Derivatives Service Bureau (UPI)

CHANGE REQUEST FORM

Version	State	Author	Date	Description
1	Initial Draft	M. Surop	24 March 2021	Initial Document
2	Draft	M. Surop	21 April 2021	Updated ToR & GUI details, inserted Attribute Data Dictionary
3	Draft	M. Surop	28 June 2021	Updated error message for ISIN validation
4	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.
5	Draft	M. Surop	24 Sept 2021	Updated error message for ISIN Validation

Title	EQTY SWAP Price Return Basic Performance Single Name Template Definition				
Background	The following CRF presents a specification for the generation and retrieval of a	DSB-ID	UPI-0100		
	Unique Product Identifier for the following product:	Туре	New Template		
	Equity : Swap : Price_Return_Basic_Performance_Single_Name	Owner	M. Surop		
			5		
		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 o 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 bat 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) – incommon the currently supported by the equivalent OTC ISIN. This specification is based on the DSB's current equivalent OTC ISIN product defaulted. This specification is based on the attributes and values defined in ISO 10962 (Common to the eventually agreed FISN format for the UPI. This specification as 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) short included in the current OTC ISIN product definition. 	em. cluding attribu efinition. EFI:2015). If for this attributes ssumes that the.	utes that are not oute that may not ne Short Name is		

- 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	Equity		CFI:2015 Char#2 (SE****)	ISIN
Header Section	Instrument Type	Set	M	Swap		CFI:2015 Char#1 (SE****)	ISIN
neader Section	Product	Set	M	Price_Return_Basic_Performance_Single_Name			ISIN
	Level	Set	M	UPI			NEW
	Underlier ID	Enum	М	AU000000WAF6	See CRF (Validations)		NEW
Attribute Section	Underlier ID Source	String	М	ISIN	[ISIN]	Internal	NEW
	Return or Payout Trigger	Enum	M	Price	[Price, Total Return, Other]	CFI:2015 Char#4 (SE****)	ISIN
	Delivery Type	Enum	M	PHYS	[CASH, PHYS, OPTL]	ISO 20022	ISIN

Record Template Layout

Section	Attribute	Format	Cat	Example Value	Validation / Derivation	Enum Source	Origin
	Asset Class	Set	М	Equity		CFI:2015 Char#2 (SE****)	ISIN
	Instrument Type	Set	М	Swap		CFI:2015 Char#1 (SE****)	ISIN
Header Section	Product	Set	М	Price_Return_Basic_Performance_Single_Name			ISIN
	Level	Set	M	UPI			NEW
	Template Version	Integer	D	1			ISIN
	Underlying Instrument ISIN	String	М	AU000000WAF6	See CRF (Validations)		ISIN
Attribute Section	Return or Payout Trigger	Enum	M	Price	[Price, Total Return, Other]	CFI:2015 Char#4 (SE****)	ISIN
	Delivery Type	Enum	М	PHYS	[CASH, PHYS, OPTL]	ISO 20022	ISIN
	UPI	String	D	QZ2SJ6GMHLV3	UPI	ISO 4914	NEW
Identifier Section	Status	String	D	New			ISIN
identifier Section	Status Reason	String	D	<null></null>	Not applicable to a New record		ISIN
	Last Update Date Time	DtTm	D	2021-03-24T03:24:10	YYYY-MM-DDThh:mm:ss		ISIN
	Classification Type	String	D	SESPXP	See CRF (Derivations)	ISO 10962: 2015	ISIN
Derived Section	Short Name	String	D	NA/Swaps Sgle Stk Pr	See CRF (Derivations)	ISO 18774: 2015	NEW
Derived Section	Underlying Asset Type	String	D	Single Stock	Fixed value	CFI:2015 Char#3 (SES***)	ISIN
	CFI Delivery Type	String	D	Physical	See CRF (Derivations)	CFI:2015 Char#6 (SE****)	NEW

