

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

DISCLAIMER

THE INFORMATION CONTAINED HEREIN AND THE FINANCIAL INFORMATION EXCHANGE PROTOCOL (COLLECTIVELY, THE "FIX PROTOCOL") ARE PROVIDED "AS IS" AND NO PERSON OR ENTITY ASSOCIATED WITH THE FIX PROTOCOL MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, AS TO THE FIX PROTOCOL (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF) OR ANY OTHER MATTER AND EACH SUCH PERSON AND ENTITY SPECIFICALLY DISCLAIMS ANY WARRANTY OF ORIGINALITY, ACCURACY, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SUCH PERSONS AND ENTITIES DO NOT WARRANT THAT THE FIX PROTOCOL WILL CONFORM TO ANY DESCRIPTION THEREOF OR BE FREE OF ERRORS. THE ENTIRE RISK OF ANY USE OF THE FIX PROTOCOL IS ASSUMED BY THE USER.

NO PERSON OR ENTITY ASSOCIATED WITH THE FIX PROTOCOL SHALL HAVE ANY LIABILITY FOR DAMAGES OF ANY KIND ARISING IN ANY MANNER OUT OF OR IN CONNECTION WITH ANY USER'S USE OF (OR ANY INABILITY TO USE) THE FIX PROTOCOL, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, LOSS OF DATA, LOSS OF USE, CLAIMS OF THIRD PARTIES OR LOST PROFITS OR REVENUES OR OTHER ECONOMIC LOSS), WHETHER IN TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY), CONTRACT OR OTHERWISE, WHETHER OR NOT ANY SUCH PERSON OR ENTITY HAS BEEN ADVISED OF, OR OTHERWISE MIGHT HAVE ANTICIPATED THE POSSIBILITY OF, SUCH DAMAGES.

**DRAFT OR NOT RATIFIED PROPOSALS** (REFER TO PROPOSAL STATUS AND/OR SUBMISSION STATUS ON COVER PAGE) ARE PROVIDED "AS IS" TO INTERESTED PARTIES FOR DISCUSSION ONLY. PARTIES THAT CHOOSE TO IMPLEMENT THIS DRAFT PROPOSAL DO SO AT THEIR OWN RISK. IT IS A DRAFT DOCUMENT AND MAY BE UPDATED, REPLACED, OR MADE OBSOLETE BY OTHER DOCUMENTS AT ANY TIME. THE FPL GLOBAL TECHNICAL COMMITTEE WILL NOT ALLOW EARLY IMPLEMENTATION TO CONSTRAIN ITS ABILITY TO MAKE CHANGES TO THIS SPECIFICATION PRIOR TO FINAL RELEASE. IT IS INAPPROPRIATE TO USE FPL WORKING DRAFTS AS REFERENCE MATERIAL OR TO CITE THEM AS OTHER THAN “WORKS IN PROGRESS”. THE FPL GLOBAL TECHNICAL COMMITTEE WILL ISSUE, UPON COMPLETION OF REVIEW AND RATIFICATION, AN OFFICIAL STATUS ("APPROVED") OF/FOR THE PROPOSAL AND A RELEASE NUMBER.

No proprietary or ownership interest of any kind is granted with respect to the FIX Protocol (or any rights therein).

Copyright 2003-2017 FIX Protocol Limited, all rights reserved.

Table of Contents

[Document History 6](#_Toc496173766)

[1 Introduction 7](#_Toc496173767)

[1.1 Summary of Proposed Changes 7](#_Toc496173768)

[1.1.1 RTS 2 Annex III – Liquidity assessment, LIS and SSTI thresholds for non-equity financial instrument 7](#_Toc496173769)

[1.1.2 Receiver versus Payer Swaption terminology 7](#_Toc496173770)

[1.1.3 Notional Schedule identification 7](#_Toc496173771)

[1.1.4 Return or Payout Trigger and Valuation Method 8](#_Toc496173772)

[2 Business Requirements 8](#_Toc496173773)

[2.1 RTS 2 Annex III – Liquidity assessment, LIS and SSTI thresholds for non-equity financial instrument 8](#_Toc496173774)

[2.1.1 Bonds (all bond types except ETCs and ETNs) – Segmentation Criteria 8](#_Toc496173775)

[2.1.2 Bonds (ETC and ETN type) – Segmentation Criteria 9](#_Toc496173776)

[2.1.3 Structured Finance Products – Segmentation Criteria 9](#_Toc496173777)

[2.1.4 Securitised Derivatives – Segmentation Criteria 9](#_Toc496173778)

