

# DERIVATIVES SERVICE BUREAU (DSB) LTD

Credit: Option: Non\_Standard

**ISIN Product Definition** 

Version I

Date	Status	Version	Revision Details
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### I. Introduction

This document is designed to act as a manual for users to interpret the Product Definitions in the DSB OTC ISIN Service.

This document provides the user with a detailed description of the ISIN 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		
Best Practice Guidelines and FAQs	Lists answers to queries raised by users and provides guidance on the use of the templates	Other Documents section	
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: <u>ISO 10962</u> (CFI Code) – Third edition 2015-07-15

Attr #	Title	Values	Name	Description
	Instrument (Category)	Н	Non-listed and complex listed options	
	Asset Class (Group)	С	Credit	
Attr #I	Underlying Assets	U	CDS on a single name	A CDS where the underlying risk is a single reference entity or single reference obligation
			CDS on an index tranche	A synthetic CDO based on a CDS index where each tranche references a different segment of the loss distribution of the underlying CDS index; each tranche has a different priority of claims on the principal and interest flows from the collateral pool, and are traditionally portioned into rising levels of seniority
			CDS on an index	Family of standardized credit derivative indices, where the underlying reference entities are a defined basket of credit from a particular geographic region (for instance, Asia, North America, Europe, etc.), and/or credit rating level (for instance Emerging Markets, high yield, investment grade, etc.); credit default indices trade in standard maturities, and the reference entities are typically the most liquid; the reference portfolio is reassessed periodically to maintain this
		W	Swaps	Swaps
		M	Others	Others (miscellaneous)
#2 type  B American-Call An option on a core exercise the right to at a fixed price only at a fixed price at		An option on a contract which allows its holder (buyer) to exercise the right to buy specified assets (interest rates product) at a fixed price only on the expiration date of the call		
		В	American-Call	An option on a contract which allows its holder (buyer) to exercise the right to buy specified assets (interest rates product) at a fixed price at any time during the term of the call option, up to and including the expiration date of the call
		С	Bermudan-Call	An option on a contract which allows its holder (buyer) to exercise the right to buy specified assets (interest rates product) at a fixed price on a number of specific dates within the exercise period of the call
		D	European-Put	An option on a contract which allows its holder (buyer) to exercise the right to sell specified assets (interest rates product) at a fixed price only on the expiration date of the put

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		E	American-Put	An option on a contract which allows its holder (buyer) to exercise the right to sell specified assets (interest rates product) at a fixed price at any time during the term of the put option, up to and including the expiration date of the put
		F	Bermudan-Put	An option on a contract which allows its holder (buyer) to exercise the right to sell specified assets (interest rates product) at a fixed price on a number of specific dates within the exercise period of the put
		G	European- Chooser	An option on a contract which allows its holder (buyer) to exercise the right to buy (call) or sell (put) specified assets (interest rates product) at a fixed price, only on the contract's expiration date; the buyer does not have to decide whether the contract will be a put or a call until an agreed future date, prior to expiration
		Н	American- Chooser	An option on a contract which allows its holder (buyer) to exercise the right to buy (call) or sell (put) specified assets (interest rates product) at a fixed price at any time during the term of the contract, up to and including the expiration date of the call or put; the buyer does not have to decide whether the contract will be a put or a call until an agreed future date, prior to expiration
		I	Bermudan- Chooser	An option on a contract which allows its holder (buyer) to exercise the right to buy (call) or sell (put) specified assets (interest rates product) at a fixed price on a number of specific dates within the exercise period of the contract; the buyer does not have to decide whether the contract will be a put or a call until an agreed future date, prior to expiration
Attr #3	Valuation method or trigger	٧	Vanilla	An option for which all terms are standardized
		A	Asian	An option where either the strike price or the settle-ment price is the average level of an underlying instrument over a predetermined period; the averaging can be either a geometric or arithmetic average
	D	Digital (Binary)	An option that has a pre-determined pay-out if the option is in- the-money and the payoff condition is satisfied; also referred to as a "binary option" or an "all-or-nothing option"	
		В	Barrier	An option whose final exercise depends upon the path taken by the price of an underlying instrument; for a "knock-out" barrier option, the option is cancelled if the underlying price crosses a predetermined barrier level; for a "knock-in" barrier option, the option becomes available-for-exercise if the underlying price crosses a predetermined barrier level

