



## Derivatives Service Bureau

# Rates : Swap : Fixed\_Fixed

## UPI Product Definition

Version 3

Date	Status	Version	Revision Details
8 Aug 2022	Draft	1	Initial Version
18 Jan 2023	Draft	2	<ul style="list-style-type: none"><li>Update Record template layout</li><li>Insert Underlier Name attribute and Derivation rules</li></ul>
30 Aug 2023	Draft	3	<ul style="list-style-type: none"><li>Remove “Classified as Confidential” in the Footer section.</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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# 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
	<b>Instrument (Category)</b>	<b>S</b>	Swap	
	<b>Asset Class (Group)</b>	<b>R</b>	Rates	
<b>Attr #1</b>	<b>Underlying Assets</b>	<b>D</b>	Fixed - Fixed	An interest rate swap in which both parties pay a fixed interest rate that they could not otherwise obtain outside of a swap arrangement; for example, if each counterparty uses a different native currency, but wants to borrow money in the other counterparty's native currency; Fixed-Fixed swaps generally take the form of either a zero coupon swap or a cross-currency swap
<b>Attr #2</b>	<b>Notional Schedule</b>	<b>C</b>	Constant	The notional amount is constant through the life of the contract
		<b>I</b>	Accreting	The notional amount increases through the life of the contract
		<b>D</b>	Amortizing	The notional amount decreases through the life of the contract
		<b>Y</b>	Custom	Customized notional step schedule
<b>Attr #3</b>	<b>Single or Multi Currency</b>	<b>S</b>	Single Currency	Single Currency
<b>Attr #4</b>	<b>Delivery Type</b>	<b>C</b>	Cash	The discharge of an obligation by payment or receipt of a net cash amount instead of payment or delivery by both parties
		<b>P</b>	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
Rates	IR Swap	Fixed Fixed	Fixed_Fixed

### 3 REQUEST TEMPLATE

This section describes the input message received by UPI service.

Template name	Template details	Release
<b>Request.Rates.Swap.Fixed_Fixed.UPI.json</b>	Initial version	Initial

Section	Attribute	Format	Cat	Example Value	Validation / Derivation
<b>Header Section</b>	Asset Class	Set	M	Rates	
	Instrument Type	Set	M	Swap	
	Product	Set	M	Fixed_Fixed	
	Level	Set	M	UPI	
<b>Attribute Section</b>	Notional Currency	Enum	M	EUR	ISO 4217 Currency Code
	Notional Schedule	Enum	M	Constant	[Constant; Accreting; Amortizing; Custom]
	Delivery Type	Enum	M	PHYS	[CASH; PHYS]

#### 3.1 Underlier Input Method

No applicable Underlier Input Method for this product.

#### 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	Rates.Swap.Fixed_Fixed.UPI.V1.json	Initial version	Initial

Section	Attribute	Format	Cat	Example Value	Derivation
Header Section	Asset Class	Set	M	Rates	
	Instrument Type	Set	M	Swap	
	Product	Set	M	Fixed_Fixed	
	Level	Set	M	UPI	
	Template Version	Integer	D	1	
Attribute Section	Notional Currency	Enum	M	EUR	Enumerated List
	Notional Schedule	Enum	M	Constant	[Constant; Accreting; Amortizing; Custom]
	Delivery Type	Enum	M	PHYS	[CASH; PHYS]
Identifier Section	UPI	String	D	QZJF573R2H63	
	Status	String	D	New	[New; Updated; Deleted; Deprecated]
	Status Reason	String	D	<null>	
	Last Update Date Time	DtTm	D	2021-02-23T00:00:13	YYYY-MM-DDThh:mm:ss
Derived Section	Classification Type	String	D	SRDCSP	See Derivation Rules
	Short Name	String	D	NA/Swap Fxd Fxd EUR	See Derivation Rules
	Underlier Name	String	D	N/A	See Derivation Rules
	Underlying Asset type	String	D	Fixed - Fixed	Fixed value
	Single or Multi currency	String	D	Single Currency	Fixed value
	CFI Delivery Type	String	D	[Cash; Physical]	See Derivation Rules

## 4.1 Normalization Rules

Normalization rules are not applicable for this product.

## 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		
<b>Structure</b>	Instrument Type + Asset Class + Underlying Asset Type + Notional Schedule + Single or Multi Currency + Delivery Type		
<b>Example</b>	SRDCSP		
<b>Source</b>	<a href="#">ISO 10962</a> (CFI) – Third edition 2015-07-15		
Source Attribute	Source Value	Derivation Method	Result
<b>Instrument Type</b>	Swap	Fixed Mapping	S
<b>Asset Class</b>	Rates	Fixed Mapping	R
<b>Underlying Asset Type</b>	Fixed - Fixed	Fixed Mapping	D
<b>Notional Schedule</b>	Constant	Mapped to =>	C
	Accreting	Mapped to =>	I
	Amortizing	Mapped to =>	D
	Custom	Mapped to =>	Y
<b>Single or Multi Currency</b>	Single Currency	Fixed Mapping	S
<b>Delivery Type</b>	CASH	Mapped to =>	C
	PHYS	Mapped to =>	P

### 4.2.2 Short Name

Attribute	Short Name		
<b>Structure</b>	"NA" + "/" + Instrument Type + Underlying Asset Type + Notional Currency		
<b>Example</b>	NA/Swap Fxd Fxd EUR		
<b>Source</b>	<a href="#">ISO 18774</a> (Financial Instrument Short Name) - First edition 2015-11		
Source Attribute	Source Value	Derivation Method	Result
<b>Issuer Name</b>	None	Fixed Value	NA/
<b>Instrument Type</b>	Swap	Fixed Abbreviation	Swap
<b>Underlying Asset Type</b>	Fixed - Fixed	Fixed Abbreviation	Fxd Fxd
<b>Notional Currency</b>	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
No Underlying	Constant	N/A	N/A

## 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

Existing OTC ISIN product definition methodology of the Short Name abbreviation (Issuer of TV + "/" + Instrument Type) for Equity Asset Class has "NA/Swaps" whereas Rates has "NA/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
Currency associated with an underlying reference rate	M	Notional Currency	Notional Currency
Delivery type	M	Delivery Type	Delivery Type
			CFI Delivery Type
Notional schedule	M	Notional Schedule	Notional Schedule
Single or multiple currency	M	Not Required	Single or Multi Currency
Underlier ID	C	Not Required	Not Required
Underlier ID source	C	Not Required	Not Required
Underlier type	M	Not Required	Underlying Asset Type
Underlying rate index tenor period	C	Not Required	Not Required
Underlying rate index tenor period multiplier	C	Not Required	Not Required

## 7 APPENDIX 2 - OTC ISIN-UPI MAPPING

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

oneOf	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	Swap	
	Use Case	Direct Map	Product	Fixed_Fixed	
	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			
	Notional Schedule	Direct Map	Notional Schedule	Constant	
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			
	Notional Schedule	Direct Map	Notional Schedule	Constant	
	Delivery Type	Direct Map	Delivery Type	PHYS	
	Price Multiplier	No Mapping			