Oracle Financial Services Compliance Regulatory Reporting Framework User Guide

Release 8.0.6.0.0
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ORACLE

Oracle Financial Services
Compliance Regulatory Reporting Framework
User Guide

Release 8.0.6.0.0
May 2018

Oracle Financial Services Software, Inc.
1900 Oracle Way
Reston, VA 20190

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About This Guide

The *Compliance Regulatory Reporting Framework User Guide* explains the concepts behind the Oracle Financial Services Compliance Regulatory Reporting Framework application developed to minimize the effort required to create various templates, to avoid mismatch of templates, and where the maximum process to develop the application can be automated.

This chapter discusses the following topics:

- Who Should Use this Guide
- How this Guide is Organized
- Where to Find More Information

Who Should Use this Guide

The *Oracle Financial Services Compliance Regulatory Reporting User Guide* is designed for consulting or development team to produce the reports with very minimum effort and coding required.

How this Guide is Organized

The *Oracle Financial Services Compliance Regulatory Reporting User Guide* includes the following topics:

- Chapter 1, *Source Mapping*, provides details about Data Transfer XSD process.
- Chapter 2, *Target Mapping*, provides details about Target Mapping process.
- Chapter 4, *Validation*, provides details about Validation process.
- Chapter 5, *Final Report Generation XML*, provides details about Report Generation Metadata XML process.
- Chapter 6, *Acknowledgment*, provides details about Acknowledgment process.

Where to Find More Information

For additional information about the Oracle Financial Services Compliance Regulatory Reporting, refer to the following documents:

- Oracle Financial Services Compliance Regulatory Reporting User Guide
- Oracle Financial Services Compliance Regulatory Reporting Administration Guide

To find additional information about how Oracle Financial Services solves real business problems, see our website at www.oracle.com/financialservices.

Conventions Used in this Guide

Table 1 lists the conventions used in this guide.

Table 1. Conventions Used in this Guide

Convention	Meaning
Italics	• Names of books, chapters, and sections as references • Emphasis
Bold	• Object of an action (menu names, field names, options, button names) in a step-by-step procedure • Commands typed at a prompt • User input
`Monospace`	• Directories and subdirectories • File names and extensions • Process names • Code sample, including keywords and variables within text and as separate paragraphs, and user-defined program elements within text
Asterisk	Mandatory fields in User Interface
<Variable>	Substitute input value

CHAPTER 1 Source Mapping

This chapter provides an overview on the Source Mapping feature of CRR framework.

This chapter covers the following topics:

- Introduction
- Managing Source Mapping

Introduction

This module allows the user to configure the mappings from the source system to generic XSD. Here Source System is the Business System or in our case ECM that contains all the data that is present in staging area. CRR application uses the subset of the superset of data maintained in source system. CRR application uses the Generic XSD to communicate with the Source System. This Generic XSD represents the subset of the data that will be extracted from the source system for CRR.

This module helps us to map the table columns from the Source System to the tags in generic XSD.

Managing Source Mapping

To validate if the data is correct and can be submitted to the regulator, follow these steps:

1. Login to the OFSAA application.
2. Select **Financial Services Regulatory Reporting** from the *Select Application* menu.
3. Select the STR as per your requirement.
4. Mouse over the Administration menu and click **Configuration Upload.**

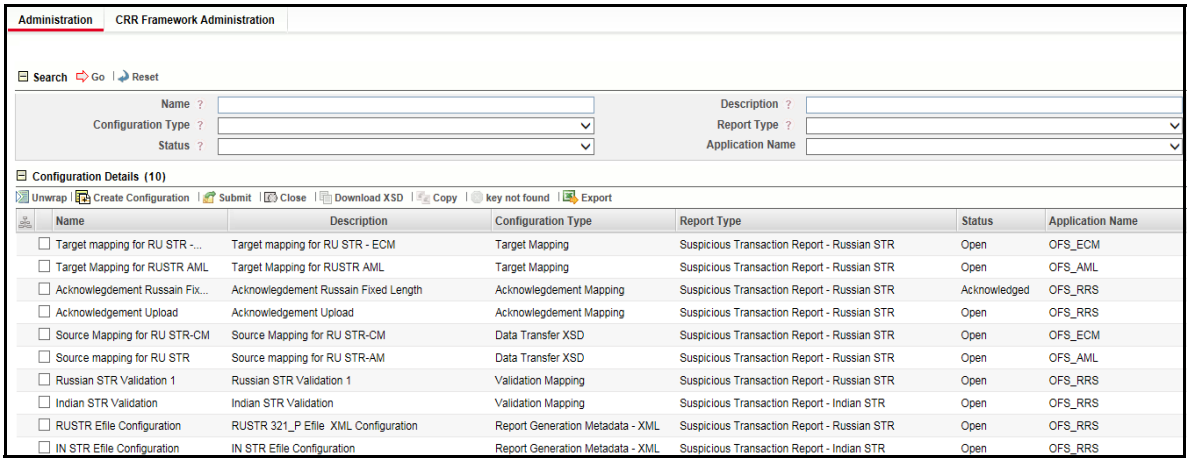


Figure 1. Configuration Details page

The following actions are performed in source mapping:

- Configuration Upload for Source Generic XSD
- Mappings for Generic XSD

Configuration Upload for Source Generic XSD

The application uses Generic XSD to interact with Am/ECM system. Am/ECM system acts as a source and provides business data to CRR application. When user performs its investigation and concludes that they have to submit this case/alert as Suspicious Transaction Report to the regulator. They raise an STR using Generate STR action.

The following are the steps in configuration upload for Source Generic XSD:

1. To generate configuration upload for Source Generic XSD, navigate to Configuration Details page.
2. Click **Create Configuration.** The Configuration upload window is open.

