XML Schema Documentation

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Schema Document Properties

Target Namespace	**http://www.fpml.org/2007/FpML-4-4**
Version	$Revision: 2527 $
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.
Schema Composition	• This schema includes components from the following schema document(s): ○ fpml-eq-shared-4-4.xsd

Declared Namespaces

Prefix	Namespace
Default namespace	**http://www.fpml.org/2007/FpML-4-4**
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/2007/FpML-4-4**

Schema Component Representation

```
<xsd:schema nsPrefix="fpml" package="org.fpml" documentRoot="FpML" targetNamespace="http://
www.fpml.org/2007/FpML-4-4" version="$Revision: 2527 $"
attributeFormDefault="unqualified" elementFormDefault="qualified">
   <xsd:include schemaLocation="fpml-eq-shared-4-4.xsd"/>
   ...
</xsd:schema>
```

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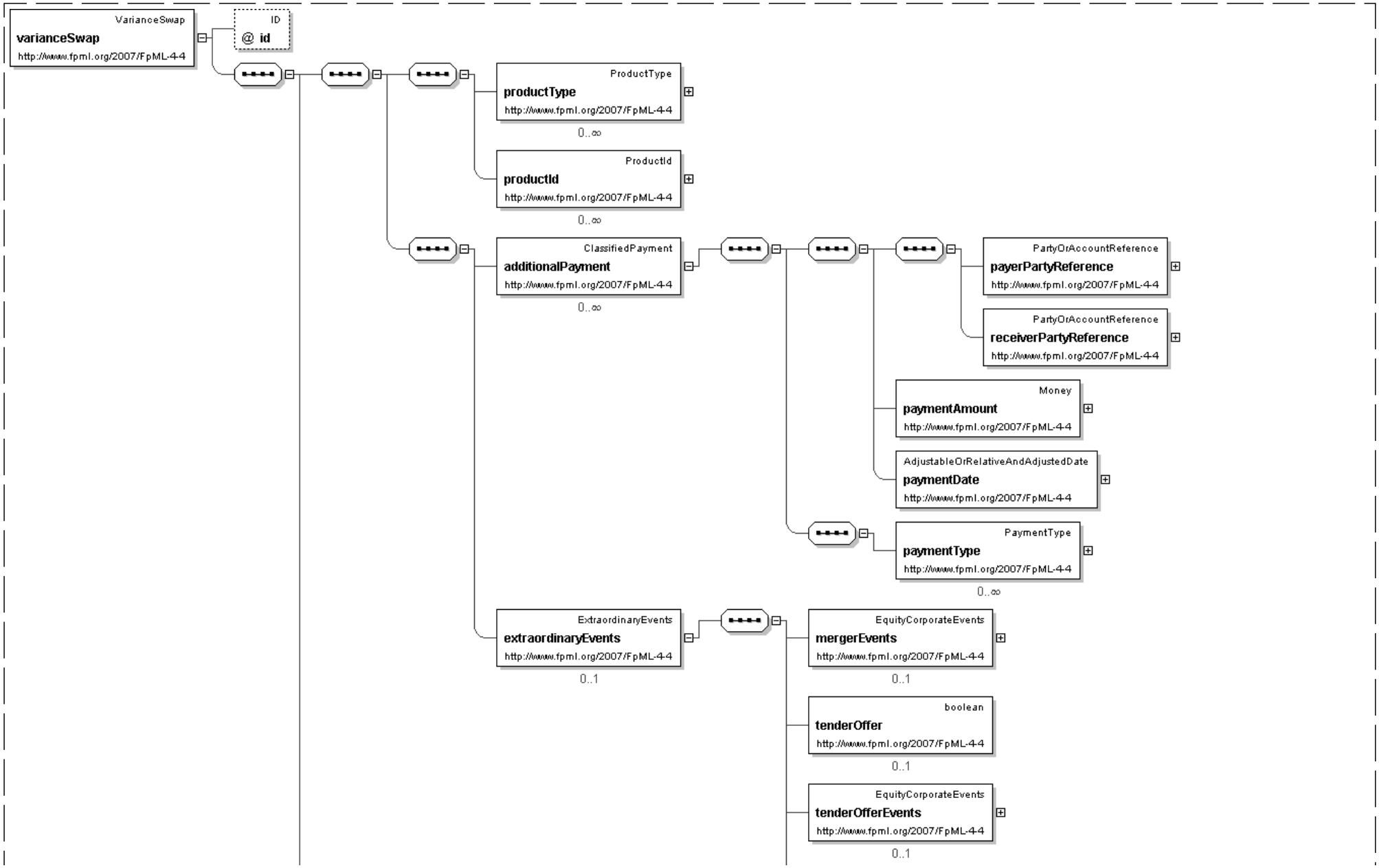
Global Declarations

