Derivatives Service Bureau (UPI) CHANGE REQUEST FORM

| Version | State | Author | Date | Description |
|---------|-------|--------|-------------|---|
| 1 | Draft | J. Lim | 19 Mar 2021 | Initial Document |
| 2 | Draft | J. Lim | 30 Mar 2021 | Updated Term of reference and additional information section |
| 3 | Draft | J. Lim | 16 Apr 2021 | Updated TOR, Template Layout, Attribute data dictionary, comments, references |
| 4 | Draft | J. Lim | 29 Apr 2021 | Update normalization for Reference Rate Term Value/Unit |
| 5 | Draft | J. Lim | 10 May 2021 | Additional note in normalization |
| 6 | Draft | J. Lim | 21 Jul 2021 | Updated attribute data dictionary and reference |

| Title | RATES SWAP Inflation Basis YoY Template Definition | | | | | | | |
|------------------|--|---------|--------------|--|--|--|--|--|
| Background | The following CRF presents a specification for the generation and retrieval of a | DSB-ID | UPI-0095 | | | | | |
| | Unique Product Identifier for the following product: | Туре | New Template | | | | | |
| | Rates : Swap : Inflation_Basis_YoY | Owner | J. Lim | | | | | |
| | | Version | 6 | | | | | |
| | | State | Draft | | | | | |
| Terms of Referen | ce | | | | | | | |
| Scope | This CRF specifies the product definition required for the generation / retrieval This CRF covers both the input (Request) and output (Record) templates. Support for local jurisdiction / alternate underlier identifier input is currently or Support for CFI 2019 values is currently out of scope. | | | | | | | |
| Requirements | The product definition will conform to ISO 4914 (UPI). Where possible, the product definition is to be based on the attributes, values and behaviour of the equivalent OTC ISIN. The product definition will return a product short name (FISN). All UPI records stored on the DSB RDL will include the ISO 10962 (CFI) code associated with the UPI along with an equivalent text value for all attributes that are included in the definition of the CFI. | | | | | | | |
| Dependencies | This specification is dependent on final sign-off of the ISO 4914 (UPI) specification. This specification is dependent on PC approval for the use of the OTC ISIN definitions as a basis for the UPI. This specification is dependent on PC approval for the inclusion of ISO 4914 (UPI) conditional attributes. This specification is dependent on TAC Approval for the DSB approach to ISO 10962 (CFI:2019) migration. This specification is dependent on the provision of a human-readable alias for the primary underlier for inclusion in the Short Name (FISN) and a human-readable alias for the Contract Specification. The format of the Short Name is dependent upon the outcome of the ISO 18774 (FISN) systematic review. | | | | | | | |
| Assumptions | This specification assumes that, unless stated, all values and behaviours are based on those of the equivalent OT ISIN product definition. This specification assumes that no input values are to be defaulted by the system. This specification is based on the current ISO 4914 (UPI) specification (CD) – including attributes that are not currently supported by the equivalent OTC ISIN. This specification is based on the DSB's current equivalent OTC ISIN product definition. This specification is based on the attributes and values defined in ISO 10962 (CFI:2015). In order to provide an example Short Name, this specification defines a format for this attribute that may not conform to the eventually agreed FISN format for the UPI. This specification assumes that the Short Name is defined using the same attributes (where available) as the OTC ISIN Short Name. Where possible, this specification derives GUI details from the ISO 4914 (UPI) specification for attributes that are not included in the current OTC ISIN product definition. | | | | | | | |

| • | The display information in the GUI for the existing attributes (and values) are taken from the OTC ISIN. If such |
|---|---|
| | information contains an "ISIN" in the description, replace the value into "UPI". |
| • | The specification for UPI does not include expiry date as part of the attributes, hence "expired" status does not |
| | apply. |

