



Derivatives Service Bureau

Equity : Swap : Parameter_Return_Dividend_Single_Index

UPI Product Definition

Version 3

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

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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 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

Each UPI Product Definition template links to reference documents where values will be maintained for the sake of consistency and ease of access e.g., Enumerations, Data Dictionary, Validation and Normalizations, etc.

These documents are made available for references as follows:

- UPI Enumerations Document can be found in the Enumerations section on the [DSB website](#).
- UPI Product Definition Data Dictionary can be found in the Other Documents section on the [DSB website](#).
- UPI Product Definition Validations and Normalizations Document can be found in the Other Documents section on the [DSB website](#).
- UPI Underlier Input Method can be found in the Other Documents section on the [DSB website](#).
- Best Practice Guidelines and FAQs can be found in the Other Documents section on the [DSB website](#).
- Links to the relevant JSON templates can be found in the GitHub Environment Section on the [DSB website](#).

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	I	Index	An equity index swap in which cash flows are exchanged based on the percentage change in one or more stock indices for a specific period with previously agreed re-set dates; the swap is cash settled and based on notional principal amounts
Attr #2	Return or payout trigger	D	Dividend	A fixed-term contract between two parties where one party will make an interest rate payment for each interval and the other party will pay the total dividends received as pay-out by a selected underlying asset
Attr #3	Not applicable/ undefined	X	Not applicable/ undefined	Not applicable/undefined
Attr #4	Delivery Type	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 Dividend	Single Index	Parameter_Return_Dividend_Single_Index

3 REQUEST TEMPLATE

This section describes the input message received by UPI service.

Template name	Template details	Release
Request.Equity.Swap.Parameter_Return_Dividend_Single_Index.UPI.json	Initial version	Initial

Section	Attribute	Format	Cat	Example Value	Validation
Header Section	Asset Class	Set	M	Equity	
	Instrument Type	Set	M	Swap	
	Product	Set	M	Parameter_Return_Dividend_Single_Index	
	Level	Set	M	UPI	
Attribute Section	Underlier Type (oneOf)	Object	M	Equity Index Identifier	
	Underlier ID Source	String	(M)	ISIN	[ISIN]
	Underlier ID	Enum	(M)	GB0001383545	Syntactic Validation
	Underlier Type (oneOf)	Object	M	Equity Index Name	
	Underlier ID Source	String	(M)	EQIDX	[EQIDX]
	Underlier ID	Enum	(M)	MSCI EM USD	Enumerated List
	Underlier Type (oneOf)	Object	M	Proprietary Index	
	Underlier ID Source	String	(M)	PROP	[PROP]
	Underlier ID	String	(M)	34810-JPCFNAMR	See Validation Rules
	Delivery Type	Enum	M	CASH	[CASH, PHYS, OPTL]

3.1 Underlier Input Method

In order to support products that are based on more than one type of underlier, the Underlier Type selection allows users to choose the type of underlier for the product.

Title	Description
Select Underlier Type	User is able to select a single required Underlier Type from the available options. <ul style="list-style-type: none"> Equity Index Identifier Equity Index Name Proprietary Index
Select Underlier ID Source	User is able to select a single required Underlier ID Source from the available options based on the selected Underlier Type. <ul style="list-style-type: none"> Equity Index Identifier [ISIN] Equity Index Name [EQIDX] Proprietary Index [PROP]
Input Underlier ID	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

This section describes the record returned by the UPI service.