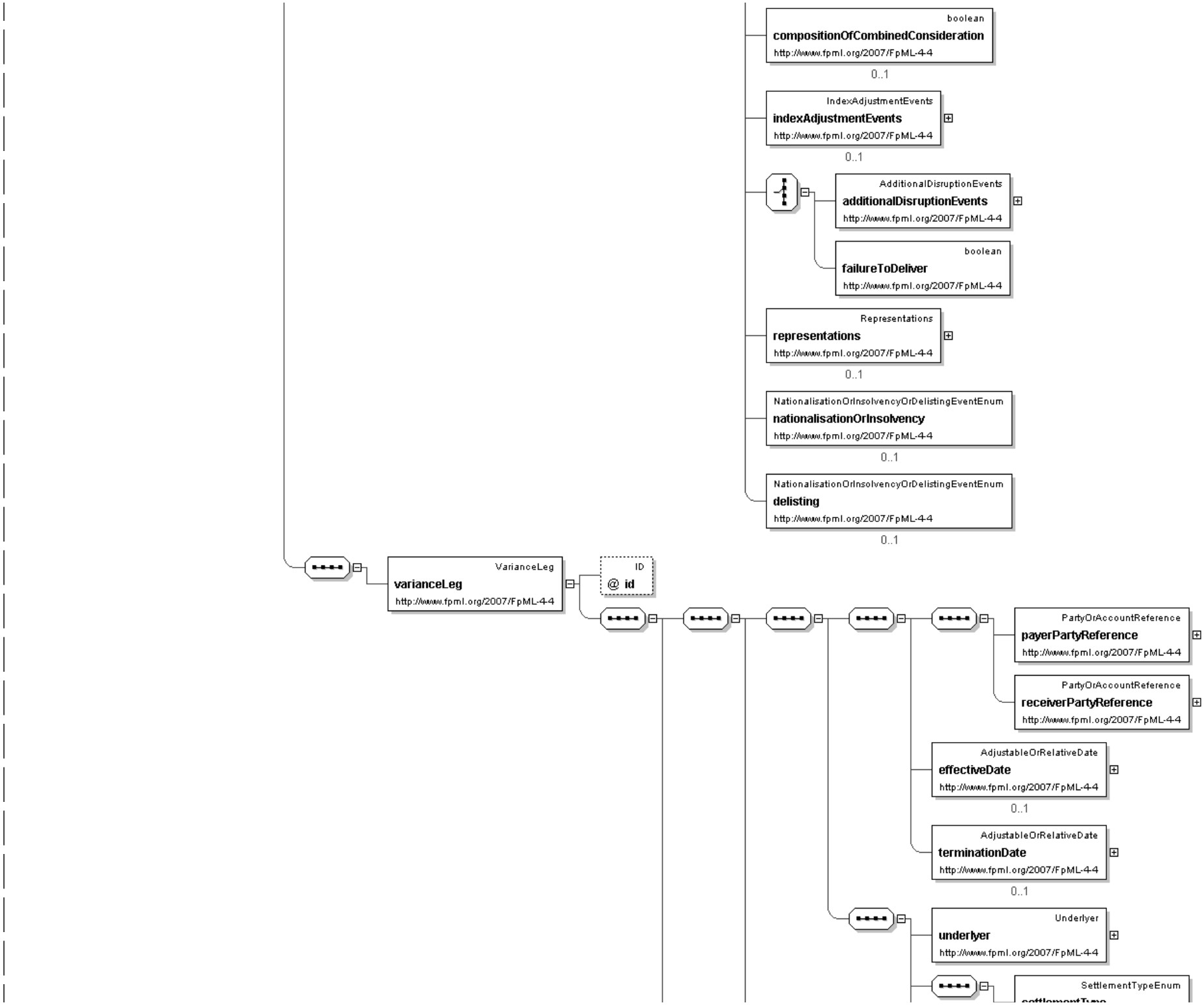
Element: varianceSwap

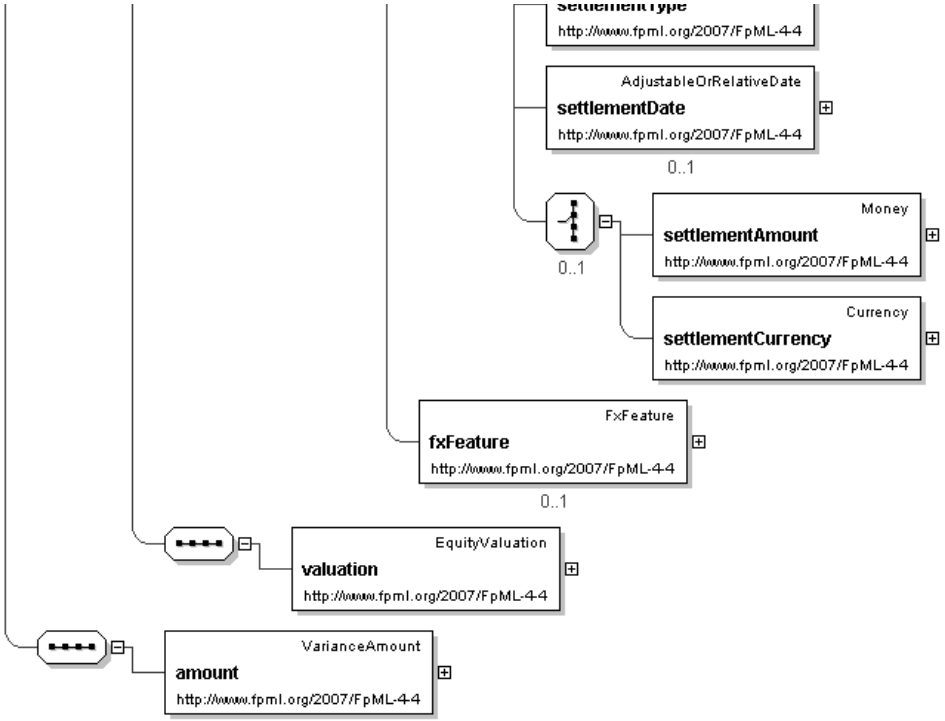
- *This element can be used wherever the following element is referenced:*
  - product

Name	varianceSwap
Type	VarianceSwap
Nillable	no
Abstract	no
Documentation	Specifies the structure of a variance swap.

