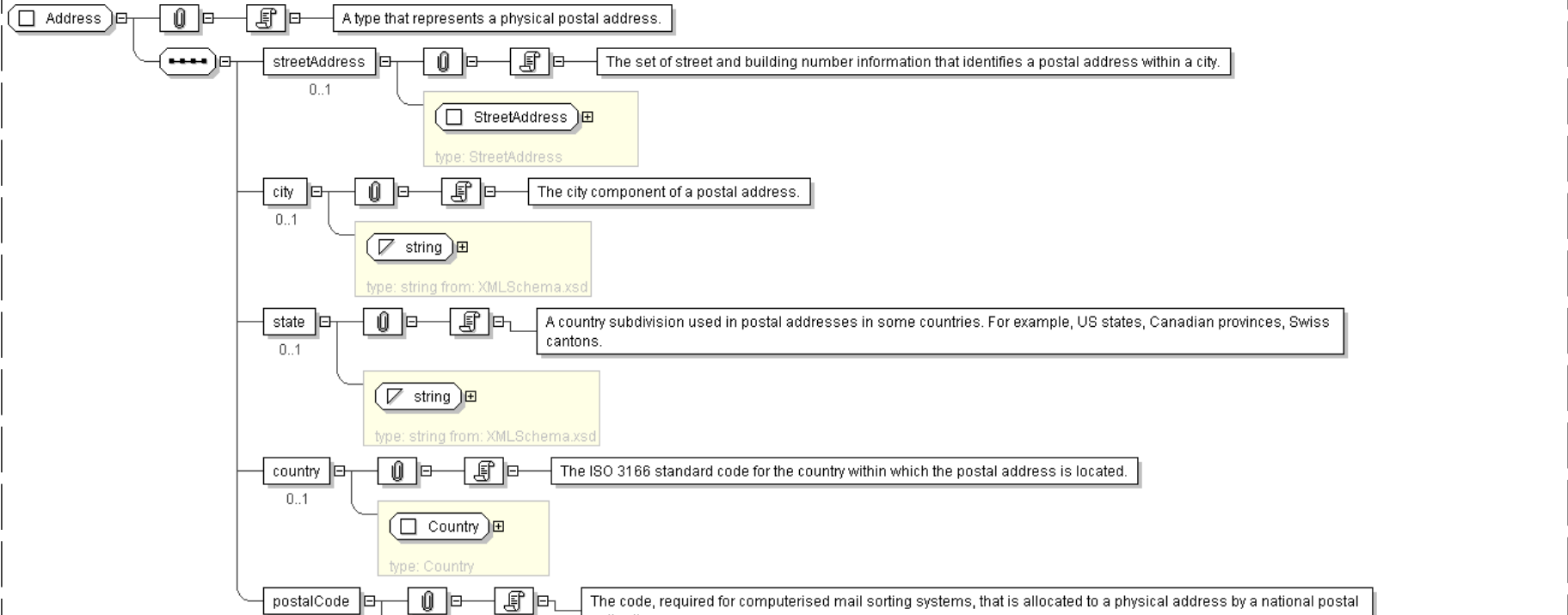
'The ISO 3166 standard code for the country within which the postal address is located.'

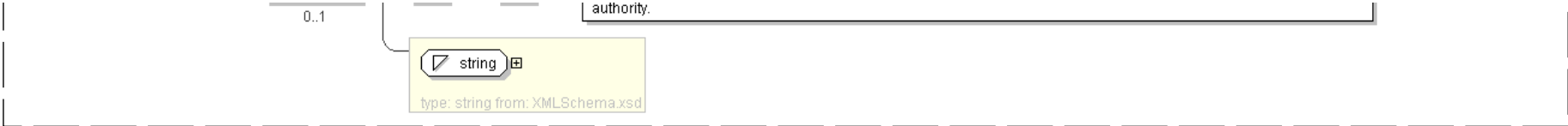
<postalCode> [xsd:string](#) </postalCode> [0..1]

'The code, required for computerised mail sorting systems, that is allocated to a physical address by a national postal authority.'

</...>

Diagram





Schema Component Representation

```
<xsd:complexType name="Address">
  <xsd:sequence>
    <xsd:element name="streetAddress" type=" StreetAddress " minOccurs="0"/>
    <xsd:element name="city" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="state" type=" xsd:string " minOccurs="0"/>
    <xsd:element name="country" type=" Country " minOccurs="0"/>
    <xsd:element name="postalCode" type=" xsd:string " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **AdjustableDate**

Super-types:	None
Sub-types:	None
Name	AdjustableDate
Used by (from the same schema document)	Complex Type <a href="#">AdjustableOrRelativeDate</a> , Complex Type <a href="#">Payment</a>
Abstract	no
Documentation	A type for defining a date that shall be subject to adjustment if it would otherwise fall on a day that is not a business day in the specified business centers, together with the convention for adjusting the date.

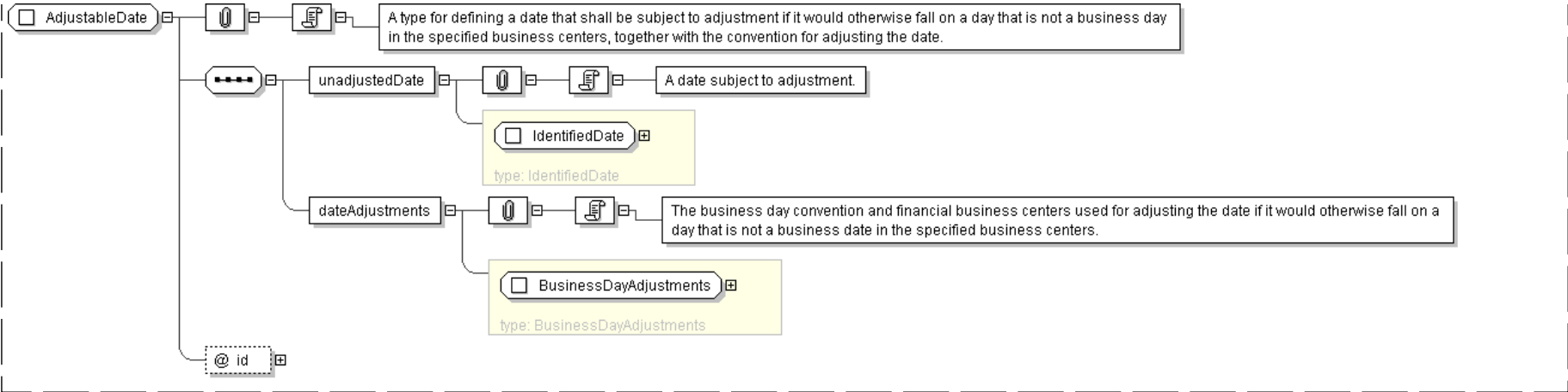
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <unadjustedDate> IdentifiedDate </unadjustedDate> [1]
  'A date subject to adjustment.'

  <dateAdjustments> BusinessDayAdjustments </dateAdjustments> [1]
  'The business day convention and financial business centers used for adjusting the date if
  it would otherwise fall on a day that is not a business date in the specified business centers.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableDate">
  <xsd:sequence>
    <xsd:element name="unadjustedDate" type=" IdentifiedDate" />
    <xsd:element name="dateAdjustments" type=" BusinessDayAdjustments" />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: AdjustableDate2

Super-types:	None
Sub-types:	None
Name	AdjustableDate2
Abstract	no
Documentation	A type that is different from AdjustableDate in two regards. First, date adjustments can be specified with either a dateAdjustments element or a reference to an existing dateAdjustments element. Second, it does not require the specification of date adjustments.

XML Instance Representation

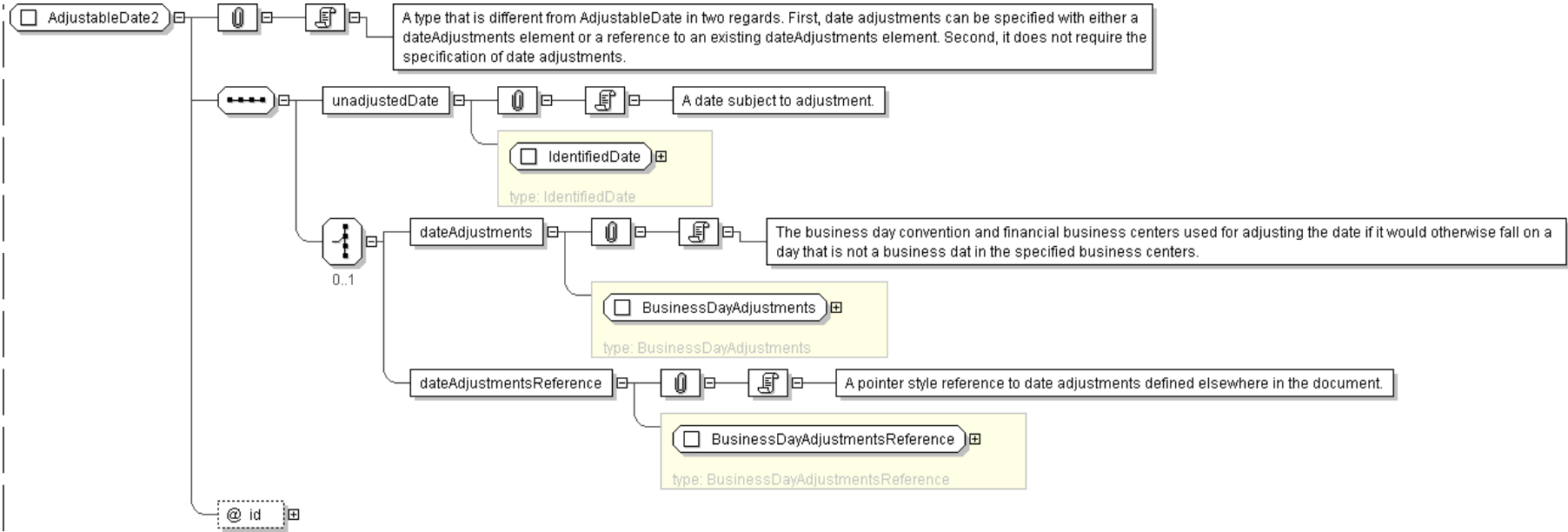
```
<...
id=" xsd:ID [0..1]">
  <unadjustedDate> IdentifiedDate </unadjustedDate> [1]
  'A date subject to adjustment.'

  Start Choice [0..1]
    <dateAdjustments> BusinessDayAdjustments </dateAdjustments> [1]
    'The business day convention and financial business centers used for adjusting the date if
    it would otherwise fall on a day that is not a business dat in the specified business centers.'

    <dateAdjustmentsReference> BusinessDayAdjustmentsReference </dateAdjustmentsReference> [1]
    'A pointer style reference to date adjustments defined elsewhere in the document.'

  End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableDate2">
  <xsd:sequence>
    <xsd:element name="unadjustedDate" type=" IdentifiedDate " />
    <xsd:choice minOccurs="0">
      <xsd:element name="dateAdjustments" type=" BusinessDayAdjustments " />
      <xsd:element name="dateAdjustmentsReference" type=" BusinessDayAdjustmentsReference " />
    </xsd:choice>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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Complex Type: AdjustableDates

Super-types:	None
Sub-types:	None
Name	AdjustableDates
Used by (from the same schema document)	Complex Type AdjustableDatesOrRelativeDateOffset , Complex Type AdjustableOrRelativeDates , Complex Type AdjustableRelativeOrPeriodicDates , Complex Type AdjustableRelativeOrPeriodicDates2
Abstract	no
Documentation	A type for defining a series of dates that shall be subject to adjustment if they would otherwise fall on a day that is not a business day in the specified business centers, together with the convention for adjusting the dates.

XML Instance Representation

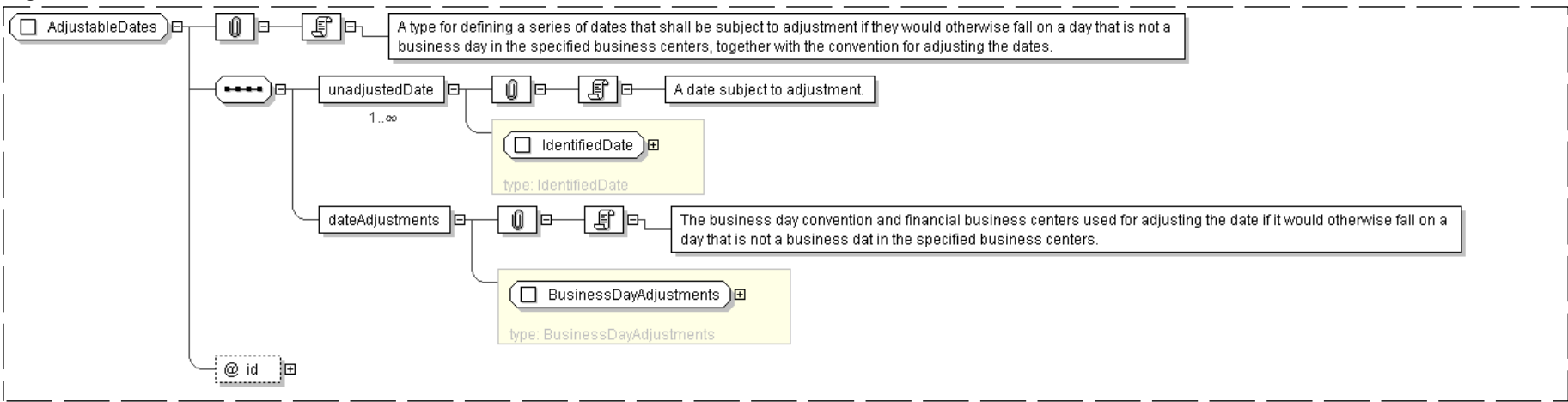
```
<...
  id=" xsd:ID [0..1]">
    <unadjustedDate> IdentifiedDate </unadjustedDate> [1..*]
    'A date subject to adjustment.'

    <dateAdjustments> BusinessDayAdjustments </dateAdjustments> [1]
    'The business day convention and financial business centers used for adjusting the date if
```

it would otherwise fall on a day that is not a business dat in the specified business centers.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableDates">
  <xsd:sequence>
    <xsd:element name="unadjustedDate" type=" IdentifiedDate " maxOccurs="unbounded"/>
    <xsd:element name="dateAdjustments" type=" BusinessDayAdjustments " />
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " use="optional"/>
</xsd:complexType>
```

[top](#)

Complex Type: AdjustableDatesOrRelativeDateOffset

Super-types:	None
Sub-types:	None
Name	AdjustableDatesOrRelativeDateOffset
Abstract	no
Documentation	A type for defining a series of dates, either as a list of adjustable dates, or a as a repeating sequence from a base date

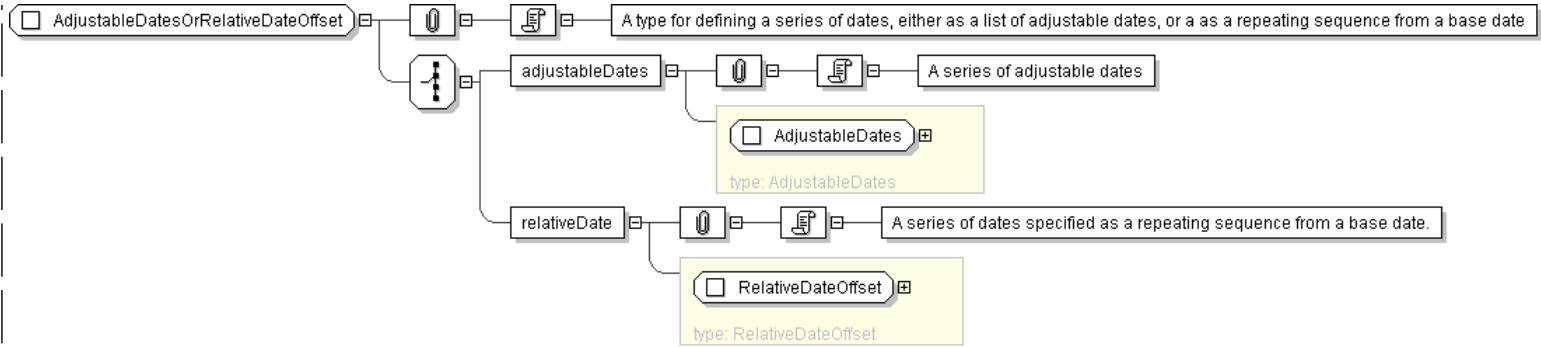
XML Instance Representation

```
<...>
Start Choice [1]
<adjustableDates> AdjustableDates </adjustableDates> [1]
  'A series of adjustable dates'

  <relativeDate> RelativeDateOffset </relativeDate> [1]
  'A series of dates specified as a repeating sequence from a base date.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableDatesOrRelativeDateOffset">
  <xsd:choice>
    <xsd:element name="adjustableDates" type=" AdjustableDates " />
    <xsd:element name="relativeDate" type=" RelativeDateOffset " />
  </xsd:choice>
</xsd:complexType>
```

[top](#)

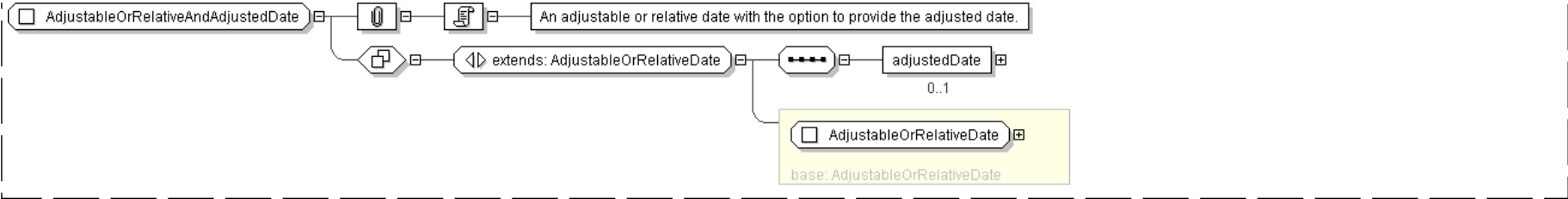
Complex Type: AdjustableOrRelativeAndAdjustedDate

Super-types:	<a href="#">AdjustableOrRelativeDate</a> < <b>AdjustableOrRelativeAndAdjustedDate</b> (by extension)
Sub-types:	None
Name	AdjustableOrRelativeAndAdjustedDate
Used by (from the same schema document)	Complex Type <a href="#">SimplePayment</a>
Abstract	no
Documentation	An adjustable or relative date with the option to provide the adjusted date.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <adjustableDate> AdjustableDate </adjustableDate> [1]
  'A date that shall be subject to adjustment if it would otherwise fall on a day that is not
  a business day in the specified business centers, together with the convention for
  adjusting the date.'
  <relativeDate> RelativeDateOffset </relativeDate> [1]
  'A date specified as some offset to another date (the anchor date).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableOrRelativeAndAdjustedDate">
  <xsd:complexContent>
    <xsd:extension base="AdjustableOrRelativeDate">
      <xsd:sequence>
        <xsd:element name="adjustedDate" type="IdentifiedDate" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: AdjustableOrRelativeDate

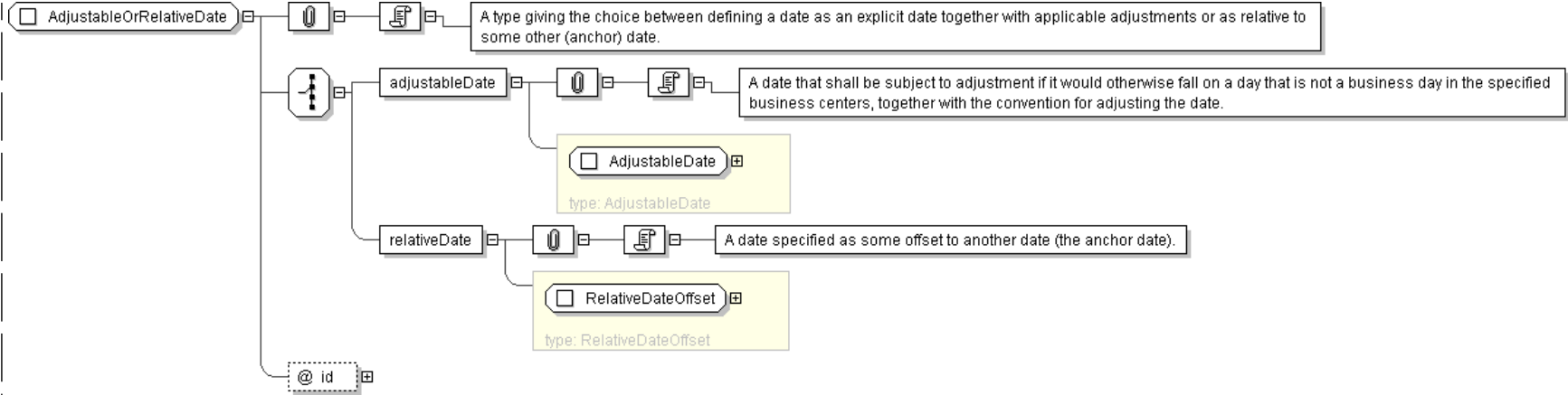
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">AdjustableOrRelativeAndAdjustedDate</a> (by extension)</li></ul>
Name	AdjustableOrRelativeDate
Used by (from the same schema document)	Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">EuropeanExercise</a> , Complex Type <a href="#">PaymentBaseExtended</a> , Complex Type <a href="#">PeriodicDates</a> , Complex Type <a href="#">PeriodicDates</a> , Complex Type <a href="#">SharedAmericanExercise</a> , Complex Type <a href="#">SharedAmericanExercise</a> , Complex Type <a href="#">Stub</a> , Complex Type <a href="#">Stub</a>
Abstract	no
Documentation	A type giving the choice between defining a date as an explicit date together with applicable adjustments or as relative to some other (anchor) date.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  Start Choice [1]
  <adjustableDate> AdjustableDate </adjustableDate> [1]
  'A date that shall be subject to adjustment if it would otherwise fall on a day that is not
  a business day in the specified business centers, together with the convention for
  adjusting the date.'
  <relativeDate> RelativeDateOffset </relativeDate> [1]
  'A date specified as some offset to another date (the anchor date).'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="AdjustableOrRelativeDate">
  <xsd:choice>
    <xsd:element name="adjustableDate" type=" AdjustableDate " />
    <xsd:element name="relativeDate" type=" RelativeDateOffset " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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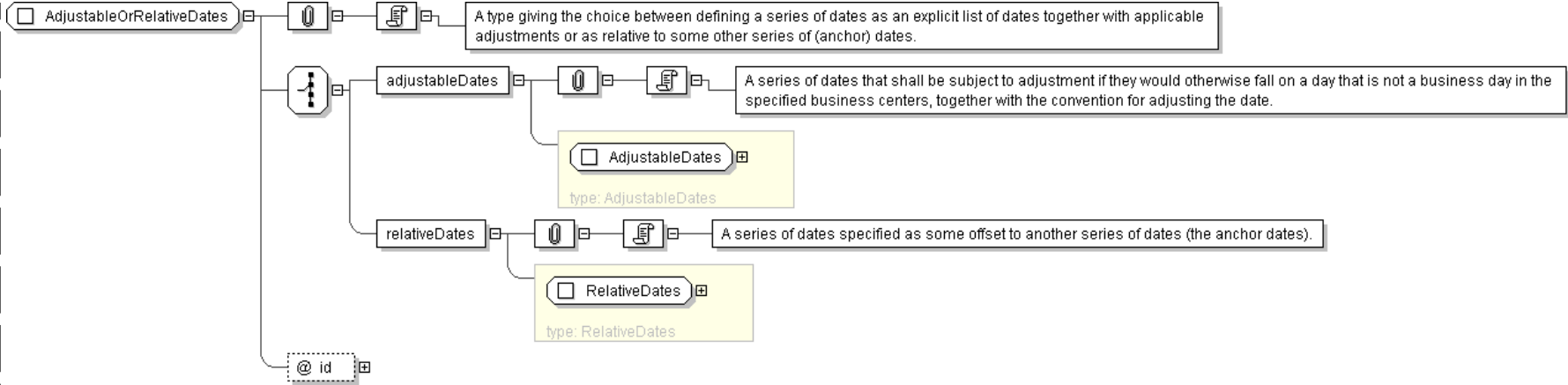
Complex Type: AdjustableOrRelativeDates

Super-types:	None
Sub-types:	None
Name	AdjustableOrRelativeDates
Used by (from the same schema document)	Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">BermudaExercise</a> , Complex Type <a href="#">BermudaExercise</a> , Complex Type <a href="#">EuropeanExercise</a>
Abstract	no
Documentation	A type giving the choice between defining a series of dates as an explicit list of dates together with applicable adjustments or as relative to some other series of (anchor) dates.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  Start Choice [1]
  <adjustableDates> AdjustableDates </adjustableDates> [1]
  'A series of dates that shall be subject to adjustment if they would otherwise fall on a
  day that is not a business day in the specified business centers, together with the
  convention for adjusting the date.'
  <relativeDates> RelativeDates </relativeDates> [1]
  'A series of dates specified as some offset to another series of dates (the anchor dates).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableOrRelativeDates">
  <xsd:choice>
    <xsd:element name="adjustableDates" type=" AdjustableDates " />
    <xsd:element name="relativeDates" type=" RelativeDates " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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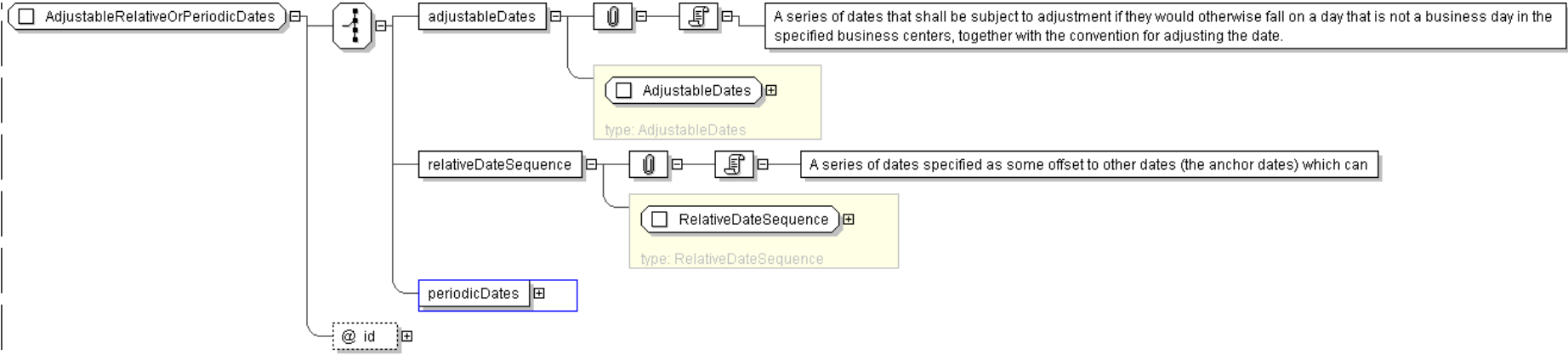
Complex Type: **AdjustableRelativeOrPeriodicDates**

Super-types:	None
Sub-types:	None
Name	AdjustableRelativeOrPeriodicDates
Abstract	no

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <adjustableDates> AdjustableDates </adjustableDates> [1]
  'A series of dates that shall be subject to adjustment if they would otherwise fall on a
  day that is not a business day in the specified business centers, together with the
  convention for adjusting the date.'
  <relativeDateSequence> RelativeDateSequence </relativeDateSequence> [1]
  'A series of dates specified as some offset to other dates (the anchor dates) which can'
  <periodicDates> PeriodicDates </periodicDates> [1]
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableRelativeOrPeriodicDates">
  <xsd:choice>
    <xsd:element name="adjustableDates" type=" AdjustableDates " />
    <xsd:element name="relativeDateSequence" type=" RelativeDateSequence " />
    <xsd:element name="periodicDates" type=" PeriodicDates " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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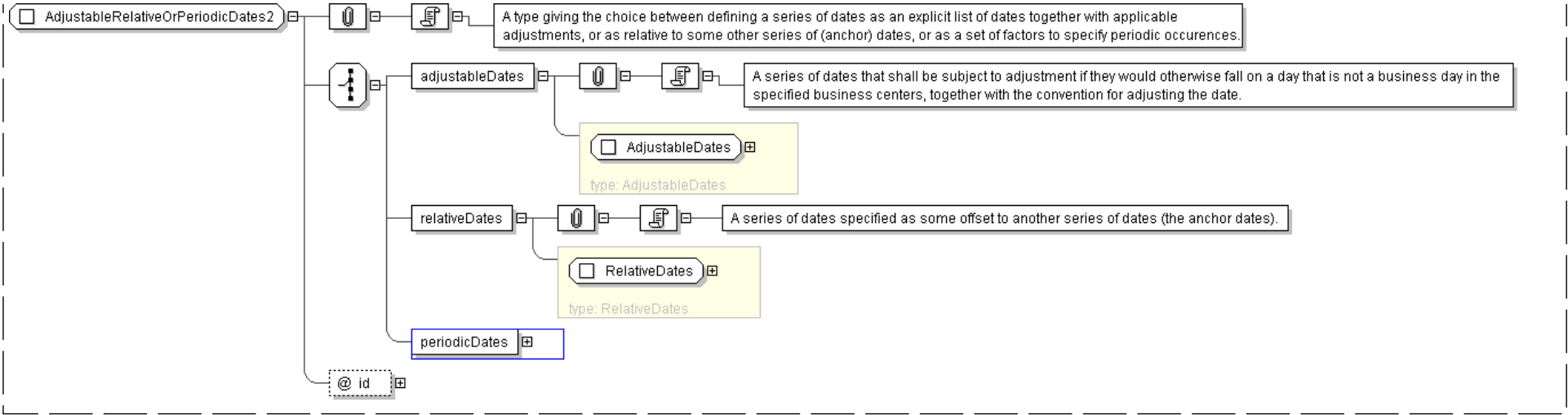
Complex Type: AdjustableRelativeOrPeriodicDates2

Super-types:	None
Sub-types:	None
Name	AdjustableRelativeOrPeriodicDates2
Abstract	no
Documentation	A type giving the choice between defining a series of dates as an explicit list of dates together with applicable adjustments, or as relative to some other series of (anchor) dates, or as a set of factors to specify periodic occurrences.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
Start Choice [1]
  <adjustableDates> AdjustableDates </adjustableDates> [1]
  'A series of dates that shall be subject to adjustment if they would otherwise fall on a
  day that is not a business day in the specified business centers, together with the
  convention for adjusting the date.'
  <relativeDates> RelativeDates </relativeDates> [1]
  'A series of dates specified as some offset to another series of dates (the anchor dates).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustableRelativeOrPeriodicDates2">
  <xsd:choice>
    <xsd:element name="adjustableDates" type=" AdjustableDates " />
    <xsd:element name="relativeDates" type=" RelativeDates " />
    <xsd:element name="periodicDates" type=" PeriodicDates " />
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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Complex Type: **AdjustedRelativeDateOffset**

Super-types:	<a href="#">Period</a> < <a href="#">Offset</a> (by extension) < <a href="#">RelativeDateOffset</a> (by extension) < <b>AdjustedRelativeDateOffset</b> (by extension)
Sub-types:	None

Name	AdjustedRelativeDateOffset
Abstract	no
Documentation	A type defining a date (referred to as the derived date) as a relative offset from another date (referred to as the anchor date) plus optional date adjustments.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <periodMultiplier> xsd:integer </periodMultiplier> [1]
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying
  an offset relative to another date, e.g. -2 days.'

  <period> PeriodEnum </period> [1]
  'A time period, e.g. a day, week, month or year of the stream. If the periodMultiplier value
  is 0 (zero) then period must contain the value D (day).'DayTypeEnum </dayType> [0..1]
  'In the case of an offset specified as a number of days, this element defines
  whether consideration is given as to whether a day is a good business day or not. If a day
  type of business days is specified then non-business days are ignored when calculating
  the offset. The financial business centers to use for determination of business days
  are implied by the context in which this element is used. This element must only be
  included when the offset is specified as a number of days. If the offset is zero days then
  the dayType element should not be included.'
```

```
<businessDayConvention> BusinessDayConventionEnum </businessDayConvention> [1]
'The convention for adjusting a date if it would otherwise fall on a day that is not a
business day.'
```

Start Group: BusinessCentersOrReference.model [0..1]

Start Choice [1]

```
<businessCentersReference> BusinessCentersReference </businessCentersReference> [1]
'A pointer style reference to a set of financial business centers defined elsewhere in
the document. This set of business centers is used to determine whether a particular day is
a business day or not.'
```

```
<businessCenters> BusinessCenters </businessCenters> [1]
```

End Choice

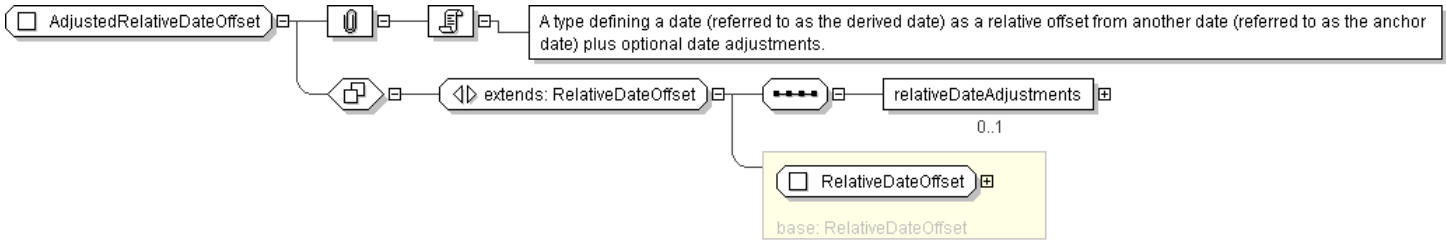
End Group: BusinessCentersOrReference.model

```
<dateRelativeTo> DateReference </dateRelativeTo> [1]
'Specifies the anchor as an href attribute. The href attribute value is a pointer
style reference to the element or component elsewhere in the document where the anchor date
is defined.'
```

```
<relativeDateAdjustments> BusinessDayAdjustments </relativeDateAdjustments> [0..1]
'The business day convention and financial business centers used for adjusting the
relative date if it would otherwise fall on a day that is not a business date in the
specified business centers.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AdjustedRelativeDateOffset">
  <xsd:complexContent>
    <xsd:extension base=" RelativeDateOffset " />
    <xsd:sequence>
      <xsd:element name="relativeDateAdjustments" type=" BusinessDayAdjustments " minOccurs="0"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **AmericanExercise**

Super-types:	<a href="#">Exercise</a> < <b>AmericanExercise</b> (by extension)
Sub-types:	None

Name	AmericanExercise
Used by (from the same schema document)	Element <a href="#">americanExercise</a>
Abstract	no

Documentation	A type defining the exercise period for an American style option together with any rules governing the notional amount of the underlying which can be exercised on any given exercise date and any associated exercise fees.
---------------	--

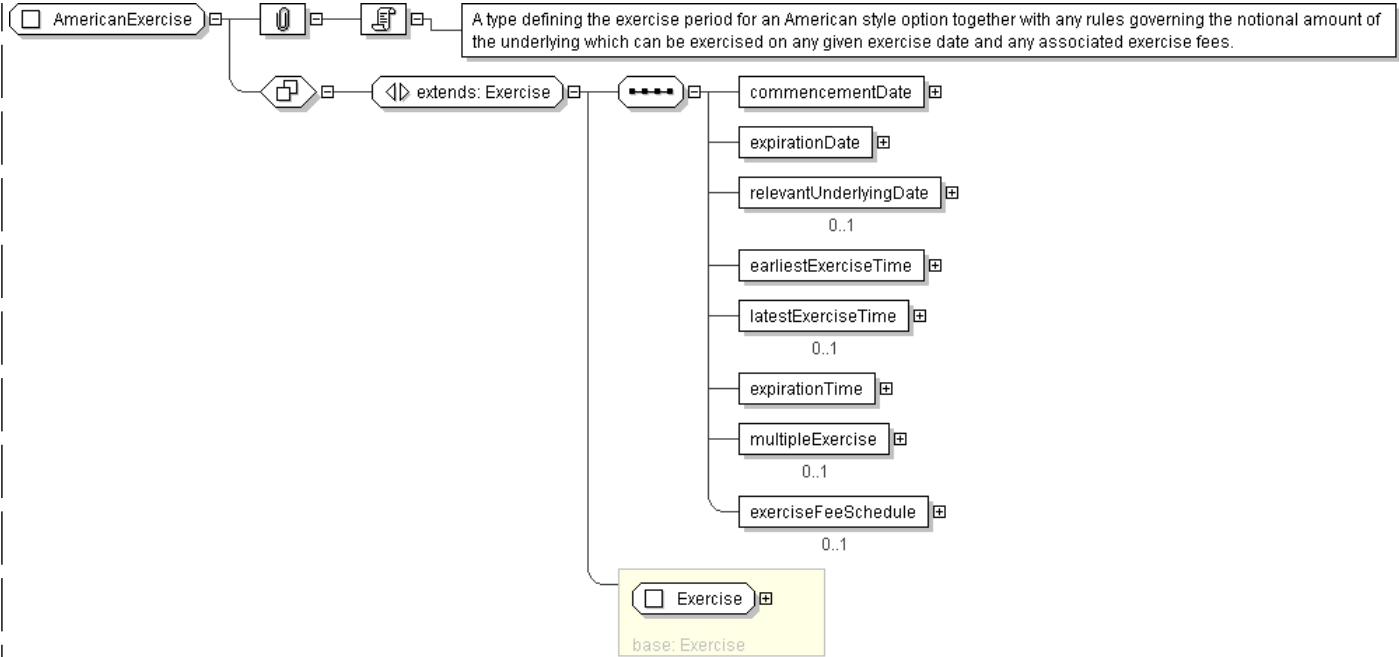
XML Instance Representation

```
<...
  id=" xsd:ID [0..1]">
    <commencementDate> AdjustableOrRelativeDate </commencementDate> [1]
    'The first day of the exercise period for an American style option.'

    <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
    'The last day within an exercise period for an American style option. For a European
    style option it is the only day within the exercise period.'

    <relevantUnderlyingDate> AdjustableOrRelativeDates </relevantUnderlyingDate> [0..1]
    'The days on the underlying set by the exercise of an option. What this date is depends on
    the option (e.g. in a swaption it is the effective date, in an extendible/cancelable
    provision it is the termination date).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AmericanExercise">
  <xsd:complexContent>
    <xsd:extension base=" Exercise " >
      <xsd:sequence>
        <xsd:element name="commencementDate" type=" AdjustableOrRelativeDate " />
        <xsd:element name="expirationDate" type=" AdjustableOrRelativeDate " />
        <xsd:element name="relevantUnderlyingDate" type=" AdjustableOrRelativeDates " minOccurs="0"/>
        <xsd:element name="earliestExerciseTime" type=" BusinessCenterTime " />
        <xsd:element name="latestExerciseTime" type=" BusinessCenterTime " minOccurs="0"/>
        <xsd:element name="expirationTime" type=" BusinessCenterTime " />
        <xsd:element name="multipleExercise" type=" MultipleExercise " minOccurs="0"/>
        <xsd:element name="exerciseFeeSchedule" type=" ExerciseFeeSchedule " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: AmountReference

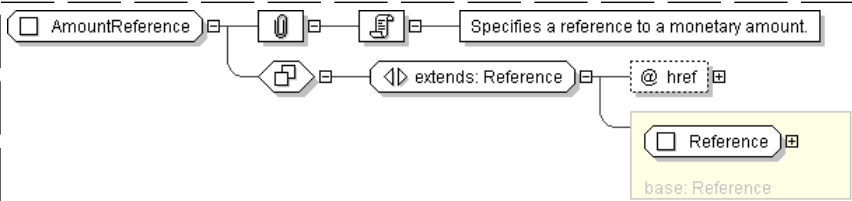
Super-types:	<a href="#">Reference</a> < <b>AmountReference</b> (by extension)
Sub-types:	None

Name	AmountReference
Abstract	no
Documentation	Specifies a reference to a monetary amount.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AmountReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" />
    <xsd:attribute name="href" type="xsd:IDREF" use="required"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Complex Type: AmountSchedule

Super-types:	<a href="#">Schedule</a> < <b>AmountSchedule</b> (by extension)
Sub-types:	None
Name	AmountSchedule
Used by (from the same schema document)	Complex Type <a href="#">ExerciseFeeSchedule</a>
Abstract	no
Documentation	A type defining a currency amount or a currency amount schedule.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <initialValue> xsd:decimal </initialValue> [1]
  'The initial rate or amount, as the case may be. An initial rate of 5% would be represented
  as 0.05.'

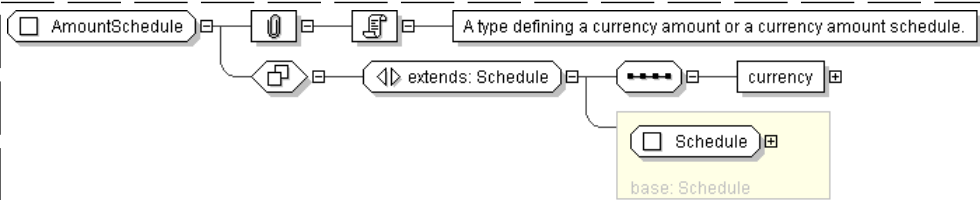
  <step> Step </step> [0..*]

  'The schedule of step date and value pairs. On each step date the associated step value
  becomes effective A list of steps may be ordered in the document by ascending step date.
  An FpML document containing an unordered list of steps is still regarded as a
  conformant document.'

  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

</...>
```

Diagram





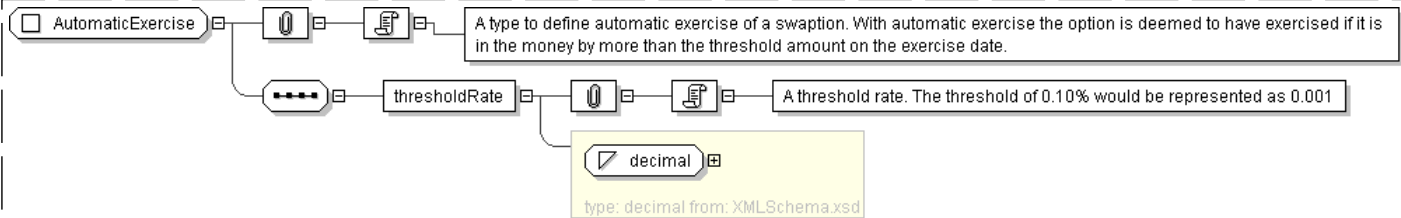
Complex Type: **AutomaticExercise**

Super-types:	None
Sub-types:	None
Name	AutomaticExercise
Used by (from the same schema document)	Complex Type <a href="#">ExerciseProcedure</a>
Abstract	no
Documentation	A type to define automatic exercise of a swaption. With automatic exercise the option is deemed to have exercised if it is in the money by more than the threshold amount on the exercise date.

XML Instance Representation

```
<...>
  <thresholdRate xsd:decimal />thresholdRate [1]
  'A threshold rate. The threshold of 0.10% would be represented as 0.001'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AutomaticExercise">
  <xsd:sequence>
    <xsd:element name="thresholdRate" type="xsd:decimal"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **AverageDailyTradingVolumeLimit**

Super-types:	None
Sub-types:	None
Name	AverageDailyTradingVolumeLimit
Abstract	no

**Documentation** To indicate the limitation percentage and limitation period.

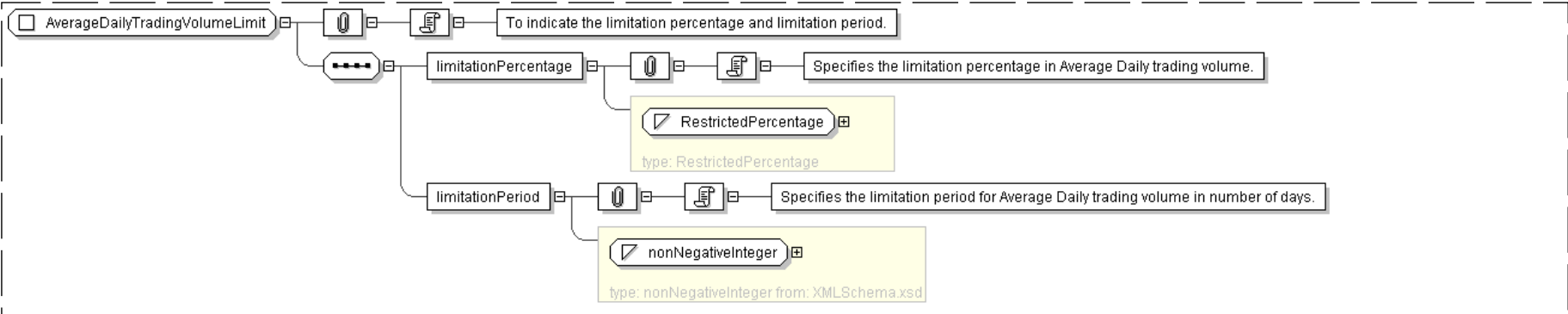
XML Instance Representation

```
<...>
  <limitationPercentage> RestrictedPercentage </limitationPercentage> [1]
  'Specifies the limitation percentage in Average Daily trading volume.'

  <limitationPeriod> xsd:nonNegativeInteger </limitationPeriod> [1]
  'Specifies the limitation period for Average Daily trading volume in number of days.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="AverageDailyTradingVolumeLimit">
  <xsd:sequence>
    <xsd:element name="limitationPercentage" type=" RestrictedPercentage "/>
    <xsd:element name="limitationPeriod" type=" xsd:nonNegativeInteger "/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **Beneficiary**

Super-types:	None
Sub-types:	None

Name	Beneficiary
Used by (from the same schema document)	Complex Type <a href="#">SettlementInstruction</a> , Complex Type <a href="#">SettlementInstruction</a>
Abstract	no
Documentation	A type defining the beneficiary of the funds.

XML Instance Representation

```
<...>
Start Choice [1]
  <routingIds> RoutingIds </routingIds> [1]
  'A set of unique identifiers for a party, eachone identifying the party within a
  payment system. The assumption is that each party will not have more than one identifier
  within the same payment system.'

  <routingExplicitDetails> RoutingExplicitDetails </routingExplicitDetails> [1]
  'A set of details that is used to identify a party involved in the routing of a payment
  when the party does not have a code that identifies it within one of the recognized
```

```
payment systems.'
```

```
<routingIdsAndExplicitDetails> RoutingIdsAndExplicitDetails </routingIdsAndExplicitDetails> [1]
```

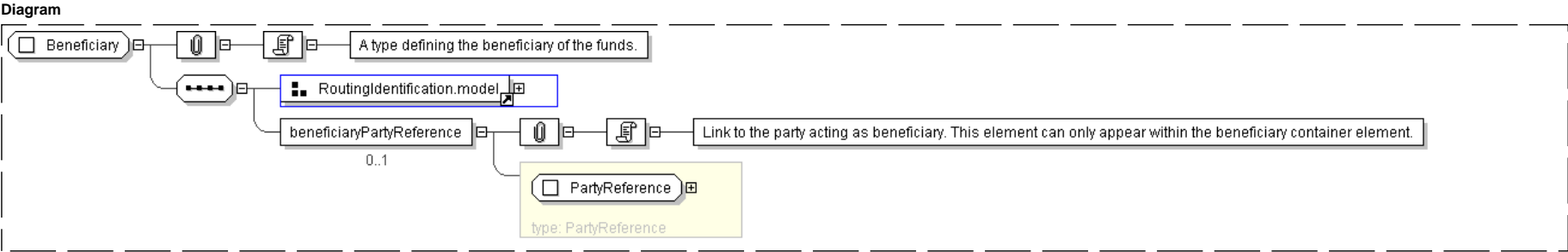
```
'A combination of coded payment system identifiers and details for physical addressing for  
a party involved in the routing of a payment.'
```

End Choice

```
<beneficiaryPartyReference> PartyReference </beneficiaryPartyReference> [0..1]
```

```
'Link to the party acting as beneficiary. This element can only appear within the  
beneficiary container element.'
```

```
</...>
```



Schema Component Representation

```
<xsd:complexType name="Beneficiary">  
  <xsd:sequence>  
    <xsd:group ref=" RoutingIdentification.model "/>  
    <xsd:element name="beneficiaryPartyReference" type=" PartyReference " minOccurs="0"/>  
  </xsd:sequence>  
</xsd:complexType>
```

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Complex Type: **BermudaExercise**

Super-types:	<a href="#">Exercise</a> < <b>BermudaExercise</b> (by extension)
Sub-types:	None

Name	BermudaExercise
Used by (from the same schema document)	Element <a href="#">bermudaExercise</a>
Abstract	no
Documentation	A type defining the Bermuda option exercise dates and the expiration date together with any rules governing the notional amount of the underlying which can be exercised on any given exercise date and any associated exercise fee.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <bermudaExerciseDates> AdjustableOrRelativeDates </bermudaExerciseDates> [1]  
  
  'The dates the define the Bermuda option exercise dates and the expiration date. The  
  last specified date is assumed to be the expiration date. The dates can either be specified  
  as a series of explicit dates and associated adjustments or as a series of dates  
  defined relative to another schedule of dates, for example, the calculation period start  
  dates. Where a relative series of dates are defined the first and last possible exercise  
  dates can be separately specified.'  
  
  <relevantUnderlyingDate> AdjustableOrRelativeDates </relevantUnderlyingDate> [0..1]  
  
  'The day on the underlying set by the exercise of an option. What this date is depends on  
  the option (e.g. in a swaption it is the effective date, in an extendible/cancelable
```

provision it is the termination date).'

**<earliestExerciseTime>** *BusinessCenterTime* **</earliestExerciseTime>** [1]

'The earliest time at which notice of exercise can be given by the buyer to the seller (or seller\'s agent) i) on the expiration date, in the case of a European style option, (ii) on each bermuda option exercise date and the expiration date, in the case of a Bermuda style option the commencement date to, and including, the expiration date , in the case of an American option.'

**<latestExerciseTime>** *BusinessCenterTime* **</latestExerciseTime>** [0..1]

'For a Bermuda or American style option, the latest time on an exercise business day (excluding the expiration date) within the exercise period that notice can be given by the buyer to the seller or seller\'s agent. Notice of exercise given after this time will be deemed to have been given on the next exercise business day.'

**<expirationTime>** *BusinessCenterTime* **</expirationTime>** [1]

'The latest time for exercise on expirationDate.'

**<multipleExercise>** *MultipleExercise* **</multipleExercise>** [0..1]

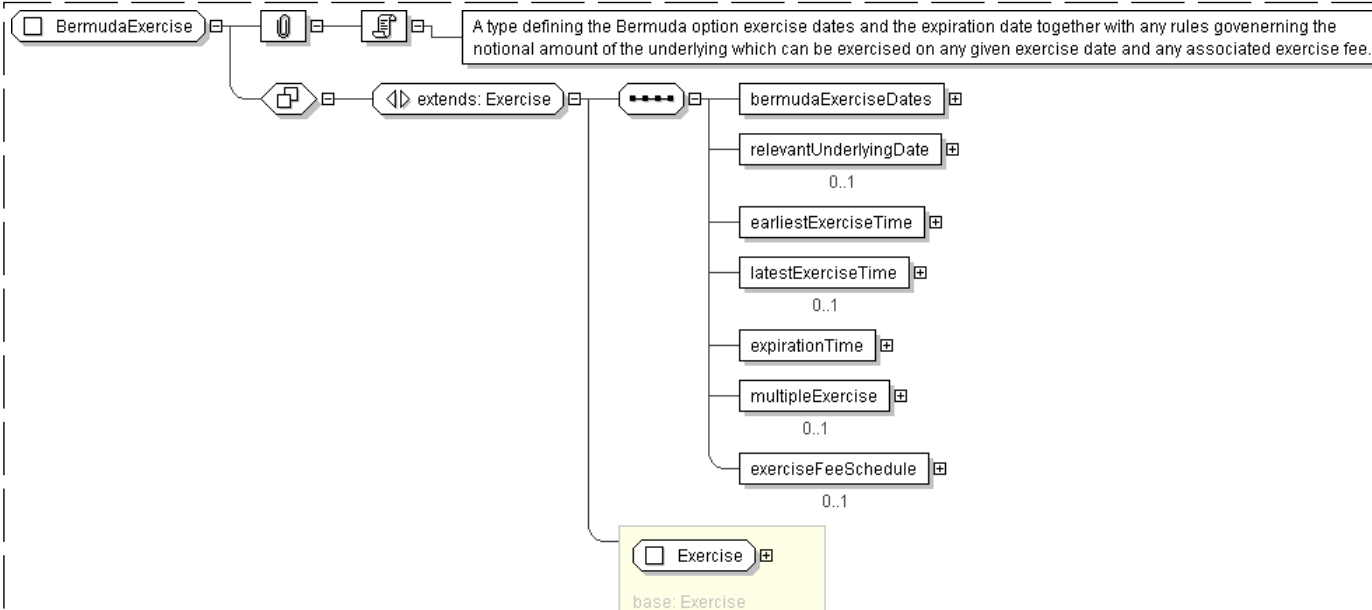
'As defined in the 2000 ISDA Definitions, Section 12.4. Multiple Exercise, the buyer of the option has the right to exercise all or less than all the unexercised notional amount of the underlying swap on one or more days in the exercise period, but on any such day may not exercise less than the minimum notional amount or more than the maximum notional amount, and if an integral multiple amount is specified, the notional amount exercised must be equal to, or be an intergral multiple of, the integral multiple amount.'

**<exerciseFeeSchedule>** *ExerciseFeeSchedule* **</exerciseFeeSchedule>** [0..1]

'The fees associated with an exercise date. The fees are conditional on the exercise occuring. The fees can be specified as actual currency amounts or as percentages of the notional amount being exercised.'

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="BermudaExercise">
  <xsd:complexContent>

```

```
<xsd:extension base=" Exercise ">
  <xsd:sequence>
    <xsd:element name="bermudaExerciseDates" type=" AdjustableOrRelativeDates "/>
    <xsd:element name="relevantUnderlyingDate" type=" AdjustableOrRelativeDates " minOccurs="0"/>
    <xsd:element name="earliestExerciseTime" type=" BusinessCenterTime "/>
    <xsd:element name="latestExerciseTime" type=" BusinessCenterTime " minOccurs="0"/>
    <xsd:element name="expirationTime" type=" BusinessCenterTime "/>
    <xsd:element name="multipleExercise" type=" MultipleExercise " minOccurs="0"/>
    <xsd:element name="exerciseFeesSchedule" type=" ExerciseFeesSchedule " minOccurs="0"/>
  </xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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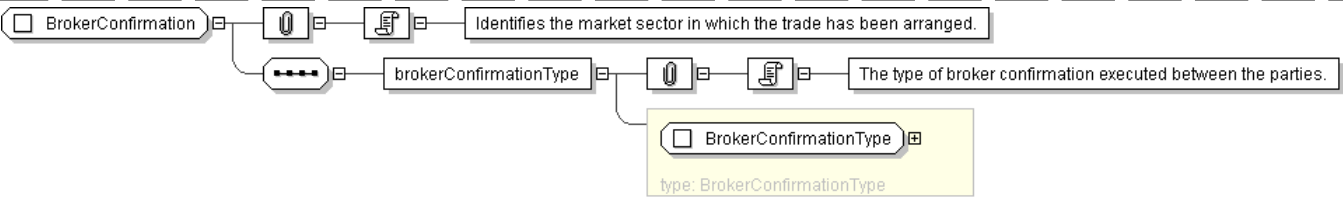
Complex Type: **BrokerConfirmation**

Super-types:	None
Sub-types:	None
Name	BrokerConfirmation
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	Identifies the market sector in which the trade has been arranged.

XML Instance Representation

```
<...>
<brokerConfirmationType> BrokerConfirmationType </brokerConfirmationType> [1]
  'The type of broker confirmation executed between the parties.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BrokerConfirmation">
  <xsd:sequence>
    <xsd:element name="brokerConfirmationType" type=" BrokerConfirmationType "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **BrokerConfirmationType**

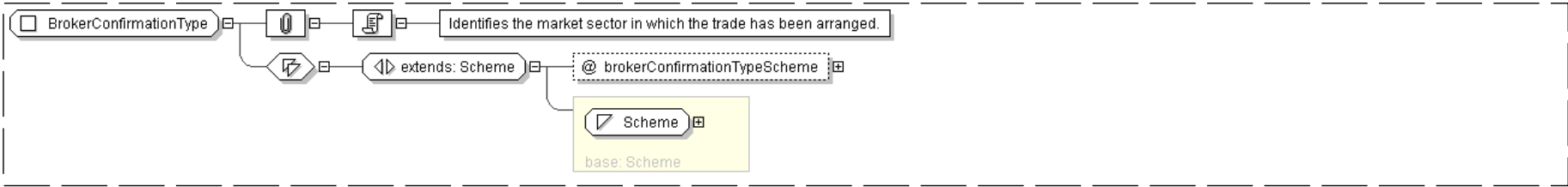
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>BrokerConfirmationType</b> (by extension)
Sub-types:	None
Name	BrokerConfirmationType

Used by (from the same schema document)	Complex Type <a href="#">BrokerConfirmation</a>
Abstract	no
Documentation	Identifies the market sector in which the trade has been arranged.

XML Instance Representation

```
<...  
brokerConfirmationTypeScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BrokerConfirmationType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="brokerConfirmationTypeScheme" type=" xsd:anyURI " default="http://www.  
        fpml.org/coding-scheme/broker-confirmation-type"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **BusinessCenter**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>BusinessCenter</b> (by extension)
Sub-types:	None

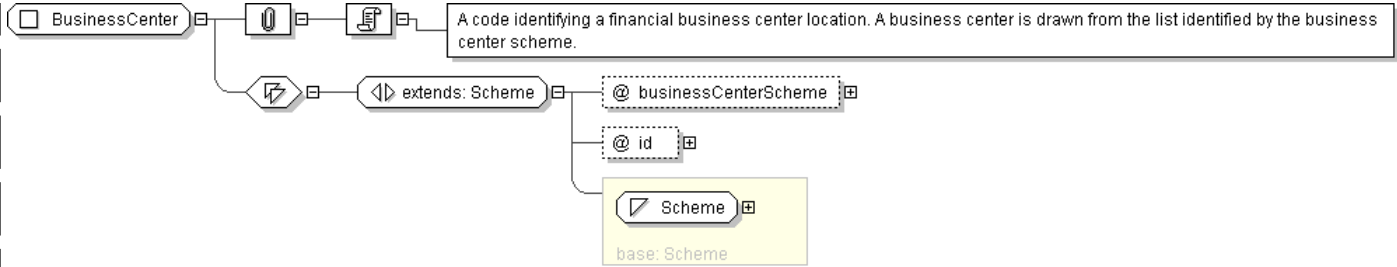
Name	BusinessCenter
Used by (from the same schema document)	Complex Type <a href="#">BusinessCenters</a> , Complex Type <a href="#">BusinessCenterTime</a> , Complex Type <a href="#">ExerciseNotice</a>
Abstract	no
Documentation	A code identifying a financial business center location. A business center is drawn from the list identified by the business center scheme.

XML Instance Representation

```
<...  
businessCenterScheme=" xsd:anyURI [0..1]"  
id=" xsd:ID [0..1]">  
  Scheme  
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="BusinessCenter">
  <xsd:simpleContent>
    <xsd:extension base=" Schema " >
      <xsd:attribute name="businessCenterScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/business-center"/>
      <xsd:attribute name="id" type=" xsd:ID " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **BusinessCenterTime**

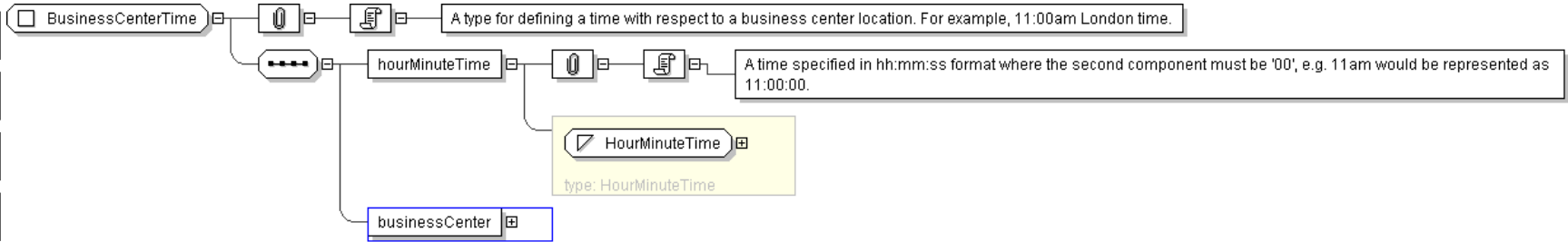
Super-types:	None
Sub-types:	None

Name	BusinessCenterTime
Used by (from the same schema document)	Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">BermudaExercise</a> , Complex Type <a href="#">BermudaExercise</a> , Complex Type <a href="#">BermudaExercise</a> , Complex Type <a href="#">EuropeanExercise</a> , Complex Type <a href="#">EuropeanExercise</a> , Complex Type <a href="#">FxSpotRateSource</a> , Complex Type <a href="#">SharedAmericanExercise</a>
Abstract	no
Documentation	A type for defining a time with respect to a business center location. For example, 11:00am London time.

XML Instance Representation

```
<...>
<hourMinuteTime> HourMinuteTime </hourMinuteTime> [1]
'A time specified in hh:mm:ss format where the second component must be \'00\' , e.g. 11am
would be represented as 11:00:00.'
<businessCenter> BusinessCenter </businessCenter> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BusinessCenterTime">
  <xsd:sequence>
    <xsd:element name="hourMinuteTime" type="HourMinuteTime" />
    <xsd:element name="businessCenter" type="BusinessCenter" />
  </xsd:sequence>
</xsd:complexType>
```

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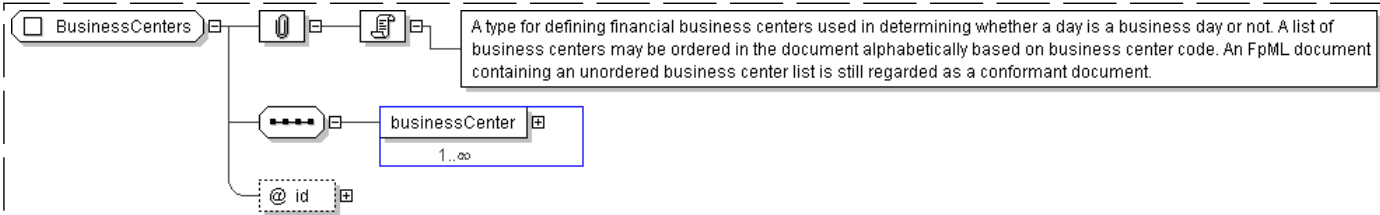
Complex Type: **BusinessCenters**

Super-types:	None
Sub-types:	None
Name	BusinessCenters
Used by (from the same schema document)	Model Group <a href="#">BusinessCentersOrReference.model</a>
Abstract	no
Documentation	A type for defining financial business centers used in determining whether a day is a business day or not. A list of business centers may be ordered in the document alphabetically based on business center code. An FpML document containing an unordered business center list is still regarded as a conformant document.

XML Instance Representation

```
<...
id="  xsd:ID [0..1]">
  <businessCenter> BusinessCenter </businessCenter> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BusinessCenters">
  <xsd:sequence>
    <xsd:element name="businessCenter" type="BusinessCenter" maxOccurs="unbounded" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **BusinessCentersReference**

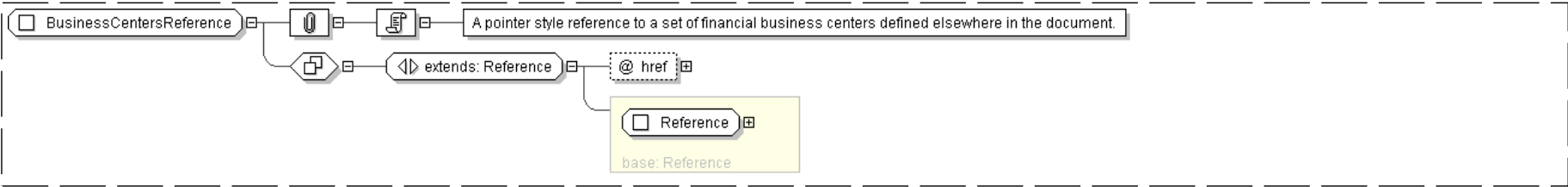
Super-types:	<a href="#">Reference</a> < <b>BusinessCentersReference</b> (by extension)
Sub-types:	None
Name	BusinessCentersReference
Used by (from the same schema document)	Model Group <a href="#">BusinessCentersOrReference.model</a>
Abstract	no
Documentation	A pointer style reference to a set of financial business centers defined elsewhere in the document.



XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]"/>  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BusinessCentersReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference" >  
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="BusinessCenters"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

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Complex Type: BusinessDateRange

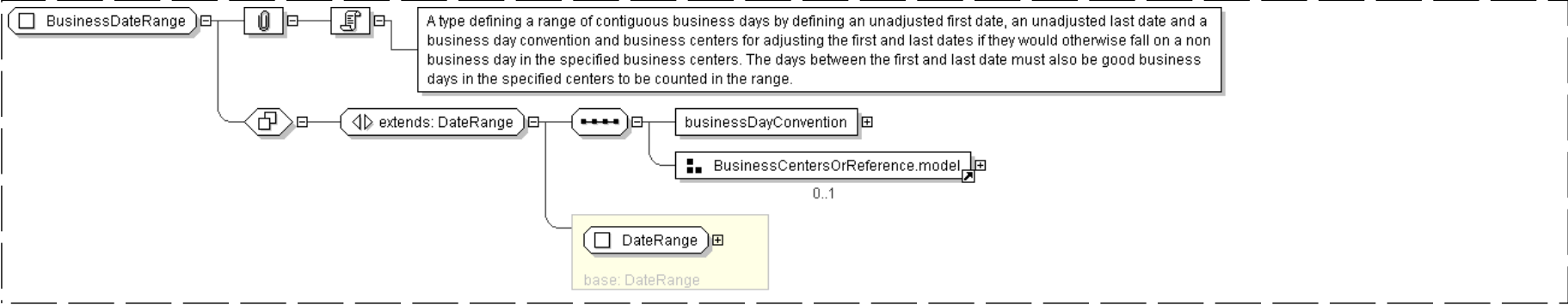
Super-types:	<a href="#">DateRange</a> < <b>BusinessDateRange</b> (by extension)
Sub-types:	None

Name	BusinessDateRange
Abstract	no
Documentation	A type defining a range of contiguous business days by defining an unadjusted first date, an unadjusted last date and a business day convention and business centers for adjusting the first and last dates if they would otherwise fall on a non business day in the specified business centers. The days between the first and last date must also be good business days in the specified centers to be counted in the range.

XML Instance Representation

```
<...>  
  <unadjustedFirstDate> xsd:date </unadjustedFirstDate> [1]  
  'The first date of a date range.'  
  
  <unadjustedLastDate> xsd:date </unadjustedLastDate> [1]  
  'The last date of a date range.'  
  
  <businessDayConvention> BusinessDayConventionEnum </businessDayConvention> [1]  
  'The convention for adjusting a date if it would otherwise fall on a day that is not a  
  business day.'  
  
  Start Group: BusinessCentersOrReference.model [0..1]  
  Start Choice [1]  
    <businessCentersReference> BusinessCentersReference </businessCentersReference> [1]  
    'A pointer style reference to a set of financial business centers defined elsewhere in  
    the document. This set of business centers is used to determine whether a particular day is  
    a business day or not.'  
  
    <businessCenters> BusinessCenters </businessCenters> [1]  
  End Choice  
End Group: BusinessCentersOrReference.model  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BusinessDateRange">
  <xsd:complexContent>
    <xsd:extension base="DateRange">
      <xsd:sequence>
        <xsd:element name="businessDayConvention" type="BusinessDayConventionEnum"/>
        <xsd:group ref="BusinessCentersOrReference.model" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: BusinessDayAdjustments

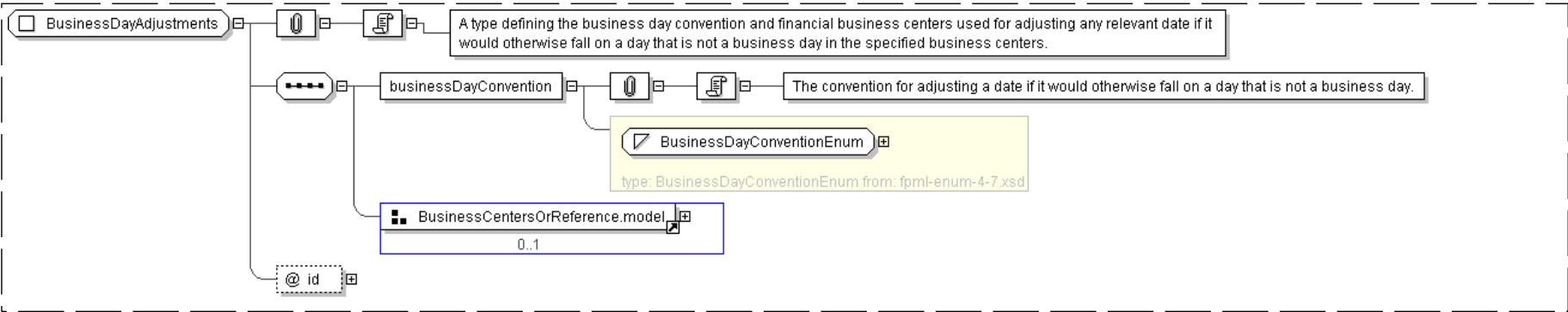
Super-types:	None
Sub-types:	None
Name	BusinessDayAdjustments
Used by (from the same schema document)	Complex Type <a href="#">AdjustableDate</a> , Complex Type <a href="#">AdjustableDate2</a> , Complex Type <a href="#">AdjustableDates</a> , Complex Type <a href="#">AdjustedRelativeDateOffset</a> , Complex Type <a href="#">PeriodicDates</a>
Abstract	no
Documentation	A type defining the business day convention and financial business centers used for adjusting any relevant date if it would otherwise fall on a day that is not a business day in the specified business centers.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <businessDayConvention> BusinessDayConventionEnum </businessDayConvention> [1]

  'The convention for adjusting a date if it would otherwise fall on a day that is not a
  business day.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BusinessDayAdjustments">
  <xsd:sequence>
    <xsd:element name="businessDayConvention" type="BusinessDayConventionEnum" />
    <xsd:group ref="BusinessCentersOrReference.model" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

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Complex Type: **BusinessDayAdjustmentsReference**

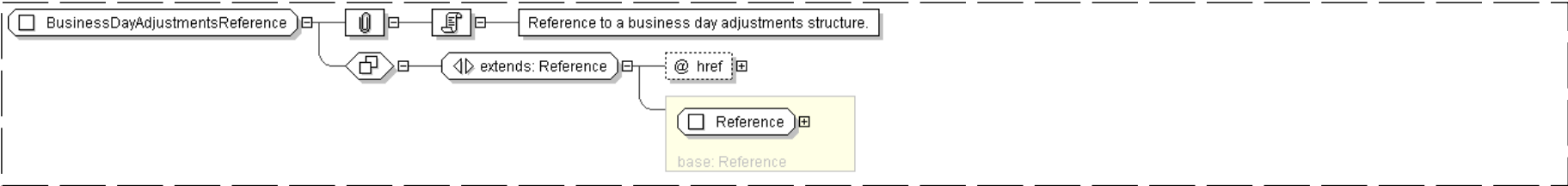
Super-types:	<a href="#">Reference</a> < <b>BusinessDayAdjustmentsReference</b> (by extension)
Sub-types:	None

Name	BusinessDayAdjustmentsReference
Used by (from the same schema document)	Complex Type <a href="#">AdjustableDate2</a>
Abstract	no
Documentation	Reference to a business day adjustments structure.

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="BusinessDayAdjustmentsReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required"
        reference="BusinessDayAdjustments"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **CalculationAgent**

Super-types:	None
Sub-types:	None
Name	CalculationAgent
Abstract	no
Documentation	A type defining the ISDA calculation agent responsible for performing duties as defined in the applicable product definitions.

XML Instance Representation

<...>

Start Choice [1]

<calculationAgentPartyReference> PartyReference </calculationAgentPartyReference> [1..\*]

'A pointer style reference to a party identifier defined elsewhere in the document. The party referenced is the ISDA Calculation Agent for the trade. If more than one party is referenced then the parties are assumed to be co-calculation agents, i.e. they have joint responsibility.'

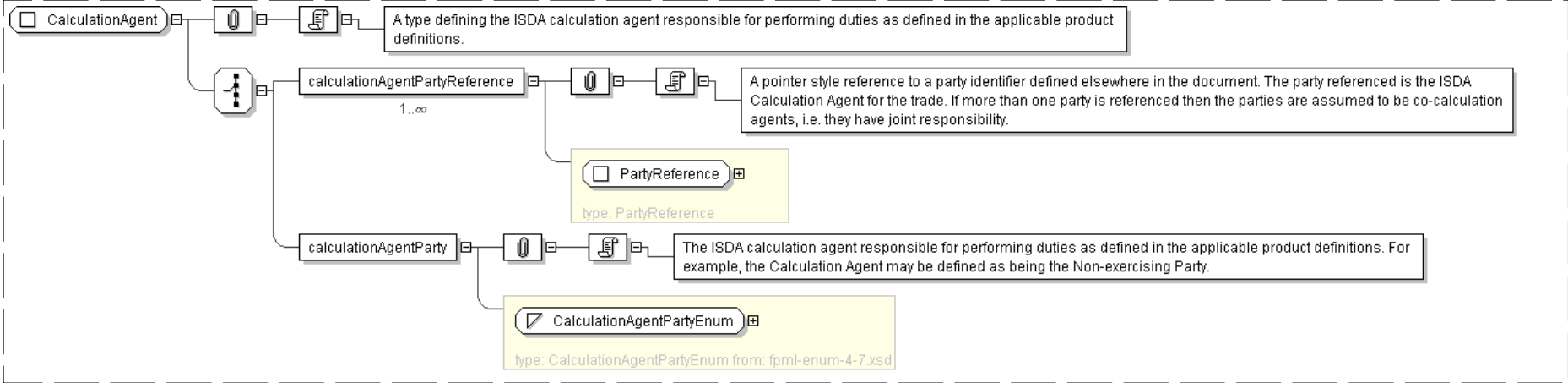
<calculationAgentParty> CalculationAgentPartyEnum </calculationAgentParty> [1]

'The ISDA calculation agent responsible for performing duties as defined in the applicable product definitions. For example, the Calculation Agent may be defined as being the Non-exercising Party.'

End Choice

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationAgent">
  <xsd:choice>
    <xsd:element name="calculationAgentPartyReference" type=" PartyReference
      " maxOccurs="unbounded"/>
    <xsd:element name="calculationAgentParty" type=" CalculationAgentPartyEnum
      "/>
  </xsd:choice>
</xsd:complexType>
```

Complex Type: CalculationPeriodFrequency

Super-types:	<a href="#">Frequency</a> < <b>CalculationPeriodFrequency</b> (by extension)
Sub-types:	None

Name	CalculationPeriodFrequency
Used by (from the same schema document)	Complex Type <a href="#">PeriodicDates</a>
Abstract	no
Documentation	A type defining the frequency at which calculation period end dates occur within the regular part of the calculation period schedule and thier roll date convention. In case the calculation frequency is of value T (term), the period is defined by the swap\swapStream\calculationPerioDates\effectiveDate and the swap\swapStream\calculationPerioDates\terminationDate.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <periodMultiplier> xsd:integer </periodMultiplier> [1]

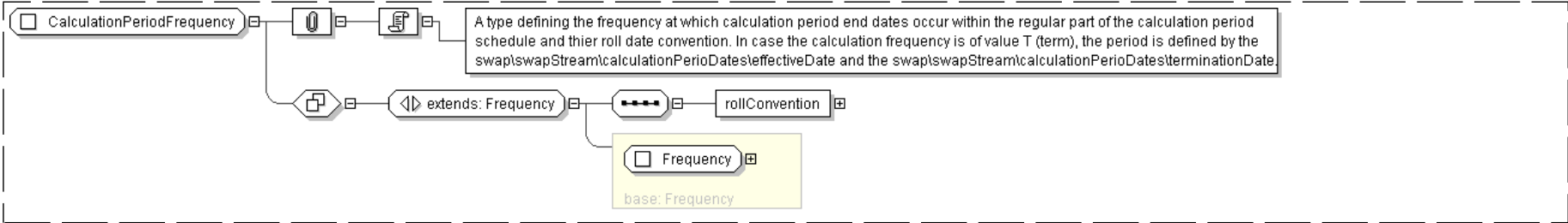
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying
  an offset relative to another date, e.g. -2 days. If the period value is T (Term)
  then periodMultiplier must contain the value 1.'

  <period> PeriodExtendedEnum </period> [1]

  'A time period, e.g. a day, week, month, year or term of the stream. If the
  periodMultiplier value is 0 (zero) then period must contain the value D (day).'RollConventionEnum </rollConvention> [1]

  'Used in conjunction with a frequency and the regular period start date of a
  calculation period, determines each calculation period end date within the regular part of
  a calculation period schedule.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CalculationPeriodFrequency">
  <xsd:complexContent>
    <xsd:extension base="Frequency" />
    <xsd:sequence>
      <xsd:element name="rollConvention" type="RollConventionEnum" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: CashSettlementReferenceBanks

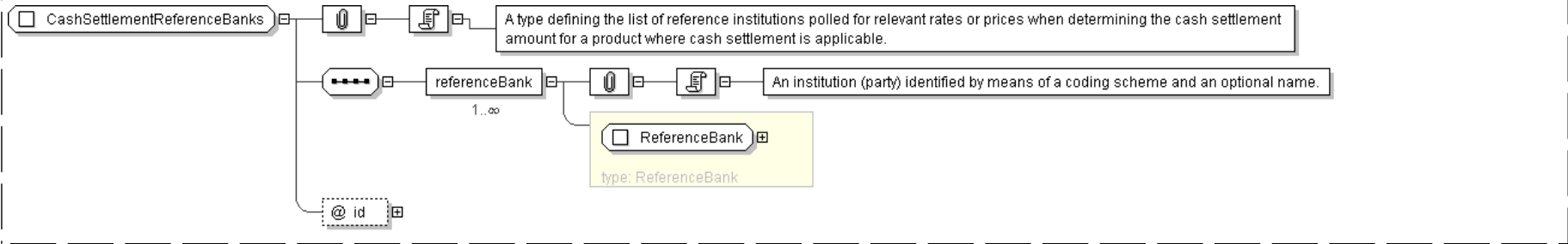
Super-types:	None
--------------	------

Sub-types:	None
Name	CashSettlementReferenceBanks
Used by (from the same schema document)	Complex Type <a href="#">SettlementRateSource</a>
Abstract	no
Documentation	A type defining the list of reference institutions polled for relevant rates or prices when determining the cash settlement amount for a product where cash settlement is applicable.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <referenceBank> ReferenceBank </referenceBank> [1..*]  
    'An institution (party) identified by means of a coding scheme and an optional name.'  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CashSettlementReferenceBanks">  
  <xsd:sequence>  
    <xsd:element name="referenceBank" type=" ReferenceBank " maxOccurs="unbounded"/>  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID "/>  
</xsd:complexType>
```

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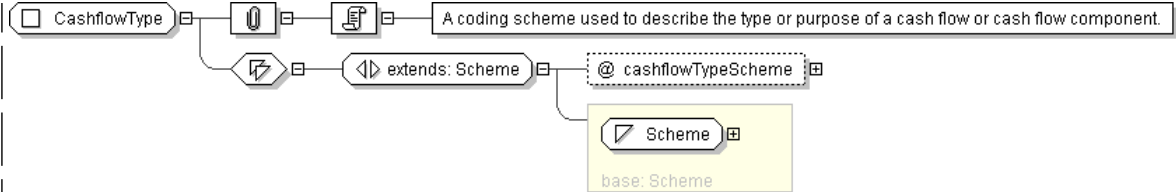
Complex Type: **CashflowType**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>CashflowType</b> (by extension)
Sub-types:	None
Name	CashflowType
Abstract	no
Documentation	A coding scheme used to describe the type or purpose of a cash flow or cash flow component.

XML Instance Representation

```
<...  
  cashflowTypeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CashflowType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="cashflowTypeScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/cashflow-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: ClearanceSystem

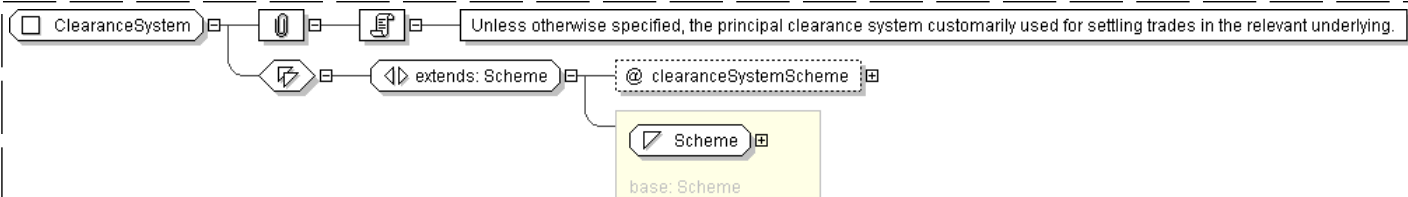
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ClearanceSystem</b> (by extension)
Sub-types:	None

Name	ClearanceSystem
Abstract	no
Documentation	Unless otherwise specified, the principal clearance system customarily used for settling trades in the relevant underlying.

XML Instance Representation

```
<...
clearanceSystemScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ClearanceSystem">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="clearanceSystemScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/clearance-system"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: ContractualDefinitions

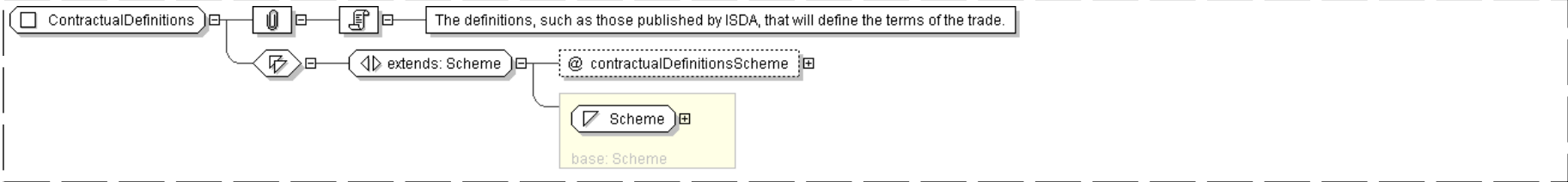
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ContractualDefinitions</b> (by extension)
Sub-types:	None

Name	ContractualDefinitions
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	The definitions, such as those published by ISDA, that will define the terms of the trade.

XML Instance Representation

```
<...  
contractualDefinitionsScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractualDefinitions">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="contractualDefinitionsScheme" type=" xsd:anyURI " default="http://www.  
        fpml.org/coding-scheme/contractual-definitions"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **ContractualMatrix**

Super-types:	None
Sub-types:	None

Name	ContractualMatrix
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no

XML Instance Representation

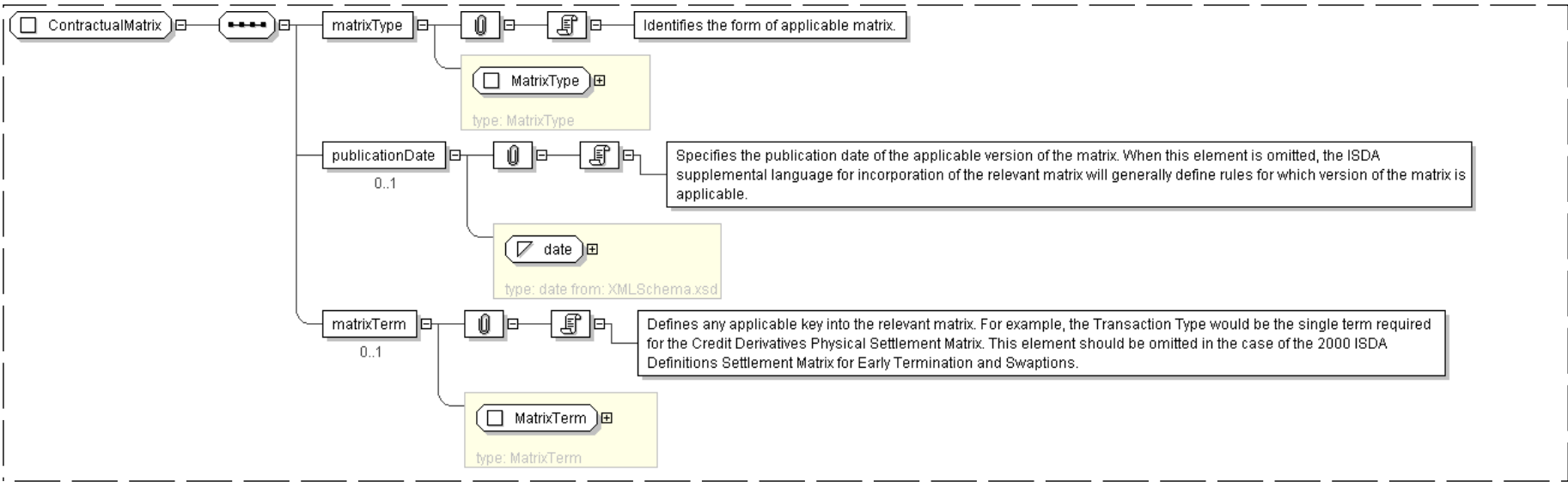
```
<...>  
  <matrixType MatrixType </matrixType> [1]  
    'Identifies the form of applicable matrix.'  
  
  <publicationDate xsd:date </publicationDate> [0..1]  
    'Specifies the publication date of the applicable version of the matrix. When this element  
    is omitted, the ISDA supplemental language for incorporation of the relevant matrix  
    will generally define rules for which version of the matrix is applicable.'  
  
  <matrixTerm MatrixTerm </matrixTerm> [0..1]  
    'Defines any applicable key into the relevant matrix. For example, the Transaction Type  
    would be the single term required for the Credit Derivatives Physical Settlement Matrix.'
```



This element should be omitted in the case of the 2000 ISDA Definitions Settlement Matrix for Early Termination and Swaptions.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractualMatrix">
  <xsd:sequence>
    <xsd:element name="matrixType" type=" MatrixType " />
    <xsd:element name="publicationDate" type=" xsd:date " minOccurs="0"/>
    <xsd:element name="matrixTerm" type=" MatrixTerm " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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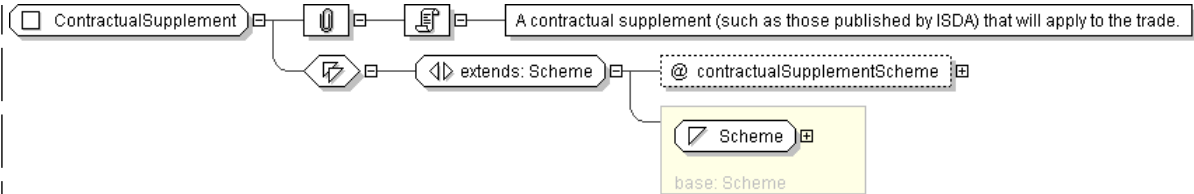
Complex Type: ContractualSupplement

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ContractualSupplement</b> (by extension)
Sub-types:	None
Name	ContractualSupplement
Used by (from the same schema document)	Complex Type <a href="#">ContractualTermsSupplement</a> , Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	A contractual supplement (such as those published by ISDA) that will apply to the trade.

XML Instance Representation

```
<...
  contractualSupplementScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractualSupplement">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="contractualSupplementsScheme" type=" xsd:anyURI " default="http://www.
        fpml.org/coding-scheme/contractual-supplement"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ContractualTermsSupplement**

Super-types:	None
Sub-types:	None
Name	ContractualTermsSupplement
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	A contractual supplement (such as those published by ISDA) and its publication date that will apply to the trade.

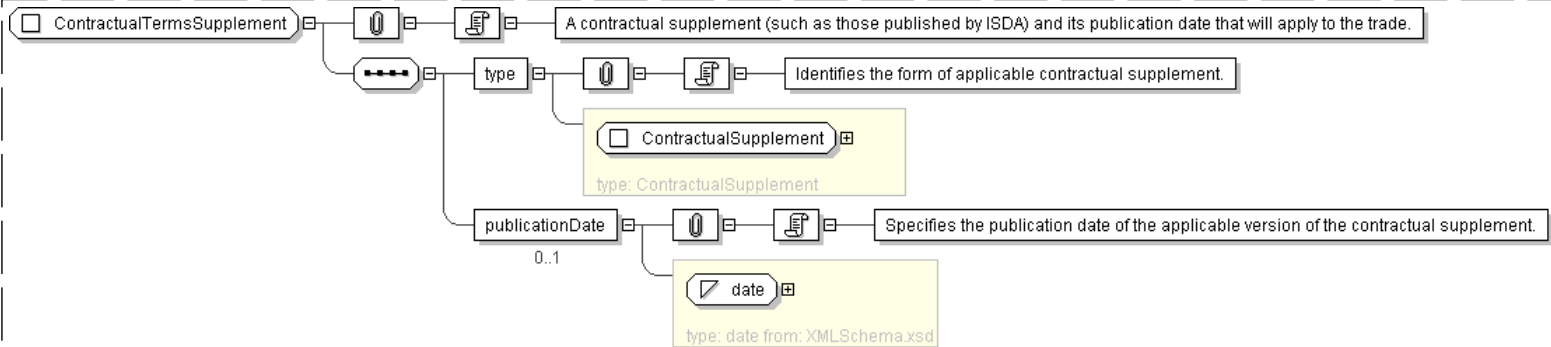
XML Instance Representation

```
<...>
  <type> ContractualSupplement </type> [1]
  'Identifies the form of applicable contractual supplement.'

  <publicationDate> xsd:date </publicationDate> [0..1]
  'Specifies the publication date of the applicable version of the contractual supplement.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ContractualTermsSupplement">
```

```
<xsd:sequence>
  <xsd:element name="type" type=" ContractualSupplement " />
  <xsd:element name="publicationDate" type=" xsd:date " minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CorrespondentInformation**

Super-types:	None
Sub-types:	None
Name	CorrespondentInformation
Used by (from the same schema document)	Complex Type <a href="#">SettlementInstruction</a>
Abstract	no
Documentation	A type that describes the information to identify a correspondent bank that will make delivery of the funds on the paying bank's behalf in the country where the payment is to be made.

XML Instance Representation

```
<...>
Start Choice [1]
  <routingIds> RoutingIds </routingIds> [1]
  'A set of unique identifiers for a party, eachone identifying the party within a
  payment system. The assumption is that each party will not have more than one identifier
  within the same payment system.'

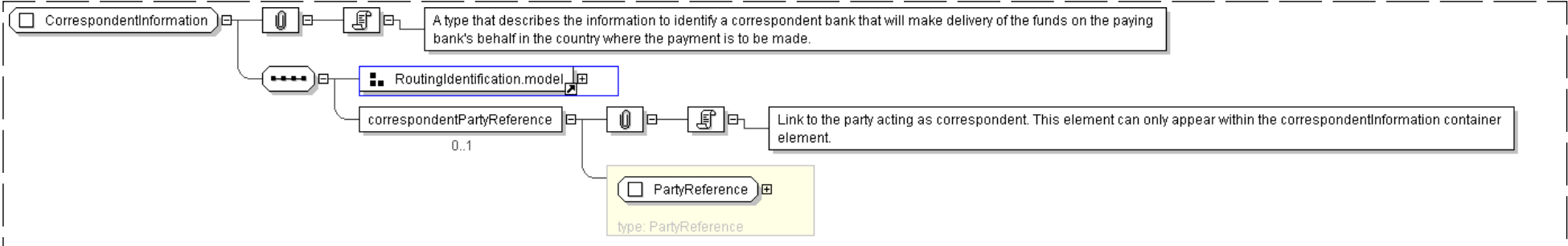
  <routingExplicitDetails> RoutingExplicitDetails </routingExplicitDetails> [1]
  'A set of details that is used to identify a party involved in the routing of a payment
  when the party does not have a code that identifies it within one of the recognized
  payment systems.'

  <routingIdsAndExplicitDetails> RoutingIdsAndExplicitDetails </routingIdsAndExplicitDetails> [1]
  'A combination of coded payment system identifiers and details for physical addressing for
  a party involved in the routing of a payment.'

End Choice
  <correspondentPartyReference> PartyReference </correspondentPartyReference> [0..1]
  'Link to the party acting as correspondent. This element can only appear within
  the correspondentInformation container element.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CorrespondentInformation">
  <xsd:sequence>
```

```
<xsd:group ref=" RoutingIdentification.model " />
<xsd:element name="correspondentPartyReference" type=" PartyReference " minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Country**

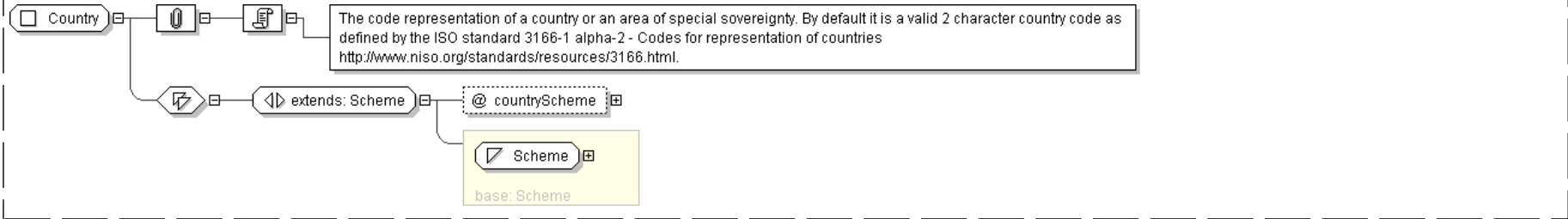
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>Country</b> (by extension)
Sub-types:	None

Name	Country
Used by (from the same schema document)	Complex Type <a href="#">Address</a>
Abstract	no
Documentation	The code representation of a country or an area of special sovereignty. By default it is a valid 2 character country code as defined by the ISO standard 3166-1 alpha-2 - Codes for representation of countries <a href="http://www.niso.org/standards/resources/3166.html">http://www.niso.org/standards/resources/3166.html</a> .

XML Instance Representation

```
<...
countryScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Country">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="countryScheme" type=" xsd:anyURI " default="http://www.fpml.org/
        ext/iso3166"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **CreditSeniority**

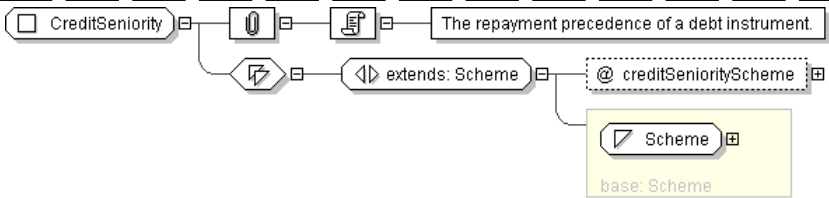
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>CreditSeniority</b> (by extension)
Sub-types:	None

Name	CreditSeniority
Abstract	no
Documentation	The repayment precedence of a debt instrument.

