

CFI GENERATION

Introduction

Following the 2022 Industry Consultation for the 2023 Service, the DSB has created an additional function for CFI generation to bring the Graphical User Interface (GUI) in line with API Connectivity. This will allow all users to generate a CFI code without ISIN or UPI creation.

GUI Environment Updates

Retrieve input template of the GUI

- i. User will need to populate the header – Asset class, instrument type and product, then click **submit**.
- ii. Once they click the submit, all the attributes required for the specific product will be displayed in the screen and same validation of fields will apply for retrieve.
- iii. User needs to click **“Generate CFI code”** instead of **“Create”** to have the CFI codes available without generating an ISIN or UPI. (Description added when users hover their mouse in the button)

For ISIN:

The screenshot displays a web form for generating CFI codes. At the top, there are dropdown menus for 'Asset Class' (Credit), 'Instrument Type' (Swap), 'Product' (Corporate), and 'Level' (InstRefDataReporting), along with a 'LOAD' button. Below this is a section titled 'Request.Credit.Swap.Corporate.InstRefDataReporting' with a 'Header' section containing dropdowns for 'Asset Class', 'Instrument Type', 'Product', and 'Level'. A 'Properties' button is visible. The main form area includes fields for 'National Currency' (USD), 'Expiry Date' (YYYY-MM-DD), 'Underlying Instrument' (dropdown), 'Instrument ISIN' (text input), 'Debt Seniority' (Senior Debt), 'Delivery Type' (Auction), 'Contract Specification' (AsiaCorporate), and 'Price Multiplier' (1). At the bottom right, there are two buttons: 'Generate CFI Code' and 'CREATE'. A red box highlights the 'Generate CFI Code' button, with a callout box below it stating 'Generate CFI code without ISIN creation'. Another red box highlights the 'CREATE' button, with a callout box below it stating 'Create ISIN with attributes and derived'.

For UPI:

Request.Credit.Swap.Corporate.UPI

Header

Asset Class Credit

Instrument Type Swap

Product Corporate

Level UPI

Attributes [Properties](#)

Underlier Type Fixed Income Security

[Properties](#)

Underlier ID Source ISIN

Underlier ID

Debt Seniority Senior Debt

Contract Specification AsiaCorporate

Delivery Type Auction

Return Underlier ID Source: ISIN

Generate CFI Code CREATE ✕

Generate CFI code without UPI creation

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Return Underlier ID Source: ISIN