Logical Diagram



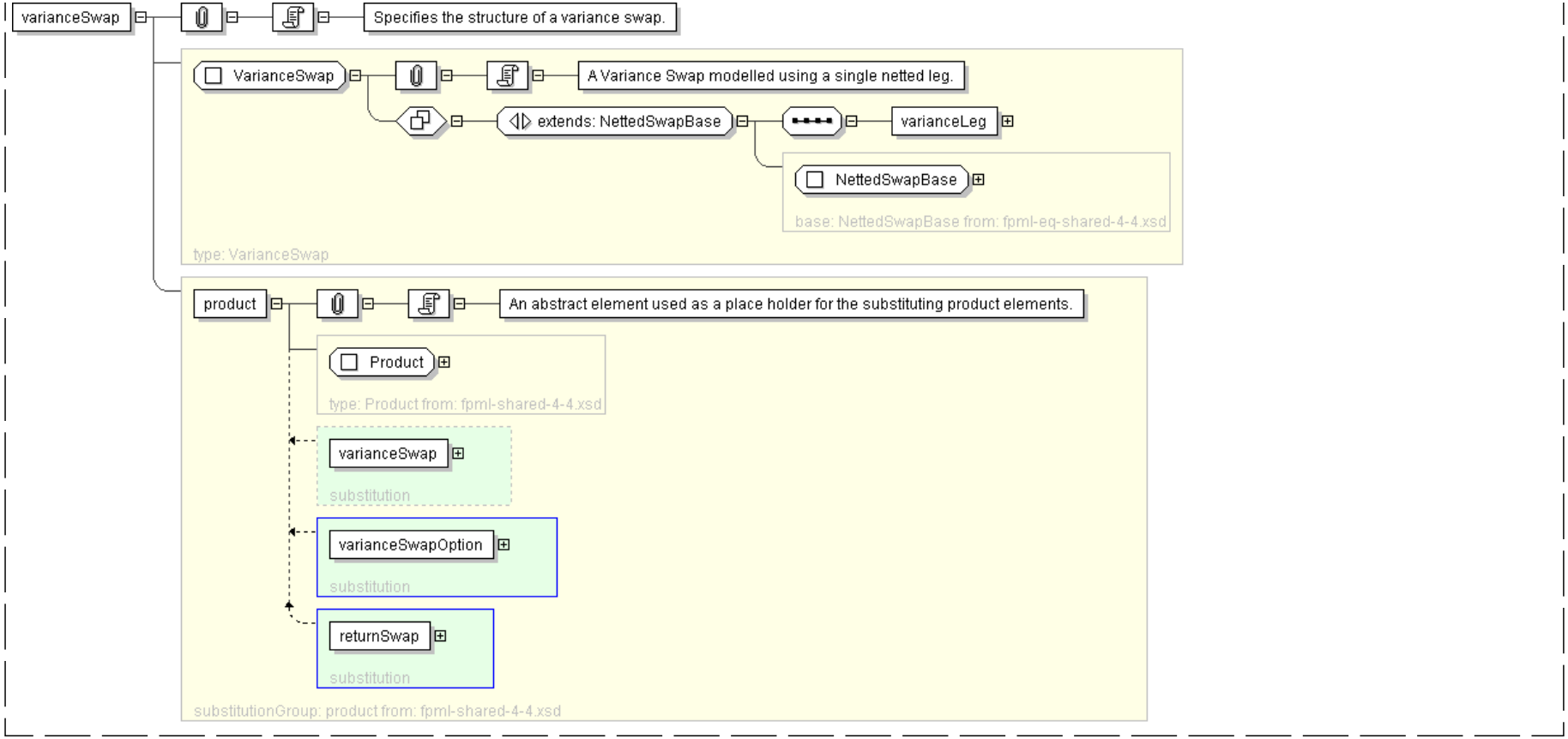

boolean
compositionOfCombinedConsideration
http://www.fpml.org/2007/FpML-4-4
0..1
IndexAdjustmentEvents
indexAdjustmentEvents
http://www.fpml.org/2007/FpML-4-4
0..1
AdditionalDisruptionEvents
additionalDisruptionEvents
http://www.fpml.org/2007/FpML-4-4
boolean
failureToDeliver
http://www.fpml.org/2007/FpML-4-4
Representations
representations
http://www.fpml.org/2007/FpML-4-4
0..1
NationalisationOrInsolvencyOrDelistingEventEnum
nationalisationOrInsolvency
http://www.fpml.org/2007/FpML-4-4
0..1
NationalisationOrInsolvencyOrDelistingEventEnum
delisting
http://www.fpml.org/2007/FpML-4-4
0..1
VarianceLeg
varianceLeg
http://www.fpml.org/2007/FpML-4-4
ID
@ id
PartyOrAccountReference
payerPartyReference
http://www.fpml.org/2007/FpML-4-4
PartyOrAccountReference
receiverPartyReference
http://www.fpml.org/2007/FpML-4-4
AdjustableOrRelativeDate
effectiveDate
http://www.fpml.org/2007/FpML-4-4
0..1
AdjustableOrRelativeDate
terminationDate
http://www.fpml.org/2007/FpML-4-4
0..1
Underlyer
underlyer
http://www.fpml.org/2007/FpML-4-4
SettlementTypeEnum



