

Bloomberg L.P. and

Global Technical Committee

ESMA RTS 2 Segmentation Criteria and Extensions to Option Type and Swap Subtype

October 19, 2017

Revision 0.3

Proposal Status: Public Comment

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# Document History

| **Revision** | **Date** | **Author** | **Revision Comments** |
| --- | --- | --- | --- |
| 0.1 | October 19, 2017 | Brook Path Partners, Inc. | • Initial version with complete mapping for RTS 2 Annex III tables. |
| 0.2 | October 19, 2017 | Brook Path Partners, Inc. | • Added OptPayoutType(1482) and ReturnTritter(tbd) to the proposal |
| 0.3 | October 19, 2017 | Brook Path Partners, Inc. | • Corrected header formatting and other minor style issues• Removed abbreviation entries for OptPayoutType(1482)• Added missing FIXML abbreviations for ReturnTrigger fields• In segmentation tables replaced "—" with "Not applicable" and replaced "Assessed by application" with new entries in <AttrbGrp> |
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The above document history section, including date, author, and comments, is required to track editing changes to the document. List revisions in **ascending order**. Please insert additional rows in the table as needed.

Template version information:

r2: 2010-11-13 Revised to support abbreviations, inlined component references

r3: 2011-12-02 Revised to add additional usage clarification

r3.1: 2013-01-04 Revised Copyright year, changed template to Office 2013 .docx version, updated font to Calibri for cleaner look. Added additional template usage clarification.

R3.2 2016-05-23 – revised the copyright date, corrected document references and replaced the FIX logo with the most current graphic.

r3.2 2017-05-18 - revised copyright date

# Introduction

This gap analysis seeks to fill in the gap to the FIX Protocol Application Layer standard to meet the requirements for ESMA RTS 2 Annex III Sections 2–11 Segmentation Criteria. ESMA RTS 2 specifically addresses the data standards and formats for financial instrument transparency reference data.

The following documents are references and input to this gap analysis:

1. ESMA RTS documents reference via this link: <http://ec.europa.eu/finance/securities/docs/isd/mifid/its-rts-overview-table_en.pdf>

Specifically RTS 2

1. MiFID II: Directive 2014/65/EU of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments and amending Directive 2002/92/EC and Directive 2011/61/EU <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1472752877422&uri=CELEX:32014L0065>
2. MiFIR: Regulation (EU) No 600/2014 of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments and amending Regulation (EU) No 648/2012. <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014R0600>
3. MiFID II: Commission Delegated Regulation (EU) 2017/565 of April 25, 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council as regards organizational requirements and operating conditions for investment firms and defined terms for the purposes of that Directive <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1507818996026&uri=CELEX:32017R0565>.

## Summary of Proposed Changes

### RTS 2 Annex III – Liquidity assessment, LIS and SSTI thresholds for non-equity financial instrument

RTS 2 Annex III Sections 2–11 present a series of tables that define the requirements for segmenting securities for liquidity assessment and LIS and SSTI thresholds for non-equity financial instruments. We propose to satisfy ESMA's requirements by adding new fields and enumerations and elaborations to existing fields in FIX based on row-by-row mapping of the tables. This proposal includes the tables in Sections 2.1.1 through 2.1.11 adding FIX mapping in the right-hand column.

### Receiver versus Payer Swaption terminology

In RTS 23 Annex I Table 3 Row 30 reference is made to a "receiver" swaption versus a "payer" swaption. In other words, swaptions give the buyer of the option the right to enter into the swap as either the "receiver" or the "payer" and there is no consideration as to whether the option type is "put" or "call". We have learned that market terminology for Swaptions in the context of MiFID II apply "put", "call" and "chooser" in very specific ways and we propose to elaborate that terminology in the standard.

### Notional Schedule identification

The updated CFI standard calls for specific values for IRS Notional Schedule and it too is identified as an input to the current ANNA DSB requirements. The attribute is identified by ESMA as a factor in determining whether an IRS falls under their trading obligation. We propose to introduce new values to the existing SwapSubClass(1575) to map directly to the CFI values.

### Return or Payout Trigger and Valuation Method

Another detail of the updated CFI standard calls for Return or Payout Trigger values for swaps and forwards and Valuation Method or Trigger values for Options. While FIX currently supports these attributes indirectly through a number of fields - particularly the ComplexEventsGrp component - it seems appropriate to provide a more direct mapping to the CFI values. We propose to introduce new values to the existing OptPayoutType(1482) field for Options and to introduce a new field ReturnTrigger(tbd) for Swaps and Forwards.

# Business Requirements

## RTS 2 Annex III – Liquidity assessment, LIS and SSTI thresholds for non-equity financial instrument

Sections 2.1.1 – 2.1.11 below identify the data elements required for RTS 2 Annex III. The first 2 columns are defined by ESMS while the last column is the proposed FIX mapping. The mapped element may be derived from the security master or may be required on trade submission. When noted the attribute may instead be assessed by the application.

### Bonds (all bond types except ETCs and ETNs) – Segmentation Criteria

RTS 2 Annex III Section 2 Table 2.2 identifies Segmentation Criteria for this group of securities as follows:

| **Bond Type** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Sovereign Bond**Instrument/ Product(460)=6 (Government) | Issuance size | Instrument/ TotalIssuedAmount(1947) |
| **Other Public Bond**Instrument/ Product(460)=1 (Agency) and 11 (Municipal) | Issuance size | Instrument/ TotalIssuedAmount(1947) |
| **Convertible Bond**Instrument/ Product(460)=3 (Corporate) SecurityType(167)=CB | Issuance size | Instrument/ TotalIssuedAmount(1947) |
| **Covered Bond**Instrument/ Product(460)=10 (Mortgage) | Issuance size | Instrument/ TotalIssuedAmount(1947) |
| **Corporate Bond**Instrument/ Product(460)=3 (Corporate) SecurityType(167)=values except CB | Issuance size | Instrument/ TotalIssuedAmount(1947) |
| **Other Bond**Instrument/ Product(460)=8 (Loan), 9 (Money Market), 13 (Financing) | *"A bond that does not belong to any of the above bond types is considered not to have a liquid market."* | *Not applicable* |

### Bonds (ETC and ETN type) – Segmentation Criteria

RTS 2 Annex III Section 2 Table 2.4 identifies Segmentation Criteria for this group of securities as follows:

| **Bond Type** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Exchange Traded Commodities (ETCs)** Instrument/ Product(460)=2 (Commodity) SecurityType(167)=ETC | Issuance size | Instrument/ TotalIssuedAmount(1947) |
| **Exchange Traded Notes (ETNs)** Instrument/ Product(460)=12 (Other) SecurityType(167)=ETN | Issuance size | Instrument/ TotalIssuedAmount(1947) |

### Structured Finance Products – Segmentation Criteria

RTS 2 Annex III Section 3 Table 3.1 identifies Segmentation Criteria for this group of securities as follows:

| **Security Type** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Structured Finance Products**Instrument/ Product(460)=13 (Financing) SecurityType(167)=SFP | Average daily notional amount | InstrumentExtension/AttrbGrp/ InstrAttribType(871)  <tbd> = Average daily notional amount InstrAttribValue(872) |
| Average daily number of trades | InstrumentExtension/AttrbGrp/ InstrAttribType(871)  <tbd> = Average daily number of trades InstrAttribValue(872) |