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		G	Digital barrier	A digital option embedded with a barrier option; there are different variations of this type of option; as an example, a downand-out digital call option will pay a fixed payoff, or the underlying, at any time before maturity that the underlying price is equal to or greater than the bar-rier level; it will pay zero if the underlying price is less than the barrier level
		L	Lookback	An option that minimizes the uncertainties related to the timing of market entry; there are two types of look-back options: fixed and floating; the fixed option strike is determined at purchase, and the floating option strike is determined at maturity
		P	Other path dependent	An option on a contract whose payoff is directly related to the price pattern the underlying asset follows during the life of the contract
			Others	Others (miscellaneous)
Attr #4	= 0 0. / 1 / 10		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
		E	Elect at exercise	The method of delivery of the underlying instrument when the option is exercised shall be determined at the time of exercise

# 2.2 ISDA Taxonomy

The table below is based on the products identified as part of the <u>ISDA 2.0 taxonomy</u>.

Asset Class	Base Product	Sub-Product	Transaction Type	DSB Product Definition Name
Credit	Exotic	Various entries	Various entries	Non_Standard_Option

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### 3. Request Template

The Request Template describes the input message received by the OTC ISIN 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.Option.Non_Standard.InstRefDataReporting.json	Initial version	Initial

#### 3.1 Validation Rules

- For non-specific product validation rules, please refer to ISIN Product Definition Validations and Normalizations Document (See <u>Section 1.1</u>).
- For enumerations, please refer to the associated ISIN Product Definition Enumeration document for the impacted attributes (See Section 1.1).

#### 3.1.1 Underlying Instrument Index Term Value / Underlying Instrument Index Term Unit

- a. If Underlying Instrument Index is selected, the following validation will apply:
  - Underlying Instrument Index Term Value and Underlying Instrument Index Term Unit must be present in the REQUEST and RECORD messages.
  - Underlying Instrument Index Term Unit: [DAYS; WEEK; MNTH; YEAR].
  - Underlying Instrument Index Term Value: Input text must be an integer from -999 to 999 (but not 0).

Attribute	Validation Type	Validation	Error Message
Underlying Instrument Index Term Value	Integer validation	Input text must be an integer from -999 to 999 (but not 0).	Value must be at most 999.
			Value must be at least -999.
			Value must not validate against the provided schema. Value can't be 0.

- b. If Underlying Instrument Index Prop is selected, the following validation will apply:
  - Underlying Instrument Index Term Value and Underlying Instrument Index Term Unit must be present in the REQUEST and RECORD messages.
  - Underlying Instrument Index Term Unit: [DAYS; WEEK; MNTH; YEAR].
  - Underlying Instrument Index Term Value: Input text must be an integer from -999 to 999 (including 0).

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Attribute	Validation Type	Validation	Error Message
Underlying Instrument Index Term Value	Integer validation	Input text must be an integer from -999 to 999 (including	Value must be at most 999.
		0).	Value must be at least -999.

c. If Underlying Instrument ISIN/LEI is selected, Underlying Instrument Index Term Value/Unit attributes will not be present in the REQUEST and RECORD messages.

#### 3.1.2 Underlying Credit Index Series / Underlying Credit Index Version

- a. If Underlying Instrument Index is selected, the following validations will apply:
  - Underlying Credit Index Series and Underlying Credit Index Version attributes must be present in the REQUEST and RECORD messages.
  - The input text by the user must be a positive integer from 1 to 999.
  - If the input text contains character, remove the character, and retain the integer if exists.

Attribute	Validation Type	Validation	Error Message
Underlying Credit Index Series / Underlying Credit	Integer validation	Input text has a prefix of negative (-).	Value must be at least 1.
Index Version		Input text contains negative (- ) after the integer.	Value must be of type integer. Value must be at most 999. Value must be at least 1.

- b. If Underlying Instrument Index Prop is selected, the following validations will apply:
  - The input text by the user must be a positive integer from 0 to 999.
  - If the input text contains character, remove the character, and retain the integer if exists.

Attribute	Validation Type	Validation	Error Message
Underlying Credit Index Series / Underlying Credit	Integer validation	Input text has a prefix of negative (-).	Value must be at least 0.
Index Version		Input text contains negative (- ) after the integer.	Value must be of type integer. Value must be at most 999. Value must be at least 0.

c. If Underlying Instrument ISIN/LEI is selected, Underlying Credit Index Series/Version attributes will not be present in the REQUEST and RECORD messages.