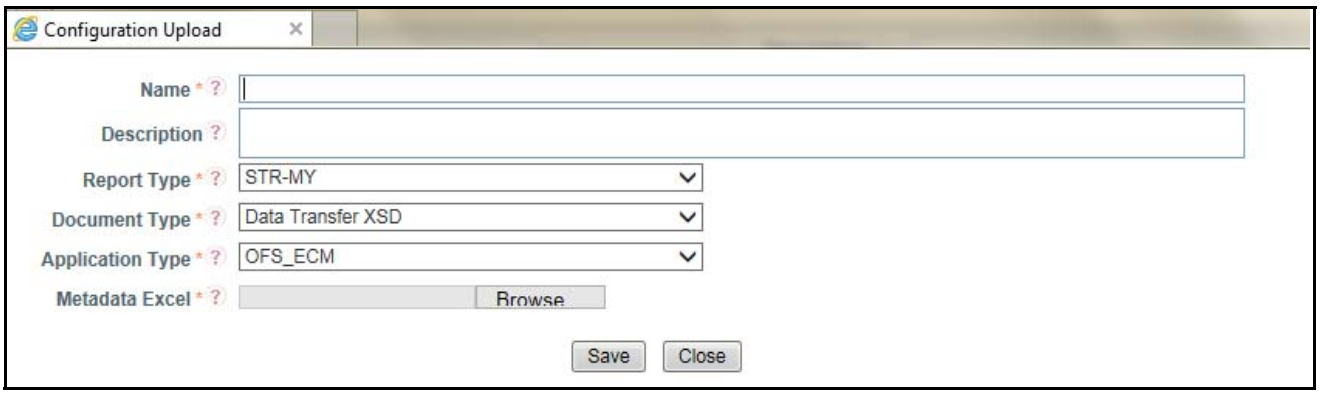


Figure 2. Configuration Upload Window

3. Enter the details given in the below table:

Table 2. Configuration Upload Window Details

Fields	Description
Name	Enter the name for the report.
Description	Enter the description for the report.
Report Type	Select the report type from the drop-down list.
Document Type	Select the document type from the drop-down list.
Application Type	Select the application type from the drop-down list.
Metadata Excel	Click **Browse** to attach the excel sheet saved in your local system.

4. Click **Save** to save the Source Generic XSD.
5. The created Data Transfer XSD is saved in the Configuration Details grid list.
6. Mark the check box for the created Data Transfer XSD, the details are shown below in the same window.

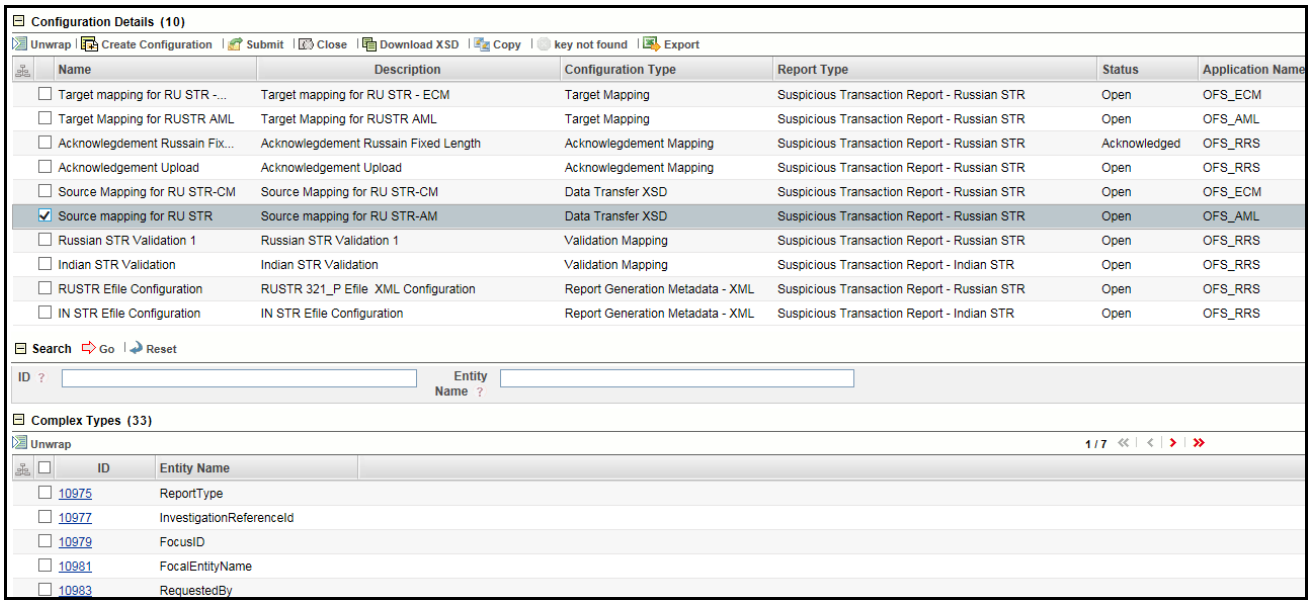


Figure 3. Data Transfer XSD details

The following are the grids in Data Transfer XSD:

- Search
- Complex Types Grid
- Managing Complex Types

Search

This field enables the user to search the complex type based on few entities. There are two fields given in the search grid. This can be used to search the complex types based on ID and Entity Name.

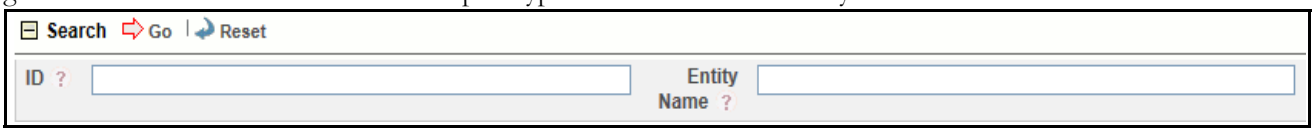


Figure 4. Search Grid

Table 3. Search Grid Details

Fields	Description
ID	Enter the ID number of the complex type
Entity Name	Enter the Entity name of the complex type

Complex Types Grid

This section displays the list of types fetched from the Metadata excel uploaded while creating the Data Transfer XSD:.

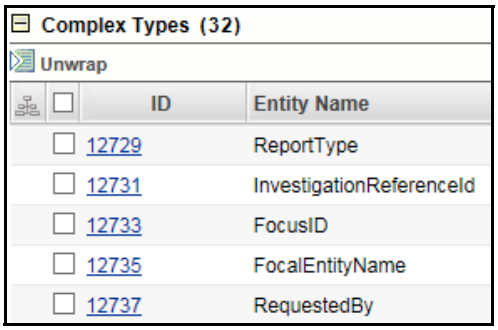


Figure 5. Complex Types Grid

Table 4. Complex Types Grid

Fields	Description
ID	This column displays the ID number of the Output Configuration
Entity Name	This column displays the Entity name of the Output Configuration

Managing Complex Types

The complex type grid shows all the types fetched from the Metadata excel uploaded while creating the Data Transfer XSD. Each Element of Generic XSD indicates the table and each attribute in generic XSD indicates the column of that table. So we receive the data from tables and columns of Business Data from source system. To view or edit the details follow the below given steps:

1. Click the **ID number** given in the ID column. **Complex Type Definition** window is open.
2. The following are the grids shown in the window:
   - Entity Dataset Grid
   - Search Grid
   - Complex Attribute Grid