### Securitised Derivatives – Segmentation Criteria

RTS 2 Annex III Section 4 Table 4.1 identifies Segmentation Criteria for this group of securities as follows:

| **Security Type** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Securitised Derivatives**Instrument/ Product(460)=12 (Other) SecurityType(167)=SECDERIV | *"All securitized derivatives are considered to have a liquid market"* | *Not applicable* |

### Interest Rate Derivatives – Segmentation Criteria

RTS 2 Annex III Section 5 Table 5.1 identifies Segmentation Criteria for this group of securities as follows:

| **Sub-Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Bond futures/forwards**Instrument/ SecurityType(167)  FUT = Future  FWD = Forward AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  BNDF = Bond Futures | Issue of Underlying | UnderlyingInstrument/ UnderlyingIssuer(306) |
| Term of the underlying deliverable bond Short Term: 1 yr - 4 yr Medium Term: 4 yr - 8 yr Long Term: 8 yr - 15 yr Ultra Long Term >15 yr | *Difference between trade date and underlying maturity date:*UnderlyingInstrument/ UnderlyingMaturityDate(542) |
| Time to Maturity bucket of the future/forward 0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Bond options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  BOND = Bond | Underlying bond or underlying bond future or forward  | UnderlyingInstrument/ UnderlyingIssuer(306) |
| Time to maturity bucket of the option  0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Interest Rate futures and FRA**Instrument/ SecurityType(167)  FUT = Future  FRA = Forward Rate Agreement AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  IFUT = Interest rate Futures-FRA | Underlying interest rate | Instrument/StreamGrp/PaymentStream/PaymentStreamFloatingRate/ PaymentStreamRateIndex(40789) |
| Term of underlying interest rate | Instrument/StreamGrp/PaymentStream/PaymentStreamFloatingRate/ PaymentStreamRateIndexCurvePeriod(40792) PaymentStreamRateIndexCurveUnit(40791) |
| Time to maturity bucket of the future/forward 0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Interest Rate Options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  INTR = Interest rate | Underlying interest rate or underlying interest rate future or FRA | UnderlyingInstrument/UnderlyingStreamGrp/UnderlyingPaymentStream/UnderlyingPaymentStreamFloatingRate/ UnderlyingPaymentStreamRateIndex(40620) |
| Term of underlying interest rate  | UnderlyingInstrument/UnderelyingStreamGrp/UnderlyingPaymentStream/UnderlyingPaymentStreamFloatingRate/ UnderlyingPaymentStreamRateIndexCurvePeriod(40623) UnderlyingPaymentStreamRateIndexCurveUnit(40622) |
| Time to maturity bucket of the option  0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Swaptions** Instrument/ SecurityType(167)  SWAPTION = Swap Option AssetClass(1938)=1 (Interest rate) | Underlying swap type defined as follows: fixed-to-fixed single currency swap, futures/forwards on fixed-to-fixed single currency swap, fixed-to-float single currency swap, futures/forwards on fixed-to-float single currency swap, float-to-float single currency swap, futures/forwards on float-to-float single currency swap, inflation single currency swap, futures/forwards on inflation single currency swap, OIS single currency swap, futures/forwards on OIS single currency swap, fixed-to-fixed multi-currency swap, futures/forwards on fixed-to-fixed multi-currency swap, fixed-to-float multi-currency swap, futures/forwards on fixed-to-float multi-currency swap, float-to-float multi-currency swap, futures/forwards on float-to-float multi-currency swap, inflation multi-currency swap, futures/forwards on inflation multi-currency swap, OIS multi-currency swap, futures/forwards on OIS multi-currency swap | Instrument/ AssetSubClass(1939) AssetType(1940)  *see value pairs in the first column of rows below* |
| Notional currency defined as the currency in which the notional amount of the option is denominated  | Currency(15)*… or …*Instrument/ StrikeCurrency(947) |
| Inflation index if the underlying swap type is either an inflation single currency swap or inflation multi-currency swap  | UnderlyingInstrument/UnderlyingStreamGrp/UnderlyingPaymentStream/UnderlyingPaymentStreamFloatingRate/ UnderlyingPaymentStreamRateIndex(40620) |
| Time to maturity bucket of the swap  0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*UnderlyingInstrument/UnderelyingStreamGrp/UnderlyingStreamTerminationDate/ UnderlyingStreamTerminationDateUnadjusted(40548) |
| Time to maturity bucket of the option  0 - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Fixed-to-Float 'multi currency swaps' or ‘cross-currency swaps’ and futures/forwards on Fixed-to-Float 'multi currency swaps' or ‘cross-currency swaps’**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  2 (Cross currency) AssetType(1940)=  XFMC = Fixed to Float Multi-Currency | Notional currency pair defined as combination of the two currencies in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055)*… and …*Instrument/StreamGrp[2]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Float-to-Float 'multi currency swaps' or ‘cross-currency swaps’ and futures/forwards on Float-to-Float 'multi currency swaps' or ‘cross-currency swaps’**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  2 (Cross currency) AssetType(1940)=  FFMC = Float to Float Multi-Currency | Notional currency pair defined as combination of the two currencies in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055)*… and …*Instrument/StreamGrp[2]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Fixed-to-Fixed 'multi currency swaps' or ‘cross-currency swaps’ and futures/forwards on Fixed-to-Fixed 'multi currency swaps' or ‘cross-currency swaps'**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  2 (Cross currency) AssetType(1940)=  XXMC = Fixed to Fixed Multi-Currency | Notional currency pair defined as combination of the two currencies in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055)*… and …*Instrument/StreamGrp[2]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Overnight Index Swap (OIS) 'multi currency swaps' or ‘cross-currency swaps’ and futures/forwards on Overnight Index Swap (OIS) 'multi currency swaps' or ‘cross-currency swap'**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  2 (Cross currency) AssetType(1940)=  OSMC = OIS Multi-Currency  | Notional currency pair defined as combination of the two currencies in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055)*… and …*Instrument/StreamGrp[2]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Inflation 'multi currency swaps' or ‘cross-currency swaps’ and futures/forwards on Inflation 'multi currency swaps' or ‘cross-currency swaps’** Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  2 (Cross currency) AssetType(1940)=  IFMC = Inflation Multi-Currency  | Notional currency pair defined as combination of the two currencies in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055)*… and …*Instrument/StreamGrp[2]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Fixed-to-Float 'single currency swaps' and futures/forwards on Fixed-to-Float 'single currency swaps'**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  XFSC = Fixed to Float Single-Currency | Notional currency in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap  0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Float-to-Float 'single currency swaps' and futures/forwards on Float-to-Float 'single currency swaps'** Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  FFSC = Float to Float Single-Currency | Notional currency in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap  0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Fixed-to-Fixed 'single currency swaps' and futures/forwards on Fixed-to-Fixed 'single currency swaps'**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  XXSC = Fixed to Fixed Single-Currency | Notional currency in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap  0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Overnight Index Swap (OIS) 'single currency swaps' and futures/forwards on Overnight Index Swap (OIS) 'single currency swaps'**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  OSSC = OIS Single-Currency | Notional currency in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap  0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Inflation 'single currency swaps' and futures/forwards on Inflation 'single currency swaps'**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate) AssetSubClass(1939)=  1 (Single currency) AssetType(1940)=  IFSC = Inflation Single-Currency | Notional currency in which the two legs of the swap are denominated | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Time to maturity bucket of the swap  0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Other Interest Rate Derivatives**Instrument/ SecurityType(167)  IRS = Interest Rate Swap AssetClass(1938)=1 (Interest rate)  AssetSubClass(1939)=  1 (Single currency)  2 (Cross currency) AssetType(1940)=  OTHR = Other | *No Segmentation Criteria* | *Not applicable* |