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# 4. Record Template

The Record Template describes the record returned by the OTC ISIN 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
VI	Credit.Option.Non_Standard.InstRefDataReporting.V1.json	Initial version
VIMI	Credit.Option.Non_Standard.InstRefDataReporting.VIMI.json	Added Parent UPI
V2	Credit.Option.Non_Standard.InstRefDataReporting.V2.json	Updated Debt Seniority attribute
V2MI	Credit.Option.Non_Standard.InstRefDataReporting.V2M1.json	Added Parent UPI

#### 4.1 Normalization Rules

For non-specific product normalization rules, please refer to the Product Definition Validations and Normalizations (See Section 1.1).

#### 4.2 Derivation Rules

This section describes the derivations of product attributes highlighted in the Record Template.

#### 4.2.1 Full Name

Attribute	Full Name				
Structure	Asset Class + Instrument Type + Product + Underlying Asset Type + Underlying Input + Notional Currency + Expiry Date				
Example	Credit Option Non_Standard CDS on Single Name US69183QAA40 LKR 20230805				
Source	RTS23/Field2 - Instrument Full Name				
Source Attribute	Source Value		Derivation Method	Result	
Asset Class	Credit		Fixed Value	Credit	
Instrument Type	Option		Fixed Abbreviation	Option	
Product	Non_Standard		Fixed Abbreviation	Non_Standard	

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Underlying Asset Type	CDS on Single Name		Mapped to =>	CDS on Single Name
	CDS on Index Tranche		Mapped to =>	CDS on Index Tranche
	CDS on Index		Mapped to =>	CDS on Index
	Swaps		Mapped to =>	Swaps
	Other		Mapped to =>	Other
Underlying Input	Underlying Instrument ISIN	e.g., US69183QAA40	Extracted value =>	e.g., US69183QAA40
		Multiple Input ISIN	Mapped to =>	Multiple ISINs
	Underlying Instrument LEI	e.g., INR2EJN I ERAN0W5ZP974	Extracted value =>	e.g., INR2EJN1ERAN0W5ZP974
		Multiple Input LEI	Mapped to =>	Multiple LEIs
	Underlying Instrument Index	e.g., ITRAXX EUROPE	Extracted value =>	e.g., ITRAXX EUROPE
		Multiple Input Index	Mapped to =>	Multiple Indices
	Underlying Instrument Index Prop	e.g., 11339-MLSREISU	Extracted value =>	e.g., MLSREISU
		Multiple Input Index Prop	Mapped to =>	Multiple Indices
	Underlying Instrument e.g., ITRAXX EUROPE, I1339-MLSREISU		Mapped to =>	Multiple Indices
Notional Currency	Notional Currency		Mapped Enumeration	e.g., USD, EUR, GBP
Expiry Date	Expiry Date		Date Format (YYYYMMDD)	20230805
	1			

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# 4.2.2 Classification Type

Attribute	Classification Type		
Structure	Instrument Type + Asset Class + Underlying or Trigger + Delivery Type	g Asset Type + Option Type	s/Style + Valuation Method
Example	HCUBVP		
Source	ISO 10962 (CFI) – Third edition 2015-07-15	5	
Source Attribute	Source Value	Derivation Method	Result
Instrument Type	Non-listed and complex listed options	Н	
Asset Class	Credit	Fixed Mapping	С
Underlying Asset Type	CDS on Single Name	Mapped to =>	U
	CDS on Index Tranche	Mapped to =>	V
	CDS on Index	Mapped to =>	I
	Swaps	Mapped to =>	W
	Other	Mapped to =>	М
Option Style and Type	PUTO/EURO	Mapped to =>	D
	CALL/EURO	Mapped to =>	A
	OPTL/EURO	Mapped to =>	G
	PUTO/AMER	Mapped to =>	Е
	PUTO/BERM	Mapped to =>	F
	CALL/AMER	Mapped to =>	В
	CALL/BERM	Mapped to =>	С
	OPTL/AMER	Mapped to =>	Н
	OPTL/BERM	Mapped to =>	I
Valuation Method or Trigger	Vanilla	Mapped to =>	٧
<b>30</b> ·	Asian	Mapped to =>	A
	Digital (Binary)	Mapped to =>	D