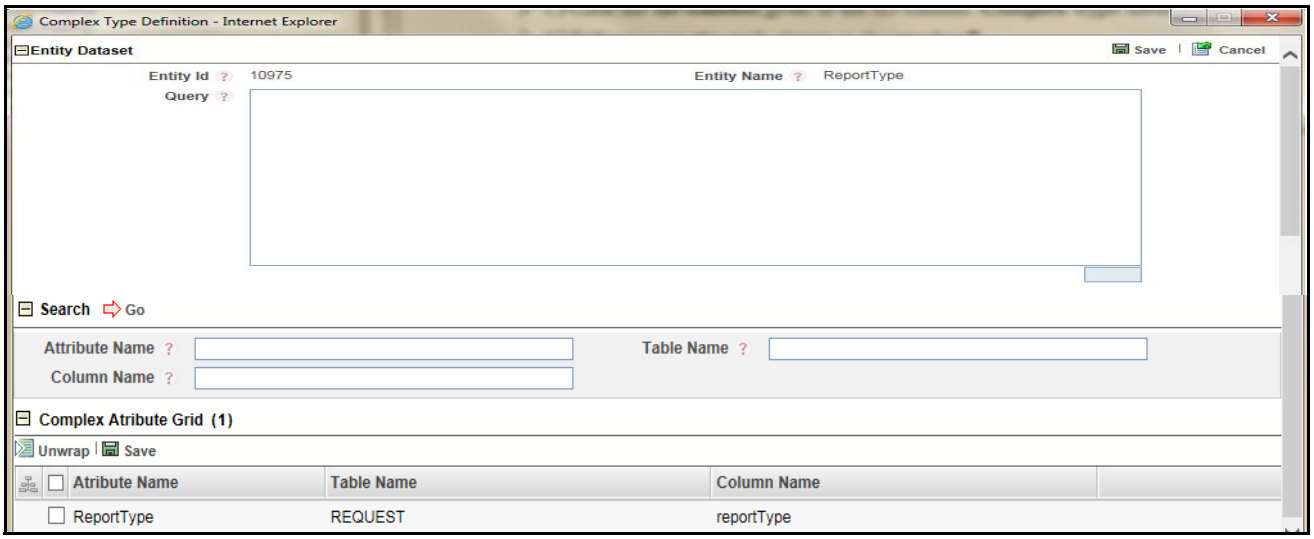


Figure 6. Complex Type Definition Window

Entity Dataset Grid

This grid has three fields Entity Id, Entity Name and Query. The details are displayed here, the Entity Id and Entity name cannot be edited. Query can be added as required.

Search Grid

This field enables the user to search the complex type based on few entities. This grid has three fields Attribute Name, Table Name and Column Name. These fields can be used to search the attributes from the various attributes available in the complex attribute grid.

Complex Attribute Grid

This grid displays the number of attributes available in this Id. The table name and the column name can be edited in the list.

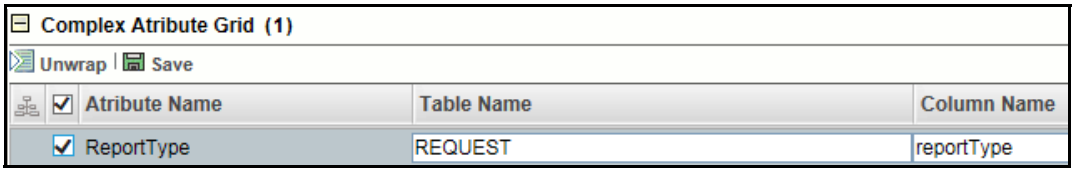


Figure 7. Complex Attribute Grid

Table 5. Complex Attribute Grid Details

Fields	Description
Attribute Name	This column displays the attribute name.
Table Name	This column displays the Table name. Once the attribute is selected this field editable.
Column Name	This column displays the Column name. Once the attribute is selected this field editable.

Click **Save** to save the changes done for the attribute.

3. Click **Save** to save the changes done in the Complex Type Definition window.

Mappings for Generic XSD

Once this document is uploaded, it will create a row in configuration lists. Following are the steps:

1. When user clicks on that row they will be able to check the elements and attributes that a module was able to recognize automatically.
2. Now click on ID of an element, this opens a popup.
3. In the popup user provides the query to get data in this element. In the popup user can also be able to see the underlying attributes for selected element.
4. User can then provide Table Column Mapping for each attribute for this element.

User have to take care of the following while providing the mapping:

- The names of attribute matches with the name of column for that table, so user can then recognize which table column to map for this attribute.
- If user want to map some extra table column which is not present as a separate attribute please use Custom Fields for that data type.
- User needs to make sure that Data Type and Data Length to match for each attribute and table column mappings.

Once you have provided the mappings, click **Save** and **Submit** this module. This automatically performs the data ingestion process from the source system to generic XSD.

CHAPTER 2 Target Mapping

This chapter provides an overview on the Target Mapping feature of CRR framework.

This chapter covers the following topics:

- Introduction
- Managing Target Mapping UI
- Description of Excel Configuration Sheet

Introduction

This module allows the user to configure the mappings from the Generic XSD to the Target System that is the CRR Data Model. Each tag/element of generic XSD will get mapped to table columns for CRR Data model. This Module with combination of Data Transfer XSD will help us to automate the entire data ingestion process.

Managing Target Mapping UI

To validate if the data is correct and can be submitted to the regulator, follow these steps:

1. Login to the OFSAA application.
2. Select **Financial Services Regulatory Reporting** from the *Select Application* menu.
3. Select the STR as per your requirement.
4. Mouse over the Administration menu and click **Configuration Upload.**

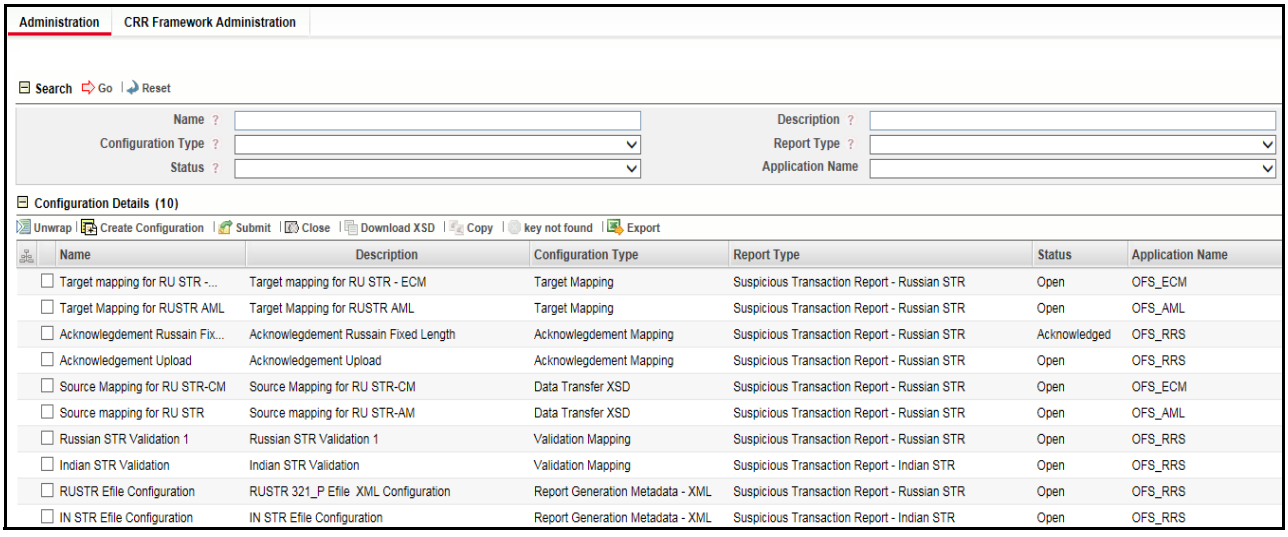


Figure 8. Configuration Details Page

Following are the actions which can be performed in Target Mapping:

- Configuration Upload for Target Mapping
- Description of Excel Configuration Sheet.

