Derivatives Service Bureau (UPI)

CHANGE REQUEST FORM

Version	State	Author	Date	Description	
1	Draft	J. Lim	29 Mar 2021	Initial Document	
2	Draft	J. Lim	22 Apr 2021	Updated requirements, assumptions, attribute data dictionary, comments and reference	
3	Draft	J. Lim	30 Jun 2021	Updated validation message	
4	Draft	J. Lim	21 Jul 2021	Updated attribute data dictionary and reference	

Title	EQUITY SWAP Price Return Basic Performance Single Name CFD Template Definition							
Background	The following CRF presents a specification for the generation and retrieval of a Unique Product Identifier for the following product:	DSB-ID	UPI-0114					
		Туре	New Template					
	Equity: Swap: Price_Return_Basic_Performance_Single_Name_CFD	Owner	J.Lim					
		Version	4					
		State	Draft					
Terms of Reference	e							
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 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	Equity		CFI:2015 Char#2	ISIN
Header	Instrument Type	Set	М	Swap		CFI 2015 Char#1	ISIN
Section	Product	Set	М	Price_Return_Basic_Performance_Single_Name_CFD			ISIN
	Level	Set	М	UPI			NEW
l Attribute	Underlier ID	String	М	HK0000004389	See CRF (Validations)		NEW
	Underlier ID Source	String	М	ISIN	See CRF (Validations)	internal	NEW
	Delivery Type	Enum	М	CASH	[CASH, PHYS,OPTL]	ISO 20022	ISIN

Record Template Layout

Product Definition

Section	Attribute	Format	Cat	Example Value	Validation / Derivation	Enum Source	ORIGIN
Header	Asset Class	Set	М	Equity		CFI:2015 Char#2	ISIN
	Instrument Type	Set	М	Swap		CFI 2015 Char#1	ISIN
	Product	Set	М	Price_Return_Basic_Performance_Single_Name_CFD			ISIN
Section	Level	Set	М	UPI			NEW
	Template Version	Integer	D	1			ISIN
Attribute	Underlying Instrument ISIN	String	М	HK0000004389	See CRF (Validations)		ISIN
Section	Delivery Type	Enum	М	CASH	[CASH, PHYS,OPTL]	ISO 20022	ISIN
	UPI	String	D	QZGL6LDG2782	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	SESCXC	See CRF (Derivations)	ISO 10962:2015	ISIN
Destruct	Short Name	String	D	NA/Swaps Sgle Stk CFD	See CRF (Derivations)	ISO 18774: 2015	NEW
Derived Section	Underlying Asset Type	String	D	Single Stock	Fixed value	CFI:2015 Char#3 (SES***)	ISIN
Section	Return or Payout Trigger	String	D	Contract for Difference (CFD)	Fixed value	CFI:2015 Char#4 (SE*C**)	ISIN
	CFI Delivery Type	String	D	Cash	See CRF (Derivations)	CFI:2015 Char#6 (SE****)	NEW

Attributes	See Template Layout (above).						
Validation	 Underlier ID The following validation will apply for Underlier ID Source [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 less or more than 12 characters and/or 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 not aligned with the above pattern after hitting create, an error message will apply "Error: /Attributes/UnderlierID: 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 conform with syntactic validation, an error message will apply "Error: ISIN/s must be valid". 						
Attribute Data Dictionary	This section provides the exact re	eference or source of the attribute.					
,	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]				
	Underlying Instrument ISIN	Not Available	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				

Normalization	Not Required								
Derivation	This section provides additional details to the derivation logic specified in the Template Layout sections (above).								
	Classification Type	 Instrume Asset Clate Underlyi Return composition Not apple Delivery CAST PHYSION 	ring Asset Type: "S" or Payout Trigger: "C" olicable/undefined: "X"						
	Short Name	Concatenation of the following attributes/values: • Issuer Name: "NA/" • Instrument Type: "Swaps" (fixed value) • Underlying Asset Type: "Sgle Stk" (fixed value) • Return or Payout Trigger: "CFD" (fixed value) E.g.: "NA/Swaps Sgle Stk CFD". 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 i CASH → PHYS → OPTL →	* "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 • <i>value elaboration</i>)						
	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 1096						
Additional Inform	mation								
Reference	References to ext		n be found oi	n the DSB websit	e at this address	[https://www.anna-dsb.com/upi-			
Comments	 Text values in the Short Name are taken from "ISO Abbrev w acronyms-Final_v0.5.5.FINAL." 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". 								
ISO 4914	ISO 4914			Request A	ttribute	Record Attribute			
Equivalence	Asset Class		М	Asset Class		Asset Class			
	Instrument Ty	уре	М	Instrumen	т Туре	Instrument Type			

D. II.	М	5.11	Delivery Type
Delivery Type		Delivery Type	CFI Delivery Type
Return, pricing method or payout trigger	М	Not Required	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