XML Instance Representation

```
<...  
creditSeniorityScheme=" xsd:anyURI [0..1]  
'creditSeniorityTradingScheme overrides creditSeniorityScheme when the underlyer defines  
the reference obligation used in a single name credit default swap trade.'  
">  
Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditSeniority">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme " >  
      <xsd:attribute name="creditSeniorityScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/credit-seniority"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

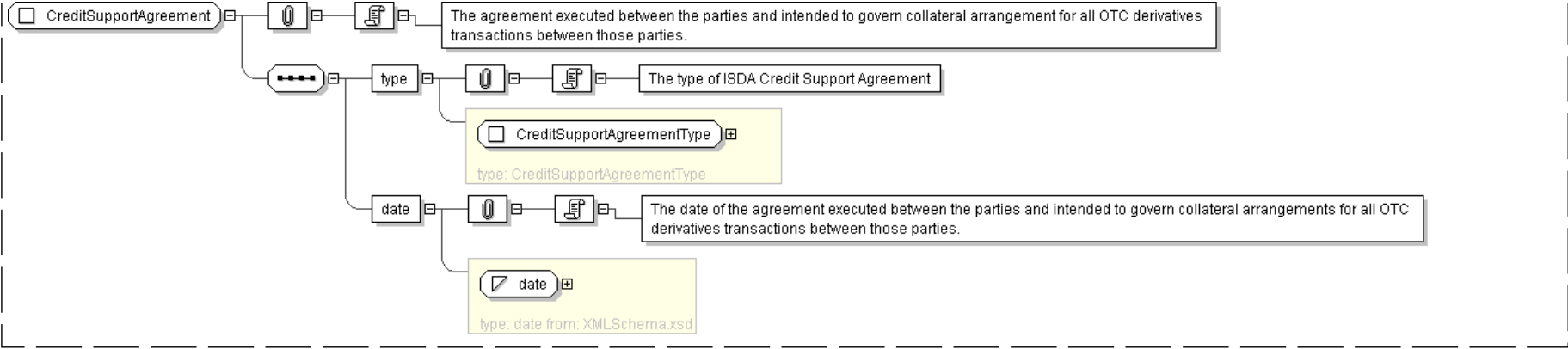
Complex Type: **CreditSupportAgreement**

Super-types:	None
Sub-types:	None
Name	CreditSupportAgreement
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	The agreement executed between the parties and intended to govern collateral arrangement for all OTC derivatives transactions between those parties.

XML Instance Representation

```
<...>  
<type> CreditSupportAgreementType </type> [1]  
'The type of ISDA Credit Support Agreement'  
  
<date> xsd:date </date> [1]  
'The date of the agreement executed between the parties and intended to govern  
collateral arrangements for all OTC derivatives transactions between those parties.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditSupportAgreement">
  <xsd:sequence>
    <xsd:element name="type" type="CreditSupportAgreementType" />
    <xsd:element name="date" type="xsd:date" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **CreditSupportAgreementType**

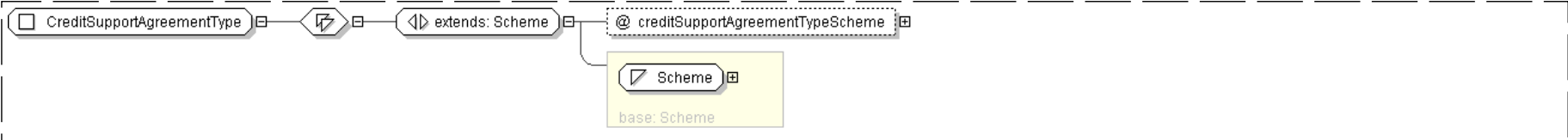
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>CreditSupportAgreementType</b> (by extension)
Sub-types:	None

Name	CreditSupportAgreementType
Used by (from the same schema document)	Complex Type <a href="#">CreditSupportAgreement</a>
Abstract	no

XML Instance Representation

```
<...
creditSupportAgreementTypeScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="CreditSupportAgreementType">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="creditSupportAgreementTypeScheme" type="xsd:anyURI" default="http://www.fpml.org/coding-scheme/credit-support-agreement-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

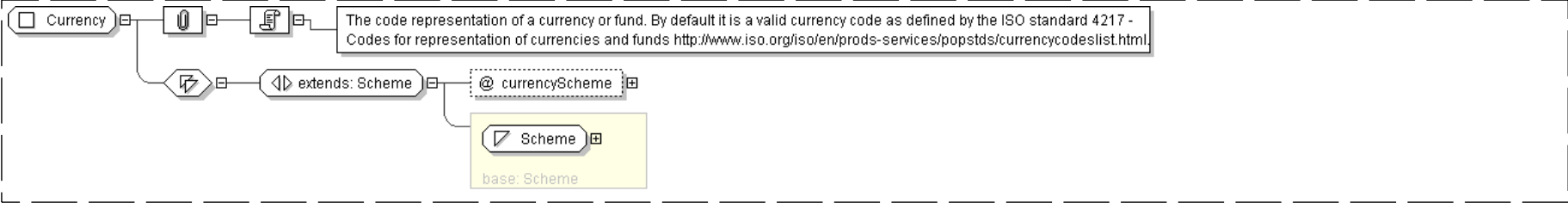
Complex Type: **Currency**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>Currency</b> (by extension)
Sub-types:	None
Name	Currency
Used by (from the same schema document)	Complex Type <a href="#">AmountSchedule</a> , Complex Type <a href="#">FxCashSettlement</a> , Complex Type <a href="#">MoneyBase</a> , Complex Type <a href="#">NonNegativeAmountSchedule</a> , Complex Type <a href="#">PaymentCurrency</a> , Complex Type <a href="#">PositiveAmountSchedule</a> , Complex Type <a href="#">PricingStructure</a> , Complex Type <a href="#">QuotedCurrencyPair</a> , Complex Type <a href="#">QuotedCurrencyPair</a> , Model Group <a href="#">SettlementAmountOrCurrency.model</a>
Abstract	no
Documentation	The code representation of a currency or fund. By default it is a valid currency code as defined by the ISO standard 4217 - Codes for representation of currencies and funds <a href="http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html">http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html</a> .

XML Instance Representation

```
<...  
  currencyScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Currency">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="currencyScheme" type=" xsd:anyURI " default="http://www.fpml.org/  
        ext/iso4217-2001-08-15"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

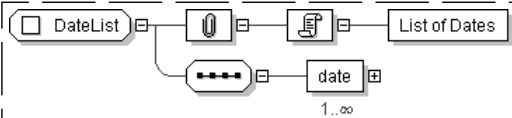
Complex Type: **DateList**

Super-types:	None
Sub-types:	None
Name	DateList
Abstract	no
Documentation	List of Dates

XML Instance Representation

```
<...>  
  <date> xsd:date </date> [1..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DateList">
  <xsd:sequence>
    <xsd:element name="date" type="xsd:date" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **DateOffset**

Super-types:	<a href="#">Period</a> < <a href="#">Offset</a> (by extension) < <b>DateOffset</b> (by extension)
Sub-types:	None
Name	DateOffset
Used by (from the same schema document)	Complex Type <a href="#">RelativeDateSequence</a>
Abstract	no
Documentation	A type defining an offset used in calculating a date when this date is defined in reference to another date through a date offset. The type includes the convention for adjusting the date and an optional sequence element to indicate the order in a sequence of multiple date offsets.

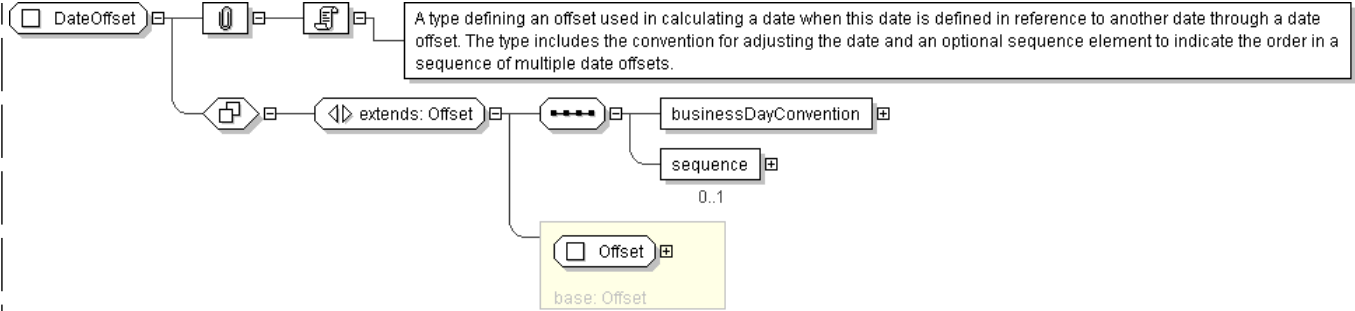
XML Instance Representation

```
<...
  id="xsd:ID [0..1]">
    <periodMultiplier>xsd:integer </periodMultiplier> [1]
    'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying
    an offset relative to another date, e.g. -2 days.'

    <period>PeriodEnum </period> [1]
    'A time period, e.g. a day, week, month or year of the stream. If the periodMultiplier value
    is 0 (zero) then period must contain the value D (day).'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="DateOffset">
  <xsd:complexContent>
    <xsd:extension base="Offset" />
    <xsd:sequence>
      <xsd:element name="businessDayConvention" type="BusinessDayConventionEnum" />
      <xsd:element name="sequence" type="xsd:positiveInteger" minOccurs="0"
        deprecated="true" deprecatedReason="Ordering is already present in the XML instance
        document. It shouldn't be defined as an element as stated in the Architecture Specification"/>
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

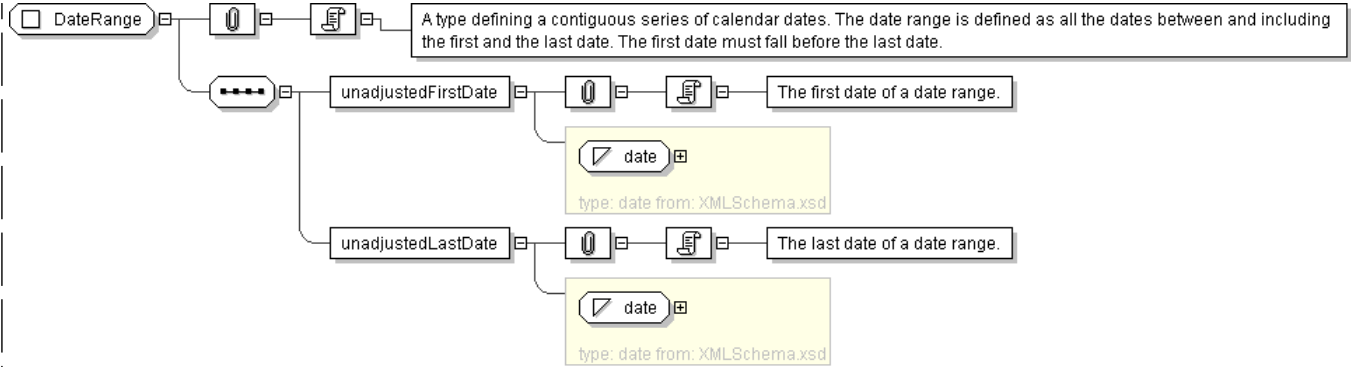
Complex Type: **DateRange**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">BusinessDateRange</a> (by extension)</li></ul>
Name	DateRange
Used by (from the same schema document)	Complex Type <a href="#">RelativeDates</a>
Abstract	no
Documentation	A type defining a contiguous series of calendar dates. The date range is defined as all the dates between and including the first and the last date. The first date must fall before the last date.

XML Instance Representation

```
<...>
  <unadjustedFirstDate> xsd:date </unadjustedFirstDate> [1]
  'The first date of a date range.'
  <unadjustedLastDate> xsd:date </unadjustedLastDate> [1]
  'The last date of a date range.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DateRange">
  <xsd:sequence>
    <xsd:element name="unadjustedFirstDate" type="xsd:date" />
    <xsd:element name="unadjustedLastDate" type="xsd:date" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **DateReference**

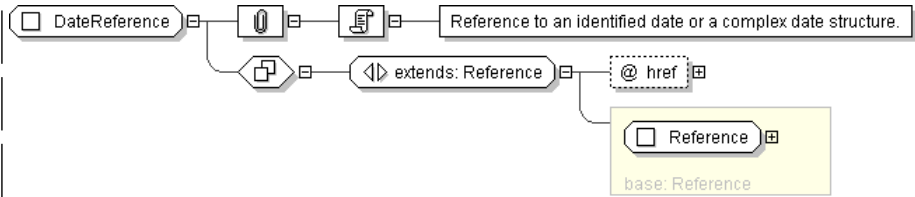
Super-types:	<a href="#">Reference</a> < <b>DateReference</b> (by extension)
Sub-types:	None

Name	DateReference
Used by (from the same schema document)	Complex Type <a href="#">RelativeDateOffset</a> , Complex Type <a href="#">RelativeDateSequence</a>
Abstract	no
Documentation	Reference to an identified date or a complex date structure.

XML Instance Representation

```
<...
  href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DateReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **DateTimeList**

Super-types:	None
Sub-types:	None
Name	DateTimeList
Abstract	no
Documentation	List of DateTimes

XML Instance Representation

```
<...>
  <dateTime> xsd:dateTime </dateTime> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DateTimeList">
  <xsd:sequence>
    <xsd:element name="dateTime" type="xsd:dateTime" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **DayCountFraction**

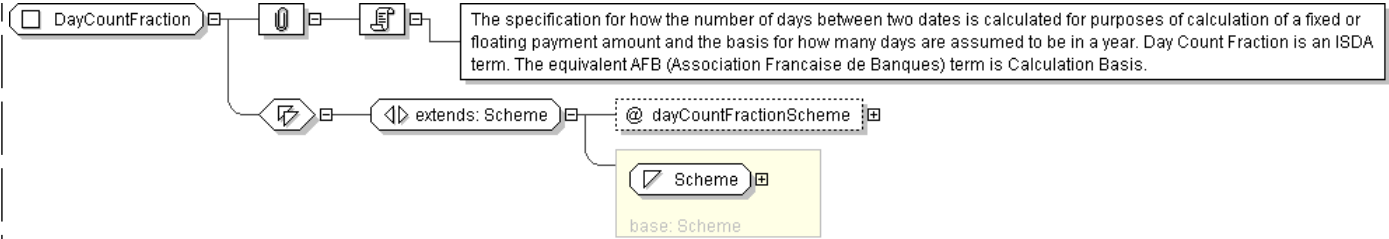
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>DayCountFraction</b> (by extension)
Sub-types:	None
Name	DayCountFraction
Abstract	no
Documentation	The specification for how the number of days between two dates is calculated for purposes of calculation of a fixed or floating payment amount and the basis for how many days are assumed to be in a year. Day Count Fraction is an ISDA term. The equivalent AFB (Association Francaise de Banques) term is Calculation Basis.

XML Instance Representation

```
<...
dayCountFractionScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="DayCountFraction">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="dayCountFractionScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/day-count-fraction"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **DeterminationMethod**

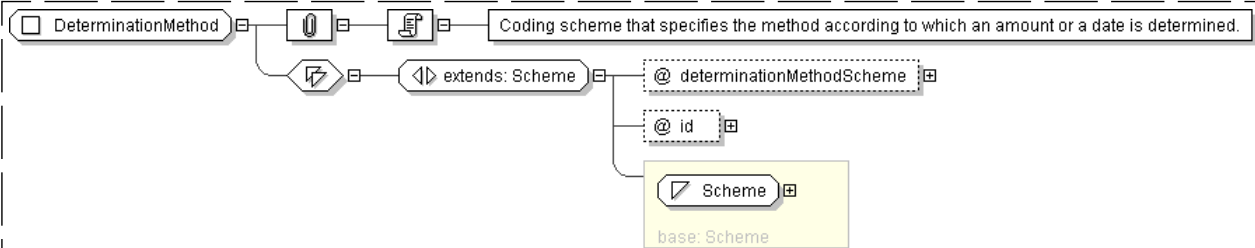
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>DeterminationMethod</b> (by extension)
Sub-types:	None

Name	DeterminationMethod
Used by (from the same schema document)	Complex Type <a href="#">PaymentCurrency</a>
Abstract	no
Documentation	Coding scheme that specifies the method according to which an amount or a date is determined.

XML Instance Representation

```
<...
determinationMethodScheme=" xsd:anyURI [0..1]"
id=" xsd:ID [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DeterminationMethod">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="determinationMethodScheme" type=" xsd:anyURI " default="http://www.
        fpml.org/coding-scheme/determination-method"/>
      <xsd:attribute name="id" type=" xsd:ID "/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

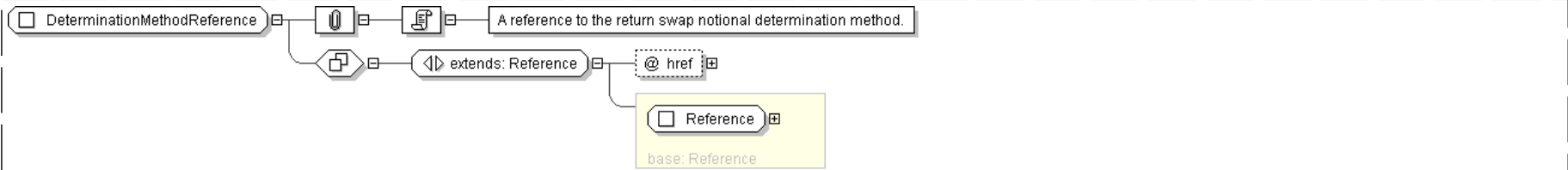
Complex Type: **DeterminationMethodReference**

Super-types:	<a href="#">Reference</a> < <b>DeterminationMethodReference</b> (by extension)
Sub-types:	None
Name	DeterminationMethodReference
Abstract	no
Documentation	A reference to the return swap notional determination method.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="DeterminationMethodReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference" >  
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="DeterminationMethod"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **Documentation**

Super-types:	None
Sub-types:	None
Name	Documentation
Abstract	no
Documentation	An entity for defining the definitions that govern the document and should include the year and type of definitions referenced, along with any relevant documentation (such as master agreement) and the date it was signed.

XML Instance Representation

```
<...>  
<masterAgreement> MasterAgreement </masterAgreement> [0..1]  
  'The agreement executed between the parties and intended to govern all OTC  
  derivatives transactions between those parties.'  
  
Start Choice [0..1]  
  <masterConfirmation> MasterConfirmation </masterConfirmation> [1]  
  'The agreement executed between the parties and intended to govern all OTC
```

derivatives transactions between those parties.'

<brokerConfirmation> [BrokerConfirmation](#) </brokerConfirmation> [1]

'Specifies the details for a broker confirm.'

End Choice

<contractualDefinitions> [ContractualDefinitions](#) </contractualDefinitions> [0..\*]

'The definitions such as those published by ISDA that will define the terms of the trade.'

Start Choice [1]

<contractualSupplement> [ContractualSupplement](#) </contractualSupplement> [0..\*]

'DEPRECATED - This element will be removed in the next major version of FpML. The element contractualTermsSupplement should be used instead. Definition: A contractual supplement (such as those published by ISDA) that will apply to the trade.'

<contractualTermsSupplement> [ContractualTermsSupplement](#) </contractualTermsSupplement> [0..\*]

'A contractual supplement (such as those published by ISDA) that will apply to the trade.'

End Choice

<contractualMatrix> [ContractualMatrix](#) </contractualMatrix> [0..\*]

'A reference to a contractual matrix of elected terms/values (such as those published by ISDA) that shall be deemed to apply to the trade. The applicable matrix is identified by reference to a name and optionally a publication date. Depending on the structure of the matrix, an additional term (specified in the matrixTerm element) may be required to further identify a subset of applicable terms/values within the matrix.'

Start Choice [0..1]

<creditSupportDocument> [xsd:normalizedString](#) </creditSupportDocument> [1]

'DEPRECATED - This element will be removed in the next major version of FpML. The agreement executed between the parties and intended to govern collateral arrangement for all OTC derivatives transactions between those parties.'

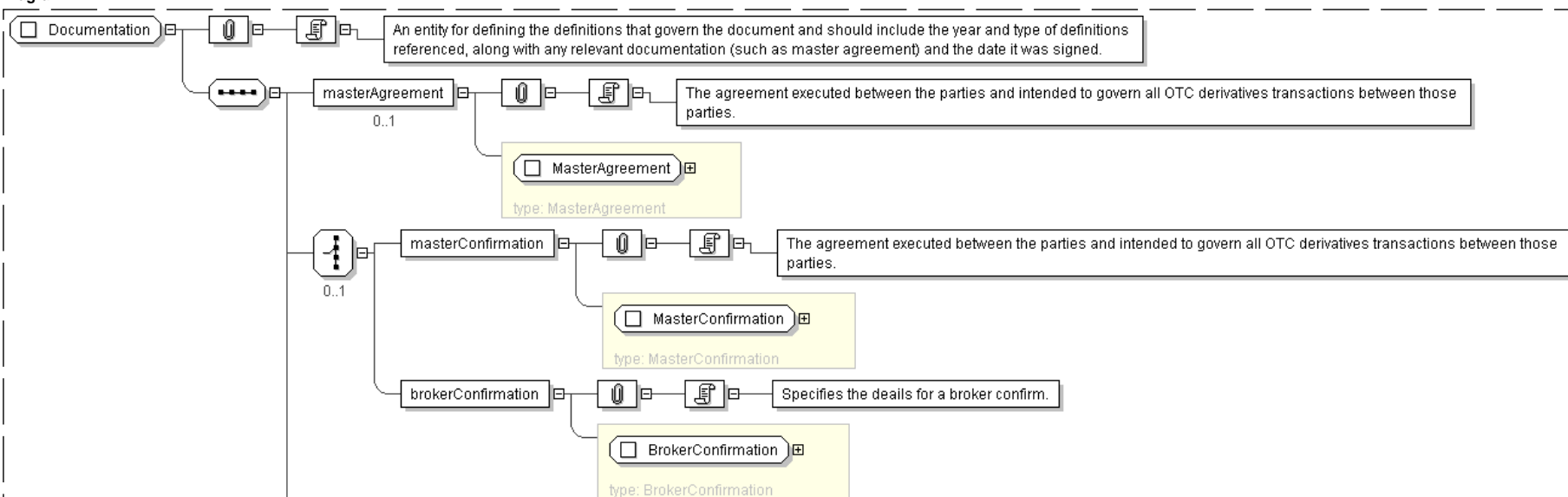
<creditSupportAgreement> [CreditSupportAgreement](#) </creditSupportAgreement> [1]

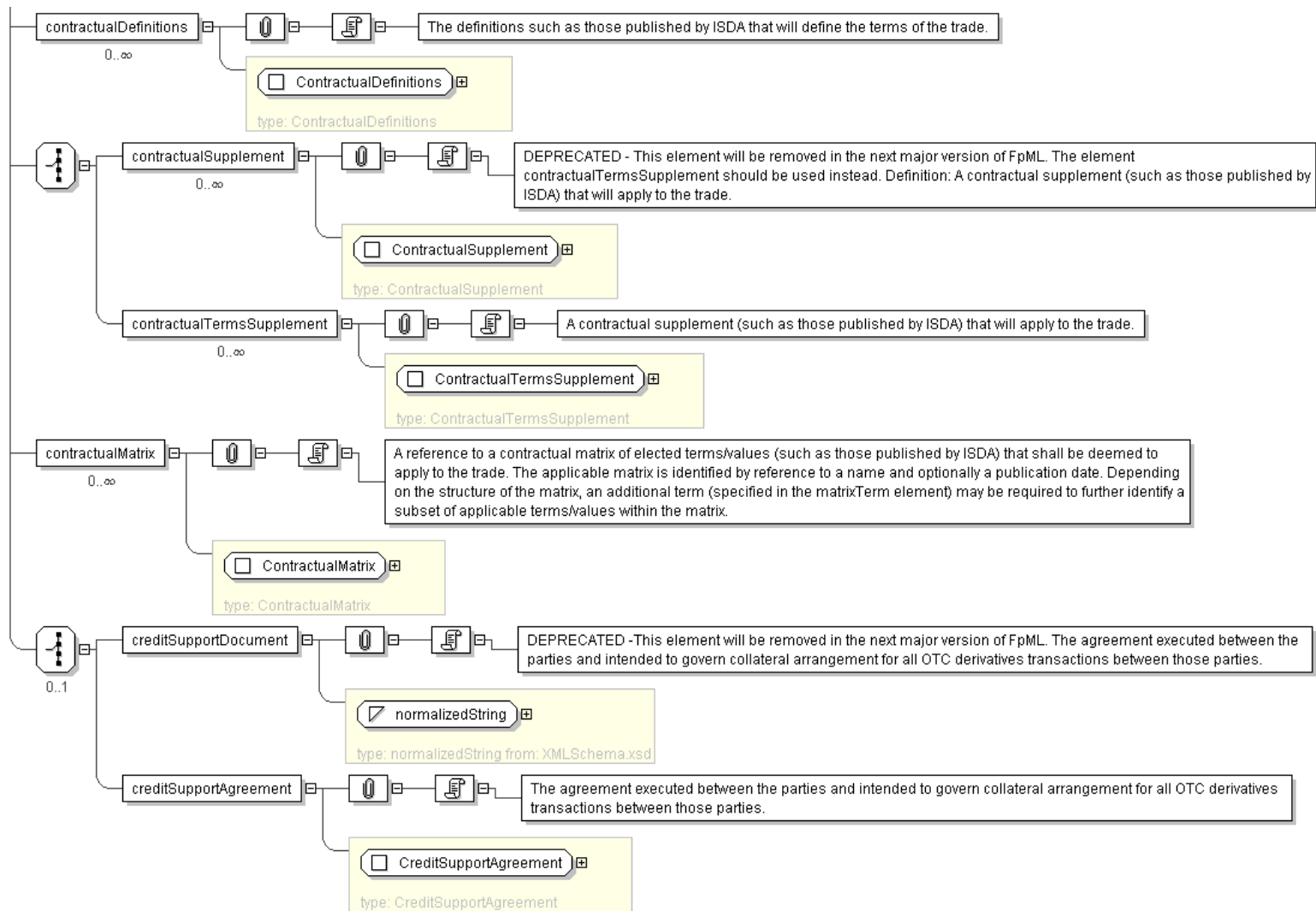
'The agreement executed between the parties and intended to govern collateral arrangement for all OTC derivatives transactions between those parties.'

End Choice

</...>

## Diagram





## Schema Component Representation

```

<xsd:complexType name="Documentation">
  <xsd:sequence>
    <xsd:element name="masterAgreement" type="MasterAgreement" minOccurs="0"/>
    <xsd:choice minOccurs="0">
      <xsd:element name="masterConfirmation" type="MasterConfirmation" />
      <xsd:element name="brokerConfirmation" type="BrokerConfirmation" />
    </xsd:choice>
    <xsd:element name="contractualDefinitions" type="ContractualDefinitions"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:choice>
      <xsd:element name="contractualSupplement" type="ContractualSupplement"
        minOccurs="0" maxOccurs="unbounded" deprecated="true"
        deprecatedReason="The contractualTermsSupplement includes the publication date, which was
        not present in the contractualSupplement"/>
      <xsd:element name="contractualTermsSupplement" type="ContractualTermsSupplement"
        minOccurs="0" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:element name="contractualMatrix" type="ContractualMatrix"

```

```
minOccurs="0" maxOccurs="unbounded"/>
<xsd:choice minOccurs="0">
  <xsd:element name="creditSupportDocument" type="xsd:normalizedString"
    deprecated="true" deprecatedReason="Created a new creditSupportAgreement element of
    type CreditSupportAgreement to replace the creditSupportDocument element."/>
  <xsd:element name="creditSupportAgreement" type="CreditSupportAgreement" />
</xsd:choice>
</xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Empty**

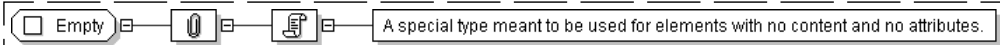
Super-types:	None
Sub-types:	None

Name	Empty
Abstract	no
Documentation	A special type meant to be used for elements with no content and no attributes.

XML Instance Representation

```
<.../>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Empty"/>
```

[top](#)

Complex Type: **EntityId**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>EntityId</b> (by extension)
Sub-types:	None

Name	EntityId
Used by (from the same schema document)	Complex Type <a href="#">LegalEntity</a> , Complex Type <a href="#">LegalEntity</a>
Abstract	no
Documentation	A legal entity identifier (e.g. RED entity code).

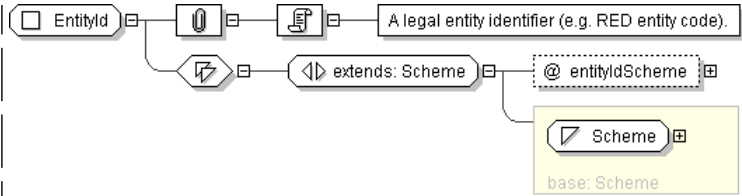
XML Instance Representation

```
<...
  entityIdScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram







Schema Component Representation

```
<xsd:complexType name="EntityId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="entityIdScheme" type=" xsd:anyURI " default="http://www.fpml.org/
spec/2003/entity-id-RED-1-0"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

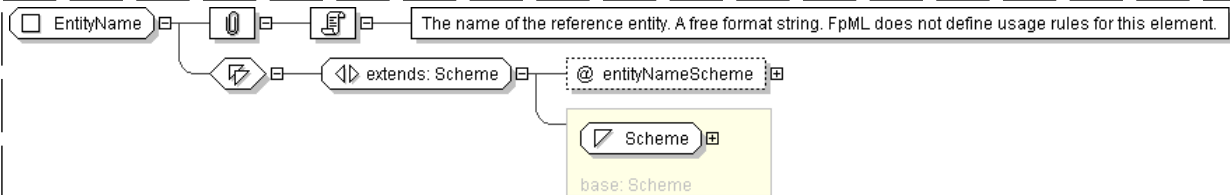
Complex Type: **EntityName**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>EntityName</b> (by extension)
Sub-types:	None
Name	EntityName
Used by (from the same schema document)	Complex Type <a href="#">LegalEntity</a>
Abstract	no
Documentation	The name of the reference entity. A free format string. FpML does not define usage rules for this element.

XML Instance Representation

```
<...
entityNameScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EntityName">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="entityNameScheme" type=" xsd:anyURI " default="http://www.fpml.
org/spec/2003/entity-name-RED-1-0"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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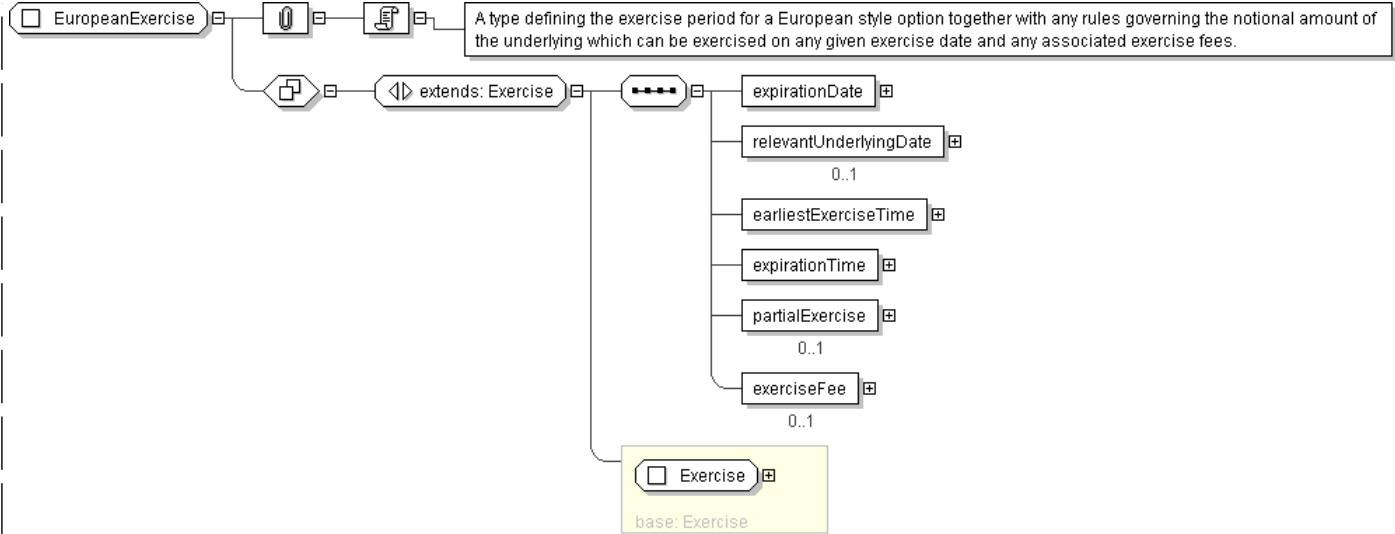
Complex Type: **EuropeanExercise**

Super-types:	<a href="#">Exercise</a> < <b>EuropeanExercise</b> (by extension)
Sub-types:	None
Name	EuropeanExercise
Used by (from the same schema document)	Element <a href="#">europeanExercise</a>
Abstract	no
Documentation	A type defining the exercise period for a European style option together with any rules governing the notional amount of the underlying which can be exercised on any given exercise date and any associated exercise fees.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]  
    'The last day within an exercise period for an American style option. For a European style option it is the only day within the exercise period.'  
  
    <relevantUnderlyingDate> AdjustableOrRelativeDates </relevantUnderlyingDate> [0..1]  
    'The daye on the underlying set by the exercise of an option. What this date is depends on the option (e.g. in a swaption it is the effective date, in an extendible/cancelable provision it is the termination date).'  
  
    <earliestExerciseTime> BusinessCenterTime </earliestExerciseTime> [1]  
    'The earliest time at which notice of exercise can be given by the buyer to the seller (or seller\'s agent) i) on the expriation date, in the case of a European style option, (ii) on each bermuda option exercise date and the expiration date, in the case of a Bermuda style option the commencement date to, and including, the expiration date , in the case of an American option.'  
  
    <expirationTime> BusinessCenterTime </expirationTime> [1]  
    'The latest time for exercise on expirationDate.'  
  
    <partialExercise> PartialExercise </partialExercise> [0..1]  
    'As defined in the 2000 ISDA Definitions, Section 12.3. Partial Exercise, the buyer of the option has the right to exercise all or less than all the notional amount of the underlying swap on the expiration date, but may not exercise less than the minimum notional amount, and if an integral multiple amount is specified, the notional amount exercised must be equal to, or be an integral multiple of, the integral multiple amount.'  
  
    <exerciseFee> ExerciseFee </exerciseFee> [0..1]  
    'A fee to be paid on exercise. This could be represented as an amount or a rate and notional reference on which to apply the rate.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="EuropeanExercise">
  <xsd:complexContent>
    <xsd:extension base="Exercise">
      <xsd:sequence>
        <xsd:element name="expirationDate" type="AdjustableOrRelativeDate"/>
        <xsd:element name="relevantUnderlyingDate" type="AdjustableOrRelativeDates" minOccurs="0"/>
        <xsd:element name="earliestExerciseTime" type="BusinessCenterTime"/>
        <xsd:element name="expirationTime" type="BusinessCenterTime"/>
        <xsd:element name="partialExercise" type="PartialExercise" minOccurs="0"/>
        <xsd:element name="exerciseFee" type="ExerciseFee" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **Exchangeld**

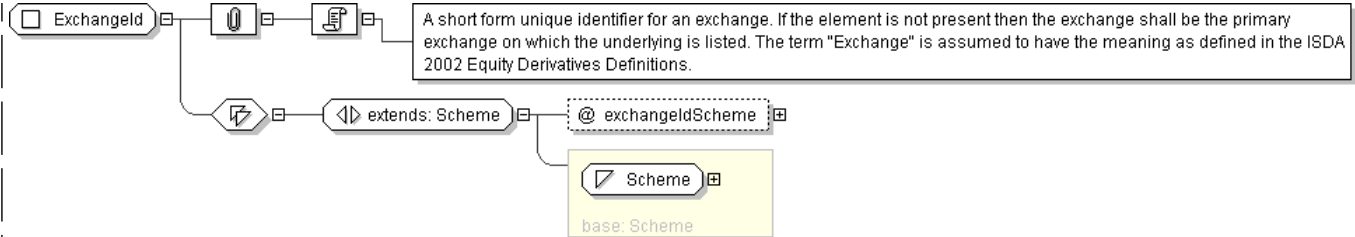
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>Exchangeld</b> (by extension)
Sub-types:	None

Name	Exchangeld
Abstract	no
Documentation	A short form unique identifier for an exchange. If the element is not present then the exchange shall be the primary exchange on which the underlying is listed. The term "Exchange" is assumed to have the meaning as defined in the ISDA 2002 Equity Derivatives Definitions.

XML Instance Representation

```
<...
exchangeIdScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExchangeId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="exchangeIdScheme" type=" xsd:anyURI " default="http://www.fpml.org/spec/2002/exchange-id-MIC-1-0"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Exercise**

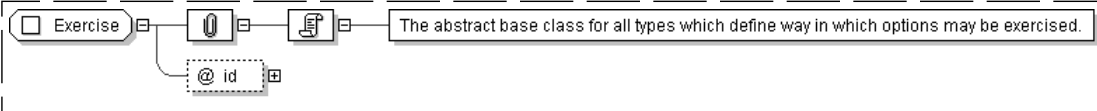
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">AmericanExercise</a> (by extension)</li><li><a href="#">BermudaExercise</a> (by extension)</li><li><a href="#">EuropeanExercise</a> (by extension)</li><li><a href="#">SharedAmericanExercise</a> (by extension)</li></ul>

Name	Exercise
Used by (from the same schema document)	Element <a href="#">exercise</a>
Abstract	no
Documentation	The abstract base class for all types which define way in which options may be exercised.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Exercise">
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: **ExerciseFee**

Super-types:	None
Sub-types:	None

Name	ExerciseFee
Used by (from the same schema document)	Complex Type <a href="#">EuropeanExercise</a>
Abstract	no
Documentation	A type defining the fee payable on exercise of an option. This fee may be defined as an amount or a percentage of the notional exercised.

XML Instance Representation

```
<...>
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'

<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'

<notionalReference> NotionalReference </notionalReference> [1]
'A pointer style reference to the associated notional schedule defined elsewhere in
the document.'

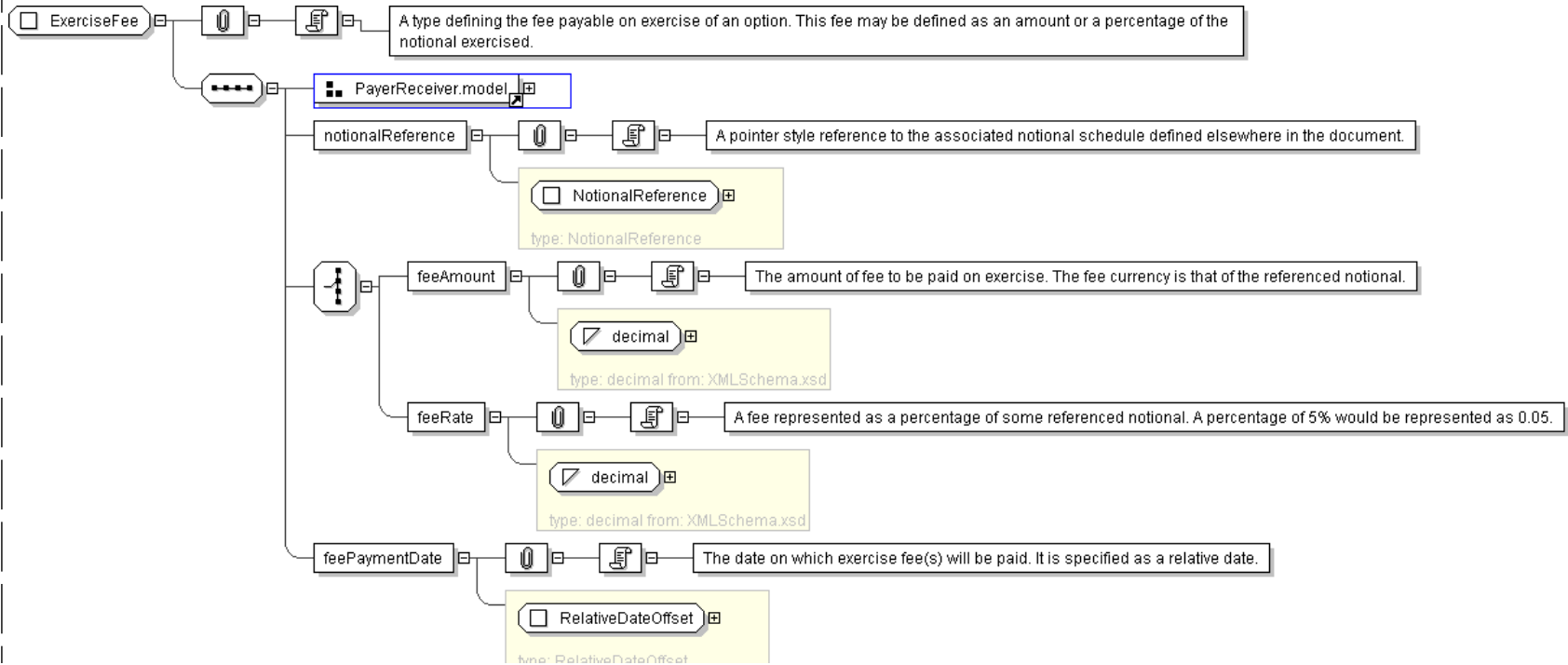
Start Choice [1]
<feeAmount> xsd:decimal </feeAmount> [1]
'The amount of fee to be paid on exercise. The fee currency is that of the referenced notional.'

<feeRate> xsd:decimal </feeRate> [1]
'A fee represented as a percentage of some referenced notional. A percentage of 5% would
be represented as 0.05.'

End Choice
<feePaymentDate> RelativeDateOffset </feePaymentDate> [1]
'The date on which exercise fee(s) will be paid. It is specified as a relative date.'

</...>
```

Diagram



type: PayerReceiverModel

Schema Component Representation

```
<xsd:complexType name="ExerciseFee">
  <xsd:sequence>
    <xsd:group ref=" PayerReceiver.model " />
    <xsd:element name="notionalReference" type=" NotionalReference " />
    <xsd:choice>
      <xsd:element name="feeAmount" type=" xsd:decimal " />
      <xsd:element name="feeRate" type=" xsd:decimal " />
    </xsd:choice>
    <xsd:element name="feePaymentDate" type=" RelativeDateOffset " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: ExerciseFeeSchedule

Super-types:	None
Sub-types:	None
Name	ExerciseFeeSchedule
Used by (from the same schema document)	Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">BermudaExercise</a>
Abstract	no
Documentation	A type to define a fee or schedule of fees to be payable on the exercise of an option. This fee may be defined as an amount or a percentage of the notional exercised.

XML Instance Representation

```
<...>
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <notionalReference> ScheduleReference </notionalReference> [1]
  'A pointer style reference to the associated notional schedule defined elsewhere in
  the document.'

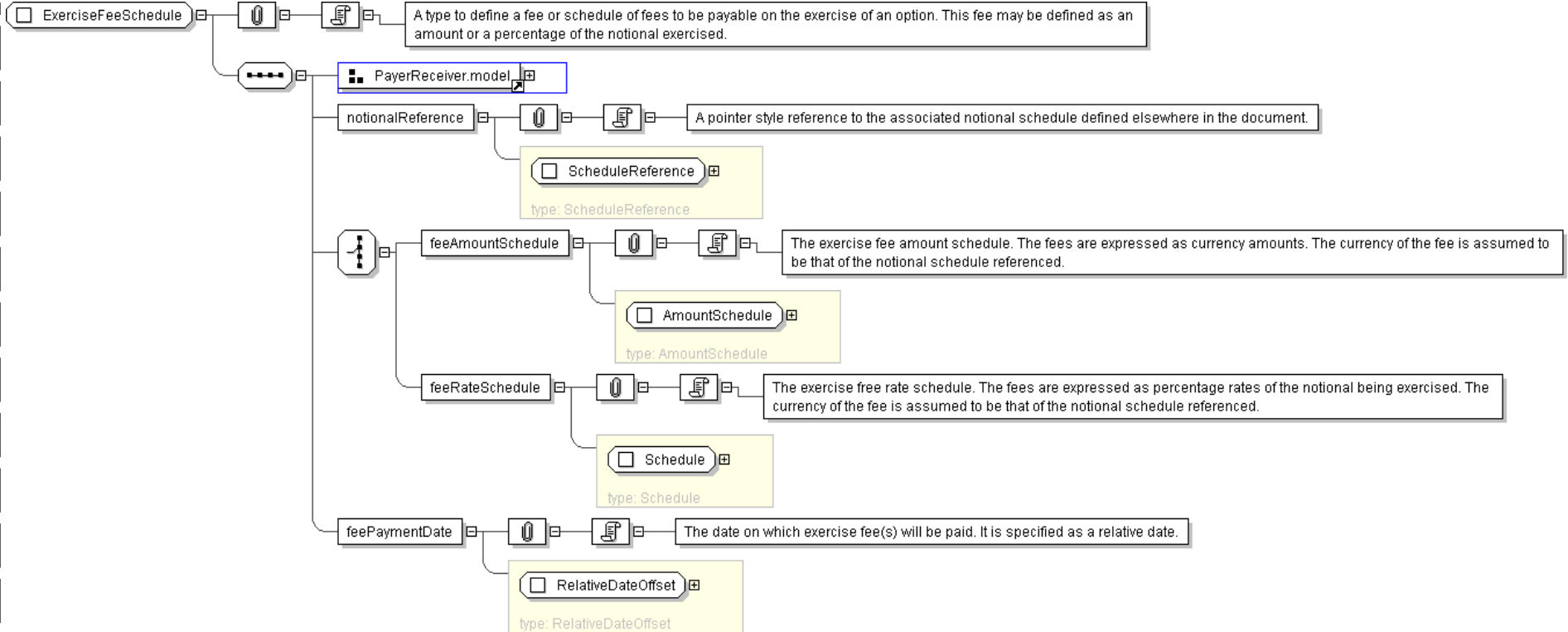
  Start Choice [1]
    <feeAmountSchedule> AmountSchedule </feeAmountSchedule> [1]
    'The exercise fee amount schedule. The fees are expressed as currency amounts. The currency
    of the fee is assumed to be that of the notional schedule referenced.'

    <feeRateSchedule> Schedule </feeRateSchedule> [1]
    'The exercise free rate schedule. The fees are expressed as percentage rates of the
    notional being exercised. The currency of the fee is assumed to be that of the
    notional schedule referenced.'

  End Choice
  <feePaymentDate> RelativeDateOffset </feePaymentDate> [1]
  'The date on which exercise fee(s) will be paid. It is specified as a relative date.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExerciseFeeSchedule">
  <xsd:sequence>
    <xsd:group ref=" PayerReceiver.model " />
    <xsd:element name="notionalReference" type=" ScheduleReference " />
    <xsd:choice>
      <xsd:element name="feeAmountSchedule" type=" AmountSchedule " />
      <xsd:element name="feeRateSchedule" type=" Schedule " />
    </xsd:choice>
    <xsd:element name="feePaymentDate" type=" RelativeDateOffset " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ExerciseNotice**

Super-types:	None
Sub-types:	None
Name	ExerciseNotice
Used by (from the same schema document)	Complex Type <a href="#">ManualExercise</a>
Abstract	no
Documentation	A type defining to whom and where notice of execution should be given. The partyReference refers to one of the principal parties of the trade. If present the exerciseNoticePartyReference refers to a party, other than the principal party, to whome notice should be given.

XML Instance Representation

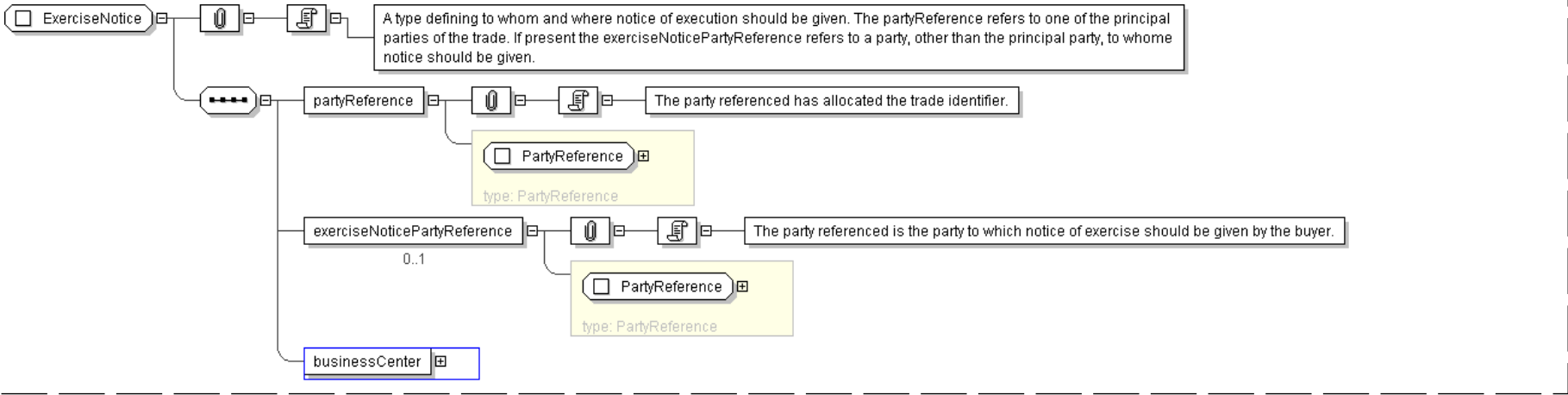
```
<...>
```

```
<partyReference> PartyReference </partyReference> [1]
'The party referenced has allocated the trade identifier.'

<exerciseNoticePartyReference> PartyReference </exerciseNoticePartyReference> [0..1]
'The party referenced is the party to which notice of exercise should be given by the buyer.'

<businessCenter> BusinessCenter </businessCenter> [1]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ExerciseNotice">
  <xsd:sequence>
    <xsd:element name="partyReference" type=" PartyReference "/>
    <xsd:element name="exerciseNoticePartyReference" type=" PartyReference " minOccurs="0"/>
    <xsd:element name="businessCenter" type=" BusinessCenter "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ExerciseProcedure**

Super-types:	None
Sub-types:	None

Name	ExerciseProcedure
Abstract	no
Documentation	A type describing how notice of exercise should be given. This can be either manual or automatic.

XML Instance Representation

```
<...>
Start Choice [1]
<manualExercise> ManualExercise </manualExercise> [1]
'Specifies that the notice of exercise must be given by the buyer to the seller or seller
's agent.'

<automaticExercise> AutomaticExercise </automaticExercise> [1]
'If automatic is specified then the notional amount of the underlying swap, not
previously exercised under the swaption will be automatically exercised at the expiration
time on the expiration date if at such time the buyer is in-the-money, provided that
```



the difference between the settlement rate and the fixed rate under the relevant underlying swap is not less than the specified threshold rate. The term in-the-money is assumed to have the meaning defining in the 2000 ISDA Definitions, Section 17.4 In-the-money.'

End Choice

```
<followUpConfirmation> xsd:boolean </followUpConfirmation> [1]
```

'A flag to indicate whether follow-up confirmation of exercise (written or electronic) is required following telephonic notice by the buyer to the seller or seller's agent.'

```
<limitedRightToConfirm> xsd:boolean </limitedRightToConfirm> [0..1]
```

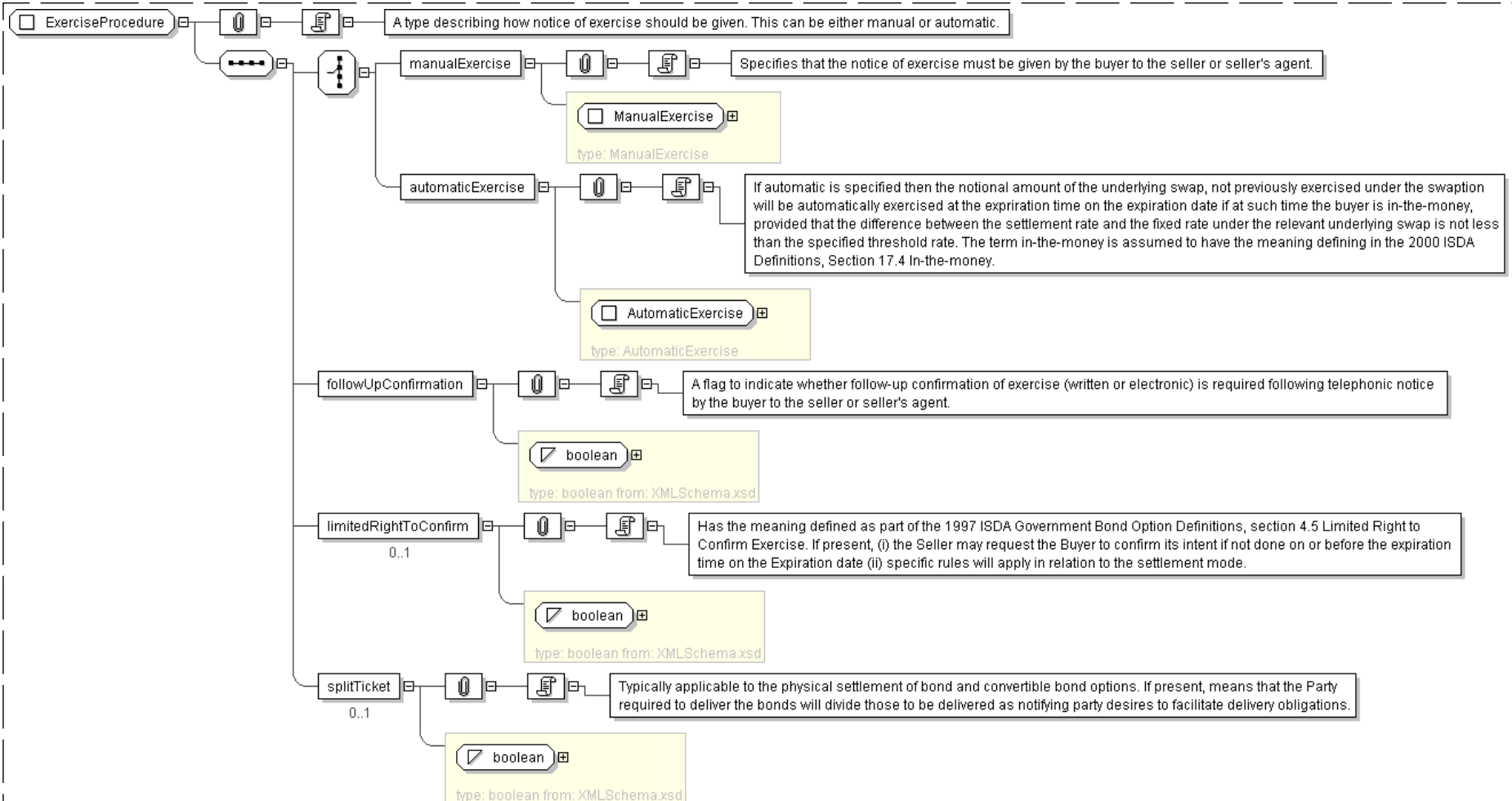
'Has the meaning defined as part of the 1997 ISDA Government Bond Option Definitions, section 4.5 Limited Right to Confirm Exercise. If present, (i) the Seller may request the Buyer to confirm its intent if not done on or before the expiration time on the Expiration date (ii) specific rules will apply in relation to the settlement mode.'

```
<splitTicket> xsd:boolean </splitTicket> [0..1]
```

'Typically applicable to the physical settlement of bond and convertible bond options. If present, means that the Party required to deliver the bonds will divide those to be delivered as notifying party desires to facilitate delivery obligations.'

</...>

## Diagram



Schema Component Representation

```
<xsd:complexType name="ExerciseProcedure">
  <xsd:sequence>
    <xsd:choice>
      <xsd:element name="manualExercise" type=" ManualExercise "/>
      <xsd:element name="automaticExercise" type=" AutomaticExercise "/>
    </xsd:choice>
    <xsd:element name="followUpConfirmation" type=" xsd:boolean "/>
    <xsd:element name="limitedRightToConfirm" type=" xsd:boolean " minOccurs="0"/>
    <xsd:element name="splitTicket" type=" xsd:boolean " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FloatingRate**

Super-types:	<a href="#">Rate</a> < <b>FloatingRate</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">FloatingRateCalculation</a> (by extension)</li></ul>
Name	FloatingRate
Used by (from the same schema document)	Complex Type <a href="#">StubValue</a>
Abstract	no
Documentation	A type defining a floating rate.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
  <indexTenor> Period </indexTenor> [0..1]

  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

  <floatingRateMultiplierSchedule> Schedule </floatingRateMultiplierSchedule> [0..1]

  'A rate multiplier or multiplier schedule to apply to the floating rate. A multiplier
  schedule is expressed as explicit multipliers and dates. In the case of a schedule, the
  step dates may be subject to adjustment in accordance with any adjustments specified in
  the calculationPeriodDatesAdjustments. The multiplier can be a positive or negative
  decimal. This element should only be included if the multiplier is not equal to 1 (one) for
  the term of the stream.'

  <spreadSchedule> SpreadSchedule </spreadSchedule> [0..*]

  'The ISDA Spread or a Spread schedule expressed as explicit spreads and dates. In the case of
  a schedule, the step dates may be subject to adjustment in accordance with any
  adjustments specified in calculationPeriodDatesAdjustments. The spread is a per annum
  rate, expressed as a decimal. For purposes of determining a calculation period amount,
  if positive the spread will be added to the floating rate and if negative the spread will
  be subtracted from the floating rate. A positive 10 basis point (0.1%) spread would
  be represented as 0.001.'

  <rateTreatment> RateTreatmentEnum </rateTreatment> [0..1]

  'The specification of any rate conversion which needs to be applied to the observed rate
  before being used in any calculations. The two common conversions are for securities quoted
  on a bank discount basis which will need to be converted to either a Money Market Yield or
  Bond Equivalent Yield. See the Annex to the 2000 ISDA Definitions, Section 7.3. Certain
  General Definitions Relating to Floating Rate Options, paragraphs (g) and (h) for
  definitions of these terms.'

  <capRateSchedule> StrikeSchedule </capRateSchedule> [0..*]

  'The cap rate or cap rate schedule, if any, which applies to the floating rate. The cap
  rate (strike) is only required where the floating rate on a swap stream is capped at a
  certain level. A cap rate schedule is expressed as explicit cap rates and dates and the
```

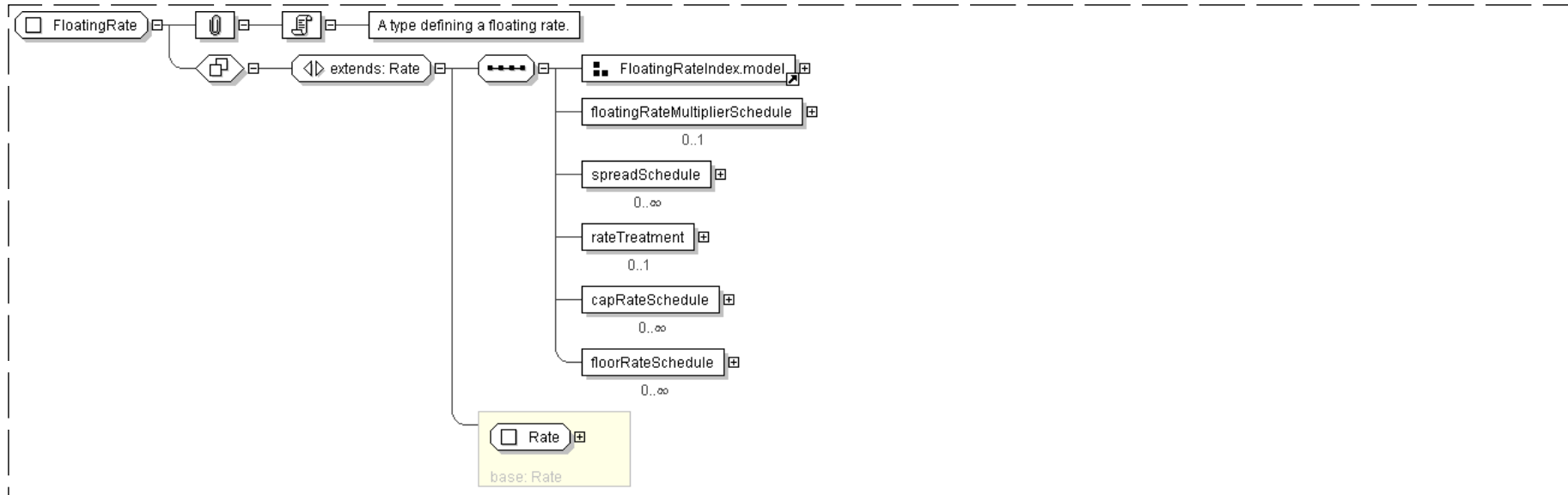
step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The cap rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'

```
<floorRateSchedule> StrikeSchedule </floorRateSchedule> [0..*]
```

'The floor rate or floor rate schedule, if any, which applies to the floating rate. The floor rate (strike) is only required where the floating rate on a swap stream is floored at a certain strike level. A floor rate schedule is expressed as explicit floor rates and dates and the step dates may be subject to adjustment in accordance with any adjustments specified in calculationPeriodDatesAdjustments. The floor rate is assumed to be exclusive of any spread and is a per annum rate, expressed as a decimal. A floor rate of 5% would be represented as 0.05.'

```
</...>
```

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="FloatingRate">
  <xsd:complexContent>
    <xsd:extension base="Rate">
      <xsd:sequence>
        <xsd:group ref="FloatingRateIndex.model"/>
        <xsd:element name="floatingRateMultiplierSchedule" type="Schedule" minOccurs="0"/>
        <xsd:element name="spreadSchedule" type="SpreadSchedule" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="rateTreatment" type="RateTreatmentEnum" minOccurs="0"/>
        <xsd:element name="capRateSchedule" type="StrikeSchedule" minOccurs="0"
          maxOccurs="unbounded"/>
        <xsd:element name="floorRateSchedule" type="StrikeSchedule"
          minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
  
```

Super-types:	<a href="#">Rate</a> < <a href="#">FloatingRate</a> (by extension) < <b>FloatingRateCalculation</b> (by extension)
Sub-types:	None
Name	FloatingRateCalculation
Used by (from the same schema document)	Complex Type <a href="#">InterestAccrualsMethod</a>
Abstract	no
Documentation	A type defining the floating rate and definitions relating to the calculation of floating rate amounts.

XML Instance Representation

<pre>&lt;... id=" xsd:ID [0..1]"&gt;   &lt;floatingRateIndex&gt; <a href="#">FloatingRateIndex</a> &lt;/floatingRateIndex&gt; [1]   &lt;indexTenor&gt; <a href="#">Period</a> &lt;/indexTenor&gt; [0..1]    'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'    &lt;floatingRateMultiplierSchedule&gt; <a href="#">Schedule</a> &lt;/floatingRateMultiplierSchedule&gt; [0..1]    'A rate multiplier or multiplier schedule to apply to the floating rate. A multiplier   schedule is expressed as explicit multipliers and dates. In the case of a schedule, the   step dates may be subject to adjustment in accordance with any adjustments specified in   the calculationPeriodDatesAdjustments. The multiplier can be a positive or negative   decimal. This element should only be included if the multiplier is not equal to 1 (one) for   the term of the stream.'    &lt;spreadSchedule&gt; <a href="#">SpreadSchedule</a> &lt;/spreadSchedule&gt; [0..*]    'The ISDA Spread or a Spread schedule expressed as explicit spreads and dates. In the case of   a schedule, the step dates may be subject to adjustment in accordance with any   adjustments specified in calculationPeriodDatesAdjustments. The spread is a per annum   rate, expressed as a decimal. For purposes of determining a calculation period amount,   if positive the spread will be added to the floating rate and if negative the spread will   be subtracted from the floating rate. A positive 10 basis point (0.1%) spread would   be represented as 0.001.'    &lt;rateTreatment&gt; <a href="#">RateTreatmentEnum</a> &lt;/rateTreatment&gt; [0..1]    'The specification of any rate conversion which needs to be applied to the observed rate   before being used in any calculations. The two common conversions are for securities quoted   on a bank discount basis which will need to be converted to either a Money Market Yield or   Bond Equivalent Yield. See the Annex to the 2000 ISDA Definitions, Section 7.3. Certain   General Definitions Relating to Floating Rate Options, paragraphs (g) and (h) for   definitions of these terms.'    &lt;capRateSchedule&gt; <a href="#">StrikeSchedule</a> &lt;/capRateSchedule&gt; [0..*]    'The cap rate or cap rate schedule, if any, which applies to the floating rate. The cap   rate (strike) is only required where the floating rate on a swap stream is capped at a   certain level. A cap rate schedule is expressed as explicit cap rates and dates and the   step dates may be subject to adjustment in accordance with any adjustments specified   in calculationPeriodDatesAdjustments. The cap rate is assumed to be exclusive of any spread   and is a per annum rate, expressed as a decimal. A cap rate of 5% would be represented as 0.05.'    &lt;floorRateSchedule&gt; <a href="#">StrikeSchedule</a> &lt;/floorRateSchedule&gt; [0..*]    'The floor rate or floor rate schedule, if any, which applies to the floating rate. The   floor rate (strike) is only required where the floating rate on a swap stream is floored at   a certain strike level. A floor rate schedule is expressed as explicit floor rates and   dates and the step dates may be subject to adjustment in accordance with any   adjustments specified in calculationPeriodDatesAdjustments. The floor rate is assumed to   be exclusive of any spread and is a per annum rate, expressed as a decimal. A floor rate of   5% would be represented as 0.05.'    &lt;initialRate&gt; xsd:decimal &lt;/initialRate&gt; [0..1]    'The initial floating rate reset agreed between the principal parties involved in the   trade. This is assumed to be the first required reset rate for the first regular   calculation period. It should only be included when the rate is not equal to the rate   published on the source implied by the floating rate index. An initial rate of 5% would   be represented as 0.05.'    &lt;finalRateRounding&gt; <a href="#">Rounding</a> &lt;/finalRateRounding&gt; [0..1]</pre>	
--	--

'The rounding convention to apply to the final rate used in determination of a calculation period amount.'

<averagingMethod> [AveragingMethodEnum](#) </averagingMethod> [0..1]

'If averaging is applicable, this component specifies whether a weighted or unweighted average method of calculation is to be used. The component must only be included when averaging applies.'

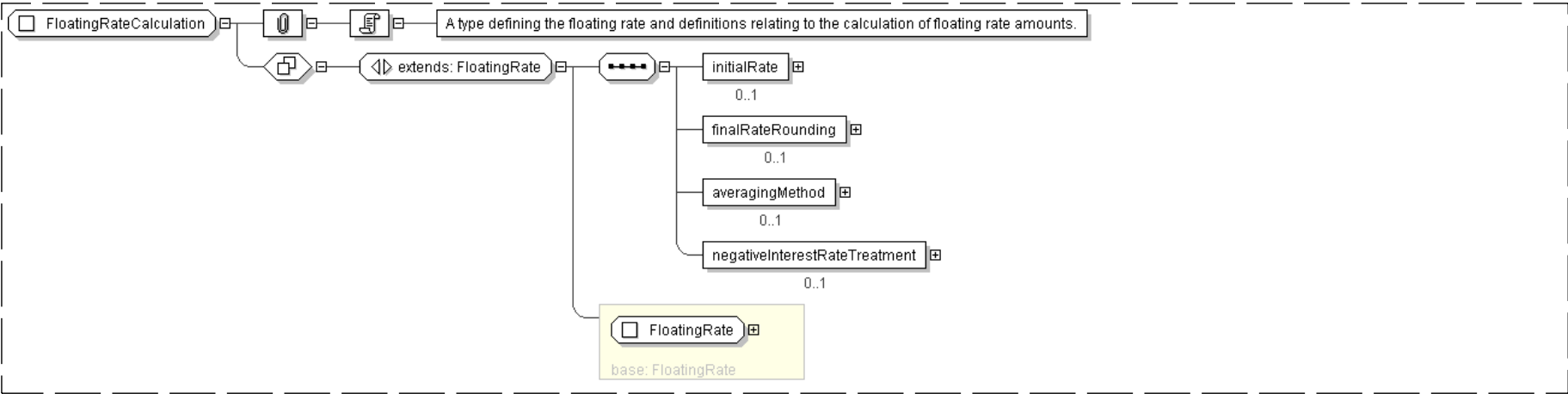
<negativeInterestRateTreatment> [NegativeInterestRateTreatmentEnum](#)

</negativeInterestRateTreatment> [0..1]

'The specification of any provisions for calculating payment obligations when a floating rate is negative (either due to a quoted negative floating rate or by operation of a spread that is subtracted from the floating rate).'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FloatingRateCalculation">
  <xsd:complexContent>
    <xsd:extension base="FloatingRate">
      <xsd:sequence>
        <xsd:element name="initialRate" type="xsd:decimal" minOccurs="0"/>
        <xsd:element name="finalRateRounding" type="Rounding" minOccurs="0"/>
        <xsd:element name="averagingMethod" type="AveragingMethodEnum" minOccurs="0"/>
        <xsd:element name="negativeInterestRateTreatment" type="NegativeInterestRateTreatmentEnum" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **FloatingRateIndex**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>FloatingRateIndex</b> (by extension)
Sub-types:	None

Name	FloatingRateIndex
Used by (from the same schema document)	Complex Type <a href="#">ForecastRateIndex</a> , Model Group <a href="#">FloatingRateIndex.model</a>
Abstract	no

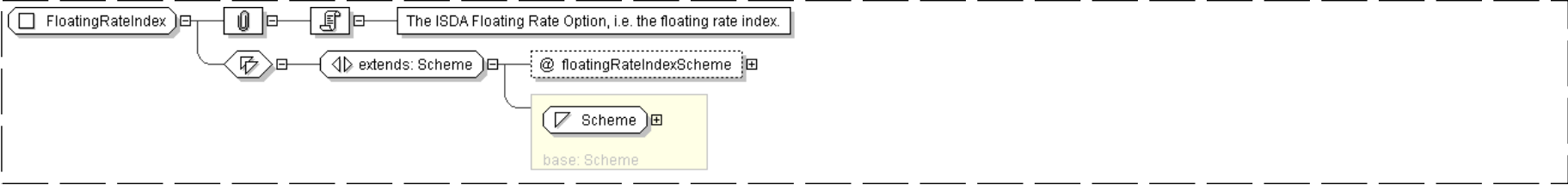
Documentation

The ISDA Floating Rate Option, i.e. the floating rate index.

XML Instance Representation

```
<...  
floatingRateIndexScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FloatingRateIndex">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme " >  
      <xsd:attribute name="floatingRateIndexScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/floating-rate-index"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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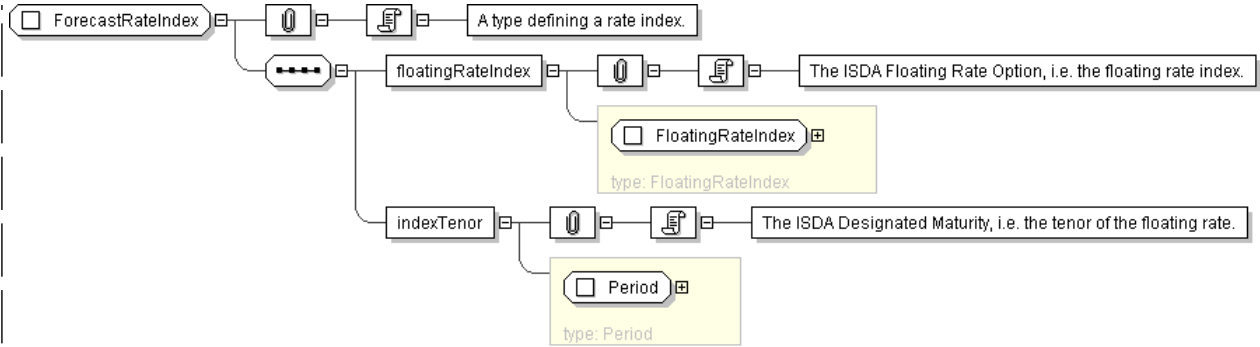
Complex Type: ForecastRateIndex

Super-types:	None
Sub-types:	None
Name	ForecastRateIndex
Abstract	no
Documentation	A type defining a rate index.

XML Instance Representation

```
<...>  
<floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]  
  'The ISDA Floating Rate Option, i.e. the floating rate index.'  
  
<indexTenor> Period </indexTenor> [1]  
  'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ForecastRateIndex">
  <xsd:sequence>
    <xsd:element name="floatingRateIndex" type="FloatingRateIndex" />
    <xsd:element name="indexTenor" type="Period" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Formula**

Super-types:	None
Sub-types:	None

Name	Formula
Used by (from the same schema document)	Complex Type <a href="#">FormulaComponent</a>
Abstract	no
Documentation	A type describing a financial formula, with its description and components.

XML Instance Representation

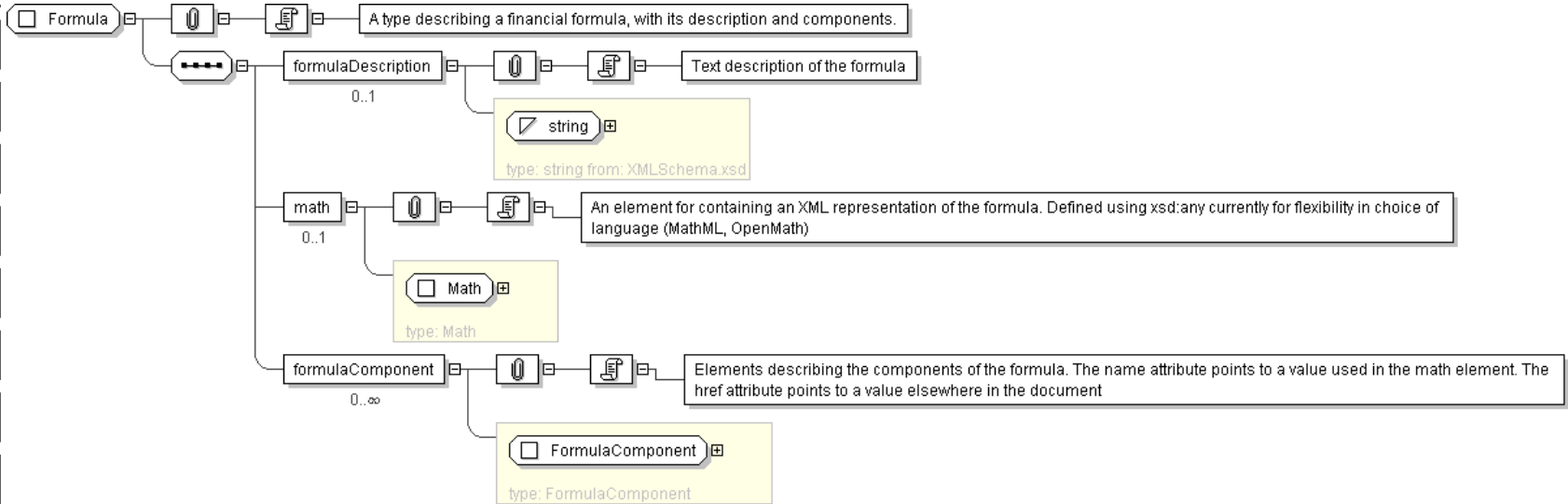
```
<...>
  <formulaDescription> xsd:string </formulaDescription> [0..1]
  'Text description of the formula'

  <math> Math </math> [0..1]
  'An element for containing an XML representation of the formula. Defined using xsd:
  any currently for flexibility in choice of language (MathML, OpenMath)'

  <formulaComponent> FormulaComponent </formulaComponent> [0..*]
  'Elements describing the components of the formula. The name attribute points to a value
  used in the math element. The href attribute points to a value elsewhere in the document'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Formula">
  <xsd:sequence>
    <xsd:element name="formulaDescription" type="xsd:string" minOccurs="0"/>
    <xsd:element name="math" type="Math" minOccurs="0"/>
    <xsd:element name="formulaComponent" type="FormulaComponent"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FormulaComponent**

Super-types:	None
Sub-types:	None
Name	FormulaComponent
Used by (from the same schema document)	Complex Type <a href="#">Formula</a>
Abstract	no
Documentation	Elements describing the components of the formula. The name attribute points to a value used in the math element. The href attribute points to a numeric value defined elsewhere in the document that is used by the formula component.

XML Instance Representation

```
<...
name=" xsd:normalizedString [0..1]"
href=" xsd:IDREF [0..1]"
'This attribute has been DEPRECATED. It will be removed in the next FpML major version.
Pointer to a numeric value defined elsewhere in the document that is used by the
formula component.'
```

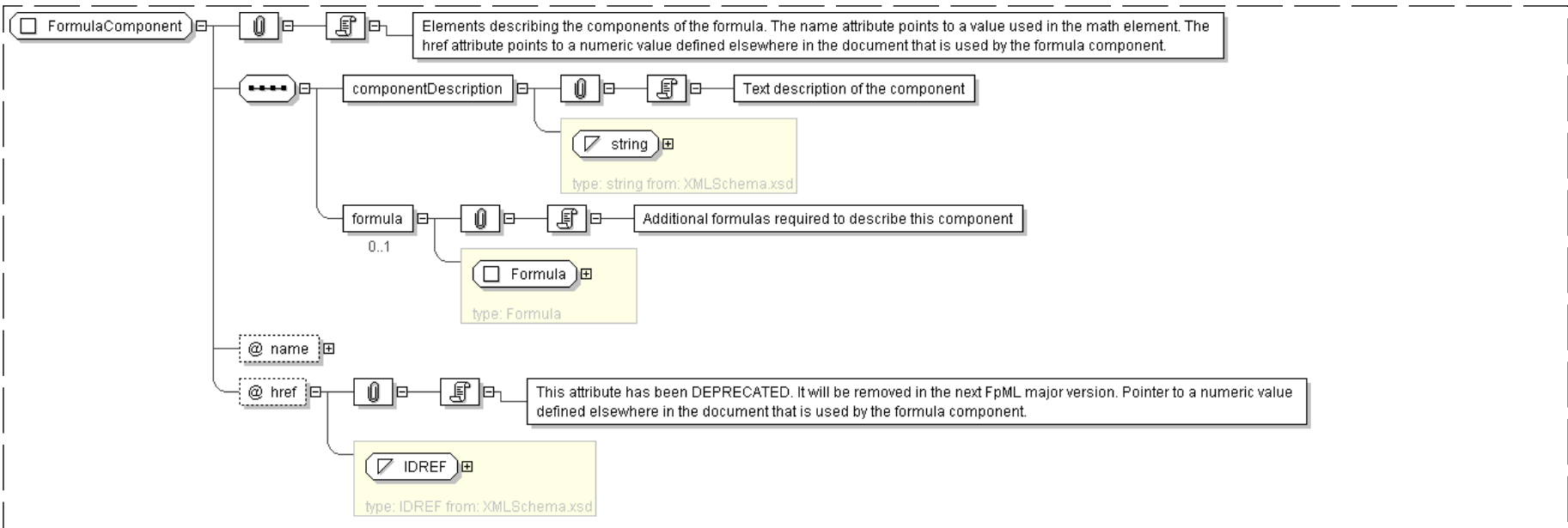
```
>
<componentDescription> xsd:string </componentDescription> [1]
'Text description of the component'

<formula> Formula </formula> [0..1]
'Additional formulas required to describe this component'
```



</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FormulaComponent">
  <xsd:sequence>
    <xsd:element name="componentDescription" type="xsd:string"/>
    <xsd:element name="formula" type="Formula" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="name" type="xsd:normalizedString"/>
  <xsd:attribute name="href" type="xsd>IDREF" deprecated="true" deprecatedReason="There was no definition on where this attribute should point at and no clear usage."/>
</xsd:complexType>
```

[top](#)

Complex Type: **Frequency**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">CalculationPeriodFrequency</a> (by extension)</li><li><a href="#">ResetFrequency</a> (by extension)</li></ul>

Name	Frequency
Abstract	no
Documentation	A type defining a time frequency, e.g. one day, three months. Used for specifying payment or calculation frequencies at which the value T (Term) is applicable.

XML Instance Representation

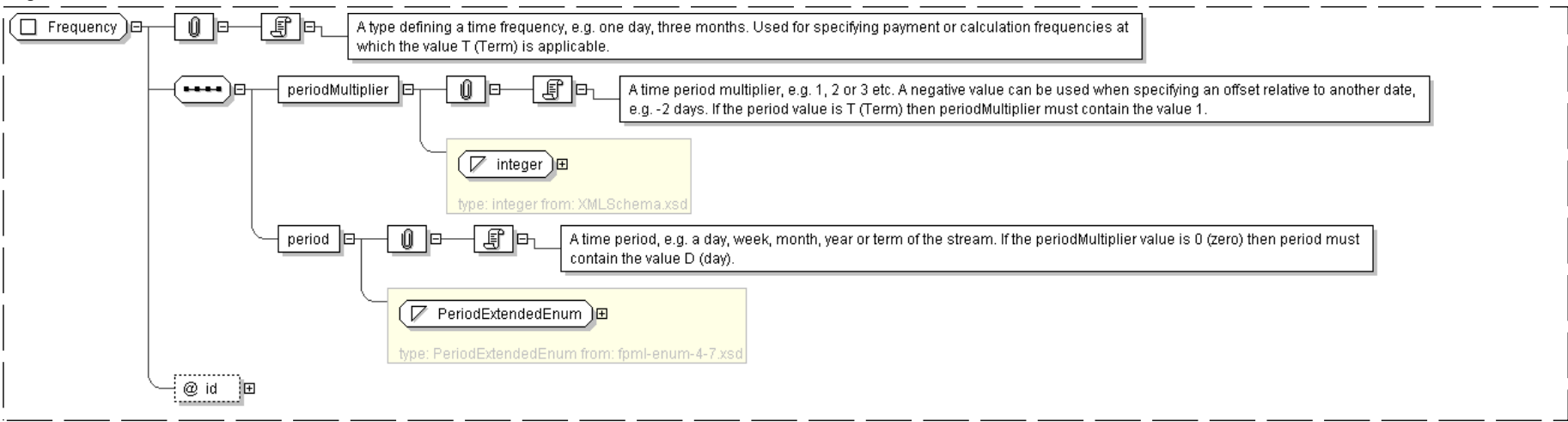
```
<...
id="xsd:ID [0..1]">
  <periodMultiplier xsd:integer </periodMultiplier> [1]
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying an offset relative to another date, e.g. -2 days. If the period value is T (Term) then periodMultiplier must contain the value 1.'
```

```
<period> PeriodExtendedEnum </period> [1]
```

'A time period, e.g. a day, week, month, year or term of the stream. If the `periodMultiplier` value is 0 (zero) then period must contain the value D (day).'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="Frequency">
  <xsd:sequence>
    <xsd:element name="periodMultiplier" type="xsd:integer" />
    <xsd:element name="period" type="PeriodExtendedEnum" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **FutureValueAmount**

Super-types:	<a href="#">MoneyBase</a> < <a href="#">NonNegativeMoney</a> (by extension) < <b>FutureValueAmount</b> (by extension)
Sub-types:	None

Name	FutureValueAmount
Abstract	no
Documentation	A type defining a currency amount as at a future value date.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

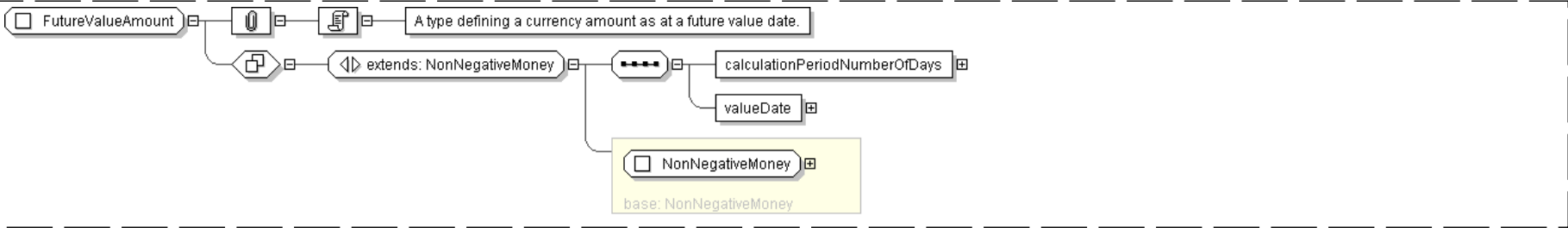
  <amount> NonNegativeDecimal </amount> [1]
  'The non negative monetary quantity in currency units.'

  <calculationPeriodNumberOfDays> xsd:positiveInteger </calculationPeriodNumberOfDays> [1]
  'The number of days from the adjusted calculation period start date to the adjusted value
  date, calculated in accordance with the applicable day count fraction.'
```

```
<valueDate> xsd:date </valueDate> [1]
'Adjusted value date of the future value amount.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FutureValueAmount">
  <xsd:complexContent>
    <xsd:extension base="NonNegativeMoney">
      <xsd:sequence>
        <xsd:element name="calculationPeriodNumberOfDays" type="xsd:positiveInteger"/>
        <xsd:element name="valueDate" type="xsd:date"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxCashSettlement**

Super-types:	None
Sub-types:	None

Name	FxCashSettlement
Abstract	no
Documentation	A type that is used for describing cash settlement of an option / non deliverable forward. It includes the currency to settle into together with the fixings required to calculate the currency amount.

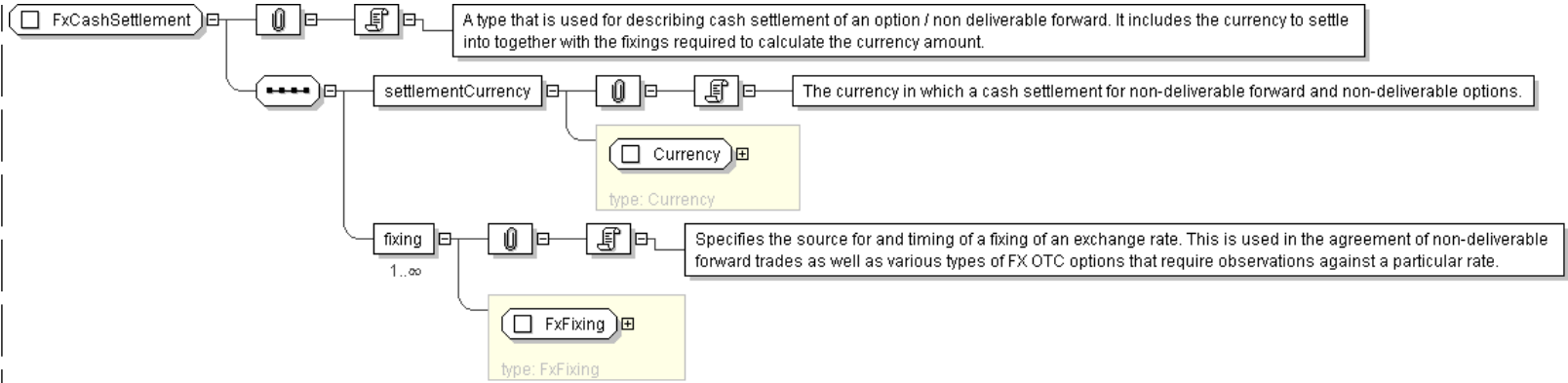
XML Instance Representation

```
<...>
  <settlementCurrency> Currency </settlementCurrency> [1]
  'The currency in which a cash settlement for non-deliverable forward and non-
  deliverable options.'
```

```
  <fixing> FxFixing </fixing> [1..*]
  'Specifies the source for and timing of a fixing of an exchange rate. This is used in
  the agreement of non-deliverable forward trades as well as various types of FX OTC options
  that require observations against a particular rate.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxCashSettlement">
  <xsd:sequence>
    <xsd:element name="settlementCurrency" type="Currency" />
    <xsd:element name="fixing" type="FxFixing" maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **FxFixing**

Super-types:	<a href="#">FxSpotRateSource</a> < <b>FxFixing</b> (by extension)
Sub-types:	None

Name	FxFixing
Used by (from the same schema document)	Complex Type <a href="#">FxCashSettlement</a>
Abstract	no
Documentation	A type that specifies the source for and timing of a fixing of an exchange rate. This is used in the agreement of non-deliverable forward trades as well as various types of FX OTC options that require observations against a particular rate.

XML Instance Representation

```
<...>
<primaryRateSource> InformationSource </primaryRateSource> [1]
  'The primary source for where the rate observation will occur. Will typically be either a
  page or a reference bank published rate.'
```

```
<secondaryRateSource> InformationSource </secondaryRateSource> [0..1]
  'An alternative, or secondary, source for where the rate observation will occur. Will
  typically be either a page or a reference bank published rate.'
```

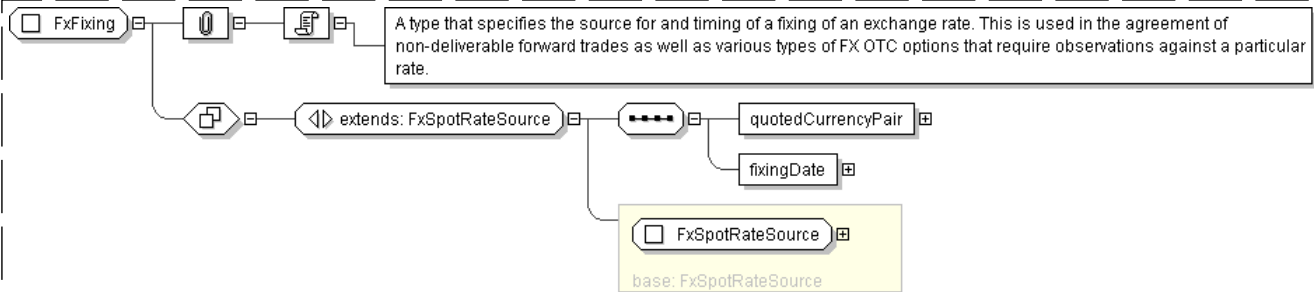
```
<fixingTime> BusinessCenterTime </fixingTime> [1]
  'The time at which the spot currency exchange rate will be observed. It is specified as a
  time in a specific business center, e.g. 11:00am London time.'
```

```
<quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
  'Defines the two currencies for an FX trade and the quotation relationship between the
  two currencies.'
```

```
<fixingDate> xsd:date </fixingDate> [1]
  'Describes the specific date when a non-deliverable forward or non-deliverable option will
  \"fix\" against a particular rate, which will be used to compute the ultimate cash settlement.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="FxFixing">
  <xsd:complexContent>
    <xsd:extension base=" FxSpotRateSource ">
      <xsd:sequence>
        <xsd:element name="quotedCurrencyPair" type=" QuotedCurrencyPair " />
        <xsd:element name="fixingDate" type=" xsd:date " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **FxRate**

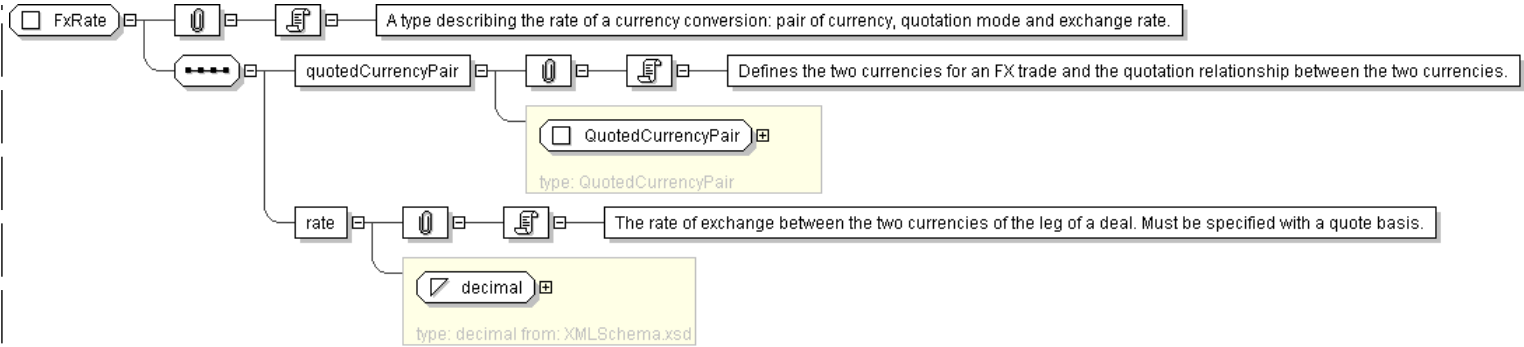
Super-types:	None
Sub-types:	None
Name	FxRate
Abstract	no
Documentation	A type describing the rate of a currency conversion: pair of currency, quotation mode and exchange rate.

