FpML - Variance Swaps Component Definitions

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1 Global Complex Types

1.1 VarianceAmount

1.1.1 Description:

Calculation of a Variance Amount.

1.1.2 Contents:

Inherited element(s): (This definition inherits the content defined by the type CalculatedAmount)

- An abstract base class for all calculated money amounts, which are in the currency of the cash multiplier of the calculation.

variance (exactly one occurrence; of the type Variance) Specifies Variance.

1.1.3 Used by:

- Complex type: VarianceLeg

1.1.4 Derived Types:

1.1.5 Figure:

1.1.6 Schema Fragment:

```
<xsd:complexType name="VarianceAmount">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      Calculation of a Variance Amount.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CalculatedAmount">
      <xsd:sequence>
        <xsd:element name="variance" type="Variance">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              Specifies Variance.
            </xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

1.2 VarianceLeg

1.2.1 Description:

A type describing return which is driven by a Variance Calculation.

1.2.2 Contents:

Inherited element(s): (This definition inherits the content defined by the type DirectionalLegUnderlyerValuation)

- 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.

amount (exactly one occurrence; of the type VarianceAmount) 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.

1.2.3 Used by:

- Complex type: VarianceSwap

1.2.4 Derived Types:

1.2.5 Figure:

1.2.6 Schema Fragment:

```
<xsd:complexType name="VarianceLeg">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      A type describing return which is driven by a Variance
      Calculation.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="DirectionalLegUnderlyerValuation">
      <xsd:sequence>
        <xsd:element name="amount" type="VarianceAmount">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              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.
            </xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

1.3 VarianceSwap

1.3.1 Description:

A Variance Swap modelled using a single netted leg.

1.3.2 Contents:

Inherited element(s): (This definition inherits the content defined by the type NettedSwapBase)

- An abstract base class for all swap types which have a single netted leg, such as Variance Swaps, and Correlation Swaps.

varianceLeg (exactly one occurrence; of the type VarianceLeg) Variance Leg.

1.3.3 Used by:

- Element: varianceSwap

1.3.4 Derived Types:

1.3.5 Figure:

1.3.6 Schema Fragment:

```
<xsd:complexType name="VarianceSwap">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      A Variance Swap modelled using a single netted leg.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="NettedSwapBase">
      <xsd:sequence>
        <xsd:element name="varianceLeg" type="VarianceLeg">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              Variance Leg.
            </xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

2 Global Elements

2.1 varianceSwap

2.1.1 Description:

Specifies the structure of a variance swap.

2.1.2 Contents:

Element varianceSwap is defined by the complex type VarianceSwap

2.1.3 Used by:

2.1.4 Substituted by:

2.1.5 Figure:

2.1.6 Schema Fragment:

```
<xsd:element name="varianceSwap" type="VarianceSwap" substitutionGroup="product">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      Specifies the structure of a variance swap.
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

3 Schema listing

```
<xsd:schema ecore:nsPrefix="fpml" ecore:package="org.fpml" ecore:documentRoot="FpML" targetName
  <xsd:include schemaLocation="fpml-eq-shared-4-3.xsd"/>
  <xsd:complexType name="VarianceAmount">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        Calculation of a Variance Amount.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="CalculatedAmount">
        <xsd:sequence>
          <xsd:element name="variance" type="Variance">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                Specifies Variance.
              </xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:complexType name="VarianceLeg">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        A type describing return which is driven by a Variance
        Calculation.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="DirectionalLegUnderlyerValuation">
        <xsd:sequence>
          <xsd:element name="amount" type="VarianceAmount">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                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.
              </xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:complexType name="VarianceSwap">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        A Variance Swap modelled using a single netted leg.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="NettedSwapBase">
        <xsd:sequence>
          <xsd:element name="varianceLeg" type="VarianceLeg">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                Variance Leg.
              </xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="varianceSwap" type="VarianceSwap" substitutionGroup="product">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        Specifies the structure of a variance swap.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
</xsd:schema>
```