Request Template Layout

| Section | Attribute | Format | Cat | Example Value | Validation / Derivation | Enum Source | ORIGIN |
|-----------|-------------------------------------|---------|-----|---------------------|---|--------------------------|--------|
| | Asset Class | Set | М | Rates | | CFI:2015 Char#2 | ISIN |
| Header | Instrument Type | Set | Μ | Swap | | CFI 2015 Char#1 | ISIN |
| Section | Product | Set | Μ | Inflation_Basis_YoY | | | ISIN |
| | Level | Set | Μ | UPI | | | NEW |
| | Underlier ID | Enum | Μ | EUR-AI-CPI | FpmlRatesInflationRate.json | Fpml Coding Scheme 5.108 | NEW |
| | Underlier ID Source | String | Μ | FPML | [FPML] | internal | NEW |
| | Reference Rate Term Value | Integer | Μ | 3 | -999 to 999 (excluding 0) | | ISIN |
| | Reference Rate Term Unit | Enum | Μ | MNTH | [DAYS, WEEK, MNTH, YEAR] | ISO 20022 | ISIN |
| A | Other Leg Underlier ID | Enum | Μ | AUD-CPI | FpmlRatesInflationRate.json | Fpml Coding Scheme 5.108 | NEW |
| Attribute | Other Leg Underlier ID Source | String | Μ | FPML | [FPML] | internal | NEW |
| Section | Other Leg Reference Rate Term Value | Integer | Μ | 3 | -999 to 999 (excluding 0) | | ISIN |
| | Other Leg Reference Rate Term Unit | Enum | Μ | MNTH | [DAYS, WEEK, MNTH, YEAR] | ISO 20022 | ISIN |
| | Notional Currency | Enum | Μ | EUR | ISOCurrencyCode.json | ISO 4217 (3-Char CCY) | ISIN |
| | Notional Schedule | Enum | Μ | Constant | [Constant, Accreting, Amortizing, Custom] | CFI:2015 Char#4 (SR****) | ISIN |
| | Delivery Type | Enum | Μ | PHYS | [CASH, PHYS] | ISO 20022 | ISIN |

Record Template Layout

| Section | Attribute | Format | Cat | Example Value | Validation / Derivation | Enum Source | ORIGIN |
|--|-------------------------------------|---------|-----|----------------------|---|--------------------------|--------|
| | Asset Class | Set | М | Rates | | CFI:2015 Char#2 | ISIN |
| Section Header Section Attribute Section | Instrument Type | Set | М | Swap | | CFI 2015 Char#1 | ISIN |
| | Product | Set | М | Inflation_Basis_YoY | | | ISIN |
| | Level | Set | М | UPI | | | NEW |
| | Template Version | Integer | D | 1 | | | ISIN |
| | Reference Rate | Enum | М | AUD-CPI | FpmlRatesInflationRate.json | Fpml Coding Scheme 5.108 | ISIN |
| | Reference Rate Term Value | Integer | М | 3 | -999 to 999 (excluding 0) | | ISIN |
| | Reference Rate Term Unit | Enum | М | MNTH | [DAYS, WEEK, MNTH, YEAR] | ISO 20022 | ISIN |
| A 11 | Other Leg Reference Rate | Enum | М | EUR-AI-CPI | FpmlRatesInflationRate.json | Fpml Coding Scheme 5.108 | ISIN |
| | Other Leg Reference Rate Term Value | Integer | М | 3 | -999 to 999 (excluding 0) | | ISIN |
| Section | Other Leg Reference Rate Term Unit | Enum | М | MNTH | [DAYS, WEEK, MNTH, YEAR] | ISO 20022 | ISIN |
| | Notional Currency | Enum | М | EUR | ISOCurrencyCode.json | ISO 4217 (3-Char CCY) | ISIN |
| | Notional Schedule | Enum | М | Constant | [Constant, Accreting, Amortizing, Custom] | CFI:2015 Char#4 (SR****) | ISIN |
| | Delivery Type | Enum | М | PHYS | [CASH, PHYS] | ISO 20022 | ISIN |
| | UPI | String | D | QZGL6GW92T52 | See UPI Document (UPI Code structure and Annex C) | ISO 4914 | NEW |
| Identifier | Status | String | D | New | | | ISIN |
| Section | Status Reason | String | D | <null></null> | Not applicable to a New record | | ISIN |
| | Last Update Date Time | DdTm | D | 2021-02-23T00:00:13 | YYYY-MM-DDThh:mm:ss | | ISIN |
| | Classification Type | String | D | SRGCSP | See CRF (Derivations) | ISO 10962:2015 | ISIN |
| Derived | Short Name | String | D | NA/Swap Infl Idx EUR | See CRF (Derivations) | ISO 18774: 2015 | NEW |
| Section | Underlying Asset Type | String | D | Inflation Rate Index | Fixed value | CFI:2015 Char#3 (SRG***) | ISIN |
| Section | Single or Multiple Currency | String | D | Single Currency | Fixed value | CFI:2015 Char#5 (SR**S*) | ISIN |
| | CFI Delivery Type | String | D | Physical | See CRF (Derivations) | CFI:2015 Char#6 (SR****) | NEW |