XML Instance Representation

```
<...>
  <quotedCurrencyPair> QuotedCurrencyPair </quotedCurrencyPair> [1]
  'Defines the two currencies for an FX trade and the quotation relationship between the
  two currencies.'

  <rate> xsd:decimal </rate> [1]
  'The rate of exchange between the two currencies of the leg of a deal. Must be specified with
  a quote basis.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxRate">
  <xsd:sequence>
    <xsd:element name="quotedCurrencyPair" type=" QuotedCurrencyPair " />
    <xsd:element name="rate" type=" xsd:decimal " />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **FxSpotRateSource**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">FxFixing</a> (by extension)</li></ul>
Name	FxSpotRateSource
Abstract	no
Documentation	A type defining the source and time for an fx rate.

XML Instance Representation

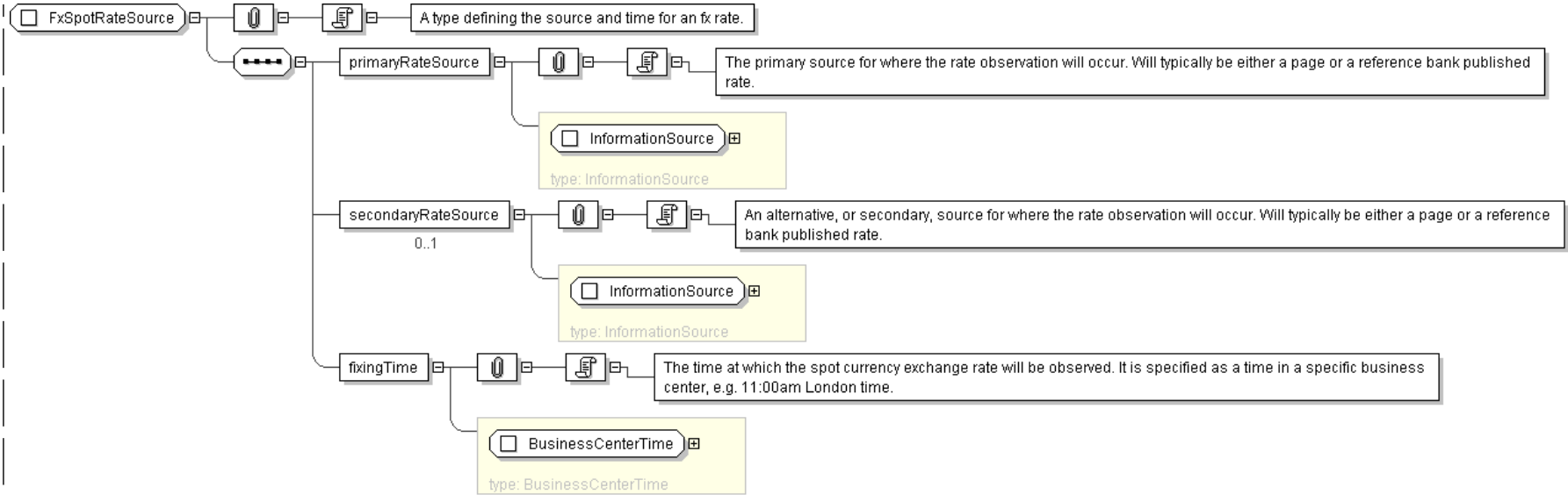
```
<...>
<primaryRateSource> InformationSource </primaryRateSource> [1]
'The primary source for where the rate observation will occur. Will typically be either a
page or a reference bank published rate.'

<secondaryRateSource> InformationSource </secondaryRateSource> [0..1]
'An alternative, or secondary, source for where the rate observation will occur. Will
typically be either a page or a reference bank published rate.'

<fixingTime> BusinessCenterTime </fixingTime> [1]
'The time at which the spot currency exchange rate will be observed. It is specified as a
time in a specific business center, e.g. 11:00am London time.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="FxSpotRateSource">
  <xsd:sequence>
    <xsd:element name="primaryRateSource" type=" InformationSource " />
    <xsd:element name="secondaryRateSource" type=" InformationSource " minOccurs="0"/>
    <xsd:element name="fixingTime" type=" BusinessCenterTime " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

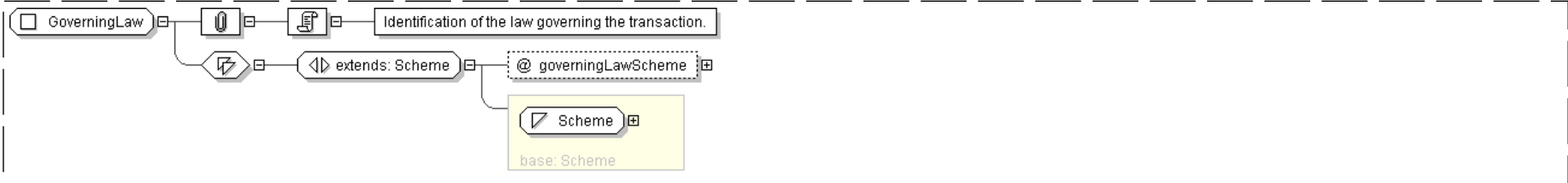
Complex Type: **GoverningLaw**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>GoverningLaw</b> (by extension)
Sub-types:	None
Name	GoverningLaw
Abstract	no
Documentation	Identification of the law governing the transaction.

XML Instance Representation

```
<...
governingLawScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="GoverningLaw">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="governingLawScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/governing-law" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: IdentifiedCurrency

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <a href="#">Currency</a> (by extension) < <b>IdentifiedCurrency</b> (by extension)
Sub-types:	None

Name	IdentifiedCurrency
Abstract	no
Documentation	Specifies Currency with ID attribute.

XML Instance Representation

```
<...
currencyScheme=" xsd:anyURI [0..1]"
id=" xsd:ID [0..1]">
  Currency
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IdentifiedCurrency">
  <xsd:simpleContent>
    <xsd:extension base=" Currency " >
      <xsd:attribute name="id" type=" xsd:ID " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: IdentifiedCurrencyReference

Super-types:	<a href="#">Reference</a> < <b>IdentifiedCurrencyReference</b> (by extension)
Sub-types:	None

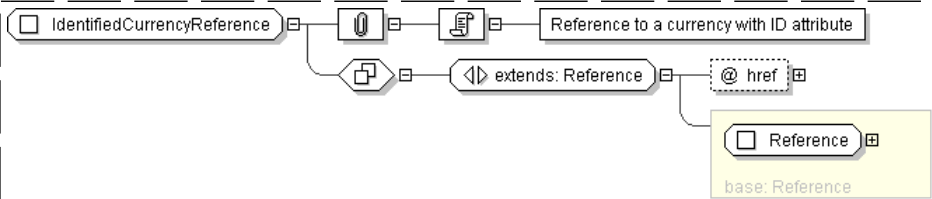
Name	IdentifiedCurrencyReference
Abstract	no
Documentation	Reference to a currency with ID attribute



XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]"/>  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IdentifiedCurrencyReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " >  
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="IdentifiedCurrency"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: IdentifiedDate

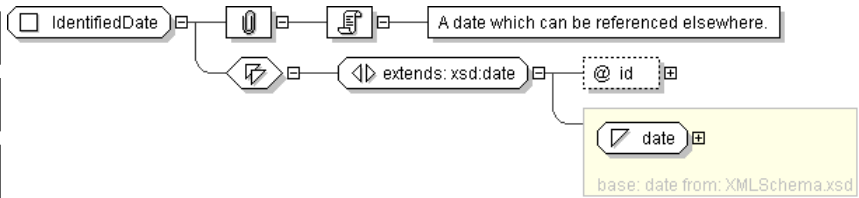
Super-types:	<a href="#">xsd:date</a> < <b>IdentifiedDate</b> (by extension)
Sub-types:	None

Name	IdentifiedDate
Used by (from the same schema document)	Complex Type <a href="#">AdjustableDate</a> , Complex Type <a href="#">AdjustableDate2</a> , Complex Type <a href="#">AdjustableDates</a> , Complex Type <a href="#">AdjustableOrRelativeAndAdjustedDate</a> , Complex Type <a href="#">Payment</a> , Model Group <a href="#">VersionHistory.model</a>
Abstract	no
Documentation	A date which can be referenced elsewhere.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    xsd:date  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IdentifiedDate">  
  <xsd:simpleContent>  
    <xsd:extension base=" xsd:date " >  
      <xsd:attribute name="id" type=" xsd:ID "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

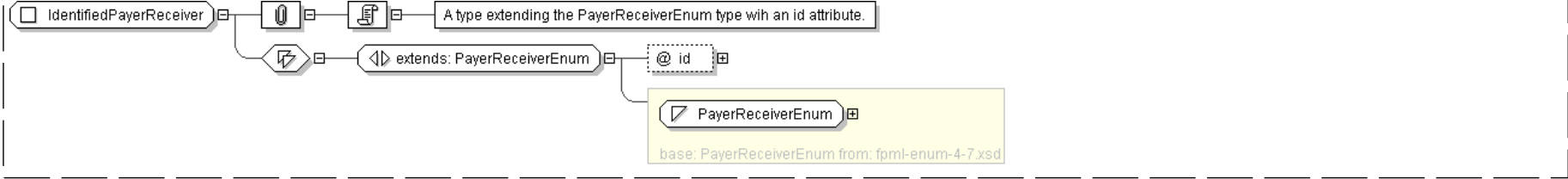
Complex Type: **IdentifiedPayerReceiver**

Super-types:	<a href="#">PayerReceiverEnum</a> < <b>IdentifiedPayerReceiver</b> (by extension)
Sub-types:	None
Name	IdentifiedPayerReceiver
Used by (from the same schema document)	Complex Type <a href="#">Strike</a> , Complex Type <a href="#">Strike</a> , Complex Type <a href="#">StrikeSchedule</a> , Complex Type <a href="#">StrikeSchedule</a>
Abstract	no
Documentation	A type extending the PayerReceiverEnum type wih an id attribute.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  PayerReceiverEnum  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="IdentifiedPayerReceiver">  
  <xsd:simpleContent>  
    <xsd:extension base=" PayerReceiverEnum ">  
      <xsd:attribute name="id" type=" xsd:ID "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

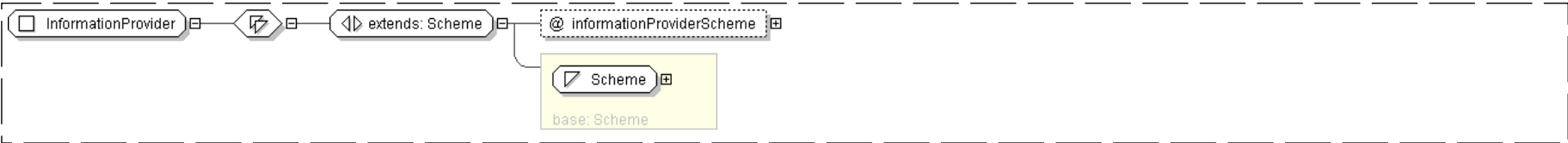
Complex Type: **InformationProvider**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>InformationProvider</b> (by extension)
Sub-types:	None
Name	InformationProvider
Used by (from the same schema document)	Complex Type <a href="#">InformationSource</a>
Abstract	no

XML Instance Representation

```
<...  
informationProviderScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InformationProvider">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="informationProviderScheme" type=" xsd:anyURI " default="http://www.
        fpml.org/coding-scheme/information-provider"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: InformationSource

Super-types:	None
Sub-types:	None

Name	InformationSource
Used by (from the same schema document)	Complex Type <a href="#">FxSpotRateSource</a> , Complex Type <a href="#">FxSpotRateSource</a> , Complex Type <a href="#">SettlementRateSource</a>
Abstract	no
Documentation	A type defining the source for a piece of information (e.g. a rate refix or an fx fixing).

XML Instance Representation

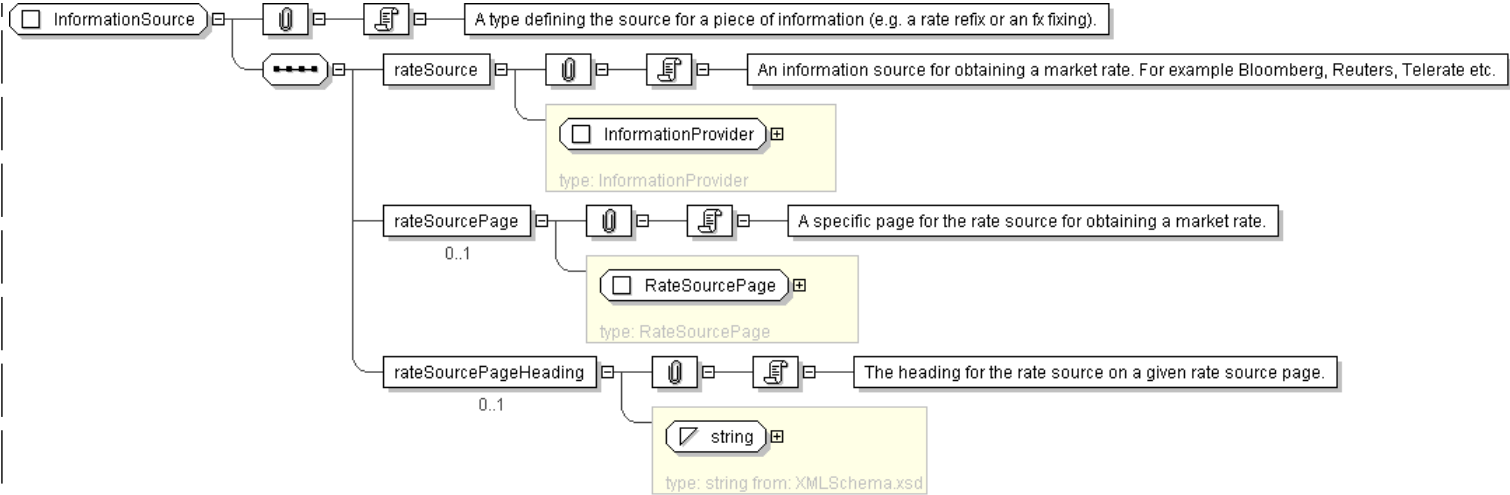
```
<...>
  <rateSource> InformationProvider </rateSource> [1]
  'An information source for obtaining a market rate. For example Bloomberg, Reuters,
  Telerate etc.'

  <rateSourcePage> RateSourcePage </rateSourcePage> [0..1]
  'A specific page for the rate source for obtaining a market rate.'

  <rateSourcePageHeading> xsd:string </rateSourcePageHeading> [0..1]
  'The heading for the rate source on a given rate source page.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InformationSource">
  <xsd:sequence>
    <xsd:element name="rateSource" type="InformationProvider"/>
    <xsd:element name="rateSourcePage" type="RateSourcePage" minOccurs="0"/>
    <xsd:element name="rateSourcePageHeading" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **InstrumentId**

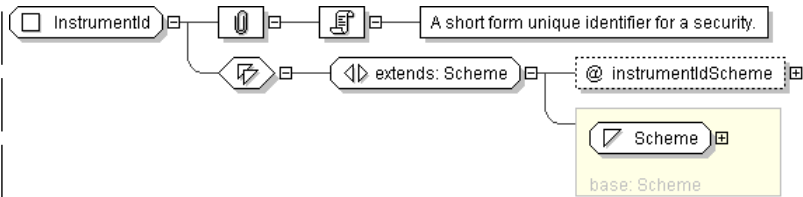
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>InstrumentId</b> (by extension)
Sub-types:	None

Name	InstrumentId
Abstract	no
Documentation	A short form unique identifier for a security.

XML Instance Representation

```
<...
instrumentIdScheme="xsd:anyURI [1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InstrumentId">
```

```
<xsd:simpleContent>
  <xsd:extension base=" Scheme " >
    <xsd:attribute name="instrumentIdScheme" type=" xsd:anyURI " use="required"/>
  </xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **InterestAccrualsCompoundingMethod**

Super-types:	<a href="#">InterestAccrualsMethod</a> < <b>InterestAccrualsCompoundingMethod</b> (by extension)
Sub-types:	None
Name	InterestAccrualsCompoundingMethod
Abstract	no
Documentation	A type defining the way in which interests are accrued: the applicable rate (fixed or floating reference) and the compounding method.

XML Instance Representation

<...>

Start Choice [1]

<floatingRateCalculation> [FloatingRateCalculation](#) </floatingRateCalculation> [1]

'The floating rate calculation definitions'

<fixedRate> [xsd:decimal](#) </fixedRate> [1]

'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate of 5% would be represented as 0.05.'

End Choice

Start Sequence [0..1]

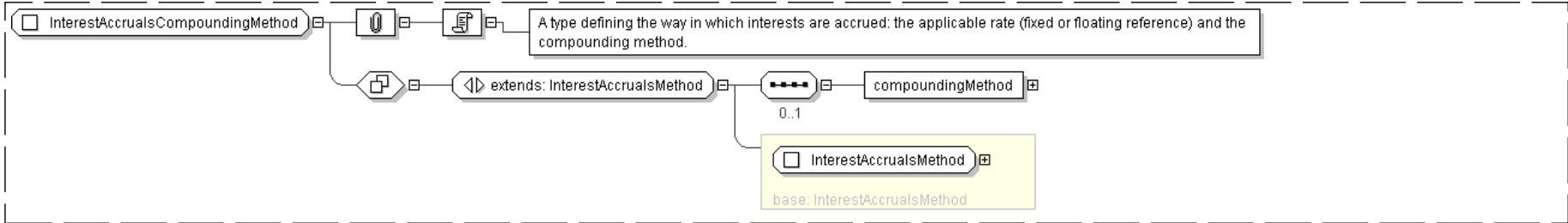
<compoundingMethod> [CompoundingMethodEnum](#) </compoundingMethod> [1]

'If more that one calculation period contributes to a single payment amount this element specifies whether compounding is applicable, and if so, what compounding method is to be used. This element must only be included when more that one calculation period contributes to a single payment amount.'

End Sequence

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestAccrualsCompoundingMethod">
  <xsd:complexContent>
    <xsd:extension base=" InterestAccrualsMethod " >
      <xsd:sequence minOccurs="0">
        <xsd:element name="compoundingMethod" type=" CompoundingMethodEnum " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: **InterestAccrualsMethod**

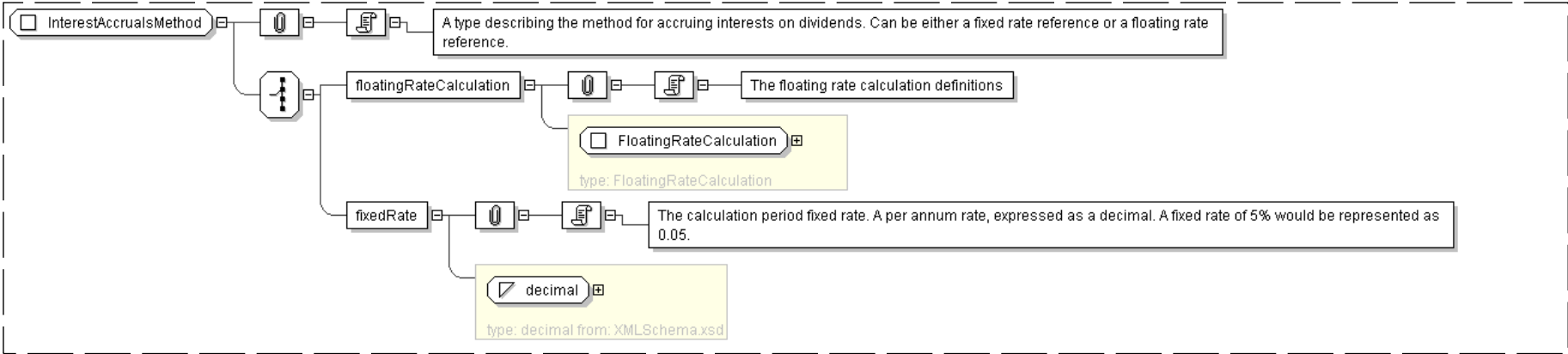
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">InterestAccrualsCompoundingMethod</a> (by extension)</li></ul>
Name	InterestAccrualsMethod
Abstract	no
Documentation	A type describing the method for accruing interests on dividends. Can be either a fixed rate reference or a floating rate reference.

XML Instance Representation

```
<...>
Start Choice [1]
  <floatingRateCalculation> FloatingRateCalculation </floatingRateCalculation> [1]
  'The floating rate calculation definitions'

  <fixedRate> xsd:decimal </fixedRate> [1]
  'The calculation period fixed rate. A per annum rate, expressed as a decimal. A fixed rate
  of 5% would be represented as 0.05.'
End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterestAccrualsMethod">
  <xsd:choice>
    <xsd:element name="floatingRateCalculation" type=" FloatingRateCalculation "/>
    <xsd:element name="fixedRate" type=" xsd:decimal "/>
  </xsd:choice>
</xsd:complexType>
```

Complex Type: **IntermediaryInformation**

Super-types:	None
Sub-types:	None

Name	IntermediaryInformation
Used by (from the same schema document)	Complex Type <a href="#">SettlementInstruction</a>
Abstract	no
Documentation	A type that describes the information to identify an intermediary through which payment will be made by the correspondent bank to the ultimate beneficiary of the funds.

XML Instance Representation

<...>

Start [Choice](#) [1]

<routingIds> [RoutingIds](#) </routingIds> [1]

'A set of unique identifiers for a party, eachone identifying the party within a payment system. The assumption is that each party will not have more than one identifier within the same payment system.'

<routingExplicitDetails> [RoutingExplicitDetails](#) </routingExplicitDetails> [1]

'A set of details that is used to identify a party involved in the routing of a payment when the party does not have a code that identifies it within one of the recognized payment systems.'

<routingIdsAndExplicitDetails> [RoutingIdsAndExplicitDetails](#) </routingIdsAndExplicitDetails> [1]

'A combination of coded payment system identifiers and details for physical addressing for a party involved in the routing of a payment.'

End Choice

<intermediarySequenceNumber> [xsd:positiveInteger](#) </intermediarySequenceNumber> [1]

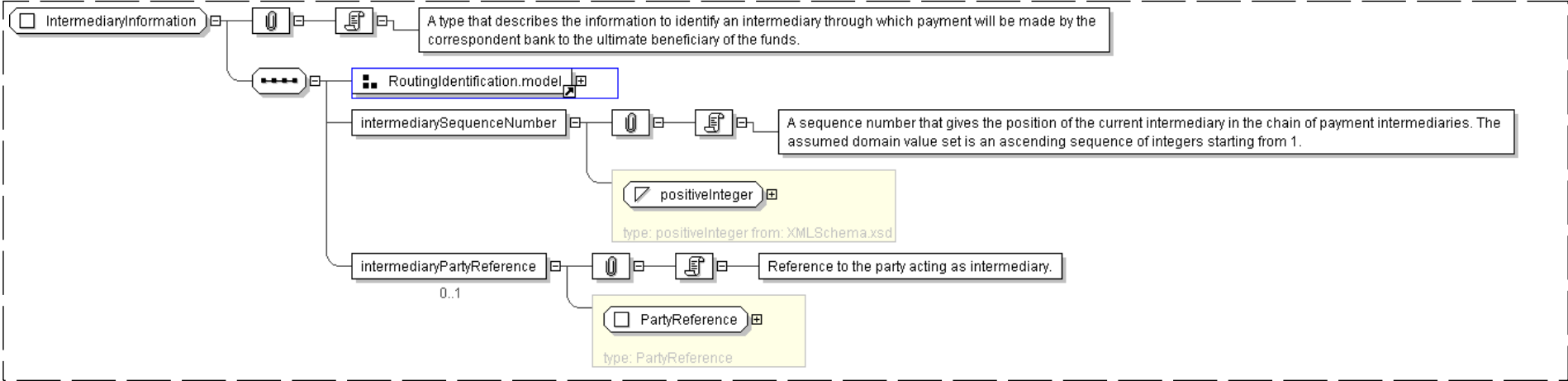
'A sequence number that gives the position of the current intermediary in the chain of payment intermediaries. The assumed domain value set is an ascending sequence of integers starting from 1.'

<intermediaryPartyReference> [PartyReference](#) </intermediaryPartyReference> [0..1]

'Reference to the party acting as intermediary.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="IntermediaryInformation">
  <xsd:sequence>
    <xsd:group ref=" RoutingIdentification.model " />
    <xsd:element name="intermediarySequenceNumber" type=" xsd:positiveInteger " />
    <xsd:element name="intermediaryPartyReference" type=" PartyReference " minOccurs="0" />
  </xsd:sequence>
</complexType>
```

Complex Type: **InterpolationMethod**

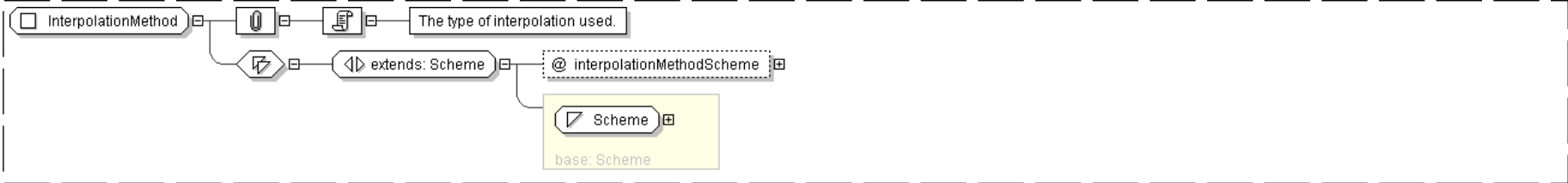
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>InterpolationMethod</b> (by extension)
Sub-types:	None

Name	InterpolationMethod
Abstract	no
Documentation	The type of interpolation used.

XML Instance Representation

```
<...  
  interpolationMethodScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="InterpolationMethod">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="interpolationMethodScheme" type=" xsd:anyURI " default="http://www.  
        fpml.org/coding-scheme/interpolation-method"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: **Leg**

Super-types:	None
Sub-types:	None

Name	Leg
Abstract	yes
Documentation	A supertype of leg. All swap legs extend this type.

XML Instance Representation

```
<.../>
```

Diagram





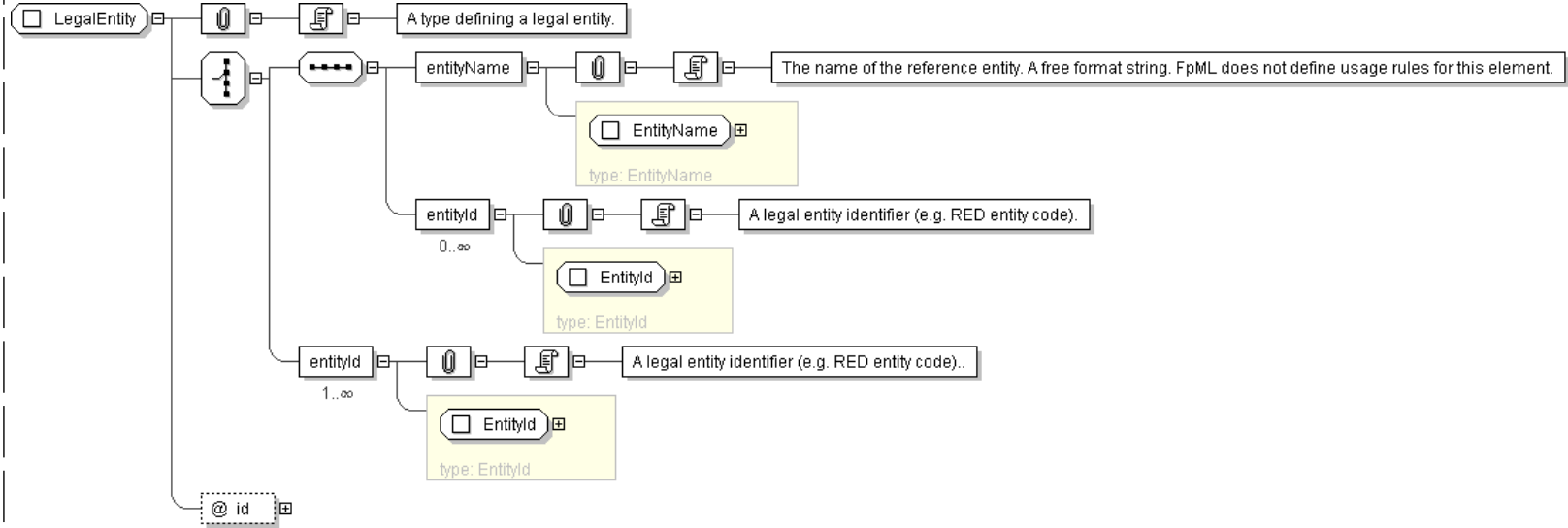
Complex Type: LegalEntity

Super-types:	None
Sub-types:	None
Name	LegalEntity
Abstract	no
Documentation	A type defining a legal entity.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  Start Choice [1]  
    <entityName> EntityName </entityName> [1]  
    'The name of the reference entity. A free format string. FpML does not define usage rules  
    for this element.'  
  
    <entityId> EntityId </entityId> [0..*]  
    'A legal entity identifier (e.g. RED entity code)..'  
  
    <entityId> EntityId </entityId> [1..*]  
    'A legal entity identifier (e.g. RED entity code)..'  
  
  End Choice  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LegalEntity">  
  <xsd:choice>  
    <xsd:sequence>
```

```
<xsd:element name="entityName" type=" EntityName " />
<xsd:element name="entityId" type=" EntityId " minOccurs="0" maxOccurs="unbounded" />
</xsd:sequence>
<xsd:element name="entityId" type=" EntityId " maxOccurs="unbounded" />
</xsd:choice>
<xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: LegalEntityReference

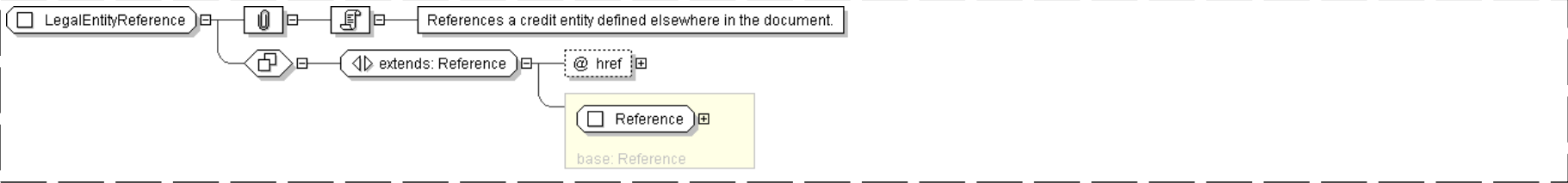
Super-types:	<a href="#">Reference</a> < <b>LegalEntityReference</b> (by extension)
Sub-types:	None

Name	LegalEntityReference
Abstract	no
Documentation	References a credit entity defined elsewhere in the document.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="LegalEntityReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="LegalEntity" />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: MainPublication

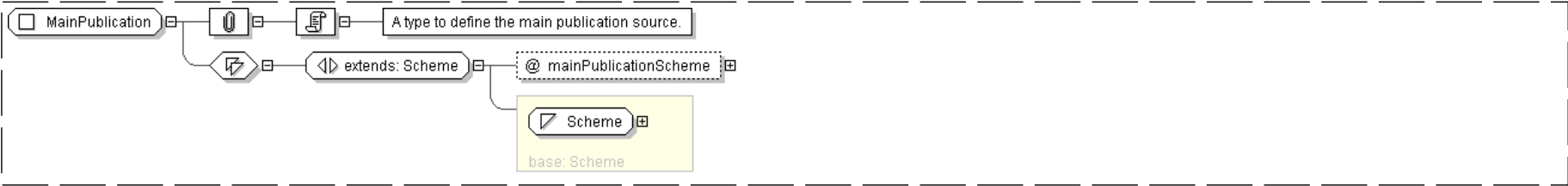
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MainPublication</b> (by extension)
Sub-types:	None

Name	MainPublication
Abstract	no
Documentation	A type to define the main publication source.

XML Instance Representation

```
<...
mainPublicationScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MainPublication">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="mainPublicationScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/inflation-main-publication"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: ManualExercise

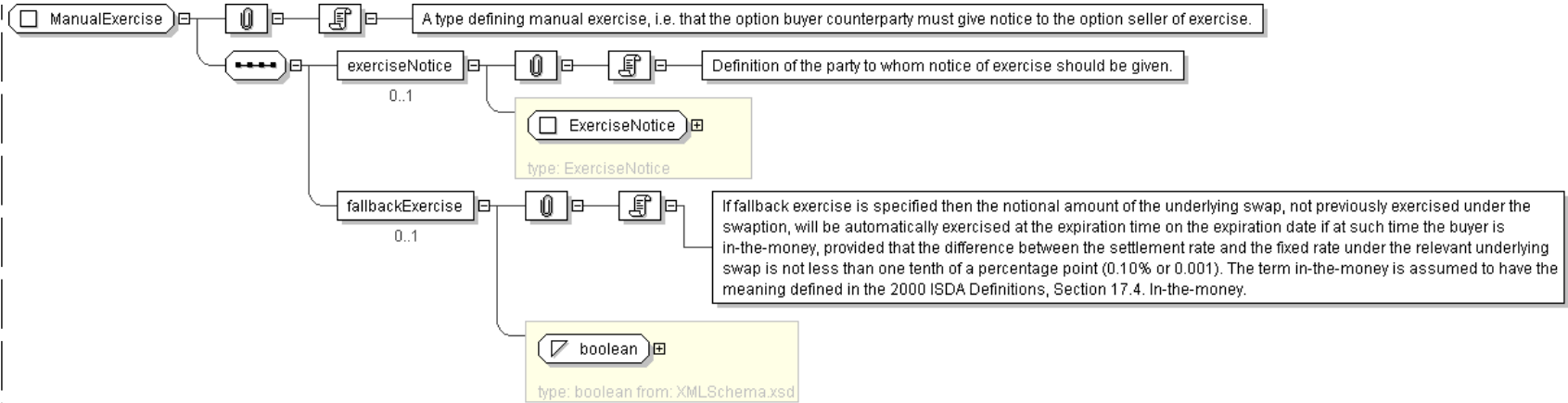
Super-types:	None
Sub-types:	None
Name	ManualExercise
Used by (from the same schema document)	Complex Type <a href="#">ExerciseProcedure</a>
Abstract	no
Documentation	A type defining manual exercise, i.e. that the option buyer counterparty must give notice to the option seller of exercise.

XML Instance Representation

```
<...>
  <exerciseNotice> ExerciseNotice </exerciseNotice> [0..1]
  'Definition of the party to whom notice of exercise should be given.'

  <fallbackExercise> xsd:boolean </fallbackExercise> [0..1]
  'If fallback exercise is specified then the notional amount of the underlying swap,
  not previously exercised under the swaption, will be automatically exercised at the
  expiration time on the expiration date if at such time the buyer is in-the-money, provided
  that the difference between the settlement rate and the fixed rate under the
  relevant underlying swap is not less than one tenth of a percentage point (0.10% or 0.001).
  The term in-the-money is assumed to have the meaning defined in the 2000 ISDA
  Definitions, Section 17.4. In-the-money.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ManualExercise">
  <xsd:sequence>
    <xsd:element name="exerciseNotice" type=" ExerciseNotice " minOccurs="0"/>
    <xsd:element name="fallbackExercise" type=" xsd:boolean " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: MasterAgreement

Super-types:	None
Sub-types:	None
Name	MasterAgreement
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	An entity for defining the agreement executed between the parties and intended to govern all OTC derivatives transactions between those parties.

XML Instance Representation

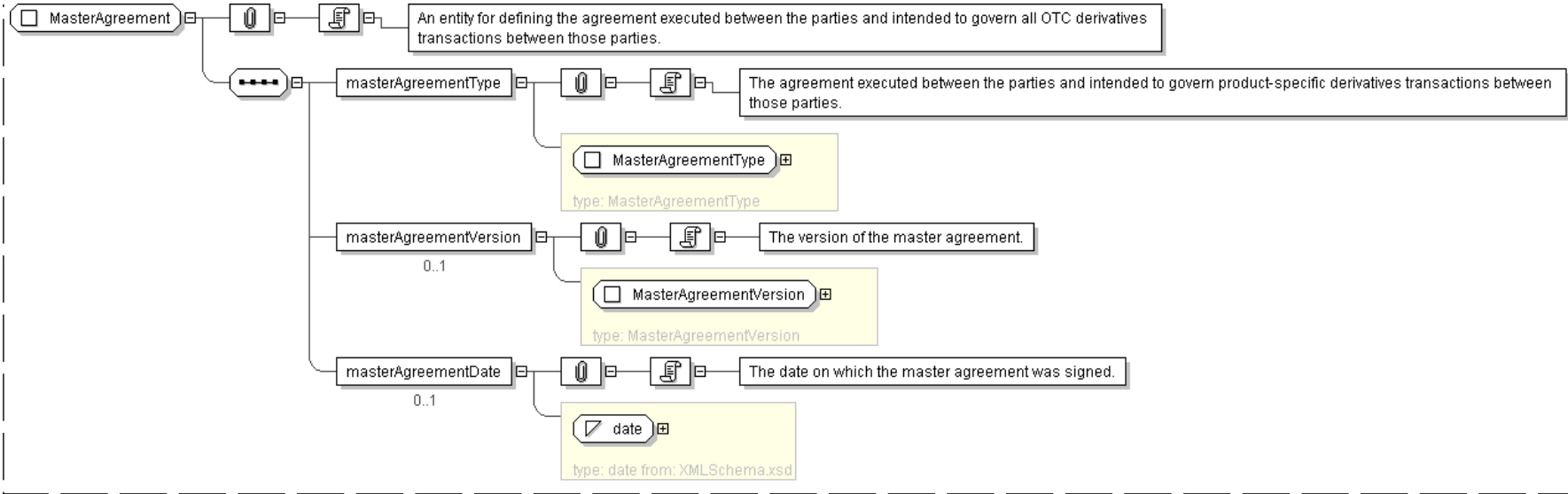
```
<...>
  <masterAgreementType> MasterAgreementType </masterAgreementType> [1]
  'The agreement executed between the parties and intended to govern product-specific
  derivatives transactions between those parties.'

  <masterAgreementVersion> MasterAgreementVersion </masterAgreementVersion> [0..1]
  'The version of the master agreement.'

  <masterAgreementDate> xsd:date </masterAgreementDate> [0..1]
  'The date on which the master agreement was signed.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MasterAgreement">
  <xsd:sequence>
    <xsd:element name="masterAgreementType" type=" MasterAgreementType " />
    <xsd:element name="masterAgreementVersion" type=" MasterAgreementVersion " minOccurs="0"/>
    <xsd:element name="masterAgreementDate" type=" xsd:date " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **MasterAgreementType**

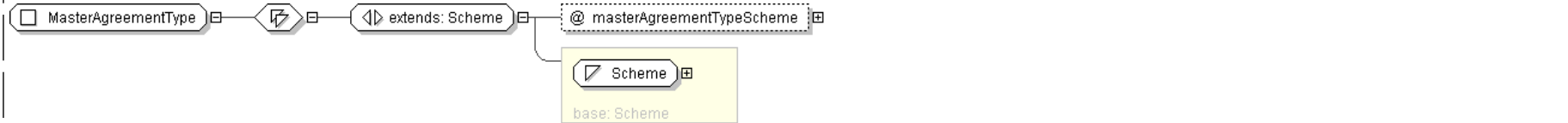
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MasterAgreementType</b> (by extension)
Sub-types:	None

Name	MasterAgreementType
Used by (from the same schema document)	Complex Type <a href="#">MasterAgreement</a>
Abstract	no

XML Instance Representation

```
<...
masterAgreementTypeScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MasterAgreementType">
```

```
<xsd:simpleContent>
  <xsd:extension base=" Scheme " >
    <xsd:attribute name="masterAgreementTypeScheme" type=" xsd:anyURI " default="http://www.
      fpml.org/coding-scheme/master-agreement-type"/>
  </xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MasterAgreementVersion**

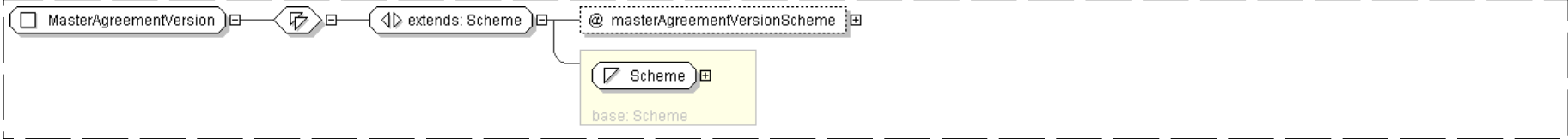
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MasterAgreementVersion</b> (by extension)
Sub-types:	None

Name	MasterAgreementVersion
Used by (from the same schema document)	Complex Type <a href="#">MasterAgreement</a>
Abstract	no

XML Instance Representation

```
<...
masterAgreementVersionScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MasterAgreementVersion">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="masterAgreementVersionScheme" type=" xsd:anyURI " default="http://www.
        fpml.org/coding-scheme/master-agreement-version"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **MasterConfirmation**

Super-types:	None
Sub-types:	None

Name	MasterConfirmation
Used by (from the same schema document)	Complex Type <a href="#">Documentation</a>
Abstract	no
Documentation	An entity for defining the master confirmation agreement executed between the parties.

XML Instance Representation

```
<...>
<masterConfirmationType> MasterConfirmationType </masterConfirmationType> [1]
  ...
</...>
```

'The type of master confirmation executed between the parties.'

```
<masterConfirmationDate> xsd:date </masterConfirmationDate> [1]
```

'The date of the confirmation executed between the parties and intended to govern all relevant transactions between those parties.'

```
<masterConfirmationAnnexDate> xsd:date </masterConfirmationAnnexDate> [0..1]
```

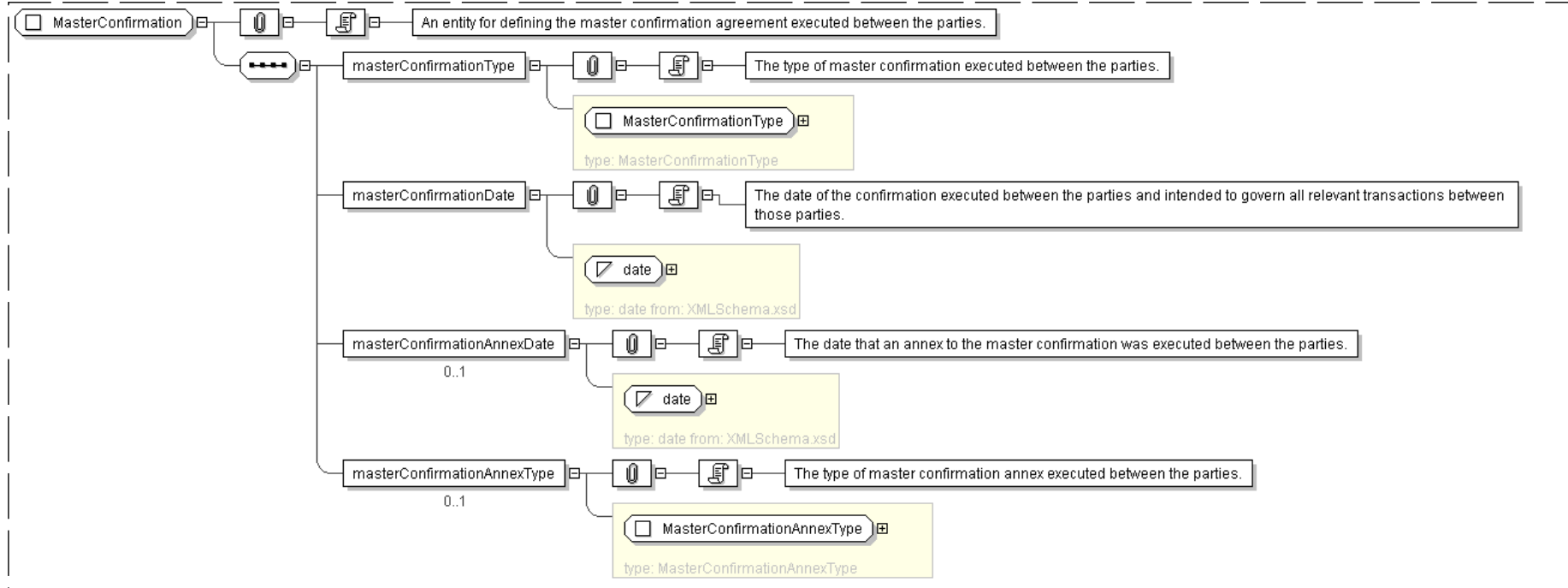
'The date that an annex to the master confirmation was executed between the parties.'

```
<masterConfirmationAnnexType> MasterConfirmationAnnexType </masterConfirmationAnnexType> [0..1]
```

'The type of master confirmation annex executed between the parties.'

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="MasterConfirmation">
  <xsd:sequence>
    <xsd:element name="masterConfirmationType" type=" MasterConfirmationType " />
    <xsd:element name="masterConfirmationDate" type=" xsd:date " />
    <xsd:element name="masterConfirmationAnnexDate" type=" xsd:date " minOccurs="0"/>
    <xsd:element name="masterConfirmationAnnexType" type=" MasterConfirmationAnnexType " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
  
```

[top](#)

#### Complex Type: **MasterConfirmationAnnexType**

Super-types: [xsd:normalizedString](#) < [Scheme](#) (by restriction) < **MasterConfirmationAnnexType** (by extension)

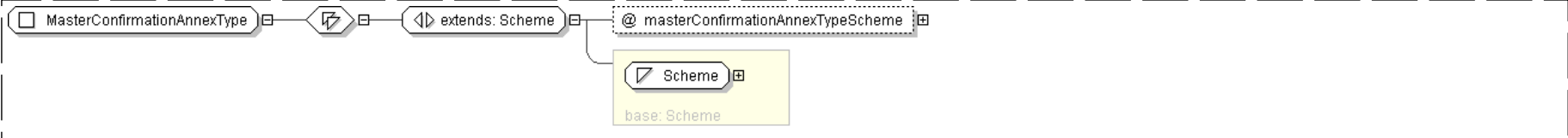
Sub-types:	None
------------	------

Name	MasterConfirmationAnnexType
Used by (from the same schema document)	Complex Type <a href="#">MasterConfirmation</a>
Abstract	no

XML Instance Representation

```
<...  
masterConfirmationAnnexTypeScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MasterConfirmationAnnexType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme " >  
      <xsd:attribute name="masterConfirmationAnnexTypeScheme" type=" xsd:anyURI " default="http://  
        www.fpml.org/coding-scheme/master-confirmation-annex-type"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **MasterConfirmationType**

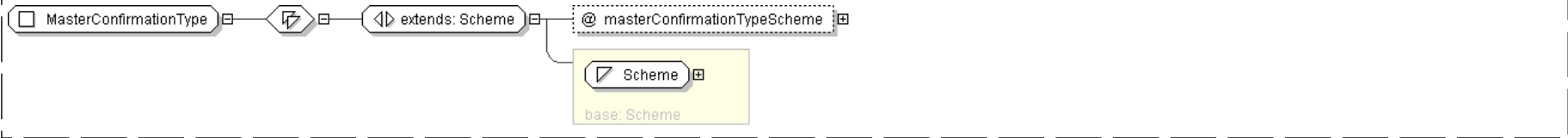
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MasterConfirmationType</b> (by extension)
Sub-types:	None

Name	MasterConfirmationType
Used by (from the same schema document)	Complex Type <a href="#">MasterConfirmation</a>
Abstract	no

XML Instance Representation

```
<...  
masterConfirmationTypeScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MasterConfirmationType">  
  <xsd:simpleContent>
```



```
<xsd:extension base=" Scheme " >
  <xsd:attribute name="masterConfirmationTypeScheme" type=" xsd:anyURI " default="http://www.
    fpml.org/coding-scheme/master-confirmation-type"/>
</xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
```

[top](#)

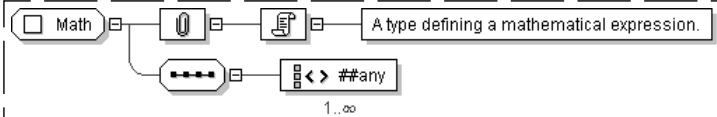
Complex Type: **Math**

Super-types:	None
Sub-types:	None
Name	Math
Used by (from the same schema document)	Complex Type <a href="#">Formula</a>
Abstract	no
Documentation	A type defining a mathematical expression.

XML Instance Representation

```
<...>
<!-- Mixed content -->
  Allow any elements from any namespace (skip validation). [1..*]
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Math" mixed="true">
  <xsd:sequence>
    <xsd:any namespace="##any" processContents="skip" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **MatrixTerm**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MatrixTerm</b> (by extension)
Sub-types:	None
Name	MatrixTerm
Used by (from the same schema document)	Complex Type <a href="#">ContractualMatrix</a>
Abstract	no

XML Instance Representation

```
<...
matrixTermScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="MatrixTerm">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="matrixTermScheme" type=" xsd:anyURI " default="http://www.fpml.org/
        coding-scheme/credit-matrix-transaction-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MatrixType**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MatrixType</b> (by extension)
Sub-types:	None

Name	MatrixType
Used by (from the same schema document)	Complex Type <a href="#">ContractualMatrix</a>
Abstract	no

XML Instance Representation

```
<...
matrixTypeScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MatrixType">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="matrixTypeScheme" type=" xsd:anyURI " default="http://www.fpml.org/
        coding-scheme/matrix-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MimeType**

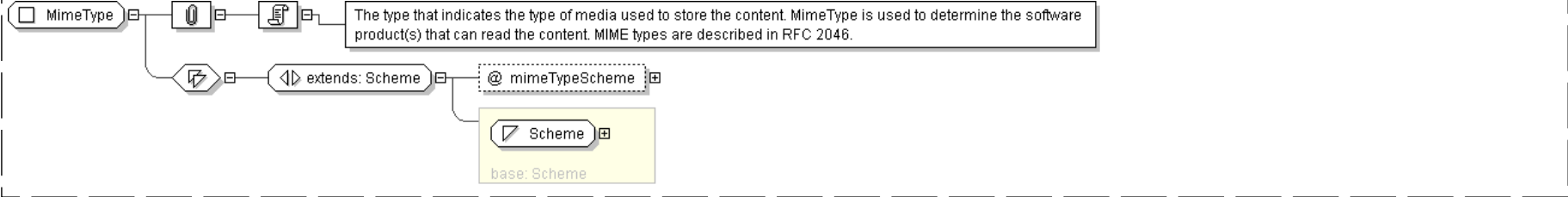
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MimeType</b> (by extension)
Sub-types:	None

Name	MimeType
Abstract	no
Documentation	The type that indicates the type of media used to store the content. MimeType is used to determine the software product(s) that can read the content. MIME types are described in RFC 2046.

XML Instance Representation

```
<...  
  mimeTypeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MimeType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme">  
      <xsd:attribute name="mimeTypeScheme" type=" xsd:anyURI" />  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: Money

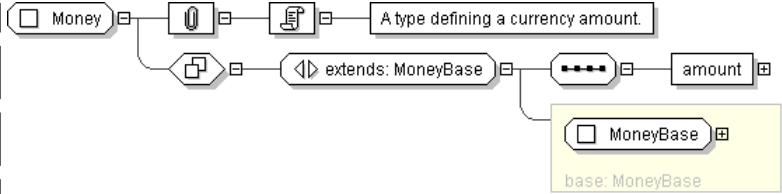
Super-types:	<a href="#">MoneyBase</a> < <b>Money</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">NotionalAmount</a> (by extension)</li></ul>

Name	Money
Used by (from the same schema document)	Complex Type <a href="#">Payment</a> , Complex Type <a href="#">Payment</a> , Complex Type <a href="#">SimplePayment</a> , Complex Type <a href="#">SplitSettlement</a> , Complex Type <a href="#">StubValue</a> , Model Group <a href="#">PaymentDiscounting.model</a> , Model Group <a href="#">Premium.model</a> , Model Group <a href="#">SettlementAmountOrCurrency.model</a>
Abstract	no
Documentation	A type defining a currency amount.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <currency> Currency </currency> [1]  
  'The currency in which an amount is denominated.'  
  
  <amount> xsd:decimal </amount> [1]  
  'The monetary quantity in currency units.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Money">
  <xsd:complexContent>
    <xsd:extension base=" MoneyBase " >
      <xsd:sequence>
        <xsd:element name="amount" type=" xsd:decimal " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: MoneyBase

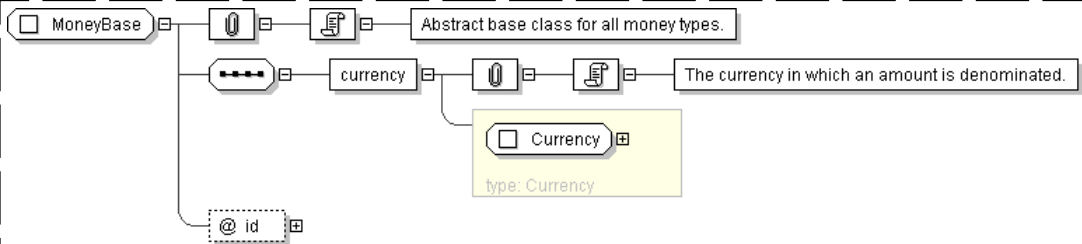
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">Money</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">NotionalAmount</a> (by extension)</li></ul></li><li>• <a href="#">NonNegativeMoney</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">FutureValueAmount</a> (by extension)</li></ul></li><li>• <a href="#">PositiveMoney</a> (by extension)</li></ul>

Name	MoneyBase
Abstract	yes
Documentation	Abstract base class for all money types.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MoneyBase" abstract="true">
  <xsd:sequence>
    <xsd:element name="currency" type=" Currency " />
  </xsd:sequence>
```

```
<xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **MultipleExchangeAnnex**

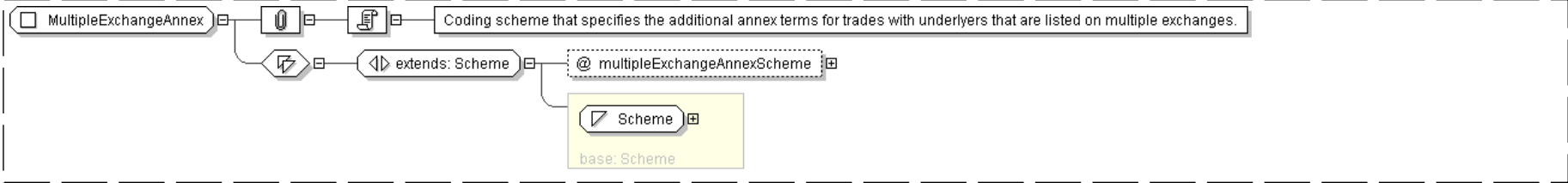
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>MultipleExchangeAnnex</b> (by extension)
Sub-types:	None

Name	MultipleExchangeAnnex
Abstract	no
Documentation	Coding scheme that specifies the additional annex terms for trades with underlyers that are listed on multiple exchanges.

XML Instance Representation

```
<...
multipleExchangeAnnexScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="MultipleExchangeAnnex">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="multipleExchangeAnnexScheme" type="xsd:anyURI" default="http://www.
        fpml.org/coding-scheme/multiple-exchange-annex"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **MultipleExercise**

Super-types:	None
Sub-types:	None

Name	MultipleExercise
Used by (from the same schema document)	Complex Type <a href="#">AmericanExercise</a> , Complex Type <a href="#">BermudaExercise</a>
Abstract	no
Documentation	A type defining multiple exercises. As defining in the 2000 ISDA Definitions, Section 12.4. Multiple Exercise, the buyer of the option has the right to exercise all or less than all the unexercised notional amount of the underlying swap on one or more days in the exercise period, but on any such day may not exercise less than the minimum notional amount or more than the maximum notional amount, and if an integral multiple amount is specified, the notional exercised must be equal to or, be an integral multiple of, the integral multiple amount.

XML Instance Representation

```
<...>
<notionalReference> NotionalReference </notionalReference> [0..*]
```

'A pointer style reference to the associated notional schedule defined elsewhere in the document. This element has been made optional as part of its integration in the *OptionBaseExtended*, because not required for the options on securities.'

```
<integralMultipleAmount> xsd:decimal </integralMultipleAmount> [0..1]
```

'A notional amount which restricts the amount of notional that can be exercised when partial exercise or multiple exercise is applicable. The integral multiple amount defines a lower limit of notional that can be exercised and also defines a unit multiple of notional that can be exercised, i.e. only integer multiples of this amount can be exercised.'

Start *Choice* [1]

```
<minimumNotionalAmount> xsd:decimal </minimumNotionalAmount> [1]
```

'The minimum notional amount that can be exercised on a given exercise date. See *multipleExercise*.'

```
<minimumNumberOfOptions> xsd:nonNegativeInteger </minimumNumberOfOptions> [1]
```

'The minimum number of options that can be exercised on a given exercise date.'

End *Choice*

Start *Choice* [0..1]

```
<maximumNotionalAmount> xsd:decimal </maximumNotionalAmount> [1]
```

'The maximum notional amount that can be exercised on a given exercise date.'

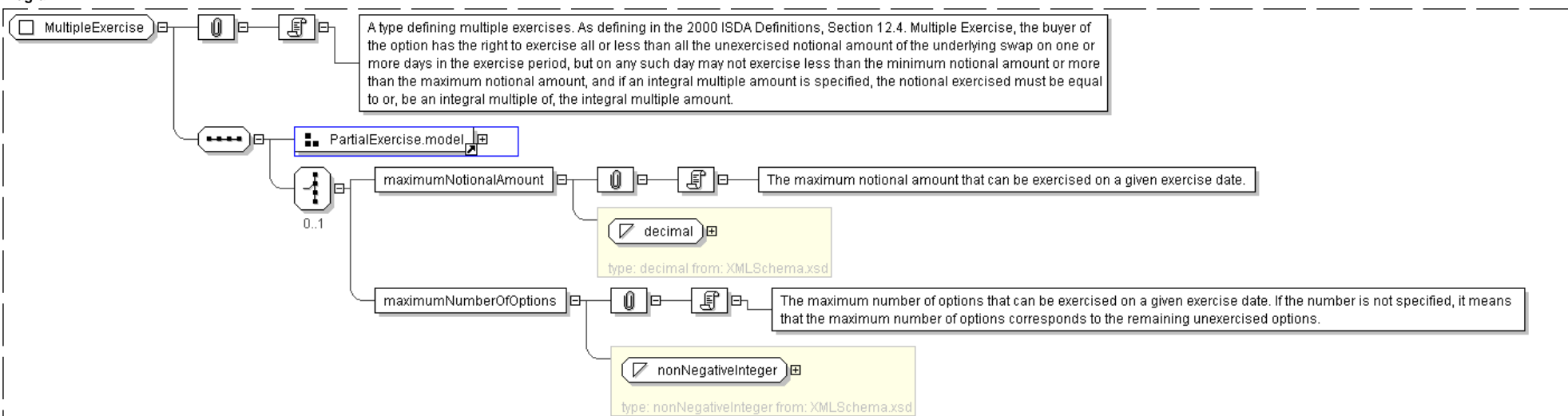
```
<maximumNumberOfOptions> xsd:nonNegativeInteger </maximumNumberOfOptions> [1]
```

'The maximum number of options that can be exercised on a given exercise date. If the number is not specified, it means that the maximum number of options corresponds to the remaining unexercised options.'

End *Choice*

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="MultipleExercise">
  <xsd:sequence>
    <xsd:group ref=" PartialExercise.model " />
    <xsd:choice minOccurs="0">
      <xsd:element name="maximumNotionalAmount" type=" xsd:decimal " />
      <xsd:element name="maximumNumberOfOptions" type=" xsd:nonNegativeInteger " />
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

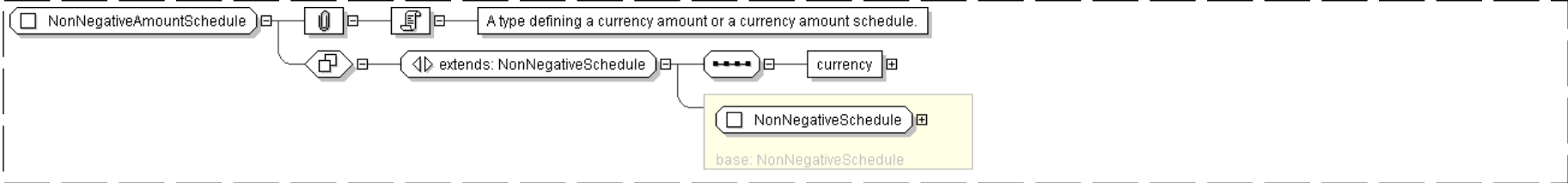
Complex Type: **NonNegativeAmountSchedule**

Super-types:	<a href="#">NonNegativeSchedule</a> < <b>NonNegativeAmountSchedule</b> (by extension)
Sub-types:	None
Name	NonNegativeAmountSchedule
Abstract	no
Documentation	A type defining a currency amount or a currency amount schedule.

XML Instance Representation

```
<...  
  id="  xsd:ID [0..1]">  
    <initialValue> NonNegativeDecimal </initialValue> [1]  
    'The non-negative initial rate or amount, as the case may be. An initial rate of 5% would  
    be represented as 0.05.'  
  
    <step> NonNegativeStep </step> [0..*]  
  
    'The schedule of step date and non-negative value pairs. On each step date the associated  
    step value becomes effective. A list of steps may be ordered in the document by ascending  
    step date. An FpML document containing an unordered list of steps is still regarded as  
    a conformant document.'  
  
    <currency> Currency </currency> [1]  
    'The currency in which an amount is denominated.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NonNegativeAmountSchedule">  
  <xsd:complexContent>  
    <xsd:extension base=" NonNegativeSchedule ">  
      <xsd:sequence>  
        <xsd:element name="currency" type=" Currency "/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: **NonNegativeMoney**

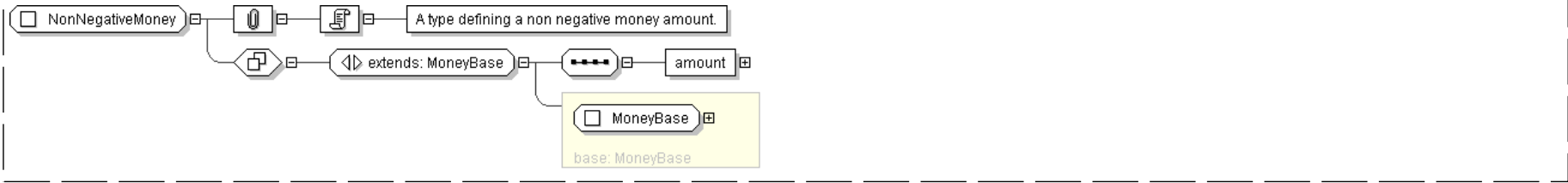
Super-types:	<a href="#">MoneyBase</a> < <b>NonNegativeMoney</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">FutureValueAmount</a> (by extension)</li></ul>

Name	NonNegativeMoney
Used by (from the same schema document)	Complex Type <a href="#">NonNegativePayment</a>
Abstract	no
Documentation	A type defining a non negative money amount.

XML Instance Representation

```
<...  
  id="  xsd:ID [0..1]">  
    <currency> Currency </currency> [1]  
    'The currency in which an amount is denominated.'  
  
    <amount> NonNegativeDecimal </amount> [1]  
    'The non negative monetary quantity in currency units.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NonNegativeMoney">  
  <xsd:complexContent>  
    <xsd:extension base="  MoneyBase  ">  
      <xsd:sequence>  
        <xsd:element name="amount" type="  NonNegativeDecimal  "/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **NonNegativePayment**

Super-types:	<a href="#">PaymentBase</a> < <a href="#">PaymentBaseExtended</a> (by extension) < <b>NonNegativePayment</b> (by extension)
Sub-types:	None

Name	NonNegativePayment
Abstract	no
Documentation	A complex type to specify non negative payments.

XML Instance Representation

```
<...  
  id="  xsd:ID [0..1]">  
    <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
    'A reference to the party responsible for making the payments defined by this structure.'  
  
    <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
    'A reference to the party that receives the payments corresponding to this structure.'  
  
    <paymentDate> AdjustableOrRelativeDate </paymentDate> [1]  
  
</...>
```



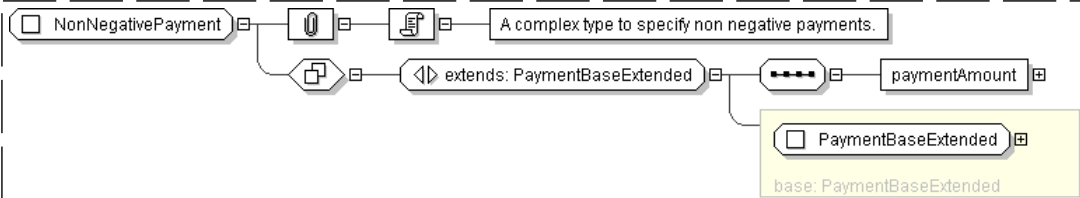
```
'The payment date, which can be expressed as either an adjustable or relative date.'
```

```
<paymentAmount> NonNegativeMoney </paymentAmount> [1]
```

```
'Non negative payment amount.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NonNegativePayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBaseExtended">
      <xsd:sequence>
        <xsd:element name="paymentAmount" type="NonNegativeMoney"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NonNegativeSchedule**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">NonNegativeAmountSchedule</a> (by extension)</li></ul>
Name	NonNegativeSchedule
Abstract	no
Documentation	A type defining a schedule of non-negative rates or amounts in terms of an initial value and then a series of step date and value pairs. On each step date the rate or amount changes to the new step value. The series of step date and value pairs are optional. If not specified, this implies that the initial value remains unchanged over time.

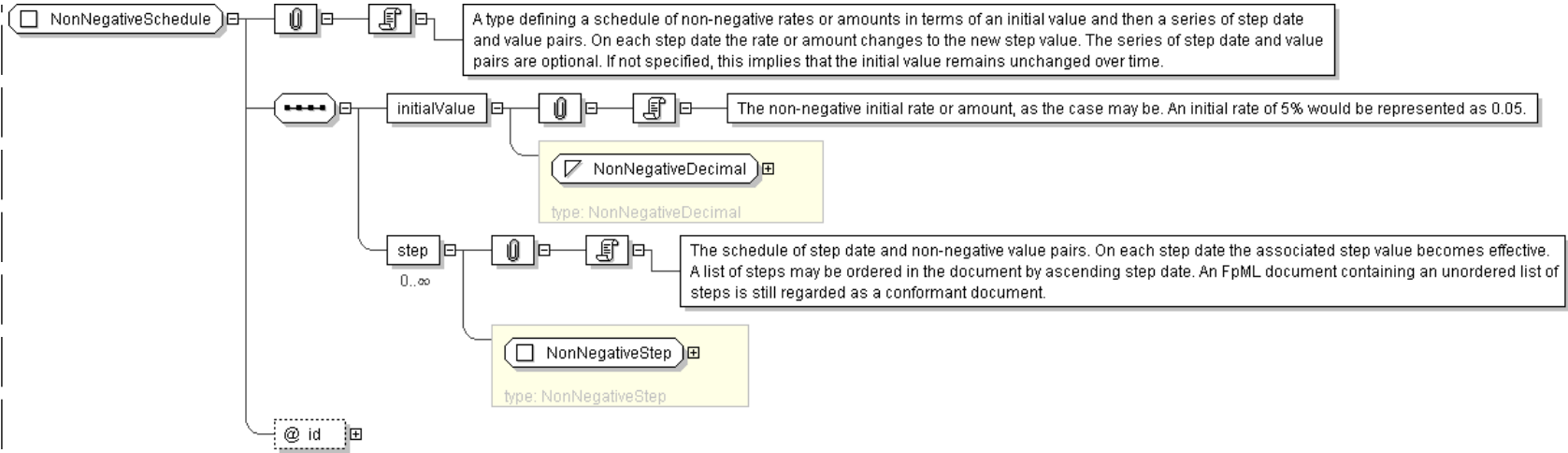
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <initialValue> NonNegativeDecimal </initialValue> [1]
  'The non-negative initial rate or amount, as the case may be. An initial rate of 5% would
  be represented as 0.05.'
```

```
  <step> NonNegativeStep </step> [0..*]
  'The schedule of step date and non-negative value pairs. On each step date the associated
  step value becomes effective. A list of steps may be ordered in the document by ascending
  step date. An FpML document containing an unordered list of steps is still regarded as
  a conformant document.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NonNegativeSchedule">
  <xsd:sequence>
    <xsd:element name="initialValue" type="NonNegativeDecimal" />
    <xsd:element name="step" type="NonNegativeStep" minOccurs="0" maxOccurs="unbounded" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **NonNegativeStep**

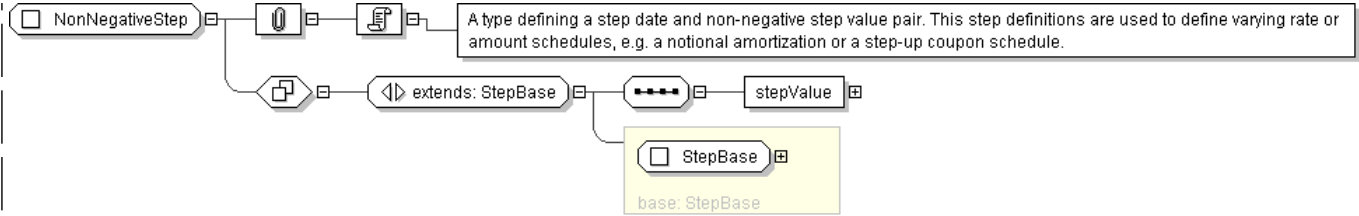
Super-types:	<a href="#">StepBase</a> < <b>NonNegativeStep</b> (by extension)
Sub-types:	None
Name	NonNegativeStep
Used by (from the same schema document)	Complex Type <a href="#">NonNegativeSchedule</a>
Abstract	no
Documentation	A type defining a step date and non-negative step value pair. This step definitions are used to define varying rate or amount schedules, e.g. a notional amortization or a step-up coupon schedule.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <stepDate> xsd:date </stepDate> [1]
  'The date on which the associated stepValue becomes effective. This day may be subject
  to adjustment in accordance with a business day convention.'

  <stepValue> NonNegativeDecimal </stepValue> [1]
  'The non-negative rate or amount which becomes effective on the associated stepDate. A rate
  of 5% would be represented as 0.05.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NonNegativeStep">
  <xsd:complexContent>
    <xsd:extension base=" StepBase " >
      <xsd:sequence>
        <xsd:element name="stepValue" type=" NonNegativeDecimal " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NotionalAmount**

Super-types:	<a href="#">MoneyBase</a> < <a href="#">Money</a> (by extension) < <b>NotionalAmount</b> (by extension)
Sub-types:	None

Name	NotionalAmount
Abstract	no
Documentation	A complex type to specify the notional amount.

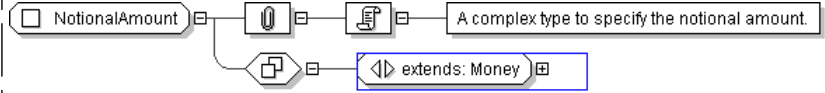
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'

  <amount> xsd:decimal </amount> [1]
  'The monetary quantity in currency units.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotionalAmount">
  <xsd:complexContent>
    <xsd:extension base=" Money " />
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **NotionalAmountReference**

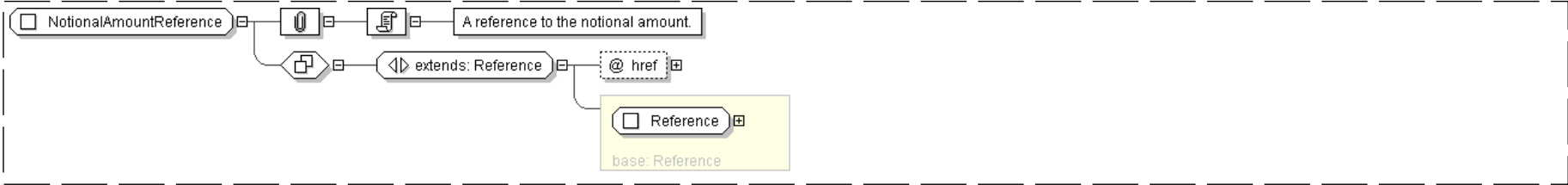
Super-types:	<a href="#">Reference</a> < <b>NotionalAmountReference</b> (by extension)
Sub-types:	None

Name	NotionalAmountReference
Abstract	no
Documentation	A reference to the notional amount.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]"/>  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotionalAmountReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference">  
      <xsd:attribute name="href" type="xsd:IDREF" use="required"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **NotionalReference**

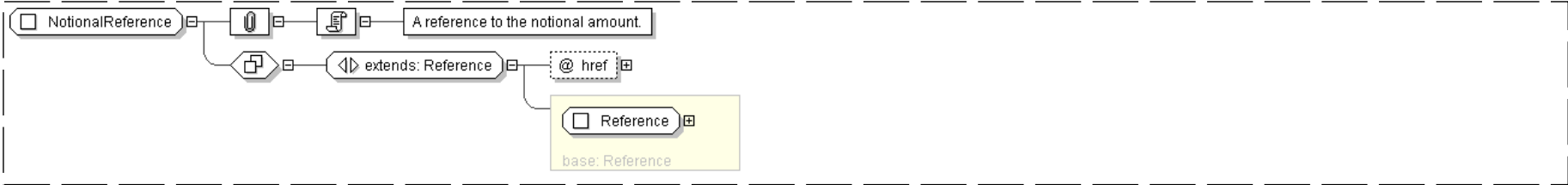
Super-types:	<a href="#">Reference</a> < <b>NotionalReference</b> (by extension)
Sub-types:	None

Name	NotionalReference
Used by (from the same schema document)	Complex Type <a href="#">ExerciseFee</a> , Model Group <a href="#">PartialExercise.model</a>
Abstract	no
Documentation	A reference to the notional amount.

XML Instance Representation

```
<...  
  href=" xsd:IDREF [1]"/>  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="NotionalReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Notional"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: Offset

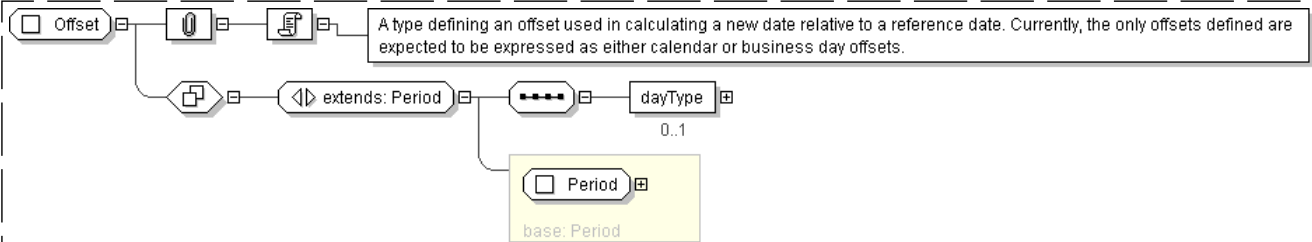
Super-types:	<a href="#">Period</a> < <b>Offset</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">DateOffset</a> (by extension)</li><li><a href="#">RelativeDateOffset</a> (by extension)<ul style="list-style-type: none"><li><a href="#">AdjustedRelativeDateOffset</a> (by extension)</li><li><a href="#">RelativeDates</a> (by extension)</li></ul></li></ul>

Name	Offset
Used by (from the same schema document)	Complex Type <a href="#">OffsetPrevailingTime</a>
Abstract	no
Documentation	A type defining an offset used in calculating a new date relative to a reference date. Currently, the only offsets defined are expected to be expressed as either calendar or business day offsets.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <periodMultiplier> xsd:integer </periodMultiplier> [1]
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying
  an offset relative to another date, e.g. -2 days.'
  <period> PeriodEnum </period> [1]
  'A time period, e.g. a day, week, month or year of the stream. If the periodMultiplier value
  is 0 (zero) then period must contain the value D (day).'
  <dayType> DayTypeEnum </dayType> [0..1]
  'In the case of an offset specified as a number of days, this element defines
  whether consideration is given as to whether a day is a good business day or not. If a day
  type of business days is specified then non-business days are ignored when calculating
  the offset. The financial business centers to use for determination of business days
  are implied by the context in which this element is used. This element must only be
  included when the offset is specified as a number of days. If the offset is zero days then
  the dayType element should not be included.'
```

Diagram



Schema Component Representation

Complex Type: OffsetPrevailingTime

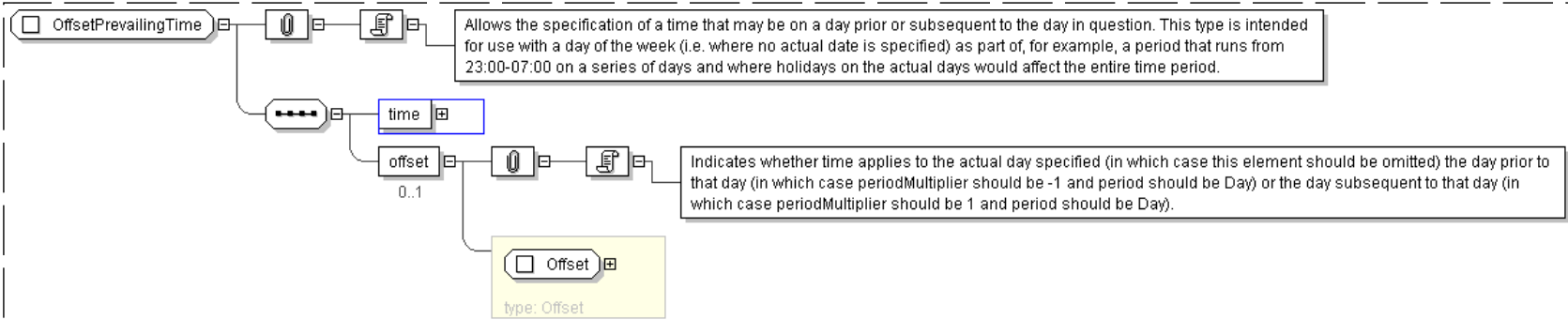
Super-types:	None
Sub-types:	None
Name	OffsetPrevailingTime
Abstract	no
Documentation	Allows the specification of a time that may be on a day prior or subsequent to the day in question. This type is intended for use with a day of the week (i.e. where no actual date is specified) as part of, for example, a period that runs from 23:00-07:00 on a series of days and where holidays on the actual days would affect the entire time period.

XML Instance Representation

```
<...>
  <time> PrevailingTime </time> [1]
  <offset> Offset </offset> [0..1]
  'Indicates whether time applies to the actual day specified (in which case this element should be omitted) the day prior to that day (in which case periodMultiplier should be -1 and period should be Day) or the day subsequent to that day (in which case periodMultiplier should be 1 and period should be Day).'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="OffsetPrevailingTime">
  <xsd:sequence>
    <xsd:element name="time" type="PrevailingTime" />
    <xsd:element name="offset" type="Offset" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **PartialExercise**

Super-types:	None
Sub-types:	None
Name	PartialExercise
Used by (from the same schema document)	Complex Type <a href="#">EuropeanExercise</a>
Abstract	no
Documentation	A type defining partial exercise. As defined in the 2000 ISDA Definitions, Section 12.3 Partial Exercise, the buyer of the option may exercise all or less than all the notional amount of the underlying swap but may not be less than the minimum notional amount (if specified) and must be an integral multiple of the integral multiple amount if specified.

XML Instance Representation

<...>

<notionalReference> [NotionalReference](#) </notionalReference> [0..\*]

'A pointer style reference to the associated notional schedule defined elsewhere in the document. This element has been made optional as part of its integration in the OptionBaseExtended, because not required for the options on securities.'

<integralMultipleAmount> [xsd:decimal](#) </integralMultipleAmount> [0..1]

'A notional amount which restricts the amount of notional that can be exercised when partial exercise or multiple exercise is applicable. The integral multiple amount defines a lower limit of notional that can be exercised and also defines a unit multiple of notional that can be exercised, i.e. only integer multiples of this amount can be exercised.'

Start [Choice](#) [1]

<minimumNotionalAmount> [xsd:decimal](#) </minimumNotionalAmount> [1]

'The minimum notional amount that can be exercised on a given exercise date. See multipleExercise.'

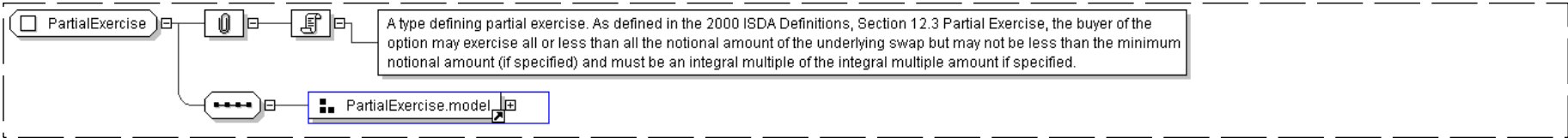
<minimumNumberOfOptions> [xsd:nonNegativeInteger](#) </minimumNumberOfOptions> [1]

'The minimum number of options that can be exercised on a given exercise date.'

End Choice

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="PartialExercise">
  <xsd:sequence>
    <xsd:group ref="PartialExercise.model" />
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **Party**

Super-types:	None
Sub-types:	None
Name	Party
Abstract	no

Documentation

A type defining a legal entity or a subdivision of a legal entity.

Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.

XML Instance Representation

```
<...
id=" xsd:ID [1]
'The id uniquely identifying the Party within the document.'

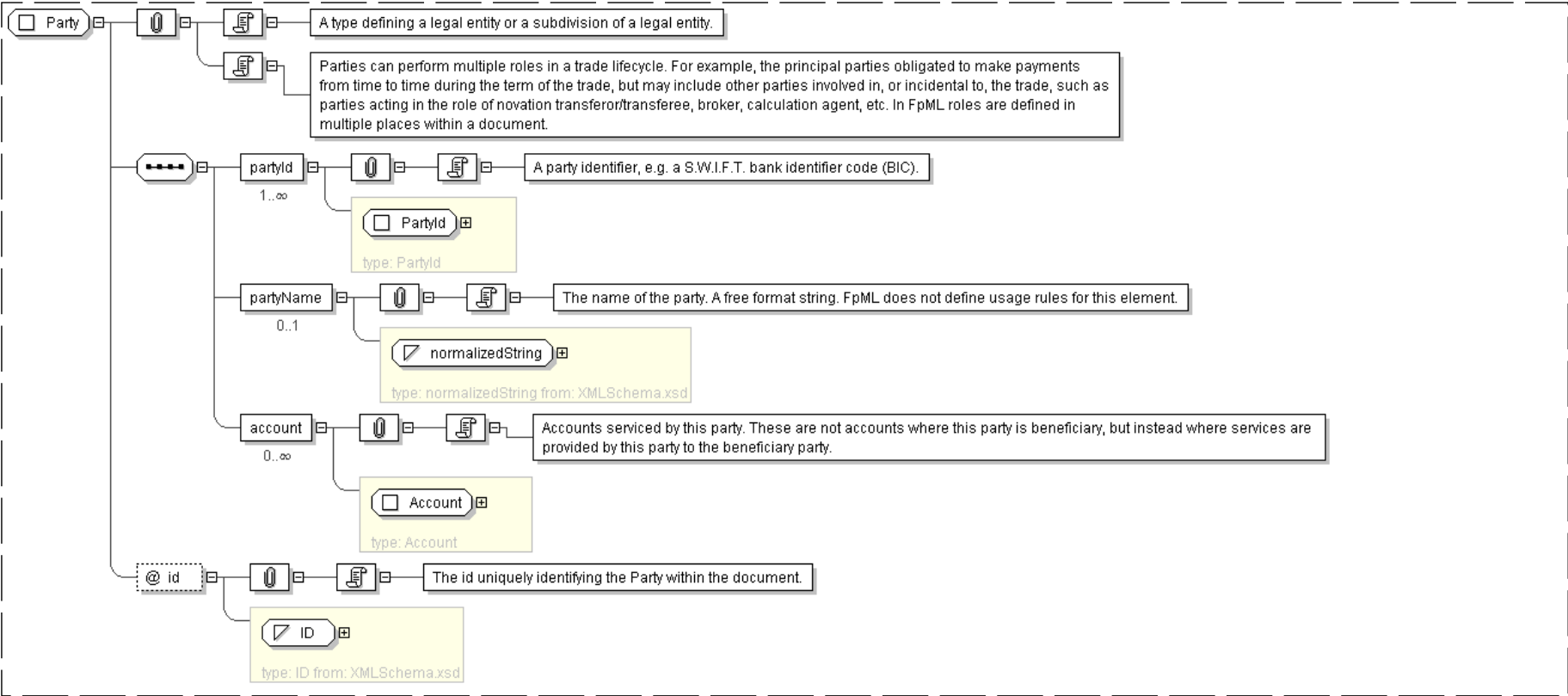
">
<partyId> PartyId </partyId> [1..*]
'A party identifier, e.g. a S.W.I.F.T. bank identifier code (BIC).'

<partyName> xsd:normalizedString </partyName> [0..1]
'The name of the party. A free format string. FpML does not define usage rules for
this element.'

<account> Account </account> [0..*]
'Accounts serviced by this party. These are not accounts where this party is beneficiary,
but instead where services are provided by this party to the beneficiary party.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Party">
```



```
<xsd:sequence>
  <xsd:element name="partyId" type=" PartyId " maxOccurs="unbounded" />
  <xsd:element name="partyName" type=" xsd:normalizedString " minOccurs="0" />
  <xsd:element name="account" type=" Account " minOccurs="0" maxOccurs="unbounded" />
</xsd:sequence>
<xsd:attribute name="id" type=" xsd:ID " use="required" />
</xsd:complexType>
```

[top](#)

Complex Type: **PartyId**

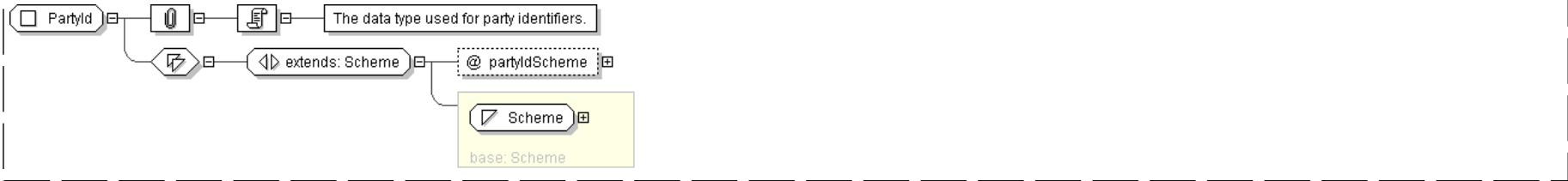
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>PartyId</b> (by extension)
Sub-types:	None

Name	PartyId
Used by (from the same schema document)	Complex Type <a href="#">Party</a>
Abstract	no
Documentation	The data type used for party identifiers.

XML Instance Representation

```
<...
partyIdScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="partyIdScheme" type=" xsd:anyURI " default="http://www.fpml.org/
        ext/iso9362"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PartyOrAccountReference**

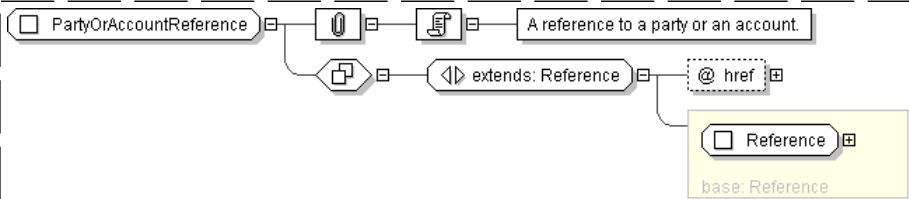
Super-types:	<a href="#">Reference</a> < <b>PartyOrAccountReference</b> (by extension)
Sub-types:	None

Name	PartyOrAccountReference
Used by (from the same schema document)	Model Group <a href="#">PayerReceiver.model</a> , Model Group <a href="#">PayerReceiver.model</a>
Abstract	no
Documentation	A reference to a party or an account.

XML Instance Representation

```
<...  
href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyOrAccountReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " >  
      <xsd:attribute name="href" type=" xsd:IDREF " use="required"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **PartyOrTradeSideReference**

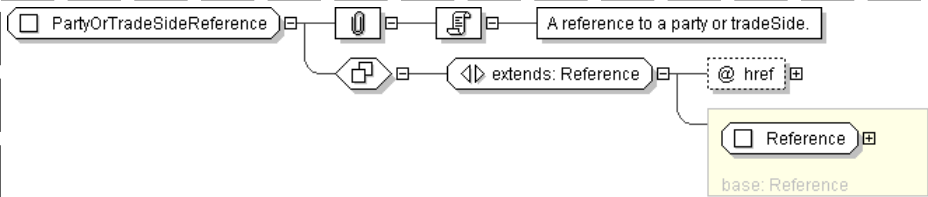
Super-types:	<a href="#">Reference</a> < <b>PartyOrTradeSideReference</b> (by extension)
Sub-types:	None

Name	PartyOrTradeSideReference
Used by (from the same schema document)	Model Group <a href="#">BuyerSeller.model</a> , Model Group <a href="#">BuyerSeller.model</a>
Abstract	no
Documentation	A reference to a party or tradeSide.

XML Instance Representation

```
<...  
href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyOrTradeSideReference">  
  <xsd:complexContent>  
    <xsd:extension base=" Reference " >  
      <xsd:attribute name="href" type=" xsd:IDREF " use="required"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: PartyReference

Super-types:	<a href="#">Reference</a> < <b>PartyReference</b> (by extension)
Sub-types:	None

Name	PartyReference
Used by (from the same schema document)	Complex Type <a href="#">Account</a> , Complex Type <a href="#">Beneficiary</a> , Complex Type <a href="#">CalculationAgent</a> , Complex Type <a href="#">CorrespondentInformation</a> , Complex Type <a href="#">ExerciseNotice</a> , Complex Type <a href="#">ExerciseNotice</a> , Complex Type <a href="#">IntermediaryInformation</a> , Complex Type <a href="#">SettlementInstruction</a>
Abstract	no
Documentation	Reference to a party.

XML Instance Representation

```
<...  
  href=" xsd:IDREF \[1\]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PartyReference">  
  <xsd:complexContent>  
    <xsd:extension base="Reference">  
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Party"/>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

Complex Type: Payment

Super-types:	<a href="#">PaymentBase</a> < <b>Payment</b> (by extension)
Sub-types:	None

Name	Payment
Abstract	no
Documentation	A type for defining payments

XML Instance Representation

```
<...  
  id=" xsd:ID \[0..1\]"  
  href=" xsd:IDREF \[0..1\]"  
  'Can be used to reference the yield curve used to estimate the discount factor'  
>  
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
  'A reference to the party responsible for making the payments defined by this structure.'
```

<receiverPartyReference> [PartyOrAccountReference](#) </receiverPartyReference> [1]

'A reference to the party that receives the payments corresponding to this structure.'

<paymentAmount> [Money](#) </paymentAmount> [1]

'The currency amount of the payment.'

<paymentDate> [AdjustableDate](#) </paymentDate> [0..1]

'The payment date. This date is subject to adjustment in accordance with any applicable business day convention.'

<adjustedPaymentDate> [IdentifiedDate](#) </adjustedPaymentDate> [0..1]

'The adjusted payment date. This date should already be adjusted for any applicable business day convention. This component is not intended for use in trade confirmation but may be specified to allow the fee structure to also serve as a cashflow type component (all dates the the Cashflows type are adjusted payment dates).'

<paymentType> [PaymentType](#) </paymentType> [0..1]

'A classification of the type of fee or additional payment, e.g. brokerage, upfront fee etc. FpML does not define domain values for this element.'

<settlementInformation> [SettlementInformation](#) </settlementInformation> [0..1]

'The information required to settle a currency payment that results from a trade.'

<discountFactor> [xsd:decimal](#) </discountFactor> [0..1]

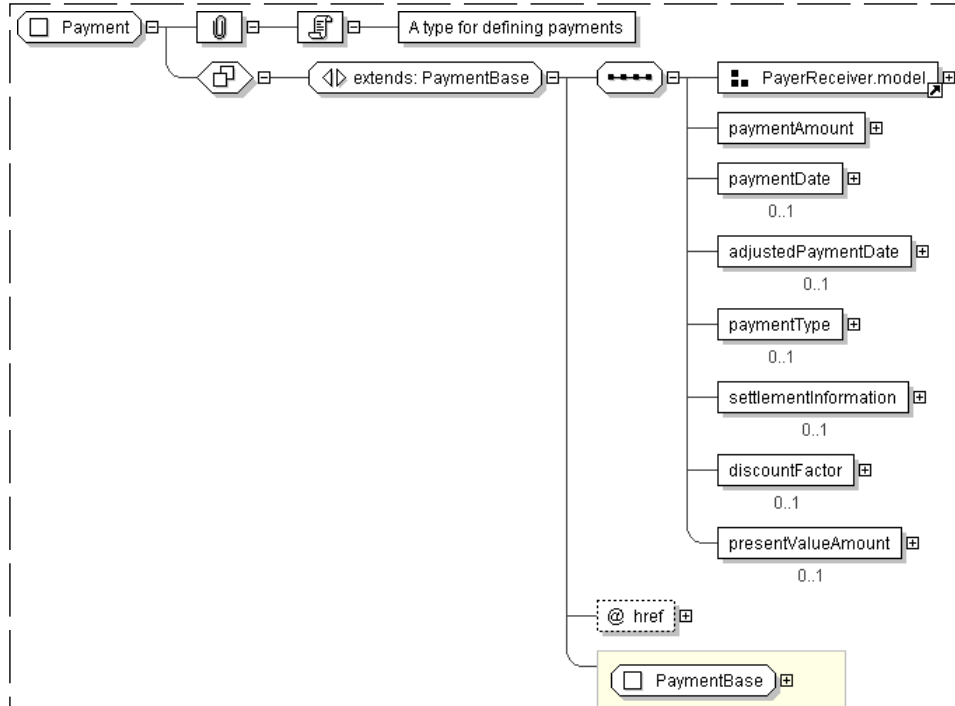
'The value representing the discount factor used to calculate the present value of the cash flow.'

<presentValueAmount> [Money](#) </presentValueAmount> [0..1]

'The amount representing the present value of the forecast payment.'

</...>

#### Diagram



base: PaymentBase

Schema Component Representation

```
<xsd:complexType name="Payment">
  <xsd:complexContent>
    <xsd:extension base=" PaymentBase " >
      <xsd:sequence>
        <xsd:group ref=" PayerReceiver.model " />
        <xsd:element name="paymentAmount" type=" Money " />
        <xsd:element name="paymentDate" type=" AdjustableDate " minOccurs="0"/>
        <xsd:element name="adjustedPaymentDate" type=" IdentifiedDate " minOccurs="0"/>
        <xsd:element name="paymentType" type=" PaymentType " minOccurs="0"/>
        <xsd:element name="settlementInformation" type=" SettlementInformation " minOccurs="0"/>
        <xsd:element name="discountFactor" type=" xsd:decimal " minOccurs="0"/>
        <xsd:element name="presentValueAmount" type=" Money " minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="href" type=" xsd:IDREF " reference="PricingStructure"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: PaymentBase

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>Payment (by extension)</li><li>PaymentBaseExtended (by extension)<ul style="list-style-type: none"><li>NonNegativePayment (by extension)</li><li>PositivePayment (by extension)</li></ul></li><li>SimplePayment (by extension)</li></ul>

Name	PaymentBase
Abstract	yes
Documentation	An abstract base class for payment types.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]" />
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentBase" abstract="true">
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

[top](#)

Complex Type: PaymentBaseExtended

Super-types:	PaymentBase < PaymentBaseExtended (by extension)
--------------	--

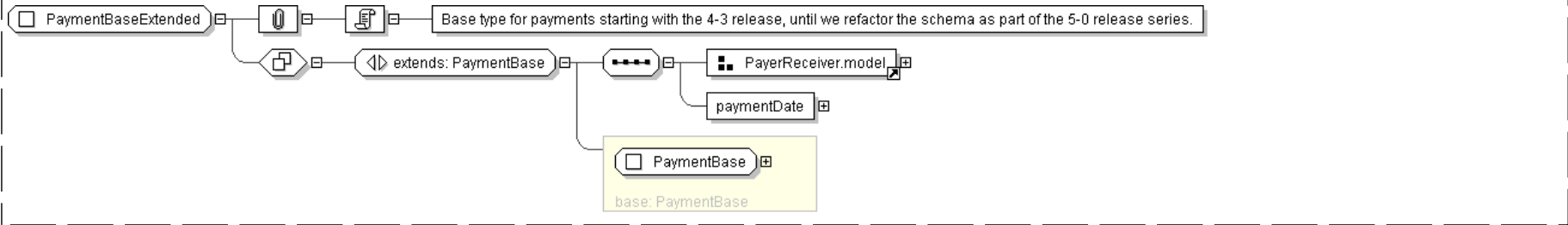
Sub-types:	<div><ul style="list-style-type: none"><li>• <a href="#">NonNegativePayment</a> (by extension)</li><li>• <a href="#">PositivePayment</a> (by extension)</li></ul></div>
------------	---

Name	PaymentBaseExtended
Abstract	yes
Documentation	Base type for payments starting with the 4-3 release, until we refactor the schema as part of the 5-0 release series.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
    'A reference to the party responsible for making the payments defined by this structure.'  
  
