



**Financial products Markup Language**

## **FpML - Correlation Swaps Component Definitions**

## ***Version: 4.4***

### **This Version:**

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### **Document built**

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## ***1 Global Complex Types***

## 1.1 CorrelationAmount

### 1.1.1 Description:

Correlation 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.

**correlation** (exactly one occurrence; of the type Correlation) Specifies Correlation.

### 1.1.3 Used by:

- Complex type: CorrelationLeg

### 1.1.4 Derived Types:

### 1.1.5 Figure:

### 1.1.6 Schema Fragment:

```
<xsd:complexType name="CorrelationAmount">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      Correlation Amount.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="CalculatedAmount">
      <xsd:sequence>
        <xsd:element name="correlation" type="Correlation">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              Specifies Correlation.
            </xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

## 1.2 CorrelationLeg

### 1.2.1 Description:

A type describing return which is driven by a Correlation 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 CorrelationAmount) 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.

### 1.2.3 Used by:

- Complex type: CorrelationSwap

### 1.2.4 Derived Types:

### 1.2.5 Figure:

### 1.2.6 Schema Fragment:

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

## 1.3 CorrelationSwap

### 1.3.1 Description:

A Correlation 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.

**correlationLeg** (exactly one occurrence; of the type CorrelationLeg) Correlation Leg. Correlation Buyer is deemed to be the Equity Amount Receiver, Correlation Seller is deemed to be the Equity Amount Payer.

### 1.3.3 Used by:

- Element: correlationSwap

### 1.3.4 Derived Types:

### 1.3.5 Figure:

### 1.3.6 Schema Fragment:

```
<xsd:complexType name="CorrelationSwap">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      A Correlation Swap modelled using a single netted leg.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexContent>
    <xsd:extension base="NettedSwapBase">
      <xsd:sequence>
        <xsd:element name="correlationLeg" type="CorrelationLeg">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              Correlation Leg. Correlation Buyer is deemed to be the
              Equity Amount Receiver, Correlation Seller is deemed to
              be the Equity Amount Payer.
            </xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```



## ***2 Global Elements***

## **2.1 correlationSwap**

### **2.1.1 Description:**

Specifies the structure of a correlation swap.

### **2.1.2 Contents:**

Element correlationSwap is defined by the complex type CorrelationSwap

### **2.1.3 Used by:**

### **2.1.4 Substituted by:**

### **2.1.5 Figure:**

### **2.1.6 Schema Fragment:**

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

### 3 Schema listing

```
<xsd:schema ecore:nsPrefix="fpml" ecore:package="org.fpml" ecore:documentRoot="FpML" targetNameSpace="org.fpml">
  <xsd:include schemaLocation="fpml-eq-shared-4-4.xsd"/>
  <xsd:complexType name="CorrelationAmount">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        Correlation Amount.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="CalculatedAmount">
        <xsd:sequence>
          <xsd:element name="correlation" type="Correlation">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                Specifies Correlation.
              </xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:complexType name="CorrelationLeg">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        A type describing return which is driven by a Correlation
        calculation.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="DirectionalLegUnderlyerValuation">
        <xsd:sequence>
          <xsd:element name="amount" type="CorrelationAmount">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                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.
              </xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:complexType name="CorrelationSwap">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        A Correlation Swap modelled using a single netted leg.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
      <xsd:extension base="NettedSwapBase">
        <xsd:sequence>
          <xsd:element name="correlationLeg" type="CorrelationLeg">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                Correlation Leg. Correlation Buyer is deemed to be the
                Equity Amount Receiver, Correlation Seller is deemed to
                be the Equity Amount Payer.
              </xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
  <xsd:element name="correlationSwap" type="CorrelationSwap" substitutionGroup="product">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        Specifies the structure of a correlation swap.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
</xsd:schema>
```