Configuring to Upload for Target Mapping

Target Mapping is the mapping the UI fields to CRR Data Model table and columns. This module uses Data Mapping sheet to get the mapping of each field to CRR Table/column. This is completely configurable and user provides all the details in Excel format.

The user provides the genericXSD which contains details the format in which data is transferred from AM/ECM source system. This document is uploaded using Upload Configuration feature when user does Create Configuration action.User uploads this configuration separately for AM and CM system.

Following are the Following are the steps in configuration upload for Target Mapping:

1. To generate configuration upload for Target Mapping, navigate to Configuration Details page.
2. Click **Create Configuration.** The Configuration upload window is open.

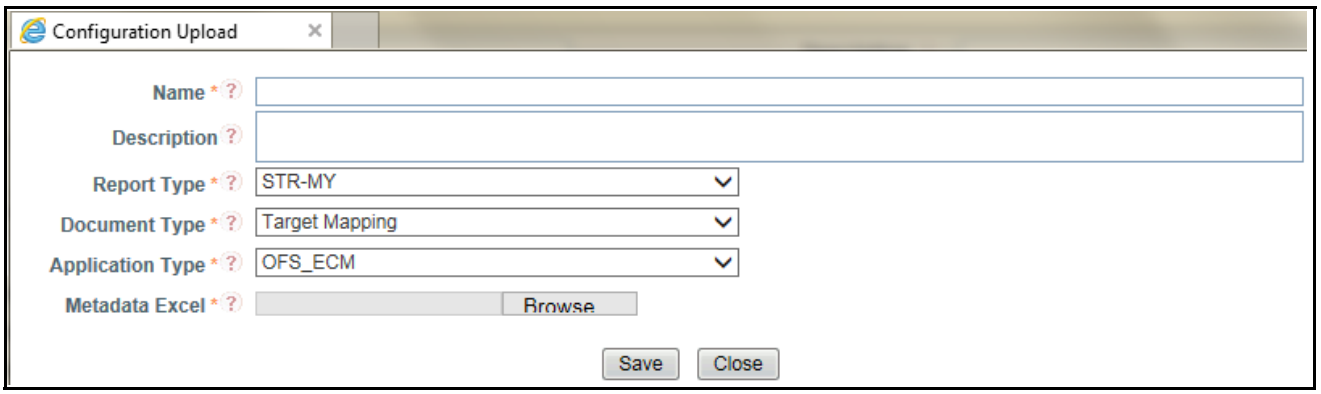


Figure 9. Configuration Upload Window

3. Enter the details given in the below table:

Table 6. Configuration Upload Window Details

Fields	Description
Name	Enter the name for the report.
Description	Enter the description for the report.
Report Type	Select the report type from the drop-down list.
Document Type	Select the document type from the drop-down list.
Application Type	Select the application type from the drop-down list.
Metadata Excel	Click **Browse** to attach the excel sheet saved in your local system.

4. Click **Save** to save the Target Mapping.
5. The created Target Mapping is saved in the Configuration Details grid list.
6. Mark the checkbox for the created Data Transfer XSD, the details are shown below in the same window.

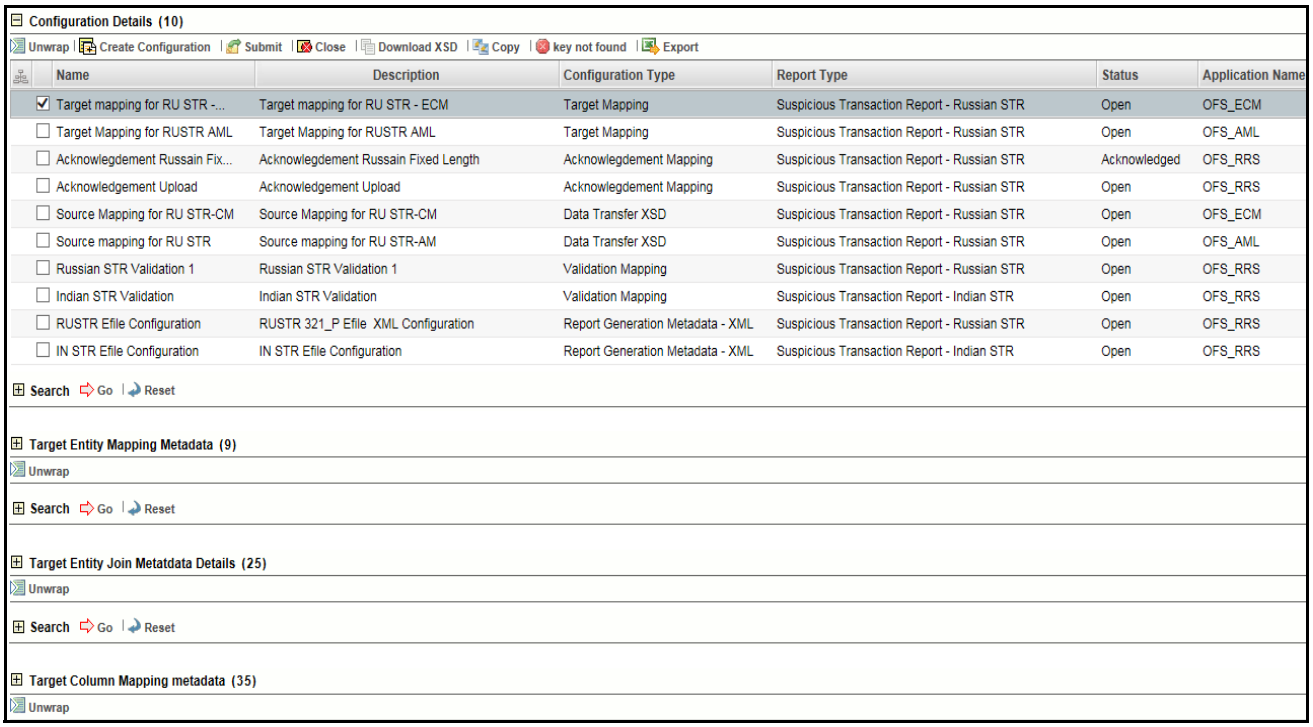


Figure 10. Target Mapping details

Below are the grids in Target Mapping:

- Target Entity Metadata
- Target Entity Join Metadata
- Target Column Mapping Metadata

Target Entity Metadata

Target Entity Metadata grid gives the details about the Business Entity, Business Sub Entity and Business Sub Entity Key.

