Derivatives Service Bureau (UPI)

CHANGE REQUEST FORM

Version	State	Author	Date	Description
1	Draft	M. Surop	10 March 2021	Initial Document
2	Draft	M. Surop	23 March 2021	Amended Identifier Section in Record Template Layout to UPI instead of Identifier. Added UPI attribute in GUI Details.
3	Draft	M. Surop	29 March 2021	Amended ISO reference in Terms of Reference Section. Amended UPI Enum Source in Record Template Layout. Added Notes in Short Name (FISN) Derivation Section for the excluded values.
4	Draft	M. Surop	16 April 2021	Additional Assumptions for UPI information description and removal of "Expired" enum elaboration status. Inserted Attribute Data Dictionary. Amended Requirement statement.
5	Draft	M. Surop	19 July 2021	Removed active hyperlinks in Data Dictionary; Amended References section with standard text; Removed Short Name comment in the Comment section.

Title	RATES SWAP Inflation Swap Template Definition							
Background	The following CRF presents a specification for the generation and retrieval of a	DSB-ID	UPI-0070					
	Unique Product Identifier for the following product:	Туре	New Template					
	Rates : Swap : Inflation_Swap	Owner	M. Surop					
			5					
		State	Draft					
Terms of Reference	ce							
Scope	 This CRF specifies the product definition required for the generation / retrieval of a UPI only. This CRF covers both the input (Request) and output (Record) templates. Support for local jurisdiction / alternate underlier identifier input is currently out of scope. 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 OTC 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 (SR****)	ISIN
Header Section	Instrument Type	Set	M	Swap		CFI:2015 Char#1 (SR****)	ISIN
neader Section	Product	Set	M	Inflation_Swap			ISIN
	Level	Set	М	UPI			NEW
	Underlier ID	Enum	М	UK-RPI	FpmlRatesInflationRate.json	FpML Coding Scheme 5.108	NEW
	Underlier ID Source	String	М	FPML	[FPML]	Internal	NEW
	Reference Rate Term Value	Integer	М	2	-999 to 999 (excluding 0)		ISIN
Attribute Section	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

Record Template Layout

Section	Attribute	Format	Cat	Example Value	Validation / Derivation	Enum Source	Origin
Header Section	Asset Class	Set	М	Rates		CFI:2015 Char#2 (SR****)	ISIN
	Instrument Type	Set	М	Swap		CFI:2015 Char#1 (SR****)	ISIN
	Product	Set	М	Inflation_Swap			ISIN
	Level	Set	М	UPI			NEW
	Template Version	Integer	D	1			ISIN
	Reference Rate	Enum	М	UK-RPI	FpmlRatesInflationRate.json	FpML Coding Scheme 5.108	ISIN
	Reference Rate Term Value	Integer	М	2	-999 to 999 (excluding 0)		ISIN
	Reference Rate Term Unit	Enum	М	MNTH	[DAYS, WEEK, MNTH, YEAR]	ISO 20022	ISIN
Attribute Section	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	QZ4Q8ZXMT8Q7	UPI	ISO 4914	NEW
	Status	String	D	New			ISIN
dentifier Section	Status Reason	String	D	<null></null>	Not applicable to a New record		ISIN
	Last Update Date Time	DtTm	D	2021-03-10T03:20:31	YYYY-MM-DDThh:mm:ss		ISIN
	Classification Type	String	D	SRGCSP	See CRF (Derivations)		ISIN
Derived Section	Short Name	String	D	NA/Swap Infl Idx EUR	See CRF (Derivations)	ISO 18774	NEW
	Underlying Asset Type	String	D	Inflation Rate Index	Fixed value	CFI:2015 Char#3 (SRG***)	ISIN
	Single or Multi Currency	String	D	Single Currency	Fixed value	CFI:2015 Char#5 (SR**S*)	ISIN
	CFI Delivery Type	String	D	[Cash, Physical]	See CRF (Derivations)	CFI:2015 Char#6 (SR****)	NEW