### Equity Derivatives – Segmentation Criteria

RTS 2 Annex III Section 6 Table 6.1 identifies Segmentation Criteria for this group of securities as follows:

| **Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Stock index options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=4 (Equity) AssetSubClass(1939)=11 (Equity index) | Underlying stock index  | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  <tbd> = Index Name |
| **Stock index futures/ forwards**Instrument/ SecurityType(167)  FUT = Futures  EQFWD = Equity Forward AssetClass(1938)=4 (Equity) AssetSubClass(1939)=11 (Equity index) | Underlying stock index  | Instrument/ SecurityID(48)=<entity> SecurityIDSource(22)=  <tbd> = Index Name |
| **Stock options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=4 (Equity) AssetSubClass(1939)=4 (Single name) | Underlying share  | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  4 = ISIN |
| **Stock futures/ forwards**Instrument/ SecurityType(167)  FUT = Futures  EQFWD = Equity Forward AssetClass(1938)=4 (Equity) AssetSubClass(1939)=4 (Single name) | Underlying share  | Instrument/ SecurityID(48)=<entity> SecurityIDSource(22)=  4 = ISIN |
| **Stock dividend options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=4 (Equity) AssetSubClass(1939)=35 (Stock Dividend) | Underlying share entitling to dividends  | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  4 = ISIN |
| **Stock dividend futures/ forwards**Instrument/ SecurityType(167)  FUT = Futures  EQFWD = Equity Forward AssetClass(1938)=4 (Equity) AssetSubClass(1939)=35 (Stock Dividend) | Underlying share entitling to dividends  | Instrument/ SecurityID(48)=<entity> SecurityIDSource(22)=  4 = ISIN |
| **Dividend index options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=4 (Equity) AssetSubClass(1939)=34 (Dividend Index) | Underlying dividend index | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  <tbd> = Index Name |
| **Dividend index futures/ forwards**Instrument/ SecurityType(167)  FUT = Futures  EQFWD = Equity Forward AssetClass(1938)=4 (Equity) AssetSubClass(1939)=34 (Dividend Index) | Underlying dividend index | Instrument/ SecurityID(48)=<entity> SecurityIDSource(22)=  <tbd> = Index Name |
| **Volatility index options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=4 (Equity) AssetSubClass(1939)=37 (Volatility Index) | Underlying volatility index  | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  <tbd> = Index Name |
| **Volatility index futures/ forwards**Instrument/ SecurityType(167)  FUT = Futures  EQFWD = Equity Forward AssetClass(1938)=4 (Equity) AssetSubClass(1939)=37 (Volatility Index) | Underlying volatility index  | Instrument/ SecurityID(48)=<entity> SecurityIDSource(22)=  <tbd> = Index Name |
| **ETF options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=4 (Equity) AssetSubClass(1939)=36 (Exchange Traded Fund) | Underlying ETF | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  4 = ISIN |
| **ETF futures/ forwards**Instrument/ SecurityType(167)  FUT = Futures  EQFWD = Equity Forward AssetClass(1938)=4 (Equity) AssetSubClass(1939)=36 (Exchange Traded Fund) | Underlying ETF |  |
| **Swaps**Instrument/ SecurityType(167)CRLTNSWAP = Correlation SwapDVDNDSWAP = Dividend Swap RTRNSWAP = Return SwapTRS = Total Return SwapVARSWAP = Variance Swap AssetClass(1938)=4 (Equity) | Underlying type: single name, index, basket | Instrument/AssetSubClass(1939)=4 = Single name11 = Equity Index12 = Equity Basket |
| Underlying single name, index, basket | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  4 = ISIN  <tbd> = Index Name*An equity basket can be defined using a basket name with an IDSource of <tbd> (Index Name) or using a series of UnderlyingInstrument instances each identifying a single equity in the basket.* |
| Parameter: price return basic performance parameter, parameter return dividend, parameter return variance, parameter return volatility | Instrument/ AssetSubType(2735)  PRBP = Price Return Basic Performance  PRDV = Parameter Return Dividend  PRVA = Parameter Return Variance  PRVO = Parameter Return Volatility |
| Time to maturity bucket of the swap*If 'price basic performance':* 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr*If 'return variance/volatility':* 0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr*If 'return dividend':* 0 - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Portfolio Swaps**Instrument/ SecurityType(167)PRTFLIOSWAP = Portfolio Swap AssetClass(1938)=4 (Equity) | Underlying type: single name, index, basket | Instrument/AssetSubClass(1939)=4 = Single name11 = Equity Index12 = Equity Basket |
| Underlying single name, index, basket | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  4 = ISIN  <tbd> = Index Name*An equity basket can be defined using a basket name with an IDSource of <tbd> (Index Name) or using a series of UnderlyingInstrument instances each identifying a single equity in the basket.* |
| Parameter: price return basic performance parameter, parameter return dividend, parameter return variance, parameter return volatility | Instrument/ AssetSubType(2735)  PRBP = Price Return Basic Performance  PRDV = Parameter Return Dividend  PRVA = Parameter Return Variance  PRVO = Parameter Return Volatility |
| Time to maturity bucket of the swap 0 - 1 mo 1 mo - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Other Equity Derivatives**Instrument/ AssetClass(1938)=4 (Equity) | *No Segmentation Criteria* | *Not applicable* |

### Commodity Derivatives – Segmentation Criteria

RTS 2 Annex III Section 7 Table 7.1 identifies Segmentation Criteria for this group of securities as follows:

