

## DERIVATIVES SERVICE BUREAU (DSB) LTD

Equity : Swap : Parameter\_Return\_Volatility\_Single\_Name

UPI Product Definition

Version 3

Date	Status	Version	Revision Details
11 Aug 2022	Draft	1	Initial Version
26 Jan 2023	Draft	2	<ul style="list-style-type: none"> <li>Update example values in the Request and Record templates layout</li> <li>Insert Underlier Name attribute and Derivation rules</li> </ul>
04 Sep 2023	Draft	3	<ul style="list-style-type: none"> <li>Remove “Classified as Confidential” in the Footer section.</li> <li>Remove “RIC” as Alternate Underlier ID Source.</li> <li>Update Associated Documentation to include Best Practice Guidelines and FAQs.</li> <li>Update Best Practice Guidelines to include the link to Best Practice Guidelines and FAQs.</li> </ul>

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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 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.

### I.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
<b>Enumerations Document</b>	Lists all fixed values used for a product	Enumerations section
<b>Product Definition Data Dictionary</b>	Defines attributes in the Request and Record templates; and from which they are referenced on	Other Documents section
<b>Product Definition Validations and Normalizations Document</b>	Specifies details on validation and normalization rules	
<b>UPI Underlier Input Method</b>	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.	
<b>Best Practice Guidelines and FAQs</b>	Lists answers to queries raised by users and provides guidance on the use of the templates	
<b>GitHub Environment Section</b>	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)	S	Swap	
	Asset Class (Group)	E	Equity	
Attr #1	Underlying Assets	S	Single Stock	Single name security
Attr #2	Return or payout trigger	L	Volatility	The variability of movements in a security or underlying instrument's price; it is a measure of the amount by which an asset's price is expected to fluctuate over a given period of time; it is normally measured by the annual standard deviation of daily price changes
Attr #3	Not applicable/undefined	X	Not applicable/undefined	Not applicable/undefined
Attr #4	Delivery	C	Cash	Cash
		P	Physical	Physical
		E	Elect at Settlement	Elect at 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	Transaction Type	DSB Product Definition Name
Equity	Swap	Parameter Return Volatility	Single Name	Parameter_Return_Volatility_Single_Name

### 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 Equity spreadsheet that contains the layout of all templates. This can be found in the Equity 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
<b>Request.Equity.Swap.Parameter_Return_Volatility_Single_Name.UPI.json</b>	Initial version	Initial

#### 3.1 Underlier Input Method

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

Title	Description
<b>Select Underlier ID Source</b>	User is able to select a Primary or Alternate Underlier from the available options. <ul style="list-style-type: none"><li>• ISIN</li><li>• FIGI</li><li>• CUSIP</li><li>• SEDOL</li></ul>
<b>Input Underlier ID</b>	User enters a valid Underlier ID based on the selected Underlier ID Source.

#### 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 Equity spreadsheet that contains the layout of all templates. This can be found in the Equity 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	Equity.Swap.Parameter_Return_Volatility_Single_Name.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 + Return or Payout Trigger + NA + Delivery Type		
Example	SESLXP		
Source	<a href="#">ISO 10962</a> (CFI) – Third edition 2015-07-15		
Source Attribute	Source Value	Derivation Method	Result
Instrument Type	Swap	Fixed Mapping	S
Asset Class	Equity	Fixed Mapping	E
Underlying Asset Type	Single Stock	Fixed Mapping	S
Return or Payout Trigger	Volatility	Fixed Mapping	L
Not applicable/undefined	Not applicable/undefined	Fixed Mapping	X
Delivery Type	CASH	Mapped to =>	C

	PHYS	Mapped to =>	P
	OPTL	Mapped to =>	E

#### 4.2.2 Short Name

Attribute	Short Name		
<b>Structure</b>	“NA” + "/" + Instrument Type + Underlying Asset Type + Return or Payout Trigger		
<b>Example</b>	NA/Swaps Sgle Stk Vol		
<b>Source</b>	<a href="#">ISO 18774</a> (Financial Instrument Short Name) - First edition 2015-I I		
Source Attribute	Source Value	Derivation Method	Result
<b>Issuer Name</b>	None	Fixed Value	NA/
<b>Instrument Type</b>	Swap	Fixed Abbreviation	Swaps
<b>Underlying Asset Type</b>	Single Stock	Fixed Abbreviation	Sgle Stk
<b>Return or Payout Trigger</b>	Volatility	Fixed Abbreviation	Vol



### 4.2.3 Underlier Name

Attribute	Underlier Name		
Underlying Asset	Underlier Name Source	Underlier Name Source Attribute	Underlier Name
Underlying ID with Underlying ID Source [ISIN; FIGI; CUSIP; SEDOL]	ISIN Reference Data	longName of Underlying Instrument ISIN	VODAFONE GROUP PLC

### 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
	OPTL	Mapped to =>	Elect at Settlement

## 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

The short name abbreviation for Instrument Type within the Equity Asset Class is “Swaps” whereas Rates Asset Class uses “Swap”.

## 6. Appendix I – 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
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

## 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	Example UPI Value	Comments
Asset Class	Direct Map	Asset Class	Equity	
Instrument Type	Direct Map	Instrument Type	Swap	
Use Case	Direct Map	Product	Parameter_Return_Volatility_Single_Name	
Level	Set to "UPI"	Level	UPI	
Notional Currency	No Mapping			
Expiry Date	No Mapping			
Underlying Instrument ISIN	Map to	Underlier ID	GB00BH4HKS39	
	Set to "ISIN, FIGI, CUSIP, SEDOL"	Underlier ID Source	ISIN	
Price Multiplier	No Mapping			
Delivery Type	Direct Map	Delivery Type	PHYS	