Product Definition							
Attributes	See Template Layout (above).						
Validation	See Template Layout (above).						
Normalization	 1. Reference Rate Term Value and Reference Rate Term Unit If Reference Rate Term Unit = "DAYS" and Reference Rate Term Value is divisible by 7, record it in weeks: Reference Rate Term Value 7 Reference Rate Term Unit DAYS If Reference Rate Term Unit = "MNTH" and Reference Rate Term Value is divisible by 12, record it in years: Reference Rate Term Value 12 Reference Rate Term Unit MNTH YEAR 						
Attribute Data Dictionary	This section provides the exact reference or source of the attribute.						
Dictionally	Full Name	Туре					

	Delivery Type	ISO 20022 FinancialIns	trumentReportingReferenceDataReportV01	Enums [CASH, PHYS]	
	CFI Delivery Type	ISO 10962 C code)	Classification of financial instruments (CFI	Enums [Cash, Physical]	
	Notional Currency	ISO 4217 Cu	ırrency Codes	Pattern: [A-Z]{3,3}	
	Notional Schedule	ISO 10962 C code)	Classification of financial instruments (CFI	Enums [Constant, Accreting, Amortizing, Custom]	
	Reference Rate	FpML Codin	g Scheme	Max350Text (based on string) minLength: 1 maxLength: 350	
	Reference Rate Te Unit		trumentReportingReferenceDataReportV01	Enums [DAYS, WEEK, MNTH, YEAR]	
	Reference Rate Te Value	erm Integer – Po	ositive or negative but not 0	Max3Number (based on decimal) fractionDigits: 0 totalDigits: 3	
Derivation	This section provide	es additional details to	o the derivation logic specified in the Templa	te Layout sections (above).	
	Classification Type Short Name	Instrumer Asset Clas Underlyin Notional S Cons Accre Amo Custe Single or I Delivery T CASH PHYS E.g.: "SRGCSP" Concatenation of th Issuer: Instrumer Underlyin Notional G E.g.: "NA/Swap Infl Note: The Short Nar	SS: "R" Ing Asset Type: "G" Schedule: from Request.Notional Stant \rightarrow C Leting \rightarrow I Intrizing \rightarrow D $om \rightarrow$ Y Multi-Currency: "S" Type: from Request.Delivery Type: $H \rightarrow$ C	/pe 7 input value	
	CFI Delivery Type Derived from the input Delivery Type • CASH → "Cash" • PHYS → "Physical"				
GUI Details	The following section provides display information for any attributes (and values) that are not included in t OTC ISIN definition.				
	Attribute	Display Name	Tool Tip (and • value elaboration)		
	Underlier ID	Underlier ID	ier ID An identifier that can be used to determine the asset(s), index (indices) underlying a contract or, in the case of a foreign exchange derivative, in the currency pair or index.		
	Underlier ID Source	Underlier ID Source	Source The origin, or publisher, of the associated underlier ID.		
	UPI Identification Unique Product Identifier (ISO 4914).				

	CFI Delivery Type	CFI Delivery Type	The Delivery Type as defined by CFI code: ISO 10962 • As defined by CFI Code: ISO 10962							
Additional Inform	nation									
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	 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". 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". 									
ISO 4914 Equivalence	ISO 4914				Request Attribute	Record Attribute				
Equivalence	Asset Class			М	Asset Class	Asset Class				
	Instrument Type	9		М	Instrument Type	Instrument Type				
	Currency associated reference rate	ated with an underlyin	ıg	М	Notional Currency	Notional Currency				
	2 11 -			М		Delivery Type				
	Delivery Type				Delivery Type	CFI Delivery Type				
	Notional Schedu	ıle		М	Notional Schedule	Notional Schedule				
	Single or Multip	le Currency		М	Not Required	Single or Multi Currency				
	Underlier ID			С	Underlier ID	Reference Rate				
	Underlier ID sou	irce		С	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				
	Underlying rate	index tenor period mu	ultiplier	С	Reference Rate Term Value	Reference Rate Term Value				