



Derivatives Service Bureau

Credit : Swap : Corporate

UPI Product Definition

Version 3

Date	Status	Version	Revision Details
08 Aug 2022	Draft	1	Initial Version
02 Feb 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
29 Aug 2023	Draft	3	<ul style="list-style-type: none">Remove “Classified as Confidential” in the Footer section.Remove “RIC” as Alternate Underlier ID Source.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)	C	Credit	
Attr #1	Underlying Assets	U	Single Name	The underlying risk is a single reference entity or reference obligation
Attr #2	Return or payout trigger	C	Credit Default	Credit Default
Attr #3	Underlying Issuer Type	C	Corporate	The underlying exposure is a corporate (a private sector entity)
Attr #4	Delivery	C	Cash	Cash
		P	Physical	Physical
		A	Auction	An independently administered synthetic auction process on a set of defined deliverable obligations that sets a reference final price that can be used to facilitate cash settlement of all covered transactions following a credit event

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
Credit	Single Name	Corporate	<i>Various entries</i>	Corporate

3 REQUEST TEMPLATE

This section describes the input message received by UPI service.

Template name	Template details	Release
Request.Credit.Swap.Corporate.UPI.json	Initial version	Initial

Section	Attribute	Format	Cat	Example Value	Validation
Header Section	Asset Class	Set	M	Credit	
	Instrument Type	Set	M	Swap	
	Product	Set	M	Corporate	
	Level	Set	M	UPI	
Attribute Section	Underlier Type (oneOf)	Object	M	Fixed Income Security	
	Underlier ID Source	Enum	M	ISIN	[ISIN, FIGI, CUSIP, SEDOL]
	Underlier ID	String	M	US92857WBQ24	Syntactic Validation
	Underlier Type (oneOf)	Object	M	Legal Entity	
	Underlier ID Source	Enum	M	LEI	[LEI]
	Underlier ID	String	M	INR2EJN1ERANOW5ZP974	Syntactic Validation
	Debt Seniority	Enum	M	SNDB	[SNDB, MZZD, SBOD, JUND]
	Contract Specification	Enum	M	StandardEuropeanCorporate	Enumerated List
	Delivery Type	Enum	M	PHYS	[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"> Fixed Income Security Legal Entity
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"> Fixed Income Security [ISIN, FIGI, CUSIP, SEDOL] Legal Entity [LEI]
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	Credit.Swap.Corporate.UPI.V1.json	Initial version	Initial

Section	Attribute	Format	Cat	Example Value	Derivation
Header Section	Asset Class	Set	M	Credit	
	Instrument Type	Set	M	Swap	
	Product	Set	M	Corporate	
	Level	Set	M	UPI	
	Template Version	Integer	D	1	
Attribute Section	Instrument ISIN	String	C	US92857WBQ24	See Validation Rules
	Instrument LEI	String	C	INR2EJN1ERAN0W5ZP974	See Validation Rules
	Debt Seniority	Enum	M	SNDB	[SNDB, MZZD, SBOD, JUND]
	Contract Specification	Enum	C	StandardEuropeanCorporate	Enumerated List
	Delivery Type	Enum	M	PHYS	[CASH, PHYS, OPTL]
Identifier Section	UPI	String	D	QZ2093849381	
	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	SCUCCP	See Derivation Rules
	Short Name	String	D	NA/CDS Corp SN Sr	See Derivation Rules
	Underlier Name	String	D	VODAFONE GROUP PLC	See Derivation Rules
	Underlying Asset type	String	D	Single Name	Fixed value
	Return or Payout Trigger	String	D	Credit Default	Fixed value
	Underlying Issuer Type	String	D	Corporate	Fixed value
	CFI Delivery Type	String	D	[Cash, Physical, Auction]	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 + Underlying Issuer Type + Delivery Type		
Example	SCUCCP		
Source	ISO 10962 (CFI) – Third edition 2015-07-15		
Source Attribute	Source Value	Derivation Method	Result
Instrument Type	Swap	Fixed Mapping	S
Asset Class	Credit	Fixed Mapping	C
Underlying Asset Type	Single Name	Fixed Mapping	U
Return or Payout Trigger	Credit Default	Fixed Mapping	C
Underlying Issuer Type	Corporate	Fixed Mapping	C
Delivery Type	CASH	Mapped to =>	C
	PHYS	Mapped to =>	P
	OPTL	Mapped to =>	A