There are two subsection in Target Entity Metadata:

- Search for Target Entity
- Target Entity Mapping Metadata

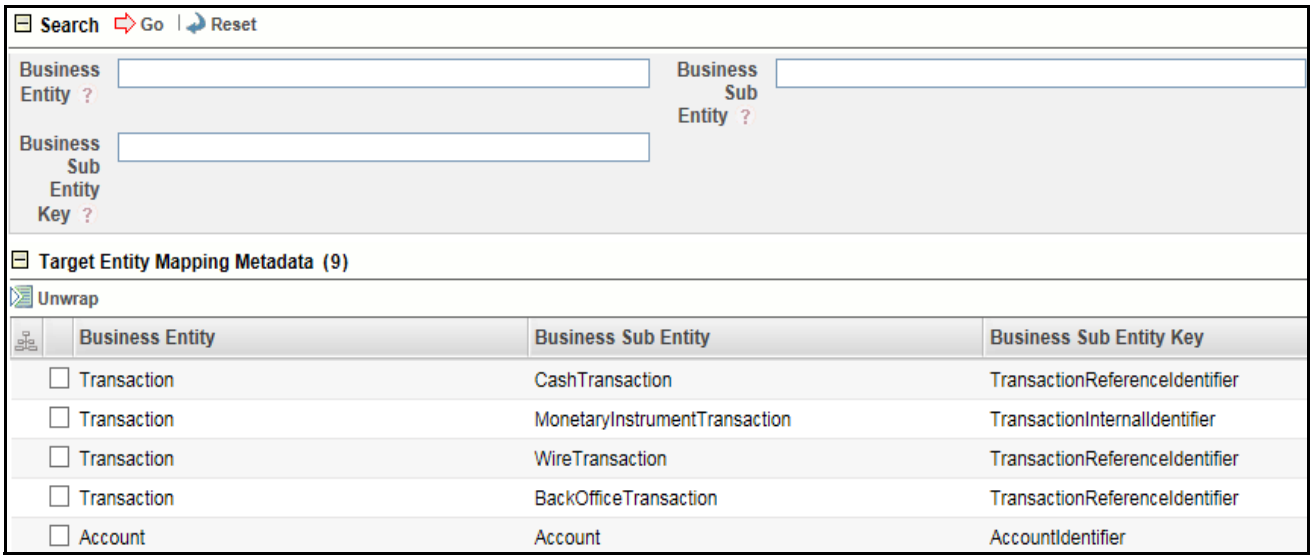


Figure 11. Target Entity Mapping Metadata

Search for Target Entity

There are four fields given in the search grid. This can be used to search the Target Entity Mapping Metadata using Target Entity Mapping Metadata based on Business Entity, Business Sub Entity and Business Sub Entity Key..

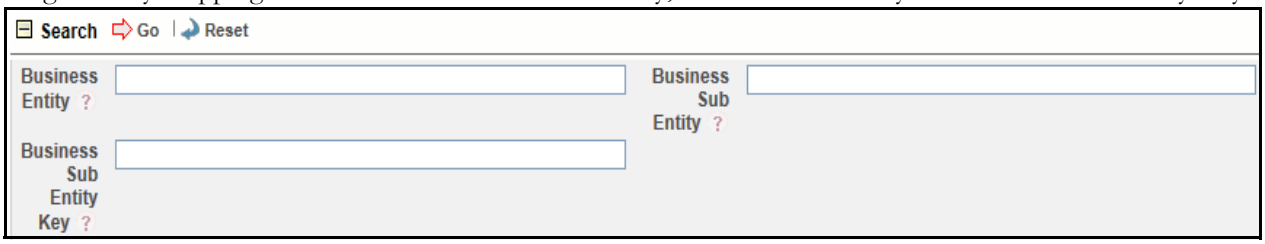


Figure 12. Search Grid

Table 7. Search Grid Details

Fields	Description
Business Entity	Enter the required business enity to search
Business Sub Entity	Enter the required business sub enity to search
Business Sub Entity Key	Enter the required business sub enity key to search

Target Entity Mapping Metadata

This grid shows the list of Target Entity Mapping Metadata.This data is fetched from the metadata excel uploaded while creating the Target Entity Mapping Metadata.

The Target Entity Mapping Metadata grid gives the list of entity and entity keys.

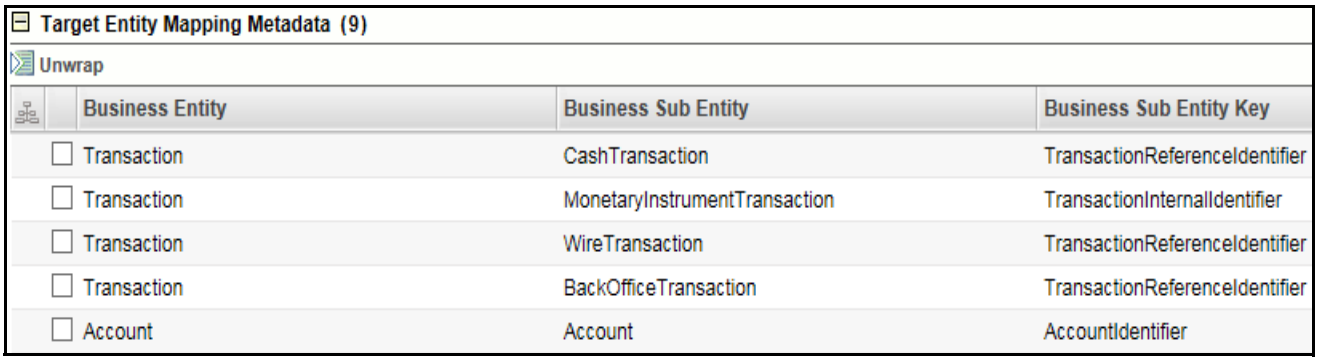


Figure 13. Target Entity Mapping Metadata

Table 8. Target Entity Mapping Metadata

Fields	Description
Business Entity	This column displays the business entity of the target entity.
Business Sub Entity	This column displays the business sub entity of the target entity.
Business Sub Entity Key	This column displays the business sub entity key of the target entity.