[2.1.5 Interest Rate Derivatives – Segmentation Criteria 9](#_Toc496173779)

[2.1.6 Equity Derivatives – Segmentation Criteria 15](#_Toc496173780)

[2.1.7 Commodity Derivatives – Segmentation Criteria 18](#_Toc496173781)

[2.1.8 Foreign Exchange Derivatives – Segmentation Criteria 28](#_Toc496173782)

[2.1.9 Credit Derivatives – Segmentation Criteria 30](#_Toc496173783)

[2.1.10 C10 – Segmentation Criteria 31](#_Toc496173784)

[2.1.11 Contracts for Differences – Segmentation Criteria 32](#_Toc496173785)

[2.2 Receiver versus Payer Swaption terminology 33](#_Toc496173786)

[2.3 Notional Schedule identification 34](#_Toc496173787)

[2.4 Return or Payout Trigger and Valuation Method 34](#_Toc496173788)

[3 Issues and Discussion Points 35](#_Toc496173789)

[4 Proposed Message Flow 35](#_Toc496173790)

[5 FIX Message Tables 35](#_Toc496173791)

[6 FIX Component Blocks 35](#_Toc496173792)

[6.1 Component Instrument 36](#_Toc496173793)

[6.2 Component InstrumentLeg 37](#_Toc496173794)

[6.3 Component UnderlyingInstrument 38](#_Toc496173795)

[7 Category Changes 39](#_Toc496173796)

[Appendix A - Data Dictionary 40](#_Toc496173797)

[Appendix B - Glossary Entries 47](#_Toc496173798)

[Appendix C - Abbreviations 47](#_Toc496173799)

[Appendix D - Usage Examples 47](#_Toc496173800)

Table of Tables

[Table 1: CFI Return or Payout Trigger and Valuation Method 34](#_Toc496173801)

[Table 2: Issues and Discussions 35](#_Toc496173802)

Table of Figures

**No table of figures entries found.**

# 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> |
|  |  |  |  |
|  |  |  |  |

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/  PaymentStreamRateIndexCurve  Period(40792)   PaymentStreamRateIndexCurve  Unit(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/  UnderlyingPaymentStreamRate  Index(40620) |
| Term of underlying interest rate | UnderlyingInstrument/UnderelyingStreamGrp/  UnderlyingPaymentStream/ UnderlyingPaymentStreamFloatingRate/  UnderlyingPaymentStreamRateIndexCurve  Period(40623)   UnderlyingPaymentStreamRateIndexCurve  Unit(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/  UnderlyingPaymentStreamRate  Index(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 Swap  DVDNDSWAP = Dividend Swap  RTRNSWAP = Return Swap  TRS = Total Return Swap  VARSWAP = Variance Swap   AssetClass(1938)=4 (Equity) | Underlying type: single name, index, basket | Instrument/  AssetSubClass(1939)=  4 = Single name  11 = Equity Index  12 = 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 name  11 = Equity Index  12 = 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 = DRY  WETF = Wet |
| Freight sub-type: dry bulk carriers, tanker, containership | Instrument/  AssetSubType(2735)=  DBCR = Dry Bulk Carrier  TNKR = Tanker  CSHP = 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 - Others  CFI[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 - Price  CFI[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 Return  CFI[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 Synopsis  Required, short, one or two paragraph description of the component. | (no change) | |
| Component Elaboration  Optional 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 Synopsis  Required, short, one or two paragraph description of the component. | (no change) | |
| Component Elaboration  Optional 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 Synopsis  Required, short, one or two paragraph description of the component. | (no change) | |
| Component Elaboration  Optional 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 = Dividend  tbd = Variance  tbd = Volatility  tbd = Total return  tbd = Contract for difference  tbd = Credit default  tbd = Spread-bet  tbd = Price  tbd = Forward price of underlying instrument  tbd = 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 Notes  PRTFLIOSWAP = Portfolio Swap  SECDERIV = 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 amount  tbd = 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 times  tbd = On peak  tbd = Off peak  tbd = Base  tbd = Block  tbd = 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 = Vanilla  2 = Capped  3 = Digital (Binary)  *Add values:*  tbd = Asian  tbd = Barrier  tbd = Digital Barrier  tbd = Lookback  tbd = Other path dependent  tbd = 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 Schedule  COMP = Compounding DEPRECATED - Use PaymentStreamCompoundingMethod(40747)  *Add values:*  CNST = Constant Notional Schedule  ACRT = Accreting Notional Schedule  CUST = 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)