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"/>
```

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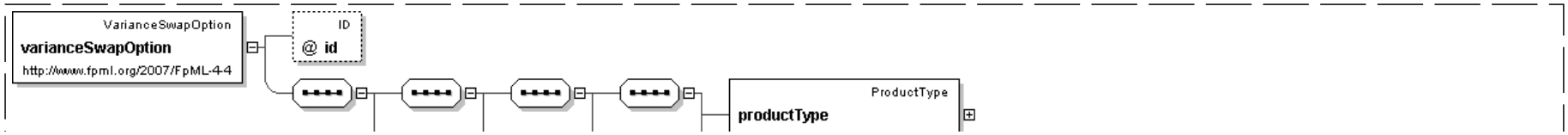
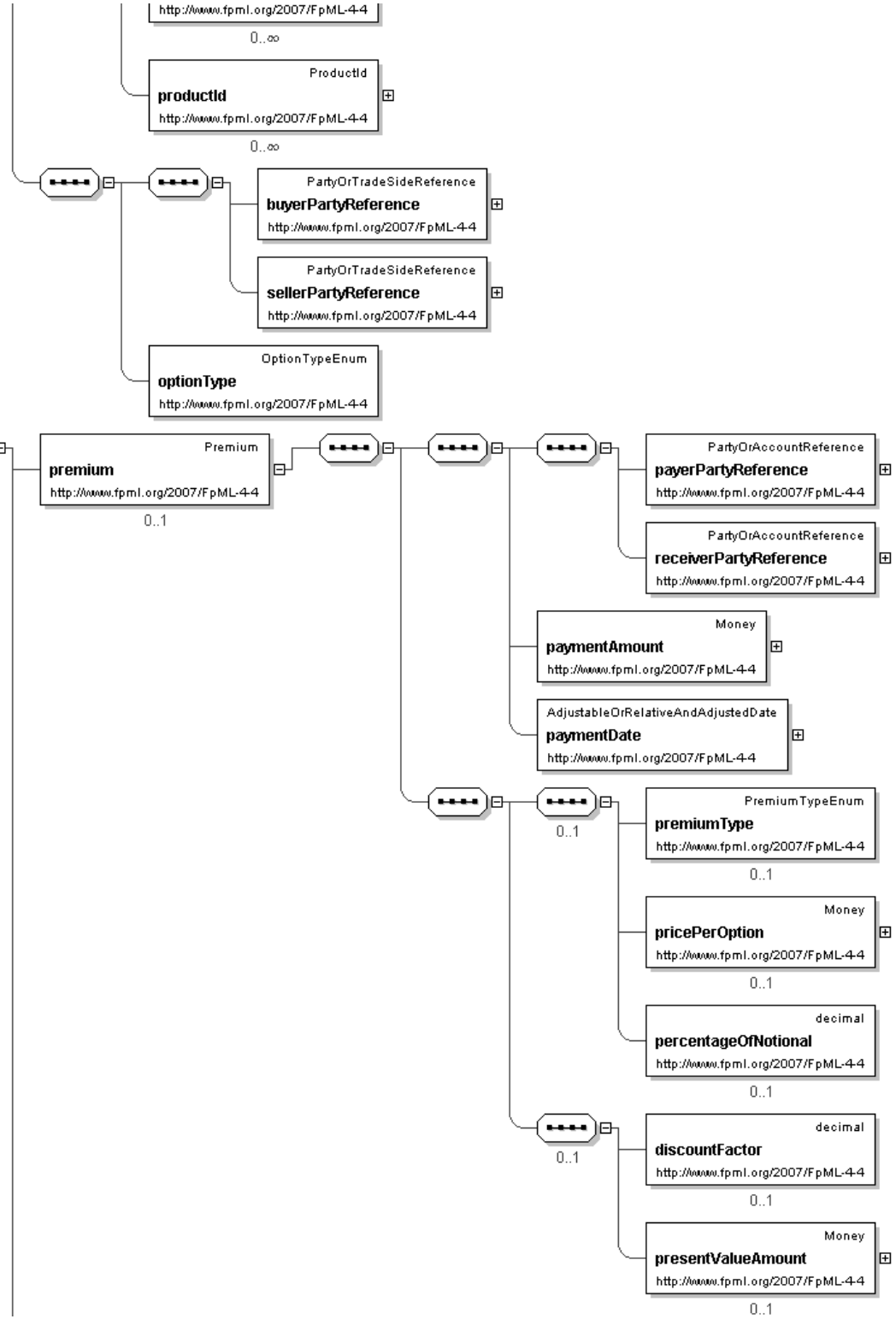
Element: varianceSwapOption

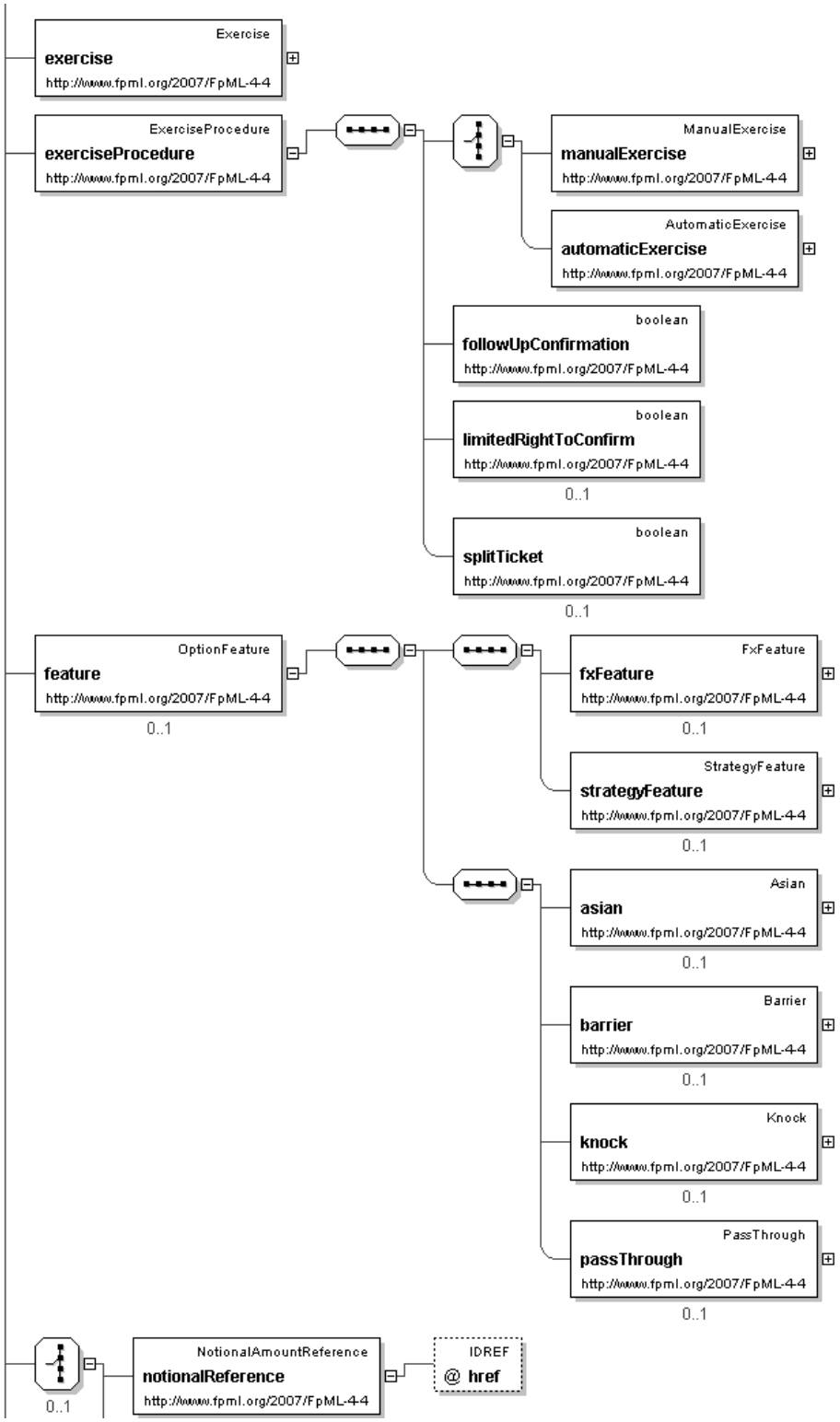
- *This element can be used wherever the following element is referenced:*
  - product

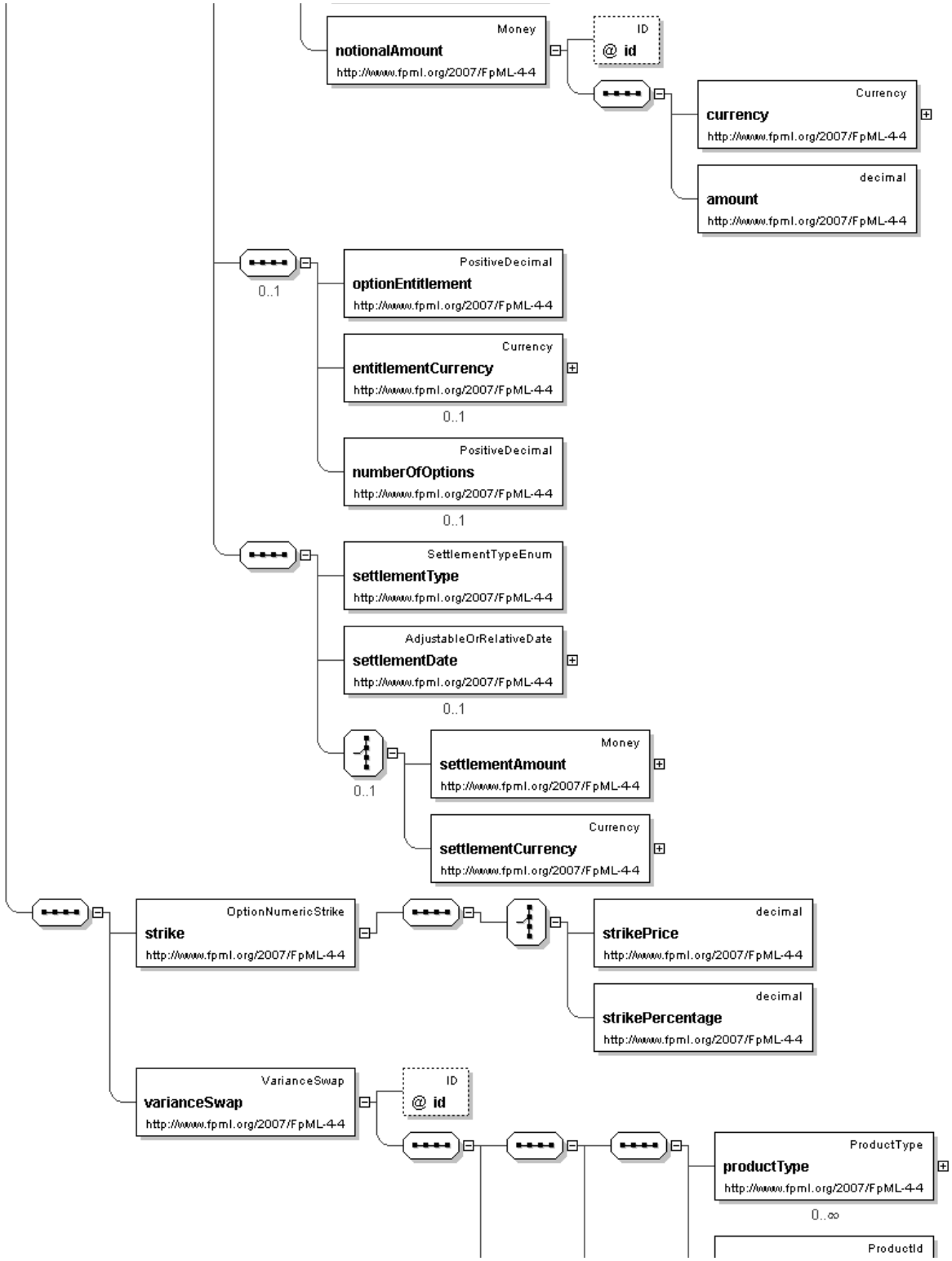
Name	varianceSwapOption
Type	VarianceSwapOption
Nillable	no
Abstract	no
Documentation	Specifies the structure of a variance swap option.

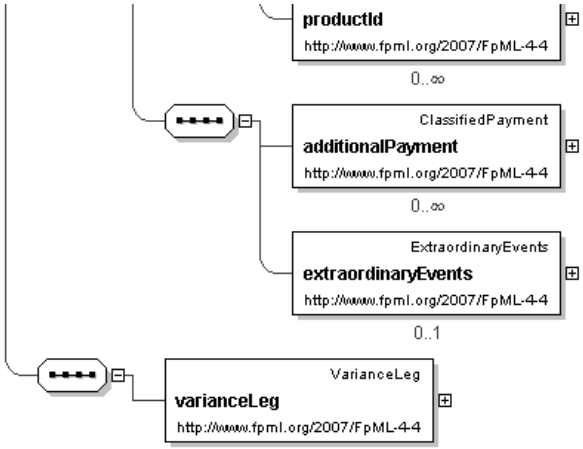
Logical Diagram




http://www.fpml.org/2007/FpML-4-4
0..∞
ProductId
productId
http://www.fpml.org/2007/FpML-4-4
0..∞
PartyOrTradeSideReference
buyerPartyReference
http://www.fpml.org/2007/FpML-4-4
PartyOrTradeSideReference
sellerPartyReference
http://www.fpml.org/2007/FpML-4-4
OptionTypeEnum
optionType
http://www.fpml.org/2007/FpML-4-4
Premium
premium
http://www.fpml.org/2007/FpML-4-4
0..1
PartyOrAccountReference
payerPartyReference
http://www.fpml.org/2007/FpML-4-4
PartyOrAccountReference
receiverPartyReference
http://www.fpml.org/2007/FpML-4-4
Money
paymentAmount
http://www.fpml.org/2007/FpML-4-4
AdjustableOrRelativeAndAdjustedDate
paymentDate
http://www.fpml.org/2007/FpML-4-4
0..1
PremiumTypeEnum
premiumType
http://www.fpml.org/2007/FpML-4-4
0..1
Money
pricePerOption
http://www.fpml.org/2007/FpML-4-4
0..1
decimal
percentageOfNotional
http://www.fpml.org/2007/FpML-4-4
0..1
0..1
decimal
discountFactor
http://www.fpml.org/2007/FpML-4-4
0..1
Money
presentValueAmount
http://www.fpml.org/2007/FpML-4-4
0..1


Exercise
exercise
http://www.fpml.org/2007/FpML-4-4
ExerciseProcedure
exerciseProcedure
http://www.fpml.org/2007/FpML-4-4
ManualExercise
manualExercise
http://www.fpml.org/2007/FpML-4-4