| **Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Metal commodity futures/forwards**Instrument/ SecurityType(167)  FUT = Future  FWD = Forward AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=13 (Metals) | Metal type: precious metal, non-precious metal | Instrument/ AssetType(1949)=  NPRM = Non Precious  PRME = Precious |
| Underlying metal  | Instrument/ AssetSubType(2735)=  ALUM = Aluminum  ALUA = Aluminum Alloy  CBLT = Cobalt  COPR = Copper  IRON = Iron Ore  LEAD = Lead  MOLY = Molybdenum  NASC = NASACC  NICK = Nickel  STEL = Steel  TINN = Tin  ZINC = Zinc  GOLD = Gold  SLVR = Silver  PTNM = Platinum  PLDM = Palladium  OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated  | Currency(15) |
| Time to maturity bucket of the future/forward*If Precious metals:* 0 - 3 mo 3 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr*If Non-precious metals:* 0 - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Metal commodity options**Instrument/ SecurityType(167)  OOF = Option on Future AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=13 (Metals) | Metal type: precious metal, non-precious metal | Instrument/ AssetType(1949)=  NPRM = Non Precious  PRME = Precious |
| Underlying metal  | Instrument/ AssetSubType(2735)=  ALUM = Aluminum  ALUA = Aluminum Alloy  CBLT = Cobalt  COPR = Copper  IRON = Iron Ore  LEAD = Lead  MOLY = Molybdenum  NASC = NASACC  NICK = Nickel  STEL = Steel  TINN = Tin  ZINC = Zinc  GOLD = Gold  SLVR = Silver  PTNM = Platinum  PLDM = Palladium  OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated | Currency(15) |
| Time to maturity bucket of the option *If Precious metals:* 0 - 3 mo 3 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr*If Non-precious metals:* 0 - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Metal commodity swaps**Instrument/ SecurityType(167)  CMDTYSWAP = Commodity Swap AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=13 (Metals) | Metal type: precious metal, non-precious metal | Instrument/ AssetType(1949)=  NPRM = Non Precious  PRME = Precious |
| Underlying metal  | Instrument/ AssetSubType(2735)=  ALUM = Aluminum  ALUA = Aluminum Alloy  CBLT = Cobalt  COPR = Copper  IRON = Iron Ore  LEAD = Lead  MOLY = Molybdenum  NASC = NASACC  NICK = Nickel  STEL = Steel  TINN = Tin  ZINC = Zinc  GOLD = Gold  SLVR = Silver  PTNM = Platinum  PLDM = Palladium  OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated  | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Settlement type defined as cash, physical or other  | Instrument/StreamGrp[1]/ StreamType(40050)  0 = Payment / cash settlement  1 = Physical delivery |
| Time to maturity bucket of the swap *If Precious metals:* 0 - 3 mo 3 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr*If Non-precious metals:* 0 - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Energy commodity futures/forwards**Instrument/ SecurityType(167)  FUT = Future  FWD = Forward AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=15 (Energy) | Energy type: oil, oil distillates, coal, oil light ends, natural gas, electricity, inter-energy | Instrument/ AssetType(1949)=  ELEC = Electricity  NGAS = Natural Gas  OILP = Oil  COAL = Coal  INRG = Inter Energy  RNNG = Renewable energy  LGHT = Light ends  DIST = Distillates |
| Underlying energy | Instrument/ AssetSubType(2735)=  BSLD = Base Load  FITR = Financial Transmission Rights  PKLD = Peak Load  OFFP = Off Peak  GASP = Gas Pool  LNGG = LNG  NCGG = NCG  NBPG = NBP  TTFG = TFF   BAKK = Bakken  BDSL = Biodiesel  BRNT = Brent  BRNX = Brent NX  CNDA = Canadian  COND = Condensate  DSEL = Diesel  DUBA = Dubai  ESPO = ESPO  ETHA = Ethanol  FUEL = Fuel  FOIL = Fuel Oil  GOIL = Gasoil  GSLN = Gasoline  HEAT = Heating Oil  JTFL = Jet Fuel  KERO = Kerosene  LLSO = Light Louisiana Sweet (LLS)  MARS = Mars  NAPH = NAPHTA  NGLO = NGL  TAPI = Tapis  URAL = Urals  WTIO = WTI   OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated  | Currency(15) |
| Load type defined as baseload, peakload, off-peak or others, applicable to energy type: electricity | Instrument/ FlowScheduleType(1439)  <tbd> = All times  <tbd> = On peak  <tbd> = Off peak  <tbd> = Base  <tbd> = Block  <tbd> = Other |
| Delivery/ cash settlement location applicable to energy types: oil, oil distillates, oil light ends, electricity, inter-energy | Instrument/ SettlMethod(1193)  C = Cash settlement required  P = Physical settlement required  E = Election at exercise |
| Time to maturity bucket of the future/forward*If Oil, Oil Distillates, Oil Light ends:* 0 - 4 mo 4 mo - 8 mo 8 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr*If Coal:* 0 - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr*If Natural Gas, Electricity, Inter-energy:* 0 - 1 mo 1 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Energy commodity options**Instrument/ SecurityType(167)  OOF = Option on Futures AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=15 (Energy) | Energy type: oil, oil distillates, coal, oil light ends, natural gas, electricity, inter-energy | Instrument/ AssetType(1949)=  ELEC = Electricity  NGAS = Natural Gas  OILP = Oil  COAL = Coal  INRG = Inter Energy  RNNG = Renewable energy  LGHT = Light ends  DIST = Distillates |
| Underlying energy | Instrument/ AssetSubType(2735)=  BSLD = Base Load  FITR = Financial Transmission Rights  PKLD = Peak Load  OFFP = Off Peak  GASP = Gas Pool  LNGG = LNG  NCGG = NCG  NBPG = NBP  TTFG = TFF   BAKK = Bakken  BDSL = Biodiesel  BRNT = Brent  BRNX = Brent NX  CNDA = Canadian  COND = Condensate  DSEL = Diesel  DUBA = Dubai  ESPO = ESPO  ETHA = Ethanol  FUEL = Fuel  FOIL = Fuel Oil  GOIL = Gasoil  GSLN = Gasoline  HEAT = Heating Oil  JTFL = Jet Fuel  KERO = Kerosene  LLSO = Light Louisiana Sweet (LLS)  MARS = Mars  NAPH = NAPHTA  NGLO = NGL  TAPI = Tapis  URAL = Urals  WTIO = WTI   OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated | Currency(15) |
| Load type defined as baseload, peakload, off-peak or others, applicable to energy type: electricity | UnderlyingInstrument/ UnderlyingFlowScheduleType(1441)  <tbd> = All times  <tbd> = On peak  <tbd> = Off peak  <tbd> = Base  <tbd> = Block  <tbd> = Other |
| Delivery/ cash settlement location applicable to energy types: oil, oil distillates, oil light ends, electricity, inter-energy | UnderlyingInstrument/ UnderlyingSettlMethod(039)  C = Cash settlement required  P = Physical settlement required  E = Election at exercise |
| Time to maturity bucket of the option*If Oil, Oil Distillates, Oil Light ends:* 0 - 4 mo 4 mo - 8 mo 8 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr*If Coal:* 0 - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr*If Natural Gas, Electricity, Inter-energy:* 0 - 1 mo 1 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr  | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Energy commodity swaps**Instrument/ SecurityType(167)  CMDTYSWAP = Commodity Swap AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=15 (Energy) | Energy type: oil, oil distillates, coal, oil light ends, natural gas, electricity, inter-energy | Instrument/ AssetType(1949)=  ELEC = Electricity  NGAS = Natural Gas  OILP = Oil  COAL = Coal  INRG = Inter Energy  RNNG = Renewable energy  LGHT = Light ends  DIST = Distillates |
| Underlying energy | Instrument/ AssetSubType(2735)=  BSLD = Base Load  FITR = Financial Transmission Rights  PKLD = Peak Load  OFFP = Off Peak  GASP = Gas Pool  LNGG = LNG  NCGG = NCG  NBPG = NBP  TTFG = TFF   BAKK = Bakken  BDSL = Biodiesel  BRNT = Brent  BRNX = Brent NX  CNDA = Canadian  COND = Condensate  DSEL = Diesel  DUBA = Dubai  ESPO = ESPO  ETHA = Ethanol  FUEL = Fuel  FOIL = Fuel Oil  GOIL = Gasoil  GSLN = Gasoline  HEAT = Heating Oil  JTFL = Jet Fuel  KERO = Kerosene  LLSO = Light Louisiana Sweet (LLS)  MARS = Mars  NAPH = NAPHTA  NGLO = NGL  TAPI = Tapis  URAL = Urals  WTIO = WTI   OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated  | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Settlement type defined as cash, physical or other  | Instrument/StreamGrp[1]/ StreamType(40050)  0 = Payment / cash settlement  1 = Physical delivery |
| Load type defined as baseload, peakload, off-peak or others, applicable to energy type: electricity | Instrument/StreamGrp[1]/DeliveryScheduleGrp/ DeliveryScheduleSettlFlowType(41049)  0 = All times  1 = On peak  2 = Off peak  3 = Base  4 = Block  5 = Other |
| Delivery/ cash settlement location applicable to energy types: oil, oil distillates, oil light ends, electricity, inter-energy | Instrument/StreamGrp[1]/DeliveryStream/ DeliveryStreamDeliveryPoint(41062) |
| Time to maturity bucket of the swap *If Oil, Oil Distillates, Oil Light ends:* 0 - 4 mo 4 mo - 8 mo 8 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr*If Coal:* 0 - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr*If Natural Gas, Electricity, Inter-energy:* 0 - 1 mo 1 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and termination date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Agricultural commodity futures/forwards**Instrument/ SecurityType(167)  FUT = Future  FWD = Forward AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=17 (Agricultural) | Underlying agricultural commodity  | Instrument/ AssetType(1949)=  GROS = Grains and Oil Seeds  SOFT = Softs  POTA = Potato  OOLI = Olive Oil  DIRY = Dairy  FRST = Forestry  SEAF = Seafood  LSTK = Live Stock  GRIN = Grain AssetSubType(2735)=  FWHT = Feed Wheat  SOYB = Soybeans  RPSD = Rapeseed  CORN = Maize  RICE = Rice  ROBU = Robusta Coffee  CCOA = Cocoa  BRWN = Raw Sugar  WHSG = White Sugar  LAMP = Lampante  MWHT = Milling Wheat  OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated  | Currency(15) |
| Time to maturity bucket of the future/forward 0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Agricultural commodity options**Instrument/ SecurityType(167)  OOF = Option on Futures AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=17 (Agricultural) | Underlying agricultural commodity  | Instrument/ AssetType(1949)=  GROS = Grains and Oil Seeds  SOFT = Softs  POTA = Potato  OOLI = Olive Oil  DIRY = Dairy  FRST = Forestry  SEAF = Seafood  LSTK = Live Stock  GRIN = Grain AssetSubType(2735)=  FWHT = Feed Wheat  SOYB = Soybeans  RPSD = Rapeseed  CORN = Maize  RICE = Rice  ROBU = Robusta Coffee  CCOA = Cocoa  BRWN = Raw Sugar  WHSG = White Sugar  LAMP = Lampante  MWHT = Milling Wheat  OTHR = Other |
| Notional currency defined as the currency in which the Notional amount of the future/forward or option or swap is denominated  | Currency(15) |
| Time to maturity bucket of the option  0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Agricultural commodity swaps**Instrument/ SecurityType(167)  CMDTYSWAP = Commodity Swap AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=17 (Agricultural) | Underlying agricultural commodity  | Instrument/ AssetType(1949)=  GROS = Grains and Oil Seeds  SOFT = Softs  POTA = Potato  OOLI = Olive Oil  DIRY = Dairy  FRST = Forestry  SEAF = Seafood  LSTK = Live Stock  GRIN = Grain AssetSubType(2735)=  FWHT = Feed Wheat  SOYB = Soybeans  RPSD = Rapeseed  CORN = Maize  RICE = Rice  ROBU = Robusta Coffee  CCOA = Cocoa  BRWN = Raw Sugar  WHSG = White Sugar  LAMP = Lampante  MWHT = Milling Wheat  OTHR = Other |
| Notional currency defined as the currency in which the notional amount of the future/forward or option or swap is denominated underlying agricultural commodity  | Instrument/StreamGrp[1]/ StreamCurrency(40055) |
| Settlement type defined as cash, physical or other | Instrument/StreamGrp[1]/ StreamType(40050)  0 = Payment / cash settlement  1 = Physical delivery |
| Time to maturity bucket of the swap  0 - 3 mo 3 mo - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065) |
| **Other Interest Rate Derivatives**Instrument/ AssetClass(1938)=5 (Commodity) | *No Segmentation Criteria* | *Not applicable* |