Target Entity Join Metadata

Target Entity Join Metadata grid gives the details about the Entity, Sub Entity, Sub Entity Join and Sub Enity Filter. There are two subsection in Target Entity Mapping Metadata:

- Search for Join Metadata
- Target Entity Join Metadata

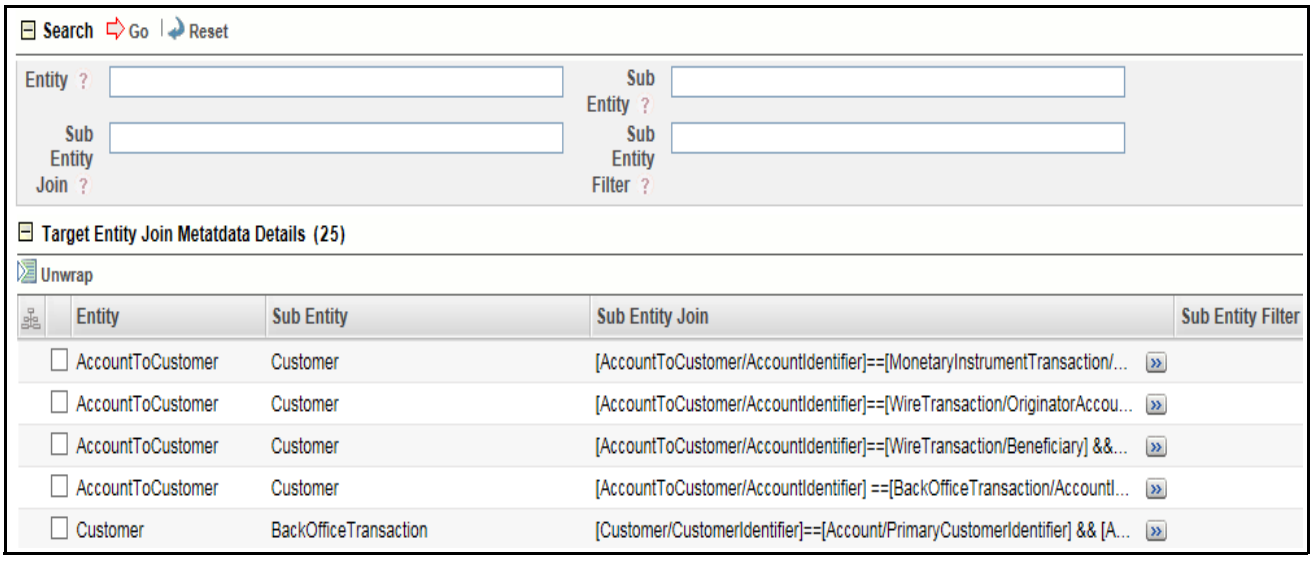


Figure 14. Target Entity Join Metadata

Search for Join Metadata

There are four fields given in the search grid. This can be used to search the Target Entity Join Metadata using Target Entity Join Metadata based on Entity, Sub Entity, Sub Entity Join and Sub Enity Filter.

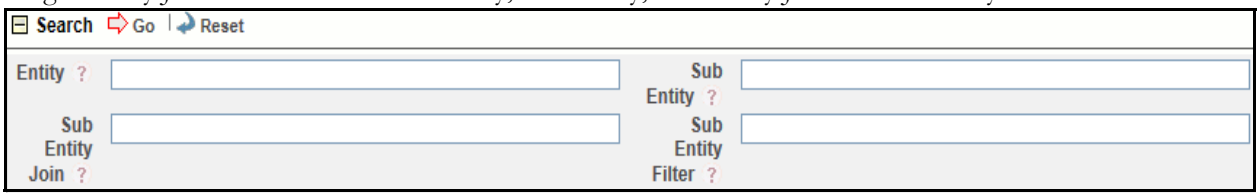


Figure 15. Search Grid

Table 9. Search Grid Details

Fields	Description
Entity	Enter the required enity to search
Sub Entity	Enter the required sub enity to search
Sub Entity Join	Enter the required sub enity join to search
Sub Entity Filter	Enter the required sub enity filter to search

Target Entity Join Metadata

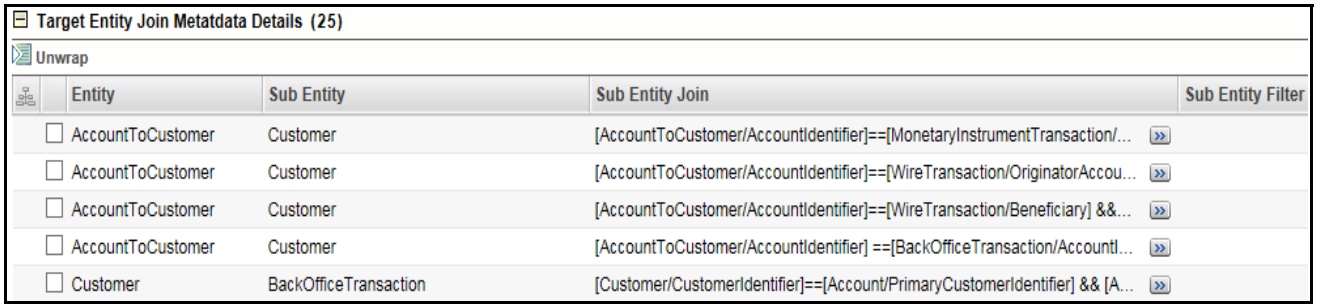


Figure 16. Target Entity Join Metadata

Table 10. Target Entity Join Metadata

Fields	Description
Entity	This column displays the entity of the target entity.
Sub Entity	This column displays the sub entity of the target entity.
Sub Entity Join	This column displays the sub entity join of the target entity.
Sub Entity Filter	This column displays the sub entity filter of the target entity.

Target Column Mapping Metadata

Target Column Mapping Metadata grid gives the details about the Field Name, XPath, Source Business Entity, Target Table, Target Column, Data Type, Comments, Reference Table Name, Reference Column Name, Referenced Primary Key and the Default Value.

There are two subsection in Target Column Mapping Metadata:

