

**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	26 Apr 2021	Updated TOR, attribute data dictionary, comments and ISO 4914 equivalence
3	Draft	J. Lim	30 Jun 2021	Updated validation message
4	Draft	J. Lim	21 Jul 2021	Updated attribute data dictionary and reference
5	Draft	J. Lim	07 Oct 2021	Updated error message for ISIN validation

Title	EQUITY FORWARD Price Return Basic Performance Single Name CFD Template Definition			
<b>Background</b>	<p>The following CRF presents a specification for the generation and retrieval of a Unique Product Identifier for the following product:</p> <ul style="list-style-type: none"> <li><b>Equity : Forward : Price_Return_Basic_Performance_Single_Name_CFD</b></li> </ul>		<b>DSB-ID</b>	<b>UPI-0119</b>
			<b>Type</b>	New Template
			<b>Owner</b>	J.Lim
			<b>Version</b>	5
			<b>State</b>	Draft
<b>Terms of Reference</b>				
<b>Scope</b>	<ul style="list-style-type: none"> <li>This CRF specifies the product definition required for the generation / retrieval of a UPI only.</li> <li>This CRF covers both the input (Request) and output (Record) templates.</li> <li>Support for local jurisdiction / alternate underlier identifier input is currently out of scope.</li> <li>Support for CFI 2019 values is currently out of scope.</li> </ul>			
<b>Requirements</b>	<ul style="list-style-type: none"> <li>The product definition will conform to ISO 4914 (UPI).</li> <li>Where possible, the product definition is to be based on the attributes, values and behaviour of the equivalent OTC ISIN.</li> <li>The product definition will return a product short name (FISN).</li> <li>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.</li> </ul>			
<b>Dependencies</b>	<ul style="list-style-type: none"> <li>This specification is dependent on final sign-off of the ISO 4914 (UPI) specification.</li> <li>This specification is dependent on PC approval for the use of the OTC ISIN definitions as a basis for the UPI.</li> <li>This specification is dependent on PC approval for the inclusion of ISO 4914 (UPI) conditional attributes.</li> <li>This specification is dependent on TAC Approval for the DSB approach to ISO 10962 (CFI:2019) migration.</li> <li>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.</li> <li>The format of the Short Name is dependent upon the outcome of the ISO 18774 (FISN) systematic review.</li> </ul>			
<b>Assumptions</b>	<ul style="list-style-type: none"> <li>This specification assumes that, unless stated, all values and behaviours are based on those of the equivalent OTC ISIN product definition.</li> <li>This specification assumes that no input values are to be defaulted by the system.</li> <li>This specification is based on the current ISO 4914 (UPI) specification (CD) – including attributes that are not currently supported by the equivalent OTC ISIN.</li> <li>This specification is based on the DSB's current equivalent OTC ISIN product definition.</li> <li>This specification is based on the attributes and values defined in ISO 10962 (CFI:2015).</li> <li>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.</li> <li>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.</li> </ul>			

- 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
Header Section	Asset Class	Set	M	Equity		CFI:2015 Char#2	ISIN
	Instrument Type	Set	M	Forward		CFI 2015 Char#1	ISIN
	Product	Set	M	Price_Return_Basic_Performance_Single_Name_CFD			ISIN
	Level	Set	M	UPI			NEW
Attribute Section	Underlier ID	String	M	BRIBOVINDM18	See CRF (Validations)		NEW
	Underlier ID Source	String	M	ISIN	See CRF (Validations)	internal	NEW
	Delivery Type	Enum	M	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	M	Equity		CFI:2015 Char#2	ISIN
	Instrument Type	Set	M	Forward		CFI 2015 Char#1	ISIN
	Product	Set	M	Price_Return_Basic_Performance_Single_Name_CFD			ISIN
	Level	Set	M	UPI			NEW
Attribute Section	Template Version	Integer	D	1			ISIN
	Underlying Instrument ISIN	String	M	BRIBOVINDM18	See CRF (Validations)		ISIN
	Delivery Type	Enum	M	PHYS	[CASH, PHYS]	ISO 20022	ISIN
Identifier Section	UPI	String	D	QZGL6L275782	See UPI Document (UPI Code structure and Annex C)	ISO 4914	NEW
	Status	String	D	New			ISIN
	Status Reason	String	D	<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
Derived Section	Classification Type	String	D	JESXCP	See CRF (Derivations)	ISO 10962:2015	ISIN
	Short Name	String	D	NA/Fwd Sgle Stk CFD	See CRF (Derivations)	ISO 18774: 2015	NEW
	Underlying Asset Type	String	D	Single Stock	Fixed value	CFI:2015 Char#3 (JES***)	ISIN
	Return or Payout Trigger	String	D	Contract for Difference (CFD)	Fixed value	CFI:2015 Char#5 (JE**C*)	ISIN
	CFI Delivery Type	String	D	Physical	See CRF (Derivations)	CFI:2015 Char#6 (JE****)	NEW

