DERIVATIVES SERVICE BUREAU (DSB) LTD

Rates : Option : Inflation_CapFloor

ISIN Product Definition

Version 1

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1. Introduction

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

This document provides the user with a detailed description of the ISIN 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	
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)	**H**	Non-listed and complex listed options	
	Asset Class (Group)	**R**	Rates	
Attr #1	**Underlying Assets**	G	Inflation Rate Index	An interest rate swap in which one party (the fixed rate payer) makes periodic payments to another party (the floating rate payer) based on a fixed rate of interest multiplied by a notional amount in exchange for receipt of periodic payments based on an inflation rate index multiplied by the same notional amount upon which the fixed rate payments are based
Attr #2	**Option Style and Type**	D	European-Put	An option on a contract which allows its holder (buyer) to exercise the right to sell specified assets (interest rates product) at a fixed price only on the expiration date of the put
		A	European-Call	An option on a contract which allows its holder (buyer) to exercise the right to buy specified assets (interest rates product) at a fixed price only on the expiration date of the call
		G	European-Chooser	An option on a contract which allows its holder (buyer) to exercise the right to buy (call) or sell (put) specified assets (interest rates product) at a fixed price, only on the contract's expiration date; the buyer does not have to decide whether the contract will be a put or a call until an agreed future date, prior to expiration
Attr #3	**Valuation Method or Trigger**	M	Others	Others (miscellaneous)
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
		E	Elect at exercise	The method of delivery of the underlying instrument when the option is exercised shall be determined at the time of exercise

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
Rates	Inflation CapFloor		Inflation_CapFloor

3. Request Template

The Request Template describes the input message received by the OTC ISIN service.

Users can find the detailed description of this template in the Rates spreadsheet that contains the layout of all templates. This can be found in the Rates 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.Rates.Option.Inflation_CapFloor.InstRefDataReporting.json	Initial version	Initial

3.1 Validation Rules

- For non-specific product validation rules, please refer to ISIN Product Definition Validations and Normalizations Document (See Section 1.1).
- For enumerations, please refer to the associated ISIN Product Definition Enumeration document for the impacted attributes (See Section 1.1).

4. Record Template

The Record Template describes the record returned by the OTC ISIN service.

Users can find the detailed description of this template in the Rates spreadsheet that contains the layout of all templates. This can be found in the Rates 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
V1	**Rates.Option.Inflation_CapFloor.InstRefDataReporting.V1.json**	Initial version
V1M1	**Rates.Option.Inflation_CapFloor.InstRefDataReporting.V1M1.json**	Added Parent UPI

4.1 Normalization Rules

For non-specific product normalization rules, please refer to the Product Definition Validations and Normalizations (See Section 1.1).

4.2 Derivation Rules

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

4.2.1 Full Name

Attribute	Full Name		
Structure	Asset Class + Instrument Type + Option Type + Product + Term of Contract Value/Unit + Underlying Instrument Index + Underlying Instrument Index Term Value/Unit + Expiry Date		
Example	Rates Option Call Inflation Cap 1 DAYS AUD-CPI 1 DAYS 20230805		
Source	RTS23/Field2 - Instrument Full Name		
Source Attribute	**Source Value**	**Derivation Method**	**Result**
Asset Class	Rates	Fixed Value	Rates
Instrument Type	Option	Fixed Value	Option
Option Type	CALL	Mapped to =>	Call
	PUTO	Mapped to =>	Put
	OPTL	Mapped to =>	Chooser
Product	CALL	Mapped to =>	Inflation Cap

	PUTO	Mapped to =>	Inflation Floor
	OPTL	Mapped to =>	
Term of Contract Value/Unit	e.g., 1 DAYS	Copy value =>	e.g., 1 DAYS
Underlying Instrument Index	e.g., AUD-CPI	Copy value =>	e.g., AUD-CPI
Underlying Instrument Index Term Value/Unit	e.g., 1 DAYS	Copy value =>	e.g., 1 DAYS
Expiry Date	Expiry Date	Date Format (YYYYMMDD)	20230805