### Foreign Exchange Derivatives – Segmentation Criteria

RTS 2 Annex III Section 8 Table 8.1 identifies Segmentation Criteria for this group of securities as follows:

| **Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Non-deliverable Forward**Instrument/ SecurityType(167)  FXNDF = FX Non-deliverable forward AssetClass(1938)=2 (Currency) | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the future/forward 0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **Deliverable Forward**Instrument/ SecurityType(167)  FXFWD = FX Forward AssetClass(1938)=2 (Currency) | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the future/forward 0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **Non-Deliverable FX Options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=2 (Currency)UnderlyingInstrument/ UnderlyingSecurityType(310)  FXNDF = FX Non-deliverable forward | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the option 0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **Deliverable FX Options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=2 (Currency)UnderlyingInstrument/ UnderlyingSecurityType(310)  FXFWD = FX forward | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the option 0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **Non-Deliverable FX Swaps***spot or near forward transaction:*Instrument/ SecurityType(167)  FXNDF = FX Non-deliverable forward AssetClass(1938)=2 (Currency)SettlDate(64)=<near date>StrategyLinkID(1851)=<swap parent>*far forward transaction:*Instrument/ SecurityType(167)  FXNDF = FX Non-deliverable forward AssetClass(1938)=2 (Currency)SettlDate(64)=<far date>StrategyLinkID(1851)=<swap parent> | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | *FX Swaps are submitted to RHUB as two separate trades linked through StrategyLinkID(1851).*Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the swap  0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *FX Swaps are submitted to RHUB as two separate trades linked through StrategyLinkID(1851). Each leg of the swap has a different maturity.**Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **Deliverable FX Swaps** *spot or near forward transaction:*Instrument/ SecurityType(167)  FXSPOT = FX Spot  FXFWD = FX Forward AssetClass(1938)=2 (Currency)SettlDate(64)=<near date>StrategyLinkID(1851)=<swap parent>*far forward transaction:*Instrument/ SecurityType(167)  FXFWD = FX Forward AssetClass(1938)=2 (Currency)SettlDate(64)=<far date>StrategyLinkID(1851)=<swap parent> | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | *FX Swaps are submitted to RHUB as two separate trades linked through StrategyLinkID(1851).*Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the swap  0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *FX Swaps are submitted to RHUB as two separate trades linked through StrategyLinkID(1851). Each leg of the swap has a different maturity.**Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **FX Futures**Instrument/ SecurityType(167)  FUT = Futures AssetClass(1938)=2 (Currency) | Underlying currency pair defined as combination of the two currencies underlying the derivative contract  | Instrument/ Symbol(55)=<currency pair> |
| Time to maturity bucket of the future/forward 0 - 1 wk 1 wk - 3 mo 3 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and settlement date:*SettlDate(64)=<date> |
| **Other FX Derivatives**Instrument/ AssetClass(1938)=2 (Currency) | *No Segmentation Criteria* | *Not applicable* |