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	Barrier	Mapped to =>	В
	Digital Barrier	Mapped to =>	G
	Lookback	Mapped to =>	L
	Other Path Dependent	Mapped to =>	P
	Other	Mapped to =>	М
Delivery Type	CASH	Mapped to =>	С
	PHYS	Mapped to =>	P
	OPTL	Mapped to =>	Е

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### 4.2.3 Short Name

Attribute	Short Name						
Structure	"NA" + "/" + Product Type + Valuation Me + Expiry Date	A" + "/" + Product Type + Valuation Method or Trigger + Debt Seniority* + Notional Currency expiry Date					
Example	NA/CDS Nstd Van Sr LKR 20230805	NA/CDS Nstd Van Sr LKR 20230805					
Source	ISO 18774 (Financial Instrument Short Nam	ne) - First edition 2015-11					
Source Attribute	Source Value Derivation Method Result						
Issuer Name	None	Fixed Value	NA/				
Product Type	CDS Non_Standard	Fixed Abbreviation	CDS Nstd				
Valuation Method or Trigger	Vanilla	Mapped to =>	Van				
	Asian Mapped to =>		ASIN				
	Digital (Binary) Mapped to =>		Dig				
	Barrier	Mapped to =>	Bar				
	Digital Barrier	Mapped to =>	DigBar				
	Lookback	Mapped to =>	Lkbck				
	Other Path Dependent	Mapped to =>	OthDep				
	Other	Mapped to =>	Oth				
Debt Seniority*	SNDB	Mapped to =>	Sr				
	MZZD	Mapped to =>	Mz				
	SBOD	Mapped to =>	Sub				
	JUND	Mapped to =>	Jr				
Notional Currency	Notional Currency	Mapped Enumeration	e.g., USD, EUR, GBP				
Expiry Date	Expiry Date	Date Format (YYYYMMDD)	20230805				

<sup>\*</sup> Debt Seniority only applies if Underlying Instrument ISIN/LEI is selected.

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### 4.2.4 ISO Underlying Instrument Index

Attribute	ISO Underlying Instrument I		
Source Attribute	Source Value	Derivation Method	Result
Underlying Instrument Index	e.g., ITRAXX EUROPE	Extracted value =>	e.g., ITRAXX EUROPE
	Multiple Input Index	Mapped to =>	Multiple Indices
Underlying Instrument Index Prop	e.g., 11339-MLSREISU	Extracted value =>	e.g., MLSREISU
	Multiple Input Index Prop	Mapped to =>	Multiple Indices

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# 5. Supplementary Information

#### 5.1 Best Practice Guidelines

Please refer to Best Practice Guidelines and FAQs (See Section 1.1).

#### 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.

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# 6. Appendix I - OTC ISIN-UPI Mapping