- Search for Target Column Mapping
- Target Column Mapping Metadata

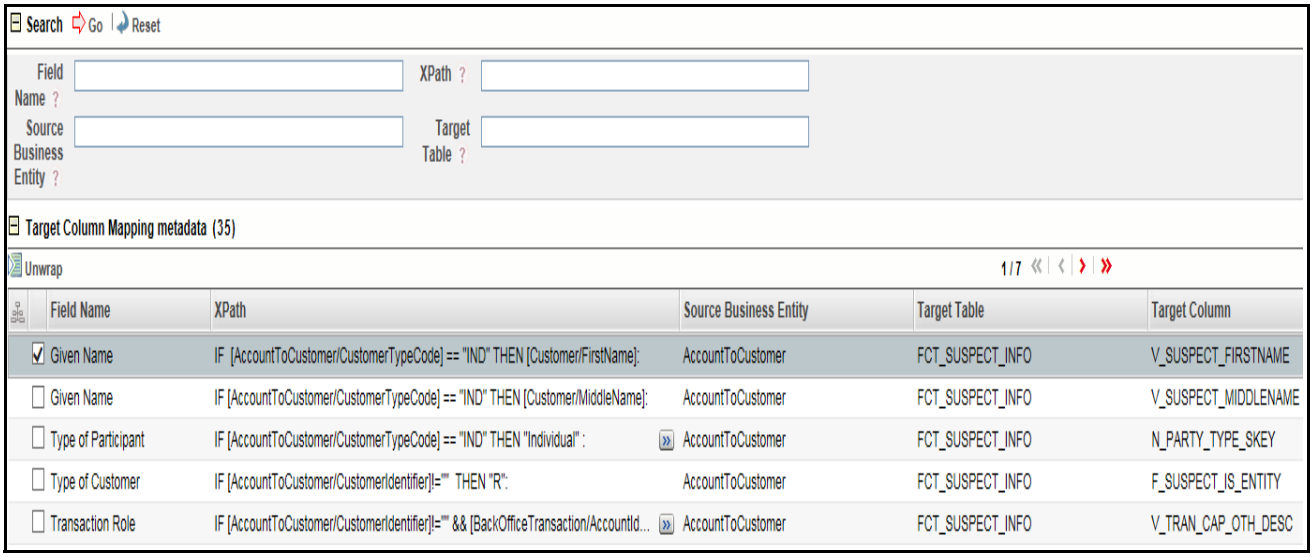


Figure 17. Target Column Mapping Metadata

Search for Target Column Mapping

There are four fields given in the search grid. This can be used to search the Target Column Mapping Metadata using the Target Column Mapping Metadata based on Field Name, XPath, Source Business Entity, Target Table.

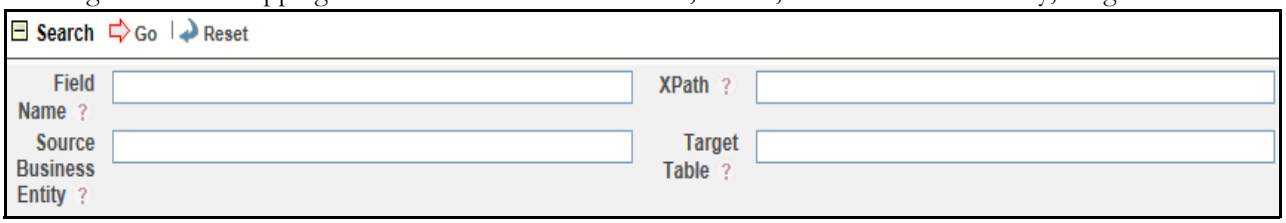


Figure 18. Search Grid

Table 11. Search Grid Details

Fields	Description
Field Name	Enter the required field name to search the entity
XPath	Enter the required xpath to search the entity
Source Business Entity	Enter the required source business entity to search the entity
Target Table	Enter the required target table name to search the entity

Target Column Mapping Metadata

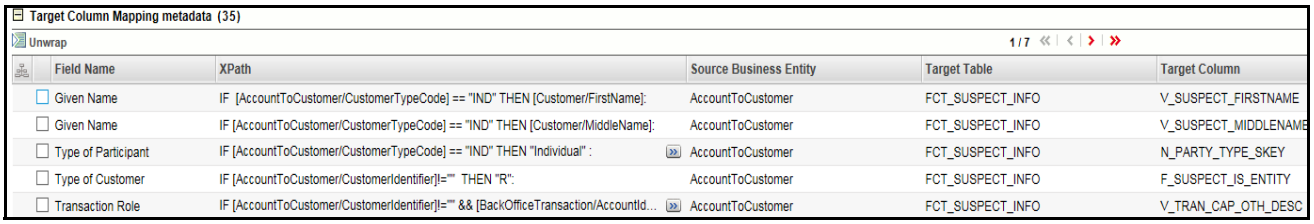


Figure 19. Target Column Mapping Metadata

Table 12. Target Column Mapping Metadata

Fields	Description
Field Name	This column displays the field name of the target column mapping.
XPath	This column displays the XPath of the target column mapping.
Source Business Entity	This column displays the Source Business Entity of the target column mapping.
Target Table	This column displays the Target Table of the target column mapping.
Target Column	This column displays the Target Column of the target column mapping.
Data Type	This column displays the Data Type of the target column mapping.
Comments	This column displays the Comments of the target column mapping.
Reference Table Name	This column displays the of the Reference Table Name target column mapping.
Reference Column Name	This column displays the Reference Column Name of the target column mapping.
Referenced Primary Key	This column displays the Referenced Primary Key of the target column mapping.
Default Value	This column displays the Default Value of the target column mapping.

Description of Excel Configuration Sheet

There are three sheets in the configuration Excel:

- Entity Sheet
- Join Sheets
- Mapping Sheet

Entity Sheet

This sheet enables the users to provide details about all the entities as provided by Generic XSD Business Data which is used by the system.

Table 13. Entity Sheet Details

Physical Column Name	Business Column Name	Description	Example
V_BUSINESS_ENTITY	Business Entity	This field enables user to identify all the entities that is there in source Data (Generic XSD and Business Tables	• Transaction • Account • Customer • Customer Address • Customer Phone
V_BUSINESS_SUB_ENTITY	Business Sub Entity	This field helps the user to understand the sub categories of the entities defined.	• Cash Transaction • Monetary Instrument Transaction • Wire Transaction • Back Office Transaction • Insurance Transaction
V_BUSINESS_SUB_KEY	Business Sub Key	These fields is used to provide primary key of the entity business table.	• Transaction Reference Identifier • Insurance Transaction Reference Identifier • Account Identifier • Customer Identifier • Address Record Number • Phone Record Number

Join Sheets

This sheet enables the user to provide details about Joins that is used to link entities with each other.

Table 14. Join Sheet Details

Physical Column Name	Business Column Name	Description	Example
V_BUS_SUB_ENTITY	Business Sub Entity	This field indicates the business sub entity which was mentioned in Entity Sheet which needs joins.	• Account • Customer
V_BUS_SUB_ENTITY_PR	Business Sub Entity Parent	This field indicates the business sub entity which was mentioned in Entity Sheet which acts as parent in the joins.	• Cash Transaction • Monetary Instrument Transaction • Wire Transaction • Back Office Transaction • Insurance Transaction
V_BUS_SUB_ENTITY_JOIN	Join Query	This is the placeholder where the user provides the join queries between the entities.	[Account/AccountIdentifier]==[BackOfficeTransaction/AccountIdentifier]
V_BUS_SUB_ENTITY_FILTER	Filter Conditions	This is the placeholder where the user gives some filter conditions which is applicable for this entity	-

Mapping Sheet

This sheet enables the user to provide details about Joins that is used to link entities with each other.

