

# DERIVATIVES SERVICE BUREAU (DSB) LTD

Credit: Swap: Sovereign

**UPI Product Definition** 

Version 3

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Date	Status	Version	Revision Details
08 Aug 2022	Draft	I	Initial Version
02 Feb 2023	Draft	2	<ul> <li>Update example values in the Request and Record templates layout</li> <li>Insert Underlier Name attribute and Derivation rules</li> </ul>
29 Aug 2023	Draft	3	<ul> <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 with link to Best Practice Guidelines and FAQs.</li> </ul>

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	Introduction

### 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.I 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
Enumerations Document	Lists all fixed values used for a product	Enumerations section
Product Definition Data Dictionary	Defines attributes in the Request and Record templates; and from which they are referenced on	
Product Definition Validations and Normalizations Document	Specifies details on validation and normalization rules	
UPI Underlier Input Method	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.	Other Documents section
Best Practice Guidelines and FAQs	Lists answers to queries raised by users and provides guidance on the use of the templates	
GitHub Environment Section	ANNA DSB Github Environment where the JSON templates for each product is found	

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# 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)	С	Credit	
Attr #I	Underlying Assets	U	Single Name	The underlying risk is a single reference entity or reference obligation
Attr #2	Return or payout trigger	С	Credit Default	Credit Default
Attr #3	Underlying Issuer Type	S	Sovereign	The underlying exposure is a sovereign, e.g. country; thus, investor's risk is that a country may not (be able to) pay its debt obligations; supranationals would be included here
Attr #4	Delivery Type	С	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	Sovereign	Various entries	Sovereign

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## 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 Credit spreadsheet that contains the layout of all templates. This can be found in the Credit 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
Request.Credit.Swap.Sovereign.UPI.json	Initial version	Initial

#### 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.  • 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.  • 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.

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## 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 Credit spreadsheet that contains the layout of all templates. This can be found in the Credit 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.I	Credit.Swap.Sovereign.UPI.VI.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 + Underlying Issuer Type + Delivery Type				
Example	SCUCSC				
Source	ISO 10962 (CFI) – Third edition 2015	i-07-15			
Source Attribute	Source Value	Derivation Method	Result		
Instrument Type	Swap	Fixed Mapping	S		
Asset Class	Credit	Fixed Mapping	С		
Underlying Asset Type	Single Name	Fixed Mapping	U		
Return or Payout Trigger	Credit Default	Fixed Mapping	С		
Underlying Issuer Type	Sovereign	Fixed Mapping	S		
Delivery Type	CASH	Mapped to =>	С		
	PHYS	Mapped to =>	P		

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OPTL	Mapped to =>	A

### 4.2.2 Short Name

Attribute	Short Name						
Structure	"NA" + "/" + Instrument Type + Und	"NA" + "/" + Instrument Type + Underlying Issuer Type + Underlying Asset Type + Debt Seniority					
Example	NA/CDS Sov SN Sr						
Source	ISO 18774 (Financial Instrument Shor	t 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	Sovereign	vereign Fixed Abbreviation Sov					
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				

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#### 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	IongName of Underlying Instrument ISIN	ISIN is found in ISIN Reference Data.	United Kingdom Treasury Stk 32
			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.	Kingdom of Denmark
			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

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### 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.

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# 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		Asset Class	Asset Class	
Instrument Type		Instrument Type	Instrument Type	
Delivery Type		Delivery Type	Delivery Type	
			CFI Delivery Type	
Return, pricing method or payout trigger		Not Required	Return or Payout Trigger	
Seniority		Debt Seniority	Debt Seniority	
Standard Contract Specification		Contract Specification	Contract Specification	
Underlier ID		Underlier ID	Instrument LEI	
			Instrument ISIN	
Underlier ID Source	С	Underlier ID Source	Not Required	
Underlier type		Not Required	Underlying Asset Type	
Underlier sub-type (first level)		Not Required	Underlying Issuer Type	
Underlying Credit Index Series*		Not Required		
Underlying Credit Index Version*		Not Required		

<sup>\*</sup>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.

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# 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	Sovereign	
	Level	Set to "UPI"	Level	UPI	
	Notional Currency	No Mapping			
	Expiry Date	No Mapping			
		Set to "Fixed Income Security"	Underlier Type	Fixed Income Security	"One Of" Underlier Type
A	Instrument ISIN	Map to	Underlier ID	GB0004893086	
		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
В		Map to	Underlier ID	549300PTO6LS1PTM6607	
		Set to "LEI"	Underlier ID Source	LEI	
	Debt Seniority	Direct Map	Debt Seniority	SNDB	
	Delivery Type	Direct Map	Delivery Type	CASH	
	Price Multiplier	No Mapping			
	Contract Specification	Direct Map	Contract Specification	WesternEuropeanSovereign	

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