    <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
    'A reference to the party that receives the payments corresponding to this structure.'  
  
    <paymentDate> AdjustableOrRelativeDate </paymentDate> [1]  
    'The payment date, which can be expressed as either an adjustable or relative date.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentBaseExtended" abstract="true">  
  <xsd:complexContent>  
    <xsd:extension base=" PaymentBase " />  
    <xsd:sequence>  
      <xsd:group ref=" PayerReceiver.model " />  
      <xsd:element name="paymentDate" type=" AdjustableOrRelativeDate " />  
    </xsd:sequence>  
  </xsd:extension>  
</xsd:complexContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **PaymentCurrency**

Super-types:	None
Sub-types:	None

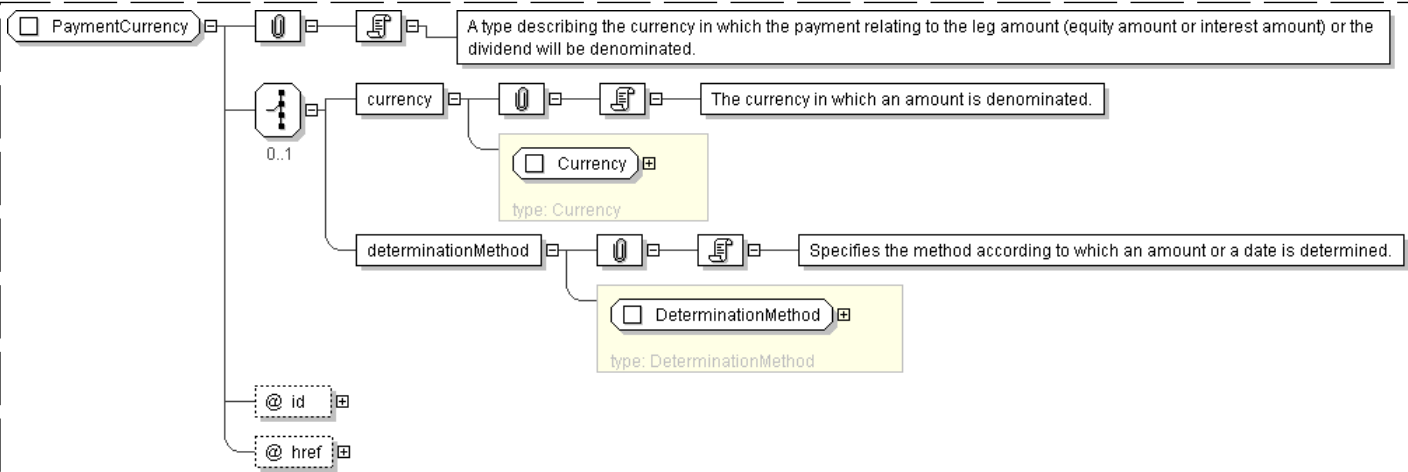
Name	PaymentCurrency
Abstract	no
Documentation	A type describing the currency in which the payment relating to the leg amount (equity amount or interest amount) or the dividend will be denominated.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]"
```

```
| href=" xsd:IDREF [0..1]">
| Start Choice [0..1]
|   <currency> Currency </currency> [1]
|   'The currency in which an amount is denominated.'
|
|   <determinationMethod> DeterminationMethod </determinationMethod> [1]
|   'Specifies the method according to which an amount or a date is determined.'
|
| End Choice
| </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentCurrency" deprecated="true" deprecatedReason="The model is
wrong since it has an intradocument reference that is not clear. Current PaymentCurrency
model and elements using this type are deprecated. Instead, a choice between
currency, determinationMethod, and currencyReference (of type CurrencyReference) are
inserted at the same level as the elements using PaymentCurrency.">
  <xsd:choice minOccurs="0">
    <xsd:element name="currency" type=" Currency "/>
    <xsd:element name="determinationMethod" type=" DeterminationMethod "/>
  </xsd:choice>
  <xsd:attribute name="id" type=" xsd:ID "/>
  <xsd:attribute name="href" type=" xsd:IDREF "/>
</xsd:complexType>
```

[top](#)

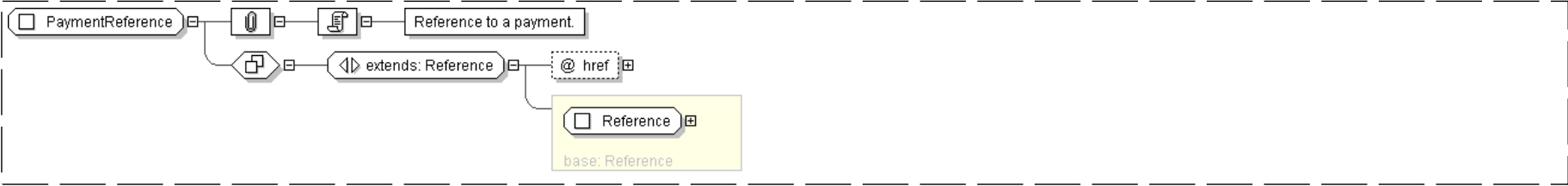
Complex Type: **PaymentReference**

Super-types:	<a href="#">Reference</a> < <b>PaymentReference</b> (by extension)
Sub-types:	None
Name	PaymentReference
Abstract	no
Documentation	Reference to a payment.

XML Instance Representation

```
<...
  href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="PaymentBase"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PaymentType**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>PaymentType</b> (by extension)
Sub-types:	None

Name	PaymentType
Used by (from the same schema document)	Complex Type <a href="#">Payment</a>
Abstract	no

XML Instance Representation

```
<...
paymentTypeScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PaymentType">
  <xsd:simpleContent>
    <xsd:extension base="Scheme" >
      <xsd:attribute name="paymentTypeScheme" type="xsd:anyURI" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Period**

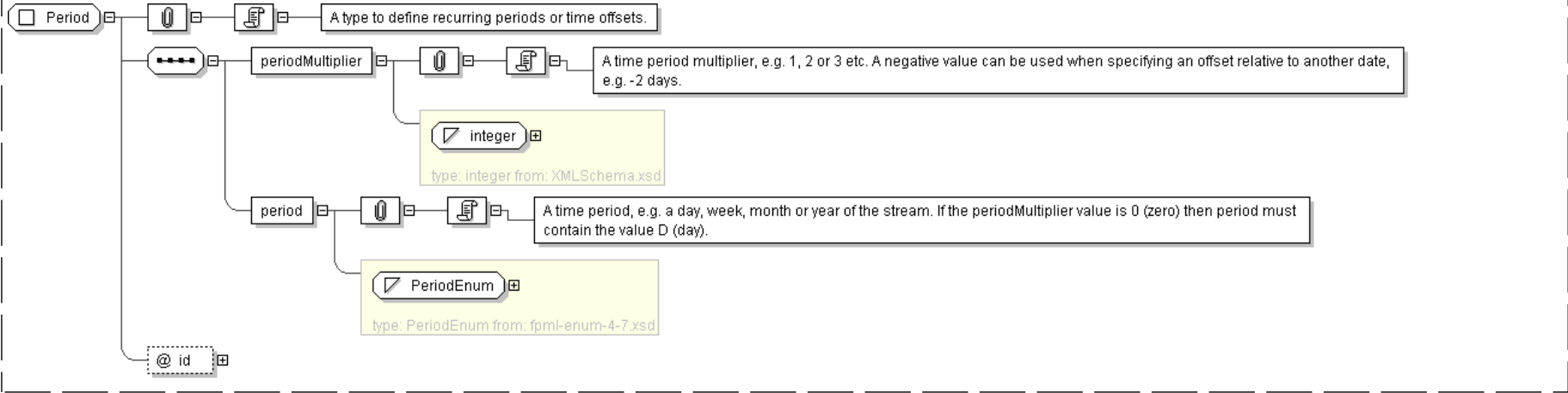


Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">Offset</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">DateOffset</a> (by extension)</li><li>◦ <a href="#">RelativeDateOffset</a> (by extension)<ul style="list-style-type: none"><li>▪ <a href="#">AdjustedRelativeDateOffset</a> (by extension)</li><li>▪ <a href="#">RelativeDates</a> (by extension)</li></ul></li></ul></li></ul>
Name	Period
Used by (from the same schema document)	Complex Type <a href="#">ForecastRateIndex</a> , Model Group <a href="#">FloatingRateIndex.model</a>
Abstract	no
Documentation	A type to define recurring periods or time offsets.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <periodMultiplier> xsd:integer </periodMultiplier> [1]  
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying  
  an offset relative to another date, e.g. -2 days.'  
  
  <period> PeriodEnum </period> [1]  
  'A time period, e.g. a day, week, month or year of the stream. If the periodMultiplier value  
  is 0 (zero) then period must contain the value D (day).'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Period">  
  <xsd:sequence>  
    <xsd:element name="periodMultiplier" type=" xsd:integer " />  
    <xsd:element name="period" type=" PeriodEnum " />  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID " />  
</xsd:complexType>
```

Complex Type: PeriodicDates

Super-types:	None
--------------	------

Sub-types:	None
Name	PeriodicDates
Used by (from the same schema document)	Complex Type <a href="#">AdjustableRelativeOrPeriodicDates</a> , Complex Type <a href="#">AdjustableRelativeOrPeriodicDates2</a>
Abstract	no

XML Instance Representation

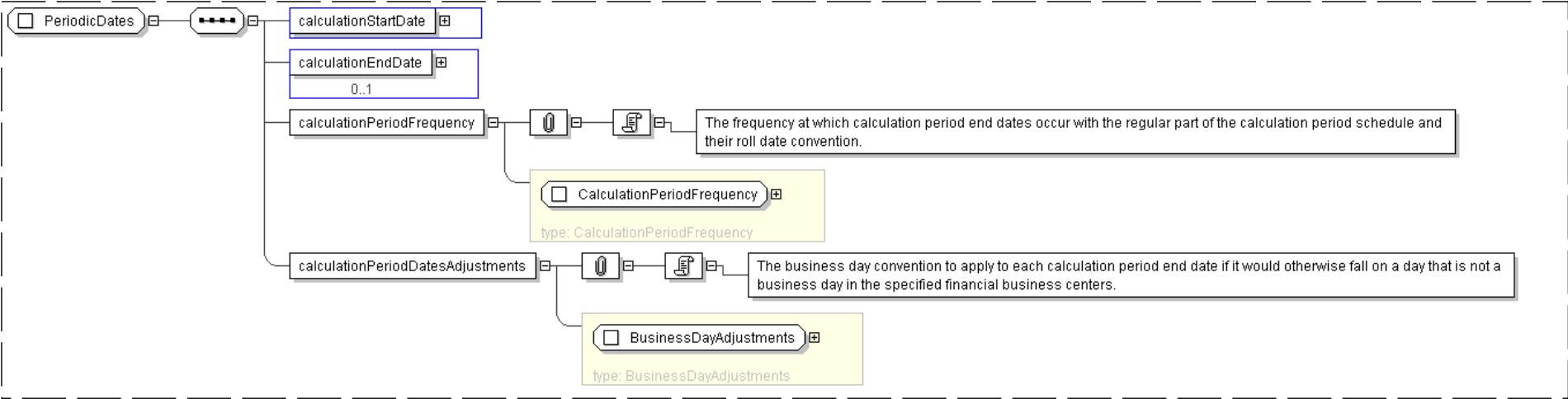
```
<...>
  <calculationStartDate> AdjustableOrRelativeDate </calculationStartDate> [1]
  <calculationEndDate> AdjustableOrRelativeDate </calculationEndDate> [0..1]
  <calculationPeriodFrequency> CalculationPeriodFrequency </calculationPeriodFrequency> [1]

  'The frequency at which calculation period end dates occur with the regular part of
  the calculation period schedule and their roll date convention.'

  <calculationPeriodDatesAdjustments> BusinessDayAdjustments </
  calculationPeriodDatesAdjustments> [1]

  'The business day convention to apply to each calculation period end date if it would
  otherwise fall on a day that is not a business day in the specified financial business centers.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PeriodicDates">
  <xsd:sequence>
    <xsd:element name="calculationStartDate" type=" AdjustableOrRelativeDate " />
    <xsd:element name="calculationEndDate" type=" AdjustableOrRelativeDate " minOccurs="0"/>
    <xsd:element name="calculationPeriodFrequency" type=" CalculationPeriodFrequency " />
    <xsd:element name="calculationPeriodDatesAdjustments" type=" BusinessDayAdjustments " />
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **PositiveAmountSchedule**

Super-types:	<a href="#">PositiveSchedule</a> < <b>PositiveAmountSchedule</b> (by extension)
Sub-types:	None

Name	PositiveAmountSchedule
------	------------------------

Abstract	no
Documentation	A type defining a currency amount or a currency amount schedule.

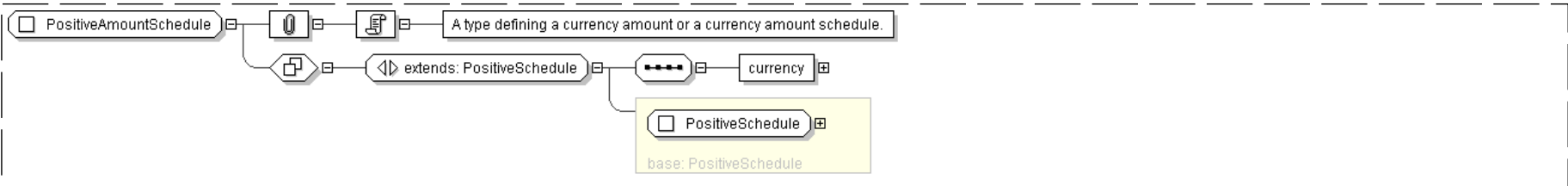
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <initialValue> PositiveDecimal </initialValue> [1]
  'The strictly-positive initial rate or amount, as the case may be. An initial rate of 5%
  would be represented as 0.05.'

  <step> PositiveStep </step> [0..*]
  'The schedule of step date and strictly-positive value pairs. On each step date the
  associated step value becomes effective. A list of steps may be ordered in the document
  by ascending step date. An FpML document containing an unordered list of steps is
  still regarded as a conformant document.'

  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositiveAmountSchedule">
  <xsd:complexContent>
    <xsd:extension base=" PositiveSchedule ">
      <xsd:sequence>
        <xsd:element name="currency" type=" Currency "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: PositiveMoney

Super-types:	<a href="#">MoneyBase</a> < <b>PositiveMoney</b> (by extension)
Sub-types:	None

Name	PositiveMoney
Used by (from the same schema document)	Complex Type <a href="#">PositivePayment</a>
Abstract	no
Documentation	A type defining a positive money amount

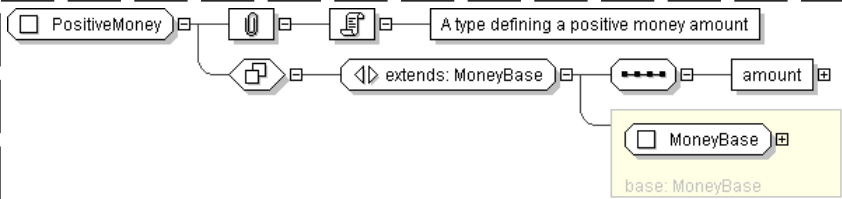
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <currency> Currency </currency> [1]
  'The currency in which an amount is denominated.'
```

```
<amount> PositiveDecimal </amount> [1]
'The positive monetary quantity in currency units.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositiveMoney">
  <xsd:complexContent>
    <xsd:extension base=" MoneyBase " >
      <xsd:sequence>
        <xsd:element name="amount" type=" PositiveDecimal "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **PositivePayment**

Super-types:	<a href="#">PaymentBase</a> < <a href="#">PaymentBaseExtended</a> (by extension) < <b>PositivePayment</b> (by extension)
Sub-types:	None

Name	PositivePayment
Abstract	no
Documentation	A complex type to specify positive payments.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

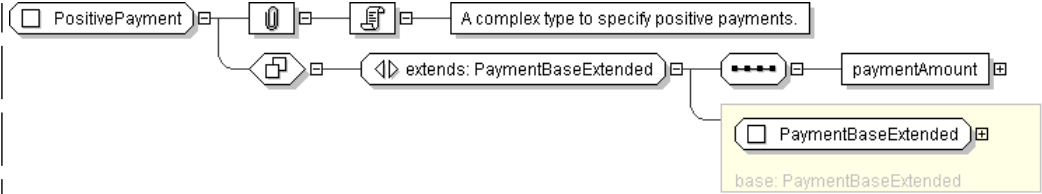
  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <paymentDate> AdjustableOrRelativeDate </paymentDate> [1]
  'The payment date, which can be expressed as either an adjustable or relative date.'

  <paymentAmount> PositiveMoney </paymentAmount> [1]
  'Positive payment amount.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositivePayment">
  <xsd:complexContent>
    <xsd:extension base="PaymentBaseExtended" />
    <xsd:sequence>
      <xsd:element name="paymentAmount" type="PositiveMoney" />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: PositiveSchedule

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">PositiveAmountSchedule</a> (by extension)</li></ul>

Name	PositiveSchedule
Abstract	no
Documentation	A type defining a schedule of strictly-positive rates or amounts in terms of an initial value and then a series of step date and value pairs. On each step date the rate or amount changes to the new step value. The series of step date and value pairs are optional. If not specified, this implies that the initial value remains unchanged over time.

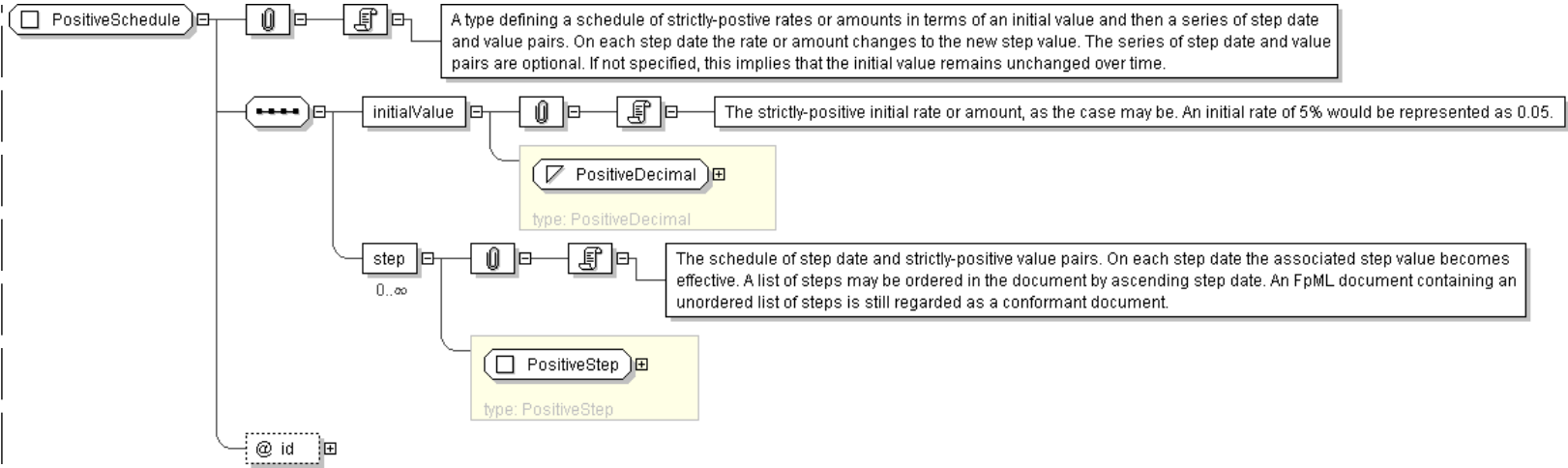
XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <initialValue> PositiveDecimal </initialValue> [1]
  'The strictly-positive initial rate or amount, as the case may be. An initial rate of 5%
  would be represented as 0.05.'

  <step> PositiveStep </step> [0..*]
  'The schedule of step date and strictly-positive value pairs. On each step date the
  associated step value becomes effective. A list of steps may be ordered in the document
  by ascending step date. An FpML document containing an unordered list of steps is
  still regarded as a conformant document.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositiveSchedule">
  <xsd:sequence>
    <xsd:element name="initialValue" type="PositiveDecimal" />
    <xsd:element name="step" type="PositiveStep" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

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Complex Type: PositiveStep

Super-types:	<a href="#">StepBase</a> < <b>PositiveStep</b> (by extension)
Sub-types:	None
Name	PositiveStep
Used by (from the same schema document)	Complex Type <a href="#">PositiveSchedule</a>
Abstract	no
Documentation	A type defining a step date and strictly-positive step value pair. This step definitions are used to define varying rate or amount schedules, e.g. a notional amortization or a step-up coupon schedule.

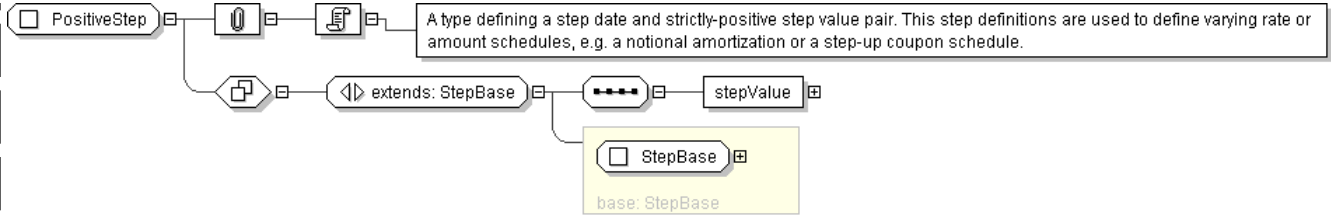
XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <stepDate> xsd:date </stepDate> [1]
  'The date on which the associated stepValue becomes effective. This day may be subject
  to adjustment in accordance with a business day convention.'

  <stepValue> PositiveDecimal </stepValue> [1]
  'The strictly positive rate or amount which becomes effective on the associated stepDate.
  A rate of 5% would be represented as 0.05.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PositiveStep">
  <xsd:complexContent>
    <xsd:extension base="StepBase">
      <xsd:sequence>
        <xsd:element name="stepValue" type="PositiveDecimal"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **PrevailingTime**

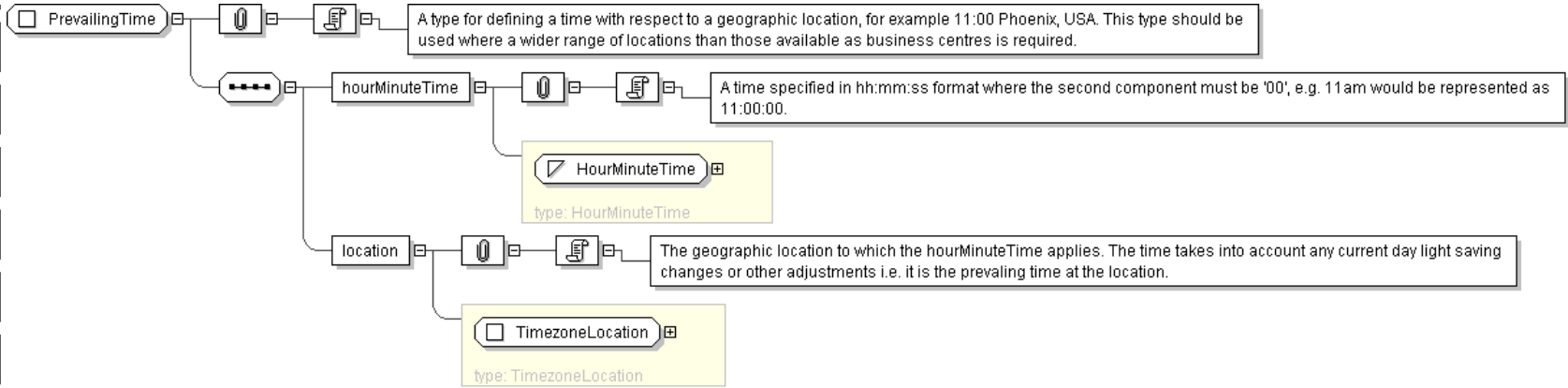
Super-types:	None
Sub-types:	None
Name	PrevailingTime
Used by (from the same schema document)	Complex Type <a href="#">OffsetPrevailingTime</a>
Abstract	no
Documentation	A type for defining a time with respect to a geographic location, for example 11:00 Phoenix, USA. This type should be used where a wider range of locations than those available as business centres is required.

XML Instance Representation

```
<...>
  <hourMinuteTime> HourMinuteTime </hourMinuteTime> [1]
  'A time specified in hh:mm:ss format where the second component must be \'00\' , e.g. 11am would be represented as 11:00:00.'

  <location> TimezoneLocation </location> [1]
  'The geographic location to which the hourMinuteTime applies. The time takes into account any current day light saving changes or other adjustments i.e. it is the prevailing time at the location.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrevailingTime">
  <xsd:sequence>
    <xsd:element name="hourMinuteTime" type=" HourMinuteTime " />
    <xsd:element name="location" type=" TimezoneLocation " />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: PricingStructure

Super-types:	None
Sub-types:	None
Name	PricingStructure
Abstract	yes
Documentation	An abstract pricing structure base type. Used as a base for structures such as yield curves and volatility matrices.

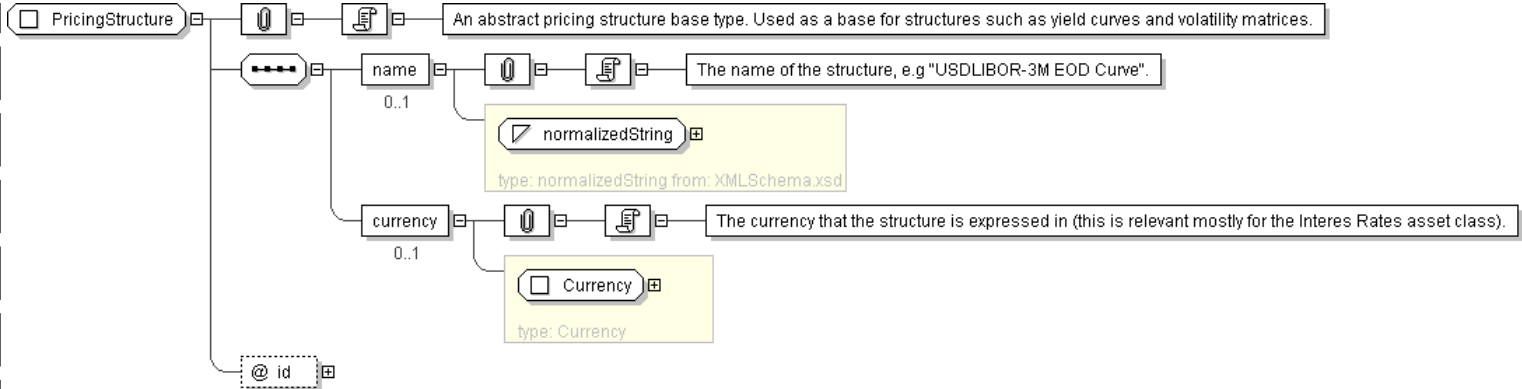
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <name> xsd:normalizedString </name> [0..1]
  'The name of the structure, e.g \"USDLIBOR-3M EOD Curve\".'

  <currency> Currency </currency> [0..1]
  'The currency that the structure is expressed in (this is relevant mostly for the Interes
  Rates asset class).'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="PricingStructure" abstract="true">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:normalizedString" minOccurs="0"/>
    <xsd:element name="currency" type="Currency" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **PricingStructureReference**

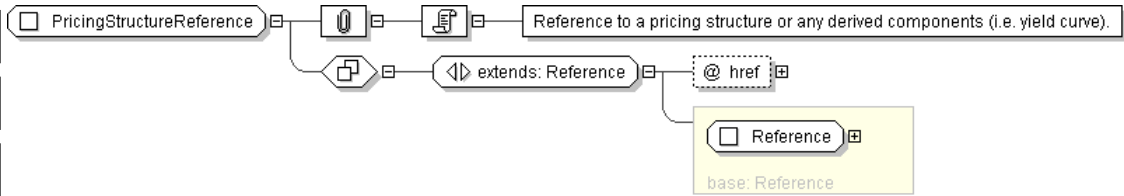
Super-types:	<a href="#">Reference</a> < <b>PricingStructureReference</b> (by extension)
Sub-types:	None

<b>Name</b>	PricingStructureReference
<b>Abstract</b>	no
<b>Documentation</b>	Reference to a pricing structure or any derived components (i.e. yield curve).

XML Instance Representation

```
<...
href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PricingStructureReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="PricingStructure"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

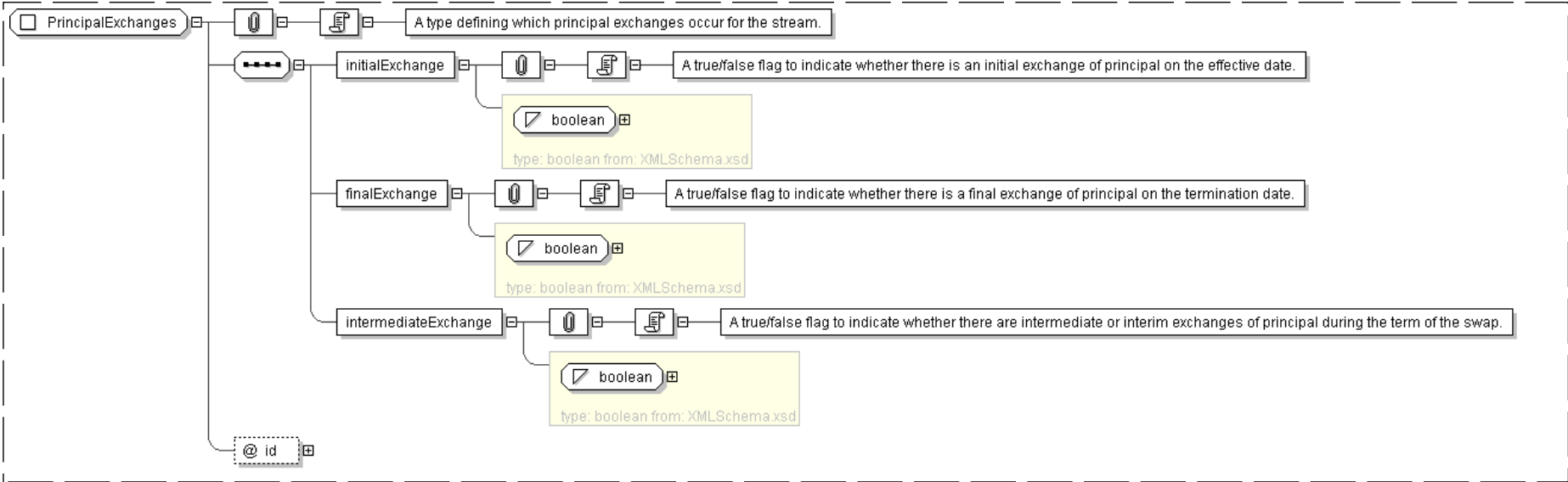
Complex Type: **PrincipalExchanges**

Super-types:	None
Sub-types:	None
Name	PrincipalExchanges
Abstract	no
Documentation	A type defining which principal exchanges occur for the stream.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <initialExchange> xsd:boolean </initialExchange> [1]  
  'A true/false flag to indicate whether there is an initial exchange of principal on  
  the effective date.'  
  
  <finalExchange> xsd:boolean </finalExchange> [1]  
  'A true/false flag to indicate whether there is a final exchange of principal on  
  the termination date.'  
  
  <intermediateExchange> xsd:boolean </intermediateExchange> [1]  
  'A true/false flag to indicate whether there are intermediate or interim exchanges of  
  principal during the term of the swap.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="PrincipalExchanges">  
  <xsd:sequence>  
    <xsd:element name="initialExchange" type=" xsd:boolean "/>  
    <xsd:element name="finalExchange" type=" xsd:boolean "/>  
    <xsd:element name="intermediateExchange" type=" xsd:boolean "/>  
  </xsd:sequence>  
</xsd:complexType>
```

Complex Type: Product

Super-types:	None
Sub-types:	None
Name	Product
Used by (from the same schema document)	Element <a href="#">product</a>
Abstract	yes
Documentation	The base type which all FpML products extend.

XML Instance Representation

```
<...
id="  xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Product" abstract="true">
  <xsd:group ref="  Product.model  "/>
  <xsd:attribute name="id" type="  xsd:ID  "/>
</xsd:complexType>
```

Complex Type: ProductId

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ProductId</b> (by extension)
Sub-types:	None

Name	ProductId
Used by (from the same schema document)	Model Group <a href="#">Product.model</a>
Abstract	no

XML Instance Representation

```
<...
productIdScheme="  xsd:anyURI [0..1]">
```

| [Scheme](#)  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="ProductId">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="productIdScheme" type=" xsd:anyURI "/">
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **ProductReference**

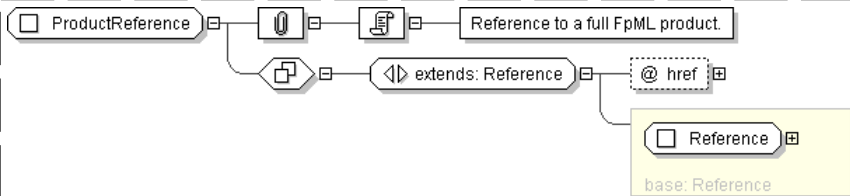
Super-types:	<a href="#">Reference</a> < <b>ProductReference</b> (by extension)
Sub-types:	None

Name	ProductReference
Abstract	no
Documentation	Reference to a full FpML product.

XML Instance Representation

<...  
 href=" [xsd:IDREF](#) [1]"/>

Diagram



Schema Component Representation

```
<xsd:complexType name="ProductReference">
  <xsd:complexContent>
    <xsd:extension base=" Reference " >
      <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="Product"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ProductType**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ProductType</b> (by extension)
Sub-types:	None
Name	ProductType
Used by (from the same schema document)	Model Group <a href="#">Product.model</a>
Abstract	no

XML Instance Representation

```
<...  
  productTypeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ProductType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="productTypeScheme" type=" xsd:anyURI " default="http://www.fpml.org/  
        coding-scheme/product-type-simple"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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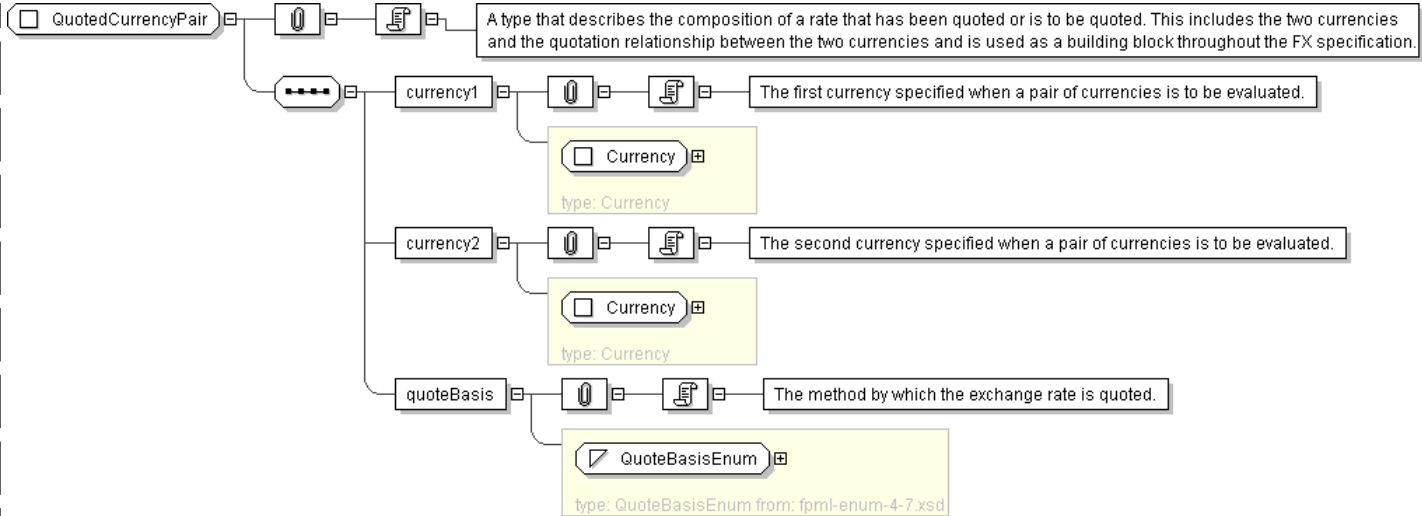
Complex Type: **QuotedCurrencyPair**

Super-types:	None
Sub-types:	None
Name	QuotedCurrencyPair
Used by (from the same schema document)	Complex Type <a href="#">FxFixing</a> , Complex Type <a href="#">FxRate</a>
Abstract	no
Documentation	A type that describes the composition of a rate that has been quoted or is to be quoted. This includes the two currencies and the quotation relationship between the two currencies and is used as a building block throughout the FX specification.

XML Instance Representation

```
<...>  
  <currency1> Currency </currency1> [1]  
  'The first currency specified when a pair of currencies is to be evaluated.'  
  <currency2> Currency </currency2> [1]  
  'The second currency specified when a pair of currencies is to be evaluated.'  
  <quoteBasis> QuoteBasisEnum </quoteBasis> [1]  
  'The method by which the exchange rate is quoted.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="QuotedCurrencyPair">
  <xsd:sequence>
    <xsd:element name="currency1" type="Currency" />
    <xsd:element name="currency2" type="Currency" />
    <xsd:element name="quoteBasis" type="QuoteBasisEnum" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Rate**

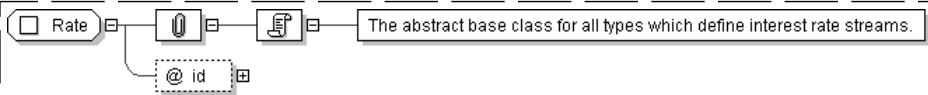
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">FloatingRate</a> (by extension)</li><li>◦ <a href="#">FloatingRateCalculation</a> (by extension)</li></ul>

Name	Rate
Abstract	yes
Documentation	The abstract base class for all types which define interest rate streams.

XML Instance Representation

```
<...
id="xsd:ID [0..1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Rate" abstract="true">
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **RateObservation**

Super-types:	None
Sub-types:	None
Name	RateObservation
Abstract	no
Documentation	A type defining parameters associated with an individual observation or fixing. This type forms part of the cashflow representation of a stream.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <resetDate> xsd:date </resetDate> [0..1]
  'The reset date.'

  <adjustedFixingDate> xsd:date </adjustedFixingDate> [0..1]
  'The adjusted fixing date, i.e. the actual date the rate is observed. The date should
  already be adjusted for any applicable business day convention.'

  <observedRate> xsd:decimal </observedRate> [0..1]
  'The actual observed rate before any required rate treatment is applied, e.g. before
  converting a rate quoted on a discount basis to an equivalent yield. An observed rate of
  5% would be represented as 0.05.'

  <treatedRate> xsd:decimal </treatedRate> [0..1]
  'The observed rate after any required rate treatment is applied. A treated rate of 5% would
  be represented as 0.05.'

  <observationWeight> xsd:positiveInteger </observationWeight> [1]
  'The number of days weighting to be associated with the rate observation, i.e. the number
  of days such rate is in effect. This is applicable in the case of a weighted average method
  of calculation where more than one reset date is established for a single calculation period.'

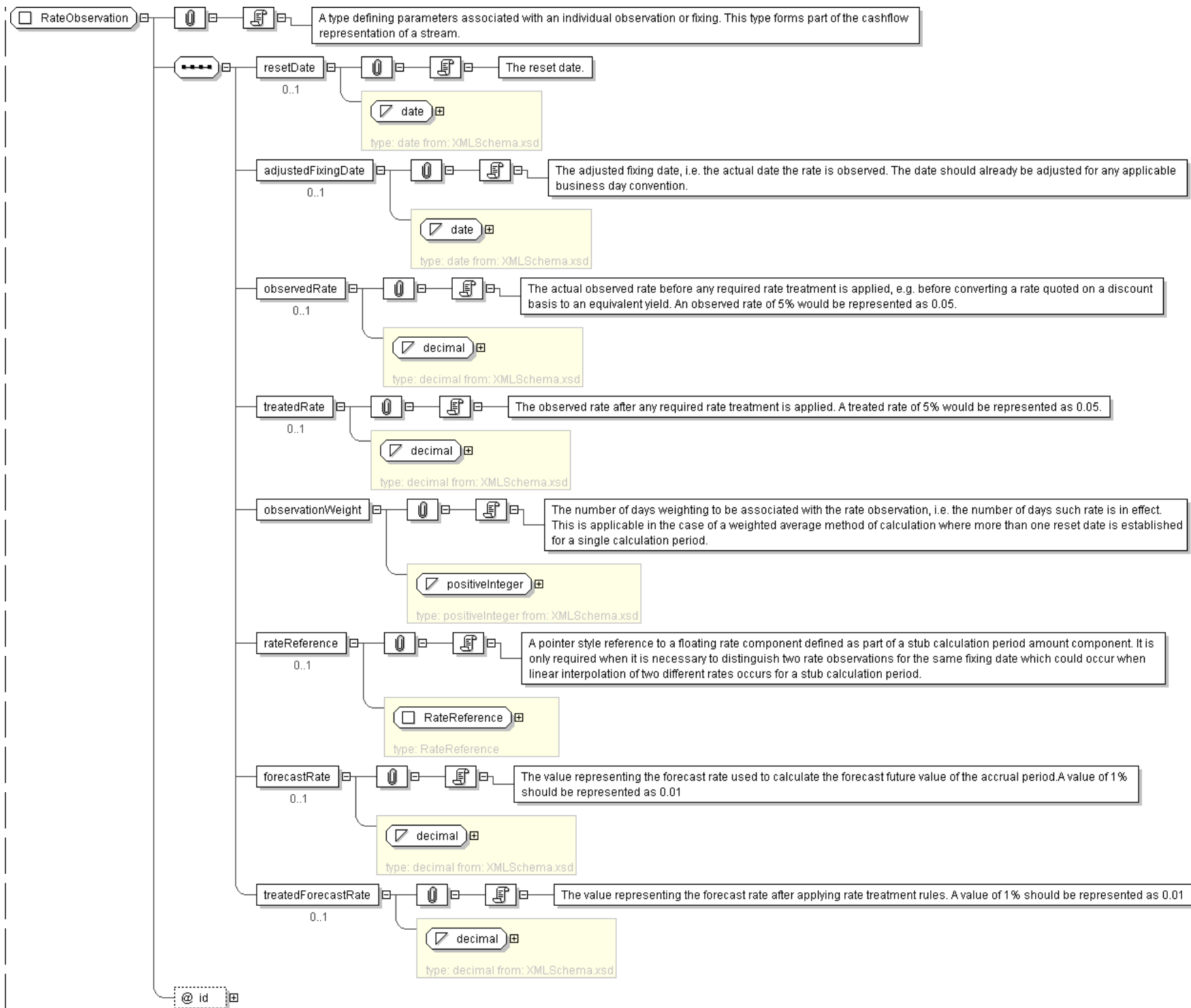
  <rateReference> RateReference </rateReference> [0..1]
  'A pointer style reference to a floating rate component defined as part of a stub
  calculation period amount component. It is only required when it is necessary to
  distinguish two rate observations for the same fixing date which could occur when
  linear interpolation of two different rates occurs for a stub calculation period.'

  <forecastRate> xsd:decimal </forecastRate> [0..1]
  'The value representing the forecast rate used to calculate the forecast future value of
  the accrual period.A value of 1% should be represented as 0.01'

  <treatedForecastRate> xsd:decimal </treatedForecastRate> [0..1]
  'The value representing the forecast rate after applying rate treatment rules. A value of
  1% should be represented as 0.01'

</...>
```

Diagram



## Schema Component Representation



```
<xsd:complexType name="RateObservation">
  <xsd:sequence>
    <xsd:element name="resetDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="adjustedFixingDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="observedRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="treatedRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="observationWeight" type="xsd:positiveInteger"/>
    <xsd:element name="rateReference" type="RateReference" minOccurs="0"/>
    <xsd:element name="forecastRate" type="xsd:decimal" minOccurs="0"/>
    <xsd:element name="treatedForecastRate" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

[top](#)

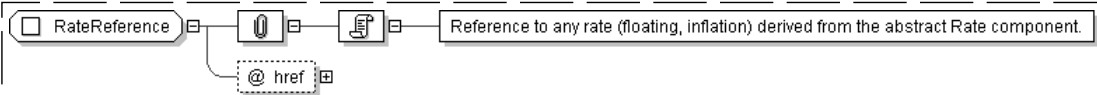
Complex Type: **RateReference**

Super-types:	None
Sub-types:	None
Name	RateReference
Used by (from the same schema document)	Complex Type <a href="#">RateObservation</a>
Abstract	no
Documentation	Reference to any rate (floating, inflation) derived from the abstract Rate component.

XML Instance Representation

```
<...
href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RateReference">
  <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="Rate"/>
</xsd:complexType>
```

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Complex Type: **RateSourcePage**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>RateSourcePage</b> (by extension)
Sub-types:	None
Name	RateSourcePage
Used by (from the same schema document)	Complex Type <a href="#">InformationSource</a>
Abstract	no

XML Instance Representation

```
<...
rateSourcePageScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RateSourcePage">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="rateSourcePageScheme" type=" xsd:anyURI " />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: Reference

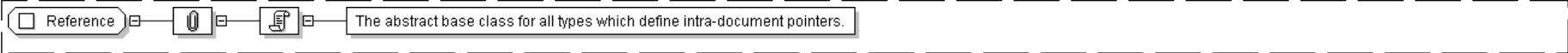
Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">AccountReference</a> (by extension)</li><li>• <a href="#">AmountReference</a> (by extension)</li><li>• <a href="#">BusinessCentersReference</a> (by extension)</li><li>• <a href="#">BusinessDayAdjustmentsReference</a> (by extension)</li><li>• <a href="#">DateReference</a> (by extension)</li><li>• <a href="#">DeterminationMethodReference</a> (by extension)</li><li>• <a href="#">IdentifiedCurrencyReference</a> (by extension)</li><li>• <a href="#">LegalEntityReference</a> (by extension)</li><li>• <a href="#">NotionalAmountReference</a> (by extension)</li><li>• <a href="#">NotionalReference</a> (by extension)</li><li>• <a href="#">PartyOrAccountReference</a> (by extension)</li><li>• <a href="#">PartyOrTradeSideReference</a> (by extension)</li><li>• <a href="#">PartyReference</a> (by extension)</li><li>• <a href="#">PaymentReference</a> (by extension)</li><li>• <a href="#">PricingStructureReference</a> (by extension)</li><li>• <a href="#">ProductReference</a> (by extension)</li><li>• <a href="#">ReturnSwapNotionalAmountReference</a> (by extension)</li><li>• <a href="#">ScheduleReference</a> (by extension)</li><li>• <a href="#">SpreadScheduleReference</a> (by extension)</li></ul>

Name	Reference
Abstract	yes
Documentation	The abstract base class for all types which define intra-document pointers.

XML Instance Representation

```
<.../>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Reference" abstract="true"/>
```

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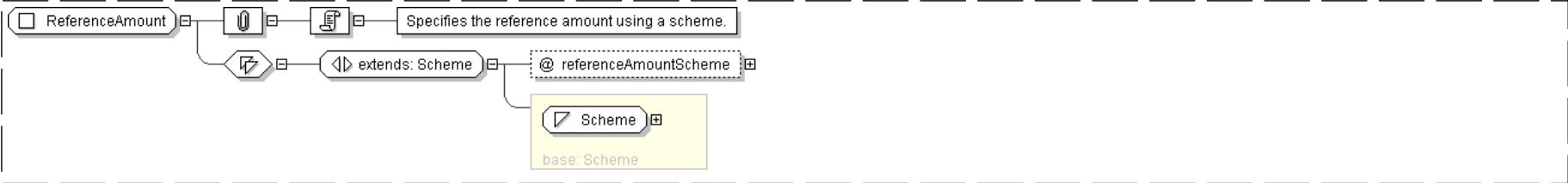
Complex Type: **ReferenceAmount**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ReferenceAmount</b> (by extension)
Sub-types:	None
Name	ReferenceAmount
Abstract	no
Documentation	Specifies the reference amount using a scheme.

XML Instance Representation

```
<...  
  referenceAmountScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReferenceAmount">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="referenceAmountScheme" type=" xsd:anyURI "/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

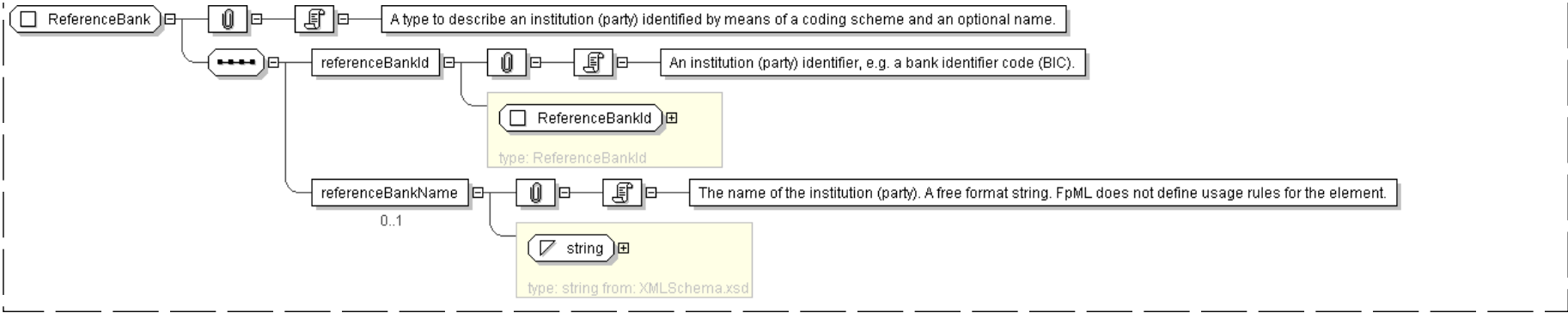
Complex Type: **ReferenceBank**

Super-types:	None
Sub-types:	None
Name	ReferenceBank
Used by (from the same schema document)	Complex Type <a href="#">CashSettlementReferenceBanks</a>
Abstract	no
Documentation	A type to describe an institution (party) identified by means of a coding scheme and an optional name.

XML Instance Representation

```
<...>  
  <referenceBankId> ReferenceBankId </referenceBankId> [1]  
  'An institution (party) identifier, e.g. a bank identifier code (BIC).'  
  
  <referenceBankName> xsd:string </referenceBankName> [0..1]  
  'The name of the institution (party). A free format string. FpML does not define usage  
  rules for the element.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReferenceBank">
  <xsd:sequence>
    <xsd:element name="referenceBankId" type="ReferenceBankId"/>
    <xsd:element name="referenceBankName" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: ReferenceBankId

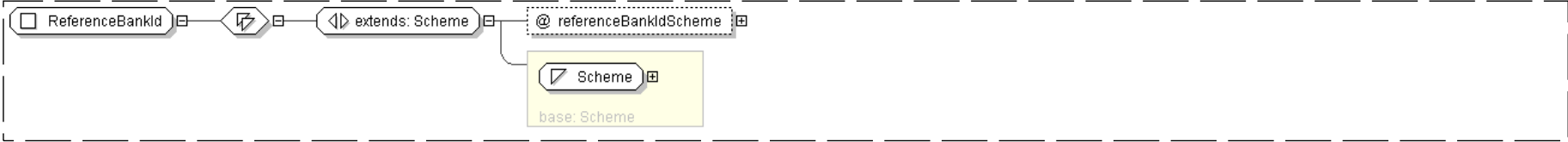
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>ReferenceBankId</b> (by extension)
Sub-types:	None

Name	ReferenceBankId
Used by (from the same schema document)	Complex Type <a href="#">ReferenceBank</a>
Abstract	no

XML Instance Representation

```
<...
referenceBankIdScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReferenceBankId">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="referenceBankIdScheme" type="xsd:anyURI"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **RelativeDateOffset**

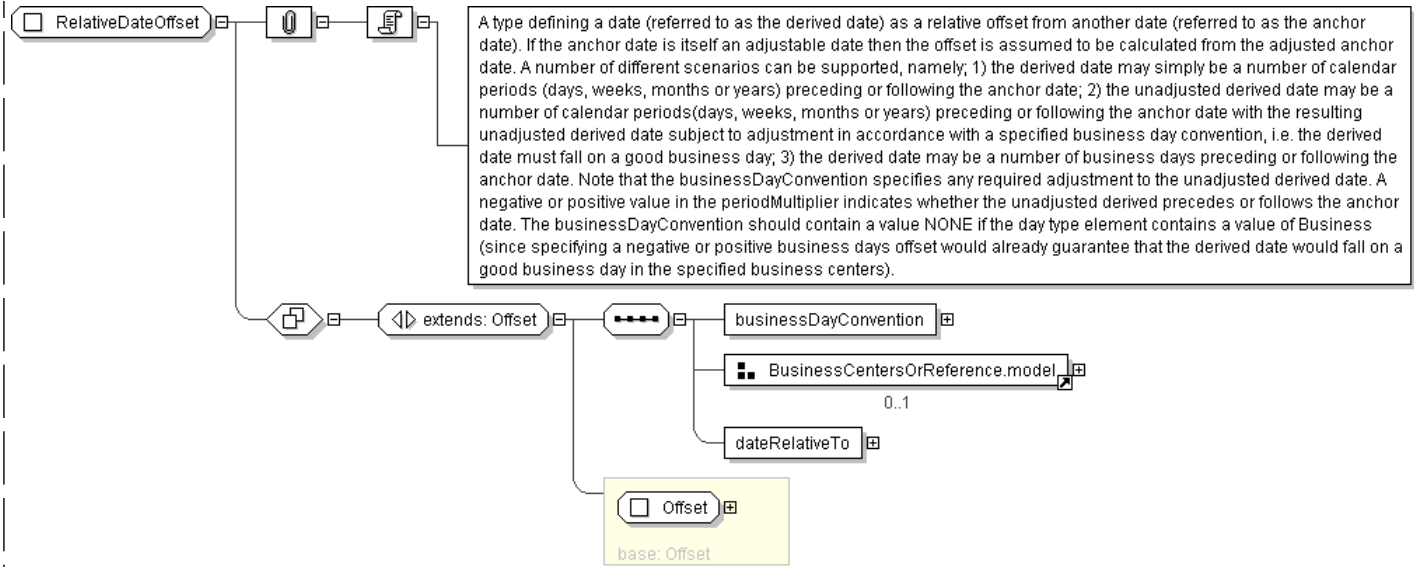
Super-types:	<a href="#">Period</a> < <a href="#">Offset</a> (by extension) < <b>RelativeDateOffset</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">AdjustedRelativeDateOffset</a> (by extension)</li><li><a href="#">RelativeDates</a> (by extension)</li></ul>

Name	RelativeDateOffset
Used by (from the same schema document)	Complex Type <a href="#">AdjustableDatesOrRelativeDateOffset</a> , Complex Type <a href="#">AdjustableOrRelativeDate</a> , Complex Type <a href="#">ExerciseFee</a> , Complex Type <a href="#">ExerciseFeeSchedule</a>
Abstract	no
Documentation	A type defining a date (referred to as the derived date) as a relative offset from another date (referred to as the anchor date). If the anchor date is itself an adjustable date then the offset is assumed to be calculated from the adjusted anchor date. A number of different scenarios can be supported, namely: 1) the derived date may simply be a number of calendar periods (days, weeks, months or years) preceding or following the anchor date; 2) the unadjusted derived date may be a number of calendar periods(days, weeks, months or years) preceding or following the anchor date with the resulting unadjusted derived date subject to adjustment in accordance with a specified business day convention, i.e. the derived date must fall on a good business day; 3) the derived date may be a number of business days preceding or following the anchor date. Note that the businessDayConvention specifies any required adjustment to the unadjusted derived date. A negative or positive value in the periodMultiplier indicates whether the unadjusted derived precedes or follows the anchor date. The businessDayConvention should contain a value NONE if the day type element contains a value of Business (since specifying a negative or positive business days offset would already guarantee that the derived date would fall on a good business day in the specified business centers).

XML Instance Representation

<pre>&lt;... id=" xsd:ID [0..1]"&gt;   &lt;periodMultiplier&gt; xsd:integer &lt;/periodMultiplier&gt; [1]   'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying   an offset relative to another date, e.g. -2 days.'    &lt;period&gt; PeriodEnum &lt;/period&gt; [1]   'A time period, e.g. a day, week, month or year of the stream. If the periodMultiplier value   is 0 (zero) then period must contain the value D (day).'    &lt;dayType&gt; DayTypeEnum &lt;/dayType&gt; [0..1]   'In the case of an offset specified as a number of days, this element defines   whether consideration is given as to whether a day is a good business day or not. If a day   type of business days is specified then non-business days are ignored when calculating   the offset. The financial business centers to use for determination of business days   are implied by the context in which this element is used. This element must only be   included when the offset is specified as a number of days. If the offset is zero days then   the dayType element should not be included.'    &lt;businessDayConvention&gt; BusinessDayConventionEnum &lt;/businessDayConvention&gt; [1]   'The convention for adjusting a date if it would otherwise fall on a day that is not a   business day.'</pre>	
Start Group: <a href="#">BusinessCentersOrReference.model</a> [0..1]	
Start Choice [1]	
<pre>  &lt;businessCentersReference&gt; BusinessCentersReference &lt;/businessCentersReference&gt; [1]   'A pointer style reference to a set of financial business centers defined elsewhere in   the document. This set of business centers is used to determine whether a particular day is   a business day or not.'</pre>	
<pre>  &lt;businessCenters&gt; BusinessCenters &lt;/businessCenters&gt; [1]</pre>	
End Choice	
End Group: <a href="#">BusinessCentersOrReference.model</a>	
<pre>  &lt;dateRelativeTo&gt; DateReference &lt;/dateRelativeTo&gt; [1]   'Specifies the anchor as an href attribute. The href attribute value is a pointer   style reference to the element or component elsewhere in the document where the anchor date   is defined.'</pre>	
<pre>&lt;/...&gt;</pre>	

Diagram



Schema Component Representation

```
<xsd:complexType name="RelativeDateOffset">
  <xsd:complexContent>
    <xsd:extension base="Offset" />
    <xsd:sequence>
      <xsd:element name="businessDayConvention" type="BusinessDayConventionEnum" />
      <xsd:group ref="BusinessCentersOrReference.model" minOccurs="0"/>
      <xsd:element name="dateRelativeTo" type="DateReference" />
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **RelativeDateSequence**

Super-types:	None
Sub-types:	None

Name	RelativeDateSequence
Used by (from the same schema document)	Complex Type <a href="#">AdjustableRelativeOrPeriodicDates</a>
Abstract	no
Documentation	A type describing a date when this date is defined in reference to another date through one or several date offsets.

XML Instance Representation

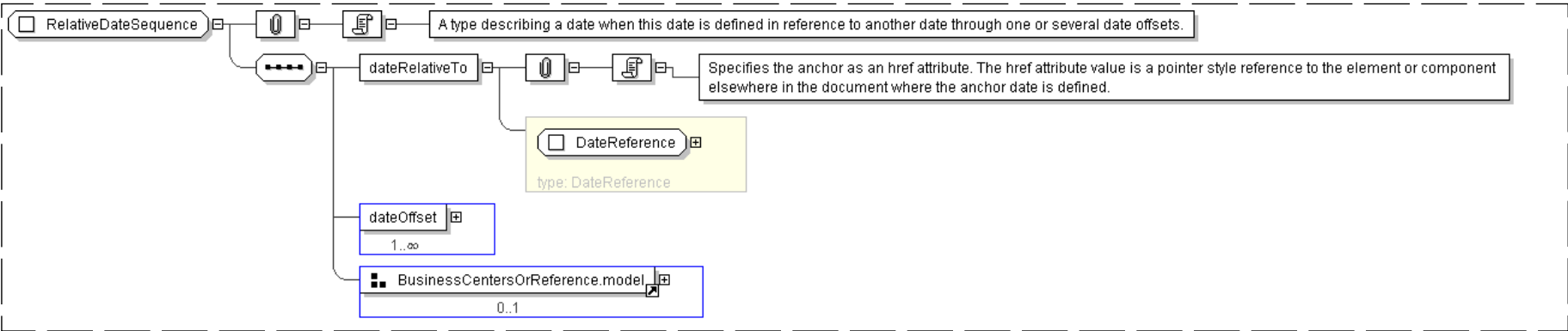
```
<...>
  <dateRelativeTo> DateReference </dateRelativeTo> [1]
  'Specifies the anchor as an href attribute. The href attribute value is a pointer
  style reference to the element or component elsewhere in the document where the anchor date
  is defined.'
  <dateOffset> DateOffset </dateOffset> [1..*]
  Start Group: BusinessCentersOrReference.model [0..1]
  Start Choice [1]
    <businessCentersReference> BusinessCentersReference </businessCentersReference> [1]
```

'A pointer style reference to a set of financial business centers defined elsewhere in the document. This set of business centers is used to determine whether a particular day is a business day or not.'

<businessCenters> [BusinessCenters](#) </businessCenters> [1]

End Choice  
End Group: [BusinessCentersOrReference.model](#)  
</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="RelativeDateSequence">
  <xsd:sequence>
    <xsd:element name="dateRelativeTo" type="DateReference" />
    <xsd:element name="dateOffset" type="DateOffset" maxOccurs="unbounded" />
    <xsd:group ref="BusinessCentersOrReference.model" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **RelativeDates**

Super-types:	<a href="#">Period</a> < <a href="#">Offset</a> (by extension) < <a href="#">RelativeDateOffset</a> (by extension) < <b>RelativeDates</b> (by extension)
Sub-types:	None

Name	RelativeDates
Used by (from the same schema document)	Complex Type <a href="#">AdjustableOrRelativeDates</a> , Complex Type <a href="#">AdjustableRelativeOrPeriodicDates2</a>
Abstract	no
Documentation	A type describing a set of dates defined as relative to another set of dates.

XML Instance Representation

```
<...
id="xsd:ID [0..1]">
  <periodMultiplier xsd:integer /> [1]
  'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying
  an offset relative to another date, e.g. -2 days.'

  <period> PeriodEnum </period> [1]
  'A time period, e.g. a day, week, month or year of the stream. If the periodMultiplier value
  is 0 (zero) then period must contain the value D (day).'
```

whether consideration is given as to whether a day is a good business day or not. If a day type of business days is specified then non-business days are ignored when calculating the offset. The financial business centers to use for determination of business days are implied by the context in which this element is used. This element must only be included when the offset is specified as a number of days. If the offset is zero days then the dayType element should not be included.'

```
<businessDayConvention> BusinessDayConventionEnum </businessDayConvention> [1]
```

'The convention for adjusting a date if it would otherwise fall on a day that is not a business day.'

Start Group: [BusinessCentersOrReference.model](#) [0..1]

Start [Choice](#) [1]

```
<businessCentersReference> BusinessCentersReference </businessCentersReference> [1]
```

'A pointer style reference to a set of financial business centers defined elsewhere in the document. This set of business centers is used to determine whether a particular day is a business day or not.'

```
<businessCenters> BusinessCenters </businessCenters> [1]
```

End Choice

End Group: [BusinessCentersOrReference.model](#)

```
<dateRelativeTo> DateReference </dateRelativeTo> [1]
```

'Specifies the anchor as an href attribute. The href attribute value is a pointer style reference to the element or component elsewhere in the document where the anchor date is defined.'

```
<periodSkip> xsd:positiveInteger </periodSkip> [0..1]
```

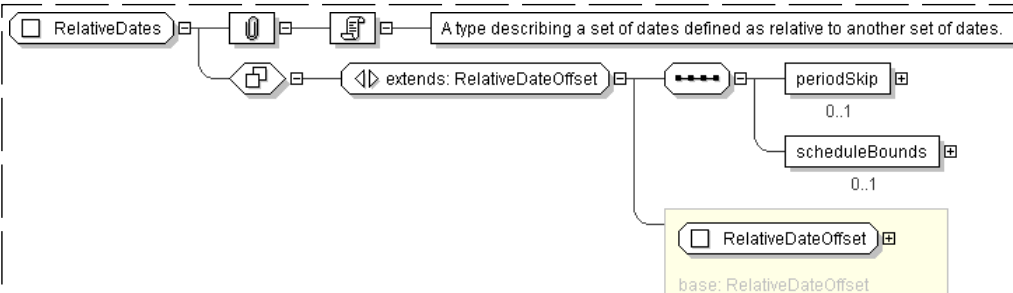
'The number of periods in the referenced date schedule that are between each date in the relative date schedule. Thus a skip of 2 would mean that dates are relative to every second date in the referenced schedule. If present this should have a value greater than 1.'

```
<scheduleBounds> DateRange </scheduleBounds> [0..1]
```

'The first and last dates of a schedule. This can be used to restrict the range of values in a reference series of dates.'

</...>

#### Diagram



#### Schema Component Representation

```
<xsd:complexType name="RelativeDates">
  <xsd:complexContent>
    <xsd:extension base="RelativeDateOffset" >
      <xsd:sequence>
        <xsd:element name="periodSkip" type="xsd:positiveInteger" minOccurs="0"/>
        <xsd:element name="scheduleBounds" type="DateRange" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



Complex Type: RequiredIdentifierDate

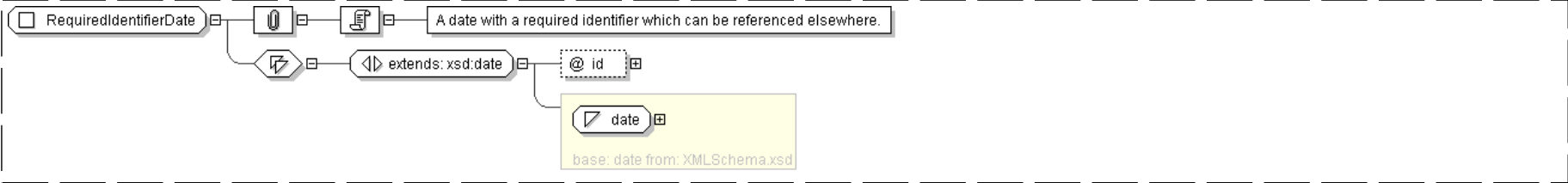
Super-types:	<a href="#">xsd:date</a> < <b>RequiredIdentifierDate</b> (by extension)
Sub-types:	None

Name	RequiredIdentifierDate
Abstract	no
Documentation	A date with a required identifier which can be referenced elsewhere.

XML Instance Representation

```
<...  
  id=" xsd:ID [1]">  
    xsd:date  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RequiredIdentifierDate">  
  <xsd:simpleContent>  
    <xsd:extension base=" xsd:date ">  
      <xsd:attribute name="id" type=" xsd:ID " use="required"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

Complex Type: ResetFrequency

Super-types:	<a href="#">Frequency</a> < <b>ResetFrequency</b> (by extension)
Sub-types:	None

Name	ResetFrequency
Abstract	no
Documentation	A type defining the reset frequency. In the case of a weekly reset, also specifies the day of the week that the reset occurs. If the reset frequency is greater than the calculation period frequency the this implies that more or more reset dates is established for each calculation period and some form of rate averaging is applicable. The specific averaging method of calculation is specified in FloatingRateCalculation. In case the reset frequency is of value T (term), the period is defined by the swap\swapStream\calculationPeriodDates\effectiveDate and the swap\swapStream\calculationPeriodDates\terminationDate.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <periodMultiplier> xsd:integer </periodMultiplier> [1]  
    'A time period multiplier, e.g. 1, 2 or 3 etc. A negative value can be used when specifying  
    an offset relative to another date, e.g. -2 days. If the period value is T (Term)  
    then periodMultiplier must contain the value 1.'  
  </...>
```

```
<period> PeriodExtendedEnum </period> [1]

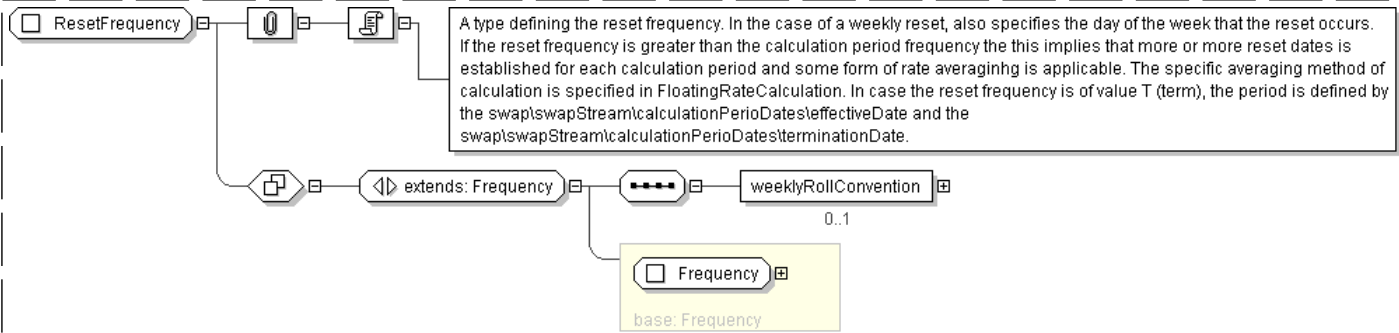
'A time period, e.g. a day, week, month, year or term of the stream. If the
periodMultiplier value is 0 (zero) then period must contain the value D (day).'
```

```
<weeklyRollConvention> WeeklyRollConventionEnum </weeklyRollConvention> [0..1]

'The day of the week on which a weekly reset date occurs. This element must be included if
the reset frequency is defined as weekly and not otherwise.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ResetFrequency">
  <xsd:complexContent>
    <xsd:extension base=" Frequency " >
      <xsd:sequence>
        <xsd:element name="weeklyRollConvention" type=" WeeklyRollConventionEnum " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **ReturnSwapNotionalAmountReference**

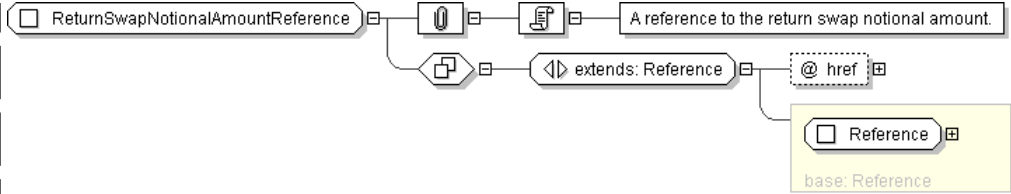
Super-types:	<a href="#">Reference</a> < <b>ReturnSwapNotionalAmountReference</b> (by extension)
Sub-types:	None

Name	ReturnSwapNotionalAmountReference
Abstract	no
Documentation	A reference to the return swap notional amount.

XML Instance Representation

```
<...
href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReturnSwapNotionalAmountReference">
  <xsd:complexContent>
    <xsd:extension base="Reference" >
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="NotionalAmount" />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Rounding**

Super-types:	None
Sub-types:	None

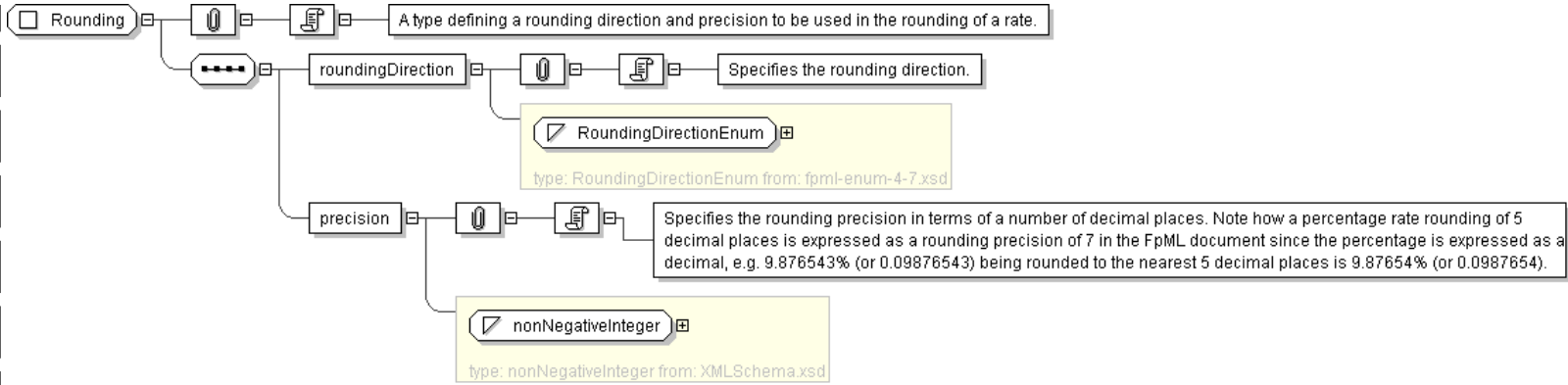
Name	Rounding
Used by (from the same schema document)	Complex Type <a href="#">FloatingRateCalculation</a>
Abstract	no
Documentation	A type defining a rounding direction and precision to be used in the rounding of a rate.

XML Instance Representation

```
<...>
  <roundingDirection> RoundingDirectionEnum </roundingDirection> [1]
  'Specifies the rounding direction.'

  <precision> xsd:nonNegativeInteger </precision> [1]
  'Specifies the rounding precision in terms of a number of decimal places. Note how a
  percentage rate rounding of 5 decimal places is expressed as a rounding precision of 7 in
  the FpML document since the percentage is expressed as a decimal, e.g. 9.876543%
  (or 0.09876543) being rounded to the nearest 5 decimal places is 9.87654% (or 0.0987654).'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Rounding">
  <xsd:sequence>
    <xsd:element name="roundingDirection" type="RoundingDirectionEnum" />
    <xsd:element name="precision" type="xsd:nonNegativeInteger" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Routing**

Super-types:	None
Sub-types:	None
Name	Routing
Used by (from the same schema document)	Complex Type <a href="#">SplitSettlement</a> , Complex Type <a href="#">SplitSettlement</a>
Abstract	no
Documentation	A type that provides three alternative ways of identifying a party involved in the routing of a payment. The identification may use payment system identifiers only; actual name, address and other reference information; or a combination of both.

XML Instance Representation

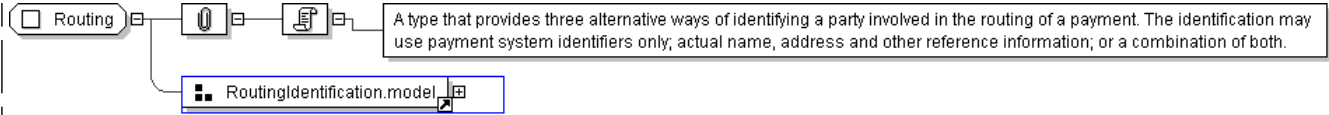
```
<...>
Start Choice [1]
  <routingIds> RoutingIds </routingIds> [1]
  'A set of unique identifiers for a party, eachone identifying the party within a payment system. The assumption is that each party will not have more than one identifier within the same payment system.'

  <routingExplicitDetails> RoutingExplicitDetails </routingExplicitDetails> [1]
  'A set of details that is used to identify a party involved in the routing of a payment when the party does not have a code that identifies it within one of the recognized payment systems.'

  <routingIdsAndExplicitDetails> RoutingIdsAndExplicitDetails </routingIdsAndExplicitDetails> [1]
  'A combination of coded payment system identifiers and details for physical addressing for a party involved in the routing of a payment.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Routing">
  <xsd:group ref=" RoutingIdentification.model " />
</xsd:complexType>
```

[top](#)

Complex Type: RoutingExplicitDetails

Super-types:	None
Sub-types:	None

Name	RoutingExplicitDetails
Used by (from the same schema document)	Model Group <a href="#">RoutingIdentification.model</a>
Abstract	no
Documentation	A type that models name, address and supplementary textual information for the purposes of identifying a party involved in the routing of a payment.

XML Instance Representation

```
<...>
  <routingName> xsd:string </routingName> [1]
  'A real name that is used to identify a party involved in the routing of a payment.'

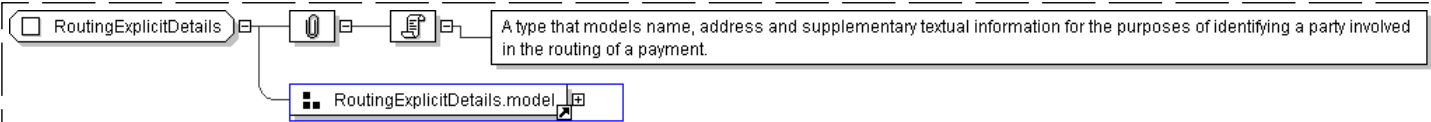
  <routingAddress> Address </routingAddress> [0..1]
  'A physical postal address via which a payment can be routed.'

  <routingAccountNumber> xsd:string </routingAccountNumber> [0..1]
  'An account number via which a payment can be routed.'

  <routingReferenceText> xsd:string </routingReferenceText> [0..*]
  'A piece of free-format text used to assist the identification of a party involved in
  the routing of a payment.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RoutingExplicitDetails">
  <xsd:group ref=" RoutingExplicitDetails.model " />
</xsd:complexType>
```

[top](#)

Complex Type: RoutingId

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>RoutingId</b> (by extension)
--------------	--

Sub-types:	None
Name	RoutingId
Used by (from the same schema document)	Complex Type <a href="#">RoutingIds</a>
Abstract	no

XML Instance Representation

```
<...  
  routingIdCodeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RoutingId">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="routingIdCodeScheme" type=" xsd:anyURI " default="http://www.fpml.org/  
        ext/iso9362"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

[top](#)

Complex Type: **RoutingIds**

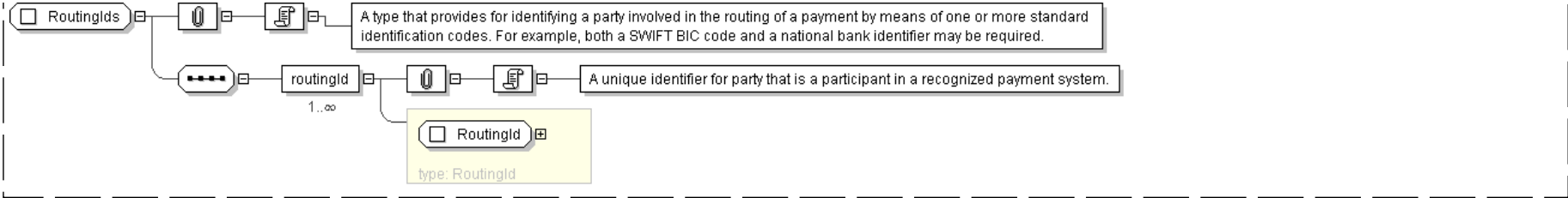
Super-types:	None
Sub-types:	None
Name	RoutingIds
Used by (from the same schema document)	Complex Type <a href="#">RoutingIdsAndExplicitDetails</a> , Model Group <a href="#">RoutingIdentification.model</a>
Abstract	no
Documentation	A type that provides for identifying a party involved in the routing of a payment by means of one or more standard identification codes. For example, both a SWIFT BIC code and a national bank identifier may be required.

XML Instance Representation

```
<...>  
  <routingId> RoutingId </routingId> [1..*]  
  'A unique identifier for party that is a participant in a recognized payment system.'  
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="RoutingIds">
  <xsd:sequence>
    <xsd:element name="routingId" type="RoutingId" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: RoutingIdsAndExplicitDetails

Super-types:	None
Sub-types:	None
Name	RoutingIdsAndExplicitDetails
Used by (from the same schema document)	Model Group <a href="#">RoutingIdentification.model</a>
Abstract	no
Documentation	A type that provides a combination of payment system identification codes with physical postal address details, for the purposes of identifying a party involved in the routing of a payment.

XML Instance Representation

```
<...>
  <routingIds RoutingIds </routingIds> [1..*]
    'A set of unique identifiers for a party, eachone identifying the party within a
    payment system. The assumption is that each party will not have more than one identifier
    within the same payment system.'

  <routingName xsd:string </routingName> [1]
    'A real name that is used to identify a party involved in the routing of a payment.'

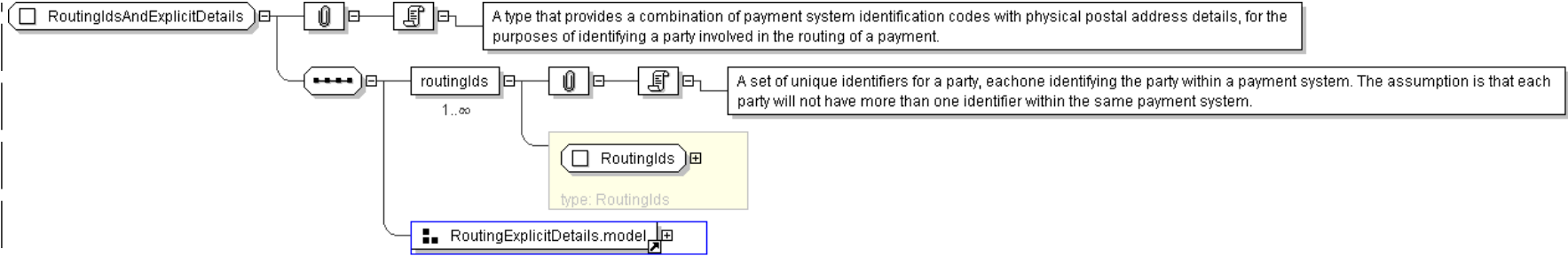
  <routingAddress Address </routingAddress> [0..1]
    'A physical postal address via which a payment can be routed.'

  <routingAccountNumber xsd:string </routingAccountNumber> [0..1]
    'An account number via which a payment can be routed.'

  <routingReferenceText xsd:string </routingReferenceText> [0..*]
    'A piece of free-format text used to assist the identification of a party involved in
    the routing of a payment.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="RoutingIdsAndExplicitDetails">
  <xsd:sequence>
    <xsd:element name="routingIds" type=" RoutingIds " maxOccurs="unbounded"/>
    <xsd:group ref=" RoutingExplicitDetails.model "/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Schedule**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">AmountSchedule</a> (by extension)</li><li>• <a href="#">SpreadSchedule</a> (by extension)</li><li>• <a href="#">StrikeSchedule</a> (by extension)</li></ul>

Name	Schedule
Used by (from the same schema document)	Complex Type <a href="#">ExerciseFeeSchedule</a> , Complex Type <a href="#">FloatingRate</a>
Abstract	no
Documentation	A type defining a schedule of rates or amounts in terms of an initial value and then a series of step date and value pairs. On each step date the rate or amount changes to the new step value. The series of step date and value pairs are optional. If not specified, this implies that the initial value remains unchanged over time.

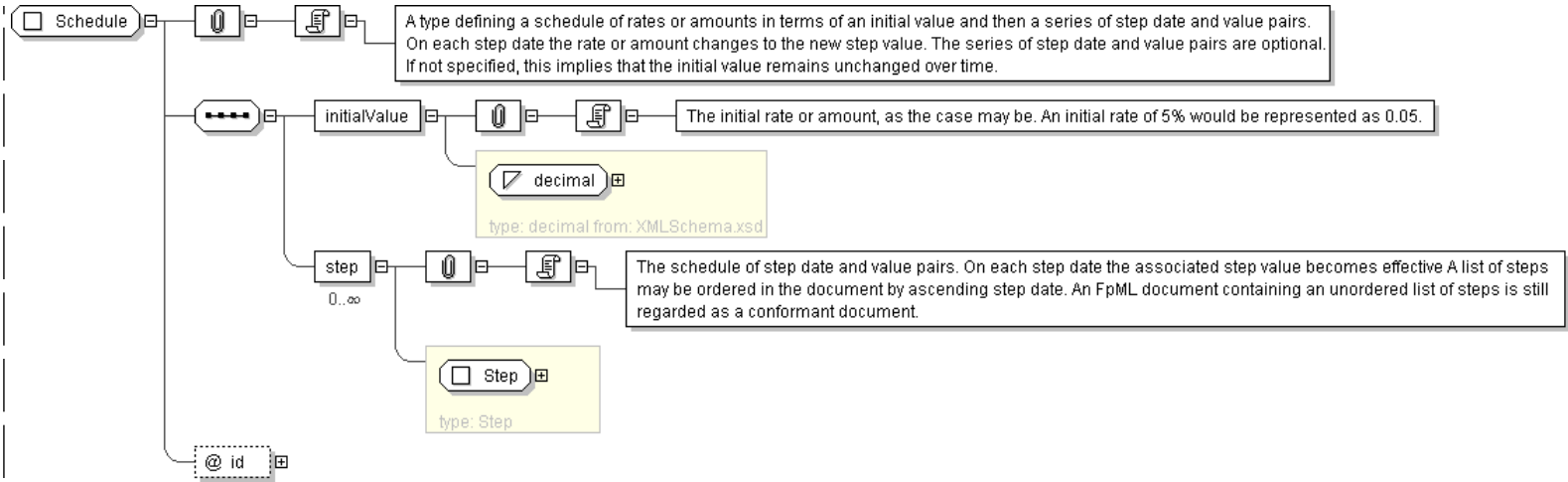
XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
<initialValue> xsd:decimal </initialValue> [1]
  'The initial rate or amount, as the case may be. An initial rate of 5% would be represented
  as 0.05.'

<step> Step </step> [0..*]
  'The schedule of step date and value pairs. On each step date the associated step value
  becomes effective A list of steps may be ordered in the document by ascending step date.
  An FpML document containing an unordered list of steps is still regarded as a
  conformant document.'
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Schedule">
  <xsd:sequence>
    <xsd:element name="initialValue" type="xsd:decimal" />
    <xsd:element name="step" type="Step" minOccurs="0" maxOccurs="unbounded" />
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

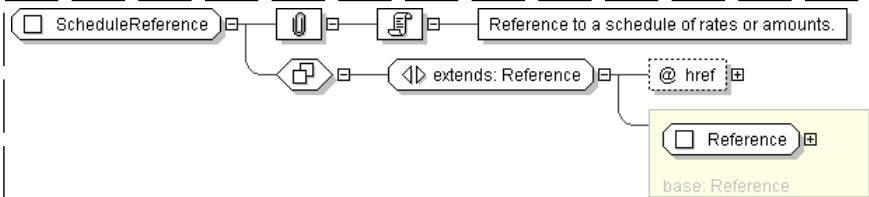
Complex Type: **ScheduleReference**

Super-types:	<a href="#">Reference</a> < <b>ScheduleReference</b> (by extension)
Sub-types:	None
Name	ScheduleReference
Used by (from the same schema document)	Complex Type <a href="#">ExerciseFeeSchedule</a>
Abstract	no
Documentation	Reference to a schedule of rates or amounts.

XML Instance Representation

```
<...
href="xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ScheduleReference">
  <xsd:complexContent>
```

```
<xsd:extension base=" Reference " >
  <xsd:attribute name="href" type=" xsd:IDREF " use="required" reference="Schedule"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **SettlementInformation**

Super-types:	None
Sub-types:	None
Name	SettlementInformation
Used by (from the same schema document)	Complex Type <a href="#">Payment</a>
Abstract	no
Documentation	A type that represents the choice of methods for settling a potential currency payment resulting from a trade: by means of a standard settlement instruction, by netting it out with other payments, or with an explicit settlement instruction.

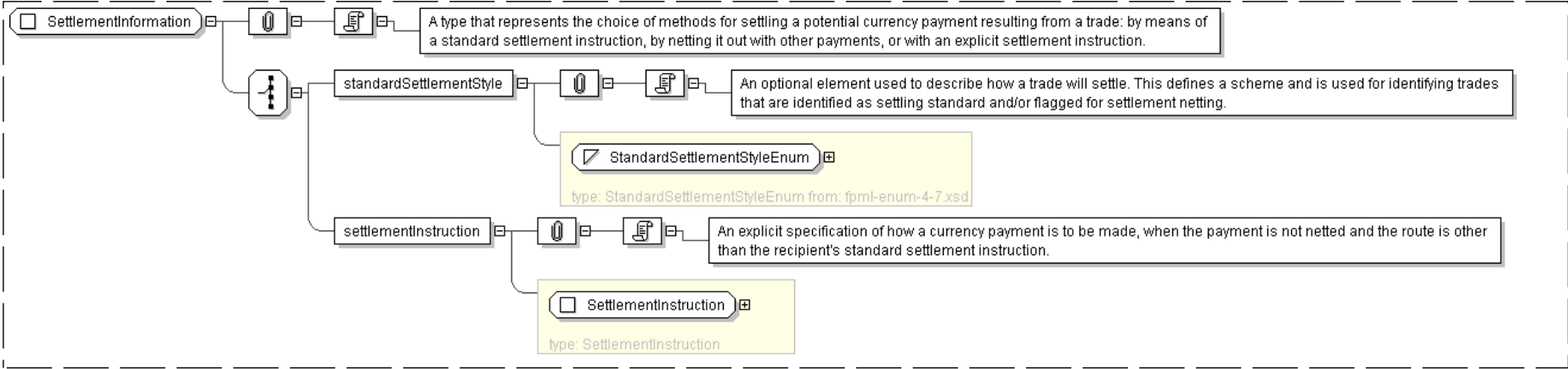
XML Instance Representation

```
<...>
Start Choice [1]
<standardSettlementStyle> StandardSettlementStyleEnum </standardSettlementStyle> [1]
'An optional element used to describe how a trade will settle. This defines a scheme and
is used for identifying trades that are identified as settling standard and/or flagged
for settlement netting.'

<settlementInstruction> SettlementInstruction </settlementInstruction> [1]
'An explicit specification of how a currency payment is to be made, when the payment is
not netted and the route is other than the recipient\'s standard settlement instruction.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementInformation">
  <xsd:choice>
    <xsd:element name="standardSettlementStyle" type=" StandardSettlementStyleEnum " />
    <xsd:element name="settlementInstruction" type=" SettlementInstruction " />
  </xsd:choice>
</xsd:complexType>
```

Complex Type: SettlementInstruction

Super-types:	None
Sub-types:	None
Name	SettlementInstruction
Used by (from the same schema document)	Complex Type <a href="#">SettlementInformation</a>
Abstract	no
Documentation	A type that models a complete instruction for settling a currency payment, including the settlement method to be used, the correspondent bank, any intermediary banks and the ultimate beneficiary.

XML Instance Representation

```
<...>
<settlementMethod> SettlementMethod </settlementMethod> [0..1]
'The mechanism by which settlement is to be made. The scheme of domain values will include standard mechanisms such as CLS, Fedwire, Chips ABA, Chips UID, SWIFT, CHAPS and DDA.'

<correspondentInformation> CorrespondentInformation </correspondentInformation> [0..1]
'The information required to identify the correspondent bank that will make delivery of the funds on the paying bank's behalf in the country where the payment is to be made'

<intermediaryInformation> IntermediaryInformation </intermediaryInformation> [0..*]
'Information to identify an intermediary through which payment will be made by the correspondent bank to the ultimate beneficiary of the funds.'

<beneficiaryBank> Beneficiary </beneficiaryBank> [0..1]
'The bank that acts for the ultimate beneficiary of the funds in receiving payments.'

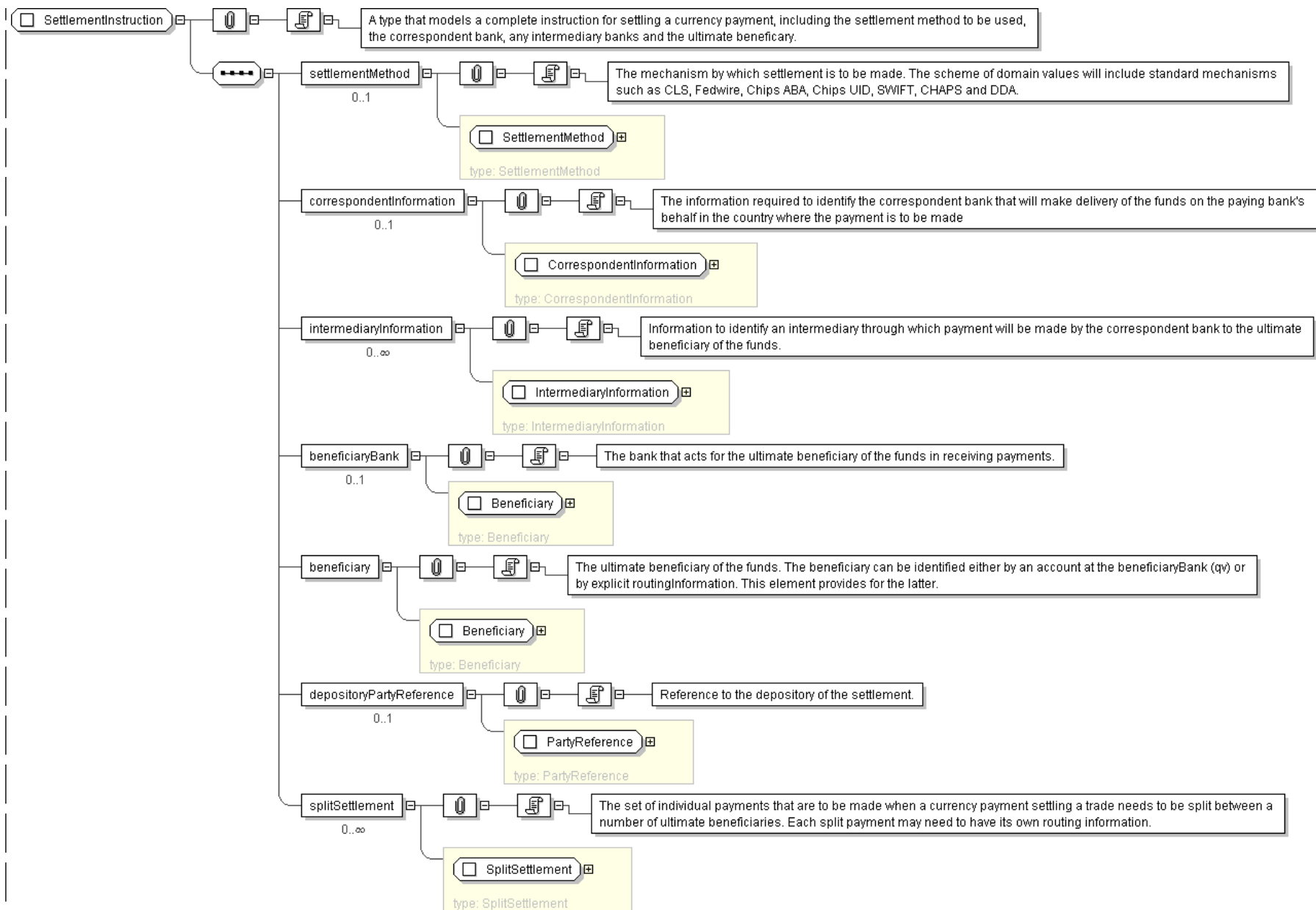
<beneficiary> Beneficiary </beneficiary> [1]
'The ultimate beneficiary of the funds. The beneficiary can be identified either by an account at the beneficiaryBank (qv) or by explicit routingInformation. This element provides for the latter.'