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

Asset Class  Direct Map  Asset Class  Credit  Instrument Type  Direct Map  Instrument Type  Option  Use Case  Direct Map  Product  Non_Standard  Level  Set to "UPI"  Level  UPI  Notional Currency  No Mapping  Expiry Date  No Mapping  Price Multiplier  No Mapping  Set to "Fixed Income  Underlier Type  Fixed Income Security	"One Of" Underlier
Instrument Type  Direct Map  Direct Map  Product  Non_Standard  Level  Set to "UP!"  Level  Notional Currency  No Mapping  Price Multiplier  No Mapping  Price Multiplier  No Mapping  Set to "Fixed Income Security"  Map to Underlier ID US92857WBQ24  Set to "UP!"  Underlying Asset Type = "CDS on Single Name" or "Swaps" or "Other"  A  If Underlying Underlier ID Source  Set to "UP!"  Set to "UP!"  Underlier ID Source  Underlier ID QZQBT22R6XX4  If Underlying Underlier ID Source  If Underlying Underlier ID Source  Underlier ID Source  Very Underlier ID Source  Set to "UP!"  Underlier ID Source  Underlier ID Source  Underlier ID Source  Very Underlier ID Source  Ver	Underlier
Instrument Type  Direct Map  Direct Map  Product  Non_Standard  Level  Set to "UPI"  Level  No Mapping  Price Multiplier  No Mapping  Price Multiplier  No Mapping  Price Multiplier  No Mapping  Set to "Fixed Income Security"  Map to Underlier ID US92857WBQ24  Set to "USIN, FIGI, CUSIP, SEDOL"  Set to "UPI"  Underlier Type  Set to "UPI"  Underlier Type  Fixed Income Security  Set to "UPI"  Underlier ID Source  ISIN  Set to "UPI"  Underlier Type	Underlier
Use Case  Direct Map Product Non_Standard  Level Level  Level UPI  Notional Currency No Mapping Price Multiplier  No Mapping Price Multiplier  No Mapping  Price Multiplier  No Mapping  Set to "Fixed Income Security  Map to Underlier Type Fixed Income Security  Map to Underlier ID US92857WBQ24  Set to "UPI" Underlier ID Source Security  Set to "UPI" Underlier Type UPI  From Underlier Type UPI  From Underlier ID QZQBT22R6XX4  If Underlying Instrument ISIN/Parent/UPI Set to "UPI" Underlier ID Source UPI  If Underlying Instrument Underlier ID Source UPI  If Underlying Instrument Underlier ID Source UPI  Underlier ID Source UPI  If Underlying Instrument Underlier ID Source UPI  Underlier ID Source UPI  If Underlying Instrument Underlier ID Source UPI  Underlier ID Source UPI Underlying Underlier ID Source UPI	Underlier
Level  Level  Set to "UPI"  Level  UPI  No Mapping  Expiry Date  Price Multiplier  No Mapping  Set to "Fixed Income Security  Security"  Map to  Underlier ID  Us92857WBQ24  Set to "ISIN, FiGi, CUSIP, SEDOL"  Set to "UPI"  Underlier Type  Set to "UPI"  Underlier ID Source  ISIN  From  Underlying  Instrument ISIN  If Underlying  Instrument  ISIN/Parent/UPI  Set to "UPI"  Underlier ID  QZQBT22R6XX4  If Underlying  If Underlying  Instrument  Underlier ID Source  UPI  If Underlying  Instrument  Underlier ID	Underlier
Level  Level  Set to "UPI"  Level  UPI  No Mapping  Expiry Date  Price Multiplier  No Mapping  Set to "Fixed Income Security  Security"  Map to  Underlier ID  Us92857WBQ24  Set to "ISIN, FiGi, CUSIP, SEDOL"  Set to "UPI"  Underlier Type  Set to "UPI"  Underlier ID Source  ISIN  From  Underlying  Instrument ISIN  If Underlying  Instrument  ISIN/Parent/UPI  Set to "UPI"  Underlier ID  QZQBT22R6XX4  If Underlying  If Underlying  Instrument  Underlier ID Source  UPI  If Underlying  Instrument  Underlier ID	Underlier
Notional Currency  Ro Mapping  Expiry Date  No Mapping  If Underlying Asset Type = "CDS on Single Name" or "Swaps" or "Other"  If Underlying Instrument ISIN  No Mapping  Underlier Type  Fixed Income Security  Set to "ISIN, FIGI, CUSIP, SEDOL"  Set to "UPI"  Underlier ID Source  ISIN  Set to "UPI"  Underlier Type  UPI  From Underlying Instrument ISIN/Parent/UPI  Underlier ID  QZQBT22R6XX4  If Underlying Instrument ISIN/Parent/UPI  Underlier ID Source  UPI  If Underlying Instrument ISIN/Parent/UPI  Underlier ID  Underlier ID  Rasket  Rasket	Underlier
Notional Currency  Expiry Date  No Mapping  Price Multiplier  No Mapping  No Mapping  No Mapping  No Mapping  No Mapping  If Underlying Asset Type = "CDS on Single Name" or "Swaps" or "Other"  If Underlying Instrument ISIN  No Mapping  Underlier Type  Fixed Income Security  Set to "ISIN, FIGI, CUSIP, SEDOL"  Set to "UPI"  Underlier ID Source  ISIN  Set to "UPI"  Underlier Type  Underlier ID Source  ISIN  Set to "UPI"  Underlier ID  QZQBT22R6XX4  If Underlying Instrument ISIN/Parent/UPI  Underlier ID Source  UPI  If Underlying Instrument ISIN/Parent/UPI  Underlier ID Underlier ID  QZQBT22R6XX4	Underlier