4.2.2 Classification Type

Attribute	Classification Type		
Structure	Instrument Type + Asset Class + Underlying Asset Type + Option Style/Type + Valuation Method or Trigger + Delivery Type		
Example	HRGAMP		
Source	[ISO 10962](ISO 10962) (CFI) – Third edition 2015-07-15		
Source Attribute	**Source Value**	**Derivation Method**	**Result**
Instrument Type	Non-listed and complex listed options	Fixed Mapping	H
Asset Class	Rates	Fixed Mapping	R
Underlying Asset Type	Inflation Rate Index	Fixed Mapping	G
Option Style and Type	PUTO/EURO	Mapped to =>	D
	CALL/EURO	Mapped to =>	A
	OPTL/EURO	Mapped to =>	G
Valuation Method or Trigger	Other	Fixed Mapping	M
Delivery Type	CASH	Mapped to =>	C
	PHYS	Mapped to =>	P
	OPTL	Mapped to =>	E

4.2.3 Short Name

Attribute	Short Name		
Structure	"NA" + "/" + Instrument Type + Option Type + Option Exercise Style + Notional Currency + Expiry Date		
Example	NA/O Call Epn EUR 20230805		
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	Option	Fixed Abbreviation	O
Option Type	Call	Mapped to =>	Call
	Put	Mapped to =>	P
	Optl	Mapped to =>	Opt
Option Exercise Style	European	Fixed Abbreviation	Epn
Notional Currency	Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP
Expiry Date	Expiry Date	Date Format (YYYYMMDD)	20230805

5. Supplementary Information

5.1 Best Practice Guidelines

Please refer to Best Practice Guidelines and FAQs (See Section 1.1).

5.2 Additional Comments

The short name abbreviation for option type – Put is "P" for Rates Option while in Equity Option, the short name abbreviation for the option type – Put is "Put".

6. Appendix 1 - OTC ISIN-UPI Mapping

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

One Of	ISIN Input Attributes	Mapping Logic	UPI Input Attributes	Example UPI Values	Comments
	Asset Class	Direct Map	Asset Class	Rates	
	Instrument Type	Direct Map	Instrument Type	Option	
	Use Case	Direct Map	Product	Inflation_CapFloor	
	Level	Set to "UPI"	Level	UPI	
A	Term of Contract (By Effective Date)				
	Notional Currency	Direct Map	Notional Currency	EUR	
	Expiry Date	No Mapping			
	Effective Date	No Mapping			
	Expiry Date Adjusted	No Mapping			
	Tenor Calculator Method	No Mapping			
	Underlying Instrument Index	Map to	Underlier ID	EUR-EXT-CPI	
		Set to "FPML"	Underlier ID Source	FPML	
	Underlying Instrument Index Term Value	Direct Map	Underlying Instrument Index Term Value	2	
	Underlying Instrument Index Term Unit	Direct Map	Underlying Instrument Index Term Unit	MNTH	
	Option Type	Direct Map	Option Type	CALL	
	Delivery Type	Direct Map	Delivery Type	CASH	
	Price Multiplier	No Mapping			
B	Term of Contract (By Tenor)				
	Notional Currency	Direct Map	Notional Currency	EUR	
	Expiry Date	No Mapping			
	Term of Contract Value	No Mapping			
	Term of Contract Unit	No Mapping			
	Underlying Instrument Index	Map to	Underlier ID	EUR-EXT-CPI	
		Set to "FPML"	Underlier ID Source	FPML	
	Underlying Instrument Index Term Value	Direct Map	Underlying Instrument Index Term Value	2	

	Underlying Instrument Index Term Unit	Direct Map	Underlying Instrument Index Term Unit	MNTH	
	Option Type	Direct Map	Option Type	CALL	
	Delivery Type	Direct Map	Delivery Type	CASH	
	Price Multiplier	No Mapping			