| Product Definition | | | | | | | | |
|--------------------|------------------------------------|---|---|--|--|--|--|--|
| Attributes | See Template Layout (above). | | | | | | | |
| Validation | See Template Layout (above). | | | | | | | |
| Attribute Data | This section provides the exact re | act reference or source of the attribute. | | | | | | |
| Dictionary | Full Name | Source | Туре | | | | | |
| | Reference Rate | FpML Coding Schemes 19 February 2021 | Max25Text (based on string) minLength: 1 maxLength: 25 | | | | | |
| | Reference Rate Term Value | Integer – Positive or negative but not 0 | Max3Number (based on | | | | | |

| | | | | | decimal) fractionDigits: 0 totalDigits: 3 |
|---------------|---|---|---|---|---|
| | Reference Rate Term Unit | ISO 20022 FinancialInstru | umentReportingRe | Max35Text (based on string) minLength: 1 maxLength: 35 | |
| | Other Leg Reference Rate | FpML Coding S | Schemes 19 Febru | Max25Text (based on string) minLength: 1 maxLength: 25 | |
| | Other Leg Reference Rate Term Value | Integer – Posit | ive or negative bu | Max3Number (based on decimal) fractionDigits: 0 totalDigits: 3 | |
| | Other Leg Reference Rate Term Unit | ISO 20022 FinancialInstru | umentReportingRe | Max35Text (based on string) minLength: 1 maxLength: 35 | |
| | Notional Currency | ISO 4217 Curre | ency Codes | | Pattern: [A-Z]{3,3} |
| | Notional Schedule | ISO 10962 Clas code) | ssification of finan | cial instruments (CFI | Enums [Constant; Accreting; Amortizing; Custom] |
| | Delivery Type | ISO 20022 FinancialInstru | ımentReportingRe | Enums [CASH; PHYS] | |
| | CFI Delivery Type | ISO 10962 Clas code) | ssification of finan | cial instruments (CFI | Enums [Cash; Physical] |
| Normalization | Reference Rate Term Value/ Other Reference Rate Term Unit/ Other Reference Rate Term Unit/ Other Reference Rate Term Unit D# • If Reference Rate Term Unit/ Other Reference Rate Term Value/ Other Reference Rate Term Value/ Reference Rate Term Value/ Other Reference Rate Term Unit D# 2. Reference Rate Term Unit/ Other Reference Rate Term Unit MM 2. Reference Rate Term Unit/ Other Reference Rate Term Unit MM 2. Reference Rate Term Unit/ Other Reference Rate Term Unit MM 2. Reference Rate Term Unit/ Other Reference Rate Term Unit MM 2. Reference Rate Term Unit MM Other Reference Rate Term Unit MM MM 0 Order the "Reference Rate" If the "Reference Rate" • If the "Reference Rate Term Value Reference Rate Term Value Reference Rate Term Unit Other Leg Reference Rate Term Unit Other Leg Reference Rate Term Other Leg Reference Rate Term Other Leg Reference Rate Term Unit If the Reference rate and O singular UPI is returned for • If the Term unit is the s MM If the Term unit is the s | Unit = "DAYS" a Reference Ra Other Reference Ra Other Reference Ra Other Reference Ra Other Reference Ra Other Reference Ra Cother Reference Ra Other Reference Ra Reference rate and r a same set of a Rate" and "Other ' is first alphabet ' is not first alpha | and Reference Rate te Term Value/ nce Rate Term Unit/ te Term Unit/ and Reference Rate ate Term Value/ nce Rate Term Value/ and Reference Rate ate Term Value/ nce Rate Term Value ate Term Value/ nce Rate Term Unit/ ence Rate Term Unit/ ence Rate Term Unit/ other reference Rate" ically, then record abetically, then record Other Leg Reference The Term Value rate are identical, " ributes. the Term Value r | 1 YEAR alphabetically. alphabetically. I it as "Reference Rate". cord the fields as below: e Rate e Rate Term Value e Rate Term Unit m Value m Unit | e by 12, record it in years need to normalize to ensure will normalize to ensure that |