Expiry Date  No Mapping  Price Multiplier  No Mapping  Set to "Fixed Income Security"  Map to  Underlier ID  Us92857WBQ24  If Underlying Asset Type = "CDS on Single Name" or "Swaps" or "Other"  Underlying Instrument ISIN  If Underlying Asset Type = "CDS on Single Name" or "Swaps" or "Other"  Underlying Underlier ID  Set to "UPI"  Underlier ID  Underlier Type  Underlier Type  Underlier Type  Underlier ID  QZQBT22R6XX4  If Underlying Instrument ISIN/Parent/UPI  Underlier ID Source  Underlier ID	Underlier
Price Multiplier  No Mapping  Set to "Fixed Income Security"  Map to Underlier ID US92857WBQ24  If Underlying Asset Type = "CDS on Single Name" or "Swaps" or "Other"  A  Underlying Instrument ISIN  If Underlying Name" or "Swaps" or "Other"  If Underlying Underlier ID Source ISIN  Set to "UPI"  Underlier ID Source UPI  From Underlying Instrument ISIN/Parent/UPI  Set to "UPI"  Underlier ID QZQBT22R6XX4  If Underlying Underlier ID Source UPI  If Underlying Map to Underlier ID Source UPI	Underlier
A  Price Multiplier  No Mapping  Set to "Fixed Income Security"  Map to Underlier ID US92857WBQ24  Set to "ISIN, FIGI, CUSIP, SEDOL"  Set to "UPI"  Underlier ID Source  ISIN  ISIN  From Underlier ID UPI  From Underlier ID UPI  From Underlier ID QZQBT22R6XX4  If Underlying Instrument ISIN/Parent/UPI  Set to "UPI"  Underlier ID Source  Underlier ID QZQBT22R6XX4  If Underlying Underlier ID Source  If Underlying Underlier ID Source  Underlier ID QZQBT22R6XX4	Underlier
A    Set to "Fixed Income Security"   Set to "Fixed Income Security	Underlier
A  Underlying   Set to "ISIN,   FIGI, CUSIP,   SEDOL"   Set to "UPI"   Underlier Type   UPI    From   Underlying   Instrument ISIN   From   Underlier ID   UPI   Underlier ID   UZ92857WBQ24    From   Underlier ID   US92857WBQ24   Set to "ISIN,   FIGI, CUSIP,   SEDOL"   SEDOL"   Underlier ID   Source   UPI   Underlier Type   UPI   Underlier ID   UPI	Underlier
A  Underlying   Set to "ISIN,   FIGI, CUSIP,   SEDOL"   Set to "UPI"   Underlier Type   UPI    From   Underlying   Instrument ISIN   From   Underlier ID   UPI   Underlier ID   UZ92857WBQ24    From   Underlier ID   US92857WBQ24   Set to "ISIN,   FIGI, CUSIP,   SEDOL"   SEDOL"   Underlier ID   Source   UPI   Underlier Type   UPI   Underlier ID   UPI	Underlier
A  Underlying   Name" or "Swaps" or "Other"    Get to "UPI"   Underlier ID   US92857WBQ24	
A  Underlying   Name" or "Swaps" or "Other"  If Underlying   Name or "Swaps" or "Other"  If Underlying   Name or "Swaps" or "Other"  Set to "UPI"   Underlier ID Source   ISIN    Set to "UPI"   Underlier Type   UPI    From   Underlying   Instrument   ISIN/Parent/UPI    Set to "UPI"   Underlier ID   QZQBT22R6XX4    If Underlying   Map to   Underlying Structure   Basket	Туре
A  Underlying   Name" or "Swaps" or "Other"  If Underlying   Name or "Swaps" or "Other"  If Underlying   Name or "Swaps" or "Other"  Set to "UPI"   Underlier ID Source   ISIN    Set to "UPI"   Underlier Type   UPI    From   Underlying   Instrument   ISIN/Parent/UPI    Set to "UPI"   Underlier ID   QZQBT22R6XX4    If Underlying   Map to   Underlying Structure   Basket	
A  Underlying	
Asset Type = "CDS on Single Name" or "Swaps" or "Other"  Set to "UPI" Underlier Type UPI  From Underlying Instrument ISIN/Parent/UPI  Set to "UPI" Underlier ID  QZQBT22R6XX4  If Underlying Instrument ISIN/Parent/UPI  Underlier ID Source UPI  If Underlying Instructure  Hap to Underlying Structure Basket	
A  Underlying Instrument ISIN  Instrument ISIN  Or "Other"  Set to "UPI"  Underlier Type  UPI  From Underlying Instrument ISIN/Parent/UPI  Set to "UPI"  Underlier ID  QZQBT22R6XX4  If Underlying Instrument Underlier ID Source  UPI  If Underlying Instrument Underlying Structure Basket	
A Set to "UPI" Underlier Type UPI  From Underlying Instrument ISIN/Parent/UPI  Set to "UPI" Underlier ID QZQBT22R6XX4  If Underlying Map to Underlying Structure Basket	
From Underlying Instrument ISIN/Parent/UPI  Set to "UPI"  Underlier ID  QZQBT22R6XX4  Underlier ID Source  UPI  If Underlying  Map to Underlying Structure  Basket	
Underlying Instrument ISIN/Parent/UPI Underlier ID QZQBT22R6XX4  Set to "UPI" Underlier ID Source UPI  If Underlying Map to Underlying Structure Basket	
Instrument ISIN/Parent/UPI  Set to "UPI"  Underlier ID  Q2QB122R6XX4  UPI  If Underlying  Map to  Underlying Structure  Basket	
Set to "UPI" Underlier ID Source UPI  If Underlying Map to Underlying Structure Basket	
If Underlying Map to Underlying Structure Basket	
IIISU UITIETU > 1	
Debt Seniority Direct Map Debt Seniority SNDB	
	"One Of"
Set to "Legal Underlier Type Legal Entity	Underlier
TOTAL TOTAL POLICE	Туре
"CDS on Single INR2FIN1FRAN0W57P97	
Underlying Name" or Map to Underlier ID 4 Instrument LEI "Other"	
В	
Set to "LEI" Underlier ID Source LEI	
If Underlying Map to Underlying Structure Basket	
Instrument > I	
Debt Seniority Direct Map Debt Seniority SNDB	
Direct lap Debt schiolity Stab	

