Derivatives Service Bureau (UPI) CHANGE REQUEST FORM

Version	State	Author	Date	Description
1	Draft	M. Surop	29 March 2021	Initial Document
2	Draft	M. Surop	29 April 2021	Updated ToR, Attribute Data Dictionary & Comments.
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	09 August 2021	Updated Record Template Layout and error message for ISIN validation.
6	Draft	M. Surop	24 Sept 2021	Updated error message for ISIN validation.

Title	EQUITY OPTION Single Name 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-0120			
		Туре	New Template			
	Equity : Option : Single_Name	Owner	M. Surop			
		Version	6			
		State	Draft			
Terms of Referen	ce					
Scope	 This CRF specifies the product definition required for the generation / retrieva This CRF covers both the input (Request) and output (Record) templates. Support for local jurisdiction / alternate underlier identifier input is currently of 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 ball SIN product definition. This specification assumes that no input values are to be defaulted by the syst This specification is based on the current ISO 4914 (UPI) specification (CD) – in currently supported by the equivalent OTC ISIN. This specification is based on the DSB's current equivalent OTC ISIN product defined in ISO 10962 (C In order to provide an example Short Name, this specification defines a format conform to the eventually agreed FISN format for the UPI. This specification a defined using the same attributes (where available) as the OTC ISIN Short Name 	em. cluding attribu efinition. CFI:2015). t for this attribu ssumes that th	utes that are not oute that may not			

	 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.
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Request Template Layout

Section	Attribute	Format	Cat	Example Value	Validation / Derivation	Enum Source	Origin
	Asset Class	Set	М	Equity		CFI:2015 Char#2 (HE****)	ISIN
Header Section	Instrument Type	Set	М	Option		CFI:2015 Char#1 (HE****)	ISIN
Header Section	Product	Set	М	Single_Name			ISIN
	Level	Set	М	UPI			NEW
	Underlier ID	String	М	CNE1000003X6	See CRF (Validations)		NEW
	Underlier ID Source	String	М	ISIN	[ISIN]	Internal	NEW
Attribute Section	Option Exercise Style	Enum	М	EURO	[AMER, BERM, EURO]	ISO 20022	ISIN
Attribute Section	Option Type	Enum	М	PUTO	[CALL, PUTO, OPTL]	ISO 20022	ISIN
	Valuation Method or Trigger	Enum	М	Vanilla	[Vanilla, Asian, Barrier, Lookback etc.]	CFI:2015 Char#5 (HE****)	ISIN
	Delivery Type	Enum	М	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 (HE****)	ISIN
	Instrument Type	Set	М	Option		CFI:2015 Char#1 (HE****)	ISIN
Header Section	Product	Set	М	Single_Name			ISIN
	Level	Set	М	UPI			NEW
	Template Version	Integer	D	1			ISIN
	Underlying Instrument ISIN	Array	М	CNE1000003X6	See CRF (Validations)		ISIN
	Option Exercise Style	Enum	М	EURO	[AMER, BERM, EURO]	ISO 20022	ISIN
Attribute Section	Option Type	Enum	М	PUTO	[CALL, PUTO, OPTL]	ISO 20022	ISIN
	Valuation Method or Trigger	Enum	М	Vanilla	[Vanilla, Asian, Barrier, Lookback etc.]	CFI:2015 Char#5 (HE****)	ISIN
	Delivery Type	Enum	М	PHYS	[CASH, PHYS, OPTL]	ISO 20022	ISIN
	UPI	String	D	QZJ2M8CZFWP3	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	String	D	2021-03-29T09:59:45	YYYY-MM-DDThh:mm:ss		ISIN
	Classification Type	String	D	HESDVP	See CRF (Derivations)	ISO 10962: 2015	ISIN
	Short Name	String	D	NA/O Sgle Stk Put Epn	See CRF (Derivations)	ISO 18774: 2015	NEW
Derived Section	Underlying Asset Type	String	D	Single Stock	Fixed value	CFI:2015 Char#3 (HES***)	ISIN
	CFI Option Style and Type	String	D	European-Put	See CRF (Derivations)	CFI:2015 Char#4 (HE****)	NEW
	CFI Delivery Type	String	D	Physical	See CRF (Derivations)	CFI:2015 Char#6 (HE****)	NEW

Product Definition							
Attributes	See Template Layout (above).						
Validation	 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".						
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 Exercise]				
	Option Exercise Style	ISO 20022 FinancialInstrumentReportingReferenceDataReportV01	Enums [AMER, BERM, EURO]				