4.2.2 Short Name

Attribute	Short Name		
Structure	“NA” + "/" + Instrument Type + Underlying Issuer Type + Underlying Asset Type + Debt Seniority		
Example	NA/CDS Corp SN Sr		
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	CDS
Underlying Issuer Type	Corporate	Fixed Abbreviation	Corp
Underlying Asset Type	Single Name	Fixed Abbreviation	SN
Debt Seniority	SNDB	Mapped to =>	Sr
	MZZD	Mapped to =>	Mz
	SBOD	Mapped to =>	Sub
	JUND	Mapped to =>	Jr

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]	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 [LEI]	LEI Reference Data	The name of the legal entity	LEI is found in LEI Reference Data.	MICROSOFT CORPORATION
			LEI is found in LEI Reference Data, but its legal name is missing.	No name available
			LEI is not found in LEI Reference Data.	No name obtainable

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 =>	Auction

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 Contract Specification attribute only applies to Credit.Swap.Corporate; Credit.Swap.Municipal; Credit.Swap.Sovereign and Credit.Swap.Non_Standard. It does not apply to Credit.Swap.Loan; Credit.Swap.ABS; Credit.Swap.Index; Credit.Swap.Index_Tranche and Credit.Swap.Total_Return_Swap.
- For the input (Request) template, Contract Specification attribute will be marked as Mandatory in which case all new UPIs will be created with the said field. With this, both new OTC ISINs and UPIs will include the Contract Specification attribute.
- For the existing OTC ISINs without Contract Specification attribute, the system will support a UPI without Contract Specification as it will automatically create its legacy UPI making this field in the output (Record) template as Optional.

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
Seniority	M	Debt Seniority	Debt Seniority
Standard Contract Specification	C	Contract Specification	Contract Specification
Underlier ID	C	Underlier ID	Instrument LEI
			Instrument ISIN
Underlier ID Source	C	Underlier ID Source	Not Required
Underlier type	M	Not Required	Underlying Asset Type
Underlier sub-type (first level)	M	Not Required	Underlying Issuer Type
Underlying Credit Index Series*	C	Not Required	
Underlying Credit Index Version*	C	Not Required	

**Underlying Credit Index Series/Version applies only to Underlying Credit Index [CRIDX]. For this product, the underlying is either a Legal Entity [LEI] or Fixed Income Security [ISIN, FIGI, CUSIP, SEDOL] and so these attributes are not required.*

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	Credit	
	Instrument Type	Direct Map	Instrument Type	Swap	
	Use Case	Direct Map	Product	Corporate	
	Level	Set to "UPI"	Level	UPI	
	Notional Currency	No Mapping			
	Expiry Date	No Mapping			
A	Instrument ISIN	Set to "Fixed Income Security"	Underlier Type	Fixed Income Security	"One Of" Underlier Type
		Map to	Underlier ID	US92857WBQ24	
		Set to "ISIN, FIGI, CUSIP, SEDOL"	Underlier ID Source	ISIN	
B	Instrument LEI	Set to "Legal Entity"	Underlier Type	Legal Entity	"One Of" Underlier Type
		Map to	Underlier ID	INR2EJN1ERAN0W5ZP974	
		Set to "LEI"	Underlier ID Source	LEI	
	Debt Seniority	Direct Map	Debt Seniority	SNDB	
	Delivery Type	Direct Map	Delivery Type	PHYS	
	Price Multiplier	No Mapping			
	Contract Specification	Direct Map	Contract Specification	StandardEuropeanCorporate	