Version	Template name	Template details	Release
V.1	Equity.Swap.Parameter_Return_Dividend_Single_Index.UPI.V1.json	Initial version	Initial

Section	Attribute	Format	Cat	Example Value	Derivation
Header Section	Asset Class	Set	M	Equity	
	Instrument Type	Set	M	Swap	
	Product	Set	M	Parameter_Return_Dividend_Single_Index	
	Level	Set	M	UPI	
	Template Version	Integer	D	1	
Attribute Section	Underlying Instrument ISIN	String	C	GB0001383545	See Validation Rules
	Underlying Instrument Index	String	C	MSCI EM USD	Enumerated List
	Underlying Instrument Index Prop	String	C	34810-JPCFNAMR	See Validation Rules
	Delivery Type	Enum	M	CASH	[CASH, PHYS, OPTL]
Identifier Section	UPI	String	D	QZQVQHMLX903	
	Status	String	D	New	[New; Updated; Deleted; Deprecated]
	Status Reason	String	D	<null>	
	Last Update Date Time	DtTm	D	2021-03-25T16:41:12	YYYY-MM-DDThh:mm:ss
Derived Section	Classification Type	String	D	SEIDXC	See Derivation Rules
	Short Name	String	D	NA/Swaps Idx Div	See Derivation Rules
	Underlier Name	String	D	MSCI EM USD	See Derivation Rules
	Underlying Asset type	String	D	Index	Fixed value
	Return or Payout Trigger	String	D	Dividend	Fixed value
	CFI Delivery Type	String	D	[Cash, Physical, Elect at Settlement]	See Derivation Rules

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	SEIDX		
Source	ISO 10962 (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	Index	Fixed Mapping	I
Return or Payout Trigger	Dividend	Fixed Mapping	D
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		
Structure	"NA" + "/" + Instrument Type + Underlying Asset Type + Return or Payout Trigger		
Example	NA/Swaps Idx Div		
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	Swap	Fixed Abbreviation	Swaps
Underlying Asset Type	Index	Fixed Abbreviation	Idx
Return or Payout Trigger	Dividend	Fixed Abbreviation	Div

4.2.3 Underlier Name

Based on the Underlier Type selected, the following Underlier Name derivation rules will apply:

Attribute		Underlier Name		
Underlying Asset	Underlier Name Source	Underlier Name Source Attribute		Underlier Name
Underlying ID with Underlying ID Source [ISIN]	Index Name to Index ISIN Mapping File	Equivalent Underlying Equity Index Name that exists in the mapping file		FTSE 100 INDEX
	ISIN Reference Data	longName of Underlying Instrument ISIN	ISIN is found in ISIN Reference Data.	VODAFONE GROUP PLC
			ISIN is found in ISIN Reference Data, but its description is missing.	No name available
			ISIN is not found in ISIN Reference Data.	No name obtainable
Underlying ID with Underlying ID Source [EQIDX]	UPI record	Underlying Instrument Index		MSCI EM USD
Underlying ID with Underlying ID Source [PROP]	UPI record	Underlying Instrument Index Prop		34810-JPCFNAMR

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 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
Underlier ID	C	Underlier ID	Underlying Instrument ISIN
			Underlying Instrument Index
			Underlying Instrument Index Prop
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.

One Of	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_Dividend_Single_Index	
	Level	Set to "UPI"	Level	UPI	
	Notional Currency	No Mapping			
	Expiry Date	No Mapping			
A	Underlying Instrument ISIN	Set to "Equity Index Identifier"	Underlier Type	Equity Index Identifier	"One Of" Underlier Type
		Map to	Underlier ID	GB0001383545	
		Set to "ISIN"	Underlier ID Source	ISIN	
B	Underlying Instrument Index	Set to "Equity Index Name"	Underlier Type	Equity Index Name	"One Of" Underlier Type
		Map to	Underlier ID	MSCI EM USD	
		Set to "EQIDX"	Underlier ID Source	EQIDX	
C	Underlying Instrument Index Prop	Set to "Proprietary Index"	Underlier Type	Proprietary Index	"One Of" Underlier Type
		Map to	Underlier ID	34810-JPCFNAMR	
		Set to "PROP"	Underlier ID Source	PROP	
	Price Multiplier	No Mapping			
	Delivery Type	Direct Map	Delivery Type	CASH	