### Credit Derivatives – Segmentation Criteria

RTS 2 Annex III Section 9 Table 9.1 identifies Segmentation Criteria for this group of securities as follows:

| **Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Index credit default swap (CDS)**Instrument/ SecurityType(167)  CDS = Credit Default Swap AssetClass(1938)=3 (Credit) AssetSubClass(1939)=5 (Credit index) | Underlying Index  | UnderlyingInstrument/ UnderlyingSecurityID(309)=<index> UnderlyingSecurityIDSource(305)=<tbd> (Index Name) UnderlyingIndexCurveUnit(2753) UnderlyingIndexCurvePeriod(2752) |
| Notional currency defined as the currency in which the notional amount of the derivative is denominated | Currency(15) |
| Time to maturity bucket of the swap 0 - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Single name credit default swap (CDS)** Instrument/ SecurityType(167)  CDS = Credit Default Swap AssetClass(1938)=3 (Credit) AssetSubClass(1939)=4 (Single name) | Underlying reference entity | UnderlyingInstrument/ UnderlyingSecurityID(309)=<entity> UnderlyingSecurityIDSource(305)=  7 = ISO Country Code  T = Legal entity identifier |
| Underlying reference entity type | Instrument/ AssetType(1940)  CORP = Corporate  MUNI = Municipal  SVGN = Sovereign  CVDB = Covered Bond (ABS) |
| Notional currency defined as the currency in which the notional amount of the derivative is denominated | Currency(15) |
| Time to maturity bucket of the swap 0 - 1 yr 1 yr - 2 yr 2 yr - 3 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **CDS index options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=3 (Credit) AssetSubClass(1939)=5 (Credit index) | CDS index sub-class as specified for the sub-asset class of index credit default swap (CDS) | Instrument/ AssetType(1940)  CDXN (CDX)  CDXS (CDX Structured)  ITXN (iTraxx)  ITXS (iTraxx Structured) |
| Time to maturity bucket of the option 0 - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Single name CDS options**Instrument/ SecurityType(167)  OPT = Option AssetClass(1938)=3 (Credit) AssetSubClass(1939)=4 (Single name) | Single name CDS sub-class as specified for the sub-asset class of single name CDS | Instrument/ AssetType(1940)  CORP (Corporate)  MUNI (Municipal)  SVGN (Sovereign)  CVDB (Covered Bond (ABS) |
| Time to maturity bucket of the option 0 - 6 mo 6 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:*Instrument/ MaturityDate(541) |
| **Other credit derivatives**Instrument/ AssetClass(1938)=3 (Credit) | *No Segmentation Criteria* | *Not applicable* |

### C10 – Segmentation Criteria

RTS 2 Annex III Section 10 Table 10.1 identifies Segmentation Criteria for this group of securities as follows:

| **Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Freight derivatives**Instrument/ AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=19 (Freight) | Contract type: Forward Freight Agreements (FFAs) or options | Instrument/ SecurityType(167)=  FWDFRTAGMT = Forward Freight Agreement   OOF = Option on Futures |
| Freight type: wet freight, dry freight | Instrument/AssetType(1940)=DRYF = DRYWETF = Wet |
| Freight sub-type: dry bulk carriers, tanker, containership | Instrument/AssetSubType(2735)=DBCR = Dry Bulk CarrierTNKR = TankerCSHP = Container Ship |
| Specification of the size related to the freight sub-type | *If a swap:*Instrument/StreamGrp/ StreamTotalNotional(41310)=<qty> StreamTotalNotionalUnitOfMeasure(41311)=<uom>*Otherwise:*Instrument/ UnitOfMeasure(996)=<uom> UnitOfMeasureQty(1147)=<qty of 1 unit> ContractMultiplier(231)=<size of 1 contract>QtyTyp(854)=1 (Contracts)LastQty(32)=<number of contracts>*Total size = LastQty\*ContractMultiplier\*UOMQty* |
| Specific route or time charter average | *If a swap:*Instrument/StreamGrp/DeliveryStream/ DeliveryStreamRouteOrCharter(2757) *Otherwise:*Instrument/ DeliveryRouteOrCharter(tbd) |
| Time maturity bucket of the derivative  0 - 1 mo 1 mo -3 mo 3 mo -6 mo 3 mo -9 mo 9 mo - 1 yr 1 yr - 2 yr . . . (n-1) yr - n yr | *Difference between trade date and maturity date:**If a swap:*Instrument/StreamGrp[1]/StreamTerminationDate/ StreamTerminationDateUnadjusted(40065)*Otherwise:*Instrument/ MaturityDate(541) |
| **Other C10 derivatives**Instrument/ AssetClass(1938)=5 (Commodity) AssetSubClass(1939)=47 (Other C10) | *No Segmentation Criteria* | *Not applicable* |

### Contracts for Differences – Segmentation Criteria

RTS 2 Annex III Section 11 Table 11.1 identifies Segmentation Criteria for this group of securities as follows:

| **Asset Class** | **Segmentation Criteria** | **FIX Mapping** |
| --- | --- | --- |
| **Currency CFDs**Instrument/ SecurityType(167)  CFD = Contract for Differences AssetClass(1938)=2 (Currency) | Underlying currency pair of the CFD/spread betting contract | UnderlyingInstrument/ UnderlyingSymbol(311)=<currency pair> |
| **Commodity CFDs**Instrument/ SecurityType(167)  CFD = Contract for Differences AssetClass(1938)=5 (Commodity) | Underlying commodity of the CFD/spread betting contract | Instrument/ AssetClass(1938)=5 (Commodity) AssetSubClass(1939)  AssetType(1940)   AssetSubType(2735)*See full taxonomy hierarchy in Section* ***Error! Reference source not found.****,* ***Error! Reference source not found.*** |
| **Equity CFDs**Instrument/ SecurityType(167)  CFD = Contract for Differences AssetClass(1938)=4 (Equity)UnderlyingInstrument/ UnderlyingSecurityType(310)  CS = Common Stock  PS = Preferred Stock | Underlying equity security of the CFD/spread betting contract | UnderlyingInstrument/UnderlyingSecurityID(309)=<identifier>UnderlyingSecurityIDSource(305)=4 (ISIN) |
| **Bond CFDs**Instrument/ SecurityType(167)  CFD = Contract for Differences AssetClass(1938)=8 (Debt) | Underlying bond or bond future of the CFD/spread betting contract | UnderlyingInstrument/UnderlyingSecurityID(309)=<identifier>UnderlyingSecurityIDSource(305)=4 (ISIN) |
| **CFDs on an equity futures/forward**Instrument/ SecurityType(167)  CFD = Contract for Differences AssetClass(1938)=4 (Equity)UnderlyingInstrument/ UnderlyingSecurityType(310)  FUT = Futures  FWD = Forward | Underlying future/forward on an equity of the CFD/spread betting contract | UnderlyingInstrument/UnderlyingSecurityID(309)=<identifier>UnderlyingSecurityIDSource(305)=4 (ISIN) |
| **CFDs on an equity option**Instrument/ SecurityType(167)  CFD = Contract for Differences AssetClass(1938)=4 (Equity)UnderlyingInstrument/ UnderlyingSecurityType(310)  OPT = Option | Underlying option on an equity of the CFD/spread betting contract | UnderlyingInstrument/UnderlyingSecurityID(309)=<identifier>UnderlyingSecurityIDSource(305)=4 (ISIN) |
| **Other CFDs**Instrument/ SecurityType(167)  CFD = Contract for Differences | *No Segmentation Criteria* | *Not applicable* |

## Receiver versus Payer Swaption terminology

In RTS 23 Annex I Table 3 Row 30 reference is made to a "receiver" swaption versus a "payer" swaption. In addition Swaptions offer the buyer the choice to be "receiver" or "payer" on exercise or "chooser". The updated CFI standard encoding includes entries for "chooser" and it is identified as an input to the current ANNA DSB requirements.

|  |  |
| --- | --- |
| Option Type | Option: CFI[4] A - European-Call B - American-Call C - Bermudan-Call D - European-Put E- American-Put F - Bermudan-Put G - European-Chooser H- American-Chooser I - Bermudan-Chooser |

We propose the following:

* To add "Chooser" as an option type to the FIX standard.
* To elaborate the FIX standard terminology to account for Swaption terminology.

