DERIVATIVES SERVICE BUREAU (DSB) LTD

Foreign Exchange : Forward : Contract for Difference

UPI Product Definition

Version 3

Date	Status	Version	Revision Details
8 Aug 2022	Draft	1	Initial Version
24 Jan 2023	Draft	2	• Update example values in the Request and Record templates layout • Insert Underlier Name attribute and Derivation rules
05 Sep 2023	Draft	3	• Update Associated Documentation to include Best Practice Guidelines and FAQs. • Update Best Practice Guidelines to include the link to Best Practice Guidelines and FAQs.

Contents

1. Introduction

This document is designed to act as a manual for users to interpret the Product Definitions in the DSB UPI Service.

This document provides the user with the detailed description of the UPI Product Definition content such as attribute enumerations, validation, normalization, and derivation where applicable.

1.1   Associated Documentation

The reference documents below contain values and information maintained by the DSB for consistency and ease of access.

These documents are made available on the ANNA DSB website (Product Definitions page):

Title	Description	Location
Enumerations Document	Lists all fixed values used for a product	Enumerations section
Product Definition Data Dictionary	Defines attributes in the Request and Record templates; and from which they are referenced on	Other Documents section
Product Definition Validations and Normalizations Document	Specifies details on validation and normalization rules	
UPI Underlier Input Method	Defines the structure for the input of the underlier following the rules that allow users to identify the Asset Class, Underlying Structure, Underlying Type, and Underlying ID Source.	
Best Practice Guidelines and FAQs	Lists answers to queries raised by users and provides guidance on the use of the templates	
GitHub Environment Section	ANNA DSB Github Environment where the JSON templates for each product is found	

2. Product Taxonomy

2.1 CFI Taxonomy

Source: ISO 10962 (CFI Code) – Third edition 2015-07-15

Attr #	Title	Values	Name	Description
	Instrument (Category)	**J**	Forward	
	Asset Class (Group)	**F**	Foreign Exchange	
Attr #1	**Underlying Assets**	**T**	Spot	An option on an FX transaction in which two parties agree to buy one currency against selling another currency at an agreed price for settlement on the spot date
Attr #2	**Not applicable/undefined**	**X**	Not applicable/undefined	Not applicable/undefined
Attr #3	**Return or Payout Trigger**	**C**	Contract for Difference	
Attr #4	**Delivery Type**	**C**	Cash	The discharge of an obligation by payment or receipt of a net cash amount instead of payment or delivery by both parties
		P	Physical	The meeting of a settlement obligation under a derivative contract through the receipt or delivery of the actual underlying instrument(s) instead of through cash settlement

2.2 ISDA Taxonomy

The table below is based on the products identified as part of the ISDA 2.0 taxonomy.

Asset Class	Base Product	Sub-Product	DSB Product Definition Name
Foreign Exchange	Continuous FX	Contract for Difference	Contract_For_Difference

3. Request Template

The Request Template describes the input message received by the UPI service.

Users can find the detailed description of this template in the Foreign Exchange spreadsheet that contains the layout of all templates. This can be found in the Foreign Exchange section of the Product Definitions page on the ANNA DSB website.

Change details of the template can be found on the appropriate Github page.

Template name	Template details	Release
Request.Foreign_Exchange.Forward.Contract_For_Difference.UPI.json	Initial version	Initial

3.1　Underlier Input Method

For products that has a Single Underlier, users have an option to select a Primary or Alternate Underlier, if available.

Title	Description	
Select Underlier ID Source	User is able to select a single required Underlier Source • Currency Pair [CCY]	
Input Underlier ID	CCY	This is validated against ISO Currency Code List.

3.2　Validation Rules

For non-specific product validation rules, please refer to UPI Product Definition Validations and Normalizations Document can be found in the Other Documents section on the DSB website.

4. Record Template

The Record Template describes the record returned by the UPI service.

Users can find the detailed description of this template in the Foreign Exchange spreadsheet that contains the layout of all templates. This can be found in the Foreign Exchange section of the Product Definitions page on the ANNA DSB website.

