

DERIVATIVES SERVICE BUREAU (DSB) LTD

Foreign_Exchange : Option : Vanilla_Option

ISIN Product Definition

Version I

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20 Sep 2023	Draft	I	Initial Version

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I. 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.

I.I 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		
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	Other Documents section	
GitHub Environment Section	ANNA DSB Github Environment where the JSON templates for each product is found		

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2. Product Taxonomy

2.1 CFI Taxonomy

Source: <u>ISO 10962</u> (CFI Code) – Third edition 2015-07-1

Attr #	Title	Values	Name	Description
	Instrument (Category)	Н	Non-listed and complex listed options	
	Asset Class (Group)	F	Foreign Exchange	
Attr #I	Underlying Assets	Т	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	Option style and type	Α	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
		В	American-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 at any time during the term of the call option, up to and including the expiration date of the call
		С	Bermudan-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 on a number of specific dates within the exercise period of the call
		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
		E	American-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 at any time during the term of the put option, up to and including the expiration date of the put
		F	Bermudan-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 on a number of specific dates within the exercise period of the put
		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

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				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
		Н	American-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 at any time during the term of the contract, up to and including the expiration date of the call or put; 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
		I	Bermudan-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 on a number of specific dates within the exercise period of the contract; 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	٧	Vanilla	An option for which all terms are standardized
Attr #4	Delivery Type	С	Cash	Cash
		Р	Physical	Physical
		E	Elect at Exercise	Elect at exercise

2.2 ISDA Taxonomy

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

Asset Class	Base Product	Sub-Product	DSB Product Definition Name
Foreign Exchange	Vanilla Option		Vanilla_Option

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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 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.Option.Vanilla_Option.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 <u>Section 1.1</u>).

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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 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
VI	Foreign_Exchange.Option.Vanilla_Option.InstRefDataReporting.V1.json	Initial version
VIMI	Foreign_Exchange.Option.Vanilla_Option.InstRefDataReporting.VIMI.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 + Product + Notional Currency + Other Notional Currency + Expiry Date				
Example	Foreign Exchange Option Vanilla_Option EUR USD 20230810				
Source	RTS23/Field2 - Instrument Full Name				
Source Attribute	Source Value	Derivation Method	Result		
Asset Class	Foreign_Exchange	Fixed Value	Foreign_Exchange		
Instrument Type	Option	Fixed Value	Option		
Product	Vanilla_Option	Fixed Value	Vanilla_Option		
Notional Currency	Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP		
Other Notional Currency	Other Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP		

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Expiry Date	Expiry Date	Date Format	20230810
		(YYYYMMDD)	

4.2.2 Classification Type

Attribute	Classification Type			
Structure	Instrument Type + Asset Class + Underlying Asset Type + Option Type/Style + Valuation Method or Trigger + Delivery Type			
Example	HFTDVP			
Source	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	Н	
Asset Class	Foreign Exchange	Fixed Mapping	F	
Underlying Asset Type	Spot	Fixed Mapping	Т	
Option Type / Style	PUTO/AMER	Mapped to =>	Е	
	PUTO/BERM	Mapped to =>	F	
	PUTO/EURO	Mapped to =>	D	
	CALL/AMER	Mapped to =>	В	
	CALL/BERM	Mapped to =>	С	
	CALL/EURO	Mapped to =>	А	
	OPTL/AMER	Mapped to =>	Н	
	OPTL/BERM	Mapped to =>	I	
	OPTL/EURO	Mapped to =>	G	
Valuation Method or Trigger	Vanilla	Fixed Mapping	V	
Delivery Type	CASH	Mapped to =>	С	
	PHYS	Mapped to =>	Р	
	OPTL	Mapped to =>	Е	

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4.2.3 Short Name

Attribute	Short Name				
Structure		"NA" + "/" + Instrument Type + Valuation Method or Trigger + Option Type + Notional Currency + Other Notional Currency + Expiry Date			
Example	NA/O Van Put EUR USD 20230	810			
Source	ISO 18774 (Financial Instrument	Short Name) - First edition 2015-1	I		
Source Attribute	Source Value	Derivation Method	Result		
Issuer Name	None	Fixed Value	NA/		
Instrument Type	Option	Fixed Abbreviation	0		
Valuation Method or Trigger	Vanilla	Fixed Abbreviation	Van		
Option Type	PUTO	Fixed Abbreviation	Put		
	CALL	Fixed Abbreviation	Call		
	OPTL	Fixed Abbreviation	0		
Notional Currency	Notional Currency	Notional Currency Mapped Enumeration e.g., USD, EUR, GBP			
Other Notional Currency	Other Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP		
Expiry Date	Expiry Date	Date Format (YYYYMMDD)	20230810		

4.2.4 FX Type

Attribute	FX Type		
Source Attribute	Criteria	FX Туре	Result
Notional Currency / Other Notional Currency	All others	FX Cross Rates	FXCR
	Non-G8 currency pairs	FX Emerging Markets	FXEM
	G8 currency pairs	FX Majors	FXMJ

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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 shortname abbreviation for option type – Put is "P" for Rates option while in Equity and Foreign Exchange, shortname abbreviation for the option type – Put is "Put". Same as for Option Type – OPTL whereas in FX it is "O" and "Opt" for Rates and Equity.

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6. Appendix I - 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	Option	
Use Case	Direct Map	Product	Vanilla_Option	
Level	Set to "UPI"	Level	UPI	
Notional Currency	Мар То	Underlier ID	EUR	
	Set to "CCY"	Underlier ID Source	CCY	
Expiry Date	No Mapping			
Option Type	Direct Map	Option Type	PUTO	
Option Exercise Style	Direct Map	Option Exercise Style	EURO	
Other Notional Currency	Мар То	Other Underlier ID	USD	
	Set to "CCY"	Other Underlier ID Source	CCY	
Delivery Type	Direct Map	Delivery Type	PHYS	
Price Multiplier	No Mapping			

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