## Notional Schedule identification

The updated CFI standard calls for specific values for IRS Notional Schedule and it too is identified as an input to the current ANNA DSB requirements. The attribute is identified by ESMA as a factor in determining whether an IRS falls under their trading obligation.

|  |  |
| --- | --- |
| Notional Schedule | *Swap:* CFI[4] C - Constant I - Accreting D - Amortizing Y - Custom |

We propose the following:

* To add values for "Custom", "Accreting" and "Custom" to SwapSubClass(1575) and to deprecate the existing value "Compounding" which does not apply to notional schedule.

## Return or Payout Trigger and Valuation Method

Another detail of the updated CFI standard calls for Return or Payout Trigger values for swaps and forwards and Valuation Method or Trigger values for Options. We propose to introduce new values to the existing OptPayoutType(1482) for Options and to introduce a new field ReturnTrigger(tbd) for Swaps and Forwards in order to have one-to-one correspondence between FIX and CFI.

The following table summarizes the CFI values supported for the five derivative classes:

Table 1: CFI Return or Payout Trigger and Valuation Method

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute** | **Rates** | **Credit** | **FX** | **Equity** | **Commodities** |
| Return or Payout Trigger | CIF[5] S - Spread-bet F = Forward price of underlying instrument | CFI[4] *Swaps:* C - Credit Default T - Total return M - OthersCFI[5] *Forwards:* C - Contract for difference S - Spread-bet F - Forward price of underlying | CFI[5] *Forwards:* C - Contract for difference S - Spread-bet F - Forward price of underlying instrument | CFI[4] *Forwards:* C - Contract for difference S - Spread-bet F - Forward price of underlying instrument P - PriceCFI[5] *Swaps:* D - Dividend V - Variance L - Volatility T - Total Return C - Contract for difference M - Other | CFI[4] *Swaps:* C - Contract for difference T - Total ReturnCFI[5] *Forwards:* C - Contract for difference F - Forward price of underlying instrument |
| Valuation Method or Trigger | CFI[5] *Options:* V - Vanilla A - Asian D - Digital (Binary) B - Barrier G - Digital Barrier L - Lookback P - Other Path Dependent M - Other | CFI[5] *Options:* V - Vanilla A - Asian D - Digital (Binary) B - Barrier G - Digital Barrier L - Lookback P - Other Path Dependent M - Other | CFI[5] *Options:* V - Vanilla A - Asian D - Digital (Binary) B - Barrier G - Digital Barrier L - Lookback P - Other Path Dependent M - Other | CFI[5] *Options:* V - Vanilla A - Asian D - Digital (Binary) B - Barrier G - Digital Barrier L - Lookback P - Other Path Dependent M - Other | CFI[5] *Options:* V - Vanilla A - Asian D - Digital (Binary) B - Barrier G - Digital Barrier L - Lookback P - Other Path Dependent M - Other |

We propose the following:

* To add missing values to OptPayoutType(1482) to match CFI for Options.
* To add a new field ReturnTrigger(tbd) with all CFI values for Swaps and Forwards.

# Issues and Discussion Points

The following table raises any issues and discussions, along with their resolution.

Table 2: Issues and Discussions

| **#** | **Issue** | **Date** | **Status** | **Discussion** |
| --- | --- | --- | --- | --- |
| 1 | FlowScheduleType | 9/30/2017 | DeliveryScheduleSettlFlowType(41049) enumerations might be merged with the existing FlowScheduleType(1439) to achieve ESMA's enumerations in section 2.1.7. The difficulty is that they overlap. |  |
| 2 | Return or Payout Triger and Valuation Method | 10/19/2017 | Review proposed solution with CFTC. |  |

# Proposed Message Flow

There are no changes to message flows.

# FIX Message Tables

(no changes)

# FIX Component Blocks

## Component Instrument

|  |
| --- |
| To be completed at the time of the proposal – all information provided will be included in the repository |
| Component Name | Instrument |
| Component Abbreviated Name (for FIXML) | Instrmt |
| Component Type | \_\_\_ Block Repeating \_X\_\_ Block |
| Category | (no change) |
| Action | \_\_New \_X\_Change |
| Component SynopsisRequired, short, one or two paragraph description of the component. | (no change) |
| Component ElaborationOptional longer description of the component usage. | (no change) |
| To be finalized by FPL Technical Office |
| Repository Component ID | 1003 |

| Component FIXML Abbreviation: <*Instrmt*> |
| --- |
| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *FIX Spec Comments* |
| *(…truncated…)* |  |  |  |  |
| 1482 | OptPayoutType |  |  |  |  |
| 1195 | OptPayoutAmount |  |  |  |  |
| tbd | ReturnTrigger | N | ADD |  |  |
| 1196 | PriceQuoteMethod |  |  |  |  |
| 1197 | ValuationMethod |  |  |  |  |
| *(…truncated…)* |  |  |  |  |
| 2142 | CommonPricingIndicator |  |  |  |  |
| 2143 | SettlDisruptionProvision |  |  |  |  |
| tbd | DeliveryRouteOrCharter | N | ADD |  |  |
| 2144 | InstrumentRoundingDirection |  |  |  |  |
| 2145 | InstrumentRoundingPrecision |  |  |  |  |
| *(…truncated…)* |  |  |  |  |
| </*Instrmt*> |

## Component InstrumentLeg

|  |
| --- |
| To be completed at the time of the proposal – all information provided will be included in the repository |
| Component Name | InstrumentLeg |
| Component Abbreviated Name (for FIXML) | Leg |
| Component Type | \_\_\_ Block Repeating \_X\_\_ Block |
| Category | (no change) |
| Action | \_\_New \_X\_Change |
| Component SynopsisRequired, short, one or two paragraph description of the component. | (no change) |
| Component ElaborationOptional longer description of the component usage. | (no change) |
| To be finalized by FPL Technical Office |
| Repository Component ID | 1003 |

| Component FIXML Abbreviation: <*Leg*> |
| --- |
| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *FIX Spec Comments* |
| *(…truncated…)* |  |  |  |  |
| 2193 | LegOptPayoutType |  |  |  |  |
| 2194 | LegOptPayoutAmount |  |  |  |  |
| tbd | LegReturnTrigger | N | ADD |  |  |
| 2195 | LegPriceQuoteMethod |  |  |  |  |
| 2196 | LegValuationMethod |  |  |  |  |
| *(…truncated…)* |  |  |  |  |
| 2212 | LegCommonPricingIndicator |  |  |  |  |
| 2213 | LegSettlDisruptionProvision |  |  |  |  |
| tbd | LegDeliveryRouteOrCharter | N | ADD |  |  |
| 2214 | LegInstrumentRoundingDirection |  |  |  |  |
| 2215 | LegInstrumentRoundingPrecision |  |  |  |  |
| *(…truncated…)* |  |  |  |  |
| </*Leg*> |