Change details of the template can be found on the appropriate Github page.

Version	Template name	Template details	Release
V.1	**Foreign_Exchange.Forward.Contract_For_Difference.UPI.V1.json**	Initial version	Initial

4.1 Normalization Rules

For non-specific product normalization rules, please refer to UPI Product Definition Validations and Normalizations Document can be found in the Other Documents section on the DSB website.

4.2 Derivation Rules

This section describes the derivations of product attributes highlighted in the Record Template.

4.2.1 Classification Type

Attribute	Classification Type		
Structure	Instrument Type + Asset Class + Underlying Asset Type + N/A + Return or Payout Trigger + Delivery Type		
Example	JFTXCC		
Source	[ISO 10962](#) (CFI) – Third edition 2015-07-15		
Source Attribute	**Source Value**	**Derivation Method**	**Result**
Instrument Type	Forward	Fixed Mapping	J
Asset Class	Foreign Exchange	Fixed Mapping	F
Underlying Asset Type	Spot	Fixed Mapping	T
Not Applicable / Undefined	Not applicable/undefined	Fixed Mapping	X
Return or Payout Trigger	Contract for Difference	Fixed Mapping	C

Delivery Type	CASH	Mapped to =>	C
	PHYS	Mapped to =>	P

4.2.2   Short Name

Attribute	Short Name		
Structure	"NA" + "/" + Instrument Type + Product + Notional Currency + Other Notional Currency		
Example	NA/Fwd CFD EUR USD		
Source	[ISO 18774](#) (Financial Instrument Short Name) - First edition 2015-11		
Source Attribute	**Source Value**	**Derivation Method**	**Result**
Issuer Name	None	Fixed Value	NA/
Instrument Type	Forward	Fixed Abbreviation	Fwd
Product	Contract for Difference	Fixed Abbreviation	CFD
Currency	Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP
Other Notional Currency	Other Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP

4.2.3 Underlier Name

Attribute	Underlier Name		
Underlying Asset	**Underlier Name Source**	**Underlier Name Source Attribute**	**Underlier Name**
Currency Pair	UPI record	Notional Currency / Other Notional Currency	EUR USD

4.2.4 CFI Delivery Type

Attribute	CFI Delivery Type		
Source Attribute	**Source Value**	**Derivation Method**	**Result**
Delivery Type	CASH	Mapped to =>	Cash
	PHYS	Mapped to =>	Physical

5. Supplementary Information

5.1 Best Practice Guidelines

Please refer to Best Practice Guidelines and FAQs that can be found in the Other Documents section on the DSB website.

5.2 Additional Comments

No additional comments provided for this product.

6. Appendix 1 – ISO 4914 Equivalence

This section describes the attributes as per the ISO 4914 Unique Product Identifier (UPI).

ISO 4914 Reference Data Elements		Request Attribute	Record Attribute
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
Settlement Currency	C	Settlement Currency	Settlement Currency
Underlier ID	C	Underlier ID	Notional Currency
	C	Other Underlier ID	Other Notional Currency
Underlier ID source	C	Underlier ID Source	Not Required
	C	Other Underlier ID Source	Not Required
Underlier Type	M	Not Required	Underlying Asset Type

7. Appendix 2 - OTC ISIN-UPI Mapping

This section describes the mapping between the ISIN and UPI input attributes.

ISIN Input Attributes	Mapping Logic	UPI Input Attributes	Sample UPI Values	Comments
Asset Class	Direct Map	Asset Class	Foreign_Exchange	
Instrument Type	Direct Map	Instrument Type	Forward	
Use Case	Direct Map	Product	Contract_For_Difference	
Level	Set to "UPI"	Level	UPI	
Notional Currency	Map To	Underlier ID	EUR	
	Set to "CCY"	Underlier ID Source	CCY	
Other Notional Currency	Map To	Other Underlier ID	USD	
	Set to "CCY"	Other Underlier ID Source	CCY	
Settlement Currency	Direct Map	Settlement Currency	EUR	
Delivery Type	Direct Map	Delivery Type	CASH	
Price Multiplier	No Mapping			