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	Underlying	If Underlying Asset Type = "CDS on Index" or "CDS on Index Tranche" or	Set to "Credit Index"	Underlier Type  Underlier ID	Credit Index ITRAXX EUROPE	"One Of" Underlier Type
	Instrument Index	"Other"				
			Set to "CRIDX"	Underlier ID Source	CRIDX	
		If Underlying Instrument > I	Map to	Underlying Structure	Basket	
	Underlying Instrument Index	If Underlying Instrument = I	Direct Map	Underlying Instrument Index Term Value	21	
С	Term Value	If Underlying Instrument > I	No Mapping			
C	Underlying Instrument Index	If Underlying Instrument = I	Direct Map	Underlying Instrument Index Term Unit	DAYS	
	Term Unit	If Underlying Instrument > I	No Mapping			
	Underlying Credit Index Series	If Underlying Instrument = I	Direct Map	Underlying Credit Index Series	2	
		If Underlying Instrument > I	No Mapping			
	Underlying Credit Index Version	If Underlying Instrument = I	Direct Map	Underlying Credit Index Version	4	
		If Underlying Instrument > I	No Mapping			
		If Underlying Asset Type = "CDS on Index"	Set to "Proprietary Index"	Underlier Type	Proprietary Index	"One Of" Underlier Type
	Underlying Instrument Index Prop	or "CDS on Index Tranche" or "Other"	Map to	Underlier ID	11339-MLSREISU	
			Set to "PROP"	Underlier ID Source	PROP	
<b>D</b>		If Underlying Instrument > I	Map to	Underlying Structure	Basket	
D	Underlying Instrument Index	If Underlying Instrument = I	Direct Map	Underlying Instrument Index Term Value	21	
	Term Value	If Underlying Instrument > I	No Mapping			
	Underlying Instrument Index	If Underlying Instrument = I	Direct Map	Underlying Instrument Index Term Unit	DAYS	
	Term Unit	If Underlying Instrument > I	No Mapping			

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	If Underlying		Underlying Credit		
Underlying Credit	Instrument = I	Direct Map	Index Series	2	
index deries	If Underlying Instrument > I	No Mapping			
Underlying Credit	If Underlying Instrument = I	Direct Map	Underlying Credit Index Version	4	
index version	If Underlying Instrument > I	No Mapping			
Underlying Asset Type		Direct Map	Underlying Asset Type	Other	
Option Type		Direct Map	Option Type	OPTL	
Option Exercise Style		Direct Map	Option Exercise Style	BERM	
Valuation Method or Trigger		Direct Map	Valuation Method or Trigger	Asian	
Delivery Type		Direct Map	Delivery Type	PHYS	

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