<depositoryPartyReference> PartyReference </depositoryPartyReference> [0..1]
'Reference to the depository of the settlement.'

<splitSettlement> SplitSettlement </splitSettlement> [0..*]
'The set of individual payments that are to be made when a currency payment settling a trade needs to be split between a number of ultimate beneficiaries. Each split payment may need to have its own routing information.'

</...>
```

Diagram



#### Schema Component Representation

```

<xsd:complexType name="SettlementInstruction">
  <xsd:sequence>
    <xsd:element name="settlementMethod" type="SettlementMethod" minOccurs="0"/>
    <xsd:element name="correspondentInformation" type="CorrespondentInformation" minOccurs="0"/>
    <xsd:element name="intermediaryInformation" type="IntermediaryInformation"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="beneficiaryBank" type="Beneficiary" minOccurs="0"/>
    <xsd:element name="beneficiary" type="Beneficiary" />
    <xsd:element name="depositoryPartyReference" type="PartyReference" minOccurs="0"/>
    <xsd:element name="splitSettlement" type="SplitSettlement"
  
```

Complex Type: **SettlementMethod**

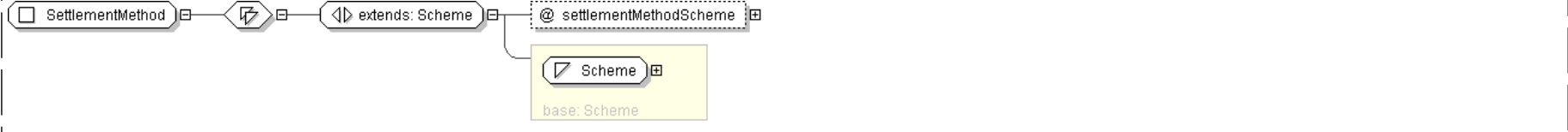
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>SettlementMethod</b> (by extension)
Sub-types:	None

Name	SettlementMethod
Used by (from the same schema document)	Complex Type <a href="#">SettlementInstruction</a>
Abstract	no

XML Instance Representation

```
<...
settlementMethodScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementMethod">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="settlementMethodScheme" type=" xsd:anyURI " default="http://www.fpml.
org/coding-scheme/settlement-method"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type: **SettlementPriceDefaultElection**

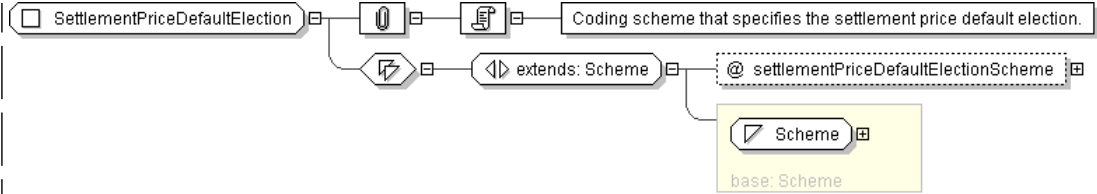
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>SettlementPriceDefaultElection</b> (by extension)
Sub-types:	None

Name	SettlementPriceDefaultElection
Abstract	no
Documentation	Coding scheme that specifies the settlement price default election.

XML Instance Representation

```
<...
settlementPriceDefaultElectionScheme=" xsd:anyURI [0..1]">
Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementPriceDefaultElection">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="settlementPriceDefaultElectionScheme" type=" xsd:anyURI "
        default="http://www.fpml.org/coding-scheme/settlement-price-default-election"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: SettlementPriceSource

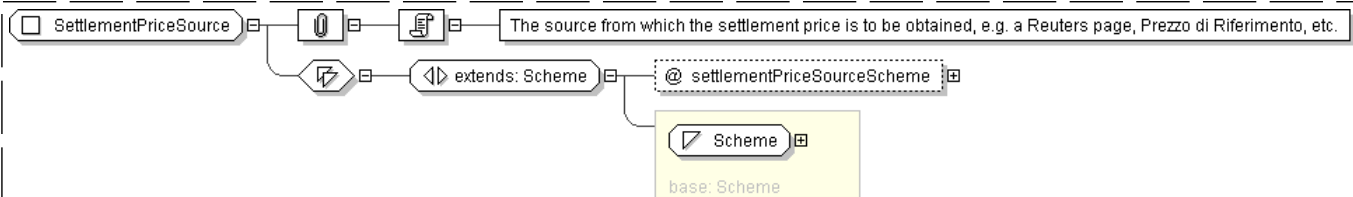
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>SettlementPriceSource</b> (by extension)
Sub-types:	None

Name	SettlementPriceSource
Abstract	no
Documentation	The source from which the settlement price is to be obtained, e.g. a Reuters page, Prezzo di Riferimento, etc.

XML Instance Representation

```
<...
  settlementPriceSourceScheme=" xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementPriceSource">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme " >
      <xsd:attribute name="settlementPriceSourceScheme" type=" xsd:anyURI " default="http://www.
        fpml.org/coding-scheme/settlement-price-source"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

Complex Type: SettlementRateSource

Super-types:	None
Sub-types:	None

Name	SettlementRateSource
Abstract	no
Documentation	A type describing the method for obtaining a settlement rate.

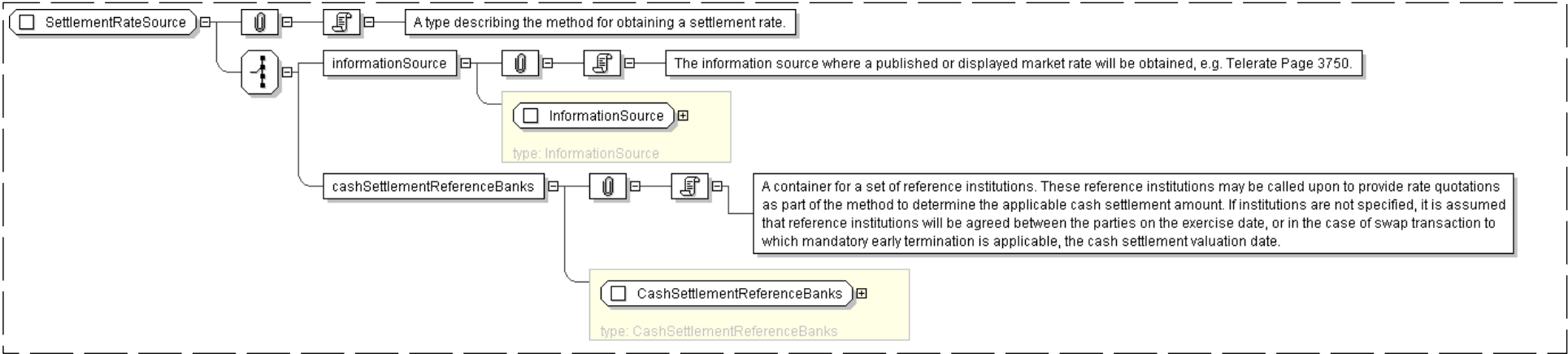
XML Instance Representation

```
<...>
Start Choice [1]
<informationSource> InformationSource </informationSource> [1]
  'The information source where a published or displayed market rate will be obtained, e.
  g. Telerate Page 3750.'

<cashSettlementReferenceBanks> CashSettlementReferenceBanks </cashSettlementReferenceBanks> [1]
  'A container for a set of reference institutions. These reference institutions may be
  called upon to provide rate quotations as part of the method to determine the applicable
  cash settlement amount. If institutions are not specified, it is assumed that
  reference institutions will be agreed between the parties on the exercise date, or in the
  case of swap transaction to which mandatory early termination is applicable, the
  cash settlement valuation date.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SettlementRateSource">
  <xsd:choice>
    <xsd:element name="informationSource" type=" InformationSource "/>
    <xsd:element name="cashSettlementReferenceBanks" type=" CashSettlementReferenceBanks "/>
  </xsd:choice>
</xsd:complexType>
```

Complex Type: SharedAmericanExercise

Super-types:	<a href="#">Exercise</a> < <b>SharedAmericanExercise</b> (by extension)
Sub-types:	None

Name	SharedAmericanExercise
Abstract	no
Documentation	TBA

XML Instance Representation

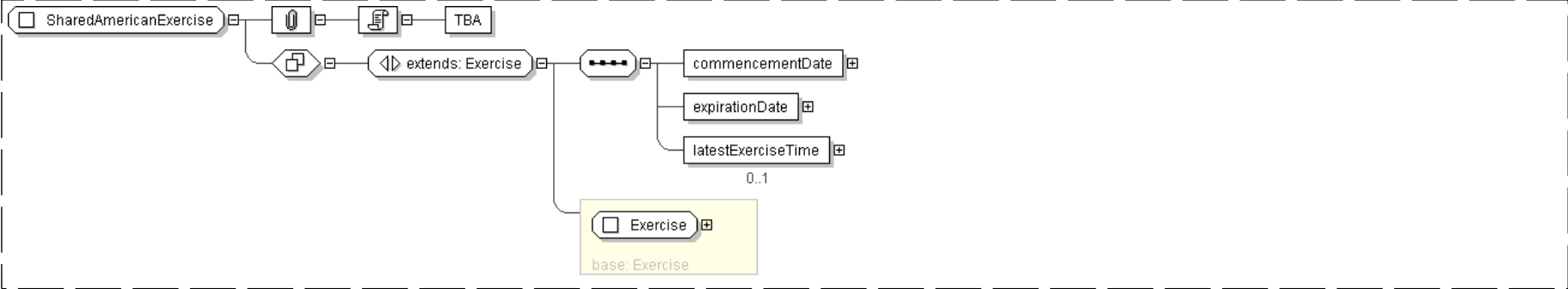
```
<...
  id="  xsd:ID [0..1]">
  <commencementDate> AdjustableOrRelativeDate </commencementDate> [1]
  'The first day of the exercise period for an American style option.'

  <expirationDate> AdjustableOrRelativeDate </expirationDate> [1]
  'The last day within an exercise period for an American style option. For a European
  style option it is the only day within the exercise period.'

  <latestExerciseTime> BusinessCenterTime </latestExerciseTime> [0..1]
  'For a Bermuda or American style option, the latest time on an exercise business day
  (excluding the expiration date) within the exercise period that notice can be given by
  the buyer to the seller or seller\'s agent. Notice of exercise given after this time will
  be deemed to have been given on the next exercise business day.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SharedAmericanExercise">
  <xsd:complexContent>
    <xsd:extension base=" Exercise " >
      <xsd:sequence>
        <xsd:element name="commencementDate" type=" AdjustableOrRelativeDate "/>
        <xsd:element name="expirationDate" type=" AdjustableOrRelativeDate "/>
        <xsd:element name="latestExerciseTime" type=" BusinessCenterTime " minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: SimplePayment

Super-types:	<a href="#">PaymentBase</a> < SimplePayment (by extension)
Sub-types:	None

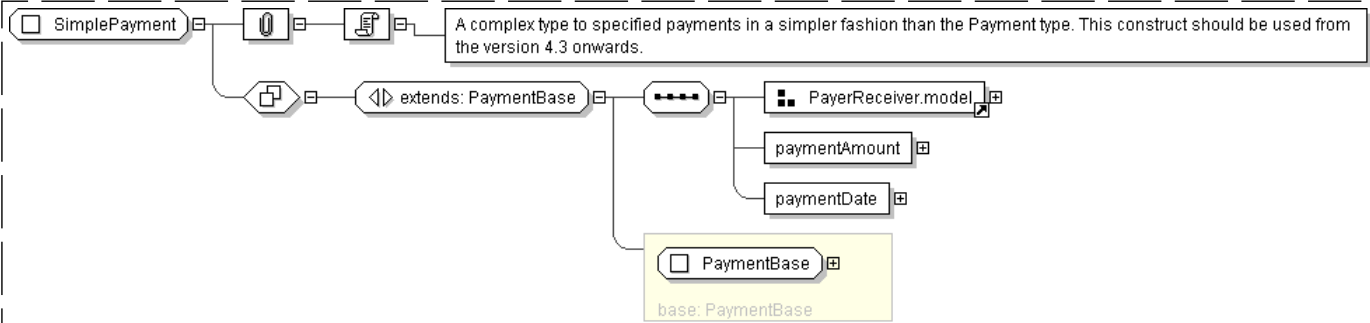
Name	SimplePayment
Abstract	no
Documentation	A complex type to specified payments in a simpler fashion than the Payment type. This construct should be used from the version 4.3 onwards.



XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]  
    'A reference to the party responsible for making the payments defined by this structure.'  
    <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]  
    'A reference to the party that receives the payments corresponding to this structure.'  
    <paymentAmount> Money </paymentAmount> [1]  
    <paymentDate> AdjustableOrRelativeAndAdjustedDate </paymentDate> [1]  
    'The payment date. This date is subject to adjustment in accordance with any  
    applicable business day convention.'  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SimplePayment">  
  <xsd:complexContent>  
    <xsd:extension base=" PaymentBase " >  
      <xsd:sequence>  
        <xsd:group ref=" PayerReceiver.model " />  
        <xsd:element name="paymentAmount" type=" Money " />  
        <xsd:element name="paymentDate" type=" AdjustableOrRelativeAndAdjustedDate " />  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

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Complex Type: SplitSettlement

Super-types:	None
Sub-types:	None
Name	SplitSettlement
Used by (from the same schema document)	Complex Type <a href="#">SettlementInstruction</a>
Abstract	no
Documentation	A type that supports the division of a gross settlement amount into a number of split settlements, each requiring its own settlement instruction.

XML Instance Representation

```
<...>
```

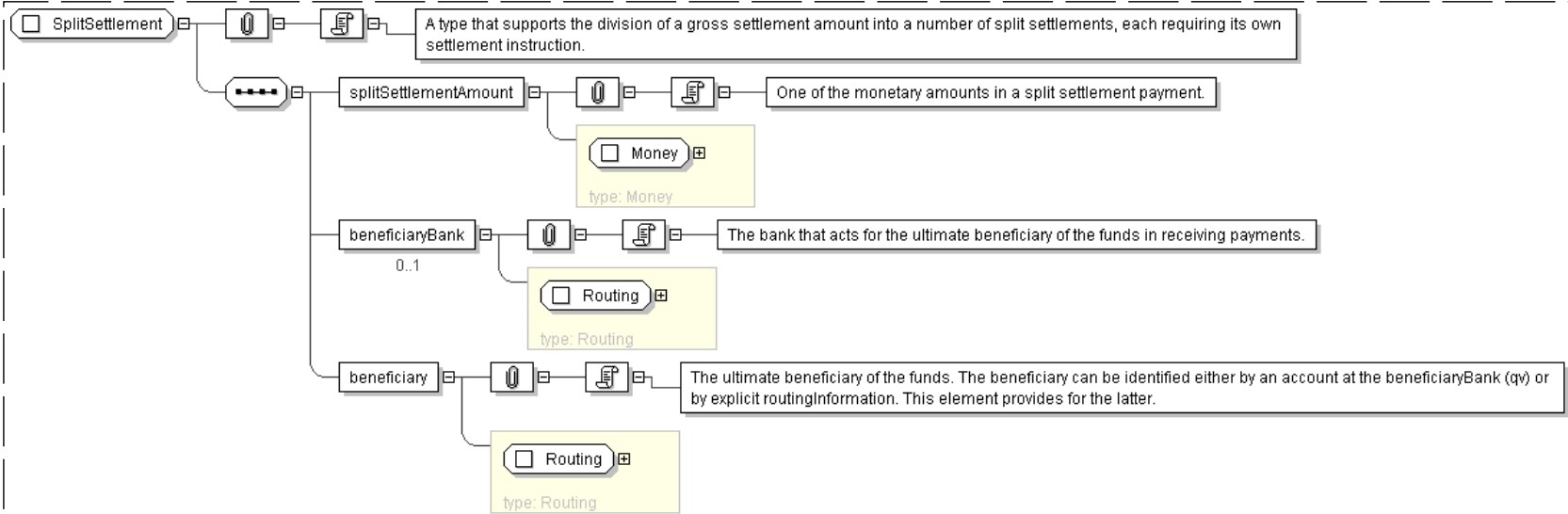
```
<splitSettlementAmount> Money </splitSettlementAmount> [1]
'One of the monetary amounts in a split settlement payment.'

<beneficiaryBank> Routing </beneficiaryBank> [0..1]
'The bank that acts for the ultimate beneficiary of the funds in receiving payments.'

<beneficiary> Routing </beneficiary> [1]
'The ultimate beneficiary of the funds. The beneficiary can be identified either by an
account at the beneficiaryBank (qv) or by explicit routingInformation. This element
provides for the latter.'
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="SplitSettlement">
  <xsd:sequence>
    <xsd:element name="splitSettlementAmount" type="Money" />
    <xsd:element name="beneficiaryBank" type="Routing" minOccurs="0"/>
    <xsd:element name="beneficiary" type="Routing" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

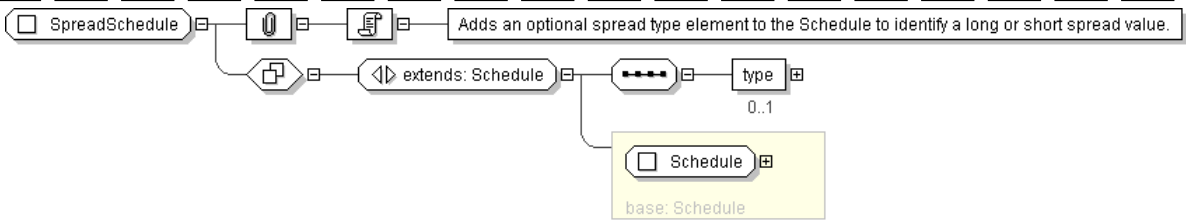
Complex Type: **SpreadSchedule**

Super-types:	<a href="#">Schedule</a> < <b>SpreadSchedule</b> (by extension)
Sub-types:	None
Name	SpreadSchedule
Used by (from the same schema document)	Complex Type <a href="#">FloatingRate</a>
Abstract	no
Documentation	Adds an optional spread type element to the Schedule to identify a long or short spread value.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <initialValue> xsd:decimal </initialValue> [1]  
  'The initial rate or amount, as the case may be. An initial rate of 5% would be represented  
  as 0.05.'  
  
  <step> Step </step> [0..*]  
  
  'The schedule of step date and value pairs. On each step date the associated step value  
  becomes effective A list of steps may be ordered in the document by ascending step date.  
  An FpML document containing an unordered list of steps is still regarded as a  
  conformant document.'  
  
  <type> SpreadScheduleType </type> [0..1]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SpreadSchedule">  
  <xsd:complexContent>  
    <xsd:extension base=" Schedule ">  
      <xsd:sequence>  
        <xsd:element name="type" type=" SpreadScheduleType " minOccurs="0"/>  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

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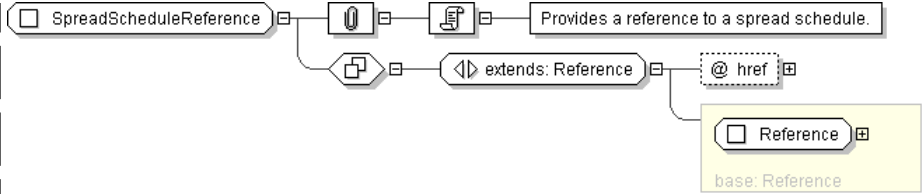
Complex Type: SpreadScheduleReference

Super-types:	<a href="#">Reference</a> < <b>SpreadScheduleReference</b> (by extension)
Sub-types:	None
Name	SpreadScheduleReference
Abstract	no
Documentation	Provides a reference to a spread schedule.

XML Instance Representation

```
<...  
href=" xsd:IDREF [1]"/>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SpreadScheduleReference">
  <xsd:complexContent>
    <xsd:extension base="Reference">
      <xsd:attribute name="href" type="xsd:IDREF" use="required" reference="SpreadSchedule"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: SpreadScheduleType

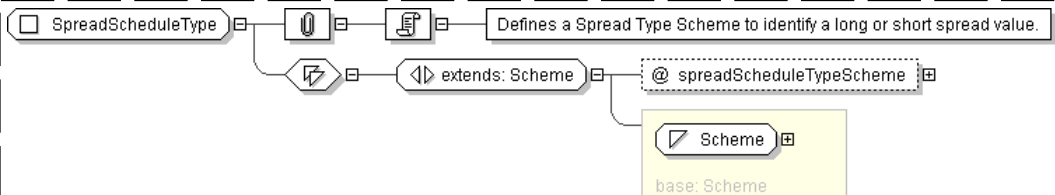
Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>SpreadScheduleType</b> (by extension)
Sub-types:	None

Name	SpreadScheduleType
Used by (from the same schema document)	Complex Type <a href="#">SpreadSchedule</a>
Abstract	no
Documentation	Defines a Spread Type Scheme to identify a long or short spread value.

XML Instance Representation

```
<...
spreadScheduleTypeScheme="xsd:anyURI [0..1]">
  Scheme
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SpreadScheduleType">
  <xsd:simpleContent>
    <xsd:extension base="Scheme">
      <xsd:attribute name="spreadScheduleTypeScheme" type="xsd:anyURI" default="http://www.fpml.org/coding-scheme/spread-schedule-type"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

[top](#)

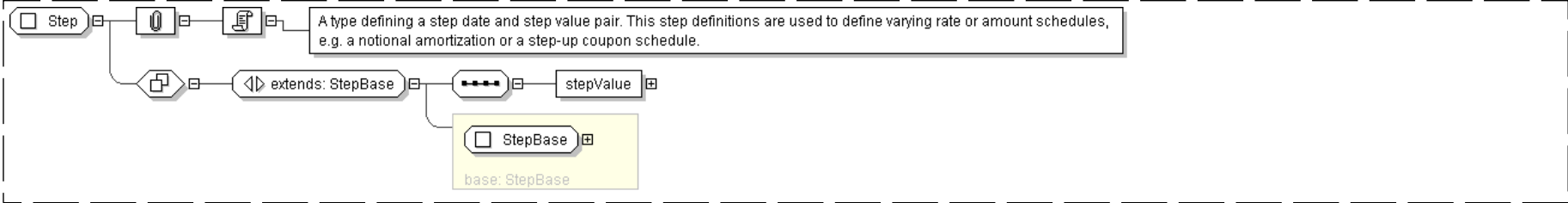
Complex Type: **Step**

Super-types:	<a href="#">StepBase</a> < <b>Step</b> (by extension)
Sub-types:	None
Name	Step
Used by (from the same schema document)	Complex Type <a href="#">Schedule</a>
Abstract	no
Documentation	A type defining a step date and step value pair. This step definitions are used to define varying rate or amount schedules, e.g. a notional amortization or a step-up coupon schedule.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]">  
    <stepDate> xsd:date </stepDate> [1]  
    'The date on which the associated stepValue becomes effective. This day may be subject  
    to adjustment in accordance with a business day convention.'  
  
    <stepValue> xsd:decimal </stepValue> [1]  
    'The rate or amount which becomes effective on the associated stepDate. A rate of 5% would  
    be represented as 0.05.'  
  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Step">  
  <xsd:complexContent>  
    <xsd:extension base=" StepBase " >  
      <xsd:sequence>  
        <xsd:element name="stepValue" type=" xsd:decimal " />  
      </xsd:sequence>  
    </xsd:extension>  
  </xsd:complexContent>  
</xsd:complexType>
```

[top](#)

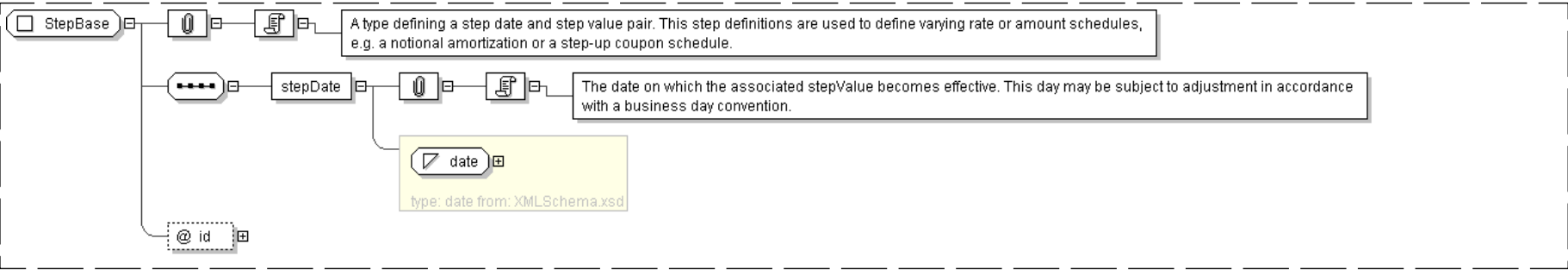
Complex Type: **StepBase**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">NonNegativeStep</a> (by extension)</li><li><a href="#">PositiveStep</a> (by extension)</li><li><a href="#">Step</a> (by extension)</li></ul>
Name	StepBase
Abstract	yes
Documentation	A type defining a step date and step value pair. This step definitions are used to define varying rate or amount schedules, e.g. a notional amortization or a step-up coupon schedule.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]">  
  <stepDate> xsd:date </stepDate> [1]  
  'The date on which the associated stepValue becomes effective. This day may be subject  
  to adjustment in accordance with a business day convention.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StepBase" abstract="true">  
  <xsd:sequence>  
    <xsd:element name="stepDate" type="xsd:date" />  
  </xsd:sequence>  
  <xsd:attribute name="id" type="xsd:ID" />  
</xsd:complexType>
```

[top](#)

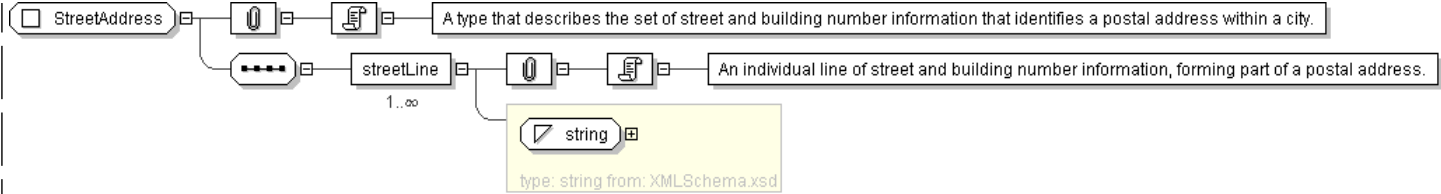
Complex Type: **StreetAddress**

Super-types:	None
Sub-types:	None
Name	StreetAddress
Used by (from the same schema document)	Complex Type <a href="#">Address</a>
Abstract	no
Documentation	A type that describes the set of street and building number information that identifies a postal address within a city.

XML Instance Representation

```
<...>  
<streetLine> xsd:string </streetLine> [1..*]  
  'An individual line of street and building number information, forming part of a  
  postal address.'  
  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StreetAddress">
  <xsd:sequence>
    <xsd:element name="streetLine" type="xsd:string" maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Strike**

Super-types:	None
Sub-types:	None

Name	Strike
Abstract	no
Documentation	A type describing a single cap or floor rate.

XML Instance Representation

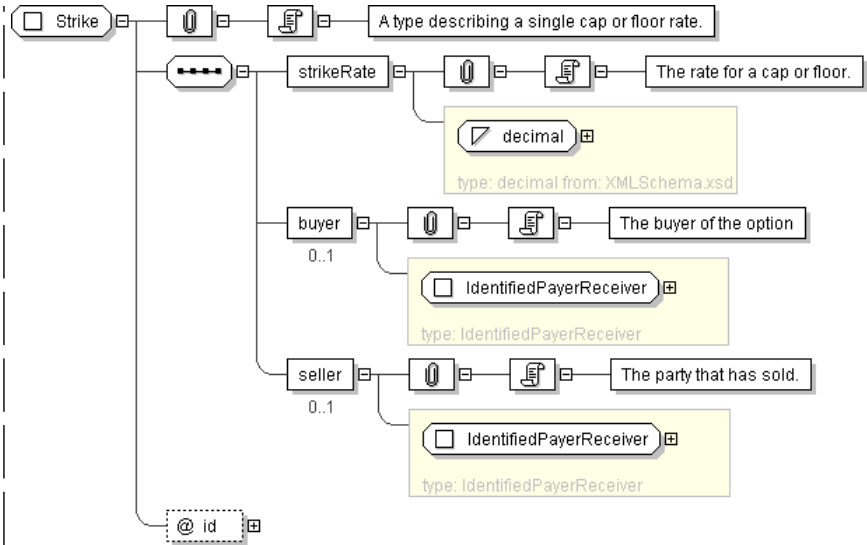
```
<...
id="xsd:ID [0..1]">
  <strikeRate> xsd:decimal </strikeRate> [1]
  'The rate for a cap or floor.'

  <buyer> IdentifiedPayerReceiver </buyer> [0..1]
  'The buyer of the option'

  <seller> IdentifiedPayerReceiver </seller> [0..1]
  'The party that has sold.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Strike">
  <xsd:sequence>
    <xsd:element name="strikeRate" type="xsd:decimal" />
    <xsd:element name="buyer" type="IdentifiedPayerReceiver" minOccurs="0"/>
    <xsd:element name="seller" type="IdentifiedPayerReceiver" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
```

[top](#)

Complex Type: **StrikeSchedule**

Super-types:	<a href="#">Schedule</a> < <b>StrikeSchedule</b> (by extension)
Sub-types:	None
Name	StrikeSchedule
Used by (from the same schema document)	Complex Type <a href="#">FloatingRate</a> , Complex Type <a href="#">FloatingRate</a>
Abstract	no
Documentation	A type describing a schedule of cap or floor rates.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <initialValue> xsd:decimal /> </initialValue> [1]
  'The initial rate or amount, as the case may be. An initial rate of 5% would be represented
  as 0.05.'

  <step> Step </step> [0..*]

  'The schedule of step date and value pairs. On each step date the associated step value
  becomes effective A list of steps may be ordered in the document by ascending step date.
  An FpML document containing an unordered list of steps is still regarded as a
  conformant document.'

  <buyer> IdentifiedPayerReceiver </buyer> [0..1]

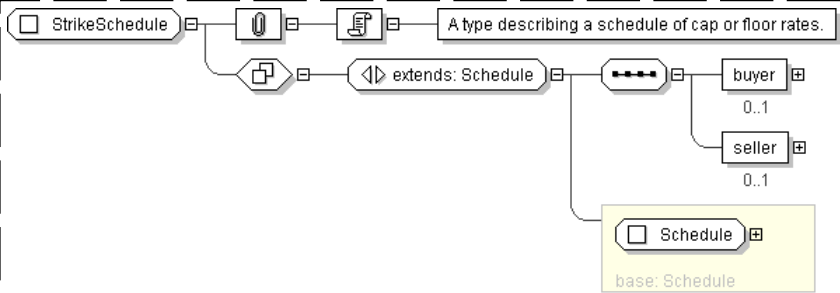
  'The buyer of the option'
```



```
<seller> IdentifiedPayerReceiver </seller> [0..1]
'The party that has sold.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StrikeSchedule">
  <xsd:complexContent>
    <xsd:extension base="Schedule" />
    <xsd:sequence>
      <xsd:element name="buyer" type="IdentifiedPayerReceiver" minOccurs="0"/>
      <xsd:element name="seller" type="IdentifiedPayerReceiver" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **Stub**

Super-types:	<a href="#">StubValue</a> < <b>Stub</b> (by extension)
Sub-types:	None
Name	Stub
Abstract	no
Documentation	A type defining how a stub calculation period amount is calculated and the start and end date of the stub. A single floating rate tenor different to that used for the regular part of the calculation periods schedule may be specified, or two floating rate tenors may be specified. If two floating rate tenors are specified then Linear Interpolation (in accordance with the 2000 ISDA Definitions, Section 8.3 Interpolation) is assumed to apply. Alternatively, an actual known Stub rate or stub amount may be specified.

XML Instance Representation

```
<...>
Start Choice [1]
<floatingRate> FloatingRate </floatingRate> [1..2]
'The rates to be applied to the initial or final stub may be the linear interpolation of two different rates. While the majority of the time, the rate indices will be the same as that specified in the stream and only the tenor itself will be different, it is possible to specift two different rates. For example, a 2 month stub period may use the linear interpolation of a 1 month and 3 month rate. The different rates would be specified in this component. Note that a maximum of two rates can be specified. If a stub period uses the same floating rate index, including tenor, as the regular calculation periods then this should not be specified again within this component, i.e. the stub calculation period amount component may not need to be specified even if there is an initial or final stub period. If a stub period uses a different floating rate index compared to the regular calculation periods then this should be specified within this component. If specified here, they are likely to have id attributes, allowing them to be referenced
```

```
from within the cashflows component.'
```

```
<stubRate> xsd:decimal </stubRate> [1]
```

```
'An actual rate to apply for the initial or final stub period may have been agreed between
the principal parties (in a similar way to how an initial rate may have been agreed for
the first regular period). If an actual stub rate has been agreed then it would be included
in this component. It will be a per annum rate, expressed as a decimal. A stub rate of 5%
would be represented as 0.05.'
```

```
<stubAmount> Money </stubAmount> [1]
```

```
'An actual amount to apply for the initial or final stub period may have been agreed between
th two parties. If an actual stub amount has been agreed then it would be included in
this component.'
```

End Choice

```
<stubStartDate> AdjustableOrRelativeDate </stubStartDate> [0..1]
```

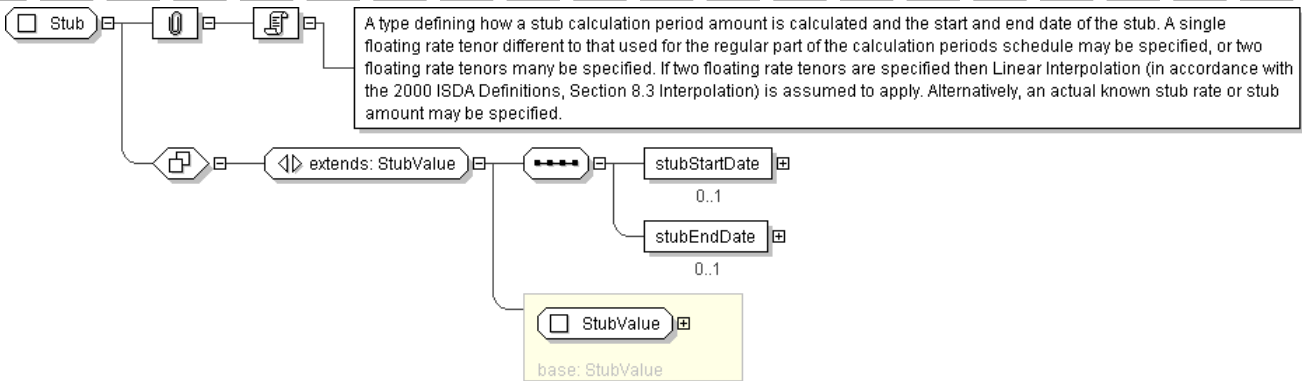
```
'Start date of stub period. This was created to support use of the InterestRateStream
within the Equity Derivative sphere, and this element is not expected to be produced in
the representation of Interest Rate products.'
```

```
<stubEndDate> AdjustableOrRelativeDate </stubEndDate> [0..1]
```

```
'End date of stub period. This was created to support use of the InterestRateStream within
the Equity Derivative sphere, and this element is not expected to be produced in
the representation of Interest Rate products.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Stub">
  <xsd:complexContent>
    <xsd:extension base="StubValue" />
    <xsd:sequence>
      <xsd:element name="stubStartDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
      <xsd:element name="stubEndDate" type="AdjustableOrRelativeDate" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type: StubValue

Super-types:	None
--------------	------

Sub-types:

- [Stub](#) (by extension)

Name	StubValue
Abstract	no
Documentation	A type defining how a stub calculation period amount is calculated. A single floating rate tenor different to that used for the regular part of the calculation periods schedule may be specified, or two floating rate tenors many be specified. If two floating rate tenors are specified then Linear Interpolation (in accordance with the 2000 ISDA Definitions, Section 8.3 Interpolation) is assumed to apply. Alternatively, an actual known stub rate or stub amount may be specified.

XML Instance Representation

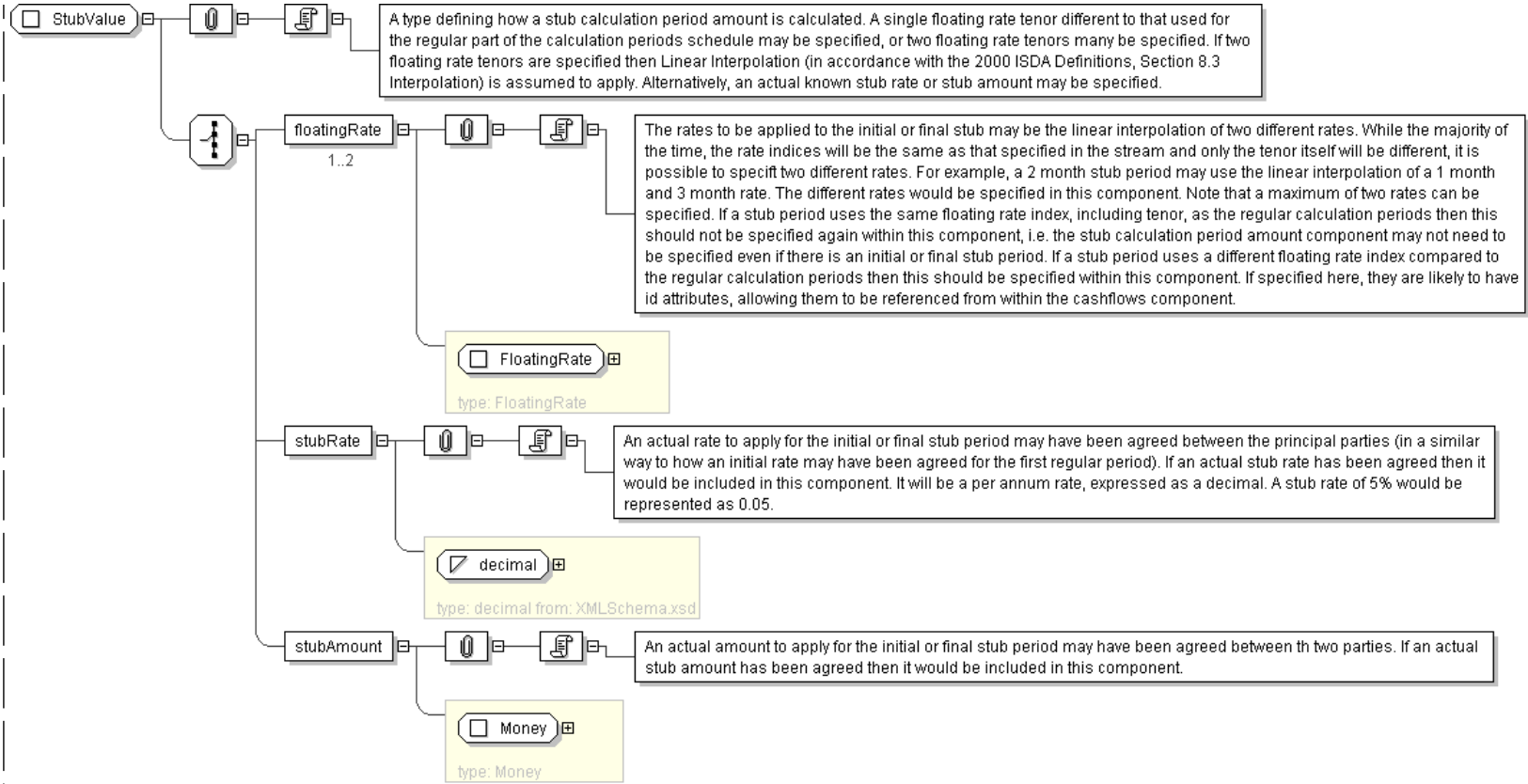
```
<...>
Start Choice [1]
  <floatingRate> FloatingRate </floatingRate> [1..2]
  'The rates to be applied to the initial or final stub may be the linear interpolation of
  two different rates. While the majority of the time, the rate indices will be the same as
  that specified in the stream and only the tenor itself will be different, it is possible
  to specifit two different rates. For example, a 2 month stub period may use the
  linear interpolation of a 1 month and 3 month rate. The different rates would be specified
  in this component. Note that a maximum of two rates can be specified. If a stub period uses
  the same floating rate index, including tenor, as the regular calculation periods then
  this should not be specified again within this component, i.e. the stub calculation
  period amount component may not need to be specified even if there is an initial or final
  stub period. If a stub period uses a different floating rate index compared to the
  regular calculation periods then this should be specified within this component. If
  specified here, they are likely to have id attributes, allowing them to be referenced
  from within the cashflows component.'

  <stubRate> xsd:decimal </stubRate> [1]
  'An actual rate to apply for the initial or final stub period may have been agreed between
  the principal parties (in a similar way to how an initial rate may have been agreed for
  the first regular period). If an actual stub rate has been agreed then it would be included
  in this component. It will be a per annum rate, expressed as a decimal. A stub rate of 5%
  would be represented as 0.05.'

  <stubAmount> Money </stubAmount> [1]
  'An actual amount to apply for the initial or final stub period may have been agreed between
  th two parties. If an actual stub amount has been agreed then it would be included in
  this component.'

End Choice
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="StubValue">
  <xsd:choice>
    <xsd:element name="floatingRate" type=" FloatingRate " maxOccurs="2"/>
    <xsd:element name="stubRate" type=" xsd:decimal "/>
    <xsd:element name="stubAmount" type=" Money "/>
  </xsd:choice>
</xsd:complexType>
```

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Complex Type: **TimezoneLocation**

Super-types:	<a href="#">xsd:normalizedString</a> < <a href="#">Scheme</a> (by restriction) < <b>TimezoneLocation</b> (by extension)
Sub-types:	None

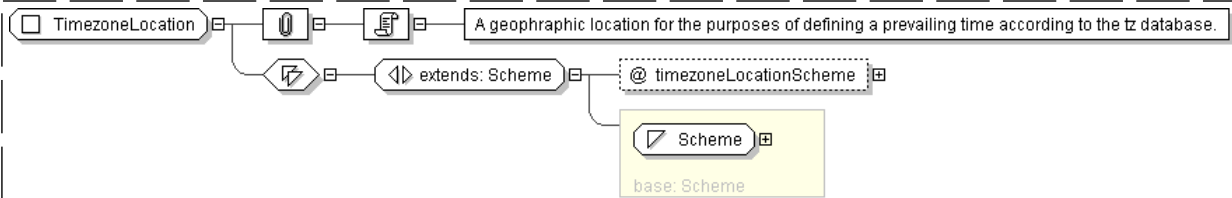
Name	TimezoneLocation
Used by (from the same schema document)	Complex Type <a href="#">PrevailingTime</a>
Abstract	no
Documentation	A geophraphic location for the purposes of defining a prevailling time according to the tz database.

XML Instance Representation

```
<...
  timezoneLocationScheme=" xsd:anyURI [0..1]">
    Scheme
```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="TimezoneLocation">
  <xsd:simpleContent>
    <xsd:extension base=" Scheme "
      <xsd:attribute name="timezoneLocationScheme" type=" xsd:anyURI " default="http://www.fpml.
        org/coding-scheme/external/tzdatabase" />
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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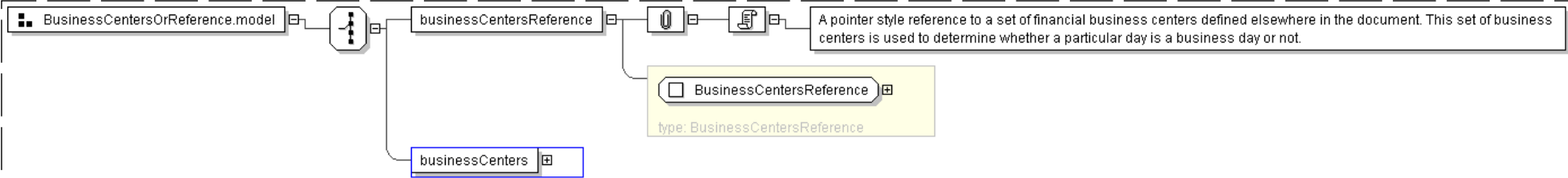
Model Group: BusinessCentersOrReference.model

Name	BusinessCentersOrReference.model
Used by (from the same schema document)	Complex Type <a href="#">BusinessDateRange</a> , Complex Type <a href="#">BusinessDayAdjustments</a> , Complex Type <a href="#">RelativeDateOffset</a> , Complex Type <a href="#">RelativeDateSequence</a>

XML Instance Representation

```
Start Choice [1]
<businessCentersReference> BusinessCentersReference </businessCentersReference> [1]
'A pointer style reference to a set of financial business centers defined elsewhere in
the document. This set of business centers is used to determine whether a particular day is
a business day or not.'
<businessCenters> BusinessCenters </businessCenters> [1]
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="BusinessCentersOrReference.model">
  <xsd:choice>
    <xsd:element name="businessCentersReference" type=" BusinessCentersReference " />
    <xsd:element name="businessCenters" type=" BusinessCenters " />
  </xsd:choice>
</xsd:group>
```

Model Group: **BuyerSeller.model**

Name	BuyerSeller.model
------	-------------------

XML Instance Representation

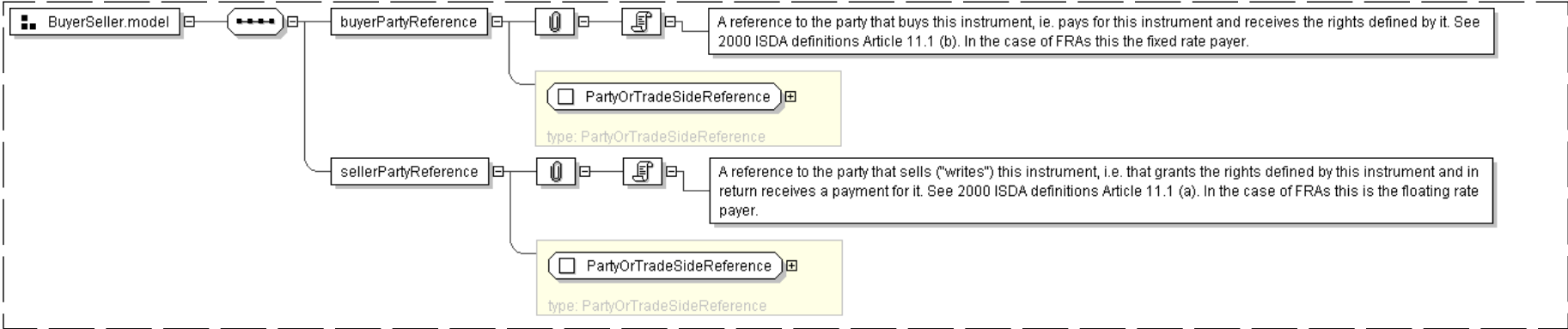
```
<buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
```

'A reference to the party that buys this instrument, ie. pays for this instrument and receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case of FRAs this the fixed rate payer.'

```
<sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
```

'A reference to the party that sells ("writes") this instrument, i.e. that grants the rights defined by this instrument and in return receives a payment for it. See 2000 ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

Diagram



Schema Component Representation

```
<xsd:group name="BuyerSeller.model">
  <xsd:sequence>
    <xsd:element name="buyerPartyReference" type=" PartyOrTradeSideReference " />
    <xsd:element name="sellerPartyReference" type=" PartyOrTradeSideReference " />
  </xsd:sequence>
</xsd:group>
```

Model Group: **FloatingRateIndex.model**

Name	FloatingRateIndex.model
Used by (from the same schema document)	Complex Type <a href="#">FloatingRate</a>

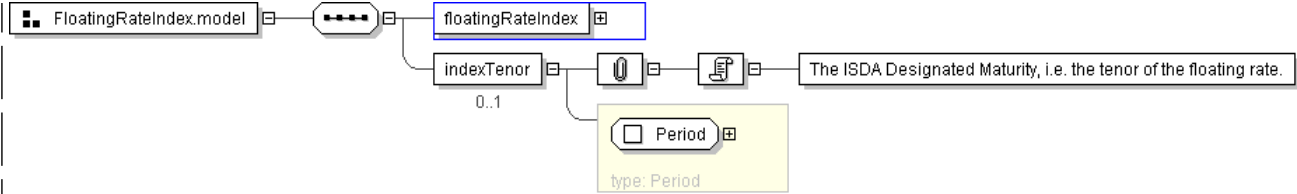
XML Instance Representation

```
<floatingRateIndex> FloatingRateIndex </floatingRateIndex> [1]
```

```
<indexTenor> Period </indexTenor> [0..1]
```

'The ISDA Designated Maturity, i.e. the tenor of the floating rate.'

Diagram



Schema Component Representation

```
<xsd:group name="FloatingRateIndex.model">
  <xsd:sequence>
    <xsd:element name="floatingRateIndex" type=" FloatingRateIndex " />
    <xsd:element name="indexTenor" type=" Period " minOccurs="0" />
  </xsd:sequence>
</xsd:group>
```

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Model Group: **PartialExercise.model**

Name	PartialExercise.model
Used by (from the same schema document)	Complex Type <a href="#">MultipleExercise</a> , Complex Type <a href="#">PartialExercise</a>

XML Instance Representation

```
<notionalReference> NotionalReference </notionalReference> [0..*]

'A pointer style reference to the associated notional schedule defined elsewhere in
the document. This element has been made optional as part of its integration in
the OptionBaseExtended, because not required for the options on securities.'
```

```
<integralMultipleAmount> xsd:decimal </integralMultipleAmount> [0..1]

'A notional amount which restricts the amount of notional that can be exercised when
partial exercise or multiple exercise is applicable. The integral multiple amount defines
a lower limit of notional that can be exercised and also defines a unit multiple of
notional that can be exercised, i.e. only integer multiples of this amount can be exercised.'
```

```
Start Choice [1]
  <minimumNotionalAmount> xsd:decimal </minimumNotionalAmount> [1]

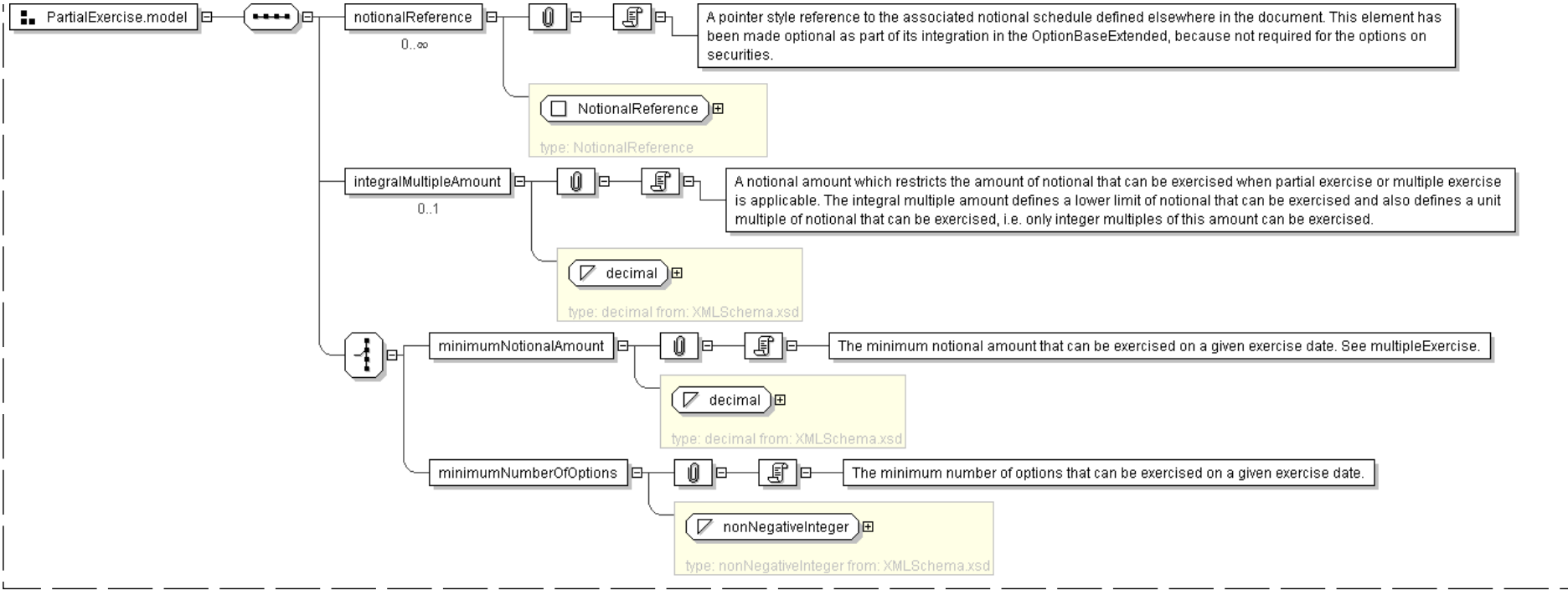
  'The minimum notional amount that can be exercised on a given exercise date.
  See multipleExercise.'
```

```
  <minimumNumberOfOptions> xsd:nonNegativeInteger </minimumNumberOfOptions> [1]

  'The minimum number of options that can be exercised on a given exercise date.'
```

```
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="PartialExercise.model">
  <xsd:sequence>
    <xsd:element name="notionalReference" type=" NotionalReference "
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="integralMultipleAmount" type=" xsd:decimal " minOccurs="0"/>
    <xsd:choice>
      <xsd:element name="minimumNotionalAmount" type=" xsd:decimal "/>
      <xsd:element name="minimumNumberOfOptions" type=" xsd:nonNegativeInteger "/>
    </xsd:choice>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **PayerReceiver.model**

Name	PayerReceiver.model
Used by (from the same schema document)	Complex Type <a href="#">ExerciseFee</a> , Complex Type <a href="#">ExerciseFeeSchedule</a> , Complex Type <a href="#">Payment</a> , Complex Type <a href="#">PaymentBaseExtended</a> , Complex Type <a href="#">SimplePayment</a>

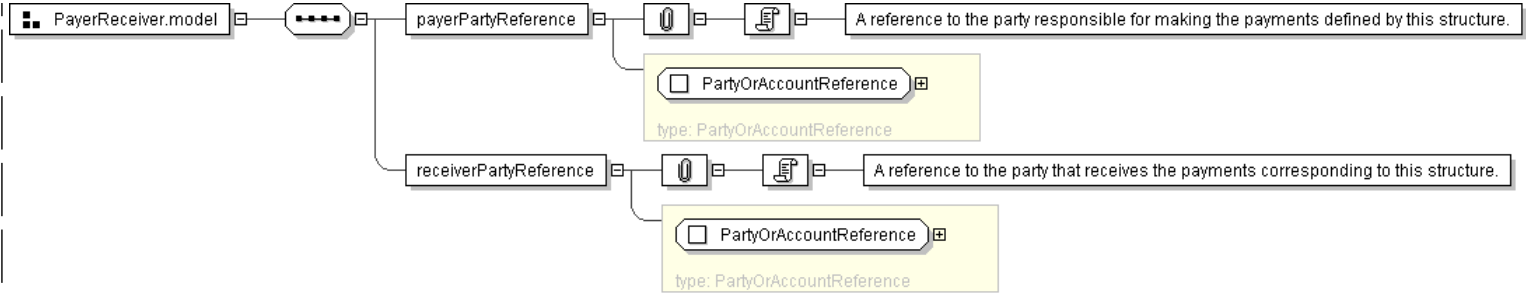
XML Instance Representation

```
<payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
'A reference to the party responsible for making the payments defined by this structure.'
```

```
<receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
'A reference to the party that receives the payments corresponding to this structure.'
```

Diagram





Schema Component Representation

```
<xsd:group name="PayerReceiver.model">
  <xsd:sequence>
    <xsd:element name="payerPartyReference" type=" PartyOrAccountReference " />
    <xsd:element name="receiverPartyReference" type=" PartyOrAccountReference " />
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **PaymentDiscounting.model**

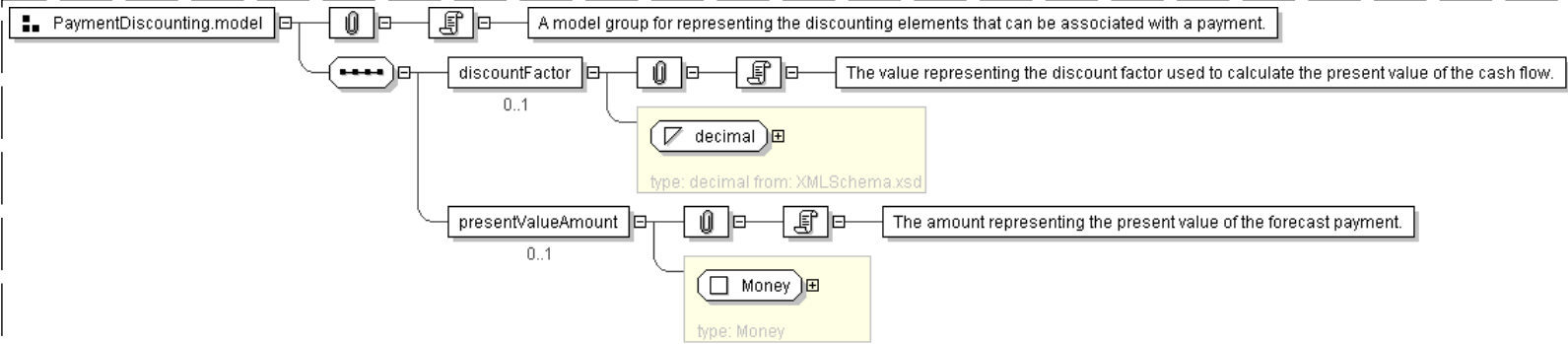
Name	PaymentDiscounting.model
Documentation	A model group for representing the discounting elements that can be associated with a payment.

XML Instance Representation

```
<discountFactor> xsd:decimal </discountFactor> [0..1]
'The value representing the discount factor used to calculate the present value of the
cash flow.'
```

```
<presentValueAmount> Money </presentValueAmount> [0..1]
'The amount representing the present value of the forecast payment.'
```

Diagram



Schema Component Representation

```
<xsd:group name="PaymentDiscounting.model">
  <xsd:sequence>
    <xsd:element name="discountFactor" type=" xsd:decimal " minOccurs="0"/>
    <xsd:element name="presentValueAmount" type=" Money " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

Model Group: **Period.model**

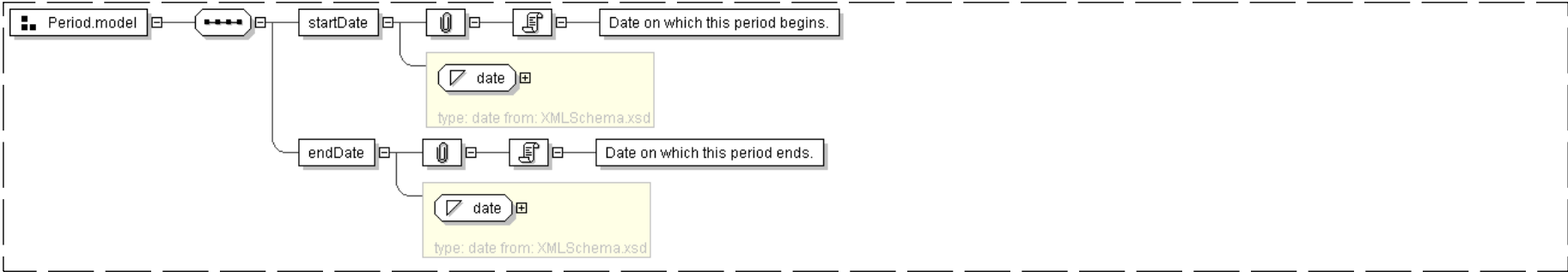
Name	Period.model
------	--------------

XML Instance Representation

```
<startDate> xsd:date </startDate> [1]
'Date on which this period begins.'

<endDate> xsd:date </endDate> [1]
'Date on which this period ends.'
```

Diagram



Schema Component Representation

```
<xsd:groupl name="Period.model">
  <xsd:sequence>
    <xsd:element name="startDate" type=" xsd:date "/>
    <xsd:element name="endDate" type=" xsd:date "/>
  </xsd:sequence>
</xsd:groupl>
```

Model Group: **Premium.model**

Name	Premium.model
Documentation	A model group for representing the option premium when expressed in a way other than an amount.

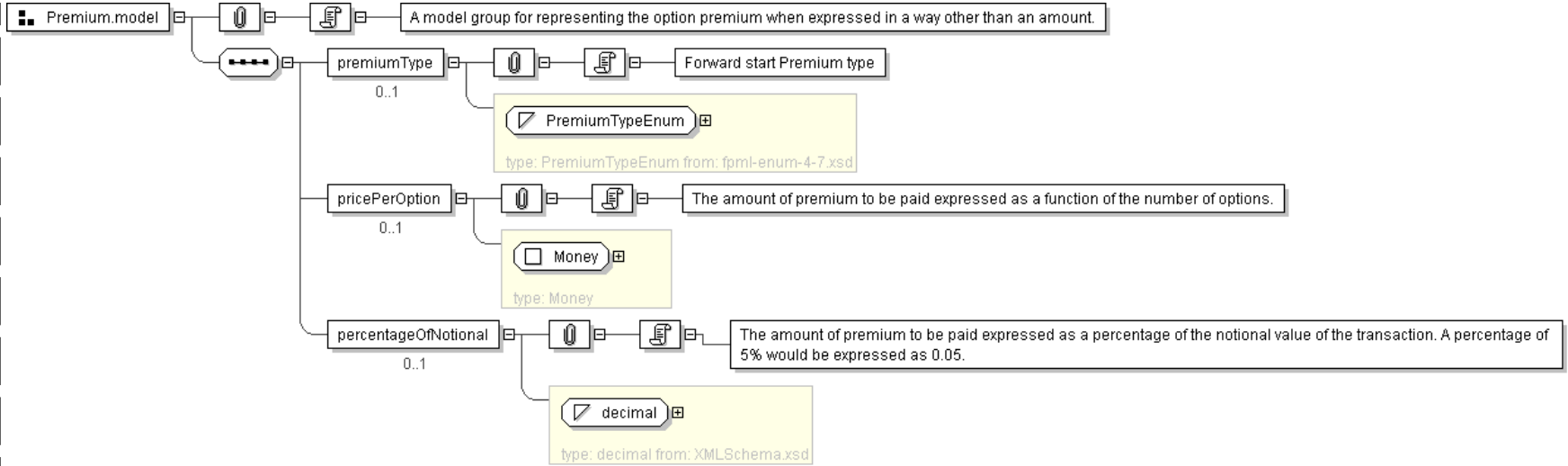
XML Instance Representation

```
<premiumType> PremiumTypeEnum </premiumType> [0..1]
'Forward start Premium type'

<pricePerOption> Money </pricePerOption> [0..1]
'The amount of premium to be paid expressed as a function of the number of options.'

<percentageOfNotional> xsd:decimal </percentageOfNotional> [0..1]
'The amount of premium to be paid expressed as a percentage of the notional value of
the transaction. A percentage of 5% would be expressed as 0.05.'
```

Diagram



Schema Component Representation

```
<xsd:group name="Premium.model">
  <xsd:sequence>
    <xsd:element name="premiumType" type="PremiumTypeEnum" minOccurs="0"/>
    <xsd:element name="pricePerOption" type="Money" minOccurs="0"/>
    <xsd:element name="percentageOfNotional" type="xsd:decimal" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

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Model Group: **Product.model**

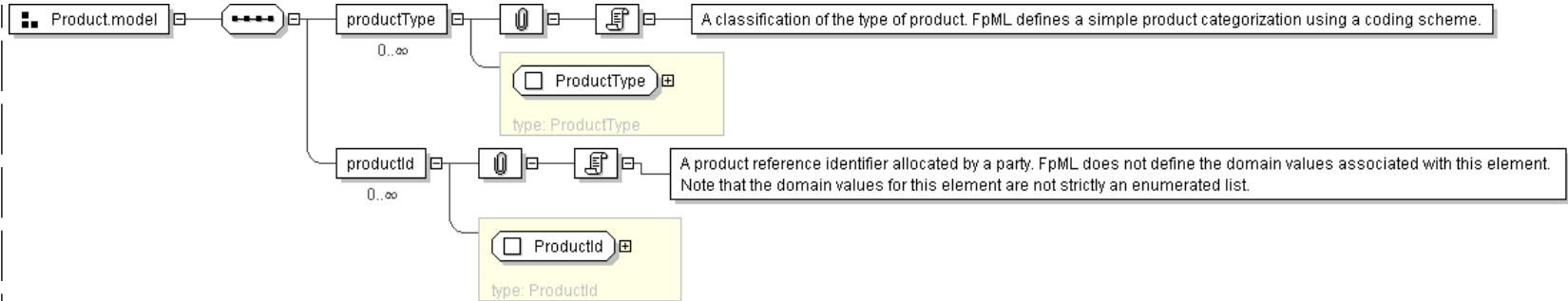
Name	Product.model
Used by (from the same schema document)	Complex Type <a href="#">Product</a>

XML Instance Representation

```
<productType> ProductType </productType> [0..*]
'A classification of the type of product. FpML defines a simple product categorization using a coding scheme.'
```

```
<productId> ProductId </productId> [0..*]
'A product reference identifier allocated by a party. FpML does not define the domain values associated with this element. Note that the domain values for this element are not strictly an enumerated list.'
```

Diagram



Schema Component Representation

```
<xsd:group name="Product.model">
  <xsd:sequence>
    <xsd:element name="productType" type="ProductType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="productId" type="ProductId" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: RoutingExplicitDetails.model

Name	RoutingExplicitDetails.model
Used by (from the same schema document)	Complex Type <a href="#">RoutingExplicitDetails</a> , Complex Type <a href="#">RoutingIdsAndExplicitDetails</a>

XML Instance Representation

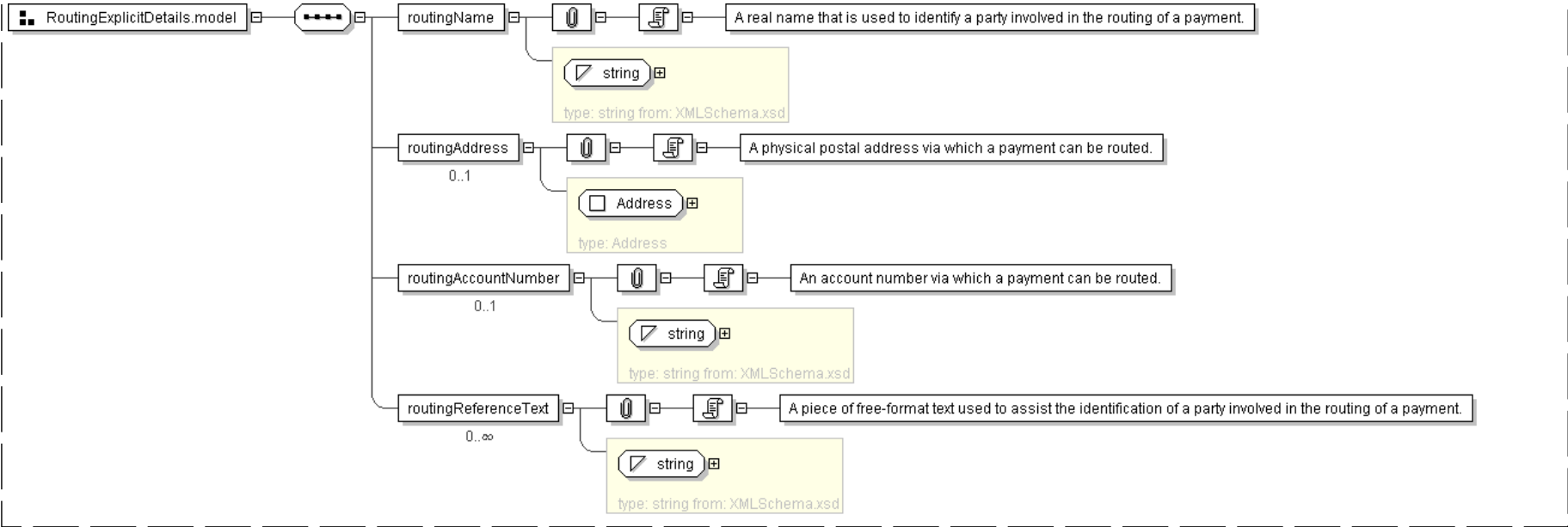
```
<routingName> xsd:string </routingName> [1]
'A real name that is used to identify a party involved in the routing of a payment.'
```

```
<routingAddress> Address </routingAddress> [0..1]
'A physical postal address via which a payment can be routed.'
```

```
<routingAccountNumber> xsd:string </routingAccountNumber> [0..1]
'An account number via which a payment can be routed.'
```

```
<routingReferenceText> xsd:string </routingReferenceText> [0..*]
'A piece of free-format text used to assist the identification of a party involved in the routing of a payment.'
```

Diagram



Schema Component Representation

```
<xsd:group name="RoutingExplicitDetails.model">
  <xsd:sequence>
    <xsd:element name="routingName" type="xsd:string" />
    <xsd:element name="routingAddress" type="Address" minOccurs="0"/>
    <xsd:element name="routingAccountNumber" type="xsd:string" minOccurs="0"/>
    <xsd:element name="routingReferenceText" type="xsd:string" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Model Group: **RoutingIdentification.model**

Name	RoutingIdentification.model
Used by (from the same schema document)	Complex Type <a href="#">Beneficiary</a> , Complex Type <a href="#">CorrespondentInformation</a> , Complex Type <a href="#">IntermediaryInformation</a> , Complex Type <a href="#">Routing</a>

XML Instance Representation

Start Choice [1]

<routingIds> [RoutingIds](#) </routingIds> [1]

'A set of unique identifiers for a party, eachone identifying the party within a payment system. The assumption is that each party will not have more than one identifier within the same payment system.'

<routingExplicitDetails> [RoutingExplicitDetails](#) </routingExplicitDetails> [1]

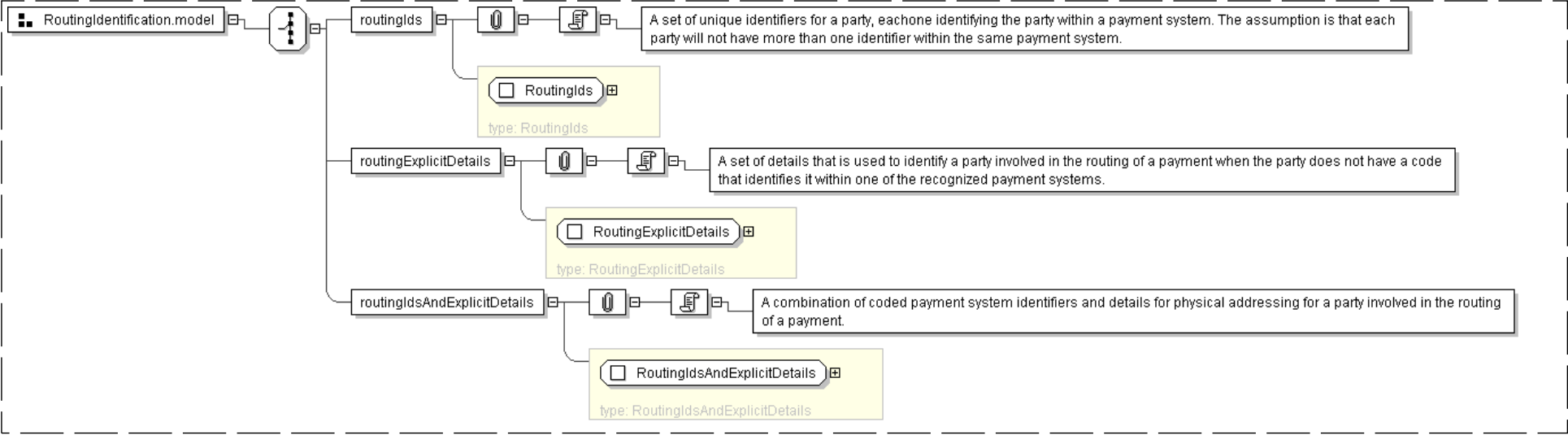
'A set of details that is used to identify a party involved in the routing of a payment when the party does not have a code that identifies it within one of the recognized payment systems.'

<routingIdsAndExplicitDetails> [RoutingIdsAndExplicitDetails](#) </routingIdsAndExplicitDetails> [1]

'A combination of coded payment system identifiers and details for physical addressing for a party involved in the routing of a payment.'

End Choice

Diagram



Schema Component Representation

```
<xsd:group name="RoutingIdentification.model">
  <xsd:choice>
    <xsd:element name="routingIds" type=" RoutingIds " />
    <xsd:element name="routingExplicitDetails" type=" RoutingExplicitDetails " />
    <xsd:element name="routingIdsAndExplicitDetails" type=" RoutingIdsAndExplicitDetails " />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: SettlementAmountOrCurrency.model

Name	SettlementAmountOrCurrency.model
------	----------------------------------

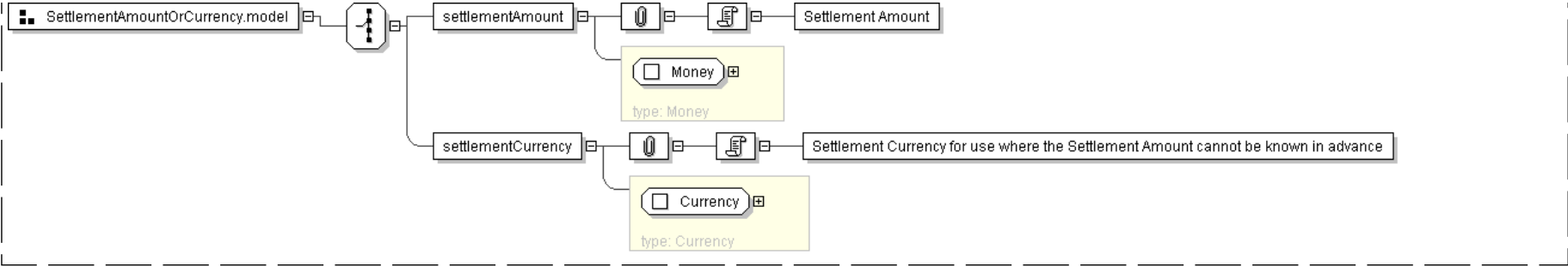
XML Instance Representation

```
Start Choice [1]
<settlementAmount> Money </settlementAmount> [1]
'Settlement Amount'

<settlementCurrency> Currency </settlementCurrency> [1]
'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="SettlementAmountOrCurrency.model">
  <xsd:choice>
    <xsd:element name="settlementAmount" type=" Money " />
    <xsd:element name="settlementCurrency" type=" Currency " />
  </xsd:choice>
</xsd:group>
```

[top](#)

Model Group: **VersionHistory.model**

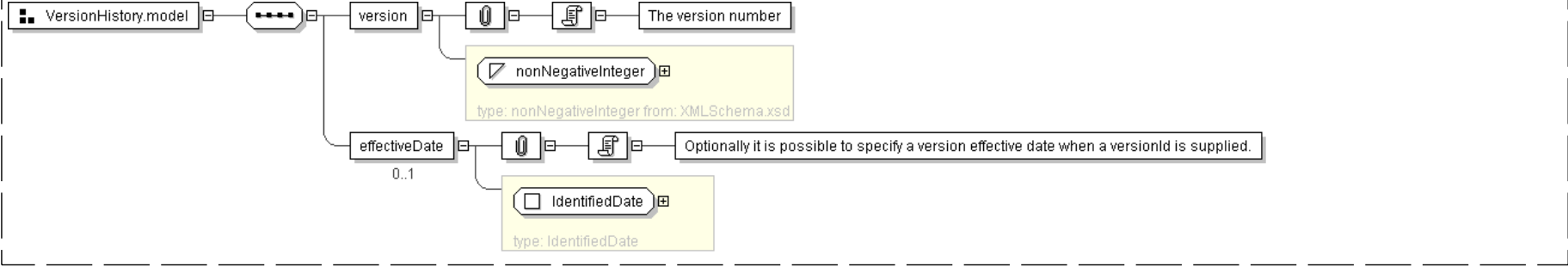
Name	VersionHistory.model
------	----------------------

XML Instance Representation

```
<version> xsd:nonNegativeInteger </version> [1]
'The version number'

<effectiveDate> IdentifiedDate </effectiveDate> [0..1]
'Optionally it is possible to specify a version effective date when a versionId is supplied.'
```

Diagram



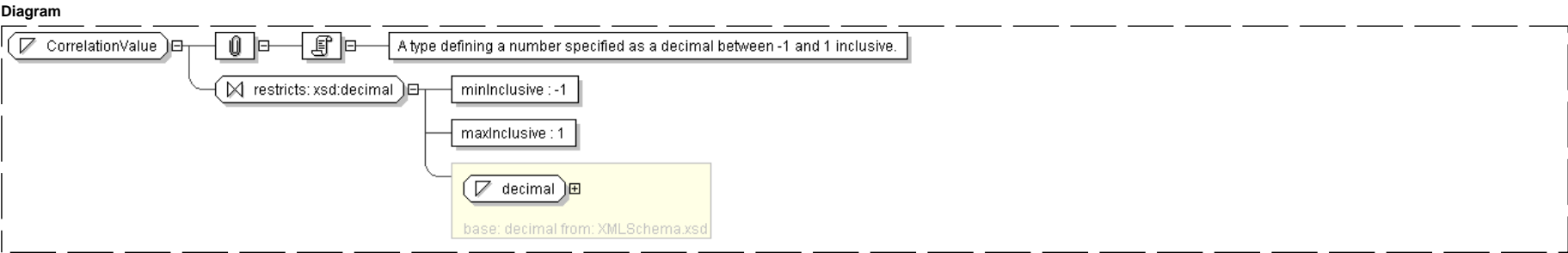
Schema Component Representation

```
<xsd:group name="VersionHistory.model">
  <xsd:sequence>
    <xsd:element name="version" type=" xsd:nonNegativeInteger " />
    <xsd:element name="effectiveDate" type=" IdentifiedDate " minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
```

[top](#)

Simple Type: **CorrelationValue**

Super-types:	<a href="#">xsd:decimal</a> < <b>CorrelationValue</b> (by restriction)
Sub-types:	None
Name	CorrelationValue
Content	<ul style="list-style-type: none"><li>Base XSD Type: decimal</li><li>-1 &lt;= <i>value</i> &lt;= 1</li></ul>
Documentation	A type defining a number specified as a decimal between -1 and 1 inclusive.



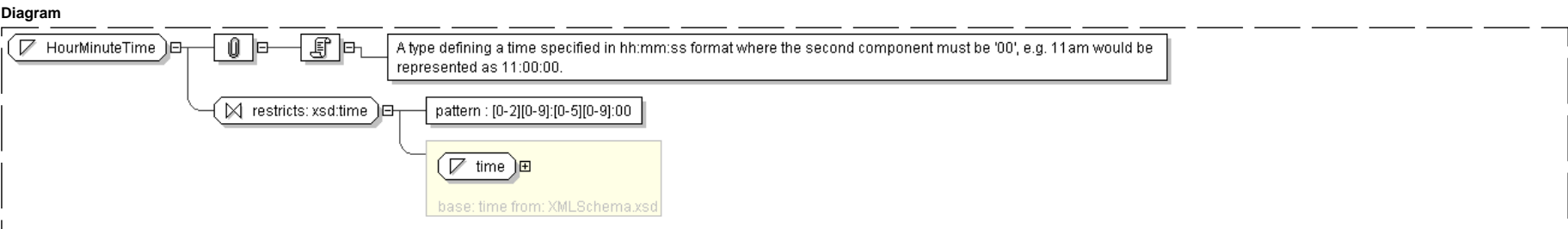
Schema Component Representation

```
<xsd:simpleType name="CorrelationValue">
  <xsd:restriction base="xsd:decimal" >
    <xsd:minInclusive value="-1"/>
    <xsd:maxInclusive value="1"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **HourMinuteTime**

Super-types:	<a href="#">xsd:time</a> < <b>HourMinuteTime</b> (by restriction)
Sub-types:	None
Name	HourMinuteTime
Used by (from the same schema document)	Complex Type <a href="#">BusinessCenterTime</a> , Complex Type <a href="#">PrevailingTime</a>
Content	<ul style="list-style-type: none"><li>Base XSD Type: time</li><li><i>pattern</i> = [0-2][0-9]:[0-5][0-9]:00</li></ul>
Documentation	A type defining a time specified in hh:mm:ss format where the second component must be '00', e.g. 11am would be represented as 11:00:00.



Schema Component Representation

```
<xsd:simpleType name="HourMinuteTime">
```



```
<xsd:restriction base=" xsd:time ">
  <xsd:pattern value="[0-2][0-9]:[0-5][0-9]:00"/>
</xsd:restriction>
</xsd:simpleType>
```

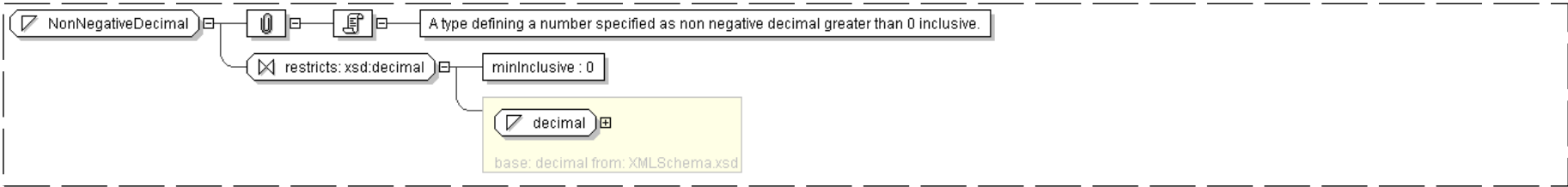
[top](#)

Simple Type: **NonNegativeDecimal**

Super-types:	<a href="#">xsd:decimal</a> < <b>NonNegativeDecimal</b> (by restriction)
Sub-types:	None

Name	NonNegativeDecimal
Used by (from the same schema document)	Complex Type <a href="#">NonNegativeMoney</a> , Complex Type <a href="#">NonNegativeSchedule</a> , Complex Type <a href="#">NonNegativeStep</a>
Content	<ul style="list-style-type: none"><li>Base XSD Type: decimal</li><li><i>value</i> &gt;= 0</li></ul>
Documentation	A type defining a number specified as non negative decimal greater than 0 inclusive.

Diagram



Schema Component Representation

```
<xsd:simpleType name="NonNegativeDecimal">
  <xsd:restriction base=" xsd:decimal ">
    <xsd:minInclusive value="0"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

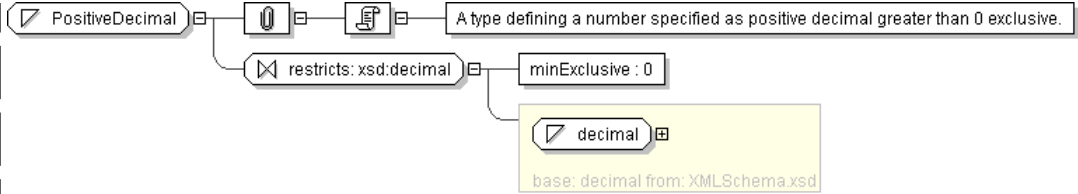
Simple Type: **PositiveDecimal**

Super-types:	<a href="#">xsd:decimal</a> < <b>PositiveDecimal</b> (by restriction)
Sub-types:	None

Name	PositiveDecimal
Used by (from the same schema document)	Complex Type <a href="#">PositiveMoney</a> , Complex Type <a href="#">PositiveSchedule</a> , Complex Type <a href="#">PositiveStep</a>
Content	<ul style="list-style-type: none"><li>Base XSD Type: decimal</li><li><i>value</i> &gt; 0</li></ul>
Documentation	A type defining a number specified as positive decimal greater than 0 exclusive.

Diagram





Schema Component Representation

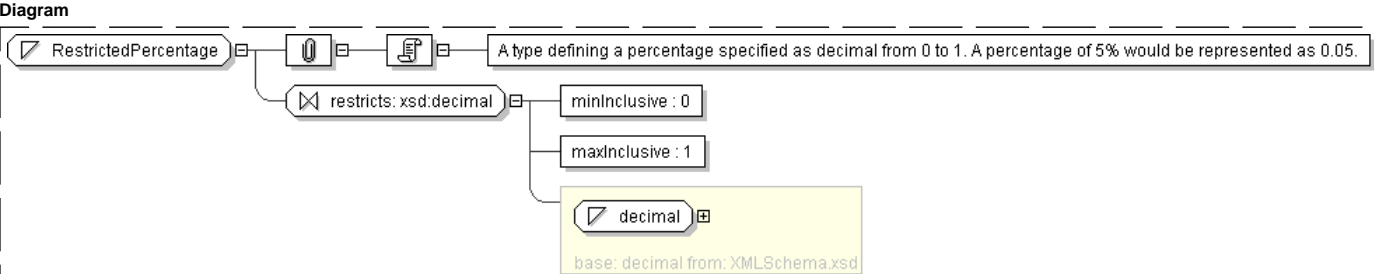
```
<xsd:simpleType name="PositiveDecimal">
  <xsd:restriction base="xsd:decimal">
    <xsd:minExclusive value="0"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **RestrictedPercentage**

Super-types:	<a href="#">xsd:decimal</a> < <b>RestrictedPercentage</b> (by restriction)
Sub-types:	None

Name	RestrictedPercentage
Used by (from the same schema document)	Complex Type <a href="#">AverageDailyTradingVolumeLimit</a>
Content	<ul style="list-style-type: none"><li>Base XSD Type: decimal</li><li>0 &lt;= <i>value</i> &lt;= 1</li></ul>
Documentation	A type defining a percentage specified as decimal from 0 to 1. A percentage of 5% would be represented as 0.05.



Schema Component Representation

```
<xsd:simpleType name="RestrictedPercentage">
  <xsd:restriction base="xsd:decimal">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="1"/>
  </xsd:restriction>
</xsd:simpleType>
```

[top](#)

Simple Type: **Scheme**

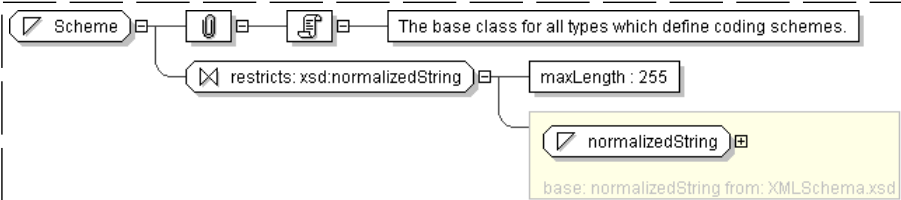
Super-types:	<a href="#">xsd:normalizedString</a> < <b>Scheme</b> (by restriction)
--------------	---

Sub-types:

- [AccountId](#) (by extension)
- [BrokerConfirmationType](#) (by extension)
- [BusinessCenter](#) (by extension)
- [CashflowType](#) (by extension)
- [ClearanceSystem](#) (by extension)
- [ContractualDefinitions](#) (by extension)
- [ContractualSupplement](#) (by extension)
- [Country](#) (by extension)
- [CreditSeniority](#) (by extension)
- [CreditSupportAgreementType](#) (by extension)
- [Currency](#) (by extension)
- [DayCountFraction](#) (by extension)
- [DeterminationMethod](#) (by extension)
- [EntityId](#) (by extension)
- [EntityName](#) (by extension)
- [ExchangeId](#) (by extension)
- [FloatingRateIndex](#) (by extension)
- [GoverningLaw](#) (by extension)
- [InformationProvider](#) (by extension)
- [InstrumentId](#) (by extension)
- [InterpolationMethod](#) (by extension)
- [MainPublication](#) (by extension)
- [MasterAgreementType](#) (by extension)
- [MasterAgreementVersion](#) (by extension)
- [MasterConfirmationAnnexType](#) (by extension)
- [MasterConfirmationType](#) (by extension)
- [MatrixType](#) (by extension)
- [MatrixTerm](#) (by extension)
- [MimeType](#) (by extension)
- [MultipleExchangeAnnex](#) (by extension)
- [PartyId](#) (by extension)
- [PaymentType](#) (by extension)
- [ProductId](#) (by extension)
- [ProductType](#) (by extension)
- [RateSourcePage](#) (by extension)
- [ReferenceAmount](#) (by extension)
- [ReferenceBankId](#) (by extension)
- [RoutingId](#) (by extension)
- [SettlementMethod](#) (by extension)
- [SettlementPriceDefaultElection](#) (by extension)
- [SettlementPriceSource](#) (by extension)
- [SpreadScheduleType](#) (by extension)
- [TimezoneLocation](#) (by extension)

Name	Scheme
Content	<div><ul style="list-style-type: none"><li>• Base XSD Type: <code>normalizedString</code></li><li>• <i>length</i> &lt;= 255</li></ul></div>
Documentation	The base class for all types which define coding schemes.

Diagram



Schema Component Representation

```
<xsd:simpleType name="Scheme">
```

```
<xsd:restriction base="xsd:normalizedString" >
  <xsd:maxLength value="255" />
</xsd:restriction>
</xsd:simpleType>
```

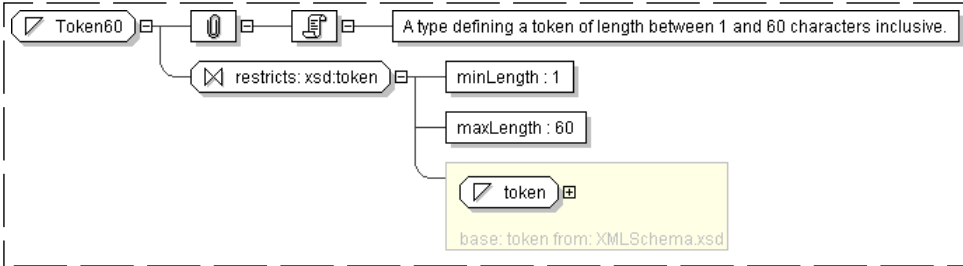
[top](#)

Simple Type: **Token60**

Super-types:	<a href="#">xsd:token</a> < <b>Token60</b> (by restriction)
Sub-types:	None

Name	Token60
Content	<ul style="list-style-type: none"><li>Base XSD Type: token</li><li><i>length</i> &gt;= 1</li></ul>
Documentation	A type defining a token of length between 1 and 60 characters inclusive.

Diagram



Schema Component Representation

```
<xsd:simpleType name="Token60">
  <xsd:restriction base="xsd:token" >
    <xsd:minLength value="1" />
    <xsd:maxLength value="60" />
  </xsd:restriction>
</xsd:simpleType>
```

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Legend

Complex Type:	<b>AusAddress</b>
Schema Component Type	Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">OLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
```

```
' <unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base=" Address " >
      <sequence>
        <element name="state" type=" AusStates " />
        <element name="postcode">
          <simpleType>
            <restriction base=" string ">
              <pattern value="[1-9][0-9]{3}" />
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type=" string " fixed="Australia" />
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: <http://www.w3.org/TR/>

[xmlschema-1/#cidentity-constraint\\_Definitions](#).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  ...
</xsd:schema>
```

## Global Definitions

### Complex Type: **CancelTradeMatch**

Super-types:	<a href="#">RequestMessage</a> < <b>CancelTradeMatch</b> (by extension)
Sub-types:	None

Name	CancelTradeMatch
Abstract	no
Documentation	A type defining the content model for a message requesting that a previously requested TradeMatch process be cancelled.

#### XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'

  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'

  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">
  <header> RequestMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <partyTradeIdentifier> PartyTradeIdentifier </partyTradeIdentifier> [1]
  'The trade reference identifier(s) allocated to the trade by the parties involved.'

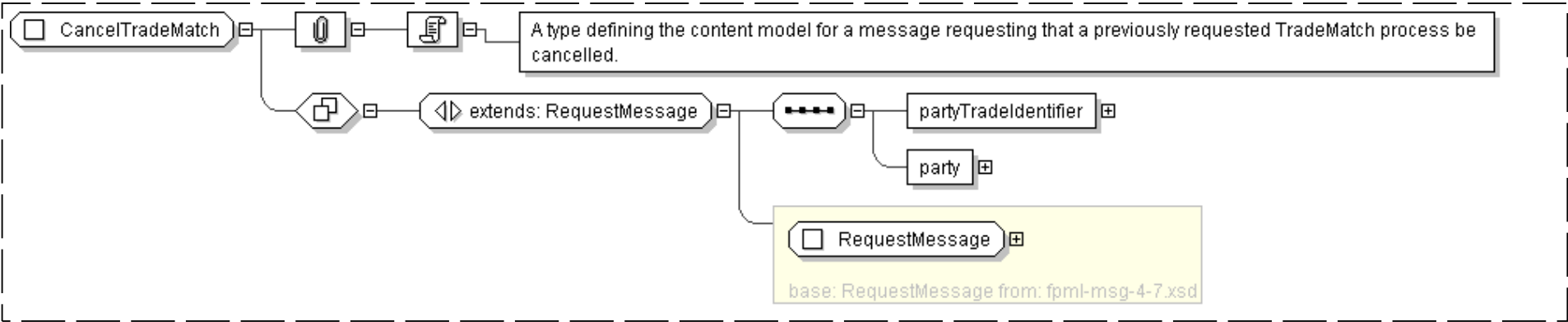
  <party> Party </party> [1]
  'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/
```



*transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'*

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="CancelTradeMatch">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage ">
      <xsd:sequence>
        <xsd:element name="partyTradeIdentifier" type=" PartyTradeIdentifier "/>
        <xsd:element name="party" type=" Party "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: **ModifyTradeMatch**

Super-types:	<a href="#">RequestMessage</a> < <b>ModifyTradeMatch</b> (by extension)
Sub-types:	None

Name	ModifyTradeMatch
Abstract	no
Documentation	A type defining the content of a message requesting that the details of a trade previously sent for matching be modified.