## Component UnderlyingInstrument

|  |
| --- |
| To be completed at the time of the proposal – all information provided will be included in the repository |
| Component Name | UnderlyingInstrument |
| Component Abbreviated Name (for FIXML) | Undly |
| Component Type | \_\_\_ Block Repeating \_X\_\_ Block |
| Category | (no change) |
| Action | \_\_New \_X\_Change |
| Component SynopsisRequired, short, one or two paragraph description of the component. | (no change) |
| Component ElaborationOptional longer description of the component usage. | (no change) |
| To be finalized by FPL Technical Office |
| Repository Component ID | 1003 |

| Component FIXML Abbreviation: <*Undly*> |
| --- |
| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *FIX Spec Comments* |
| *(…truncated…)* |  |  |  |  |
| 2028 | UnderlyingOptPayoutType |  |  |  |  |
| 2029 | UnderlyingOptPayoutAmount |  |  |  |  |
| tbd | UnderlyingReturnTrigger | N | ADD |  |  |
| 2030 | UnderlyingPriceQuoteMethod |  |  |  |  |
| 2031 | UnderlyingValuationMethod |  |  |  |  |
| *(…truncated…)* |  |  |  |  |
| 2296 | UnderlyingCommonPricingIndicator |  |  |  |  |
| 2297 | UnderlyingSettlDisruptionProvision |  |  |  |  |
| tbd | UnderlyingDeliveryRouteOrCharter | N | ADD |  |  |
| 2298 | UnderlyingInstrumentRoundingDirection |  |  |  |  |
| 2299 | UnderlyingInstrumentRoundingPrecision |  |  |  |  |
| *(…truncated…)* |  |  |  |  |
| </*Undly*> |

# Category Changes

(no changes)

# Appendix A - Data Dictionary

| **Tag** | **FieldName** | **Action** | **Datatype** | **Description** | **FIXML Abbreviation** | **Add to / Deprecate from Message type or Component block** |
| --- | --- | --- | --- | --- | --- | --- |
| tbd | DeliveryRouteOrCharter | NEW | String | Specific delivery route or time charter average. Applicable to commodity freight contracts. | RteChrtr | Add to Instrument component |
| tbd | ReturnTrigger | NEW | int | Indicates the type of return or payout trigger for the swap or forward.tbd = Dividendtbd = Variancetbd = Volatilitytbd = Total returntbd = Contract for differencetbd = Credit defaulttbd = Spread-bettbd = Pricetbd = Forward price of underlying instrumenttbd = Other | RtnTrgr | Add to Instrument component |
| tbd | LegDeliveryRouteOrCharter | NEW | String | Specific delivery route or time charter average. Applicable to commodity freight contracts. | RteChrtr | Add to InstrumentLeg component |
| tbd | LegReturnTrigger | NEW | int | Indicates the type of return or payout trigger for the swap or forward.*Uses enumerations from ReturnTrigger(tbd)* | RtnTrgr | Add to InstrumentLeg component |
| tbd | UnderlyingDeliveryRouteOrCharter | NEW | String | Specific delivery route or time charter average. Applicable to commodity freight contracts. | RteChrtr | Add to UnderlyingInstrument component |
| tbd | UnderlyingReturnTrigger | NEW | int | Indicates the type of return or payout trigger for the swap or forward.*Uses enumerations from ReturnTrigger(tbd)* | RtnTrgr | Add to UnderlyingInstrument component |
| 167 | SecurityType | CHANGE | String | Indicates type of security. Security type enumerations are grouped by Product(460) field value. NOTE: Additional values may be used by mutual agreement of the counterparties.*Add values:**Under "Derivatives":*ETC = Exchange Traded Commodities*Under "Other"*:ETN = Exchange Traded NotesPRTFLIOSWAP = Portfolio SwapSECDERIV = Securitized Derivative*Under "Financing"*:SFP = Structured Finance Product |  |  |
| 201 | PutOrCall | CHANGE | int | *Change as noted:*Indicates whether an option contract is a ~~put, or call~~put, call, chooser or undetermined.*Change as noted:*0 = Put[Elaboration: Also used for the case in which the buyer of a Swaption has the right to enter into an IRS contract as a fixed-rate receiver or into a CDS contract as a seller of protection or for the case of a Floor.]1 = Call[Elaboration: Also used for the case in which the buyer of a Swaption has the right to enter into an IRS contract as a fixed-rate payer or into a CDS contract as a buyer of protection or for the case of a Cap.]2 = Other[Elaboration: In the context of ESMA RTS 22 reporting, this value may be used when, at the time of execution, the option right cannot be determined.]*Add value:*tbd = Chooser[Elaboration: Indicates that the option buyer may choose to buy or sell the underlying security on exercise or if a Swaption to pay or receive the underlying IRS cash flow stream or to buy or sell CDS protection.] |  |  |
| 315 | UnderlyingPutOrCall | CHANGE | int | *Change as noted:*~~Put or call indicator of the underlying security.~~Indicates whether the underlying option contract is a put, call, chooser or undetermined.~~See PutOrCall(201).~~*Uses enumerations from PutOrCall(201)* |  |  |
| 871 | InstrAttribType | CHANGE | int | Code to represent the type of instrument attribute*Add values:*tbd = Average daily notional amounttbd = Average daily number of trades |  |  |
| 1323 | DerivativePutOrCall | CHANGE | int | *Change as noted:*Indicates whether an Option is for a ~~put, or call~~put, call, chooser or undetermined.*Uses enumerations from PutOrCall(201)* |  |  |
| 1358 | LegPutOrCall | CHANGE | int | *Change as noted:*~~Put or call indicator of the leg security.~~Indicates whether the leg option contract is a put, call, chooser or undetermined.~~See PutOrCall(201).~~*Uses enumerations from PutOrCall(201)* |  |  |
| 1439 | FlowScheduleType(1439) | CHANGE | int | *Change as noted:*The industry standard flow schedule by which electricity or natural gas is traded. Schedules may exist by regions and on-peak and off-peak status, such as "Western Peak".*Add values:*tbd = All timestbd = On peaktbd = Off peaktbd = Basetbd = Blocktbd = Other |  |  |
| 1482 | OptPayoutType | CHANGE | int | *Change as noted:*Indicates the type of valuation method or payout trigger for ~~payout that will result from~~ an in-the-money option.1 = Vanilla2 = Capped3 = Digital (Binary)*Add values:*tbd = Asiantbd = Barriertbd = Digital Barriertbd = Lookbacktbd = Other path dependenttbd = Other |  |  |
| 1575 | SwapSubClass | CHANGE | String | *Change as noted:*The sub-classification or notional schedule type ~~subtype~~ of the swap.*Change as noted:*AMTZ = Amortizing Notional ScheduleCOMP = Compounding DEPRECATED - Use PaymentStreamCompoundingMethod(40747)*Add values:*CNST = Constant Notional ScheduleACRT = Accreting Notional ScheduleCUST = Custom Notional Schedule |  |  |
| 2028 | UnderlyingOptPayoutType | CHANGE | int | *Change as noted:*Indicates the type of valuation method or payout trigger for ~~payout that will result from~~ an in-the-money option. |  |  |
| 2156 | LegSwapSubClass | CHANGE | String | *Change as noted:*The sub-classification or notional schedule type ~~subtype~~ of the swap. |  |  |
| 2193 | LegOptPayoutType | CHANGE | int | *Change as noted:*Indicates the type of valuation method or trigger payout for ~~payout that will result from~~ an in-the-money option. |  |  |
| 2289 | UnderlyingSwapSubClass | CHANGE | String | *Change as noted:*The sub-classification or notional schedule type ~~subtype~~ of the swap. |  |  |

# Appendix B - Glossary Entries

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **Field where used** |
|  |  |  |
|  |  |  |
|  |  |  |

# Appendix C - Abbreviations

|  |  |  |
| --- | --- | --- |
| **Term** | **Proposed Abbreviation** | **Proposed Messages, Components, Fields where used** |
|  |  |  |
|  |  |  |

# Appendix D - Usage Examples

(no changes)