Generate CFI Code CREATE ✕

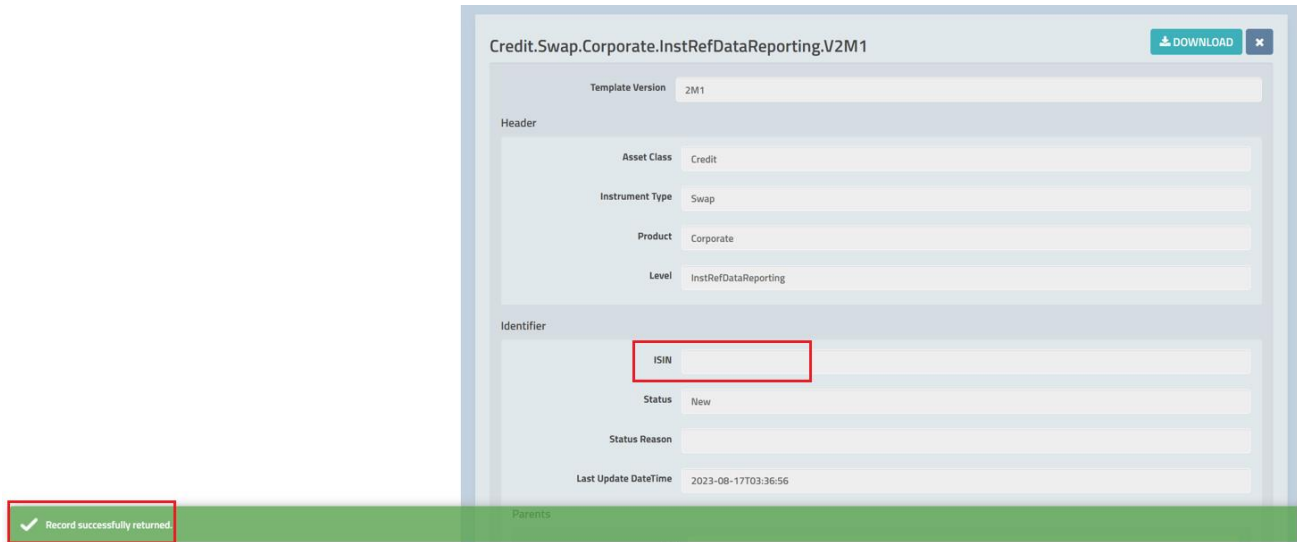
Create UPI with attributes and derived

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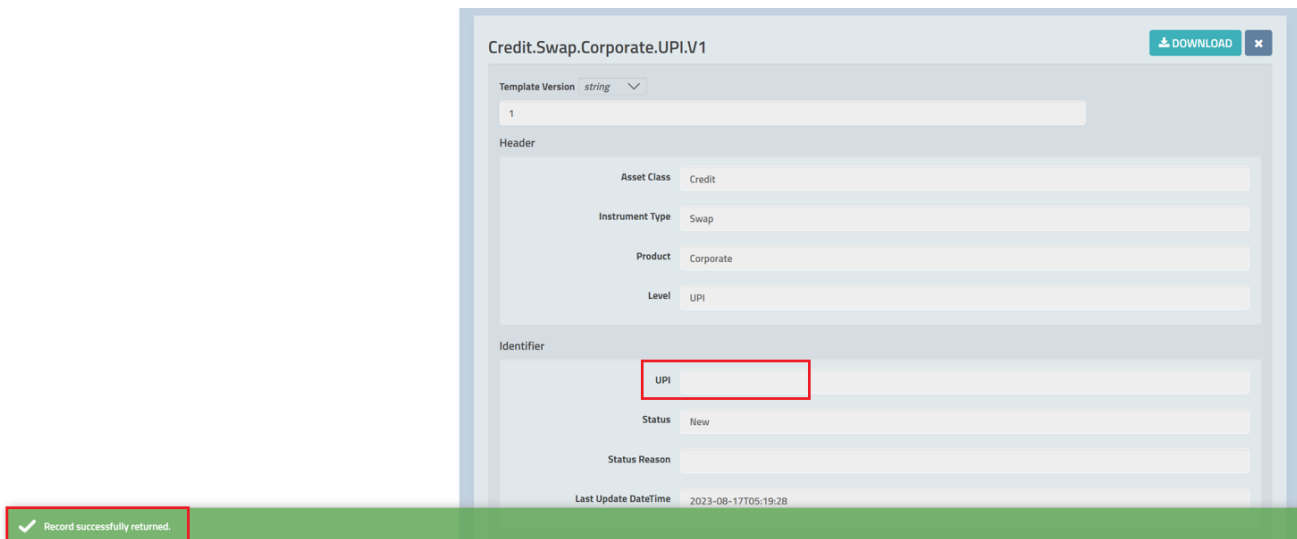
Retrieve output template of the GUI

- i. The output template will be the same as to create an ISIN or UPI but leaving the Identification blank if not created or have identification details if ISIN or UPI created in the past.
- ii. Notifications should be made available in the GUI screen if ISIN or UPI record exists in the DSB or not.
 - a. If no ISIN or UPI record exists, a notification should appear as: “Record successfully returned”.

For ISIN:



For UPI:



- b. If ISIN or UPI record exists: “<ISIN/UIP Identifier> successfully returned”.

For ISIN:

Credit.Swap.Corporate.InstRefDataReporting.V2M1

Template Version 2M1

Header

Asset Class Credit

Instrument Type Swap

Product Corporate

Level InstRefDataReporting

Identifier

ISIN EZDBRMRTFFN4

Status New

Status Reason

Last Update DateTime 2023-07-11T03:17:47

Parents

✓ EZDBRMRTFFN4 successfully returned.

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For UPI:

Credit.Swap.Corporate.UPI.V1

Template Version string

1

Header

Asset Class Credit

Instrument Type Swap

Product Corporate

Level UPI

Identifier

UPI QZ397K1BZTPR

Status New

Status Reason

Last Update DateTime 2023-07-11T03:17:44

Parents

✓ QZ397K1BZTPR successfully returned.

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Support for Alternate Underliers in UPI

The output template will have the same functionality on how Alternate Underliers are supported in the UPI.

- If the Underlier ID Source selected is the Primary Underlier ID Source (ISIN), then the output template must return the Primary Underlier ID as part of the UPI record.
- If the Underlier ID Source selected is the Alternative ID Sources [FIGI; CUSIP; SEDOL], then the output template must return the Primary Underlier ID mapped from the input Alternate Underlier ID as part of the UPI record.
- User is able to define the Return Underlier ID Source subject to user’s permission.
 - If the defined Return Underlier ID Source is the Primary ID Source, then no additional information is provided in the returned UPI record because the Primary ID is already included as part of the UPI record in the ID-specific attribute.
 - If the defined Returned Underlier ID Source is not the Primary ID Source, then the system will return a UPI record that contains any ID that matches the Return Underlier ID Source mapped from the Primary ID as shown in illustration below:

UPI Request when generating a CFI code:

The screenshot displays a web form titled "Request.Credit.Swap.Corporate.UPI". The form is organized into sections: "Header" and "Attributes".