XML Instance Representation

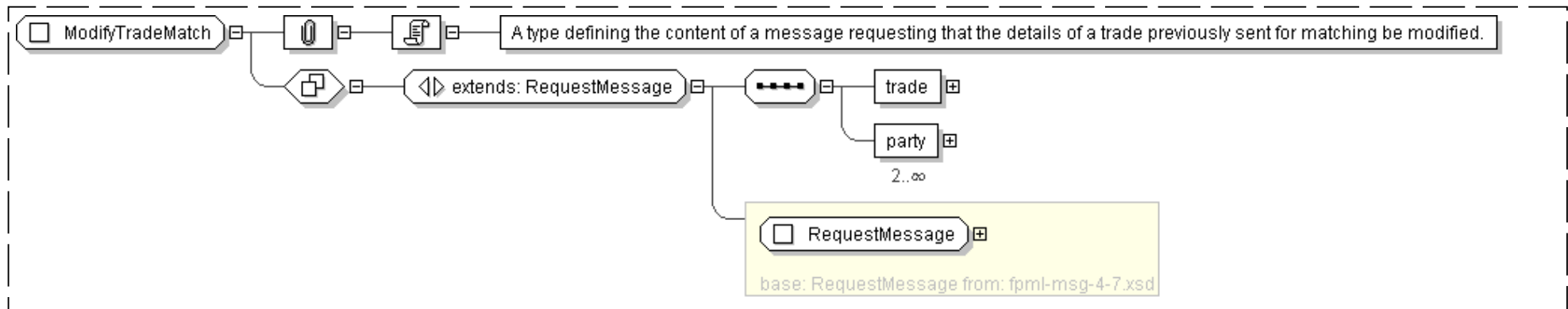
```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
```

```

| 7'}) [1]
|
| 'Indicate which version of the FpML Schema an FpML message adheres to.'
|
| "
| expectedBuild=" xsd:positiveInteger [0..1]
|
| 'This optional attribute can be supplied by a message creator in an FpML instance to
| specify which build number of the schema was used to define the message when it was generated.'
|
| "
| actualBuild="5 [0..1]
|
| 'The specific build number of this schema version. This attribute is not included in
| an instance document. Instead, it is supplied by the XML parser when the document is
| validated against the FpML schema and indicates the build number of the schema file. Every
| time FpML publishes a change to the schema, validation rules, or examples within a version
| (e.g., version 4.2) the actual build number is incremented. If no changes have been
| made between releases within a version (i.e. from Trial Recommendation to Recommendation)
| the actual build number stays the same.'
|
| ">
|
| <header> RequestMessageHeader </header> [1]
| <validation> Validation </validation> [0..*]
| <trade> Trade </trade> [1]
|
| 'The root element in an FpML trade document.'
|
| <party> Party </party> [2..*]
|
| 'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in
| a trade lifecycle. For example, the principal parties obligated to make payments from time
| to time during the term of the trade, but may include other parties involved in, or
| incidental to, the trade, such as parties acting in the role of novation transferor/
| transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places
| within a document.'
|
| </...>

```

## Diagram



Schema Component Representation

```
<xsd:complexType name="ModifyTradeMatch">
  <xsd:complexContent>
    <xsd:extension base=" RequestMessage " >
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: RequestTradeMatch

Super-types:	<a href="#">RequestMessage</a> < <b>RequestTradeMatch</b> (by extension)
Sub-types:	None

Name	RequestTradeMatch
Abstract	no
Documentation	A type defining the content model for a message requesting that the contained trade be put forward for matching.

XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
time FpML publishes a change to the schema, validation rules, or examples within a version
(e.g., version 4.2) the actual build number is incremented. If no changes have been
made between releases within a version (i.e. from Trial Recommendation to Recommendation)
the actual build number stays the same.'
">
  <header> RequestMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
<trade> Trade </trade> [1]
```

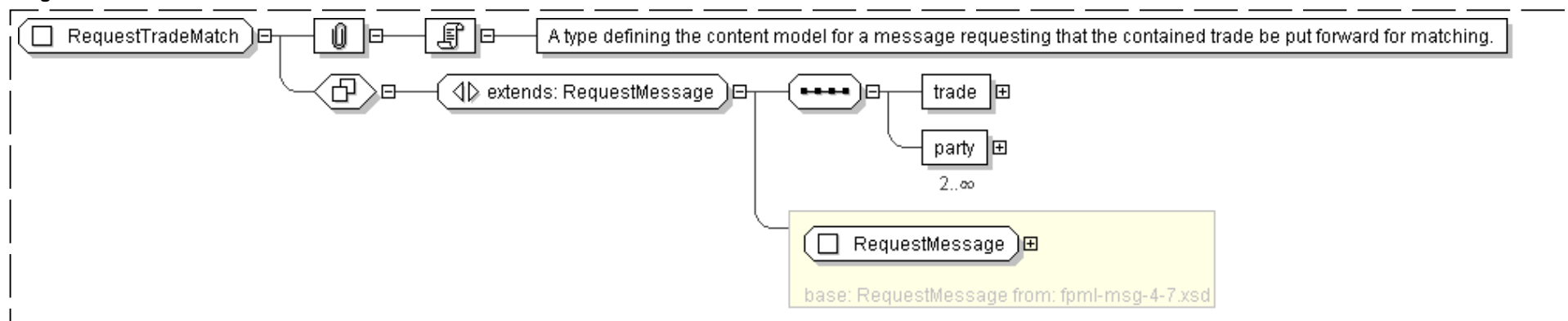
*'The root element in an FpML trade document.'*

```
<party> Party </party> [2..*]
```

*'A legal entity or a subdivision of a legal entity.', 'Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'*

```
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="RequestTradeMatch">
  <xsd:complexContent>
    <xsd:extension base="RequestMessage">
      <xsd:sequence>
        <xsd:element name="trade" type="Trade" />
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

## Complex Type: TradeAlreadyMatched

Super-types: [ResponseMessage](#) < **TradeAlreadyMatched** (by extension)

Sub-types:	None
------------	------

Name	TradeAlreadyMatched
Abstract	no
Documentation	A type defining the content model for a message sent by a confirmation provider when it believes that one party has repeated a request to confirm a trade.

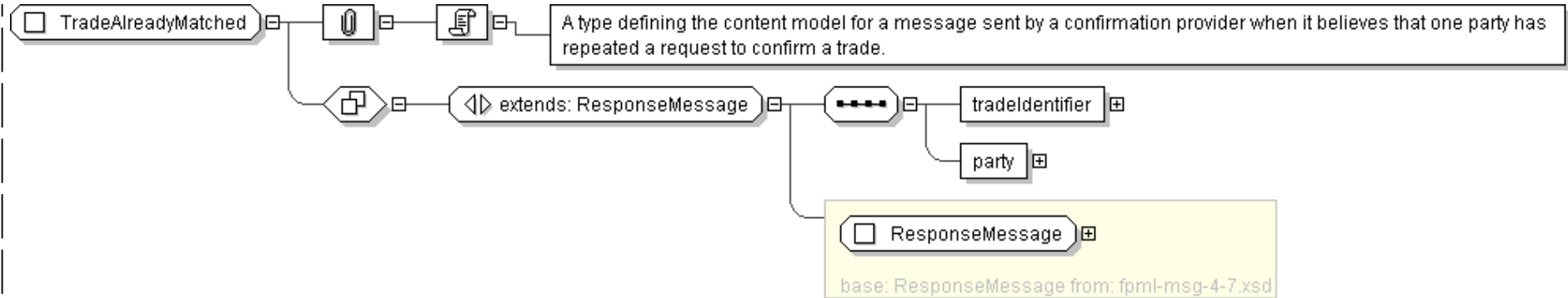
XML Instance Representation

```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
  ">
    <header> ResponseMessageHeader </header> [1]
    <validation> Validation </validation> [0..*]
    <tradeIdentifier> TradeIdentifier </tradeIdentifier> [1]
    'An instance of a unique trade identifier.'

    <party> Party </party> [1]
    'A legal entity or a subdivision of a legal entity.','Parties can perform multiple roles in a trade lifecycle. For example, the principal parties obligated to make payments from time to time during the term of the trade, but may include other parties involved in, or incidental to, the trade, such as parties acting in the role of novation transferor/ transferee, broker, calculation agent, etc. In FpML roles are defined in multiple places within a document.'

  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAlreadyMatched">
  <xsd:complexContent>
    <xsd:extension base=" ResponseMessage ">
      <xsd:sequence>
        <xsd:element name="tradeIdentifier" type=" TradeIdentifier "/>
        <xsd:element name="party" type=" Party "/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**      **AusAddress**  
Schema Component Type      Schema Component Name

Super-types:      [Address](#) < AusAddress (by extension)

Sub-types:           • [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
```

```
| <unitNo> string </unitNo> [0..1]
| <houseNo> string </houseNo> [1]
| <street> string </street> [1]
| Start Choice [1]
| <city> string </city> [1]
| <town> string </town> [1]
| End Choice
| <state> AusStates </state> [1]
| <postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
| </...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base=" Address ">
      <sequence>
        <element name="state" type=" AusStates "/>
        <element name="postcode">
          <simpleType>
            <restriction base=" string ">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type=" string " fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element

instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.



**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-msg-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
xml	http://www.w3.org/XML/1998/namespace
ecore	http://www.eclipse.org/emf/2002/Ecore
fpml-annotation	http://www.fpml.org/annotation
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
dsig	http://www.w3.org/2000/09/xmlsig#
xsd	http://www.w3.org/2001/XMLSchema

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
```

```
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-msg-4-7.xsd" />
  ...
</xsd:schema>
```

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## Global Definitions

### Complex Type: TradeAmended

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeAmended</b> (by extension)
Sub-types:	None

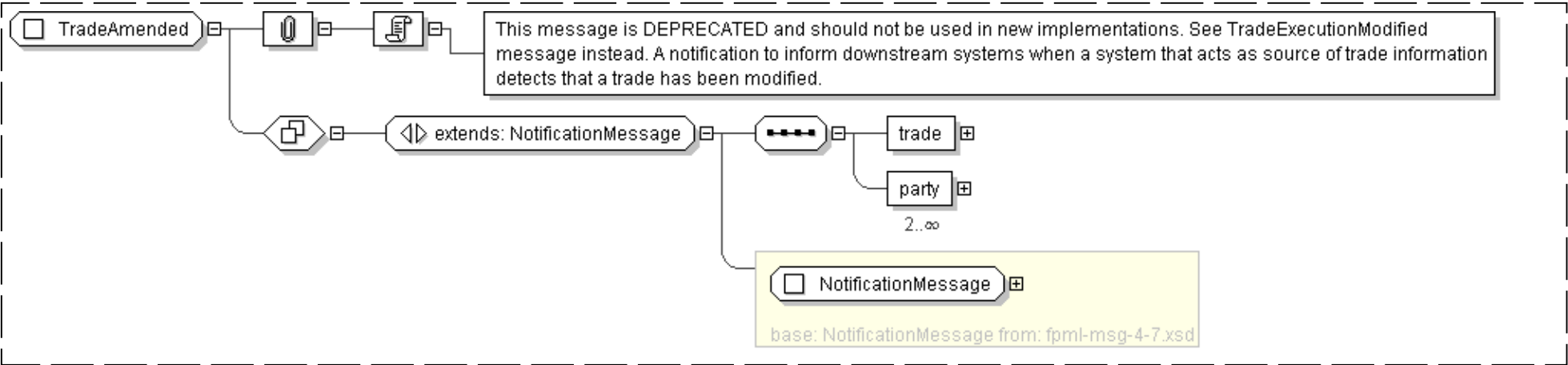
Name	TradeAmended
Abstract	no
Documentation	This message is DEPRECATED and should not be used in new implementations. See TradeExecutionModified message instead. A notification to inform downstream systems when a system that acts as source of trade information detects that a trade has been modified.

#### XML Instance Representation

<... version=" <a href="#">xsd:token</a> (value comes from list: {'4-0' '4-1' '4-2' '4-3' '4-4' '4-5' '4-6' '4-7'}) [1] <i>'Indicate which version of the FpML Schema an FpML message adheres to.'</i> " expectedBuild=" <a href="#">xsd:positiveInteger</a> [0..1] <i>'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'</i> " actualBuild=" <b>5</b> [0..1] <i>'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'</i> "> <header> <a href="#">NotificationMessageHeader</a> </header> [1] <validation> <a href="#">Validation</a> </validation> [0..*] <trade> <a href="#">Trade</a> </trade> [1] <party> <a href="#">Party</a> </party> [2..*]
--

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="TradeAmended" deprecated="true" deprecatedReason="Misuse of this message was causing interoperability problems. See TradeExecutionModified message instead.">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: TradeCancelled

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeCancelled</b> (by extension)
Sub-types:	None

Name	TradeCancelled
Abstract	no
Documentation	This message is DEPRECATED and should not be used in new implementations. See TradeExecutionCancelled message instead. A notification to inform downstream systems when a system that acts as source of trade information detects that a trade has been cancelled.

XML Instance Representation

<...>

```
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
```

*'Indicate which version of the FpML Schema an FpML message adheres to.'*

"

```
expectedBuild=" xsd:positiveInteger [0..1]
```

*'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'*

"

```
actualBuild="5 [0..1]
```

*'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'*

">

```
<header> NotificationMessageHeader </header> [1]
```

```
<validation> Validation </validation> [0..*]
```

```
Start Choice [1]
```

```
<tradeIdentifier> TradeIdentifier </tradeIdentifier> [1..*]
```

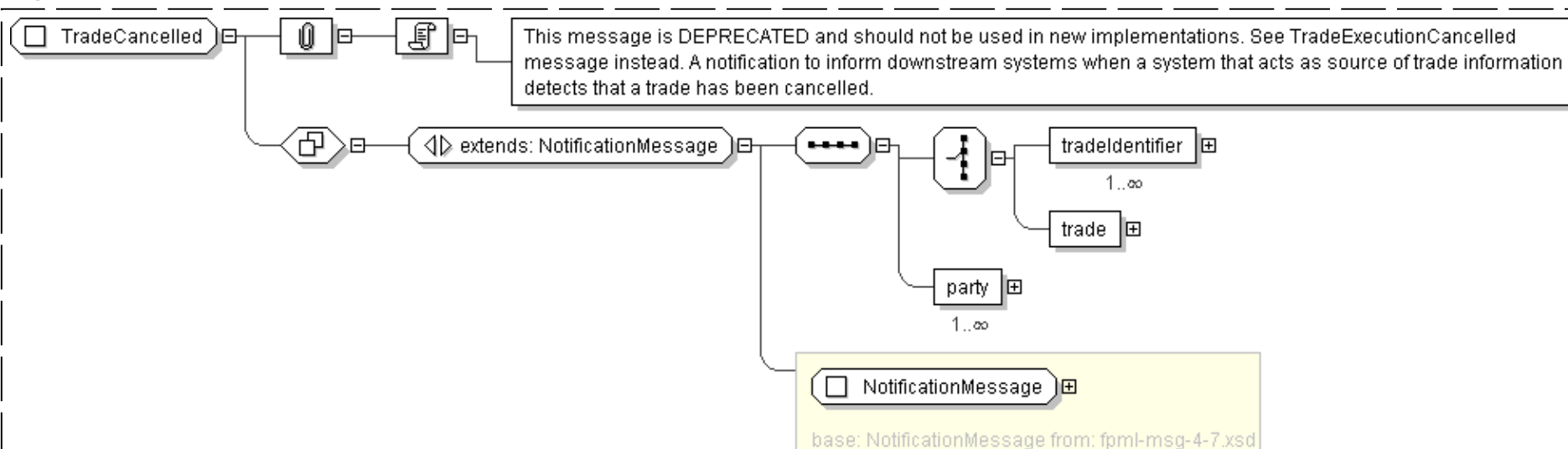
```
<trade> Trade </trade> [1]
```

```
End Choice
```

```
<party> Party </party> [1..*]
```

```
</...>
```

## Diagram



Schema Component Representation

```
<xsd:complexType name="TradeCancelled" deprecated="true" deprecatedReason="Misuse of
this message was causing interoperability problems. See TradeExecutionCancelled
message instead.">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:choice>
          <xsd:element name="tradeIdentifier" type=" TradeIdentifier " maxOccurs="unbounded"/>
          <xsd:element name="trade" type=" Trade "/>
        </xsd:choice>
        <xsd:element name="party" type=" Party " maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: TradeCreated

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeCreated</b> (by extension)
Sub-types:	None

Name	TradeCreated
Abstract	no
Documentation	This message is DEPRECATED and should not be used in new implementations. See TradeExecution message instead. A notification to inform downstream systems when a system that acts as source of trade information detects that a new trade has been created.

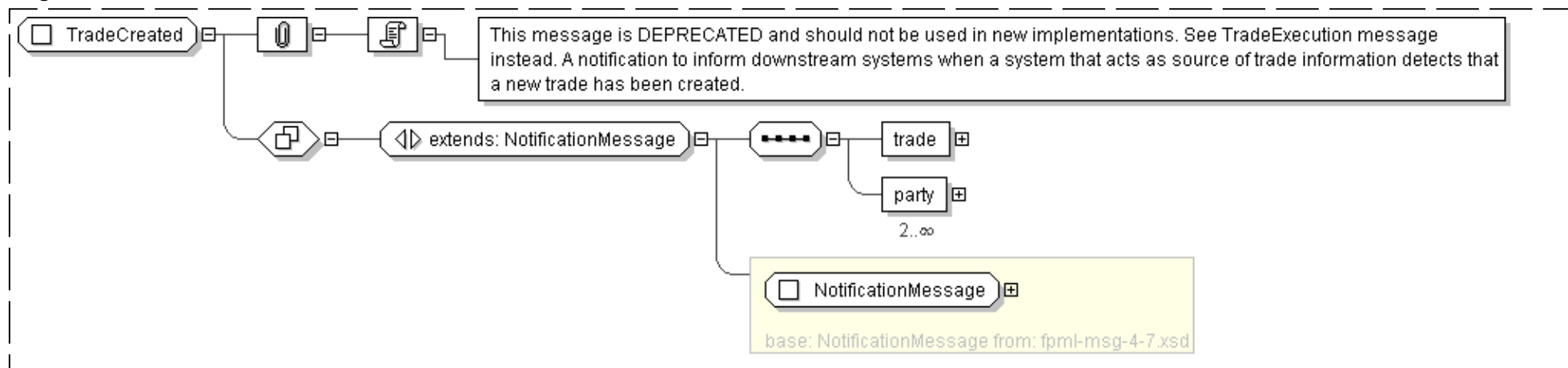
XML Instance Representation

```
<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-
7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to
specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in
an instance document. Instead, it is supplied by the XML parser when the document is
validated against the FpML schema and indicates the build number of the schema file. Every
```

time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

```
<?xml version='1.0' encoding='UTF-8'>
  <header> NotificationMessageHeader </header> [1]
  <validation> Validation </validation> [0..*]
  <trade> Trade </trade> [1]
  <party> Party </party> [2..*]
</...>
```

## Diagram



## Schema Component Representation

```
<xsd:complexType name="TradeCreated" deprecated="true" deprecatedReason="Misuse of this
message was causing interoperability problems. See TradeExecution message instead for
block-level trade execution.">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeExecution</b> (by extension)
Sub-types:	None

Name	TradeExecution
Abstract	no
Documentation	This message is used to report the execution of a block-level trade.

XML Instance Representation

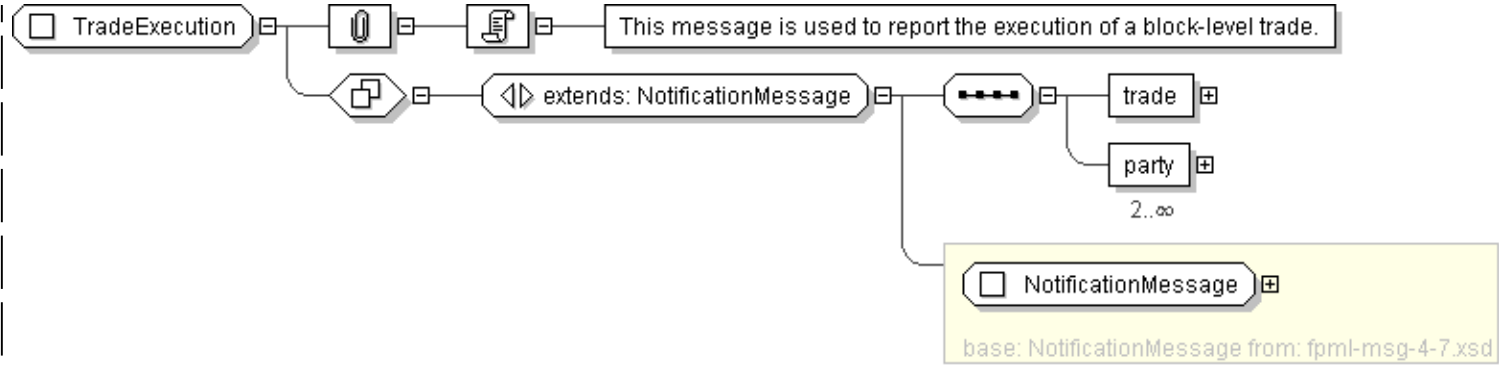
```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
  "
  actualBuild="5 [0..1]
  'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
  ">
    <header> NotificationMessageHeader </header> [1]
    <validation> Validation </validation> [0..*]
    <trade> Trade </trade> [1]
    'Block-level trade being executed.'

    <party> Party </party> [2..*]
    'Parties referenced by the trade.'

  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="TradeExecution">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage ">
      <xsd:sequence>
        <xsd:element name="trade" type=" Trade " />
        <xsd:element name="party" type=" Party " minOccurs="2" maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: TradeExecutionCancelled

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeExecutionCancelled</b> (by extension)
Sub-types:	None

Name	TradeExecutionCancelled
Abstract	no
Documentation	This message is used to cancel a previously reported trade execution, e.g. if the trade was raised in error.

XML Instance Representation

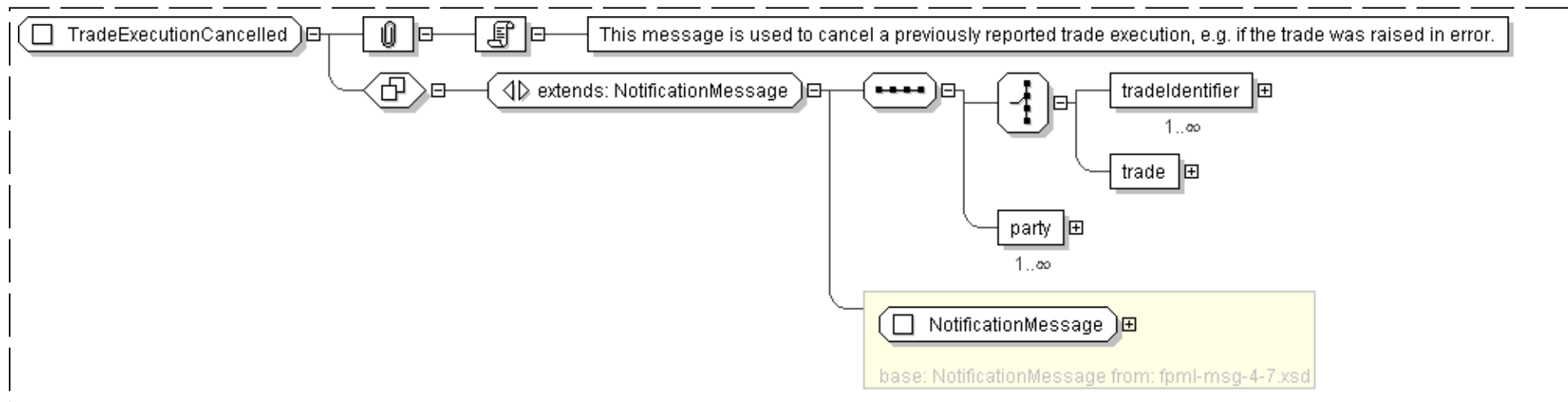
```
<...
  version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
  'Indicate which version of the FpML Schema an FpML message adheres to.'
  "
  expectedBuild=" xsd:positiveInteger [0..1]
  'This optional attribute can be supplied by a message creator in an FpML instance to
```

specify which build number of the schema was used to define the message when it was generated.'

"  
actualBuild="5 [0..1]  
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'

">  
    <header> NotificationMessageHeader </header> [1]  
    <validation> Validation </validation> [0..\*]  
Start Choice [1]  
    <tradeIdentifier> PartyTradeIdentifier </tradeIdentifier> [1..\*]  
    <trade> Trade </trade> [1]  
End Choice  
    <party> Party </party> [1..\*]  
    'Parties referenced by the trade.'  
  
</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="TradeExecutionCancelled">
  <xsd:complexContent>
    <xsd:extension base=" NotificationMessage " >
      <xsd:sequence>
        <xsd:choice>
```

```

        <xsd:element name="tradeIdentifier" type=" PartyTradeIdentifier " maxOccurs="unbounded" />
        <xsd:element name="trade" type=" Trade " />
    </xsd:choice>
    <xsd:element name="party" type=" Party " maxOccurs="unbounded" />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

[top](#)

Complex Type: **TradeExecutionModified**

Super-types:	<a href="#">NotificationMessage</a> < <b>TradeExecutionModified</b> (by extension)
Sub-types:	None

Name	TradeExecutionModified
Abstract	no
Documentation	This message is used to report a modification to a previously-reported trade execution.

XML Instance Representation

```

<...
version=" xsd:token (value comes from list: {'4-0'|'4-1'|'4-2'|'4-3'|'4-4'|'4-5'|'4-6'|'4-7'}) [1]
'Indicate which version of the FpML Schema an FpML message adheres to.'
"
expectedBuild=" xsd:positiveInteger [0..1]
'This optional attribute can be supplied by a message creator in an FpML instance to specify which build number of the schema was used to define the message when it was generated.'
"
actualBuild="5 [0..1]
'The specific build number of this schema version. This attribute is not included in an instance document. Instead, it is supplied by the XML parser when the document is validated against the FpML schema and indicates the build number of the schema file. Every time FpML publishes a change to the schema, validation rules, or examples within a version (e.g., version 4.2) the actual build number is incremented. If no changes have been made between releases within a version (i.e. from Trial Recommendation to Recommendation) the actual build number stays the same.'
">
    <header> NotificationMessageHeader </header> [1]
    <validation> Validation </validation> [0..*]
Start Choice [0..1]

```

```

<originalTrade> Trade </originalTrade> [1]
'Complete description of the trade prior to the modification.'

<originalTradeIdentifier> PartyTradeIdentifier </originalTradeIdentifier> [1..*]
'Identifiers of the trade prior to the modification.'

End Choice

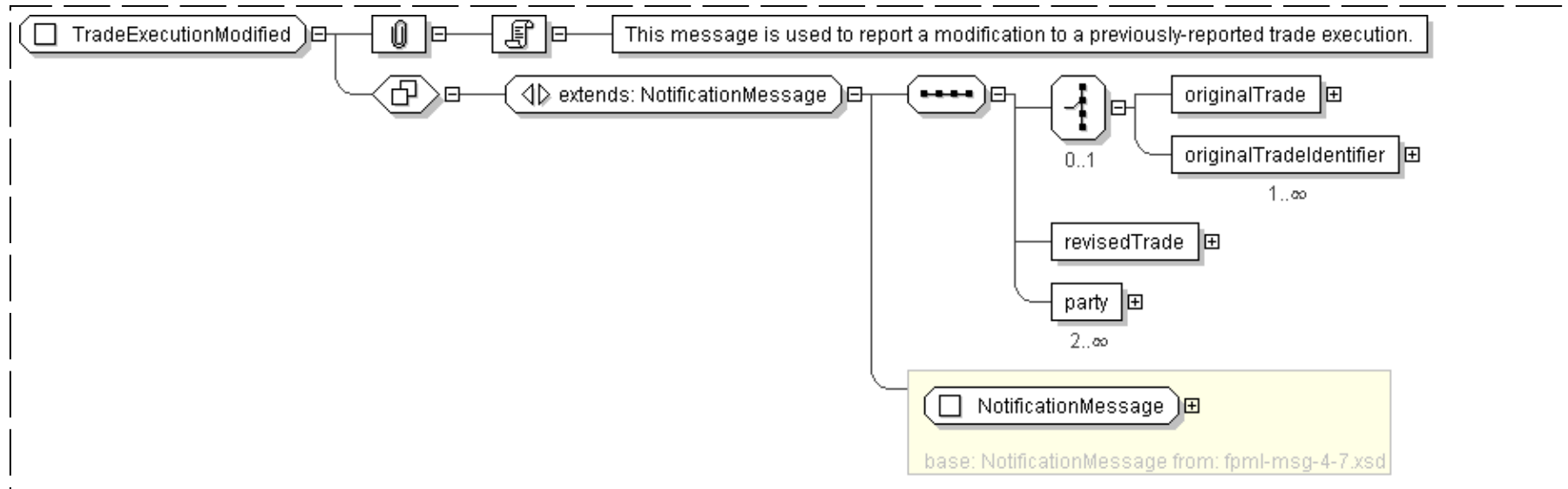
<revisedTrade> Trade </revisedTrade> [1]
'Complete description of the trade after the modification.'

<party> Party </party> [2..*]
'Parties referenced by the trade.'

</...>

```

## Diagram



## Schema Component Representation

```

<xsd:complexType name="TradeExecutionModified">
  <xsd:complexContent>
    <xsd:extension base="NotificationMessage">
      <xsd:sequence>
        <xsd:choice minOccurs="0">
          <xsd:element name="originalTrade" type="Trade"/>
          <xsd:element name="originalTradeIdentifier" type="PartyTradeIdentifier"
            maxOccurs="unbounded"/>
        </xsd:choice>
        <xsd:element name="revisedTrade" type="Trade"/>
        <xsd:element name="party" type="Party" minOccurs="2" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

```
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
```

Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:

[Address](#) < AusAddress (by extension)

Sub-types:

- [QLDAddress](#) (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](http://www.w3.org/TR/xmlschema-1/#cKey-Constraint) or [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#cUniqueness-Constraint). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-Constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-Constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-Constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-Constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 6304 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>• This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li>◦ <a href="#">fpml-riskdef-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 6304 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-riskdef-4-7.xsd"/>
  ...
</xsd:schema>
```

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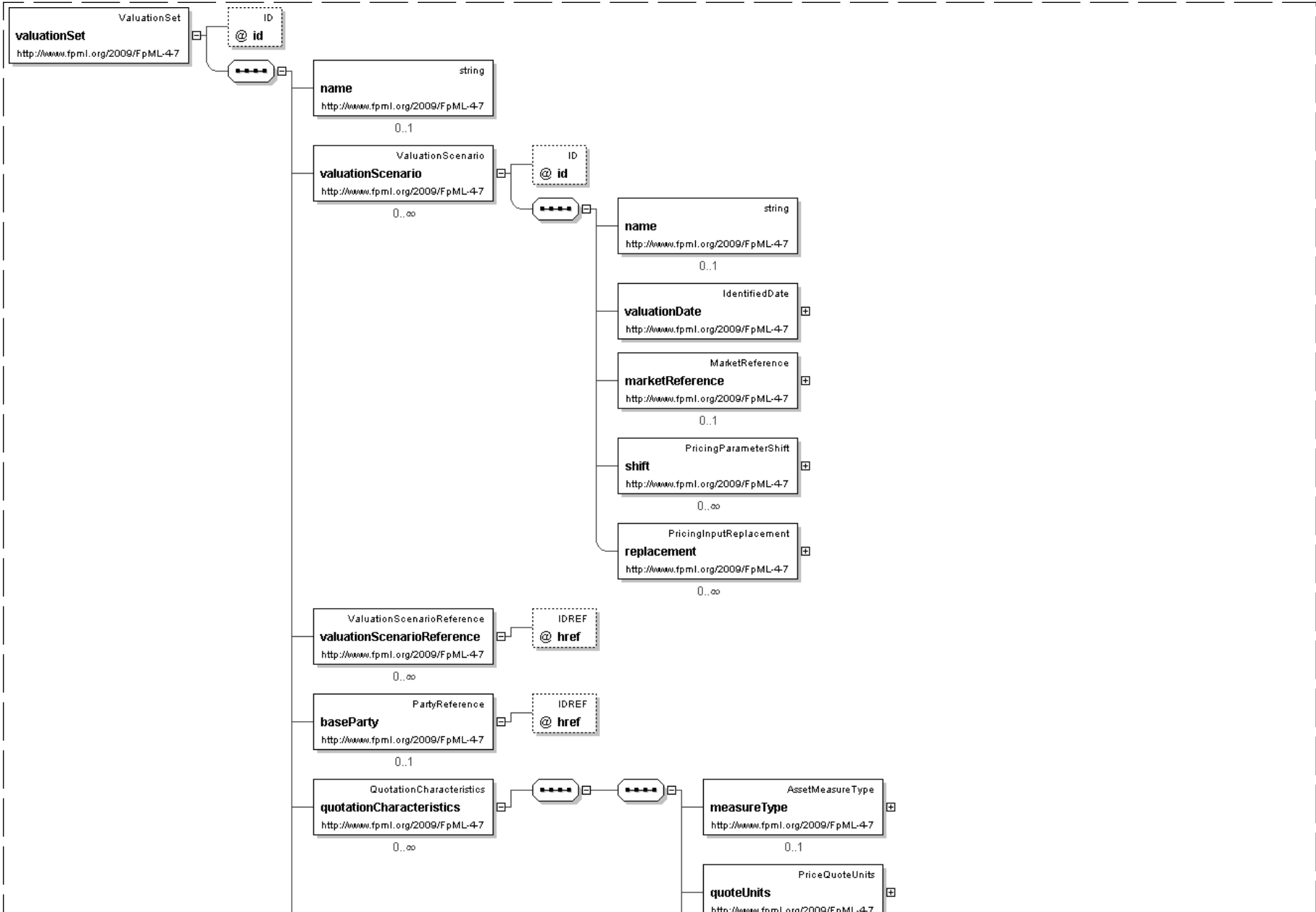


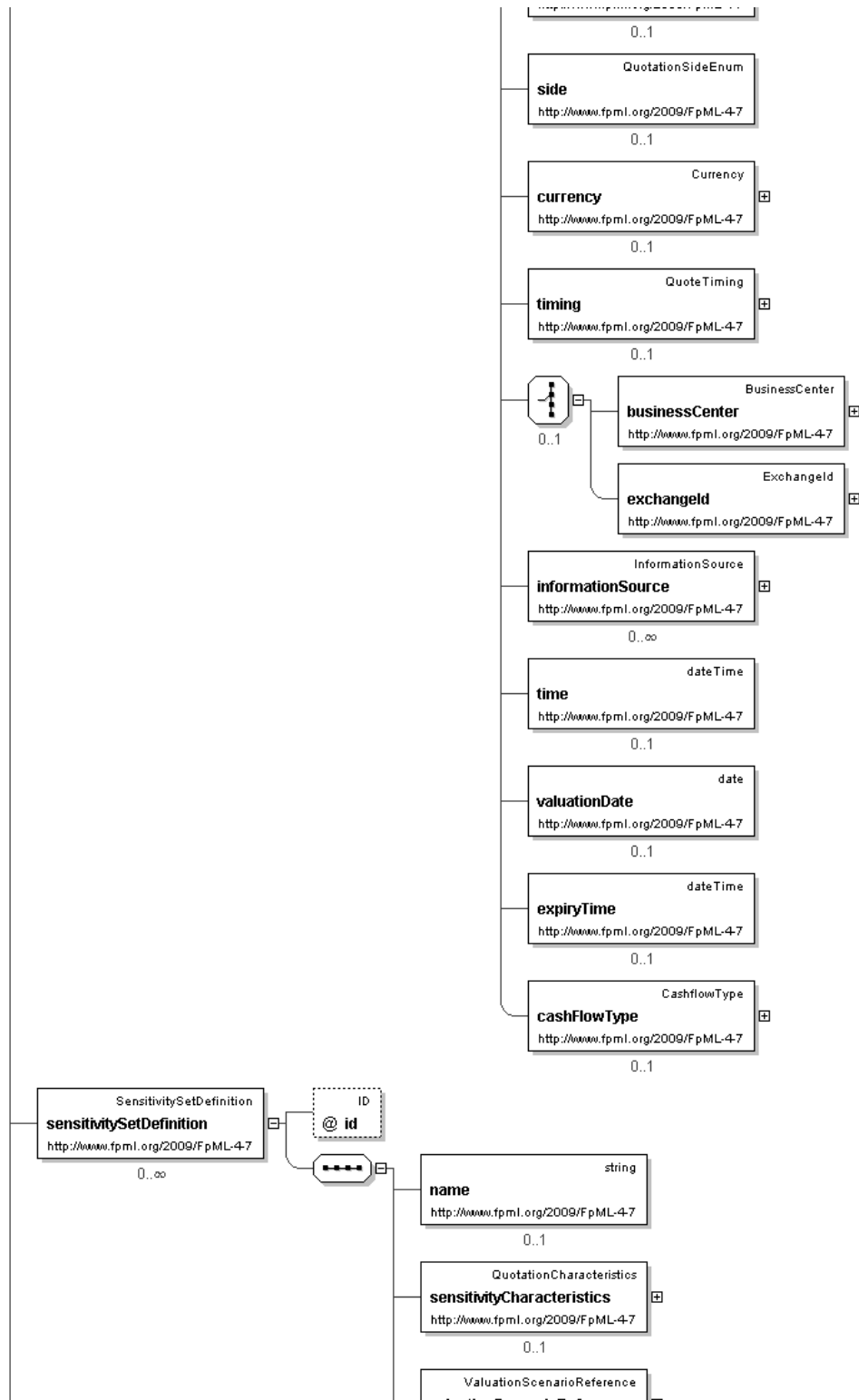
Global Declarations

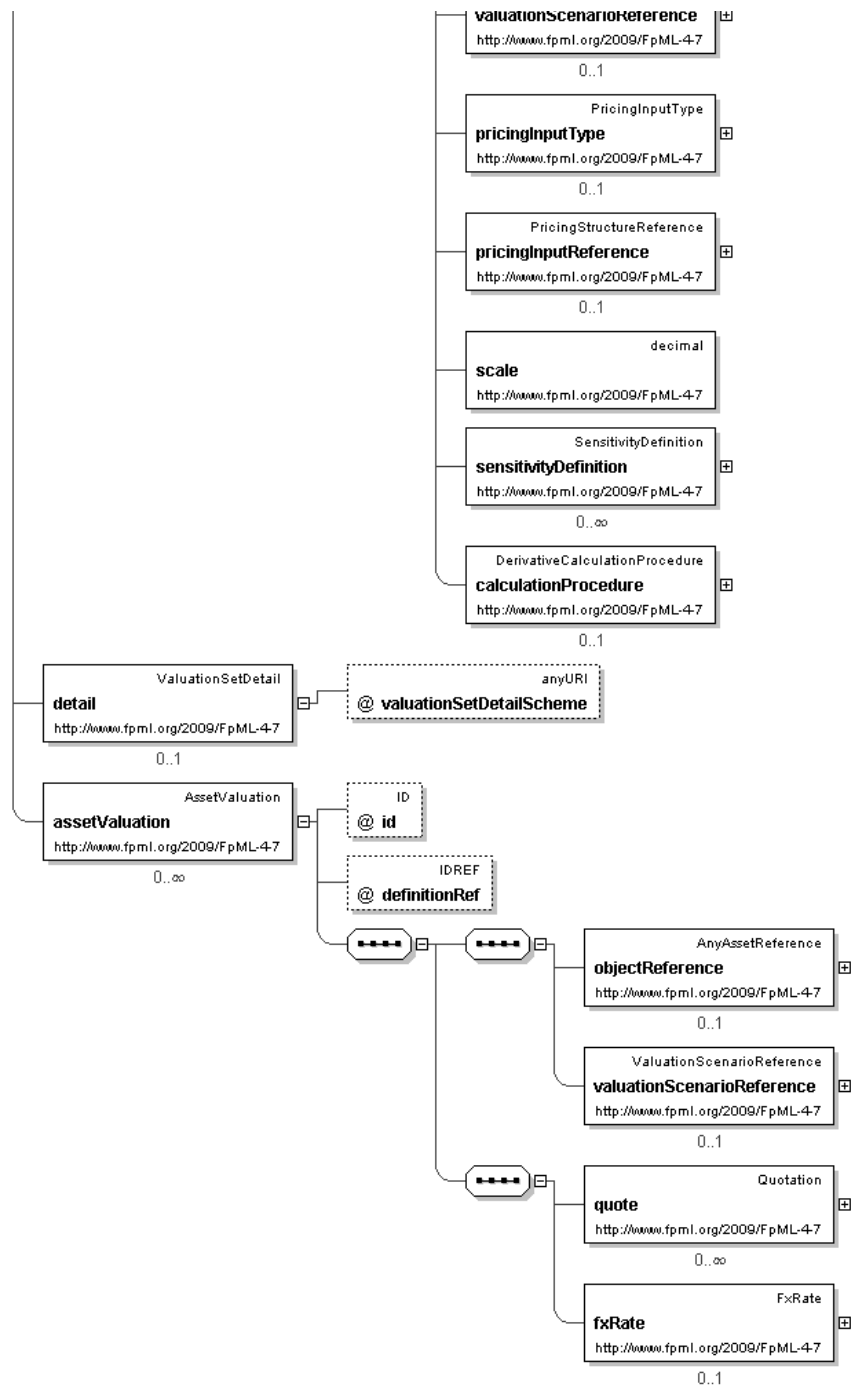
Element: **valuationSet**

Name	valuationSet
Type	<a href="#">ValuationSet</a>
Nullable	no
Abstract	no

Logical Diagram







## XML Instance Representation

```

<valuationSet
  id="xsd:ID [0..1]">
  <name>xsd:string </name> [0..1]

```

'The name of the valuation set, used to understand what it means. E.g., \"EOD Values and Risks for Party A\".'

<valuationScenario> [ValuationScenario](#) </valuationScenario> [0..\*]

'Valuation scenarios used (requested/reported) in this valuation set. E.g., the EOD valuation scenario for a particular value date. Used for the first occurrence of a valuation scenario in a document.'

<valuationScenarioReference> [ValuationScenarioReference](#) </valuationScenarioReference> [0..\*]

'References to valuation scenarios used (requested/reported) in this valuation set. E.g., a reference to the EOD valuation scenario for a particular value date. Used for subsequence occurrences of a valuation set in an FpML document.'

<baseParty> [PartyReference](#) </baseParty> [0..1]

'Reference to the party from whose point of view the assets are valued.'

<quotationCharacteristics> [QuotationCharacteristics](#) </quotationCharacteristics> [0..\*]

'Characteristics (measure types, units, sides, etc.) of the quotes used (requested/reported) in the valuation set.'

<sensitivitySetDefinition> [SensitivitySetDefinition](#) </sensitivitySetDefinition> [0..\*]

'Definition(s) of sensitivity sets used (requested or reported) in this valuation set.'

<detail> [ValuationSetDetail](#) </detail> [0..1]

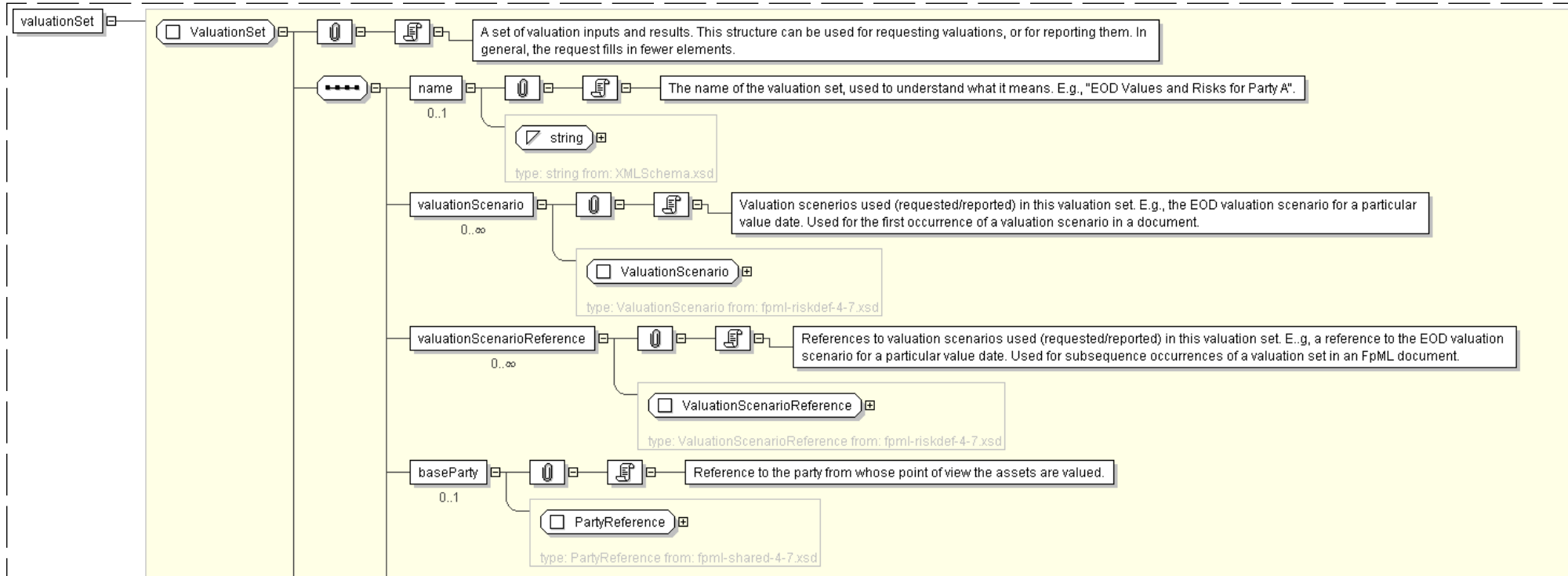
'Does this valuation set include a market environment?'

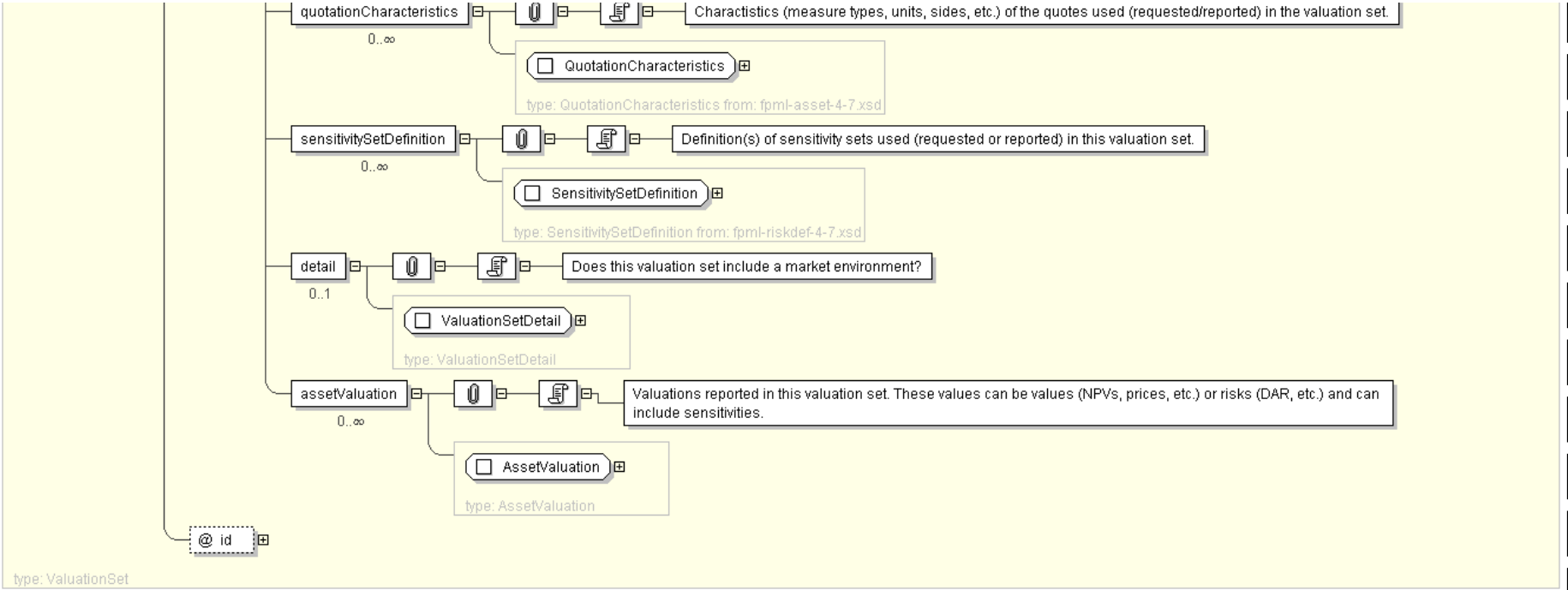
<assetValuation> [AssetValuation](#) </assetValuation> [0..\*]

'Valuations reported in this valuation set. These values can be values (NPVs, prices, etc.) or risks (DAR, etc.) and can include sensitivities.'

</valuationSet>

#### Diagram





Schema Component Representation

```
<xsd:element name="valuationSet" type="ValuationSet" />
```

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Global Definitions

Complex Type: **AssetValuation**

Super-types:	<a href="#">Valuation</a> < <b>AssetValuation</b> (by extension)
Sub-types:	None

Name	AssetValuation
Used by (from the same schema document)	Complex Type <a href="#">Position</a> , Complex Type <a href="#">ValuationSet</a> , Model Group <a href="#">AssetValuationOrReference.model</a> , Model Group <a href="#">AssociatedValue.model</a>
Abstract	no
Documentation	A structure that holds a set of measures about an asset, including possibly their sensitivities.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]"  
  definitionRef=" xsd:IDREF [0..1]"  
  
  'An optional reference to the scenario that this valuation applies to.'  
  
>  
  <objectReference> AnyAssetReference </objectReference> [0..1]  
  'A reference to the asset or pricing structure that this values.'  
  
  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..1]  
  'A reference to the valuation scenario used to calculate this valuation. If the
```

Valuation occurs within a ValuationSet, this value is optional and is defaulted from the ValuationSet. If this value occurs in both places, the lower level value (i.e. the one here) overrides that in the higher (i.e. ValuationSet).'

<quote> Quotation </quote> [0..\*]

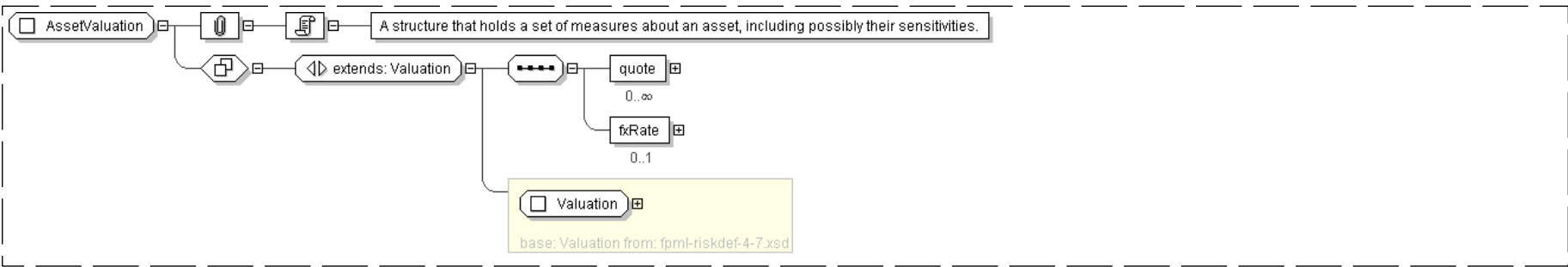
'One or more numerical measures relating to the asset, possibly together with sensitivities of that measure to pricing inputs.'

<fxRate> FxRate </fxRate> [0..1]

'Indicates the rate of a currency conversion that may have been used to compute valuations.'

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="AssetValuation">
  <xsd:complexContent>
    <xsd:extension base="Valuation">
      <xsd:sequence>
        <xsd:element name="quote" type="Quotation" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="fxRate" type="FxRate" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: **DerivedValuationScenario**

Super-types:	None
Sub-types:	None

Name	DerivedValuationScenario
Abstract	no
Documentation	A valuation scenario that is derived from another valuation scenario.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]*">
  <name> xsd:string </name> [0..1]
  'The (optional) name for this valuation scenario, used for understandability. For example
  \"EOD Valuations\".'ValuationScenarioReference </baseValuationScenario> [1]
  'An (optional) reference to a valuation scenario from which this one is derived.'

  <valuationDate> IdentifiedDate </valuationDate> [0..1]
```

'The (optional) date for which the assets are valued. If not present, the valuation date will be that of the base valuation scenario.'

<marketReference> [MarketReference](#) </marketReference> [0..1]

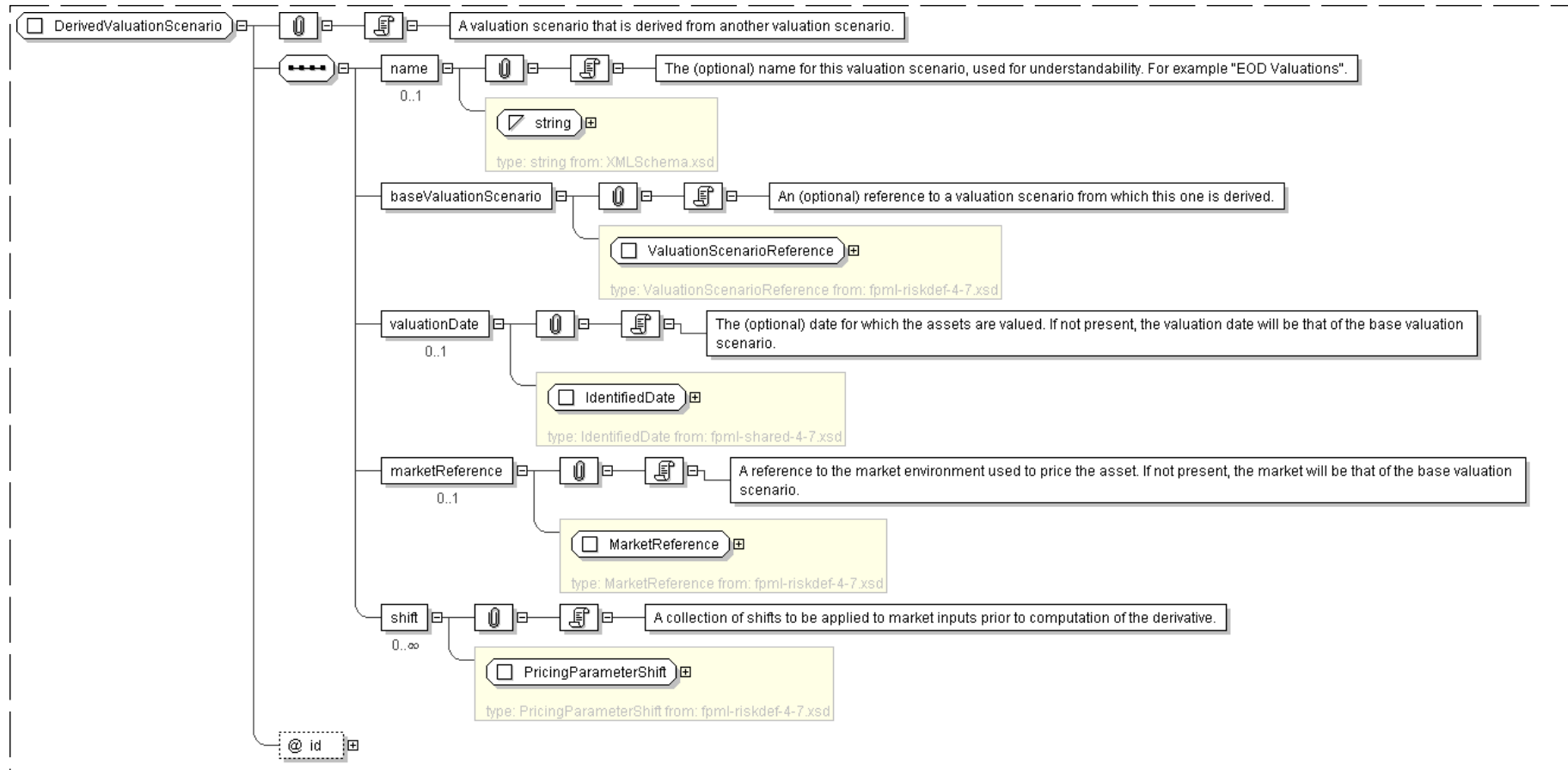
'A reference to the market environment used to price the asset. If not present, the market will be that of the base valuation scenario.'

<shift> [PricingParameterShift](#) </shift> [0..\*]

'A collection of shifts to be applied to market inputs prior to computation of the derivative.'

</...>

#### Diagram



#### Schema Component Representation

```

<xsd:complexType name="DerivedValuationScenario">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string" minOccurs="0"/>
    <xsd:element name="baseValuationScenario" type="ValuationScenarioReference" />
    <xsd:element name="valuationDate" type="IdentifiedDate" minOccurs="0"/>
    <xsd:element name="marketReference" type="MarketReference" minOccurs="0"/>
    <xsd:element name="shift" type="PricingParameterShift" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID" />
</xsd:complexType>
  
```

Complex Type: **Position**

Super-types:	None
Sub-types:	None

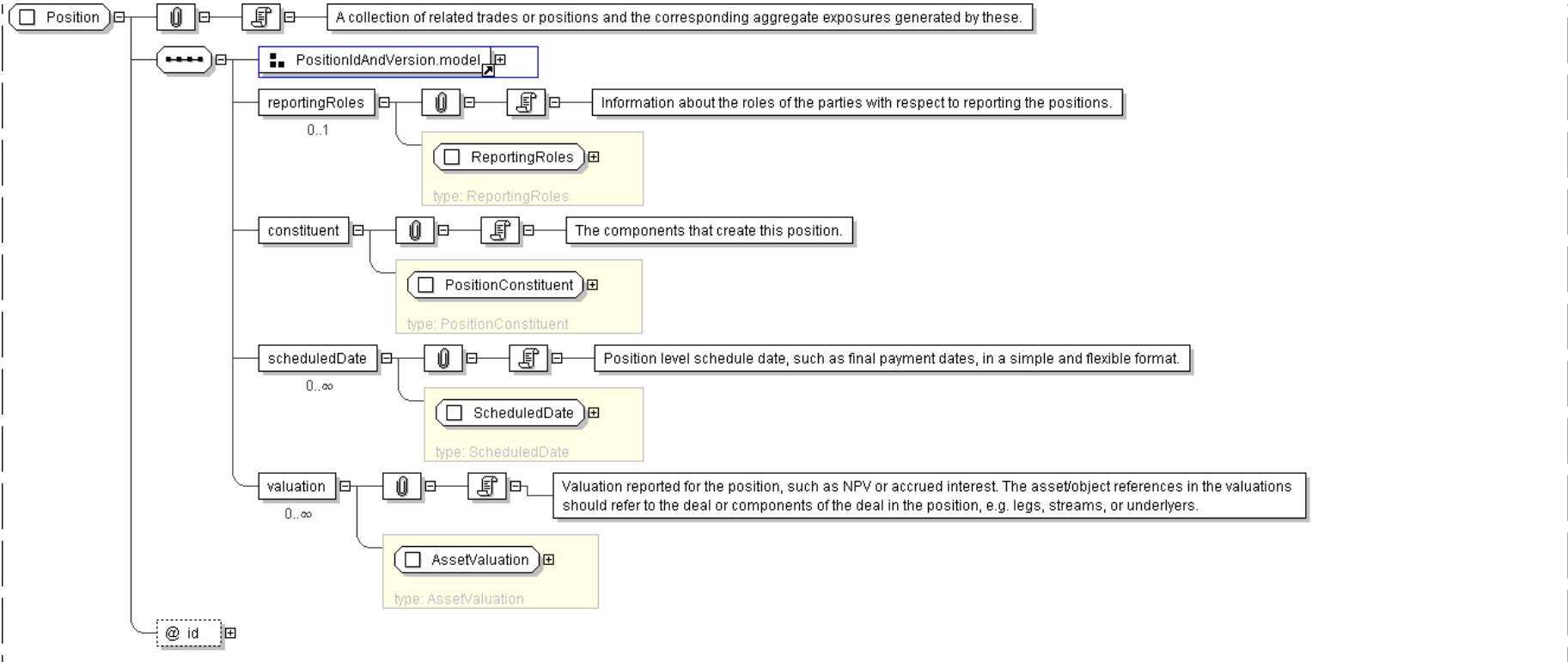
Name	Position
Abstract	no
Documentation	A collection of related trades or positions and the corresponding aggregate exposures generated by these.

XML Instance Representation

```
<...  
  id=" xsd:ID [0..1]*">  
    <positionId> PositionId </positionId> [1]  
    'A version-independent identifier for the position, possibly based on trade identifier.'  
  
    <version> xsd:positiveInteger </version> [0..1]  
    'A version identifier. Version identifiers must be ascending, i.e. higher numbers imply  
    newer versions. There is no requirement that version identifiers for a position be  
    sequential or small, so for example timestamp-based version identifiers could be used.'  
  
    <reportingRoles> ReportingRoles </reportingRoles> [0..1]  
    'Information about the roles of the parties with respect to reporting the positions.'  
  
    <constituent> PositionConstituent </constituent> [1]  
    'The components that create this position.'  
  
    <scheduledDate> ScheduledDate </scheduledDate> [0..*]  
    'Position level schedule date, such as final payment dates, in a simple and flexible format.'  
  
    <valuation> AssetValuation </valuation> [0..*]  
    'Valuation reported for the position, such as NPV or accrued interest. The asset/  
    object references in the valuations should refer to the deal or components of the deal in  
    the position, e.g. legs, streams, or underlyers.'  
  
  </...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="Position">
  <xsd:sequence>
    <xsd:group ref=" PositionIdAndVersion.model " />
    <xsd:element name="reportingRoles" type=" ReportingRoles " minOccurs="0"/>
    <xsd:element name="constituent" type=" PositionConstituent " />
    <xsd:element name="scheduledDate" type=" ScheduledDate " minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="valuation" type=" AssetValuation " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type=" xsd:ID " />
</xsd:complexType>
```

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Complex Type: **PositionConstituent**

Super-types:	None
Sub-types:	None
Name	PositionConstituent
Used by (from the same schema document)	Complex Type <a href="#">Position</a>
Abstract	no
Documentation	The items (trades, trade references, holdings, other positions) that comprise this position. Currently a position may consist only of a single trade, a reference to a previously submitted position, or a reference to the trade. The choice structure is optional to allow extensions to be placed within this container.

XML Instance Representation

```
<...>
Start Choice [0..1]
  <trade> Trade </trade> [1]
</...>
```

'An element that allows the full details of the trade to be used as a mechanism for identifying the trade for which the post-trade event pertains.'

<contract> [Contract](#) </contract> [1]

'An element that allows the full details of the contract to be used as a mechanism for identifying the contract (at allocation level) for which the post-trade event pertains.'

<positionVersionReference> [xsd:positiveInteger](#) </positionVersionReference> [1]

'A previously submitted version of the position.'

<tradeReference> [PartyTradeIdentifiers](#) </tradeReference> [1]

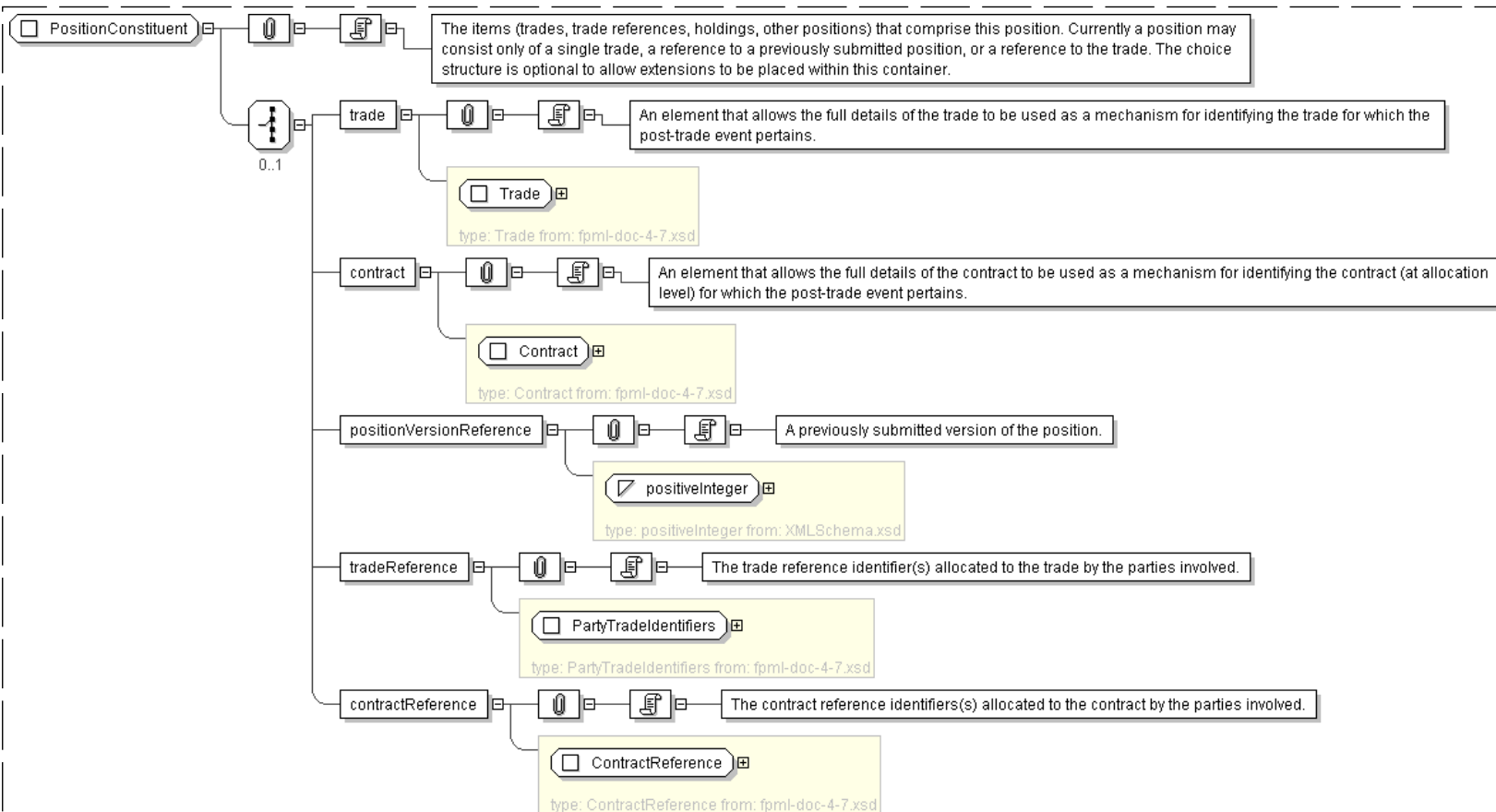
'The trade reference identifier(s) allocated to the trade by the parties involved.'

<contractReference> [ContractReference](#) </contractReference> [1]

'The contract reference identifiers(s) allocated to the contract by the parties involved.'

End Choice  
</...>

## Diagram



## Schema Component Representation

```
<xsd:complexType name="PositionConstituent">
  <xsd:choice minOccurs="0">
    <xsd:element name="trade" type="Trade" />
    <xsd:element name="contract" type="Contract" />
  </xsd:choice>
</xsd:complexType>
```

```
<xsd:element name="positionVersionReference" type="xsd:positiveInteger" />
<xsd:element name="tradeReference" type="PartyTradeIdentifiers" />
<xsd:element name="contractReference" type="ContractReference" />
</xsd:choice>
</xsd:complexType>
```

[top](#)

Complex Type: **Quotation**

Super-types:	None
Sub-types:	None
Name	Quotation
Used by (from the same schema document)	Complex Type <a href="#">AssetValuation</a>
Abstract	no
Documentation	Some kind of numerical measure about an asset, eg. its NPV, together with characteristics of that measure, together with optional sensitivities.

XML Instance Representation

```
<...>
<value> xsd:decimal </value> [0..1]
  'The value of the the quotation.'
```

```
<valuationDate> xsd:date </valuationDate> [0..1]
'When the quote was computed.'

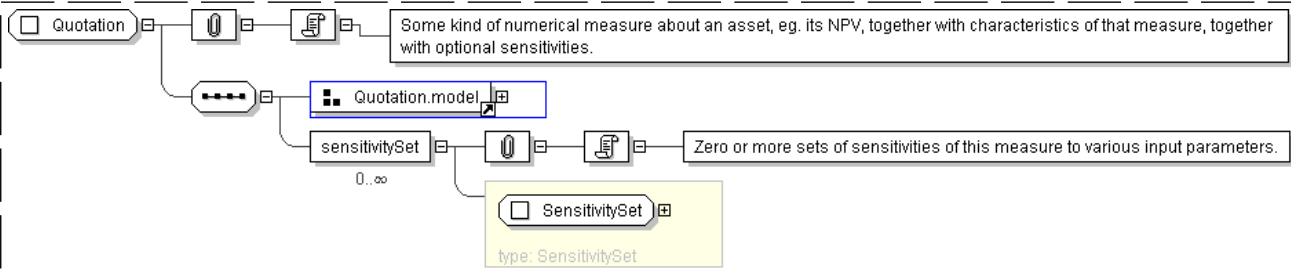
<expiryTime> xsd:dateTime </expiryTime> [0..1]
'When does the quote cease to be valid.'

<cashFlowType> CashflowType </cashFlowType> [0..1]
'For cash flows, the type of the cash flows. Examples include: Coupon payment, Premium
Fee, Settlement Fee, Brokerage Fee, etc.'

<sensitivitySet> SensitivitySet </sensitivitySet> [0..*]
'Zero or more sets of sensitivities of this measure to various input parameters.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Quotation">
  <xsd:sequence>
    <xsd:group ref=" Quotation.model " />
    <xsd:element name="sensitivitySet" type=" SensitivitySet " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **ReportingRoles**

Super-types:	None
Sub-types:	None
Name	ReportingRoles
Used by (from the same schema document)	Complex Type <a href="#">Position</a>
Abstract	no
Documentation	The roles of the parties in reporting information such as positions.

XML Instance Representation

```
<...>
<baseParty> PartyReference </baseParty> [1]
'A reference to the party from whose perspective the position is valued, ie. the owner
or holder of the position.'

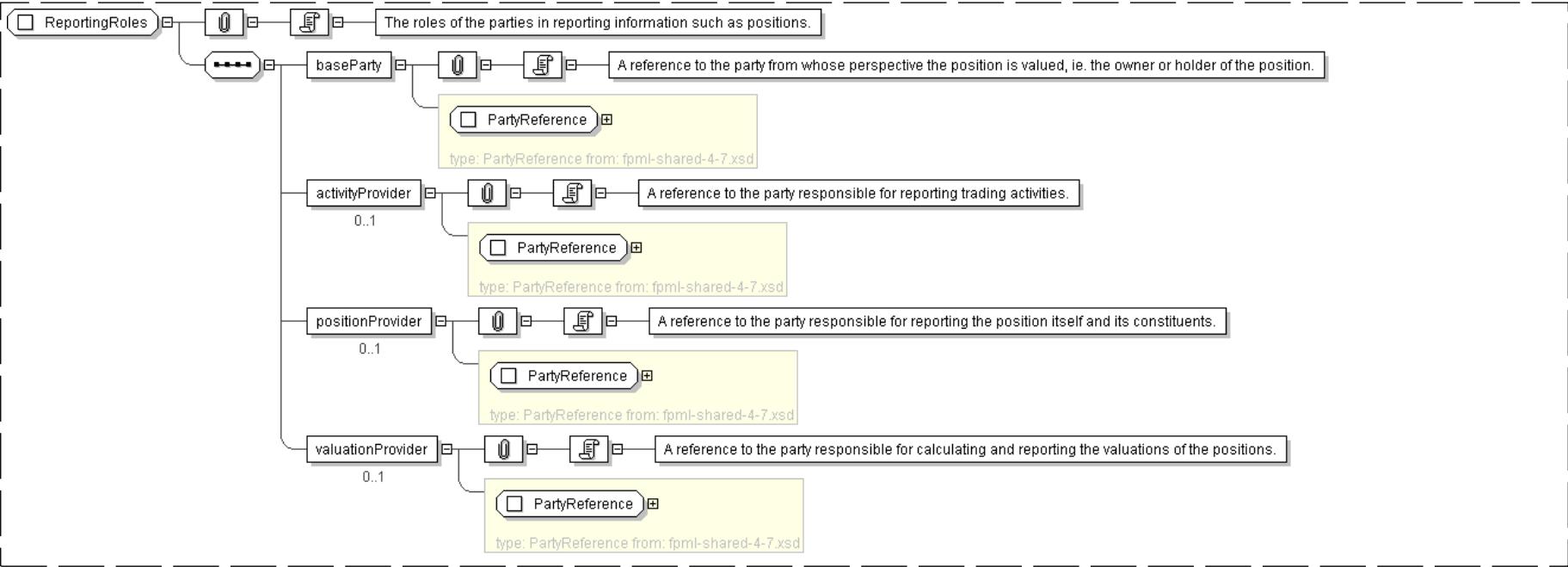
<activityProvider> PartyReference </activityProvider> [0..1]
'A reference to the party responsible for reporting trading activities.'

<positionProvider> PartyReference </positionProvider> [0..1]
'A reference to the party responsible for reporting the position itself and its constituents.'
```

```
<valuationProvider> PartyReference </valuationProvider> [0..1]
'A reference to the party responsible for calculating and reporting the valuations of
the positions.'
```

```
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ReportingRoles">
  <xsd:sequence>
    <xsd:element name="baseParty" type=" PartyReference " />
    <xsd:element name="activityProvider" type=" PartyReference " minOccurs="0"/>
    <xsd:element name="positionProvider" type=" PartyReference " minOccurs="0"/>
    <xsd:element name="valuationProvider" type=" PartyReference " minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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Complex Type: **ScheduledDate**

Super-types:	None
Sub-types:	None

Name	ScheduledDate
Used by (from the same schema document)	Complex Type <a href="#">Position</a> , Complex Type <a href="#">ScheduledDates</a>
Abstract	no
Documentation	An servicing date relevant for a trade structure, such as a payment or a reset.

XML Instance Representation

```
<...>
  Start Choice [1]
    <unadjustedDate> xsd:date </unadjustedDate> [1]
```

```
<adjustedDate> xsd:date </adjustedDate> [0..1]
<adjustedDate> xsd:date </adjustedDate> [1]
End Choice
<type> ScheduledDateType </type> [1]
'The type of the date, e.g. next or previous payment.'

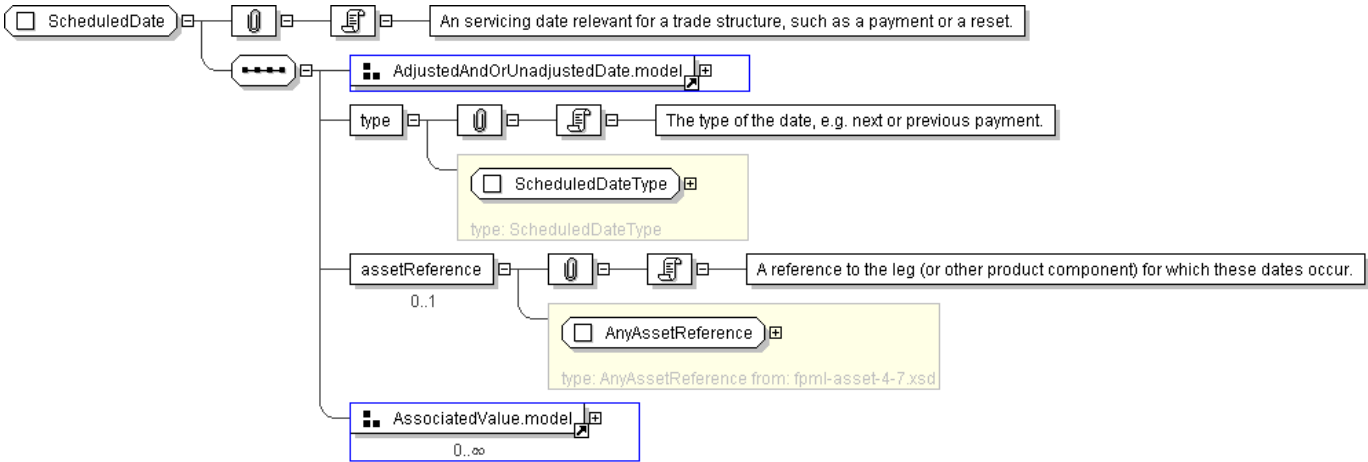
<assetReference> AnyAssetReference </assetReference> [0..1]
'A reference to the leg (or other product component) for which these dates occur.'

Start Group: AssociatedValue.model [0..*]
Start Choice [1]
<associatedValue> AssetValuation </associatedValue> [1]
'The value that is associated with the scheduled date.'

<associatedValueReference> ValuationReference </associatedValueReference> [1]
'A reference to the value associated with this scheduled date.'

End Choice
End Group: AssociatedValue.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ScheduledDate">
  <xsd:sequence>
    <xsd:group ref=" AdjustedAndOrUnadjustedDate.model " />
    <xsd:element name="type" type=" ScheduledDateType " />
    <xsd:element name="assetReference" type=" AnyAssetReference " minOccurs="0"/>
    <xsd:group ref=" AssociatedValue.model " minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

Complex Type: **ScheduledDateType**

Super-types:	<a href="#">Scheme</a> < <b>ScheduledDateType</b> (by extension)
Sub-types:	None

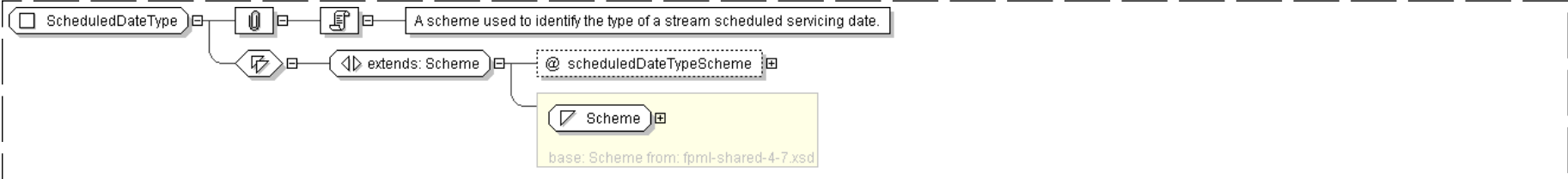
Name	ScheduledDateType
------	-------------------

Used by (from the same schema document)	Complex Type <a href="#">ScheduledDate</a>
Abstract	no
Documentation	A scheme used to identify the type of a stream scheduled servicing date.

XML Instance Representation

```
<...  
  scheduledDateTypeScheme=" xsd:anyURI [0..1]">  
    Scheme  
  </...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ScheduledDateType">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="scheduledDateTypeScheme" type=" xsd:anyURI " default="http://www.fpml.  
        org/coding-scheme/scheduled-date-type"/>  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **ScheduledDates**

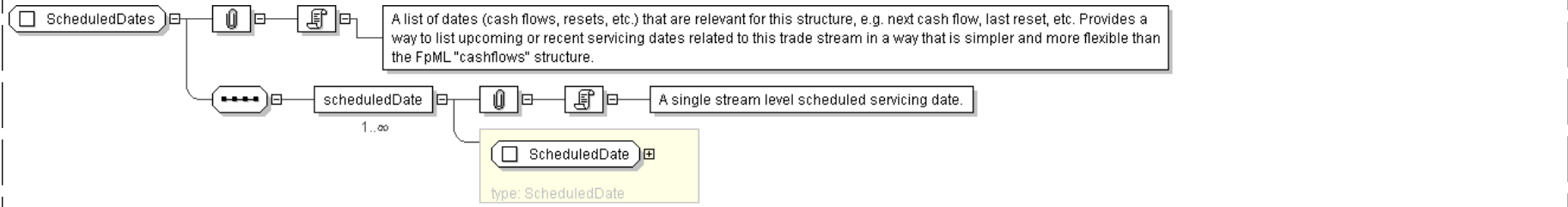
Super-types:	None
Sub-types:	None

Name	ScheduledDates
Abstract	no
Documentation	A list of dates (cash flows, resets, etc.) that are relevant for this structure, e.g. next cash flow, last reset, etc. Provides a way to list upcoming or recent servicing dates related to this trade stream in a way that is simpler and more flexible than the FpML "cashflows" structure.

XML Instance Representation

```
<...>  
  <scheduledDate> ScheduledDate </scheduledDate> [1..*]  
  'A single stream level scheduled servicing date.'  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ScheduledDates">
  <xsd:sequence>
    <xsd:element name="scheduledDate" type=" ScheduledDate " maxOccurs="unbounded" />
  </xsd:sequence>
</xsd:complexType>
```

[top](#)

Complex Type: **Sensitivity**

Super-types:	<a href="#">xsd:decimal</a> < <b>Sensitivity</b> (by extension)
Sub-types:	None

Name	Sensitivity
Used by (from the same schema document)	Complex Type <a href="#">SensitivitySet</a>
Abstract	no
Documentation	The sensitivity of a value to a defined change in input parameters.

XML Instance Representation

```
<...
  name=" xsd:normalizedString [0..1]
  'A optional name for this sensitivity. This is primarily intended for display purposes.'

  "
  definitionRef=" xsd:IDREF [0..1]
  'A optional (but normally supplied) reference to the definition of this sensitivity.'

">
xsd:decimal
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Sensitivity">
  <xsd:simpleContent>
    <xsd:extension base=" xsd:decimal ">
      <xsd:attribute name="name" type=" xsd:normalizedString "/>
      <xsd:attribute name="definitionRef" type=" xsd:IDREF "/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

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Complex Type: **SensitivitySet**



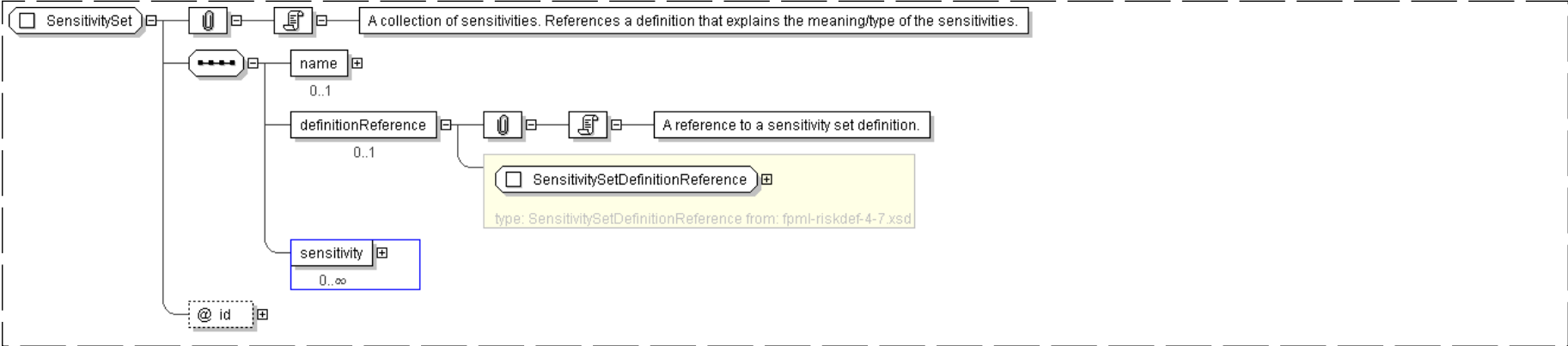
Super-types:	None
Sub-types:	None

Name	SensitivitySet
Used by (from the same schema document)	Complex Type <a href="#">Quotation</a>
Abstract	no
Documentation	A collection of sensitivities. References a definition that explains the meaning/type of the sensitivities.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]*"  
  <name> xsd:string </name> [0..1]  
  <definitionReference> SensitivitySetDefinitionReference </definitionReference> [0..1]  
  'A reference to a sensitivity set definition.'  
  <sensitivity> Sensitivity </sensitivity> [0..*]  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="SensitivitySet">  
  <xsd:sequence>  
    <xsd:element name="name" type=" xsd:string " minOccurs="0"/>  
    <xsd:element name="definitionReference" type=" SensitivitySetDefinitionReference "  
      " minOccurs="0"/>  
    <xsd:element name="sensitivity" type=" Sensitivity " minOccurs="0" maxOccurs="unbounded"/>  
  </xsd:sequence>  
  <xsd:attribute name="id" type=" xsd:ID "/>  
</xsd:complexType>
```

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Complex Type: **ValuationSet**

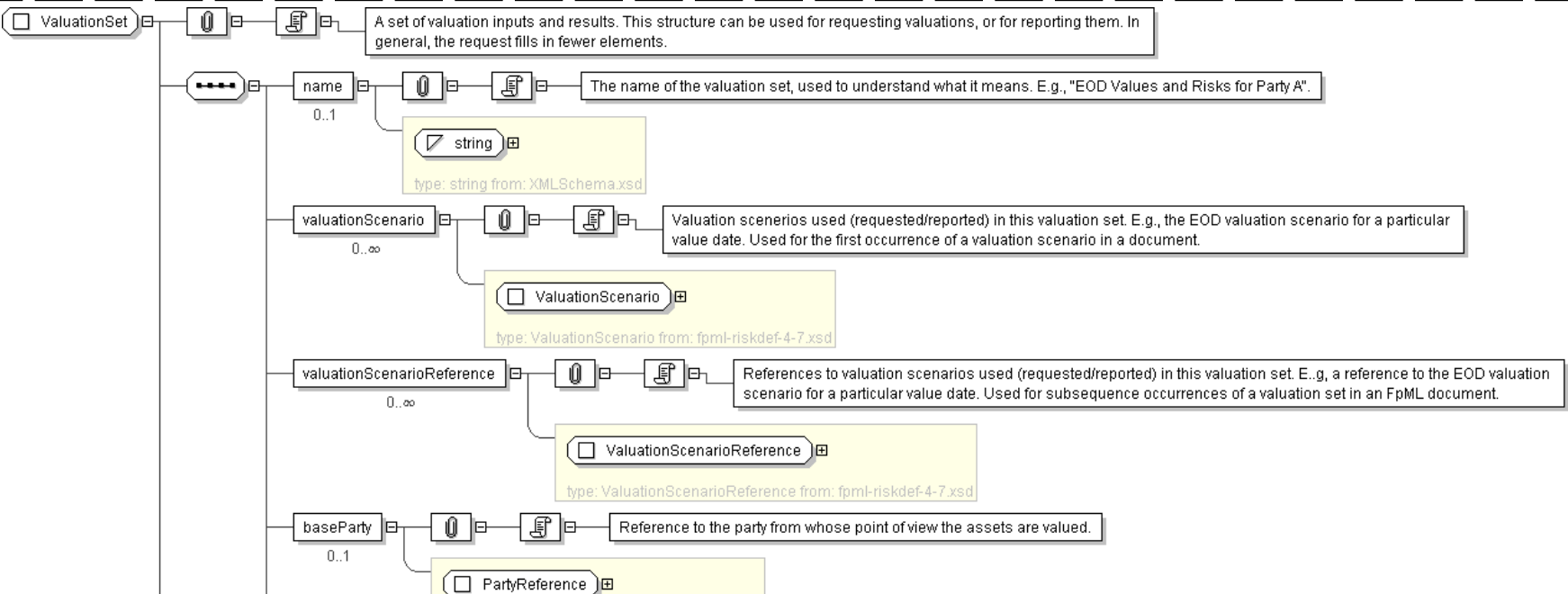
Super-types:	None
Sub-types:	None

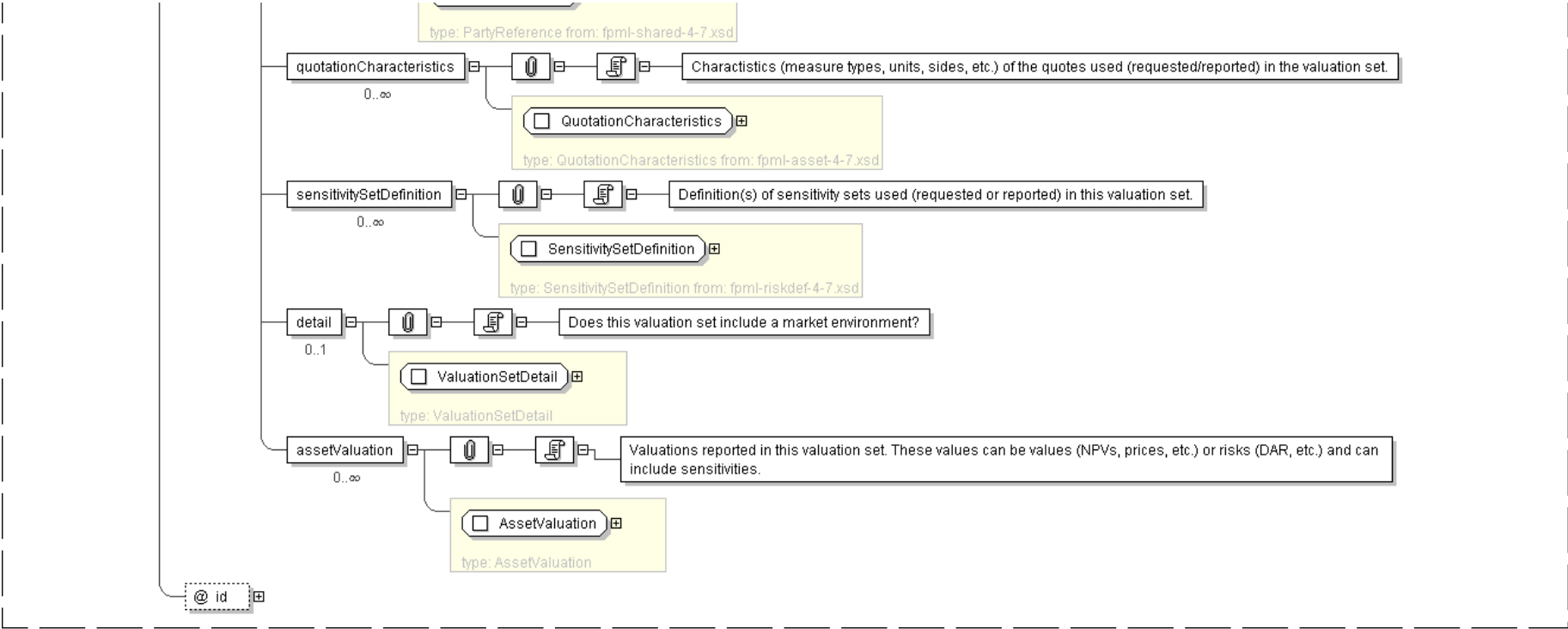
Name	ValuationSet
Used by (from the same schema document)	Element <a href="#">valuationSet</a>
Abstract	no
Documentation	A set of valuation inputs and results. This structure can be used for requesting valuations, or for reporting them. In general, the request fills in fewer elements.

XML Instance Representation

```
<...  
id=" xsd:ID [0..1]*">  
  <name> xsd:string </name> [0..1]  
  'The name of the valuation set, used to understand what it means. E.g., \"EOD Values and  
  Risks for Party A\".'  
  
  <valuationScenario> ValuationScenario </valuationScenario> [0..*]  
  'Valuation scenarios used (requested/reported) in this valuation set. E.g., the EOD  
  valuation scenario for a particular value date. Used for the first occurrence of a  
  valuation scenario in a document.'  
  
  <valuationScenarioReference> ValuationScenarioReference </valuationScenarioReference> [0..*]  
  'References to valuation scenarios used (requested/reported) in this valuation set. E.g.,  
  a reference to the EOD valuation scenario for a particular value date. Used for  
  subsequence occurrences of a valuation set in an FpML document.'  
  
  <baseParty> PartyReference </baseParty> [0..1]  
  'Reference to the party from whose point of view the assets are valued.'  
  
  <quotationCharacteristics> QuotationCharacteristics </quotationCharacteristics> [0..*]  
  'Characteristics (measure types, units, sides, etc.) of the quotes used (requested/reported)  
  in the valuation set.'  
  
  <sensitivitySetDefinition> SensitivitySetDefinition </sensitivitySetDefinition> [0..*]  
  'Definition(s) of sensitivity sets used (requested or reported) in this valuation set.'  
  
  <detail> ValuationSetDetail </detail> [0..1]  
  'Does this valuation set include a market environment?'  
  
  <assetValuation> AssetValuation </assetValuation> [0..*]  
  'Valuations reported in this valuation set. These values can be values (NPVs, prices, etc.)  
  or risks (DAR, etc.) and can include sensitivities.'  
  
</...>
```

Diagram





Schema Component Representation

```
<xsd:complexType name="ValuationSet">
  <xsd:sequence>
    <xsd:element name="name" type="xsd:string" minOccurs="0"/>
    <xsd:element name="valuationScenario" type="ValuationScenario"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="valuationScenarioReference" type="ValuationScenarioReference"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="baseParty" type="PartyReference" minOccurs="0"/>
    <xsd:element name="quotationCharacteristics" type="QuotationCharacteristics"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="sensitivitySetDefinition" type="SensitivitySetDefinition"
      minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="detail" type="ValuationSetDetail" minOccurs="0"/>
    <xsd:element name="assetValuation" type="AssetValuation" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="id" type="xsd:ID"/>
</xsd:complexType>
```

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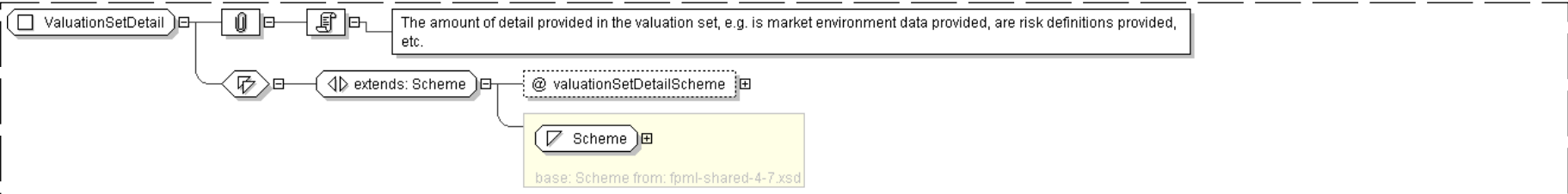
Complex Type: ValuationSetDetail

Super-types:	<a href="#">Scheme</a> < <b>ValuationSetDetail</b> (by extension)
Sub-types:	None
Name	ValuationSetDetail
Used by (from the same schema document)	Complex Type <a href="#">ValuationSet</a>
Abstract	no
Documentation	The amount of detail provided in the valuation set, e.g. is market environment data provided, are risk definitions provided, etc.