Product Definition								
Attributes	See Template Layout (above).							
Validation	 1. Underlier ID The following validation will apply for Underlying Instrument ISIN: The input text by user must be in 12 characters (2 alpha, 9 alphanumeric, 1 numeric). The input text must not have a prefix of "QZ" or "EZ". A syntactic validation is being performed to confirm an ISIN when hitting create. If the input ISIN is not aligned with the above pattern before hitting create, an error message will apply "Value must match the pattern ^(?!(EZ QZ))[A-Z]{2}[A-Z0-9]{9}[0-9]\$." If the input ISIN is less or more than 12 characters after hitting create and is not aligned with the above pattern, an error message will apply "Error: /Attributes/UnderlierID/0: ECMA 262 regex "^(?!(EZ QZ))[A-Z]{2}[A-Z0-9]{9}[0-9]\$" does not match input string "[user input]". If the input ISIN is aligned with the pattern criteria but ISIN value does not conformed with syntactic validation, an error message will apply "Error: ISIN/s must be valid". 							
Normalization	Not required.							
Attribute Data	This section provides the exact reference or source of the attribute.							
Dictionary	Full Name	Source	Туре					
	Delivery Type	ISO 20022 FinancialInstrumentReportingReferenceDataReportV01	Enums [CASH, PHYS, OPTL]					
	CFI Delivery Type	ISO 10962 Classification of financial instruments (CFI code)	Enums [Cash, Physical, Elect at Settlement]					
	Return or Payout Trigger	ISO 10962 Classification of financial instruments (CFI code)	Enums [Price, Total Return, Other]					
	Max of 12 text (pattern) [A-Z] – firsts 2 characters							

					[A-Z], [0-9] — Next 9 characters [0-9] — Last value is based on ISIN calculation			
Derivation	This section provides additional details to the derivation logic specified in the Template Layout sections (above).							
	Classification Type Concatenation of the following attributes/values: Instrument Type: "S" Asset Class: "E" Underlying Asset Type: "S" Return or Payout Trigger: from Request.Return or Payout Trigger Price → P Total Return → T Other → M Not applicable/undefined: "X" Delivery Type: from Request.Delivery Type CASH → C PHYS → P OPTL → E E.g.: "SESPXP"							
	Short Name	Concatenation of the following attributes/values: Issuer: "NA/" Instrument Type: "Swaps" (fixed value) Underlying Asset Type: "Sgle Stk" (fixed value) Return or Payout Trigger: "Pr" (if input value is Price) "Tot Rtn" (if input value is Total Return) "Oth" (if input value is Other) E.g.: "NA/Swaps Sgle Stk Pr" Note: The Short Name is based on the OTC ISIN that excludes the following fields: Notional Currency Expiry Date						
	CFI Delivery Type	Derived from the in CASH → PHYS → OPTL →	put Delivery Type.	"Cash" "Physical" "Elect at Settlement"				
GUI Details	The following section OTC ISIN definition.		formation for any	attributes (and values) that a	are not included in the related			
	Attribute	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, 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 Infor	mation							
Reference		erences to external documents can be found on the DSB website at this address [https://www.anna-dsb.com/upi-ernal-reference-documents/].						
Comments	Currently the system does not hold reference data to support the validation of the LEI or ISIN. This means that it is not possible to validate the existence or classification of the Underlier ID. In addition, this means that human readable alias is not currently supported for inclusion in the Short Name attribute.							

- 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 of the Short Name includes the Underlying Asset Type abbreviation (Sgle Stk) if the Return or Payout Trigger is a Price or Other, (e.g. "NA/Swaps **Sgle Stk** Pr" or "NA/Swaps **Sgle Stk** Oth") whereas Underlying Asset Type abbreviation is excluded if the Return or Payout Trigger is a Total Return (e.g. "NA/Swaps Tot Rtn").

ISO 4914 Equivalence

ISO 4914		Request Attribute	Record Attribute	
Asset Class	М	Asset Class	Asset Class	
Instrument type	М	Instrument Type	Instrument Type	
Dell'armatana	М	Delivery Type	Delivery Type	
Delivery type			CFI Delivery Type	
Return, pricing method or payout trigger	М	Return or Payout Trigger	Return or Payout Trigger	
Underlier ID	С	Underlier ID	Underlying Instrument ISIN	
Underlier ID source	С	Underlier ID Source	Not Required	
Underlier type	М	Not Required	Underlying Asset Type	