AutomaticExercise
automaticExercise
http://www.fpml.org/2007/FpML-4-4
boolean
followUpConfirmation
http://www.fpml.org/2007/FpML-4-4
boolean
limitedRightToConfirm
http://www.fpml.org/2007/FpML-4-4
0..1
boolean
splitTicket
http://www.fpml.org/2007/FpML-4-4
0..1
OptionFeature
feature
http://www.fpml.org/2007/FpML-4-4
0..1
FxFeature
fxFeature
http://www.fpml.org/2007/FpML-4-4
0..1
StrategyFeature
strategyFeature
http://www.fpml.org/2007/FpML-4-4
0..1
Asian
asian
http://www.fpml.org/2007/FpML-4-4
0..1
Barrier
barrier
http://www.fpml.org/2007/FpML-4-4
0..1
Knock
knock
http://www.fpml.org/2007/FpML-4-4
0..1
PassThrough
passThrough
http://www.fpml.org/2007/FpML-4-4
0..1
0..1
NotionalAmountReference
notionalReference
http://www.fpml.org/2007/FpML-4-4
IDREF
@ href


Money
notionalAmount
http://www.fpml.org/2007/FpML-4-4
ID
@ id
Currency
currency
http://www.fpml.org/2007/FpML-4-4
decimal
amount
http://www.fpml.org/2007/FpML-4-4
0..1
PositiveDecimal
optionEntitlement
http://www.fpml.org/2007/FpML-4-4
Currency
entitlementCurrency
http://www.fpml.org/2007/FpML-4-4
0..1
PositiveDecimal
numberOfOptions
http://www.fpml.org/2007/FpML-4-4
0..1
SettlementTypeEnum
settlementType
http://www.fpml.org/2007/FpML-4-4
AdjustableOrRelativeDate
settlementDate
http://www.fpml.org/2007/FpML-4-4
0..1
0..1
Money
settlementAmount
http://www.fpml.org/2007/FpML-4-4
Currency
settlementCurrency
http://www.fpml.org/2007/FpML-4-4
OptionNumericStrike
strike
http://www.fpml.org/2007/FpML-4-4
decimal
strikePrice
http://www.fpml.org/2007/FpML-4-4
decimal
strikePercentage
http://www.fpml.org/2007/FpML-4-4
VarianceSwap
varianceSwap
http://www.fpml.org/2007/FpML-4-4
ID
@ id
ProductType
productType
http://www.fpml.org/2007/FpML-4-4
0..∞
ProductId



XML Instance Representation