XML Instance Representation

```
<...  
valuationSetDetailsScheme=" xsd:anyURI [0..1]">  
  Scheme  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="ValuationSetDetail">  
  <xsd:simpleContent>  
    <xsd:extension base=" Scheme ">  
      <xsd:attribute name="valuationSetDetailsScheme" type=" xsd:anyURI "/">  
    </xsd:extension>  
  </xsd:simpleContent>  
</xsd:complexType>
```

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Complex Type: **Valuations**

Super-types:	None
Sub-types:	None
Name	Valuations
Abstract	no
Documentation	A set of valuation.

XML Instance Representation

```
<...>  
Start Group: AssetValuationOrReference.model [1..*]  
Start Choice [1]  
  <valuation> AssetValuation </valuation> [1]  
  ''  
  <valuationReference> ValuationReference </valuationReference> [1]  
  'A reference to a quotation'  
End Choice  
End Group: AssetValuationOrReference.model  
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="Valuations">
```

```
<xsd:sequence>
  <xsd:group ref=" AssetValuationOrReference.model " maxOccurs="unbounded" />
</xsd:sequence>
</xsd:complexType>
```

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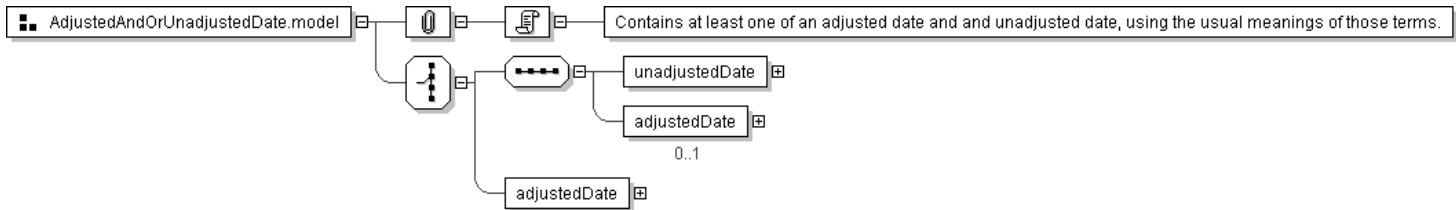
Model Group: **AdjustedAndOrUnadjustedDate.model**

Name	AdjustedAndOrUnadjustedDate.model
Used by (from the same schema document)	Complex Type <a href="#">ScheduledDate</a>
Documentation	Contains at least one of an adjusted date and and unadjusted date, using the usual meanings of those terms.

XML Instance Representation

```
Start Choice [1]
<unadjustedDate> xsd:date </unadjustedDate> [1]
<adjustedDate> xsd:date </adjustedDate> [0..1]
<adjustedDate> xsd:date </adjustedDate> [1]
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="AdjustedAndOrUnadjustedDate.model">
  <xsd:choice>
    <xsd:sequence>
      <xsd:element name="unadjustedDate" type=" xsd:date " />
      <xsd:element name="adjustedDate" type=" xsd:date " minOccurs="0"/>
    </xsd:sequence>
    <xsd:element name="adjustedDate" type=" xsd:date " />
  </xsd:choice>
</xsd:group>
```

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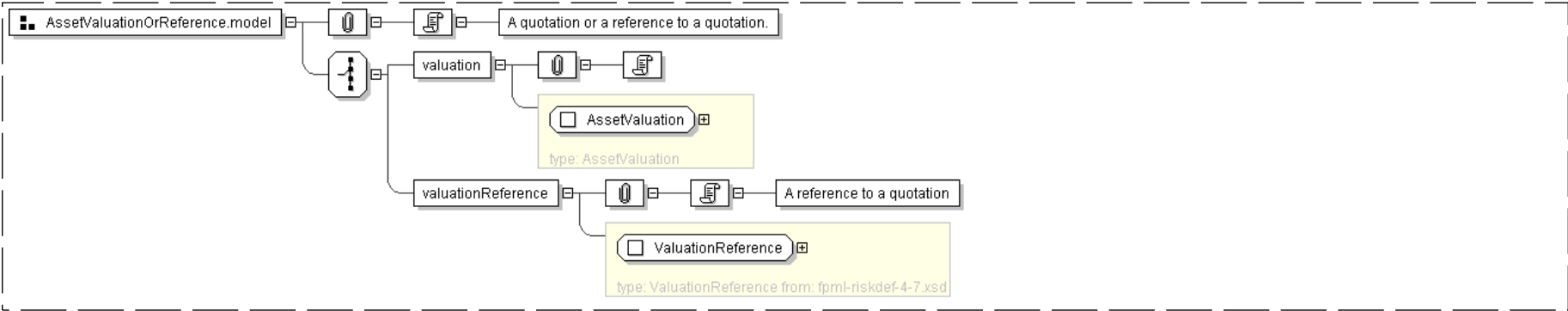
Model Group: **AssetValuationOrReference.model**

Name	AssetValuationOrReference.model
Used by (from the same schema document)	Complex Type <a href="#">Valuations</a>
Documentation	A quotation or a reference to a quotation.

XML Instance Representation

```
Start Choice [1]
<valuation> AssetValuation </valuation> [1]
''
<valuationReference> ValuationReference </valuationReference> [1]
'A reference to a quotation'
End Choice
```

Diagram



Schema Component Representation

```
<xsd:group name="AssetValuationOrReference.model">
  <xsd:choice>
    <xsd:element name="valuation" type="AssetValuation" />
    <xsd:element name="valuationReference" type="ValuationReference" />
  </xsd:choice>
</xsd:group>
```

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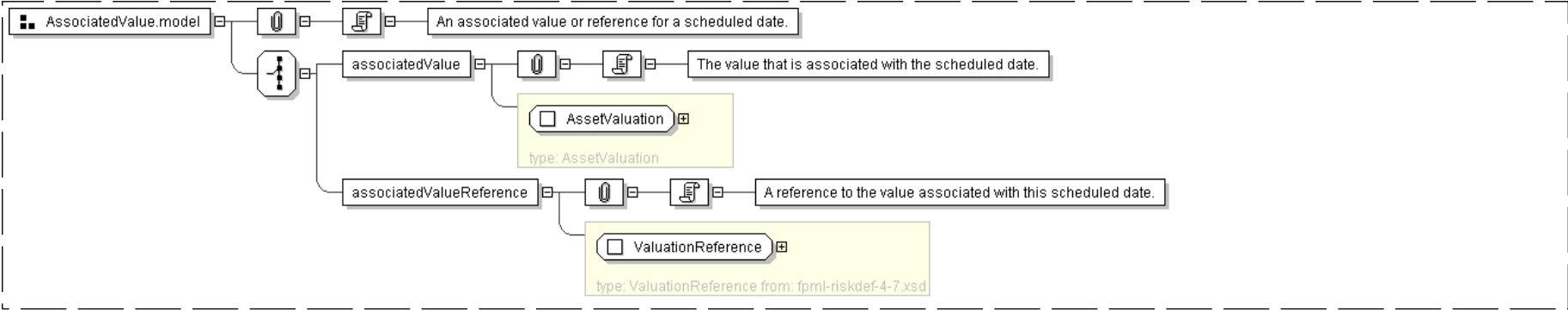
Model Group: AssociatedValue.model

Name	AssociatedValue.model
Used by (from the same schema document)	Complex Type <a href="#">ScheduledDate</a>
Documentation	An associated value or reference for a scheduled date.

XML Instance Representation

```
Start Choice [1]
<associatedValue> AssetValuation </associatedValue> [1]
  'The value that is associated with the scheduled date.'
```

Diagram



Schema Component Representation

```
<xsd:group name="AssociatedValue.model">
  <xsd:choice>
    <xsd:element name="associatedValue" type=" AssetValuation " />
    <xsd:element name="associatedValueReference" type=" ValuationReference " />
  </xsd:choice>
</xsd:group>
```

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Legend

**Complex Type:**                      **AusAddress**  
Schema Component Type                      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> <a href="#">AusStates</a> </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ..., End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" <a href="#">AusStates</a> " />
<element name="postcode">
<simpleType>
<restriction base=" string " >
<pattern value="[1-9][0-9]{3}" />
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia"/>

```
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi : type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nillable** (Applies to element declarations). If an element declaration is nillable, instances can use the  `xsi : nil`  attribute. The  `xsi : nil`  attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an  `xsi : nil`  attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.



**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
Version	\$Revision: 2527 \$
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>Global element and attribute declarations belong to this schema's target namespace.</li><li>By default, local element declarations belong to this schema's target namespace.</li><li>By default, local attribute declarations have no namespace.</li></ul>
Schema Composition	<ul style="list-style-type: none"><li>This schema includes components from the following schema document(s):<ul style="list-style-type: none"><li><a href="#">fpml-eqd-4-7.xsd</a></li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>
ecore	<a href="http://www.eclipse.org/emf/2002/Ecore">http://www.eclipse.org/emf/2002/Ecore</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
fpml-annotation	<a href="http://www.fpml.org/annotation">http://www.fpml.org/annotation</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
fpml	<a href="http://www.fpml.org/2009/FpML-4-7">http://www.fpml.org/2009/FpML-4-7</a>

### Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2009/FpML-4-7" version="$Revision: 2527 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
  <xsd:include schemaLocation="fpml-eqd-4-7.xsd" />
  ...
</xsd:schema>
```

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## Global Declarations

Element: **varianceOptionTransactionSupplement**

- . This element can be used wherever the following element is referenced:
  - o [product](#)

Name	varianceOptionTransactionSupplement
Type	<a href="#">VarianceOptionTransactionSupplement</a>
Niltable	no
Abstract	no
Documentation	Specifies the structure of a variance option.

Logical Diagram



XML Instance Representation

```
<varianceOptionTransactionSupplement
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'
  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'
  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]
  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'
  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]
  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'
  <optionType> OptionTypeEnum </optionType> [1]
  'The type of option transaction. From a usage standpoint, put/call is the default option
  type, while payer/receiver indicator is used for options index credit default
  swaps, consistently with the industry practice. Straddle is used for the case of
  straddle strategy, that combine a call and a put with the same strike.'
  <equityPremium> EquityPremium </equityPremium> [1]
  'The variance option premium payable by the buyer to the seller.'
  <equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]
  'The parameters for defining how the equity option can be exercised, how it is valued and
  how it is settled.'
  <exchangeLookAlike> xsd:boolean </exchangeLookAlike> [0..1]
  'For a share option transaction, a flag used to indicate whether the transaction is to
  be treated as an \'exchange look-alike\'. This designation has significance for how
  share adjustments (arising from corporate actions) will be determined for the transaction.
  For an \'exchange look-alike\' transaction the relevant share adjustments will follow that
  for a corresponding designated contract listed on the related exchange (referred to as
  Options Exchange Adjustment (ISDA defined term), otherwise the share adjustments will
  be determined by the calculation agent (referred to as Calculation Agent Adjustment
  (ISDA defined term)).'
  <methodOfAdjustment> MethodOfAdjustmentEnum </methodOfAdjustment> [0..1]
  'Defines how adjustments will be made to the contract should one or more of the
```

*extraordinary events occur.'*

Start Choice [0..1]

<optionEntitlement> PositiveDecimal </optionEntitlement> [1]

*'The number of shares per option comprised in the option transaction supplement.'*

<multiplier> PositiveDecimal </multiplier> [1]

*'Specifies the contract multiplier that can be associated with an index option.'*

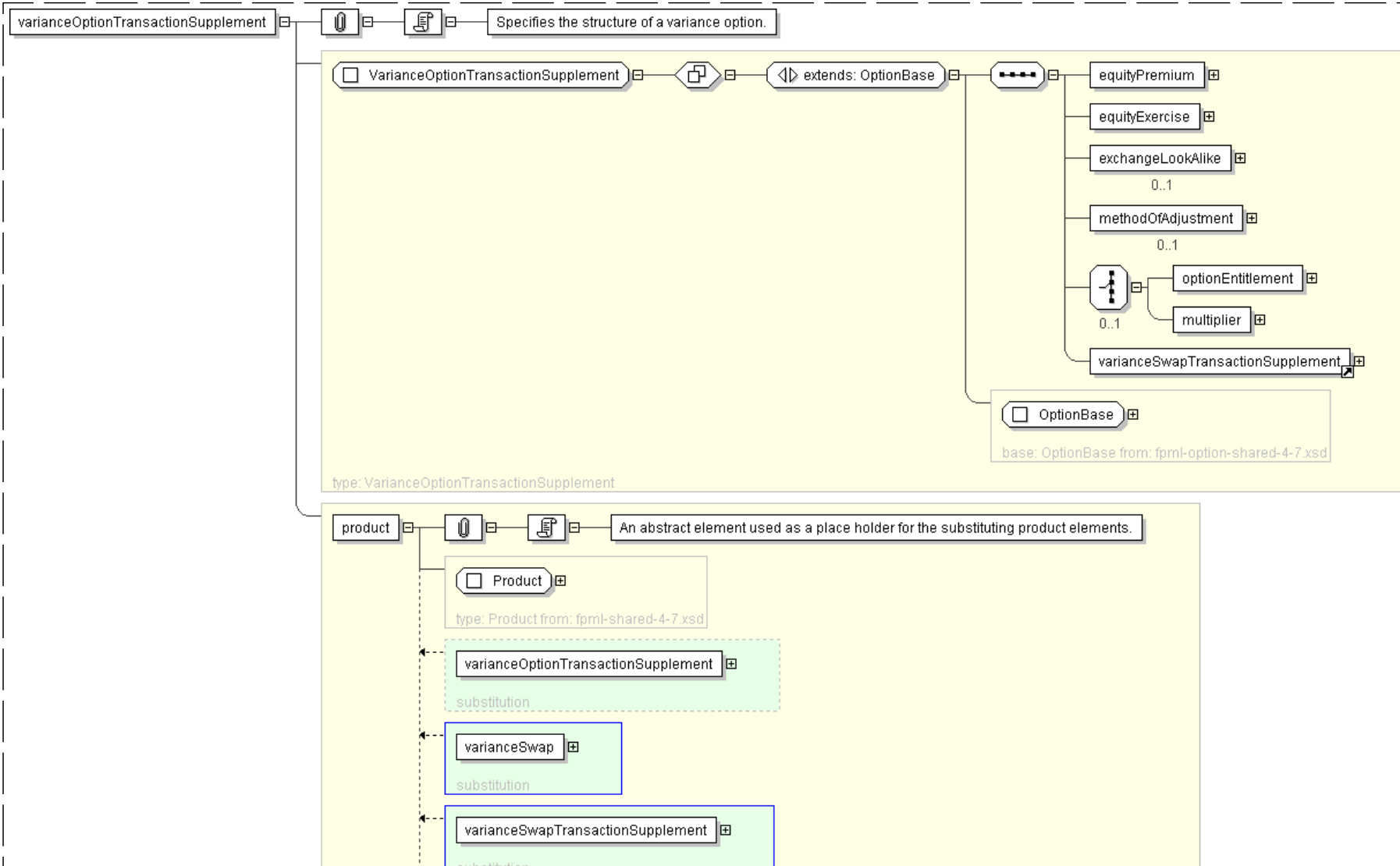
End Choice

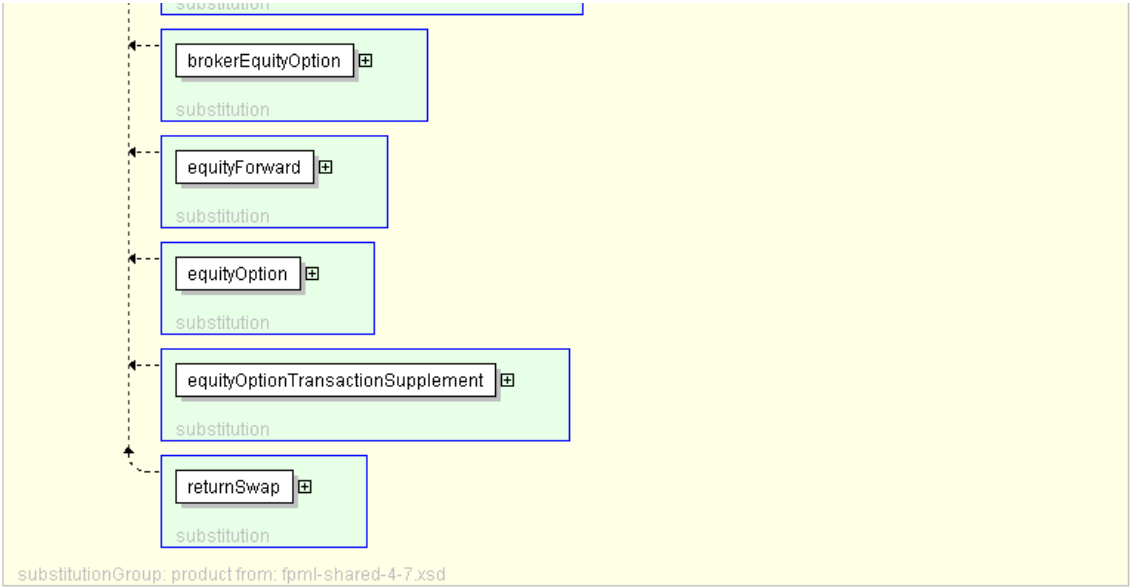
<varianceSwapTransactionSupplement> ... </varianceSwapTransactionSupplement> [1]

*'The variance swap details.'*

</varianceOptionTransactionSupplement>

## Diagram





Schema Component Representation

```
<xsd:element name="varianceOptionTransactionSupplement"
type=" VarianceOptionTransactionSupplement " substitutionGroup="product" />
```

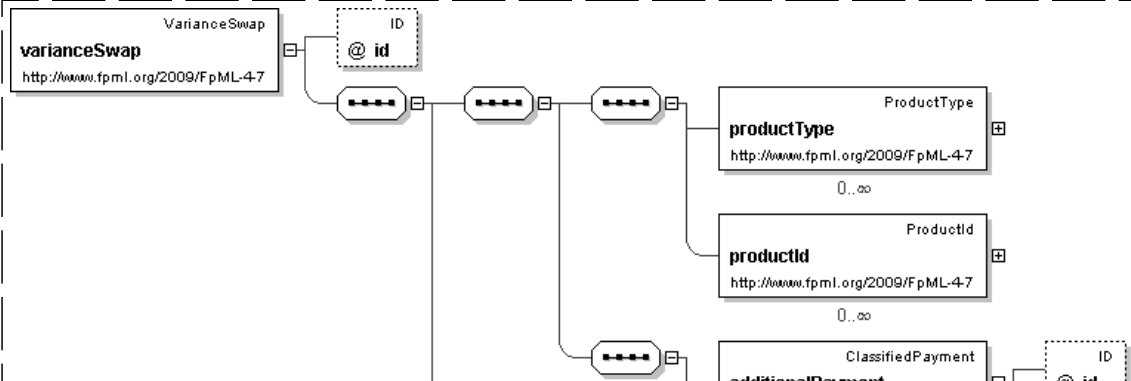
[top](#)

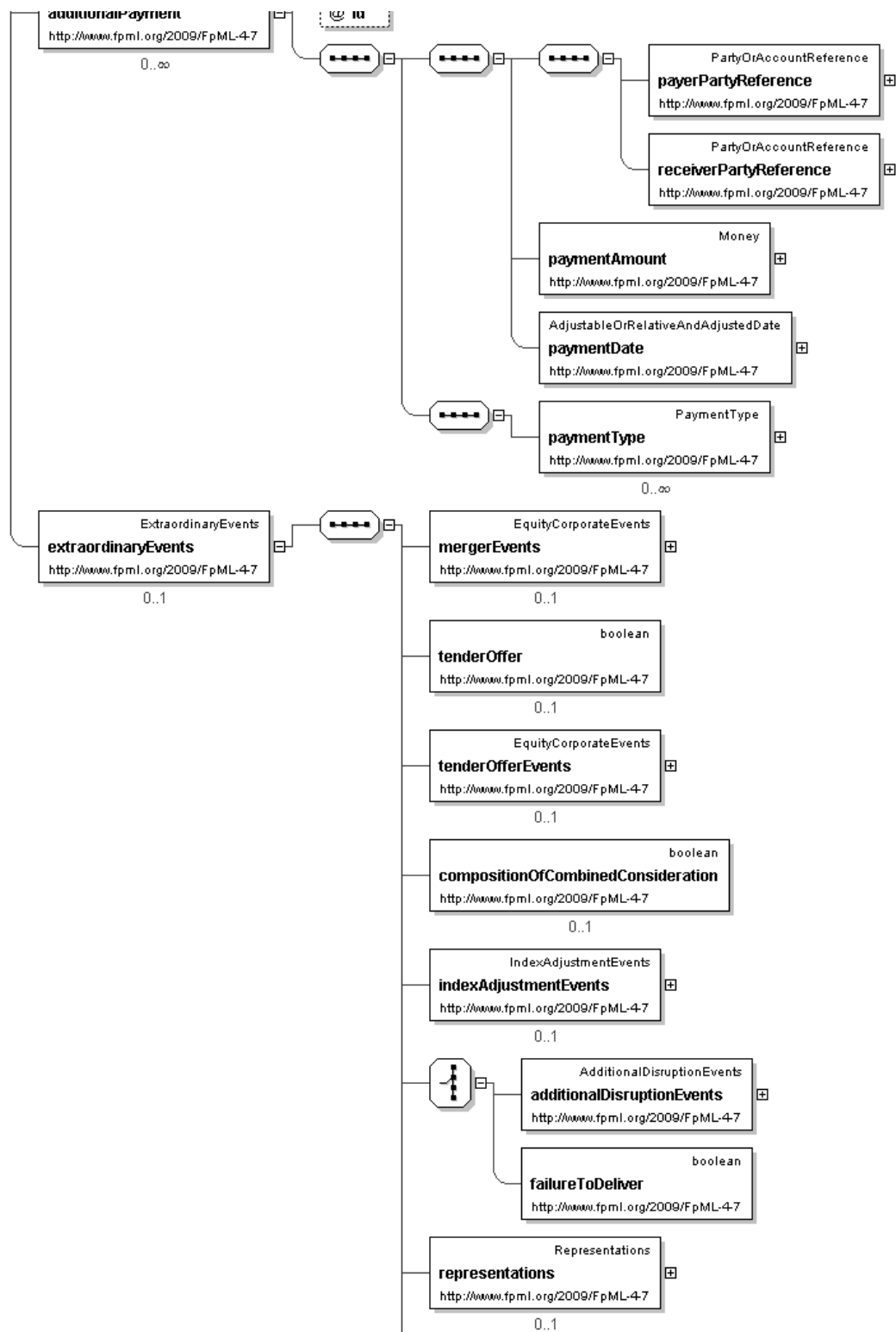
Element: **varianceSwap**

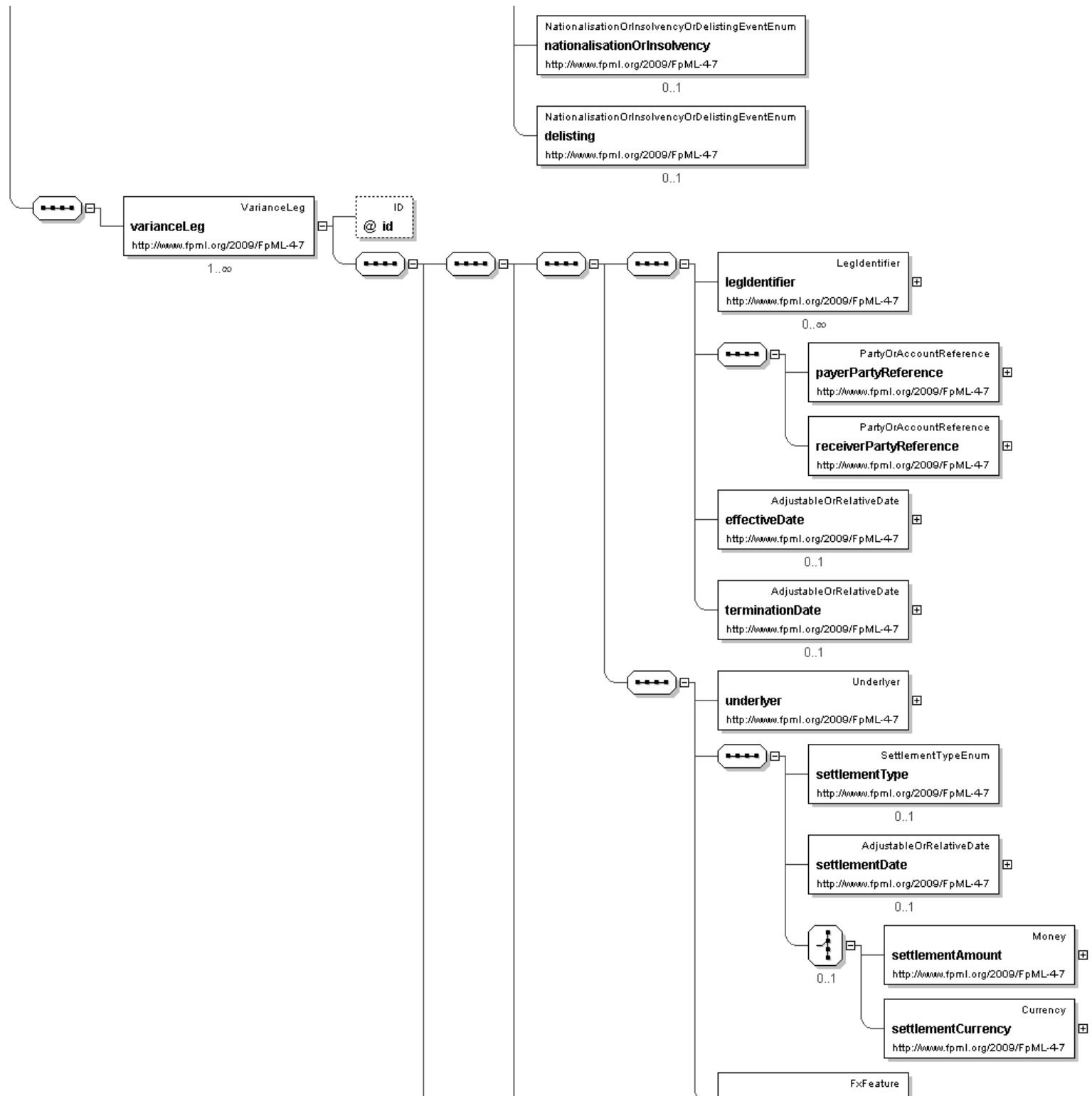
. This element can be used wherever the following element is referenced:  
    ↳ [product](#)

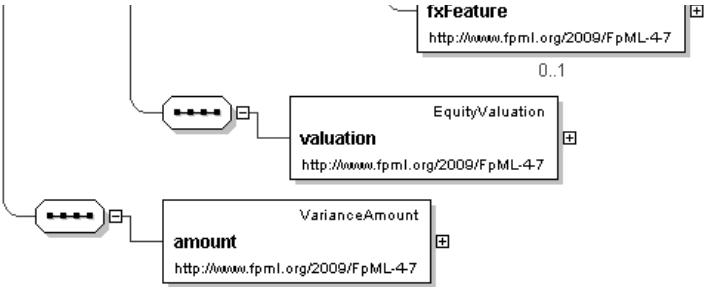
Name	varianceSwap
Type	<a href="#">VarianceSwap</a>
Nilable	no
Abstract	no
Documentation	Specifies the structure of a variance swap.

Logical Diagram









XML Instance Representation

```
<varianceSwap
id="xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <additionalPayment> ClassifiedPayment </additionalPayment> [0..*]
  'Specifies additional payment(s) between the principal parties to the netted swap.'

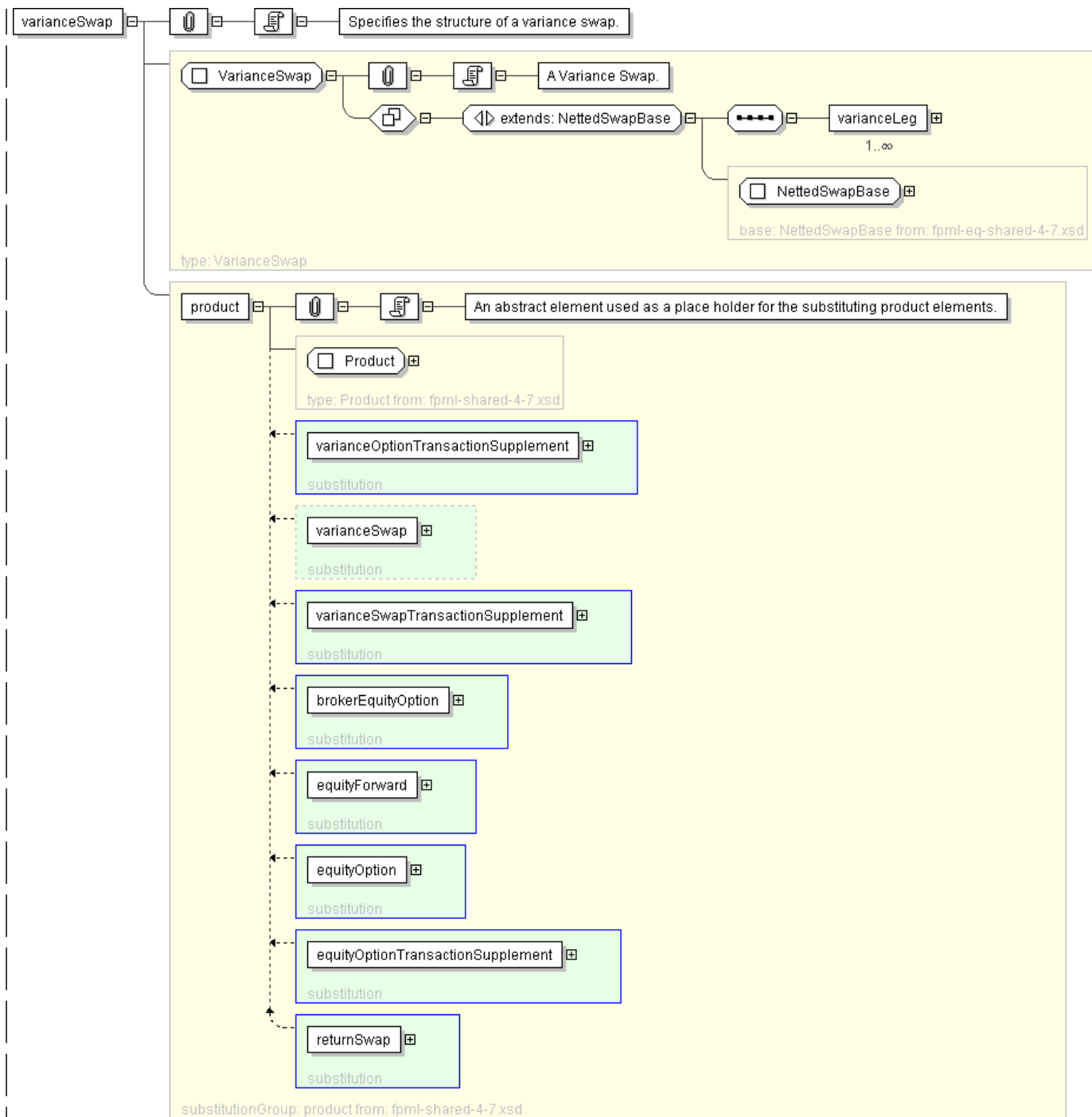
  <extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
  'Where the underlying is shares, specifies events affecting the issuer of those shares that
  may require the terms of the transaction to be adjusted.'

  <varianceLeg> VarianceLeg </varianceLeg> [1..*]
  'Variance Leg.'

</varianceSwap>
```

Diagram





#### Schema Component Representation

```
<xsd:element name="varianceSwap" type="VarianceSwap" substitutionGroup="product"/>
```

Element: **varianceSwapTransactionSupplement**

- . This element can be used wherever the following element is referenced:
  - [product](#)

Name	varianceSwapTransactionSupplement
Used by (from the same schema document)	Complex Type <a href="#">VarianceOptionTransactionSupplement</a>
Type	<a href="#">VarianceSwapTransactionSupplement</a>
Nilable	no
Abstract	no
Documentation	Specifies the structure of a variance swap transaction supplement.

Logical Diagram



XML Instance Representation

```
<varianceSwapTransactionSupplement
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]
  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]
  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <varianceLeg> VarianceLeg </varianceLeg> [1..*]
  'Variance Leg.'

  Start Group: EquityUnderlyerProvisions.model [0..1]
  Start Sequence [0..1]
    <multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]
    'Used for specifying whether additional annex terms for trades with underlyers that are
    listed on multiple exchanges will apply.'

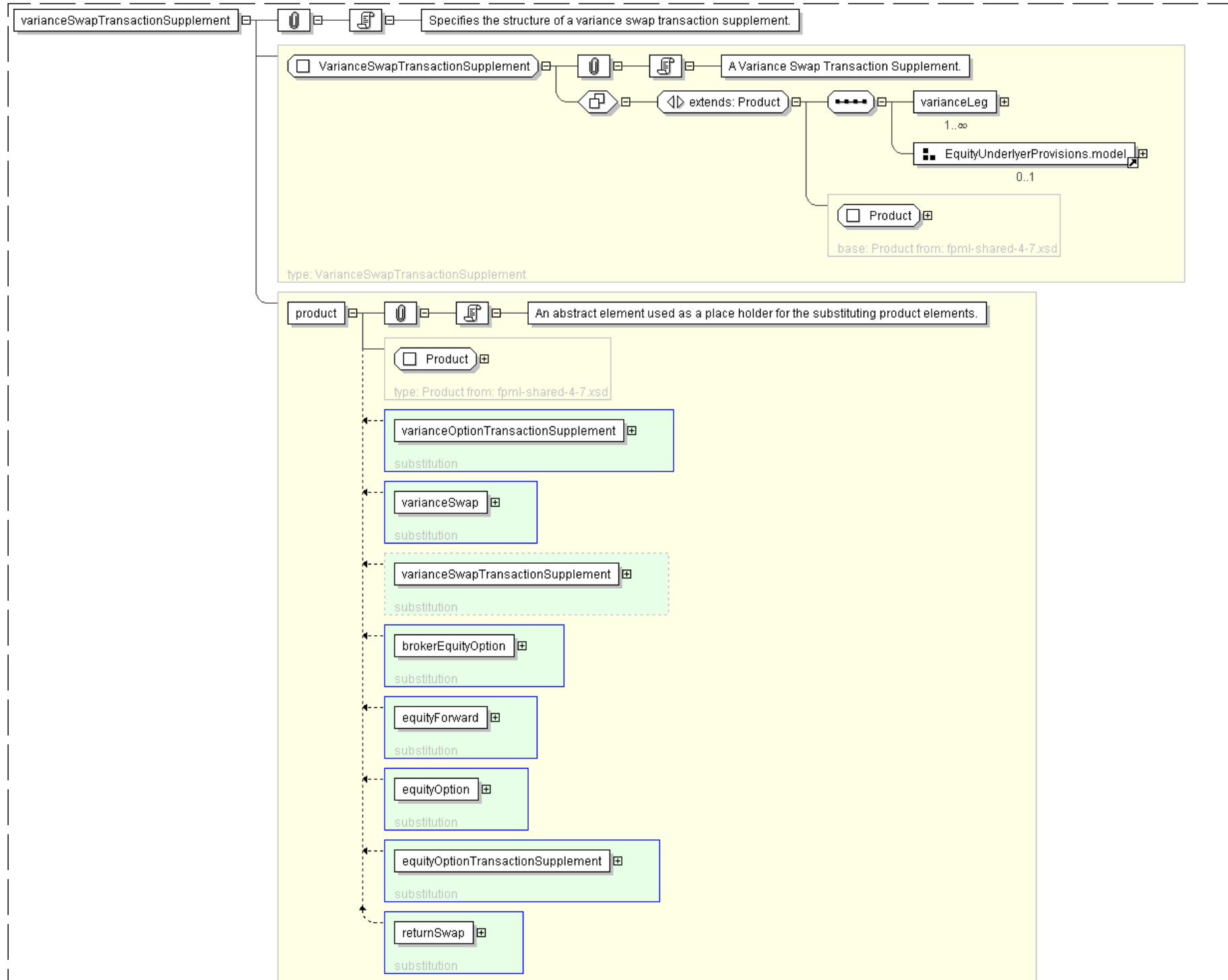
    <multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]
    'Used for specifying additional annex terms for trades with underlyers that are listed
    on multiple exchanges.'

  End Sequence
  <localJurisdiction> Country </localJurisdiction> [0..1]
  'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to
  determine local taxes, which shall mean taxes, duties, and similar charges imposed by
  the taxing authority of the Local Jurisdiction If this element is not present
  Local Jurisdiction is Not Applicable.'

  <relevantJurisdiction> Country </relevantJurisdiction> [0..1]
  'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used
  to determine local taxes, which shall mean taxes, duties and similar charges that would
  be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker
  Dealer assuming the Applicable Hedge Positions are held by its office in the
  Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'

  End Group: EquityUnderlyerProvisions.model
```

```
</varianceSwapTransactionSupplement>
```

**Diagram**

substitutionGroup: product from: fpml-shared-4-7.xsd

Schema Component Representation

```
<xsd:element name="varianceSwapTransactionSupplement" type="
VarianceSwapTransactionSupplement " substitutionGroup="product"/>
```

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Global Definitions

Complex Type: VarianceAmount

Super-types:	<a href="#">CalculatedAmount</a> < <b>VarianceAmount</b> (by extension)
Sub-types:	None

Name	VarianceAmount
Used by (from the same schema document)	Complex Type <a href="#">VarianceLeg</a>
Abstract	no
Documentation	Calculation of a Variance Amount.

XML Instance Representation

```
<...>
<calculationDates> AdjustableRelativeOrPeriodicDates </calculationDates> [0..1]
'Specifies the date on which a calculation or an observation will be performed for the
purpose of calculating the amount.'

<observationStartDate> AdjustableOrRelativeDate </observationStartDate> [0..1]
'The start of the period over which observations are made which are used in the
calculation Used when the observation start date differs from the trade date such as
for forward starting swaps.'

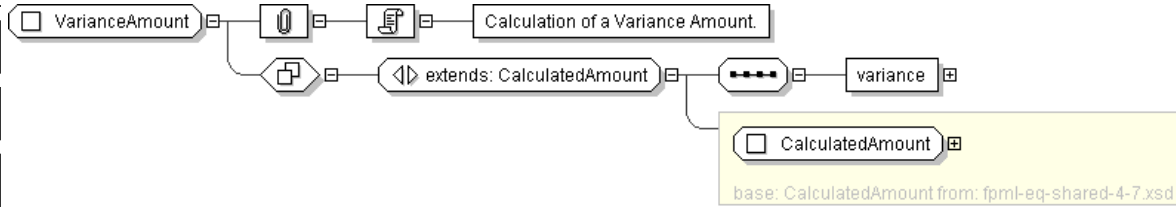
<optionsExchangeDividends> xsd:boolean </optionsExchangeDividends> [0..1]
'If present and true, then options exchange dividends are applicable.'

<additionalDividends> xsd:boolean </additionalDividends> [0..1]
'If present and true, then additional dividends are applicable.'

<allDividends> xsd:boolean </allDividends> [0..1]
'Represents the European Master Confirmation value of \'All Dividends\' which, when
applicable, signifies that, for a given Ex-Date, the daily observed Share Price for that day
is adjusted (reduced) by the cash dividend and/or the cash value of any non cash dividend
per Share (including Extraordinary Dividends) declared by the Issuer.'

<variance> Variance </variance> [1]
'Specifies Variance.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VarianceAmount">
  <xsd:complexContent>
    <xsd:extension base=" CalculatedAmount " >
      <xsd:sequence>
        <xsd:element name="variance" type=" Variance " />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

[top](#)

Complex Type: VarianceLeg

Super-types:	<a href="#">DirectionalLegUnderlyerValuation</a> < <b>VarianceLeg</b> (by extension)
Sub-types:	None

Name	VarianceLeg
Used by (from the same schema document)	Complex Type <a href="#">VarianceSwap</a> , Complex Type <a href="#">VarianceSwapTransactionSupplement</a>
Abstract	no
Documentation	A type describing return which is driven by a Variance Calculation.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <legIdentifier> LegIdentifier </legIdentifier> [0..*]
  'Version aware identification of this leg.'

  <payerPartyReference> PartyOrAccountReference </payerPartyReference> [1]
  'A reference to the party responsible for making the payments defined by this structure.'

  <receiverPartyReference> PartyOrAccountReference </receiverPartyReference> [1]
  'A reference to the party that receives the payments corresponding to this structure.'

  <effectiveDate> AdjustableOrRelativeDate </effectiveDate> [0..1]
  'Specifies the effective date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the effective date of the other leg of the swap.'

  <terminationDate> AdjustableOrRelativeDate </terminationDate> [0..1]
  'Specifies the termination date of this leg of the swap. When defined in relation to a
  date specified somewhere else in the document (through the relativeDate component),
  this element will typically point to the termination date of the other leg of the swap.'

  <underlyer> Underlyer </underlyer> [1]
  'Specifies the underlyer of the leg.'
```

```
<settlementType> SettlementTypeEnum </settlementType> [0..1]
<settlementDate> AdjustableOrRelativeDate </settlementDate> [0..1]
Start Group: SettlementAmountOrCurrency.model [0..1]
Start Choice [1]
  <settlementAmount> Money </settlementAmount> [1]
  'Settlement Amount'

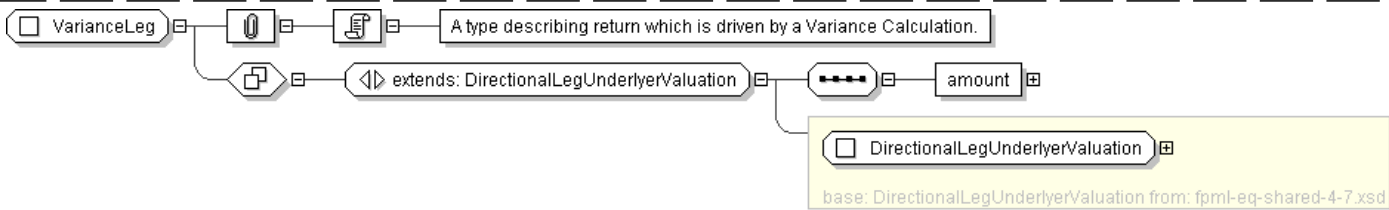
  <settlementCurrency> Currency </settlementCurrency> [1]
  'Settlement Currency for use where the Settlement Amount cannot be known in advance'

End Choice
End Group: SettlementAmountOrCurrency.model
<fxFeature> FxFeature </fxFeature> [0..1]
'Quanto, Composite, or Cross Currency FX features.'

<valuation> EquityValuation </valuation> [1]
'Valuation of the underlying.'

<amount> VarianceAmount </amount> [1]
'Specifies, in relation to each Equity Payment Date, the amount to which the Equity
Payment Date relates. Unless otherwise specified, this term has the meaning defined in the
ISDA 2002 Equity Derivatives Definitions.'
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VarianceLeg">
  <xsd:complexContent>
    <xsd:extension base=" DirectionalLegUnderlierValuation " />
    <xsd:sequence>
      <xsd:element name="amount" type=" VarianceAmount " />
    </xsd:sequence>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

Complex Type: VarianceOptionTransactionSupplement

Super-types:	<a href="#">OptionBase</a> < <b>VarianceOptionTransactionSupplement</b> (by extension)
Sub-types:	None
Name	VarianceOptionTransactionSupplement
Used by (from the same schema document)	Element <a href="#">varianceOptionTransactionSupplement</a>
Abstract	no

## XML Instance Representation

```

<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]

  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]

  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <buyerPartyReference> PartyOrTradeSideReference </buyerPartyReference> [1]

  'A reference to the party that buys this instrument, ie. pays for this instrument and
  receives the rights defined by it. See 2000 ISDA definitions Article 11.1 (b). In the case
  of FRAs this the fixed rate payer.'

  <sellerPartyReference> PartyOrTradeSideReference </sellerPartyReference> [1]

  'A reference to the party that sells ("writes") this instrument, i.e. that grants the
  rights defined by this instrument and in return receives a payment for it. See 2000
  ISDA definitions Article 11.1 (a). In the case of FRAs this is the floating rate payer.'

  <optionType> OptionTypeEnum </optionType> [1]

  'The type of option transaction. From a usage standpoint, put/call is the default option
  type, while payer/receiver indicator is used for options index credit default
  swaps, consistently with the industry practice. Straddle is used for the case of
  straddle strategy, that combine a call and a put with the same strike.'

  <equityPremium> EquityPremium </equityPremium> [1]

  'The variance option premium payable by the buyer to the seller.'

  <equityExercise> EquityExerciseValuationSettlement </equityExercise> [1]

  'The parameters for defining how the equity option can be exercised, how it is valued and
  how it is settled.'

  <exchangeLookAlike> xsd:boolean </exchangeLookAlike> [0..1]

  'For a share option transaction, a flag used to indicate whether the transaction is to
  be treated as an \'exchange look-alike\'. This designation has significance for how
  share adjustments (arising from corporate actions) will be determined for the transaction.
  For an \'exchange look-alike\' transaction the relevant share adjustments will follow that
  for a corresponding designated contract listed on the related exchange (referred to as
  Options Exchange Adjustment (ISDA defined term), otherwise the share adjustments will
  be determined by the calculation agent (referred to as Calculation Agent Adjustment
  (ISDA defined term)).'

  <methodOfAdjustment> MethodOfAdjustmentEnum </methodOfAdjustment> [0..1]

  'Defines how adjustments will be made to the contract should one or more of the
  extraordinary events occur.'

Start Choice [0..1]
  <optionEntitlement> PositiveDecimal </optionEntitlement> [1]

  'The number of shares per option comprised in the option transaction supplement.'

  <multiplier> PositiveDecimal </multiplier> [1]

  'Specifies the contract multiplier that can be associated with an index option.'

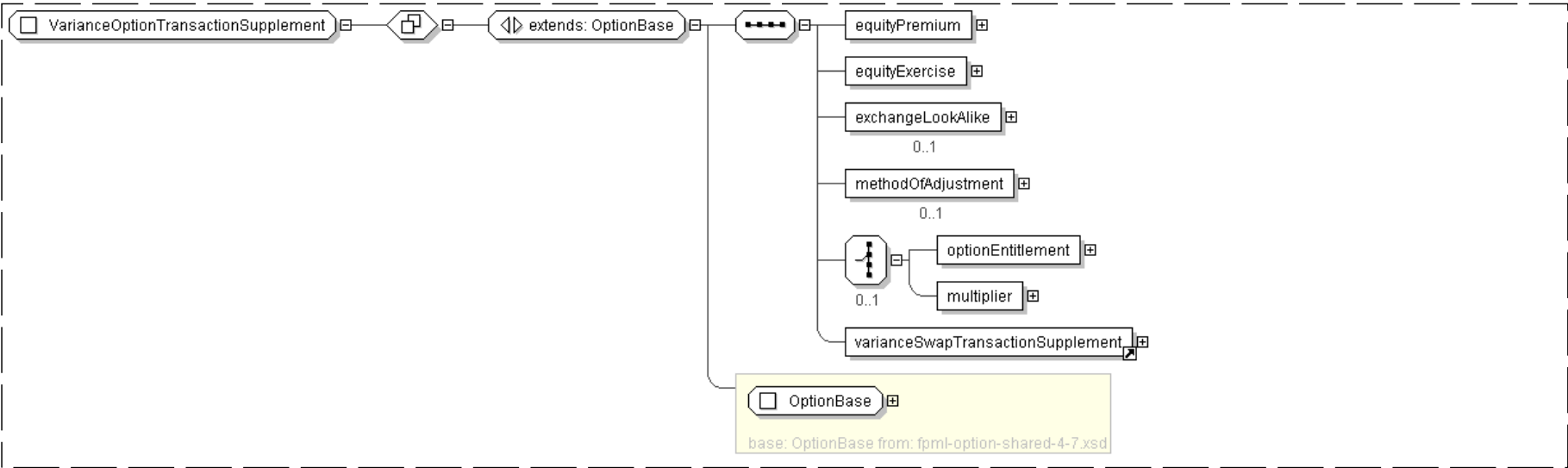
End Choice
  <varianceSwapTransactionSupplement> ... </varianceSwapTransactionSupplement> [1]

  'The variance swap details.'

```

</...>

Diagram



Schema Component Representation

```
<xsd:complexType name="VarianceOptionTransactionSupplement">
  <xsd:complexContent>
    <xsd:extension base="OptionBase">
      <xsd:sequence>
        <xsd:element name="equityPremium" type="EquityPremium"/>
        <xsd:element name="equityExercise" type="EquityExerciseValuationSettlement"/>
        <xsd:element name="exchangeLookAlike" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="methodOfAdjustment" type="MethodOfAdjustmentEnum" minOccurs="0"/>
        <xsd:choice minOccurs="0">
          <xsd:element name="optionEntitlement" type="PositiveDecimal"/>
          <xsd:element name="multiplier" type="PositiveDecimal"/>
        </xsd:choice>
        <xsd:element ref="varianceSwapTransactionSupplement"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

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Complex Type: VarianceSwap

Super-types:	<a href="#">NettedSwapBase</a> < <b>VarianceSwap</b> (by extension)
Sub-types:	None
Name	VarianceSwap
Used by (from the same schema document)	Element <a href="#">varianceSwap</a>
Abstract	no
Documentation	A Variance Swap.

XML Instance Representation

<...>



```

'id=" xsd:ID [0..1]">
<productType> ProductType </productType> [0..*]
'A classification of the type of product. FpML defines a simple product categorization using
a coding scheme.'

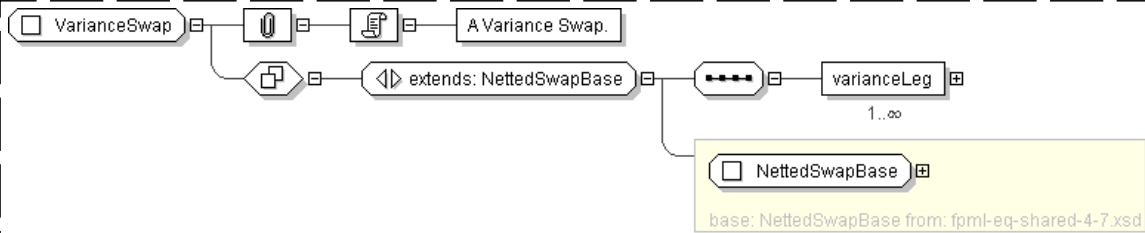
<productId> ProductId </productId> [0..*]
'A product reference identifier allocated by a party. FpML does not define the domain
values associated with this element. Note that the domain values for this element are
not strictly an enumerated list.'

<additionalPayment> ClassifiedPayment </additionalPayment> [0..*]
'Specifies additional payment(s) between the principal parties to the netted swap.'

<extraordinaryEvents> ExtraordinaryEvents </extraordinaryEvents> [0..1]
'Where the underlying is shares, specifies events affecting the issuer of those shares that
may require the terms of the transaction to be adjusted.'

<varianceLeg> VarianceLeg </varianceLeg> [1..*]
'Variance Leg.'
```

Diagram



Schema Component Representation

```

<xsd:complexType name="VarianceSwap">
  <xsd:complexContent>
    <xsd:extension base=" NettedSwapBase " >
      <xsd:sequence>
        <xsd:element name="varianceLeg" type=" VarianceLeg " maxOccurs="unbounded" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

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Complex Type: **VarianceSwapTransactionSupplement**

Super-types:	<a href="#">Product</a> < <b>VarianceSwapTransactionSupplement</b> (by extension)
Sub-types:	None
Name	VarianceSwapTransactionSupplement
Used by (from the same schema document)	Element <a href="#">varianceSwapTransactionSupplement</a>
Abstract	no
Documentation	A Variance Swap Transaction Supplement.

XML Instance Representation

```
<...
id=" xsd:ID [0..1]">
  <productType> ProductType </productType> [0..*]

  'A classification of the type of product. FpML defines a simple product categorization using
  a coding scheme.'

  <productId> ProductId </productId> [0..*]

  'A product reference identifier allocated by a party. FpML does not define the domain
  values associated with this element. Note that the domain values for this element are
  not strictly an enumerated list.'

  <varianceLeg> VarianceLeg </varianceLeg> [1..*]

  'Variance Leg.'

Start Group: EquityUnderlyerProvisions.model [0..1]
Start Sequence [0..1]

  <multipleExchangeIndexAnnexFallback> xsd:boolean </multipleExchangeIndexAnnexFallback> [1]

  'Used for specifying whether additional annex terms for trades with underlyers that are
  listed on multiple exchanges will apply.'

  <multipleExchangeAnnex> MultipleExchangeAnnex </multipleExchangeAnnex> [0..1]

  'Used for specifying additional annex terms for trades with underlyers that are listed
  on multiple exchanges.'

End Sequence

  <localJurisdiction> Country </localJurisdiction> [0..1]

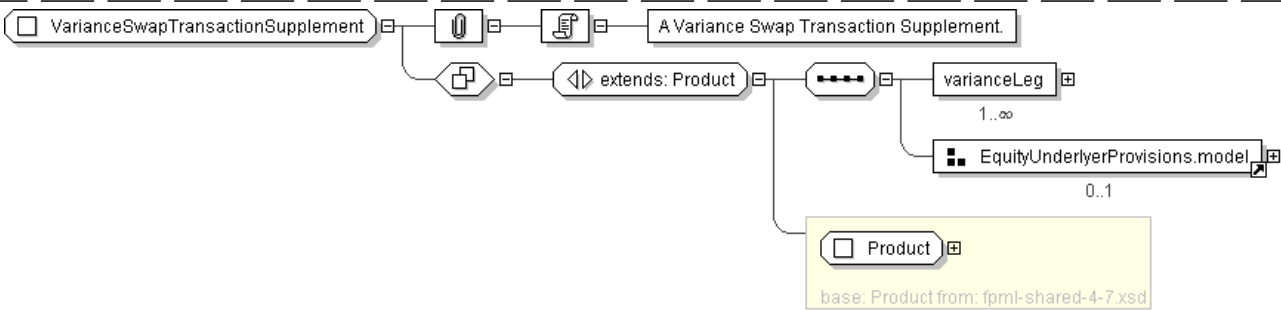
  'Local Jurisdiction is a term used in the AEJ Master Confirmation, which is used to
  determine local taxes, which shall mean taxes, duties, and similar charges imposed by
  the taxing authority of the Local Jurisdiction If this element is not present
  Local Jurisdiction is Not Applicable.'

  <relevantJurisdiction> Country </relevantJurisdiction> [0..1]

  'Relevant Jurisdiction is a term used in the AEJ Master Confirmation, which is used
  to determine local taxes, which shall mean taxes, duties and similar charges that would
  be imposed by the taxing authority of the Country of Underlyer on a Hypothetical Broker
  Dealer assuming the Applicable Hedge Positions are held by its office in the
  Relevant Jurisdiction. If this element is not present Relevant Jurisdiction is Not Applicable.'

End Group: EquityUnderlyerProvisions.model
</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VarianceSwapTransactionSupplement">
  <xsd:complexContent>
    <xsd:extension base=" Product " />
  </xsd:complexContent>
</xsd:complexType>
```

```
<xsd:sequence>
  <xsd:element name="varianceLeg" type=" VarianceLeg " maxOccurs="unbounded" />
  <xsd:group ref=" EquityUnderlyerProvisions.model " minOccurs="0" />
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
```

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Legend

**Complex Type:**                      **AusAddress**  
Schema Component Type                      Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	• <a href="#">QLDAddress</a> (by restriction)

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

Schema Component Representation

```
<complexType name="AusAddress">
<complexContent>
<extension base=" Address " >
<sequence>
<element name="state" type=" AusStates "/>
<element name="postcode">
<simpleType>
<restriction base=" string ">
<pattern value="[1-9][0-9]{3}" />
</restriction>
</simpleType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
```

```
</restriction>
</simpleType>
</element>
</sequence>
<attribute name="country" type=" string " fixed="Australia" />
</extension>
</complexContent>
</complexType>
```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an `xsi:type` attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](#) or [Uniqueness Constraint](#). See: [http://www.w3.org/TR/xmlschema-1/#clidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#clidentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

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Generated by <oxygen/> XML Editor using a modified version of [xs3p](#) that adds schema diagrams and chunking support.

# XML Schema Documentation

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## Schema Document Properties

Target Namespace	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>
Version	0.1
Element and Attribute Namespaces	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>

## Declared Namespaces

Prefix	Namespace
Default namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
ds	<a href="http://www.w3.org/2000/09/xmldsig#">http://www.w3.org/2000/09/xmldsig#</a>

### Schema Component Representation

```
<schema targetNamespace="http://www.w3.org/2000/09/xmldsig#"
elementFormDefault="qualified" version="0.1">
```

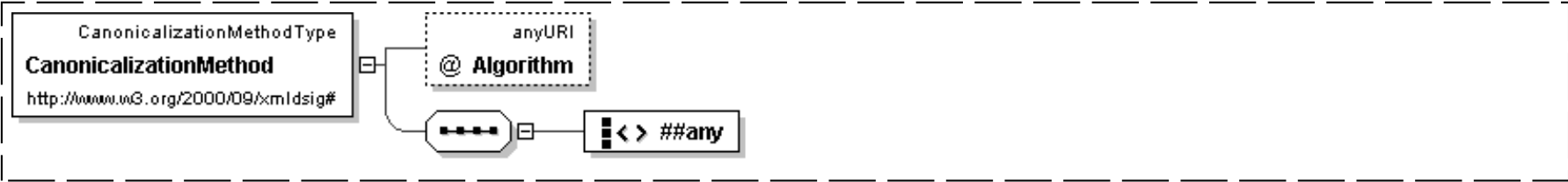
...  
</schema>

## Global Declarations

### Element: CanonicalizationMethod

Name	CanonicalizationMethod
Type	<a href="#">ds:CanonicalizationMethodType</a>
Nilable	no
Abstract	no

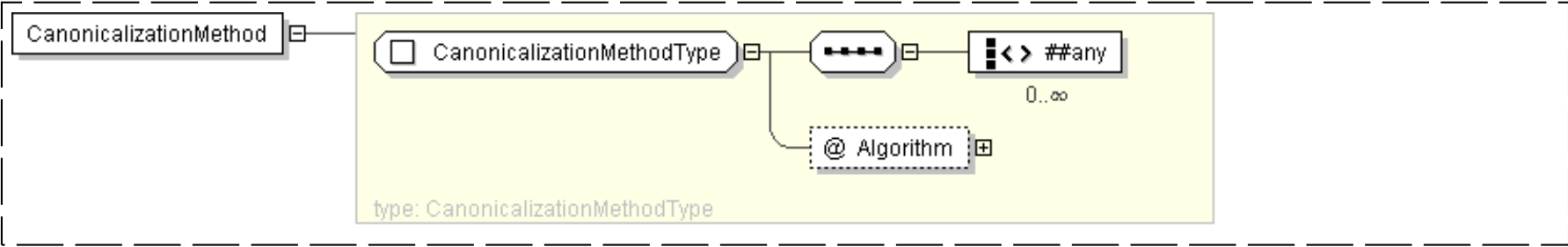
#### Logical Diagram



#### XML Instance Representation

```
<ds:CanonicalizationMethod
Algorithm="anyURI [1]">
  <!-- Mixed content -->
  Allow any elements from any namespace (strict validation). [0..*]
</ds:CanonicalizationMethod>
```

#### Diagram



#### Schema Component Representation



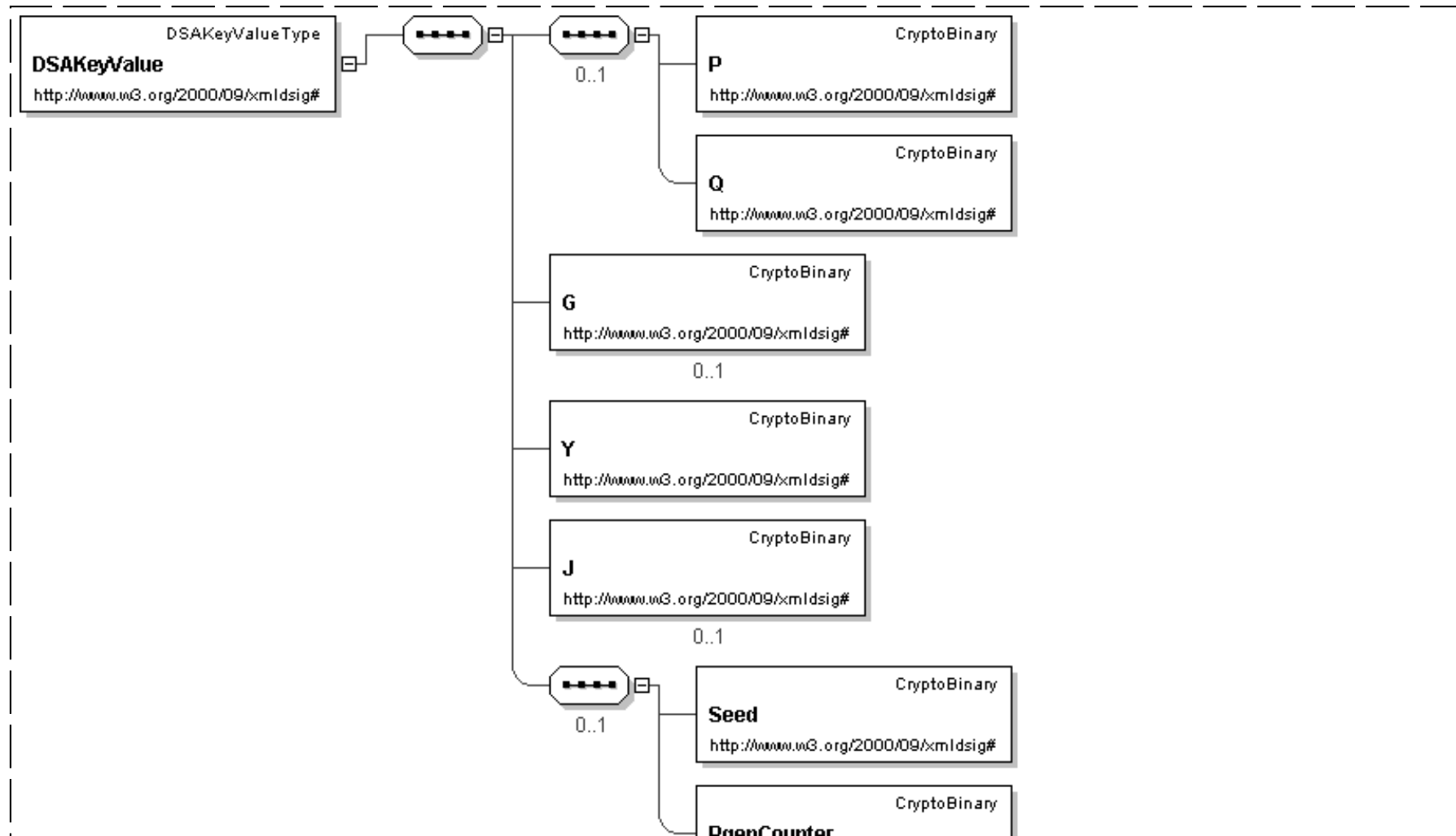
```
<element name="CanonicalizationMethod" type=" ds:CanonicalizationMethodType "/>
```

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## Element: **DSAKeyValue**

<b>Name</b>	DSAKeyValue
<b>Type</b>	<a href="#">ds:DSAKeyValue</a>
<b>Nullable</b>	no
<b>Abstract</b>	no

### Logical Diagram



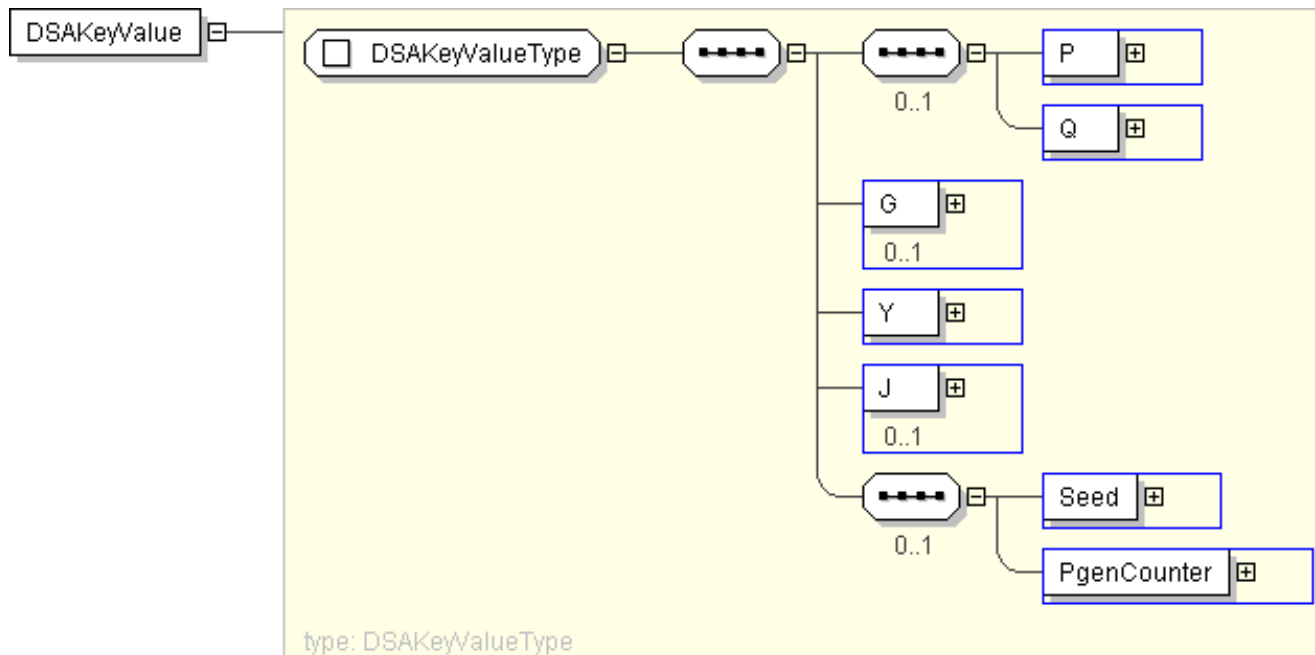
## XML Instance Representation

```

<ds:DSAKeyValue>
  Start Sequence [0..1]
    <ds:P> ds:CryptoBinary </ds:P> [1]
    <ds:Q> ds:CryptoBinary </ds:Q> [1]
  End Sequence
  <ds:G> ds:CryptoBinary </ds:G> [0..1]
  <ds:Y> ds:CryptoBinary </ds:Y> [1]
  <ds:J> ds:CryptoBinary </ds:J> [0..1]
  Start Sequence [0..1]
    <ds:Seed> ds:CryptoBinary </ds:Seed> [1]
    <ds:PgenCounter> ds:CryptoBinary </ds:PgenCounter> [1]
  End Sequence
</ds:DSAKeyValue>

```

## Diagram



## Schema Component Representation

```
<element name="DSAKeyValue" type="ds:DSAKeyValueType" />
```

Element: **DigestMethod**

Name	DigestMethod
Type	<a href="#">ds:DigestMethodType</a>
Nilable	no
Abstract	no

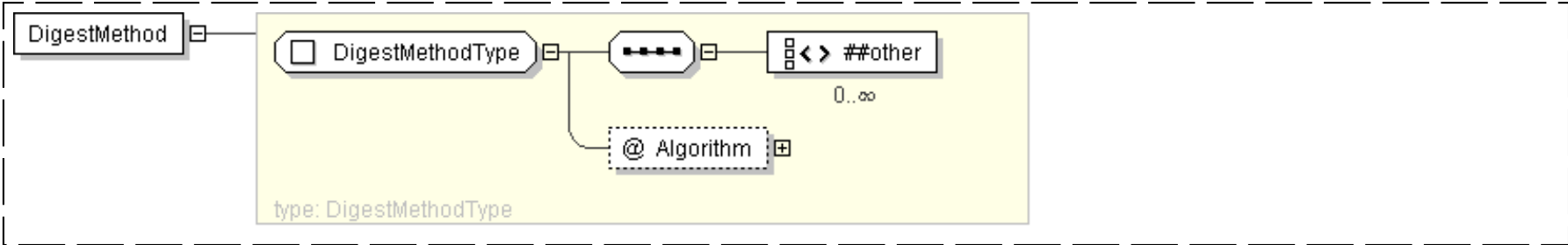
Logical Diagram



XML Instance Representation

```
<ds:DigestMethod
  Algorithm="anyURI [1]">
  <!-- Mixed content -->
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</ds:DigestMethod>
```

Diagram



Schema Component Representation

```
<element name="DigestMethod" type=" ds:DigestMethodType " />
```

Element: DigestValue

Name	DigestValue
Type	<a href="#">ds:DigestValueType</a>
Nilable	no
Abstract	no

Logical Diagram



XML Instance Representation

```
<ds:DigestValue> ds:DigestValueType </ds:DigestValue>
```

Diagram



Schema Component Representation

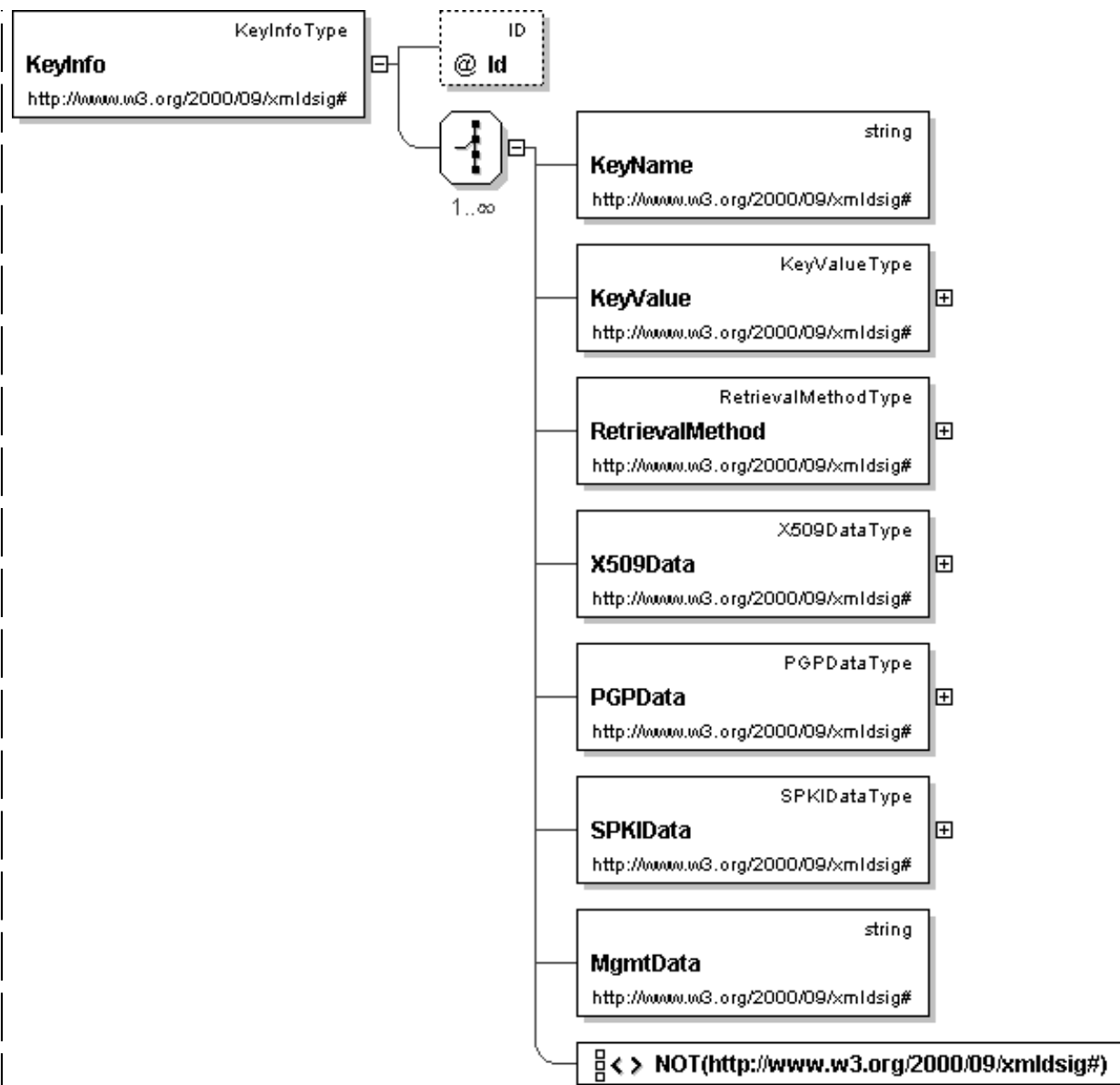
```
<element name="DigestValue" type=" ds:DigestValueType "/>
```

[top](#)

Element: KeyInfo

Name	KeyInfo
Type	<a href="#">ds:KeyInfoType</a>
Nilable	no
Abstract	no

Logical Diagram



### XML Instance Representation

```
<ds:KeyInfo
  Id="ID [0..1]">
  <!-- Mixed content -->
  Start Choice [1..*]
    <ds:KeyName> ... </ds:KeyName> [1]
    <ds:KeyValue> ... </ds:KeyValue> [1]
```

```

<ds:RetrievalMethod> ... </ds:RetrievalMethod> [1]
<ds:X509Data> ... </ds:X509Data> [1]
<ds:PGPData> ... </ds:PGPData> [1]
<ds:SPKIDData> ... </ds:SPKIDData> [1]
<ds:MgmtData> ... </ds:MgmtData> [1]

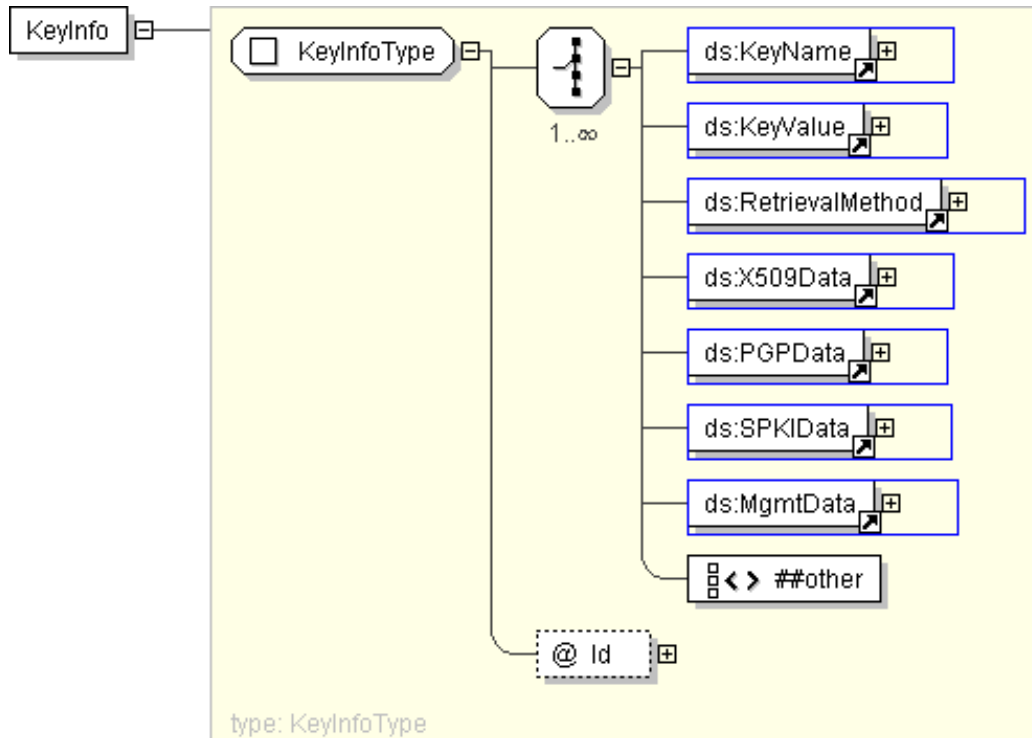
```

*Allow any elements from a namespace other than this schema's namespace (lax validation). [1]*

End Choice

```
</ds:KeyInfo>
```

## Diagram



## Schema Component Representation

```
<element name="KeyInfo" type=" ds:KeyInfoType " />
```

[top](#)

## Element: KeyName

Name	KeyName
------	---------

Type	string
Nilable	no
Abstract	no

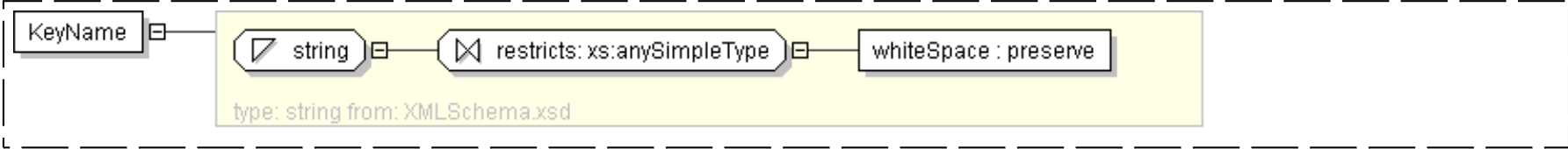
Logical Diagram



XML Instance Representation

```
<ds:KeyName> string </ds:KeyName>
```

Diagram



Schema Component Representation

```
<element name="KeyName" type=" string " />
```

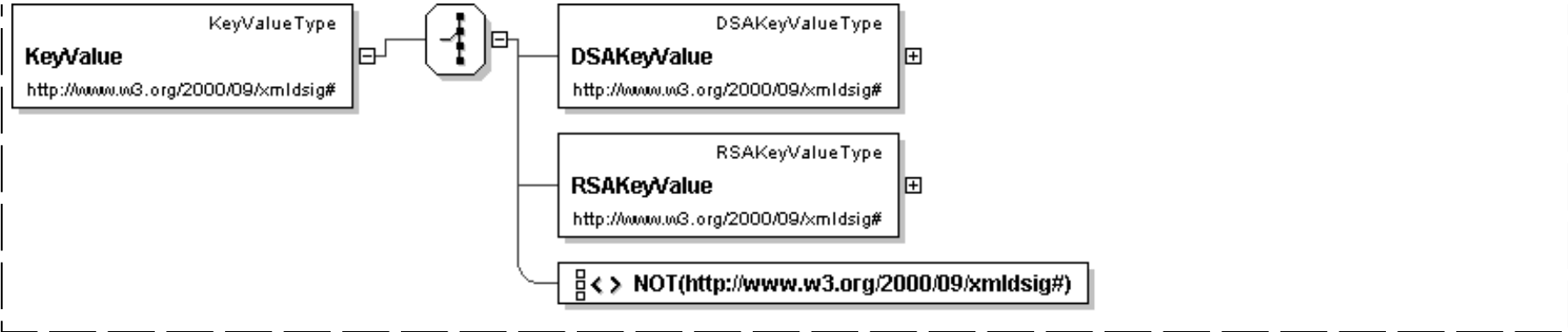
[top](#)

Element: **KeyValue**

Name	KeyValue
Type	<a href="#">ds:KeyValue</a> <a href="#">Type</a>
Nilable	no
Abstract	no

Logical Diagram

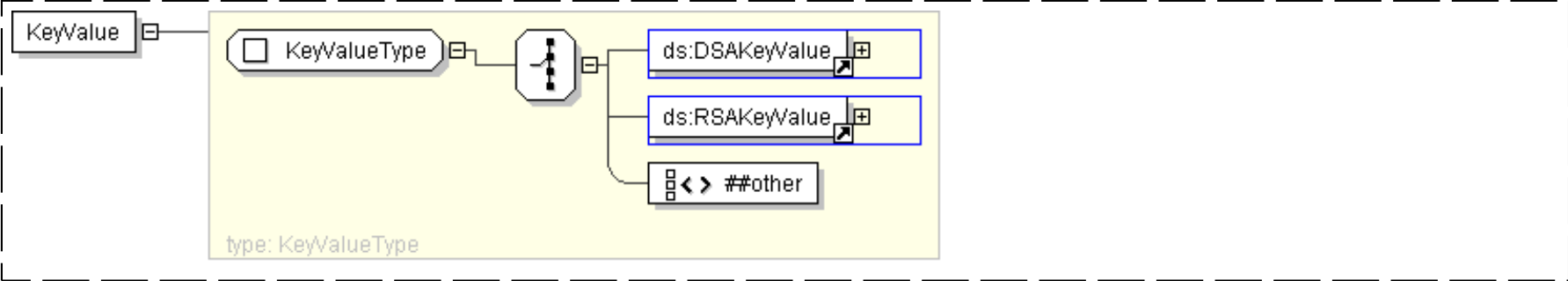




XML Instance Representation

```
<ds:KeyValue>
<!-- Mixed content -->
Start Choice [1]
  <ds:DSASignKeyValue> ... </ds:DSASignKeyValue> [1]
  <ds:RSASignKeyValue> ... </ds:RSASignKeyValue> [1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
End Choice
</ds:KeyValue>
```

Diagram



Schema Component Representation

```
<element name="KeyValue" type=" ds:KeyValueType " />
```

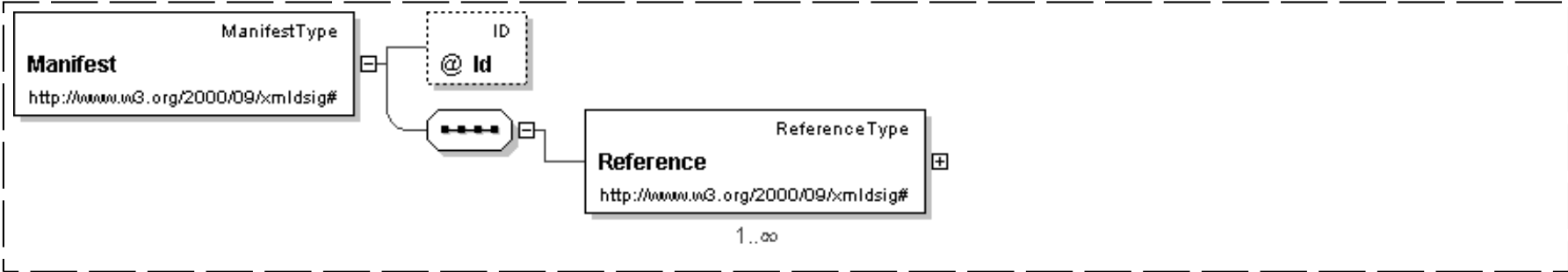
Element: Manifest

Name	Manifest
------	----------



Type	<a href="#">ds:ManifestType</a>
Nilable	no
Abstract	no

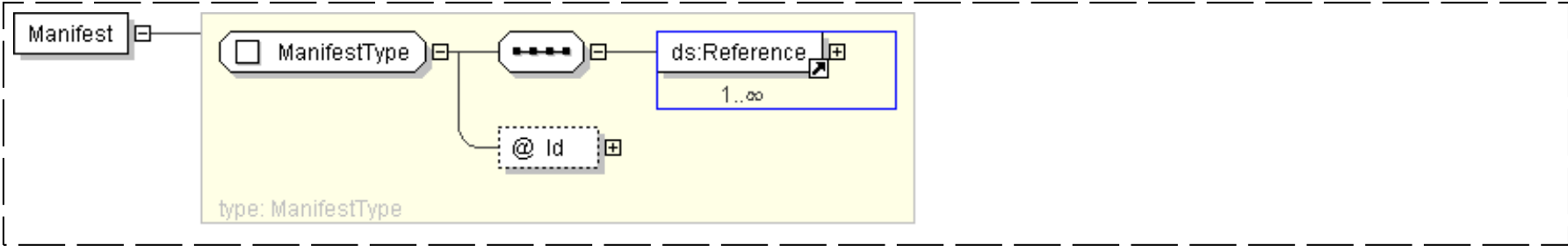
Logical Diagram



XML Instance Representation

```
<ds:Manifest
  Id="ID [0..1]">
  <ds:Reference> ... </ds:Reference> [1..*]
</ds:Manifest>
```

Diagram



Schema Component Representation

```
<element name="Manifest" type=" ds:ManifestType " />
```

[top](#)

Element: **MgmtData**

Name	MgmtData
Type	string

<b><u>Nilable</u></b>	no
<b><u>Abstract</u></b>	no

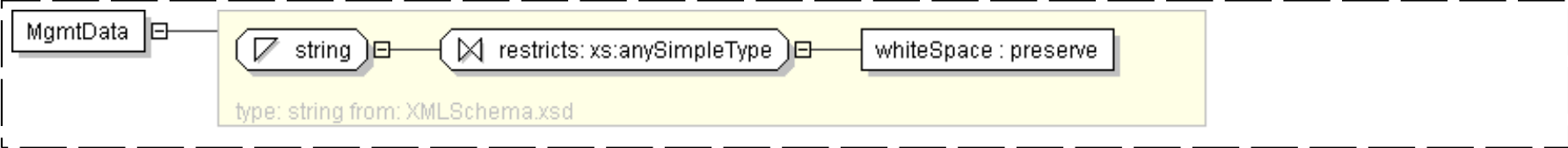
Logical Diagram



XML Instance Representation

```
<ds:MgmtData> string </ds:MgmtData>
```

Diagram



Schema Component Representation

```
<element name="MgmtData" type=" string " />
```

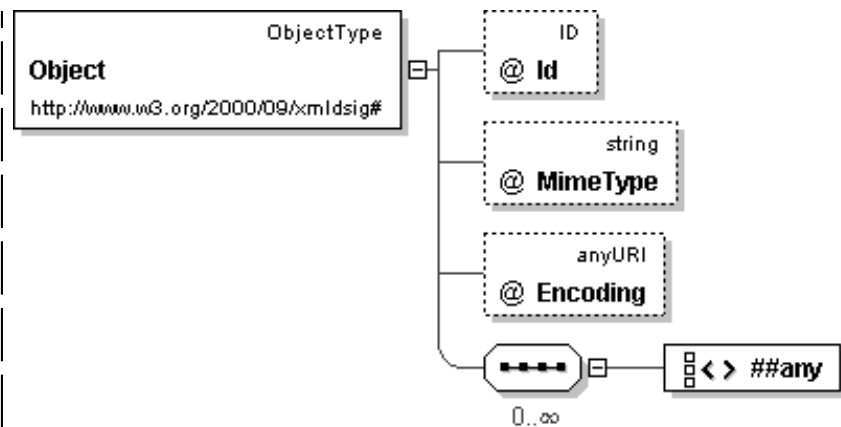
[top](#)

Element: **Object**

<b>Name</b>	Object
<b>Type</b>	<a href="#">ds:ObjectType</a>
<b>Nilable</b>	no
<b>Abstract</b>	no

Logical Diagram

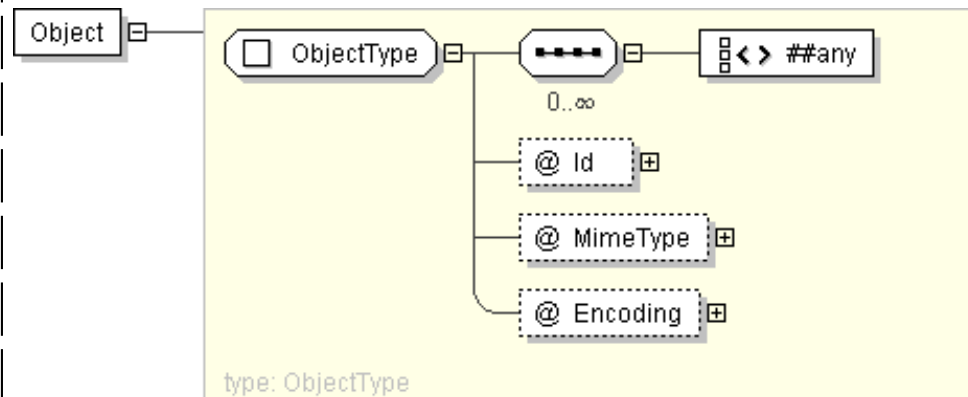




### XML Instance Representation

```
<ds:Object
  Id="ID [0..1]"
  MimeType="string [0..1]"
  Encoding="anyURI [0..1]">
  <!-- Mixed content -->
  Start Sequence [0..*]
    Allow any elements from any namespace (lax validation). [1]
  End Sequence
</ds:Object>
```

### Diagram

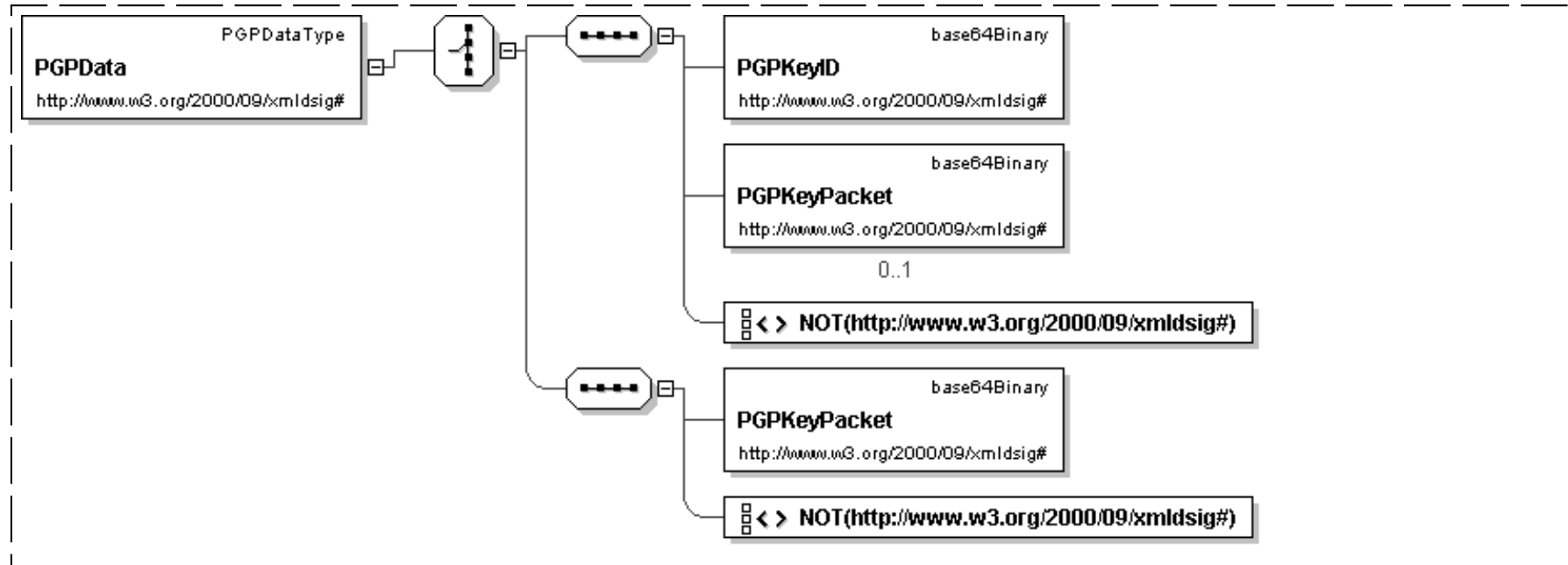


### Schema Component Representation

```
<element name="Object" type="ds:ObjectType"/>
```

**Element: PGPDData**

<b>Name</b>	PGPDData
<b>Type</b>	<a href="#">ds:PGPDataType</a>
<b>Nilable</b>	no
<b>Abstract</b>	no

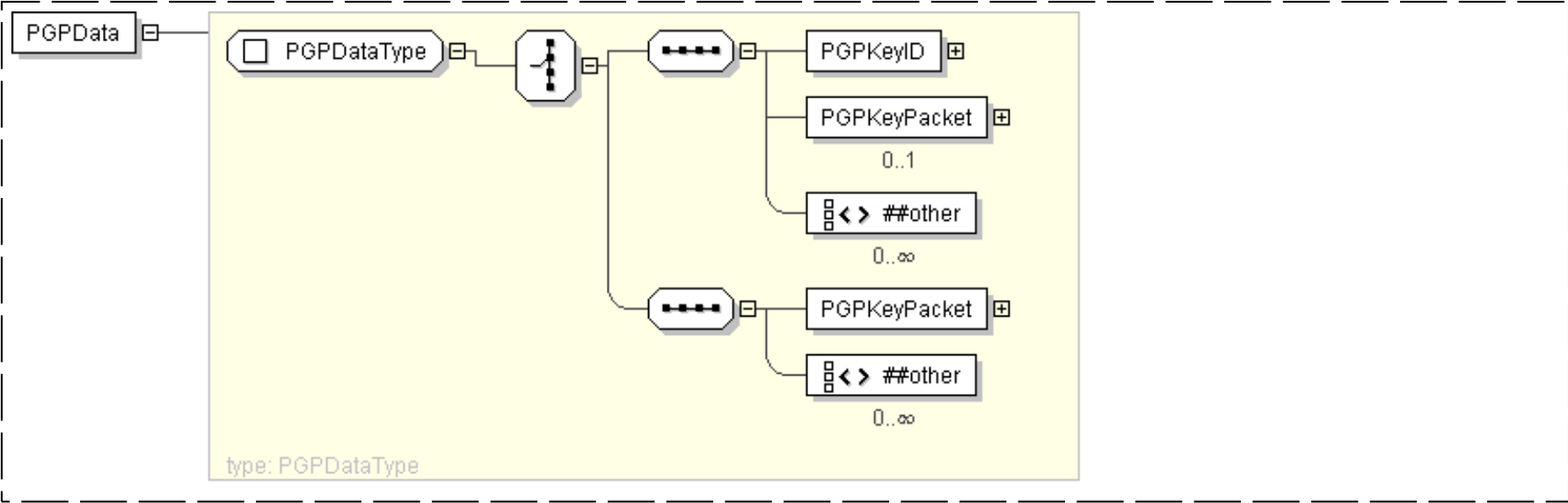
**Logical Diagram****XML Instance Representation**