| | equival Referen Referen Other Lu Other Lu | = 30 365 y the number of Tern ent value numerically ce Rate ce Rate Term Value ce Rate Term Unit eg Reference Rate eg Reference Rate Term Val eg Reference Rate Term Un | y from lowest to hig AUD-LIBOR-BBA 15 DAYS AUD-LIBOR-BBA lue 1 it WEEK | hest → | Reference Rate AUD-LIBOR-BBA Reference Rate Term Value 1 Reference Rate Term Unit WEEK Dther Leg Reference Rate AUD-LIBOR-BBA Dther Leg Reference Rate Term Value 15 Dther Leg Reference Rate Term Unit DAYS | | | | | |
|-------------|--|--|--|-----------------------------------|--|----------------------|--|--|--|--|
| | based o | on the order term mu | ltiplier, the details f | or th | ference Rate Term Value/Unit e said attributes will be as is ir | the record template. | | | | |
| Derivation | This section provi Classification Type | Concatenation of th Instrument Asset Class Underlyin Notional S - Cons - Accru- - Amo - Cust | the following attribut nt Type: ss: ng Asset Type: Schedule: stant $\rightarrow C$ eting $\rightarrow I$ ortizing $\rightarrow D$ ord $\rightarrow Y$ Multi-Currency: Type: $H \rightarrow C$ | es/v "S" "R" "G" fron | pecified in the Template Layon alues: n Request.Notional Schedule | ut sections (above). | | | | |
| | Short Name | i. ii. iii. iv. E.g.: "NA/Swap Infl | Name is based on the OTC ISIN that excludes the following fields: | | | | | | | |
| | CFI Delivery Type | | | | | | | | | |
| GUI Details | The following section provides display information for any attributes (and values) that are not included in the related OTC ISIN definition. | | | | | | | | | |
| | Attribute | Display Name | Tool Tip (and • value elaboration) | | | | | | | |
| | Underlier ID | | An identifier that can be used to determine the asset(s), index (indices) or benchmark underlying a contract or, in the case of a foreign exchange derivative, identification of the currency pair or index | | | | | | | |
| | Underlier ID Source | Underlier ID Source | The origin, or publisher, of the associated underlier ID. | | | | | | | |
| | Other Leg Underlier ID | | Inderlier ID An identifier that can be used to determine the asset(s), index (indices) or benchmark underlying a contract or, in the case of a foreign exchange derivative, identification of the currency pair or index | | | | | | | |
| | Other Leg Underlier ID Source | Underlier ID Source | The origin, or publisher, of the associated underlier ID. | | | | | | | |
| | UPI Identification Unique Product Identifier (ISO 4914). | | | | | | | | | |

| | | Type as defined b by CFI Code: ISO | y CFI code: ISO 10962 10962 | | | | | | | |
|------------------|---|---------------------------------------|--|---|--|--|--|--|--|--|
| Additional Infor | mation | | | | | | | | | |
| Reference | References to external documents can be found on the DSB website at this address [https://www.anna-dsb.com/upi- external-reference-documents/]. | | | | | | | | | |
| Comments | Text values in the Short Name are taken from "ISO Abbrev w acronyms-Final_v0.5.5.FINAL." Existing OTC ISIN product definition methodology in Short Name abbreviation for Underlying Asset Type – Inflation Rate Index, ISO abbreviation "Infl Idx" is applied. However, text values in "ISO Abbrev w acronyms- Final_v0.5.5.FINAL" shows "Infl Rt Idx". Existing OTC ISIN product definition methodology of the Short Name abbreviation (Issuer of TV + "/" + Instrument Type) for Equity Asset Class has "NA/Swaps" whereas Rates has "NA/Swap". | | | | | | | | | |
| ISO 4914 | ISO 4914 | | Request Attribute | Record Attribute | | | | | | |
| Equivalence | Asset Class | М | Asset Class | Asset Class | | | | | | |
| | Instrument Type | М | Instrument Type | Instrument Type | | | | | | |
| | Currency associated with an underlying reference rate | М | Notional Currency | Notional Currency | | | | | | |
| | | м | Delivery Type | Delivery Type | | | | | | |
| | Delivery Type | | | CFI Delivery Type | | | | | | |
| | Notional Schedule | М | Notional Schedule | Notional Schedule | | | | | | |
| | Single or Multi Currency | М | Not Required | Single or Multi Currency | | | | | | |
| | | С | Underlier ID | Reference Rate | | | | | | |
| | Underlier ID | С | Other Leg Underlier ID | Other Leg Reference Rate | | | | | | |
| | | С | Underlier ID source | Not Required | | | | | | |
| | Underlier ID source | С | Other Leg Underlier ID Source | Not Required | | | | | | |
| | Underlier Type | М | Not Required | Underlying Asset Type | | | | | | |
| | Underlying rate index tenor period | С | Reference Rate Term Unit | Reference Rate Term Unit | | | | | | |
| | | С | Other Leg Reference Rate Term Unit | Other Leg Reference Rate Term Unit | | | | | | |
| | Underlying rate index tenor period multiplier | С | Reference Rate Term Value | Reference Rate Term Value | | | | | | |
| | | С | Other Leg Reference Rate Term Value | Other Leg Reference Rate Term Value | | | | | | |