```
<varianceSwapOption
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]
```

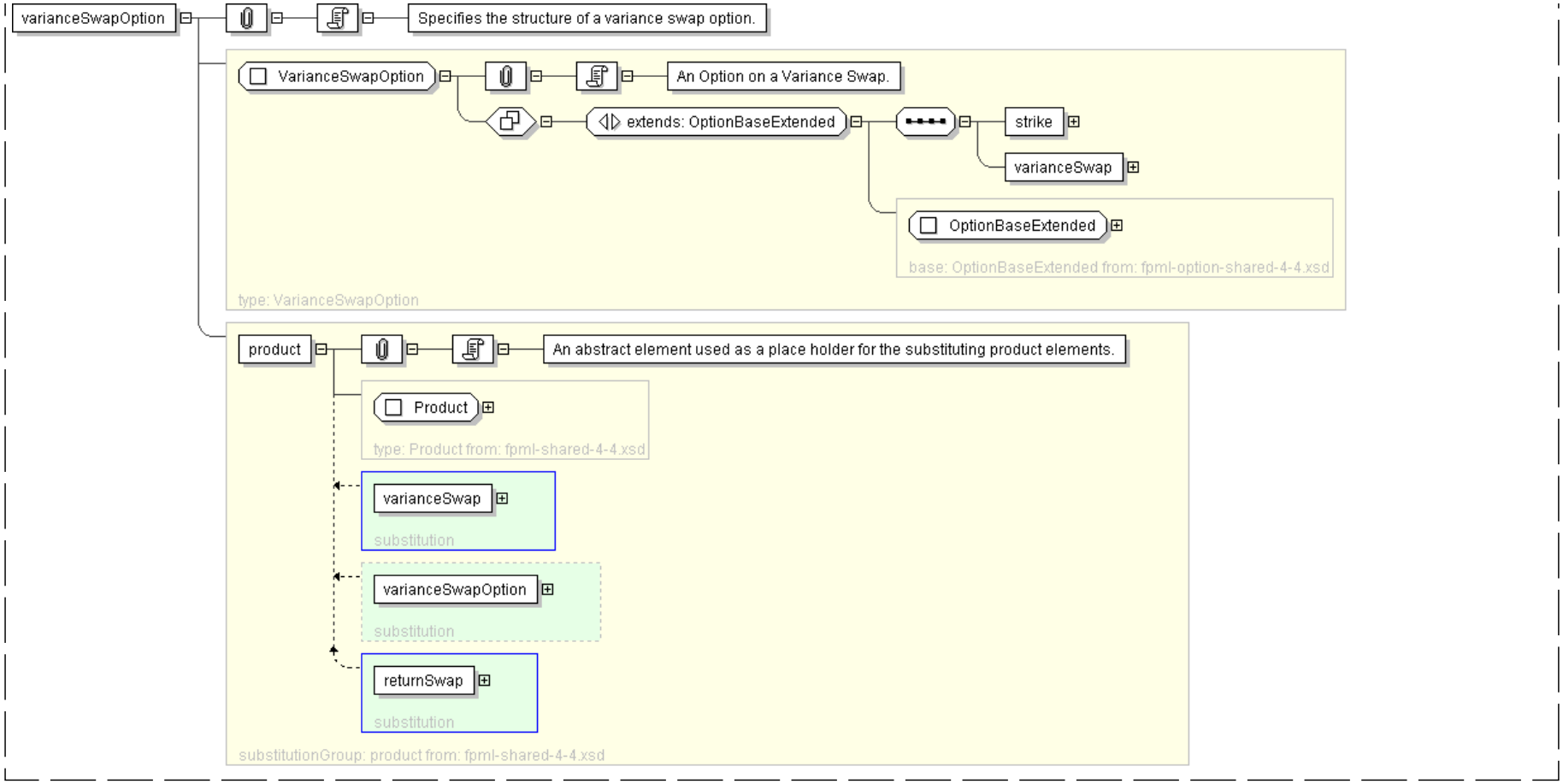
'An Option feature such as quanto, asian, barrier, knock'