```

<ds:PGPDData>
  Start Choice [1]
    <ds:PGPKeyID> base64Binary </ds:PGPKeyID> [1]
    <ds:PGPKeyPacket> base64Binary </ds:PGPKeyPacket> [0..1]
    Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
    <ds:PGPKeyPacket> base64Binary </ds:PGPKeyPacket> [1]
    Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
  End Choice
</ds:PGPDData>

```

Diagram



Schema Component Representation

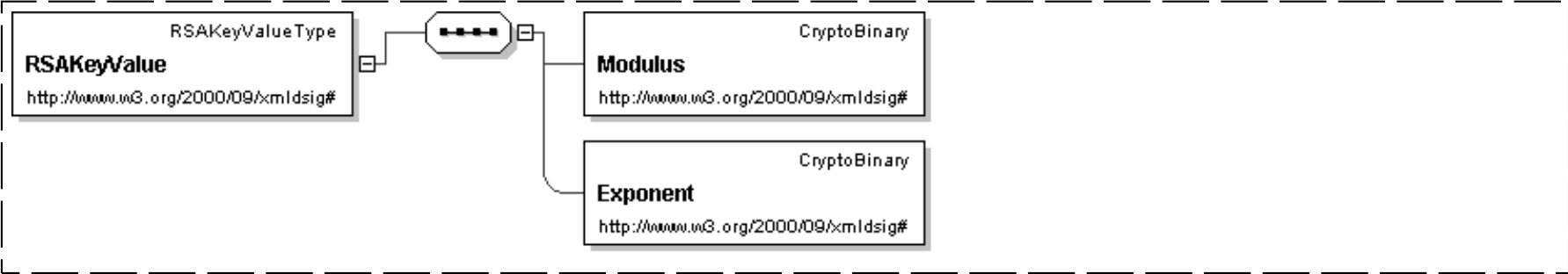
```
<element name="PGPDData" type="ds:PGPDDataType" />
```

[top](#)

Element: RSAKeyValue

Name	RSAKeyValue
Type	<a href="#">ds:RSAKeyValue</a>
Nilable	no
Abstract	no

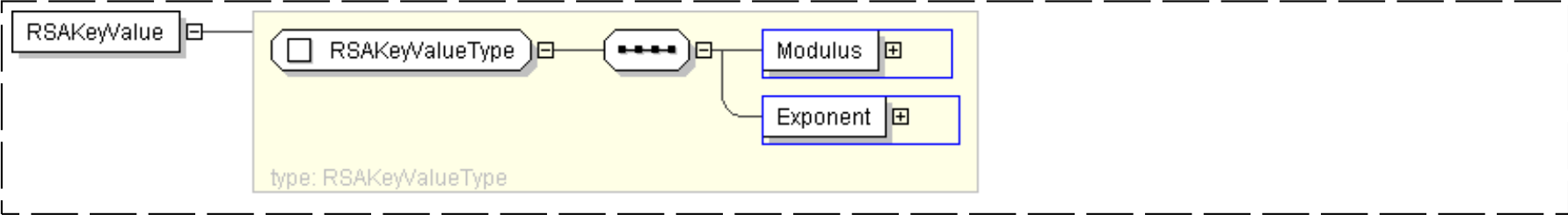
Logical Diagram



XML Instance Representation

```
<ds:RSAKeyValue>
  <ds:Modulus> ds:CryptoBinary </ds:Modulus> [1]
  <ds:Exponent> ds:CryptoBinary </ds:Exponent> [1]
</ds:RSAKeyValue>
```

Diagram



Schema Component Representation

```
<element name="RSAKeyValue" type=" ds:RSAKeyValueType " />
```

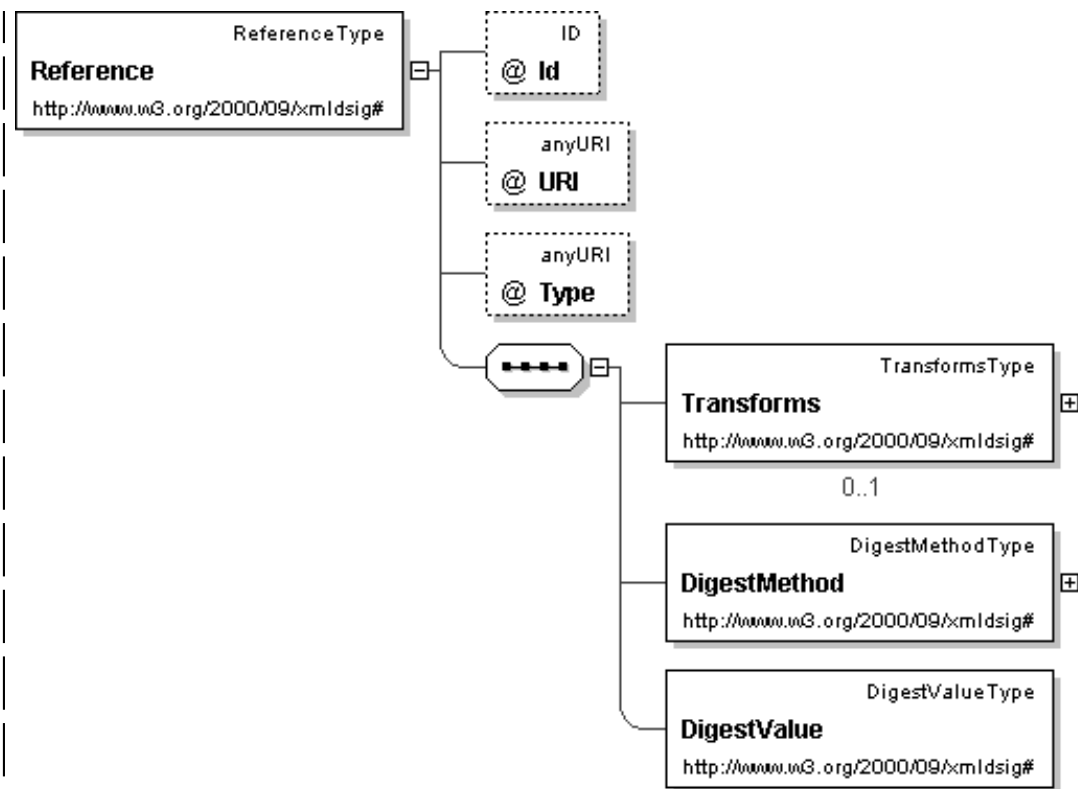
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Element: Reference

Name	Reference
Type	<a href="#">ds:ReferenceType</a>
Nilable	no
Abstract	no

Logical Diagram

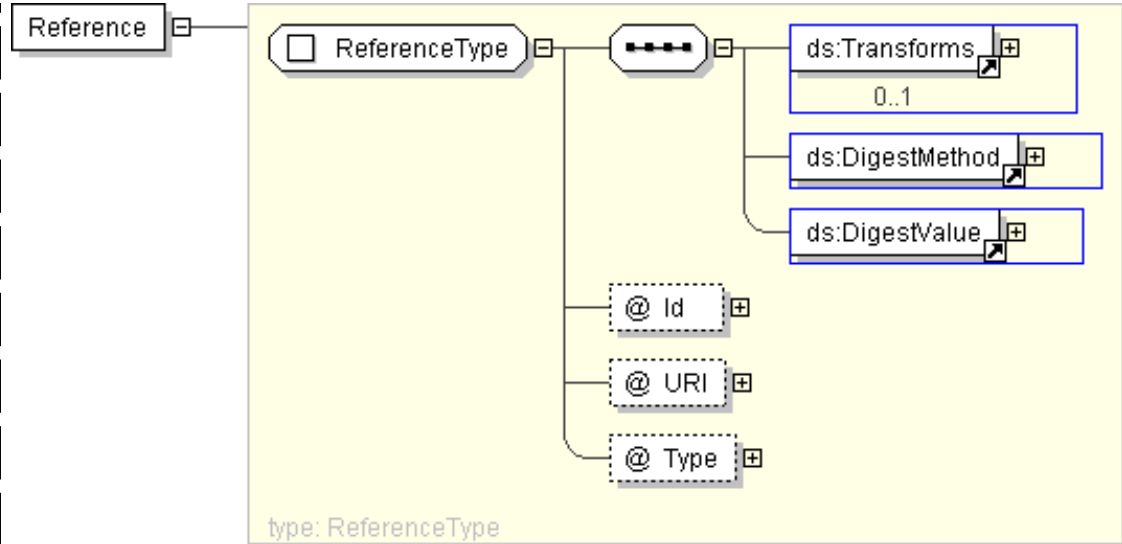




### XML Instance Representation

```
<ds:Reference
  Id="ID [0..1]"
  URI="anyURI [0..1]"
  Type="anyURI [0..1]">
  <ds:Transforms> ... </ds:Transforms> [0..1]
  <ds:DigestMethod> ... </ds:DigestMethod> [1]
  <ds:DigestValue> ... </ds:DigestValue> [1]
</ds:Reference>
```

### Diagram



Schema Component Representation

```
<element name="Reference" type=" ds:ReferenceType " />
```

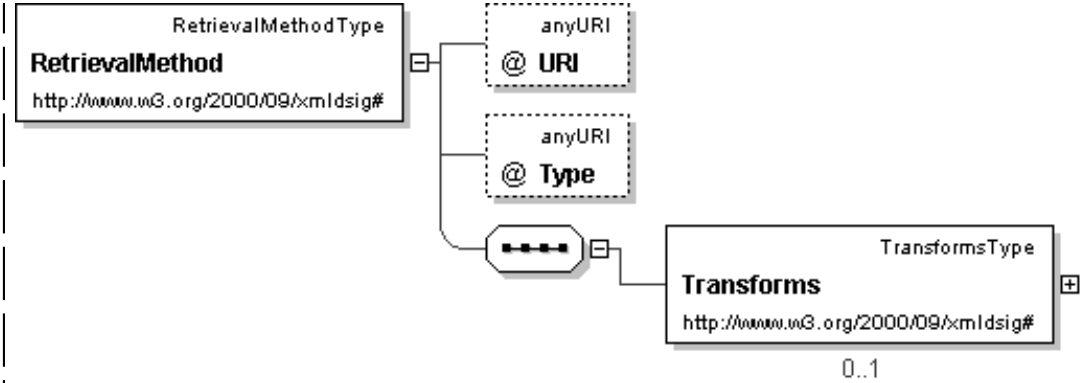
[top](#)

Element: RetrievalMethod

Name	RetrievalMethod
Type	<a href="#">ds:RetrievalMethodType</a>
Nilable	no
Abstract	no

Logical Diagram

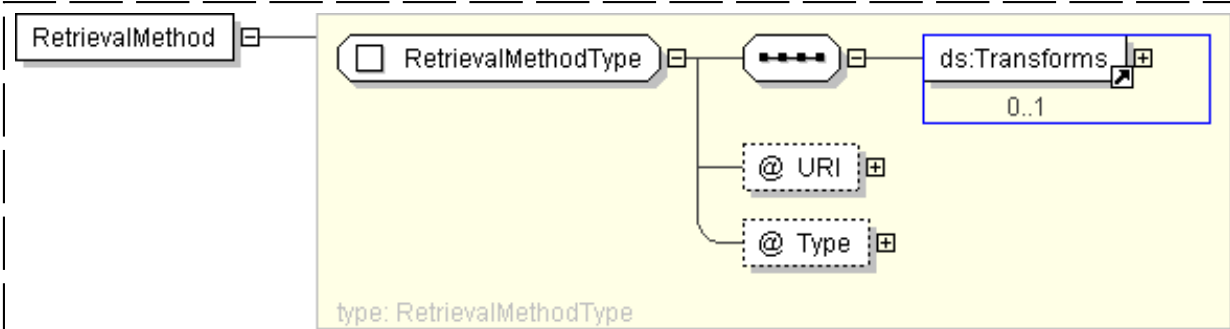




XML Instance Representation

```
<ds:RetrievalMethod
URI="anyURI [0..1]"
Type="anyURI [0..1]">
  <ds:Transforms> ... </ds:Transforms> [0..1]
</ds:RetrievalMethod>
```

Diagram



Schema Component Representation

```
<element name="RetrievalMethod" type=" ds:RetrievalMethodType " />
```

[top](#)

Element: **SPKIData**

Name	SPKIData
------	----------

Type	<a href="#">ds:SPKIDataType</a>
Nilable	no
Abstract	no

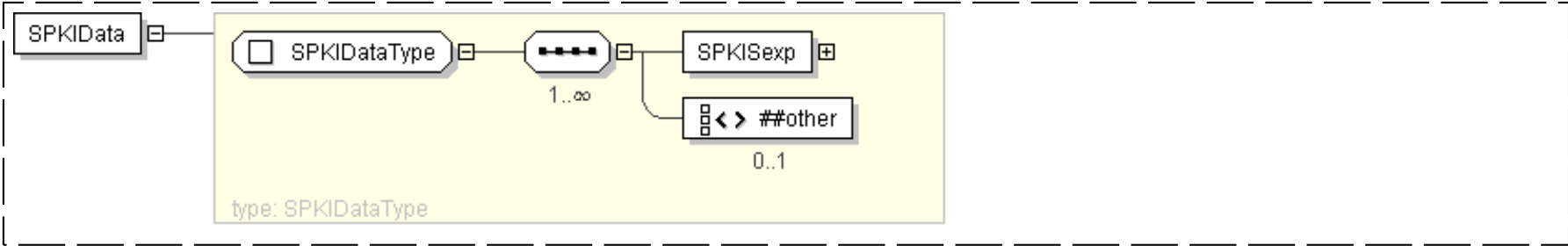
Logical Diagram



XML Instance Representation

```
<ds:SPKIData>
  Start Sequence [1..*]
    <ds:SPKISexp> base64Binary </ds:SPKISexp> [1]
    Allow any elements from a namespace other than this schema's namespace (lax validation). [0..1]
  End Sequence
</ds:SPKIData>
```

Diagram



Schema Component Representation

```
<element name="SPKIData" type="ds:SPKIDataType" />
```

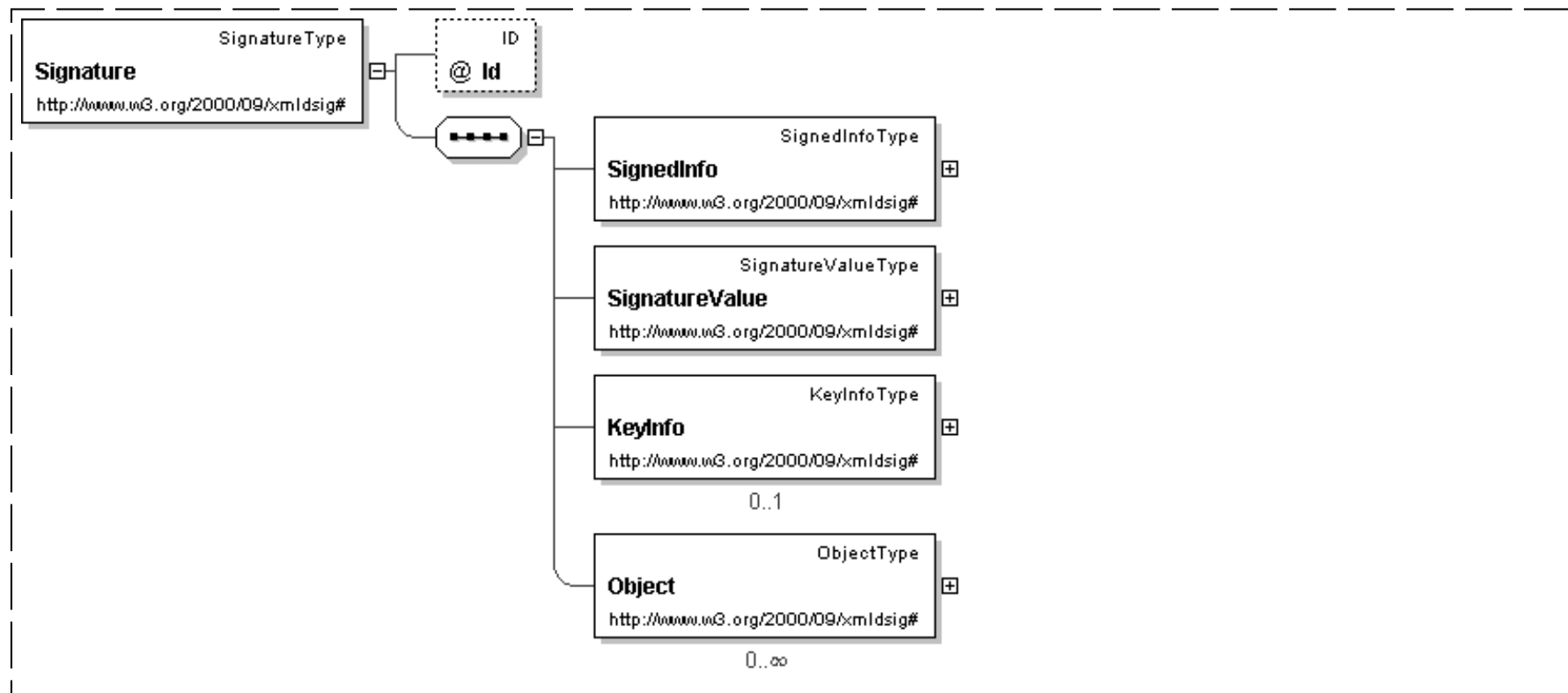
[top](#)

Element: **Signature**

Name	Signature
------	-----------

<b>Type</b>	<a href="#">ds:SignatureType</a>
<b>Nilable</b>	no
<b>Abstract</b>	no

### Logical Diagram

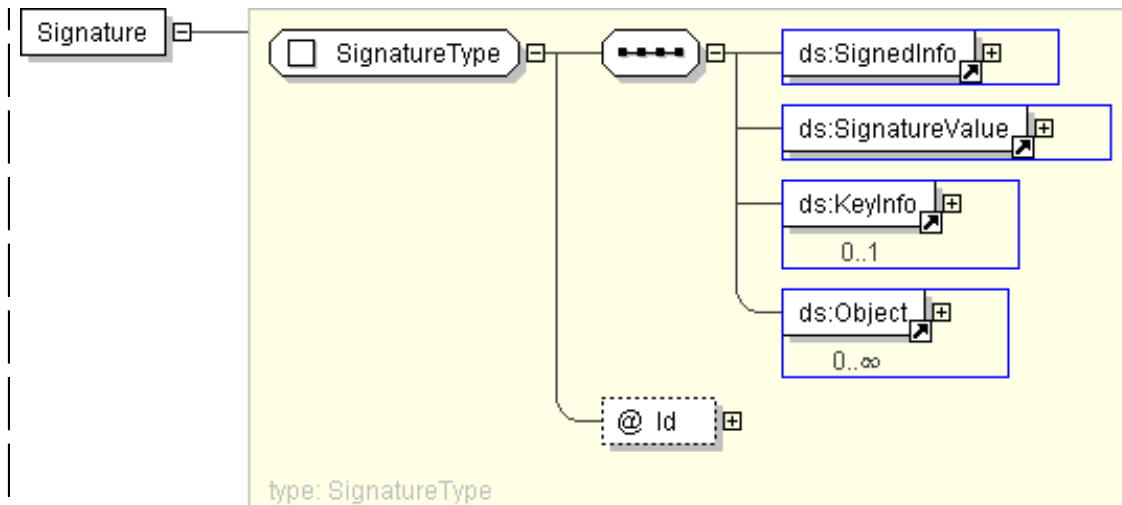


### XML Instance Representation

```

<ds:Signature
  Id="ID [0..1]">
  <ds:SignedInfo> ... </ds:SignedInfo> [1]
  <ds:SignatureValue> ... </ds:SignatureValue> [1]
  <ds:KeyInfo> ... </ds:KeyInfo> [0..1]
  <ds:Object> ... </ds:Object> [0..*]
</ds:Signature>
  
```

### Diagram



### Schema Component Representation

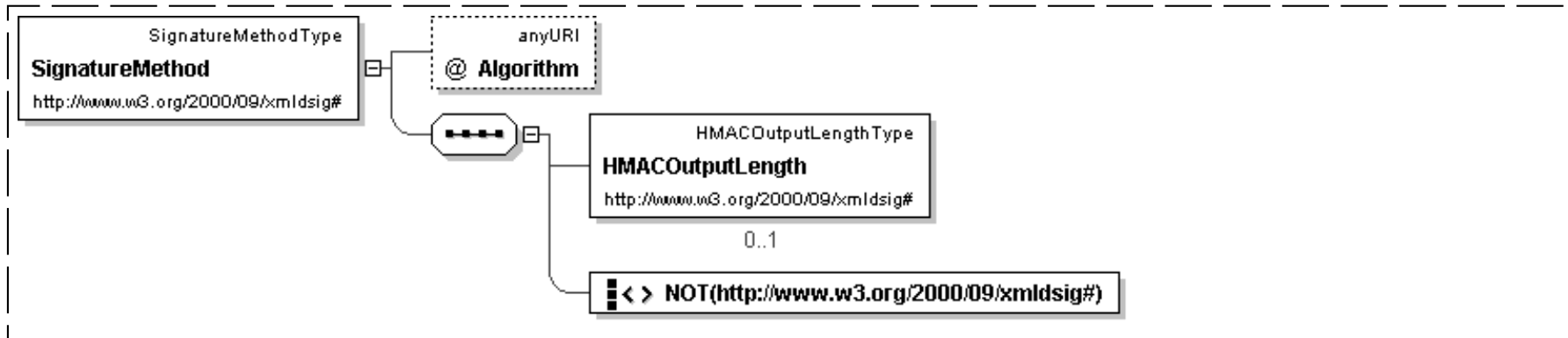
```
<element name="Signature" type=" ds:SignatureType " />
```

[top](#)

## Element: **SignatureMethod**

<b>Name</b>	SignatureMethod
<b>Type</b>	<a href="#">ds:SignatureMethodType</a>
<b>Nilable</b>	no
<b>Abstract</b>	no

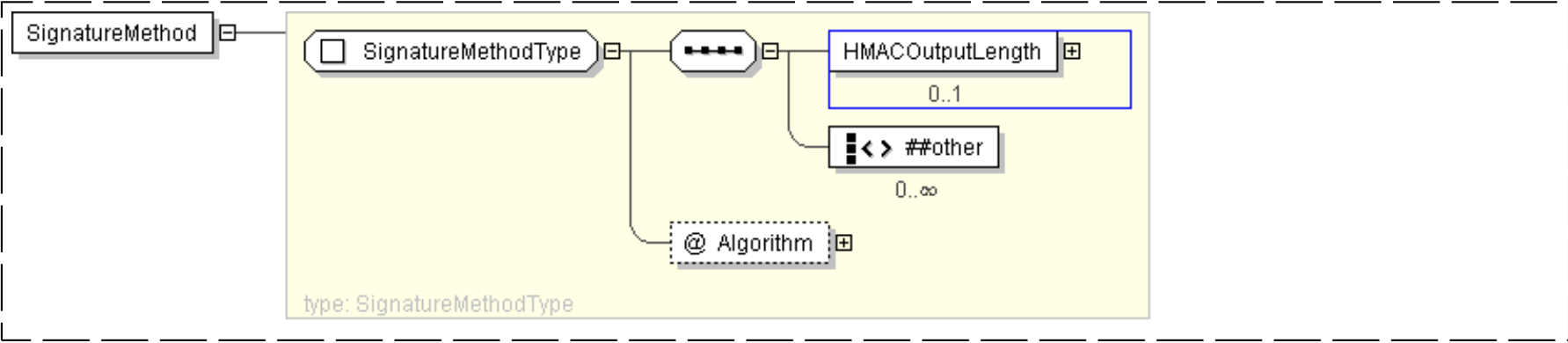
### Logical Diagram



XML Instance Representation

```
<ds:SignatureMethod
Algorithm="anyURI [1]">
  <!-- Mixed content -->
    <ds:HMACOutputLength> ds:HMACOutputLengthType </ds:HMACOutputLength> [0..1]
    Allow any elements from a namespace other than this schema's namespace (strict validation).
    [0..*]
</ds:SignatureMethod>
```

Diagram



Schema Component Representation

```
<element name="SignatureMethod" type=" ds:SignatureMethodType " />
```

[top](#)

Element: **SignatureProperties**

Name	SignatureProperties
Type	<a href="#">ds:SignaturePropertiesType</a>
Nilable	no
Abstract	no

Logical Diagram

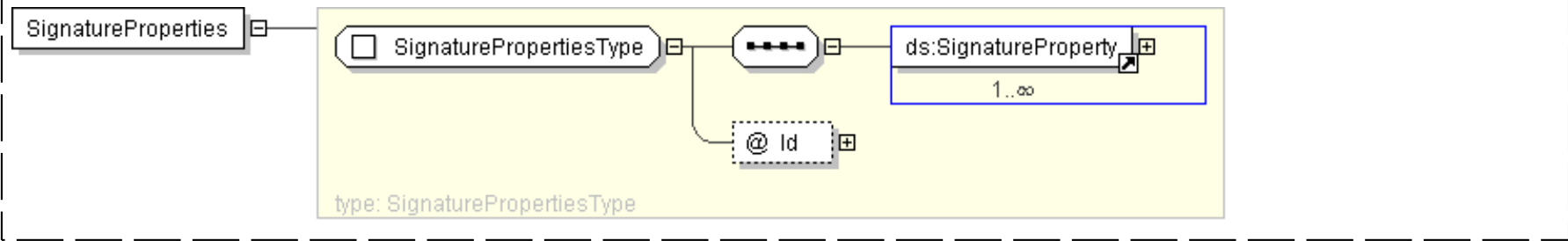




XML Instance Representation

```
<ds:SignatureProperties
  Id="ID [0..1]">
  <ds:SignatureProperty> ... </ds:SignatureProperty> [1..*]
</ds:SignatureProperties>
```

Diagram



Schema Component Representation

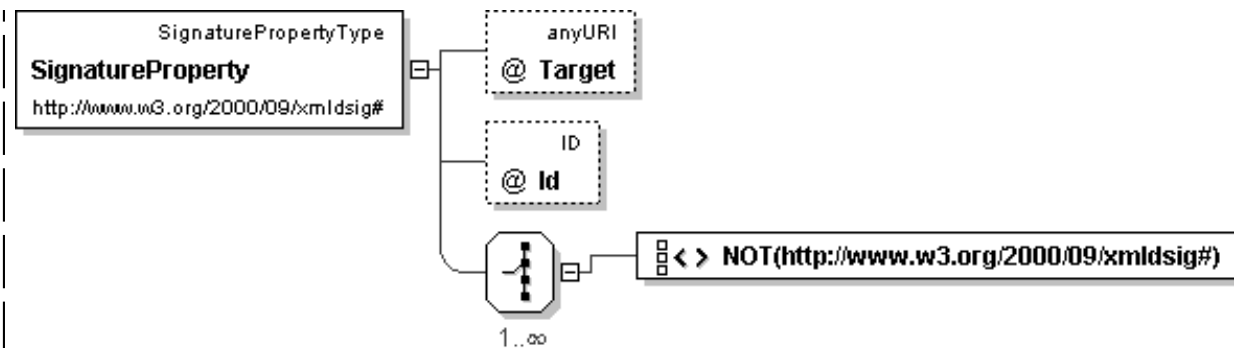
```
<element name="SignatureProperties" type=" ds:SignaturePropertiesType " />
```

[top](#)

Element: **SignatureProperty**

Name	SignatureProperty
Type	<a href="#">ds:SignaturePropertyType</a>
Nilable	no
Abstract	no

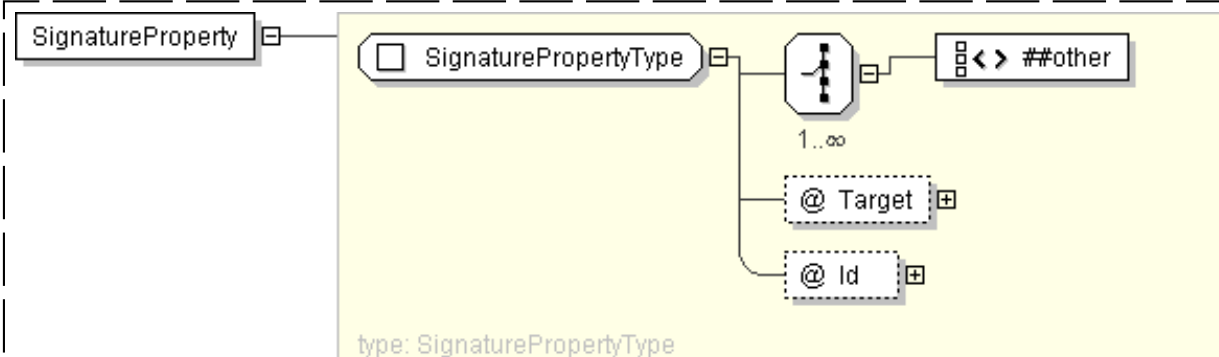
Logical Diagram



### XML Instance Representation

```
<ds:SignatureProperty
  Target="anyURI [1]"
  Id="ID [0..1]">
  <!-- Mixed content -->
  Start Choice [1..*]
    Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
  End Choice
</ds:SignatureProperty>
```

### Diagram



### Schema Component Representation

```
<element name="SignatureProperty" type="ds:SignaturePropertyType" />
```

Name	SignatureValue
Type	<a href="#">ds:SignatureValueType</a>
Nilable	no
Abstract	no

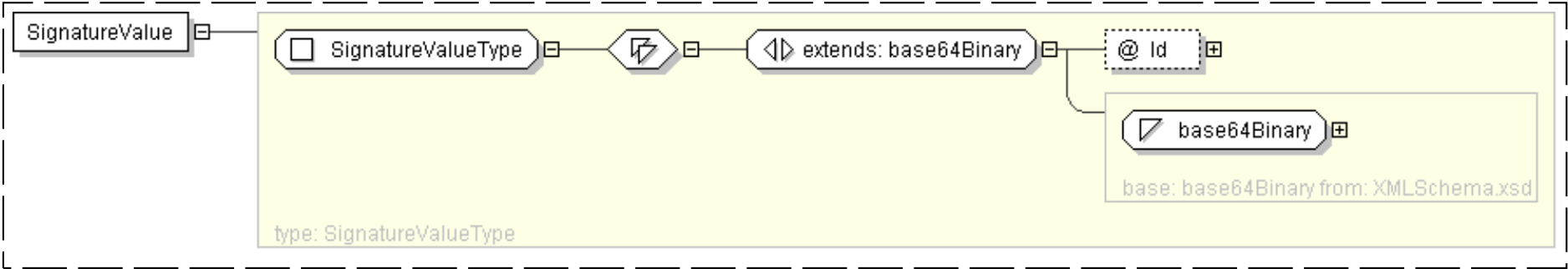
Logical Diagram



XML Instance Representation

```
<ds:SignatureValue
  Id="ID [0..1]">
  base64Binary
</ds:SignatureValue>
```

Diagram



Schema Component Representation

```
<element name="SignatureValue" type=" ds:SignatureValueType "/>
```

[top](#)

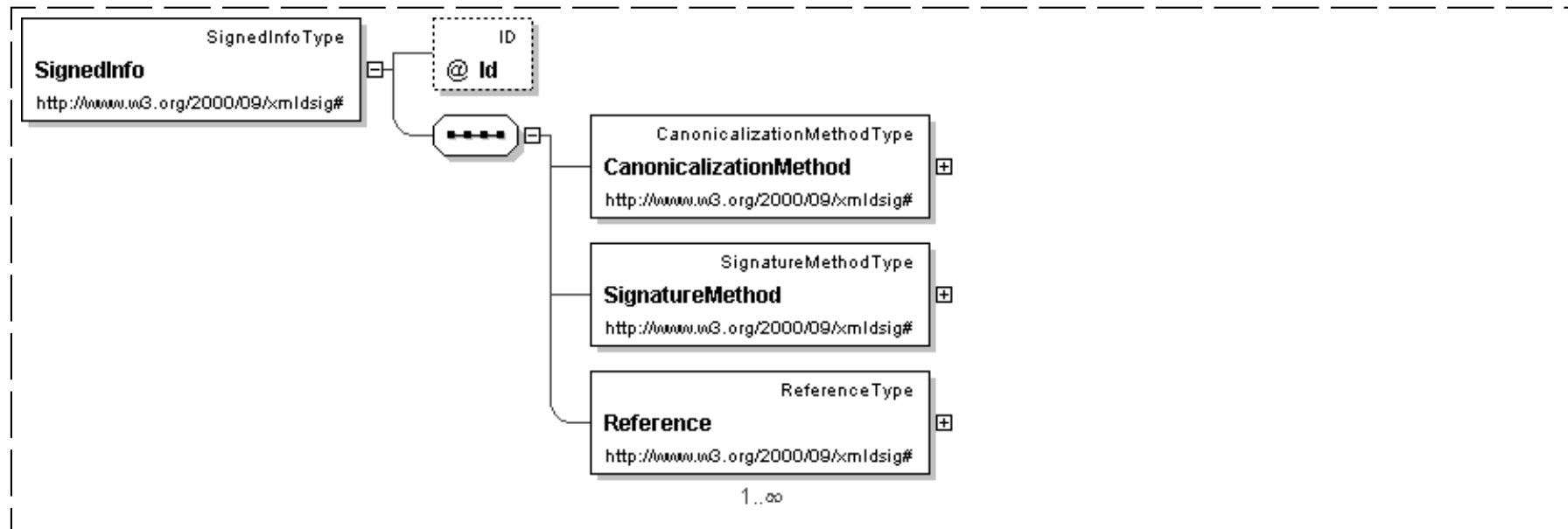
Element: **SignedInfo**

Name	SignedInfo
Type	<a href="#">ds:SignedInfoType</a>
Nilable	no



**Abstract**

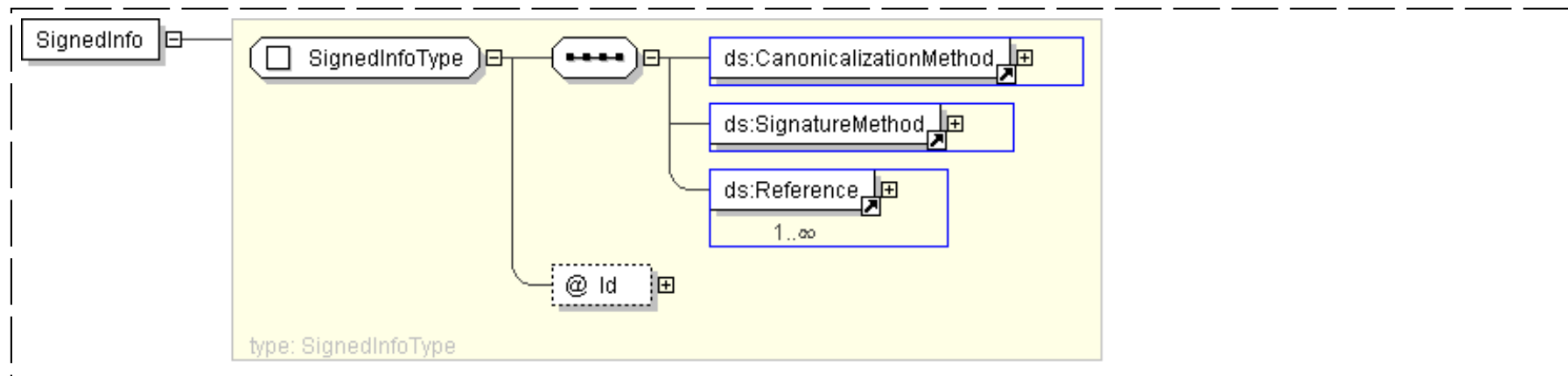
no

**Logical Diagram****XML Instance Representation**

```

<ds:SignedInfo
  Id="ID [0..1]">
  <ds:CanonicalizationMethod> ... </ds:CanonicalizationMethod> [1]
  <ds:SignatureMethod> ... </ds:SignatureMethod> [1]
  <ds:Reference> ... </ds:Reference> [1..*]
</ds:SignedInfo>

```

**Diagram**

Schema Component Representation

```
<element name="signedInfo" type=" ds:SignedInfoType " />
```

[top](#)

Element: Transform

Name	Transform
Type	<a href="#">ds:TransformType</a>
Nilable	no
Abstract	no

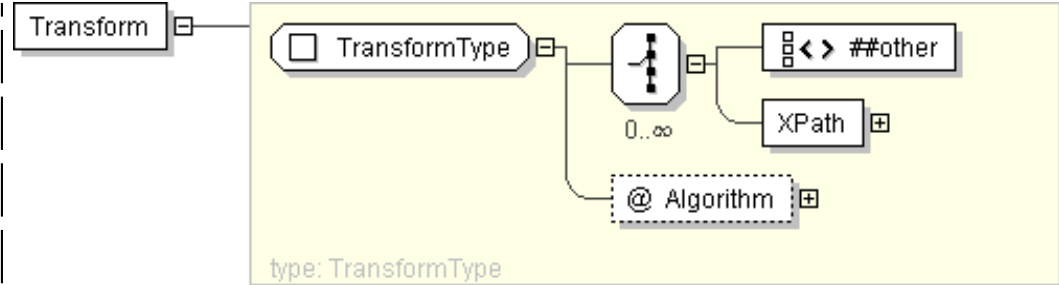
Logical Diagram



XML Instance Representation

```
<ds:Transform
Algorithm="anyURI [1]">
<!-- Mixed content -->
Start Choice [0..*]
    Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
    <ds:XPath> string </ds:XPath> [1]
End Choice
</ds:Transform>
```

Diagram



Schema Component Representation

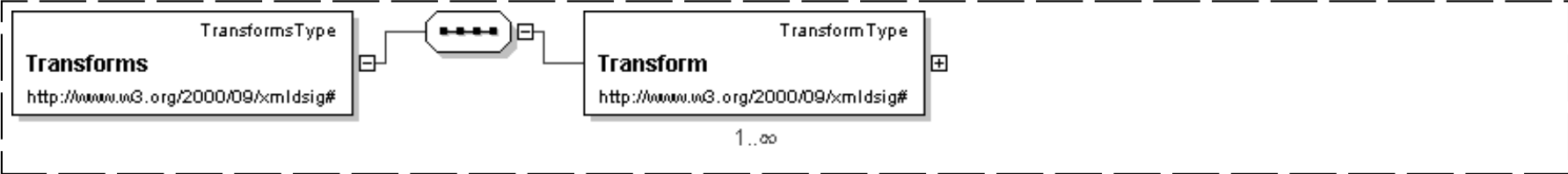
```
<element name="Transform" type=" ds:TransformType " />
```

[top](#)

Element: **Transforms**

Name	Transforms
Type	<a href="#">ds:TransformsType</a>
Nilable	no
Abstract	no

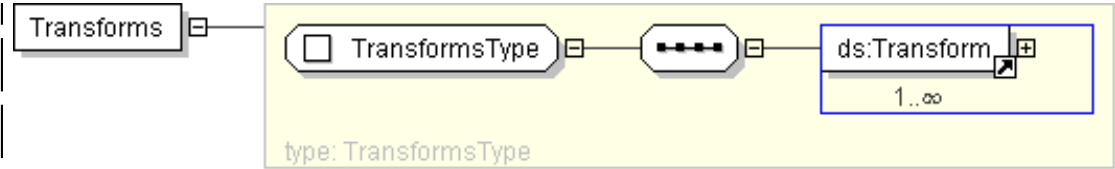
Logical Diagram



XML Instance Representation

```
<ds:Transforms>  
  <ds:Transform> ... </ds:Transform> [1..*]  
</ds:Transforms>
```

Diagram



Schema Component Representation

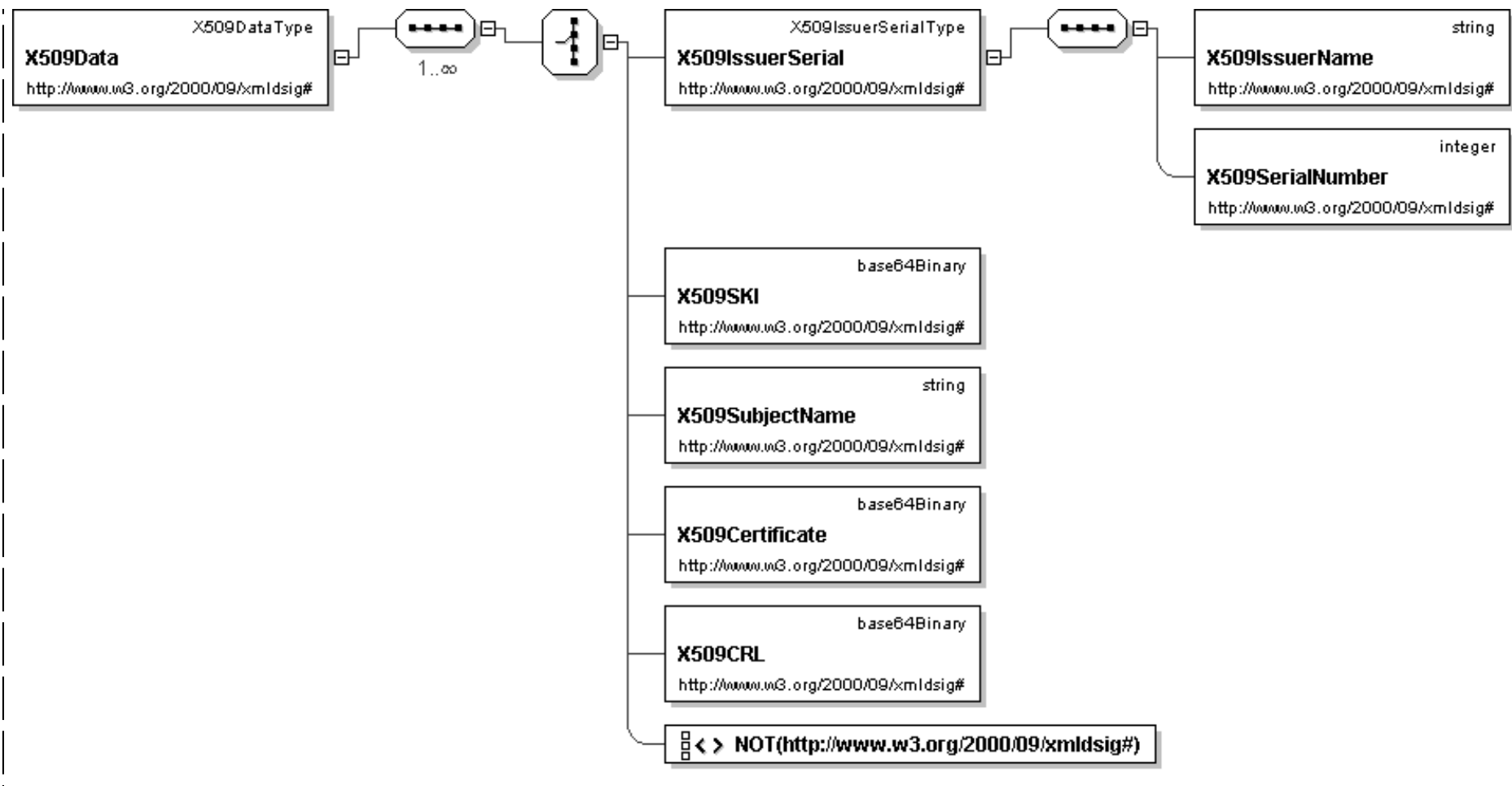
```
<element name="Transforms" type="ds:TransformsType" />
```

[top](#)

Element: X509Data

Name	X509Data
Type	<a href="#">ds:X509DataType</a>
Nilable	no
Abstract	no

Logical Diagram



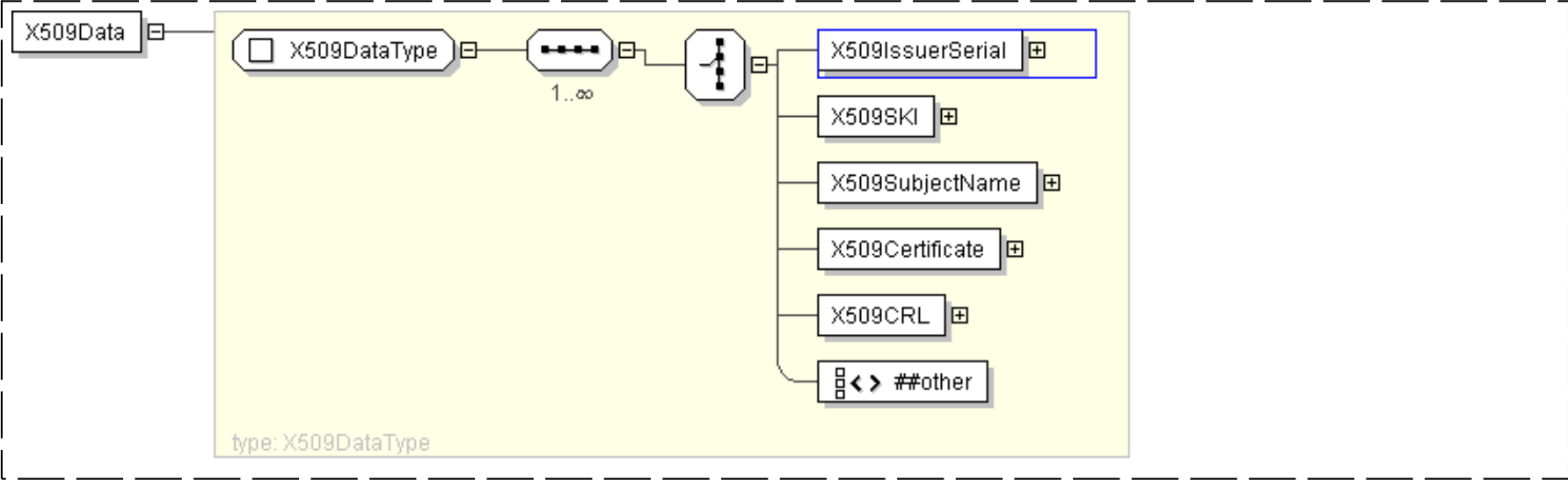
## XML Instance Representation

```

<ds:X509Data>
  Start Sequence [1..*]
  Start Choice [1]
    <ds:X509IssuerSerial> ds:X509IssuerSerialType </ds:X509IssuerSerial> [1]
    <ds:X509SKI> base64Binary </ds:X509SKI> [1]
    <ds:X509SubjectName> string </ds:X509SubjectName> [1]
    <ds:X509Certificate> base64Binary </ds:X509Certificate> [1]
    <ds:X509CRL> base64Binary </ds:X509CRL> [1]
    Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
  End Choice
End Sequence
</ds:X509Data>

```

## Diagram



Schema Component Representation

```
<element name="X509Data" type=" ds:X509DataType " />
```

[top](#)

Global Definitions

Complex Type: CanonicalizationMethodType

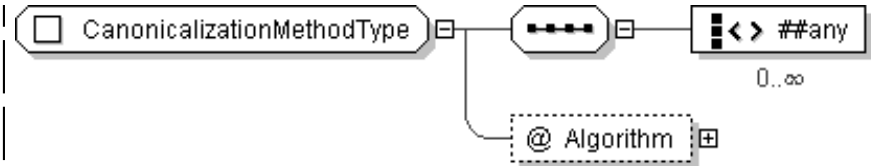
Super-types:	None
Sub-types:	None

Name	CanonicalizationMethodType
Abstract	no

XML Instance Representation

```
<...  
Algorithm="anyURI [1]">  
<!-- Mixed content -->  
  Allow any elements from any namespace (strict validation). [0..*]  
</...>
```

Diagram



Schema Component Representation

```
<complexType name="CanonicalizationMethodType" mixed="true">
  <sequence>
    <any namespace="##any" minOccurs="0" maxOccurs="unbounded" />
    <-- (0,unbounded) elements from (1,1) namespace -->
  </sequence>
  <attribute name="Algorithm" type="anyURI" use="required" />
</complexType>
```

[top](#)

Complex Type: **DSAKeyValue**Type

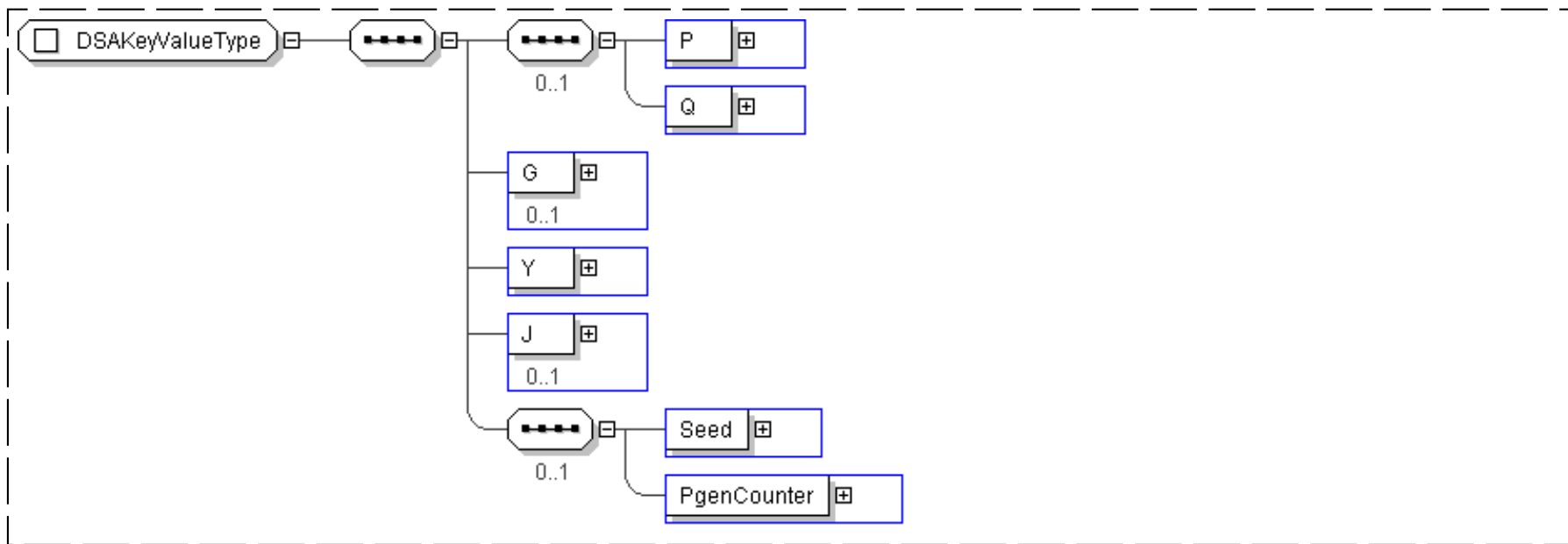
Super-types:	None
Sub-types:	None

Name	DSAKeyValue
Abstract	no

XML Instance Representation

```
<...>
Start Sequence [0..1]
  <ds:P> ds:CryptBinary </ds:P> [1]
  <ds:Q> ds:CryptBinary </ds:Q> [1]
End Sequence
<ds:G> ds:CryptBinary </ds:G> [0..1]
<ds:Y> ds:CryptBinary </ds:Y> [1]
<ds:J> ds:CryptBinary </ds:J> [0..1]
Start Sequence [0..1]
  <ds:Seed> ds:CryptBinary </ds:Seed> [1]
  <ds:PgenCounter> ds:CryptBinary </ds:PgenCounter> [1]
End Sequence
</...>
```

Diagram



### Schema Component Representation

```

<complexType name="DSASKeyValueType">
  <sequence>
    <sequence minOccurs="0">
      <element name="P" type="ds:CryptoBinary"/>
      <element name="Q" type="ds:CryptoBinary"/>
    </sequence>
    <element name="G" type="ds:CryptoBinary" minOccurs="0"/>
    <element name="Y" type="ds:CryptoBinary"/>
    <element name="J" type="ds:CryptoBinary" minOccurs="0"/>
    <sequence minOccurs="0">
      <element name="Seed" type="ds:CryptoBinary"/>
      <element name="PgenCounter" type="ds:CryptoBinary"/>
    </sequence>
  </sequence>
</complexType>

```

[top](#)

### Complex Type: **DigestMethodType**

Super-types:	None
Sub-types:	None



Name	DigestMethodType
Abstract	no

XML Instance Representation

```
<...  
Algorithm="anyURI [1]">  
<!-- Mixed content -->  
    Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]  
</...>
```

Diagram



Schema Component Representation

```
<complexType name="DigestMethodType" mixed="true">  
  <sequence>  
    <any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  
  </sequence>  
  <attribute name="Algorithm" type="anyURI" use="required"/>  
</complexType>
```

[top](#)

Complex Type: **KeyInfoType**

Super-types:	None
Sub-types:	None

Name	KeyInfoType
Abstract	no

XML Instance Representation

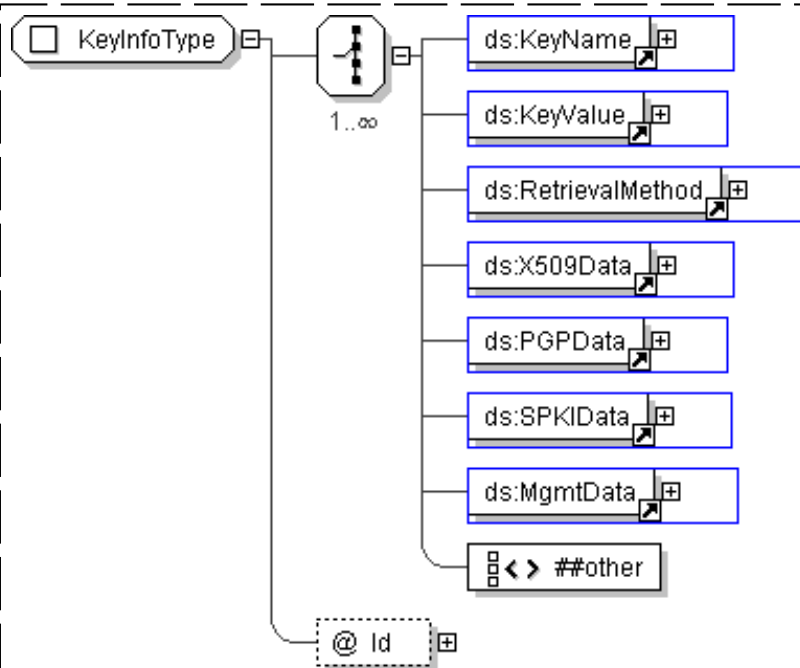
```
<...  
Id="ID [0..1]">  
<!-- Mixed content -->
```

```

Start Choice [1..*]
  <ds:KeyName> ... </ds:KeyName> [1]
  <ds:KeyValue> ... </ds:KeyValue> [1]
  <ds:RetrievalMethod> ... </ds:RetrievalMethod> [1]
  <ds:X509Data> ... </ds:X509Data> [1]
  <ds:PGPData> ... </ds:PGPData> [1]
  <ds:SPKIDData> ... </ds:SPKIDData> [1]
  <ds:MgmtData> ... </ds:MgmtData> [1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
End Choice
</...>

```

## Diagram



## Schema Component Representation

```

<complexType name="KeyInfoType" mixed="true">
  <choice maxOccurs="unbounded">
    <element ref="ds:KeyName" />
    <element ref="ds:KeyValue" />
    <element ref="ds:RetrievalMethod" />
    <element ref="ds:X509Data" />
    <element ref="ds:PGPData" />
    <element ref="ds:SPKIDData" />
  
```

```
<element ref=" ds:MgmtData " />
<any namespace="##other" processContents="lax"/>
<!-- (1,1) elements from (0,unbounded) namespaces -->
</choice>
<attribute name="Id" type=" ID " use="optional"/>
</complexType>
```

[top](#)

Complex Type: **KeyValue**Type

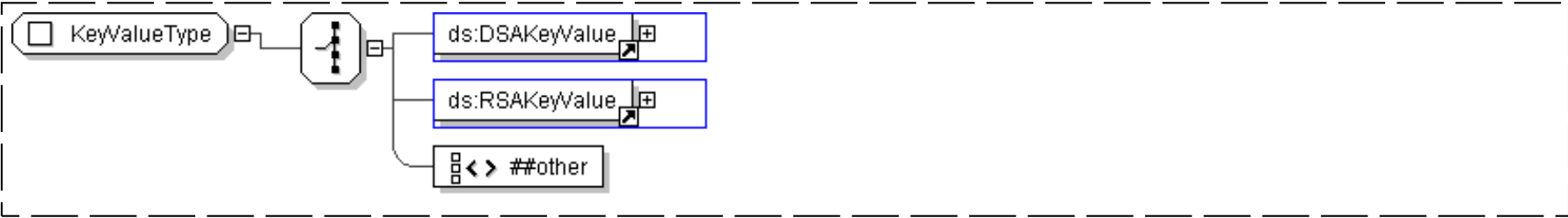
Super-types:	None
Sub-types:	None

Name	KeyValue
Abstract	no

XML Instance Representation

```
<...>
<!-- Mixed content -->
Start Choice [1]
  <ds:DSAKeyValue> ... </ds:DSAKeyValue> [1]
  <ds:RSAKeyValue> ... </ds:RSAKeyValue> [1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
End Choice
</...>
```

Diagram



Schema Component Representation

```
<complexType name="KeyValue" mixed="true">
  <choice>
    <element ref=" ds:DSAKeyValue " />
    <element ref=" ds:RSAKeyValue " />

```

```
<any namespace="##other" processContents="lax"/>
</choice>
</complexType>
```

[top](#)

Complex Type: **ManifestType**

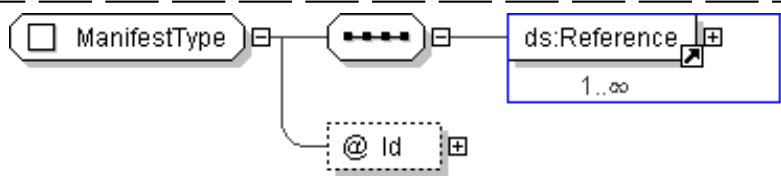
Super-types:	None
Sub-types:	None

Name	ManifestType
Abstract	no

XML Instance Representation

```
<...
  Id="ID [0..1]">
    <ds:Reference> ... </ds:Reference> [1..*]
  </...>
```

Diagram



Schema Component Representation

```
<complexType name="ManifestType">
  <sequence>
    <element ref="ds:Reference" maxOccurs="unbounded"/>
  </sequence>
  <attribute name="Id" type="ID" use="optional"/>
</complexType>
```

[top](#)

Complex Type: **ObjectType**

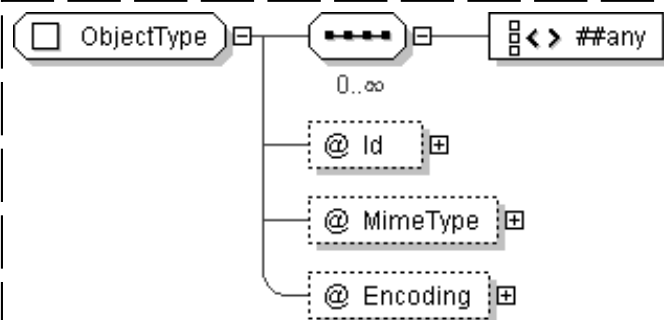
<i>Super-types:</i>	None
<i>Sub-types:</i>	None

<b>Name</b>	ObjectType
<b>Abstract</b>	no

### XML Instance Representation

```
<...
  Id="ID [0..1]"
  MimeType="string [0..1]"
  Encoding="anyURI [0..1]">
  <!-- Mixed content -->
  Start Sequence [0..*]
    Allow any elements from any namespace (lax validation). [1]
  End Sequence
</...>
```

### Diagram



### Schema Component Representation

```
<complexType name="ObjectType" mixed="true">
  <sequence minOccurs="0" maxOccurs="unbounded">
    <any namespace="##any" processContents="lax"/>
  </sequence>
  <attribute name="Id" type="ID" use="optional"/>
  <attribute name="MimeType" type="string" use="optional"/>
  <attribute name="Encoding" type="anyURI" use="optional"/>
  <!-- add a grep facet -->
</complexType>
```

Complex Type: **PGPDataType**

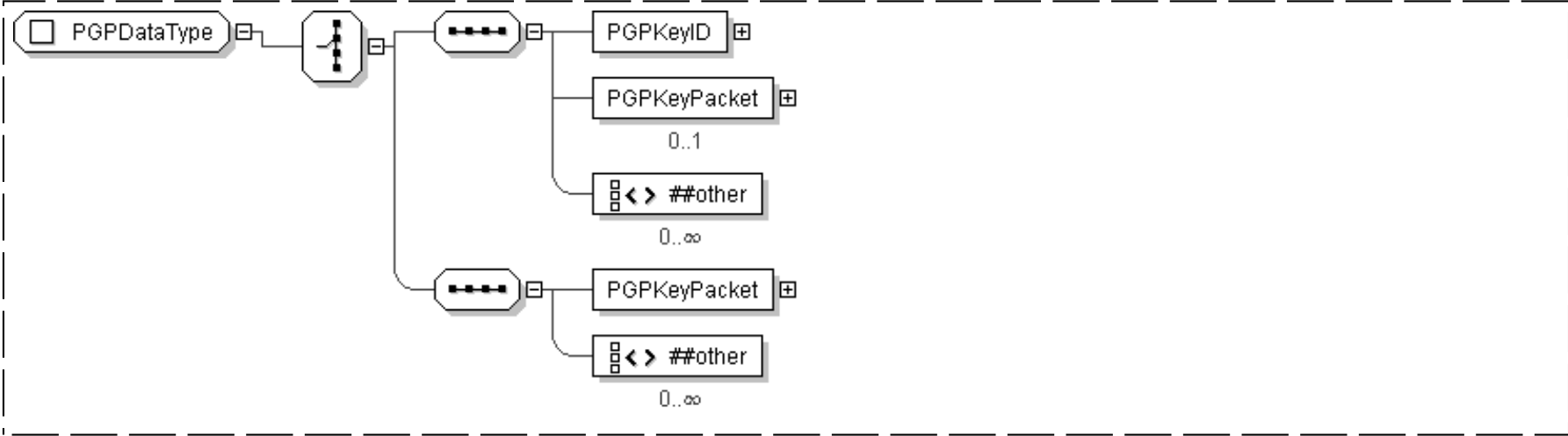
Super-types:	None
Sub-types:	None

Name	PGPDataType
Abstract	no

XML Instance Representation

```
<...>
Start Choice [1]
  <ds:PGPKeyID> base64Binary </ds:PGPKeyID> [1]
  <ds:PGPKeyPacket> base64Binary </ds:PGPKeyPacket> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
  <ds:PGPKeyPacket> base64Binary </ds:PGPKeyPacket> [1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
End Choice
</...>
```

Diagram



Schema Component Representation

```
<complexType name="PGPDataType">
  <choice>
    <sequence>
      <element name="PGPKeyID" type="base64Binary"/>
      <element name="PGPKeyPacket" type="base64Binary" minOccurs="0"/>
      <any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
    
```

```

    </sequence>
    <sequence>
      <element name="PGPKeyPacket" type=" base64Binary " />
      <any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded" />
    </sequence>
  </choice>
</complexType>

```

[top](#)

Complex Type: **RSAPublicKeyType**

Super-types:	None
Sub-types:	None

Name	RSAPublicKeyType
Abstract	no

XML Instance Representation

```

<...>
  <ds:Modulus> ds:CryptographicBinary </ds:Modulus> [1]
  <ds:Exponent> ds:CryptographicBinary </ds:Exponent> [1]
</...>

```

Diagram



Schema Component Representation

```

<complexType name="RSAPublicKeyType">
  <sequence>
    <element name="Modulus" type=" ds:CryptographicBinary " />
    <element name="Exponent" type=" ds:CryptographicBinary " />
  </sequence>
</complexType>

```

[top](#)

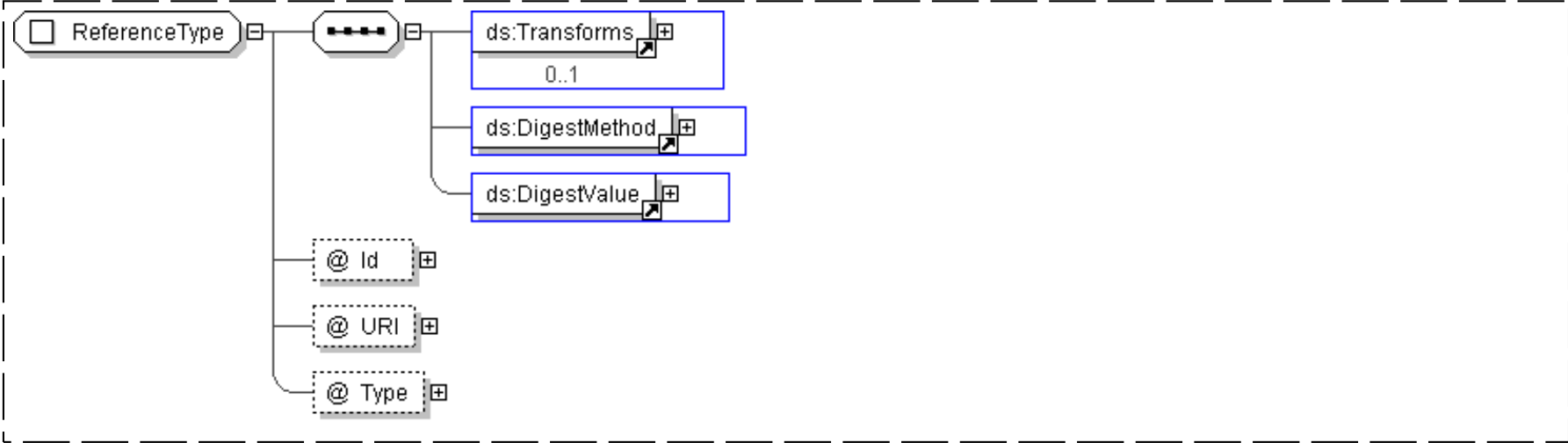
Complex Type: **ReferenceType**

Super-types:	None
Sub-types:	None
Name	ReferenceType
Abstract	no

XML Instance Representation

```
<...  
  Id="ID [0..1]"  
  URI="anyURI [0..1]"  
  Type="anyURI [0..1]">  
    <ds:Transforms> ... </ds:Transforms> [0..1]  
    <ds:DigestMethod> ... </ds:DigestMethod> [1]  
    <ds:DigestValue> ... </ds:DigestValue> [1]  
  </...>
```

Diagram



Schema Component Representation

```
<complexType name="ReferenceType">  
  <sequence>  
    <element ref="ds:Transforms" minOccurs="0"/>  
    <element ref="ds:DigestMethod"/>  
    <element ref="ds:DigestValue"/>  
  </sequence>
```



```
<attribute name="Id" type=" ID " use="optional"/>
<attribute name="URI" type=" anyURI " use="optional"/>
<attribute name="Type" type=" anyURI " use="optional"/>
</complexType>
```

Complex Type: RetrievalMethodType

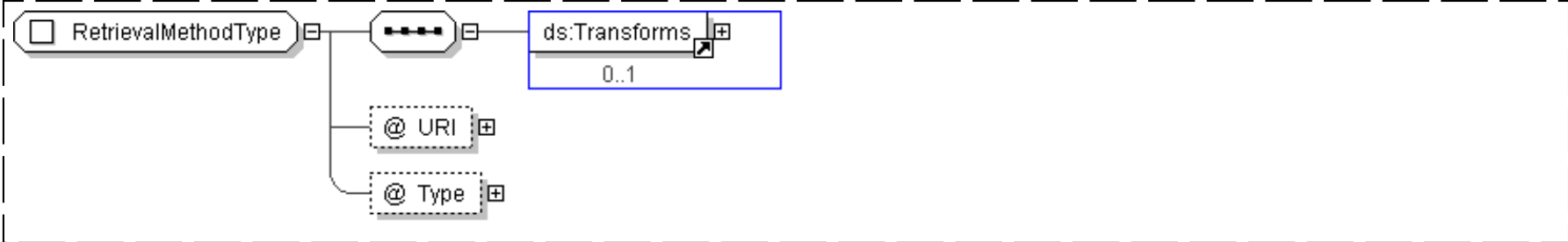
Super-types:	None
Sub-types:	None

Name	RetrievalMethodType
Abstract	no

XML Instance Representation

```
<...
URI="anyURI [0..1]"
Type="anyURI [0..1]">
  <ds:Transforms> ... </ds:Transforms> [0..1]
</...>
```

Diagram



Schema Component Representation

```
<complexType name="RetrievalMethodType">
  <sequence>
    <element ref=" ds:Transforms " minOccurs="0"/>
  </sequence>
  <attribute name="URI" type=" anyURI "/>
  <attribute name="Type" type=" anyURI " use="optional"/>
</complexType>
```

Complex Type: **SPKIDataType**

Super-types:	None
Sub-types:	None

Name	SPKIDataType
Abstract	no

XML Instance Representation

```
<...>
Start Sequence [1..*]
  <ds:SPKISexp> base64Binary </ds:SPKISexp> [1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..1]
End Sequence
</...>
```

Diagram



Schema Component Representation

```
<complexType name="SPKIDataType">
  <sequence maxOccurs="unbounded">
    <element name="SPKISexp" type="base64Binary"/>
    <any namespace="##other" processContents="lax" minOccurs="0"/>
  </sequence>
</complexType>
```

Complex Type: **SignatureMethodType**

Super-types:	None
--------------	------

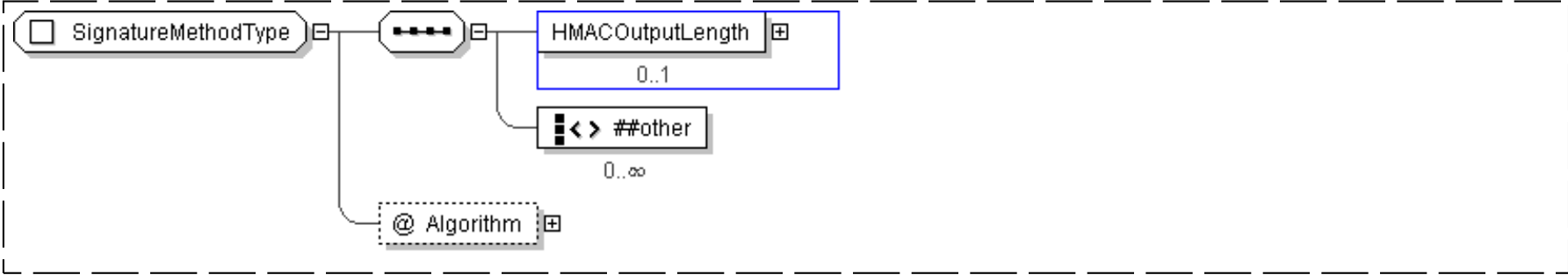
Sub-types:	None
------------	------

Name	SignatureMethodType
Abstract	no

XML Instance Representation

```
<...
Algorithm="anyURI [1]">
  <!-- Mixed content -->
  <ds:HMACOutputLength> ds:HMACOutputLengthType </ds:HMACOutputLength> [0..1]
  Allow any elements from a namespace other than this schema's namespace (strict validation).
  [0..*]
</...>
```

Diagram



Schema Component Representation

```
<complexType name="SignatureMethodType" mixed="true">
  <sequence>
    <element name="HMACOutputLength" type="ds:HMACOutputLengthType" minOccurs="0"/>
    <any namespace="##other" minOccurs="0" maxOccurs="unbounded"/>
    <!-- (0,unbounded) elements from (1,1) external namespace -->
  </sequence>
  <attribute name="Algorithm" type="anyURI" use="required"/>
</complexType>
```

[top](#)

Complex Type: **SignaturePropertiesType**

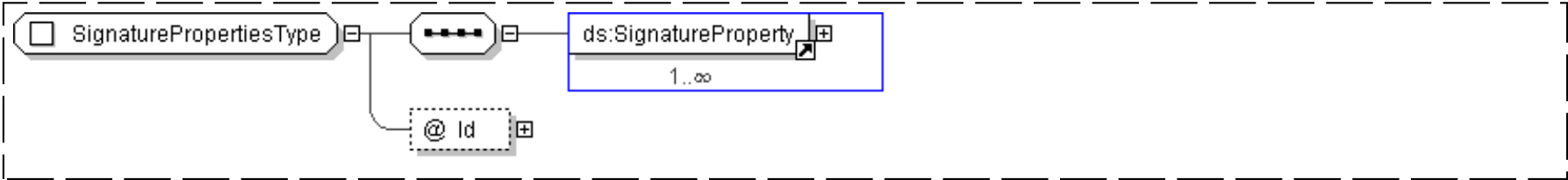
Super-types:	None
Sub-types:	None

Name	SignaturePropertiesType
Abstract	no

XML Instance Representation

```
<...  
  Id="ID [0..1]">  
    <ds:SignatureProperty> ... </ds:SignatureProperty> [1..*]  
</...>
```

Diagram



Schema Component Representation

```
<complexType name="SignaturePropertiesType">  
  <sequence>  
    <element ref="ds:SignatureProperty" maxOccurs="unbounded"/>  
  </sequence>  
  <attribute name="Id" type="ID" use="optional"/>  
</complexType>
```

[top](#)

Complex Type: **SignaturePropertyType**

Super-types:	None
Sub-types:	None

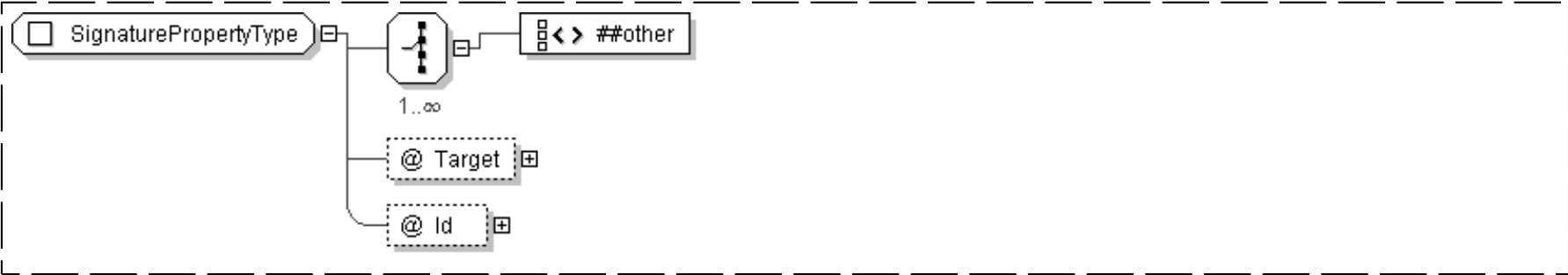
Name	SignaturePropertyType
Abstract	no

XML Instance Representation

```
<...  
  Target="anyURI [1]"  
  Id="ID [0..1]">  
  <!-- Mixed content -->
```

```
| Start Choice [1..*]  
|     Allow any elements from a namespace other than this schema's namespace (lax validation). [1]  
| End Choice  
| </...>
```

Diagram



Schema Component Representation

```
<complexType name="SignaturePropertyType" mixed="true">  
  <choice maxOccurs="unbounded">  
    <any namespace="##other" processContents="lax"/>  
    <!-- (1,1) elements from (1,unbounded) namespaces -->  
  </choice>  
  <attribute name="Target" type="anyURI" use="required"/>  
  <attribute name="Id" type="ID" use="optional"/>  
</complexType>
```

[top](#)

Complex Type: **SignatureType**

Super-types:	None
Sub-types:	None

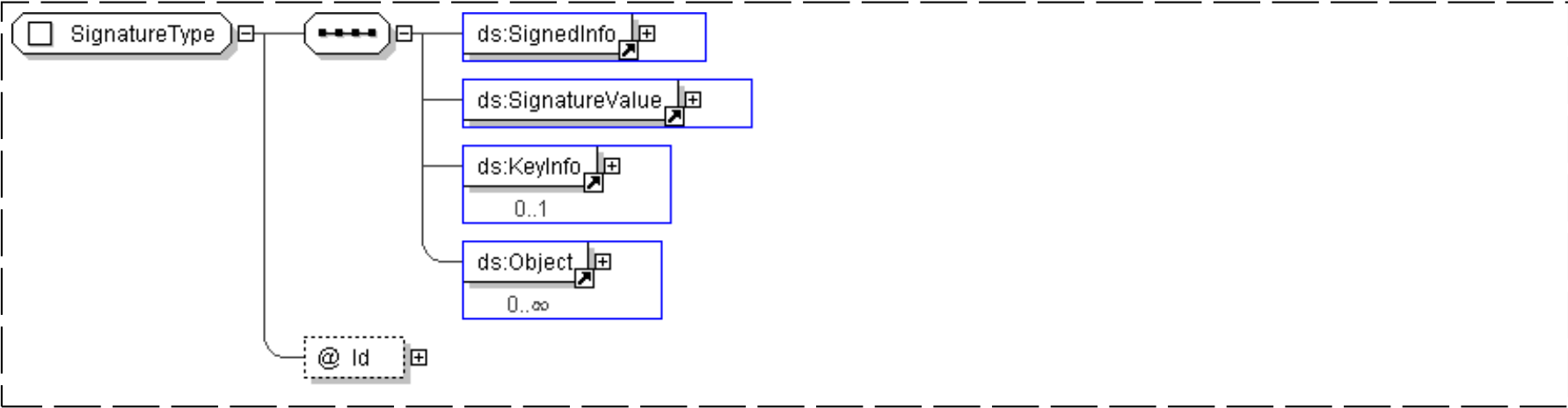
Name	SignatureType
Abstract	no

XML Instance Representation

```
<...  
Id="ID [0..1]">  
  <ds:SignedInfo> ... </ds:SignedInfo> [1]  
  <ds:SignatureValue> ... </ds:SignatureValue> [1]  
</...>
```

```
<ds:KeyInfo> ... </ds:KeyInfo> [0..1]
<ds:Object> ... </ds:Object> [0..*]
</...>
```

Diagram



Schema Component Representation

```
<complexType name="SignatureType">
  <sequence>
    <element ref=" ds:SignedInfo " />
    <element ref=" ds:SignatureValue " />
    <element ref=" ds:KeyInfo " minOccurs="0"/>
    <element ref=" ds:Object " minOccurs="0" maxOccurs="unbounded"/>
  </sequence>
  <attribute name="Id" type=" ID " use="optional"/>
</complexType>
```

[top](#)

Complex Type: **SignatureValueType**

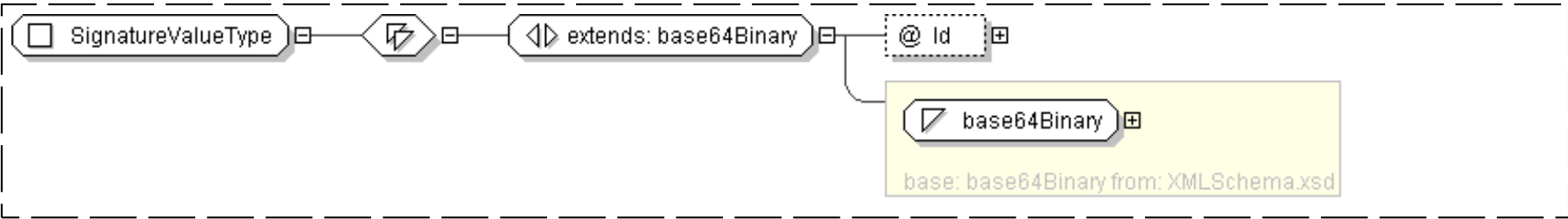
Super-types:	base64Binary < <b>SignatureValueType</b> (by extension)
Sub-types:	None

Name	SignatureValueType
Abstract	no

XML Instance Representation

```
<...  
  Id="ID [0..1]">  
  base64Binary  
</...>
```

Diagram



Schema Component Representation

```
<complexType name="SignatureValueType">  
  <simpleContent>  
    <extension base="base64Binary">  
      <attribute name="Id" type="ID" use="optional"/>  
    </extension>  
  </simpleContent>  
</complexType>
```

[top](#)

Complex Type: **SignedInfoType**

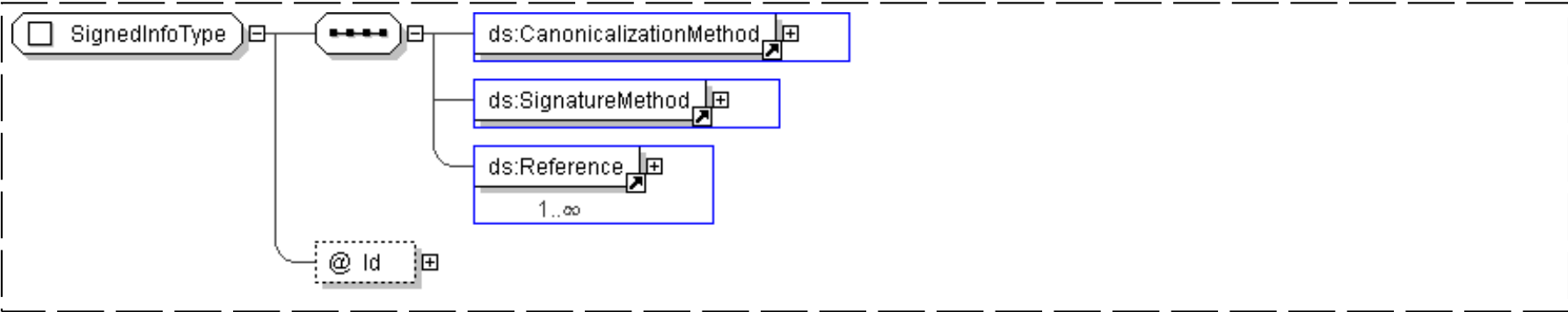
Super-types:	None
Sub-types:	None

Name	SignedInfoType
Abstract	no

XML Instance Representation

```
<...  
  Id="ID [0..1]">  
    <ds:CanonicalizationMethod> ... </ds:CanonicalizationMethod> [1]  
    <ds:SignatureMethod> ... </ds:SignatureMethod> [1]  
    <ds:Reference> ... </ds:Reference> [1..*]  
  </...>
```

Diagram



Schema Component Representation

```
<complexType name="SignedInfoType">
  <sequence>
    <element ref=" ds:CanonicalizationMethod " />
    <element ref=" ds:SignatureMethod " />
    <element ref=" ds:Reference " maxOccurs="unbounded" />
  </sequence>
  <attribute name="Id" type=" ID " use="optional" />
</complexType>
```

[top](#)

Complex Type: TransformType

Super-types:	None
Sub-types:	None

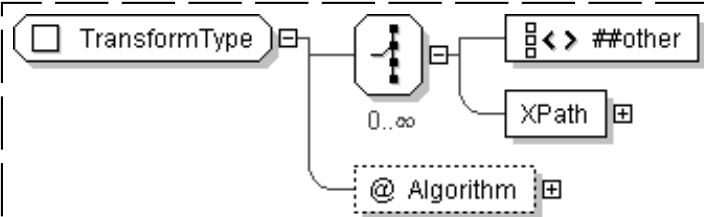
Name	TransformType
Abstract	no

XML Instance Representation

```
<...
Algorithm="anyURI [1]">
<!-- Mixed content -->
Start Choice [0..*]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
  <ds:XPath> string </ds:XPath> [1]
End Choice
</...>
```



Diagram



Schema Component Representation

```
<complexType name="TransformType" mixed="true">
  <choice minOccurs="0" maxOccurs="unbounded">
    <any namespace="##other" processContents="lax"/>
    <!-- (1,1) elements from (0,unbounded) namespaces -->
    <element name="XPath" type="string"/>
  </choice>
  <attribute name="Algorithm" type="anyURI" use="required"/>
</complexType>
```

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Complex Type: **TransformsType**

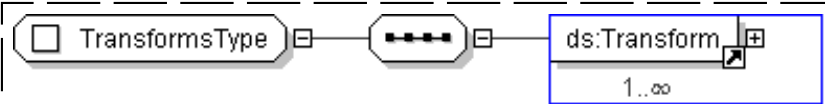
Super-types:	None
Sub-types:	None

Name	TransformsType
Abstract	no

XML Instance Representation

```
<...>
  <ds:Transform> ... </ds:Transform> [1..*]
</...>
```

Diagram



Schema Component Representation

```
<complexType name="TransformsType">
  <sequence>
    <element ref=" ds:Transform " maxOccurs="unbounded" />
  </sequence>
</complexType>
```

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Complex Type: X509DataType

Super-types:	None
Sub-types:	None

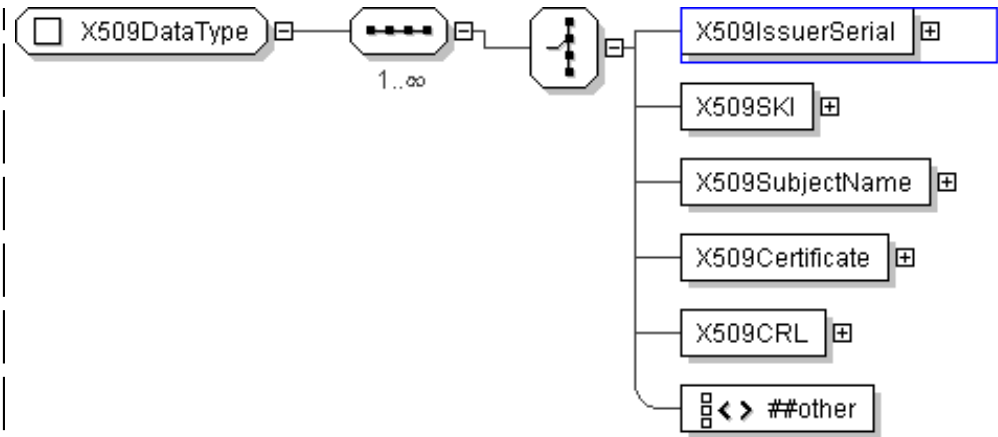
Name	X509DataType
Abstract	no

XML Instance Representation

```
<...>
Start Sequence [1..*]
Start Choice [1]
  <ds:X509IssuerSerial> ds:X509IssuerSerialType </ds:X509IssuerSerial> [1]
  <ds:X509SKI> base64Binary </ds:X509SKI> [1]
  <ds:X509SubjectName> string </ds:X509SubjectName> [1]
  <ds:X509Certificate> base64Binary </ds:X509Certificate> [1]
  <ds:X509CRL> base64Binary </ds:X509CRL> [1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [1]
End Choice
End Sequence
</...>
```

Diagram





Schema Component Representation

```
<complexType name="X509DataType">
  <sequence maxOccurs="unbounded">
    <choice>
      <element name="X509IssuerSerial" type=" ds:X509IssuerSerialType " />
      <element name="X509SKI" type=" base64Binary " />
      <element name="X509SubjectName" type=" string " />
      <element name="X509Certificate" type=" base64Binary " />
      <element name="X509CRL" type=" base64Binary " />
      <any namespace="##other" processContents="lax" />
    </choice>
  </sequence>
</complexType>
```

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Complex Type: **X509IssuerSerialType**

Super-types:	None
Sub-types:	None

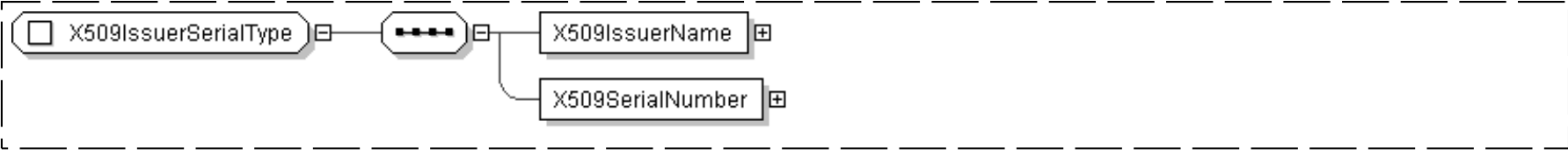
Name	X509IssuerSerialType
Abstract	no

XML Instance Representation

```
<...>
  <ds:X509IssuerName> string </ds:X509IssuerName> [1]
```

```
<ds:X509SerialNumber> integer </ds:X509SerialNumber> [1]
</...>
```

Diagram



Schema Component Representation

```
<complexType name="X509IssuerSerialType">
  <sequence>
    <element name="X509IssuerName" type="string"/>
    <element name="X509SerialNumber" type="integer"/>
  </sequence>
</complexType>
```

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Simple Type: **CryptoBinary**

Super-types:	base64Binary < <b>CryptoBinary</b> (by restriction)
Sub-types:	None

Name	CryptoBinary
Content	<ul style="list-style-type: none"><li>Base XSD Type: base64Binary</li></ul>

Diagram



Schema Component Representation

```
<simpleType name="CryptoBinary">
  <restriction base="base64Binary"/>
</simpleType>
```

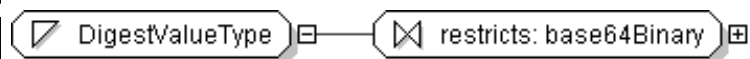
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## Simple Type: **DigestValueType**

<i>Super-types:</i>	base64Binary < <b>DigestValueType</b> (by restriction)
<i>Sub-types:</i>	None

<b>Name</b>	DigestValueType
<b>Content</b>	<ul style="list-style-type: none"> <li>Base XSD Type: base64Binary</li> </ul>

### Diagram



### Schema Component Representation

```

<simpleType name="DigestValueType">
  <restriction base="base64Binary"/>
</simpleType>

```

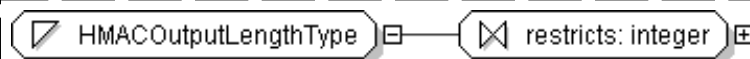
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## Simple Type: **HMACOutputLengthType**

<i>Super-types:</i>	integer < <b>HMACOutputLengthType</b> (by restriction)
<i>Sub-types:</i>	None

<b>Name</b>	HMACOutputLengthType
<b>Content</b>	<ul style="list-style-type: none"> <li>Base XSD Type: integer</li> </ul>

### Diagram



### Schema Component Representation

```

<simpleType name="HMACOutputLengthType">
  <restriction base="integer"/>
</simpleType>

```

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# Legend

Complex Type:

Schema Component Type

AusAddress

Schema Component Name

Super-types:	<a href="#">Address</a> < AusAddress (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">QLDAddress</a> (by restriction)</li></ul>

If this schema component is a type definition, its type hierarchy is shown in a gray-bordered box.

Name	AusAddress
Abstract	no

The table above displays the properties of this schema component.

## XML Instance Representation

```
<... country="Australia" >
<unitNo> string </unitNo> [0..1]
<houseNo> string </houseNo> [1]
<street> string </street> [1]
Start Choice [1]
<city> string </city> [1]
<town> string </town> [1]
End Choice
<state> AusStates </state> [1]
<postcode> string <<pattern = [1-9][0-9]{3}>> </postcode> [1]
</...>
```

The XML Instance Representation table above shows the schema component's content as an XML instance.

- The minimum and maximum occurrence of elements and attributes are provided in square brackets, e.g. [0..1].
- Model group information are shown in gray, e.g. Start Choice ... End Choice.
- For type derivations, the elements and attributes that have been added to or changed from the base type's content are shown in **bold**.
- If an element/attribute has a fixed value, the fixed value is shown in green, e.g. country="Australia".
- Otherwise, the type of the element/attribute is displayed.
  - If the element/attribute's type is in the schema, a link is provided to it.
  - For local simple type definitions, the constraints are displayed in angle brackets, e.g. <<pattern = [1-9][0-9]{3}>>.

## Schema Component Representation

```

<complexType name="AusAddress">
  <complexContent>
    <extension base="Address">
      <sequence>
        <element name="state" type="AusStates"/>
        <element name="postcode">
          <simpleType>
            <restriction base="string">
              <pattern value="[1-9][0-9]{3}"/>
            </restriction>
          </simpleType>
        </element>
      </sequence>
      <attribute name="country" type="string" fixed="Australia"/>
    </extension>
  </complexContent>
</complexType>

```

The Schema Component Representation table above displays the underlying XML representation of the schema component. (Annotations are not shown.)

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## Glossary

**Abstract** (Applies to complex type definitions and element declarations). An abstract element or complex type cannot be used to validate an element instance. If there is a reference to an abstract element, only element declarations that can substitute the abstract element can be used to validate the instance. For references to abstract type definitions, only derived types can be used.

**All Model Group** Child elements can be provided *in any order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-all>.

**Choice Model Group** *Only one* from the list of child elements and model groups can be provided in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-choice>.

**Collapse Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32). Then, collapse contiguous sequences of space characters into single space character, and remove leading and trailing space characters.

**Disallowed Substitutions** (Applies to element declarations). If *substitution* is specified, then [substitution group](#) members cannot be used in place of the given element declaration to validate element instances. If *derivation methods*, e.g. extension, restriction, are specified, then the given element declaration will not validate element instances that have types derived from the element declaration's type using the specified derivation methods. Normally, element instances can override their declaration's type by specifying an  `xsi:type`  attribute.

**Key Constraint** Like [Uniqueness Constraint](#), but additionally requires that the specified value(s) must be provided. See: [http://www.w3.org/TR/xmlschema-1/#cidentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cidentity-constraint_Definitions).

**Key Reference Constraint** Ensures that the specified value(s) must match value(s) from a [Key Constraint](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions) or [Uniqueness Constraint](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions). See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

**Model Group** Groups together element content, specifying the order in which the element content can occur and the number of times the group of element content may be repeated. See: [http://www.w3.org/TR/xmlschema-1/#Model\\_Groups](http://www.w3.org/TR/xmlschema-1/#Model_Groups).

**Nilable** (Applies to element declarations). If an element declaration is nilable, instances can use the `xsi:nil` attribute. The `xsi:nil` attribute is the boolean attribute, *nil*, from the <http://www.w3.org/2001/XMLSchema-instance> namespace. If an element instance has an `xsi:nil` attribute set to true, it can be left empty, even though its element declaration may have required content.

**Notation** A notation is used to identify the format of a piece of data. Values of elements and attributes that are of type, NOTATION, must come from the names of declared notations. See: [http://www.w3.org/TR/xmlschema-1/#cNotation\\_Declarations](http://www.w3.org/TR/xmlschema-1/#cNotation_Declarations).

**Preserve Whitespace Policy** Preserve whitespaces exactly as they appear in instances.

**Prohibited Derivations** (Applies to type definitions). Derivation methods that cannot be used to create sub-types from a given type definition.

**Prohibited Substitutions** (Applies to complex type definitions). Prevents sub-types that have been derived using the specified derivation methods from validating element instances in place of the given type definition.

**Replace Whitespace Policy** Replace tab, line feed, and carriage return characters with space character (Unicode character 32).

**Sequence Model Group** Child elements and model groups must be provided *in the specified order* in instances. See: <http://www.w3.org/TR/xmlschema-1/#element-sequence>.

**Substitution Group** Elements that are *members* of a substitution group can be used wherever the *head* element of the substitution group is referenced.

**Substitution Group Exclusions** (Applies to element declarations). Prohibits element declarations from nominating themselves as being able to substitute a given element declaration, if they have types that are derived from the original element's type using the specified derivation methods.

**Target Namespace** The target namespace identifies the namespace that components in this schema belongs to. If no target namespace is provided, then the schema components do not belong to any namespace.

**Uniqueness Constraint** Ensures uniqueness of an element/attribute value, or a combination of values, within a specified scope. See: [http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint\\_Definitions](http://www.w3.org/TR/xmlschema-1/#cIdentity-constraint_Definitions).

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