	Option Type		ISO 20022 FinancialInstrumentReportingReferenceDataReportV01	Enums [CALL, PUTO, OPTL]		
	Valuation Meth Trigger	od or	ISO 10962 Classification of financial instruments (CFI code)	Enums [Vanilla, Asian, Digital (Binary), Barrier, Digital Barrier, Lookback, Other Path Dependent, Other]		
	Underlying Instr ISIN	rument	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 provi	ides additio	onal details to the derivation logic specified in the Templat	te Layout sections (above).		
			atenation of the following attributes/values: Instrument Type: "H" Asset Class: "E" Underlying Asset Type: "S" Option Type/Style: from Request.OptionType and Request.OptionExercise Style - PUTO/AMER \rightarrow E - PUTO/BERM \rightarrow F - PUTO/EURO \rightarrow D - CALL/AMER \rightarrow B - CALL/BERM \rightarrow C - CALL/EURO \rightarrow A - OPTL/BERM \rightarrow I - OPTL/EURO \rightarrow G Valuation Method or Trigger: from Request.ValuationMethodorTrigger - Vanilla \rightarrow V - Asian \rightarrow A - Digital (Binary) \rightarrow D - Barrier \rightarrow B - Digital Barrier \rightarrow G - Uokback \rightarrow L - Other \rightarrow M - Delivery Type: from Request.Delivery Type - CASH \rightarrow C - CASH \rightarrow C - PHYS \rightarrow P			
	Short Name	• • • E.g.: "NA	hation of the following attributes/values: Issuer: "NA/" Instrument Type: "O" (fixed value) Underlying Asset Type: "Sgle Stk" (fixed value) Option Type: from Request.OptionType - PUTO "Put" - CALL "Call" - OPTL "Opt" Option Exercise Style: from Request.OptionExercises - AMER "Amr" - BERM "Brm" - EURO "Epn" /O Sgle Stk Put Epn" e Short Name is based on the OTC ISIN that excludes the for - Notional Currency - Expiry Date			

	CFI Option Style and Type	 PUTO/A PUTO/A PUTO/A CALL/A CALL/B CALL/E OPTL/A OPTL/B 	AMER \rightarrow BERM \rightarrow EURO \rightarrow MER \rightarrow ERM \rightarrow	Request.OptionType and Request.OptionExerciseStyle "American-Put" "Bermudan-Put" "European-Put" "American-Call" "Bermudan-Call" "European-Call" "American-Chooser" "Bermudan-Chooser" "European-Chooser"					
	CFI Delivery Type	Derived from the CASH \rightarrow PHYS \rightarrow OPTL \rightarrow	→	"C "P	ash" hysical" lect at Exercise"				
GUI Details	The following sec OTC ISIN definitio		ay information	for any at	tributes (and values) that are r	ot included in the related			
	Attribute	Display Name	Tool Tip (and	value elab	poration)				
	Underlier ID	Underlier ID		ontract or, i	ised to determine the asset(s), ind n the case of a foreign exchange d				
	Underlier ID Source	Underlier ID Source	The origin, or p	The origin, or publisher, of the associated underlier ID.					
	UPI	Identification	Unique Product Identifier (ISO 4914).						
	CFI Option Style and Type	CFI Option Style and Type	The Option Style and Type as defined by CFI code: ISO 10962 As defined by CFI Code: ISO 10962 						
	CFI Delivery Type	CFI Delivery Type	The Delivery Type as defined by CFI code: ISO 10962 • As defined by CFI Code: ISO 10962						
Additional Info	rmation								
Reference	References to ext external-reference		an be found on	the DSB v	website at this address [https:/	/www.anna-dsb.com/upi-			
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. Option Type enumerated values in the DSB OTC ISIN are [CALL; PUTO; OPTL] whereas in ISO 20022, values are [CALL; PUTO; OTHR]. 								
ISO 4914	ISO 4914				Request Attribute	Record Attribute			
Equivalence	Asset Class			М	Asset Class	Asset Class			
	Instrument ty	pe		М	Instrument Type	Instrument Type			
						Delivery Type			
	Delivery type			М	Delivery Type	CFI Delivery Type			
	Option style			М	Option Exercise Style	Option Exercise Style			
	Option type			М	Option Type	Option Type			
	Return, pricin	g method or payou	ıt trigger	М	Valuation Method or Trigger	Valuation Method or 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	
Underlying contract tenor period*	С	Not Required Not Required		
Underlying contract tenor period multiplier*	С			

*Underlying Contract Tenor Period / Multiplier applies only to a derivative contract underlying another derivative. For this product, the underlying is a single stock and so these attributes are not required.