Header Section:

- Asset Class: Credit
- Instrument Type: Swap
- Product: Corporate
- Level: UPI

Attributes Section:

- Underlier Type: Fixed Income Securi
- Underlier ID Source: FIGI
- Underlier ID: BBG010GGVLS4
- Debt Seniority: Senior Debt
- Contract Specification: AsiaCorporate
- Delivery Type: Auction
- Return Underlier ID Source: FIGI

Buttons for "Generate CFI Code", "CREATE", and a close icon are located at the bottom right of the form.

UPI Record is generated with no UPI details but with Underlying Record details as a derived value:

Asset Class: Credit Instrument Type: Swap Product: Corporate Level: UPI [LOAD](#)

Credit.Swap.Corporate.UPI.V1 [DOWNLOAD](#) [✕](#)

Template Version: string
1

Header

Asset Class	Credit
Instrument Type	Swap
Product	Corporate
Level	UPI

Identifier

UPI	
Status	New
Status Reason	
Last Update DateTime	2023-08-18T06:01:42

Derived

Classification Type	SCUCCA
Short Name	NA/CDS Corp SN Sr
Underlier Name	WT EXP RED
Underlying Asset Type	Single Name
Return or Payout Trigger	Credit Default
CFI Delivery Type	Auction
Underlying Issuer Type	Corporate

UnderlyingRecord

Underlying Record 1

Underlier ID	US34964K1161
Underlier ID Source	ISIN
Return Underlier ID Source	FIGI
Return Underlier ID	
Return Underlier ID 1	BBG010GGVLS4

Attributes

Underlying

Instrument ISIN	US34964K1161
Debt Seniority	SNDB
Contract Specification	AsiaCorporate
Delivery Type	OPTL

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Download output template of the GUI

- i. User is able to download the generated ISIN or UPI record regardless of Identification details exist or not.
- ii. Generated ISIN or UPI record with Identification details can be downloaded and stored in the DSB with filename structure: <ISIN/UPI-Identifier>.
- iii. Generated ISIN or UPI record without Identification details can only be downloaded and are not stored in the DSB with filename structure: <CFI-*****>.

Credit.Swap.Corporate.InstRefDataReporting.V2M1
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Template Version

Header

Asset Class	<input type="text" value="Credit"/>
Instrument Type	<input type="text" value="Swap"/>
Product	<input type="text" value="Corporate"/>
Level	<input type="text" value="InstRefDataReporting"/>

Identifier

ISIN	<input type="text"/>
Status	<input type="text" value="New"/>
Status Reason	<input type="text"/>
Last Update DateTime	<input type="text" value="2023-08-18T06:12:52"/>

Parents

UPI	<input type="text"/>
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Derived

Full Name	<input type="text" value="Credit Swap Corporate Single Name US34964K1161 EUR 20240731"/>
Classification Type	<input type="text" value="SCUCCC"/>
Commodity Derivative Indicator	<input type="text" value="FALSE"/>
Issuer or Operator of the Trading Venue Identifier	<input type="text" value="NA"/>
Short Name	<input type="text" value="NA/CDS Corp SN Sr EUR 20240731"/>
Underlying Asset Type	<input type="text" value="Single Name"/>
Return or Payout Trigger	<input type="text" value="Credit Default"/>
Underlying Issuer Type	<input type="text" value="Corporate"/>

Attributes

Notional Currency	<input type="text" value="EUR"/>
Expiry Date	<input type="text" value="2024-07-31"/>

Underlying

Instrument ISIN	<input type="text" value="US34964K1161"/>
Debt Seniority	<input type="text" value="SNDB"/>
Delivery Type	<input type="text" value="CASH"/>
Contract Specification	<input type="text" value="AsiaCorporate"/>
Price Multiplier	<input type="text" value="1"/>

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Process Overview

The user will populate input template and the DSB will allow users to choose whether to retrieve an ISIN or UPI details or create an ISIN or UPI.

For GUI, if users choose to retrieve, DSB will confirm if ISIN or UPI exists or not based on the input template. For existing ISIN or UPI, details will be retrieved in the database and DSB to return the ISIN or UPI record as an output. For non-existing ISIN or UPI, DSB will validate the input template and create an output containing attributes and derived (where CFI codes generated) however leaving the identification table blank.

For API connection, user has different interface compared to GUI, but same input template will be submitted when creating or retrieving an ISIN or UPI. API users must change the link from “create=true” to “create=false”. This will allow user to retrieve an ISIN or UPI details without generating an ISIN or UPI. For existing ISIN or UPI, details will be retrieved in the database and DSB to return the ISIN or UPI record as an output. For non-existing ISIN or UPI, DSB will validate the input template and create an output containing attributes and derived (where CFI codes generated) hence leaving the identification table blank.