```
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> [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> OptionNumericStrike </strike> [1]
   'Strike of the Variance Swap Option.'

   <varianceSwap> VarianceSwap </varianceSwap> [1]
   'Variance Swap which is the underlyer of this Option.'

</varianceSwapOption>
```

Diagram



Schema Component Representation

```
<xsd:element name="varianceSwapOption" type=" VarianceSwapOption " substitutionGroup="product"/>
```

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Global Definitions

Complex Type: VarianceAmount

Super-types:	CalculatedAmount < **VarianceAmount** (by extension)
Sub-types:	None

Name	VarianceAmount
Used by (from the same schema document)	Complex Type **VarianceLeg**
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]

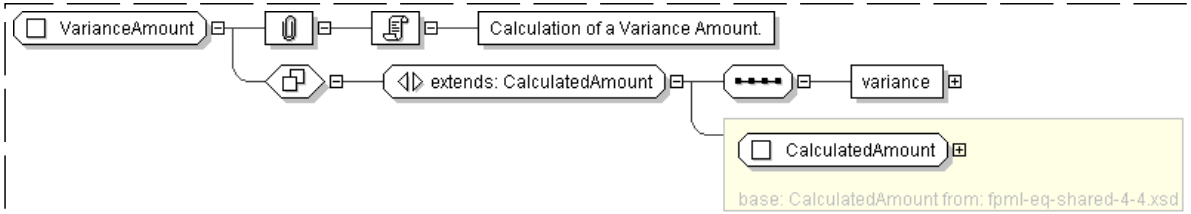
'Represents the European Master Confirmation value of \'All Dividends\' which, when applicable, signifies that, for a given Ex-Date, the daily observed Share Price for that day is adjusted (reduced) by the cash dividend and/or the cash value of any non cash dividend per Share (including Extraordinary 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>
```

