



Derivatives Service Bureau

Foreign Exchange : Forward : Rolling Spot

UPI Product Definition

Version 3

| Date | Status | Version | Revision Details |
|-------------|--------|---------|---|
| 8 Aug 2022 | Draft | 1 | Initial Version |
| 25 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 |
| 05 Sep 2023 | Draft | 3 | <ul style="list-style-type: none">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) | J | Forward | |
| | Asset Class (Group) | F | Foreign Exchange | |
| Attr #1 | Underlying Assets | T | 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 | Not Applicable / Undefined | X | Not applicable/undefined | Not applicable/undefined |
| Attr #3 | Return or Payout Trigger | F | Forward price of the underlying Instrument | Forward price of underlying instrument |
| 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 |

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 |
|------------------|---------------|--------------|-----------------------------|
| Foreign Exchange | Continuous FX | Rolling Spot | Rolling_Spot |

3 REQUEST TEMPLATE

This section describes the input message received by UPI service.

| Template name | Template details | Release |
|--|------------------|---------|
| Request.Foreign_Exchange.Forward.Rolling_Spot.UPI.json | Initial version | Initial |

| Section | Attribute | Format | Cat | Example Value | Validation / Derivation |
|--------------------------|---------------------------|--------|-----|------------------|-------------------------|
| Header Section | Asset Class | Set | M | Foreign_Exchange | |
| | Instrument Type | Set | M | Forward | |
| | Product | Set | M | Rolling_Spot | |
| | Level | Set | M | UPI | |
| Attribute Section | Underlier ID | Enum | M | EUR | Enumerated List |
| | Underlier ID Source | String | M | CCY | [CCY] |
| | Other Underlier ID | Enum | M | USD | Enumerated List |
| | Other Underlier ID Source | String | M | CCY | [CCY] |
| | Settlement Currency | Enum | M | EUR | Enumerated List |
| | Delivery Type | Enum | M | CASH | [CASH, PHYS] |

3.1 Underlier Input Method

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

| Title | Description |
|-----------------------------------|---|
| Select Underlier ID Source | User is able to select a single required Underlier Source <ul style="list-style-type: none"> Currency Pair [CCY] |
| Input Underlier ID | CCY This is validated against ISO Currency Code List. |

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 | Foreign_Exchange.Forward.Rolling_Spot.UPI.V1.json | Initial version | Initial |

| Section | Attribute | Format | Cat | Example Value | Derivation |
|---------------------------|--------------------------|---------|------------------|--|-------------------------------------|
| Header Section | Asset Class | Set | M | Foreign_Exchange | |
| | Instrument Type | Set | M | Forward | |
| | Product | Set | M | Rolling_Spot | |
| | Level | Set | M | UPI | |
| | Template Version | Integer | D | 1 | |
| Attribute Section | Notional Currency | Enum | M | EUR | Enumerated List |
| | Other Notional Currency | Enum | M | USD | Enumerated List |
| | Settlement Currency | Enum | M | EUR | Enumerated List |
| | Delivery Type | Enum | M | CASH | [CASH, PHYS] |
| Identifier Section | Identifier | String | D | QZMB5XQGCBL3 | |
| | Status | String | D | New | [New; Updated; Deleted; Deprecated] |
| | Status Reason | String | D | <null> | |
| | Last Update Date Time | DtTm | D | 2020-11-30T00:00:13 | YYYY-MM-DDThh:mm:ss |
| Derived Section | Classification Type | String | D | JFTXFC | See Derivation Rules |
| | Short Name | String | D | NA/Fwd Rlg Spot EUR USD | See Derivation Rules |
| | Underlier Name | String | D | EUR USD | See Derivation Rules |
| | Underlying Asset type | String | D | Spot | Fixed value |
| | Return or Payout Trigger | String | D | Forward price of underlying instrument | Fixed value |
| CFI Delivery Type | String | D | [Cash; Physical] | 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 + NA + Return or Payout Trigger + Delivery Type | | |
| Example | JFTXFC | | |
| Source | ISO 10962 (CFI) – Third edition 2015-07-15 | | |
| Source Attribute | Source Value | Derivation Method | Result |
| Instrument Type | Forward | Fixed Mapping | J |
| Asset Class | Foreign Exchange | Fixed Mapping | F |
| Underlying Asset Type | Spot | Fixed Mapping | T |
| Not Applicable / Undefined | Not applicable / undefined | Fixed Mapping | X |
| Return or Payout Trigger | Forward price of underlying instrument | Fixed Mapping | F |
| Delivery Type | CASH | Mapped to => | C |
| | PHYS | Mapped to => | P |

4.2.2 Short Name

| Attribute | | Short Name | |
|--------------------------------|--|--------------------|---------------------|
| Structure | "NA" + "/" + Instrument Type + Product + Notional Currency + Other Notional Currency | | |
| Example | NA/Fwd Rlg Spot EUR USD | | |
| 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 | Forward | Fixed Abbreviation | Fwd |
| Product | Rolling Spot | Fixed Abbreviation | Rlg Spot |
| Notional Currency | Notional Currency | Mapped Enumeration | e.g., USD, EUR, GBP |
| Other Notional Currency | Other 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 |
| Currency Pair | UPI record | Notional Currency / Other Notional Currency | EUR USD |

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

No additional comments provided for this product.

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 |
| Settlement Currency | C | Settlement Currency | Settlement Currency |
| Underlier ID | C | Underlier ID | Notional Currency |
| | C | Other Underlier ID | Other Notional Currency |
| Underlier ID source | C | Underlier ID Source | Not Required |
| | C | Other 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 | Sample UPI Values | Comments |
|-------------------------|---------------|---------------------------|-------------------|----------|
| Asset Class | Direct Map | Asset Class | Foreign_Exchange | |
| Instrument Type | Direct Map | Instrument Type | Forward | |
| Use Case | Direct Map | Product | Rolling_Spot | |
| Level | Set to "UPI" | Level | UPI | |
| Notional Currency | Map To | Underlier ID | EUR | |
| | Set to "CCY" | Underlier ID Source | CCY | |
| Other Notional Currency | Map To | Other Underlier ID | USD | |
| | Set to "CCY" | Other Underlier ID Source | CCY | |
| Settlement Currency | Direct Map | Settlement Currency | EUR | |
| Delivery Type | Direct Map | Delivery Type | CASH | |
| Price Multiplier | No Mapping | | | |