Product Definition		
<b>Attributes</b>	See Template Layout (above).	
<b>Validation</b>	<p><b>1. Underlier ID</b>                      The following validation will be applied if Underlier ID is ISIN:</p> <ul style="list-style-type: none"> <li>• The input text by user must be in 12 characters (2 alpha, 9 alphanumeric, 1 numeric).</li> <li>• The input text must not have a prefix of "QZ" or "EZ".</li> <li>• A syntactic validation is being performed to confirm an ISIN when hitting create.</li> <li>• 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 <code>^(?!(EZ QZ))[A-Z]{2}[A-Z0-9]{9}[0-9]\$.</code>"</li> <li>• If the input ISIN is not aligned with the above pattern after hitting create, an error message will apply "Error: /Attributes/UnderlierID/0: ECMA 262 regex <code>^(?!(EZ QZ))[A-Z]{2}[A-Z0-9]{9}[0-9]\$</code> does not match input string "[user input]"</li> <li>• 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".</li> </ul>	
<b>Attribute Data Dictionary</b>	This section provides the exact reference or source of the attribute.	
	<b>Full Name</b>	<b>Source</b>
	Delivery Type	ISO 20022 FinancialInstrumentReportingReferenceDataReportV01
	CFI Delivery Type	ISO 10962 Classification of financial instruments (CFI code)
	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	
<b>Normalization</b>	<ul style="list-style-type: none"> <li>Not Required</li> </ul>			
<b>Derivation</b>	This section provides additional details to the derivation logic specified in the Template Layout sections (above).			
<b>Classification Type</b>	Concatenation of the following attributes/values: <ul style="list-style-type: none"> <li>Instrument Type: "J"</li> <li>Asset Class: "E"</li> <li>Underlying Asset Type: "S"</li> <li>Not applicable/undefined: "X"</li> <li>Return or Payout Trigger: "C"</li> <li>Delivery Type: from Request.Delivery Type...                         <ul style="list-style-type: none"> <li>CASH → C</li> <li>PHYS → P</li> </ul> </li> </ul> E.g.: "JESXCP"			
<b>Short Name</b>	Concatenation of the following attributes/values: <ul style="list-style-type: none"> <li>Issuer Name: "NA/"</li> <li>Instrument Type: "Fwd" (fixed value)</li> <li>Underlying Asset Type: "Sgle Stk" (fixed value)</li> <li>Return or Payout Trigger: "CFD" (fixed value)</li> </ul> E.g.: "NA/Fwd Sgle Stk CFD". <i>Note: The Short Name is based on the OTC ISIN that excludes the following fields:</i> <ul style="list-style-type: none"> <li>Notional Currency</li> <li>Expiry Date</li> </ul>			
<b>CFI Delivery Type</b>	Derived from the input Delivery Type... <ul style="list-style-type: none"> <li>CASH → "Cash"</li> <li>PHYS → "Physical"</li> </ul>			
<b>GUI Details</b>	The following section provides display information for any attributes (and values) that are not included in the related OTC ISIN definition.			
	<b>Attribute</b>	<b>Display Name</b>	<b>Tool Tip (and • value elaboration)</b>	
	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 <ul style="list-style-type: none"> <li>As defined by CFI Code: ISO 10962</li> </ul>	
<b>Additional Information</b>				
<b>Reference</b>	References to external documents can be found on the DSB website at this address [ <a href="https://www.anna-dsb.com/upi-external-reference-documents/">https://www.anna-dsb.com/upi-external-reference-documents/</a> ].			
<b>Comments</b>	<ul style="list-style-type: none"> <li>Text values in the Short Name are taken from "ISO Abbrev w acronyms-Final_v0.5.5.FINAL."</li> <li>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.</li> <li>Short Name abbreviation for Underlying Asset Type (Single Stock) for Equity products is "Sgle Stk" while for Portfolio swaps single name product, abbreviations used is "SStk"</li> </ul>			
<b>ISO 4914 Equivalence</b>	<b>ISO 4914</b>		<b>Request Attribute</b>	<b>Record Attribute</b>
	Asset Class	M	Asset Class	Asset Class

Instrument Type	M	Instrument Type	Instrument Type
Delivery Type	M	Delivery Type	Delivery Type
			CFI Delivery Type
Return, pricing method or payout trigger	M	Not Required	Return or Payout Trigger
Underlier ID	C	Underlier ID	Underlying Instrument ISIN
Underlier ID source	C	Underlier ID source	Not Required
Underlier Type	M	Not Required	Underlying Asset Type
Underlying contract tenor period*	C	Not Required	
Underlying contract tenor period multiplier*	C	Not Required	

\*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.