Derivatives Service Bureau (UPI) CHANGE REQUEST FORM

Version	State	Author	Date	Description
1	Draft	J. Lim	11 Mar 2021	Initial Document
2	Draft	J. Lim	30 Mar 2021	Updated Term of reference, GUI details and additional information section
3	Draft	J. Lim	16 Apr 2021	Updated TOR, Template Layout, Attribute data dictionary, comments, references and ISO 4914 equivalence
4	Draft	J. Lim	21 Jul 2021	Updated attribute data dictionary and reference

Title	RATES SWAP Inflation Fixed Float YoY Template Definition							
Background	The following CRF presents a specification for the generation and retrieval of a	DSB-ID	UPI-0072					
	Unique Product Identifier for the following product:	Туре	New Template					
	Rates : Swap : Inflation_Fixed_Float_YoY	Owner	J.Lim					
		Version	4					
		State	Draft					
Terms of Reference	e		-					
Scope	 This CRF specifies the product definition required for the generation / retrieval of This CRF covers both the input (Request) and output (Record) templates. Support for local jurisdiction / alternate underlier identifier input is currently ou 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 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". 							

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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	М	Swap		CFI 2015 Char#1	ISIN
Section	Product	Set	М	Inflation_Fixed_Float_YoY			ISIN
	Level	Set	М	UPI			NEW
	Underlier ID	Enum	Μ	EUR-AI-CPI	FpmlRatesInflationRate.json	Fpml Coding Scheme 5.108	ISIN
	Underlier ID Source	String	М	FPML	[FPML]	internal	ISIN
	Reference Rate Term Value	Integer	Μ	3	-999 to 999 (excluding 0)		ISIN
Attribute	Reference Rate Term Unit	Enum	М	MNTH	[DAYS, WEEK, MNTH, YEAR]	ISO 20022	ISIN
	Notional Currency	Enum	Μ	EUR	ISOCurrencyCode.json	ISO 4217 (3-Char CCY)	ISIN
	Notional Schedule	Enum	М	Constant	[Constant, Accreting, Amortizing, Custom]	CFI:2015 Char#4 (SR****) ISO 10962:2015	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	Asset Class	Set	М	Rates		CFI:2015 Char#2	ISIN
	Instrument Type	Set	М	Swap		CFI 2015 Char#1	ISIN
	Product	Set	М	Inflation_Fixed_Float_YoY			ISIN
Section	Level	Set	М	UPI			NEW
	Template Version	Integer	D	1			ISIN
	Reference Rate	Enum	М	EUR-AI-CPI	FpmlRatesInflationRate.json	Fpml Coding Scheme 5.108	ISIN
	Reference Rate Term Value	Integer	М	3	-999 to 999 (excluding 0)		ISIN
Attribute	Reference Rate Term Unit	Enum	М	MNTH	[DAYS, WEEK, MNTH, YEAR]	ISO 20022	ISIN
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****) ISO 10962:2015	ISIN
	Delivery Type	Enum	М	PHYS	[CASH, PHYS]	ISO 20022	ISIN
	UPI	String	D	QZGF63K72828	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 Section	Short Name	String	D	NA/Swap Infl Idx EUR	See CRF (Derivations)	ISO 18774: 2015	NEW
	Underlying Asset Type	String	D	Inflation Rate Index	Fixed value	CFI:2015 Char#3 (SRG***) ISO 10962:2015	ISIN
	Single or Multiple Currency	String	D	Single Currency	Fixed value	CFI:2015 Char#5 (SR**S*) ISO 10962:2015	ISIN
	CFI Delivery Type	String	D	Physical	See CRF (Derivations)	CFI:2015 Char#6 (SR****) ISO 10962:2015	NEW

Product Definition							
Attributes	See Template Layout (above).						
Validation	See Template Layout (above).						
Attribute Data Dictionary	This section provides the exact reference or source of the attribute.						
	Full Name Source Type						
	Reference Rate	FpML Coding Schemes 19 February 2021	Max25Text (based on string) minLength: 1 maxLength: 25				
	Max3Number (based on decimal) fractionDigits: 0 totalDigits: 3						

	Reference Rate Term Unit		ISO 20022 FinancialInstrumentReportingReferenceDataReportV01	Max35Text (based on string) minLength: 1 maxLength: 35			
	Notional Currence	ý	ISO 4217 Currency Codes	Pattern: [A-Z]{3,3}			
	Notional Schedul		ISO 10962 Classification of financial instruments (CFI code)	Enums [Constant; Accreting; Amortizing; Custom]			
	Delivery Type		ISO 20022 FinancialInstrumentReportingReferenceDataReportV01	Enums [CASH; PHYS]			
	CFI Delivery Type		ISO 10962 Classification of financial instruments (CFI code)	Enums [Cash; Physical]			
Normalization	If Refer Reference Reference If Refer Reference	ence Rate Term U Rate Term Value Rate Term Unit	The second state of the second sta				
Derivation	This section provi	des additional det	ails to the derivation logic specified in the Template Layo	out sections (above).			
	Classification Type	 Instrur Asset 0 Under Notion Control A A Control Single Delive Control 	of the following attributes/values:rument Type:"S"rument Type:"S"et Class:"R"erlying Asset Type:"G"onal Schedule:from Request.Notional ScheduleConstant \rightarrow CAccreting \rightarrow IAmortizing \rightarrow DCustom \rightarrow Custom \rightarrow Yle or Multi-Currency:"S"very Type:from Request.Delivery TypeCASH \rightarrow CPHYS \rightarrow P				
	Short Name	i i E.g.: "NA/Swap I Note: The Short	i. Instrument Type: "Swap" (fixed value) ii. Underlying Asset Type: "Infl Idx" (fixed value) v. Notional Currency: e.g., EUR - from ISO 422				
	Type • CAS		the input Delivery Type 5H → "Cash" /S → "Physical"				
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 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, c	The origin, or publisher, of the associated underlier ID. Unique Product Identifier (ISO 4914).						
	UPI	Identification	Unique Proc							
	CFI Delivery Type	CFI Delivery Type The Delivery Type as def • As defined by CFI Code			ned by CFI code: ISO 10962 :: ISO 10962					
Additional Info	rmation									
Reference	References to external documents can be found on the DSB website at this address [<u>https://www.anna-dsb.com/upi-external-reference-documents/</u>].									
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 T	/pe		М	Instrument Type	Instrument Type				
	Currency asso reference rate	ociated with an und e	lerlying	М	Notional Currency	Notional Currency				
				м		Delivery Type				
	Delivery Type				Delivery Type	CFI Delivery Type				
	Notional Sche	edule		М	Notional Schedule	Notional Schedule				
	Single or Mul	ti Currency		М	Not Required	Single or Multi Currency				
	Underlier ID			С	Underlier ID	Reference Rate				
	Underlier ID s	ource		С	Underlier ID source	Not Required				
	Underlier Typ	e		М	Not Required	Underlying Asset Type				
	Underlying ra	te index tenor peri	od	С	Reference Rate Term Unit	Reference Rate Term Unit				
	Underlying ra multiplier	te index tenor peri	od	С	Reference Rate Term Value	Reference Rate Term Value				