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Complex Type: VarianceLeg

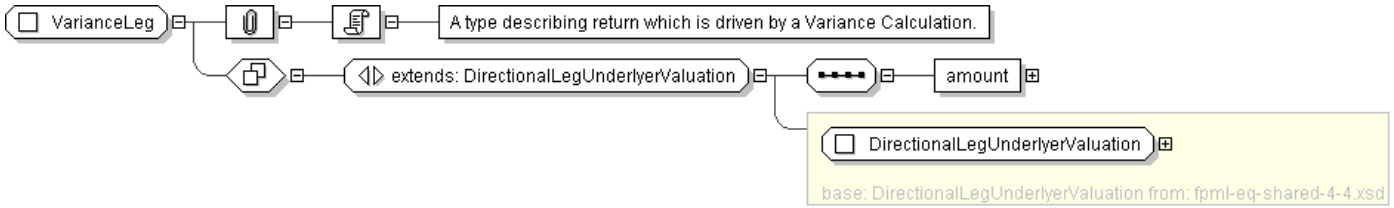
Super-types:	DirectionalLegUnderlyerValuation < **VarianceLeg** (by extension)
Sub-types:	None

Name	VarianceLeg
Used by (from the same schema document)	Complex Type **VarianceSwap**
Abstract	no
Documentation	A type describing return which is driven by a Variance Calculation.

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.'

   <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> [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> 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=" DirectionalLegUnderlyerValuation ">
         <xsd:sequence>
            <xsd:element name="amount" type=" VarianceAmount "/>
         </xsd:sequence>
      </xsd:extension>
   </xsd:complexContent>
</xsd:complexType>
```

top

Complex Type: VarianceSwap

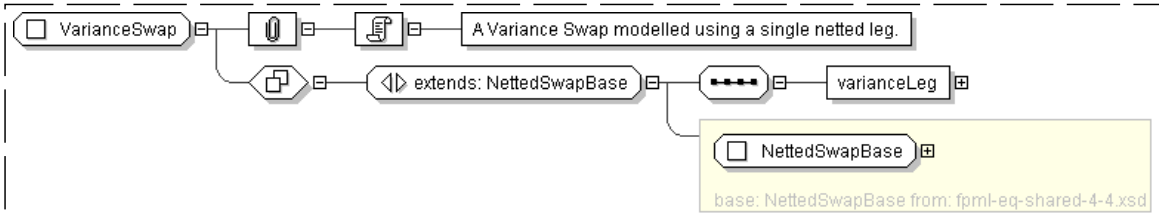
Super-types:	NettedSwapBase < **VarianceSwap** (by extension)
Sub-types:	None

Name	VarianceSwap
Used by (from the same schema document)	Complex Type **VarianceSwapOption** , Element **varianceSwap**
Abstract	no
Documentation	A Variance 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.'

   <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 "/>
         </xsd:sequence>
      </xsd:extension>
   </xsd:complexContent>
</xsd:complexType>
```

top

Complex Type: VarianceSwapOption

Super-types:	OptionBaseExtended < **VarianceSwapOption** (by extension)
Sub-types:	None

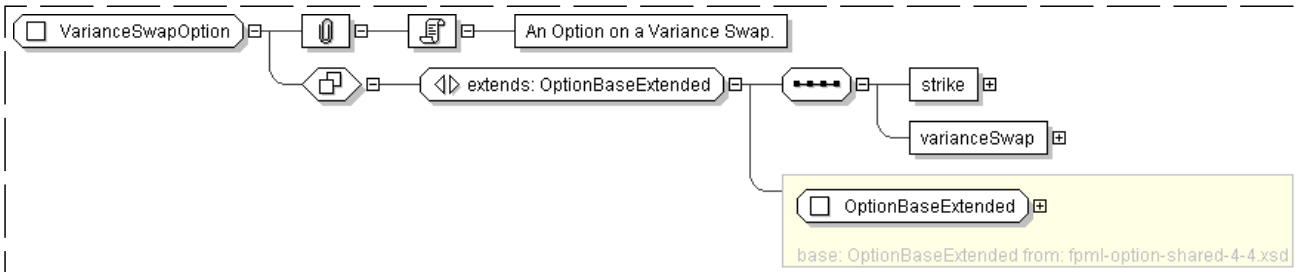
Name	VarianceSwapOption
Used by (from the same schema document)	Element **varianceSwapOption**
Abstract	no
Documentation	An Option on a Variance Swap.

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.'

   <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> [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> OptionNumericStrike </strike> [1]
   'Strike of the Variance Swap Option.'

   <varianceSwap> VarianceSwap </varianceSwap> [1]
   'Variance Swap which is the underlyer of this Option.'

</...>
```

Diagram



Schema Component Representation

```
<xsd:complexType name="VarianceSwapOption">
   <xsd:complexContent>
```

```
      <xsd:extension base=" OptionBaseExtended ">
         <xsd:sequence>
            <xsd:element name="strike" type=" OptionNumericStrike "/>
            <xsd:element name="varianceSwap" type=" VarianceSwap "/>
         </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/#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.

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.

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.

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.

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