Table 15. Mapping Sheet Details

Physical Column Name	Business Column Name	Description	Example
Tag Name	Tag Name	This field indicates trhe tag name of the Generic XSD	• Account • Customer
V_UI_FIELD_NAME	UI Field Name	This field provides the field name for this element as per the UI	• Account Type • Account Holder Name • Account Holder Type

Physical Column Name	Business Column Name	Description	Example
V_XPATH_1	XPath	This is the placeholder where user provides the exact query and the Xpath indicating how the data is extracted from the generic XSD.	[Customer/LastName || Customer/FirstName || Customer/MiddleName]: OR [Customer/DisplayName]: OR [Account/AccountDisplayName]:
V_PHY_TRG_TAB_NAME	Physical Target Table Name	This provides the placeholder where the user provides the table name of CRR Data Model. This indicates that this element is stored in this table and column	FCT_ACCOUNT
V_PHY_TRG_COL_NAME	Physical Target Column Name	This provides the placeholder where the user provides the column name of CRR Data Model. This indicates that this element is stored in this table and column	• V_ACCOUNT_NUMBER • N_ACCTYPE_SKEY • V_ACCOUNT_NAME •
V_COMMENTS	Comments	This is the placeholder where user provides any required comments.	-
V_REF_TABLE_NAME	Reference Table Name	This is the placeholder where user provides the name of the table whose data is used in this element.This helps the user to link reference Tables	• DIM_ACCT_TYPE • MAP_ACCT_TYPE_REPTYPE
V_REF_COLUMN_NAME	Reference Column Name	This is the placeholder where user provides the name of the table whose data is used in this element. This helps the user to link reference Tables	V_ACCTSTATUS_CODE
V_REF_SKEY_COL_NAME	Reference Key Column Name	This is the placeholder where the key column which is used as foreign key for reference table	N_ACCTYPE_SKEY
V_DEFAULT_VALUE	Default Value	This is the placeholder where user provides the default data for the element	-
V_DATA_TYPE	Data Type	This indicates the data type of the element.	-

Example of Target Mapping

The following table shows an example of Target Entity Mapping Metadata data fetching: Here an example of Account and Customer have been taken.

Table 16. Target Entity Mapping Metadata Data Fetch

V_BUSINESS_ENTITY	V_BUSINESS_SUB_ENTITY	V_BUSINESS_SUB_KEY
Account	Account	AccountIdentifier
Customer	Customer	CustomerIdentifier

CHAPTER 3 Template Builder

This chapter provides an overview on the Template Builder feature of CRR framework.

This chapter covers the following topics:

- Introduction
- Managing CRR Framework Configuration
- Adding a Template

Introduction

The Regulatory Bodies of each country focus primarily on safeguarding the financial institutions and consumers from abuse and to provide transparency in the country's financial system. These regulatory bodies are also responsible for enhancing that country's security and deterring and detecting criminal activity in the financial system. As part of this goal, these regulatory bodies require the financial institutions to provide data regarding suspicious activities that lead to fraud and money laundering in a financial institution. This data is delivered to the regulatory bodies through regulatory reports. These reports, depending on the regulatory geographic region, can be delivered in a paper format or in an electronic format.

Suspicious Transaction Reports (STRs) or Suspicious Activity Reports (SARs) are the types of reports that are submitted to the regulator indicating the suspicious activity. These formats vary depending on the regulator to which it is submitted.

Managing CRR Framework Configuration

UI Builder allows user to create template specific User interactive screens. This takes configurations from the user and create tabs as per the configurations selected. This provides the user list of entities and attributes where they can select the required details.This also provides us the way to link all the other module documents for this template. Navigate to the CRR Framework administration tab, the CRR Framework Template Configurations Search and List page is displayed.

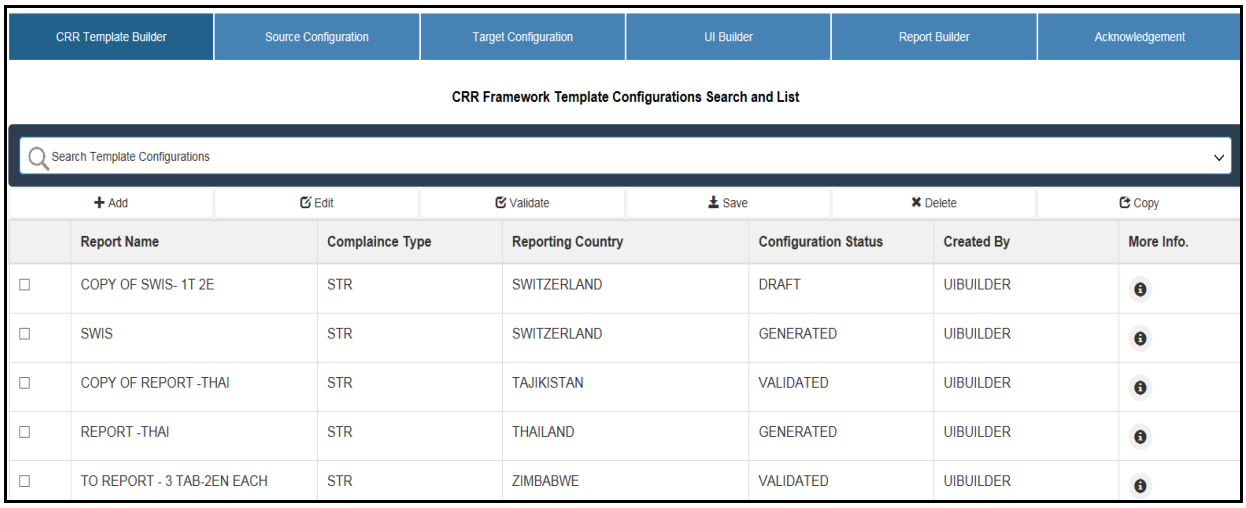


Figure 1. CRR Framework Administration Tab

The following are the actions performed in CRR Framework Template Configurations Search and List page:

- **Add**: Add a template configuration
- **Edit**: Edit a template configuration
- **Copy**: Copy the template configuration
- **Validate**: Validate the template configuration
- **Save:** Save the template configuration

Adding a Template

To add a template, follow these steps:

1. Navigate to the CRR Framework administration page.
2. Click **Add** in the *CRR Template Builder* tab.
3. Update the value in column `V_COUNTRY_NAME` in `DIM_COUNTRY` for the country for which STR is developed.
4. Update column `V_ENTITY_STATUS_CODE` to 'A' in `FCC_CRR_UIB_ENTITY`

Following are the steps performed to add a template:

- Step 1: Report Information
- Step 2: Set up Template workflows
- Step 3: UI Builder - Create Tabs
- Step 4: UI Builder - Create Entities
- Step 5: UI Builder - Select Attributes
- Step 6: Configure UI Behavior and Validation
- Step 7: Configure - Source, Target, E-file Reports and Acknowledgment Parser
- Step 8: Further Steps

Step 1: Report Information

The Report Information section is displayed as follows:

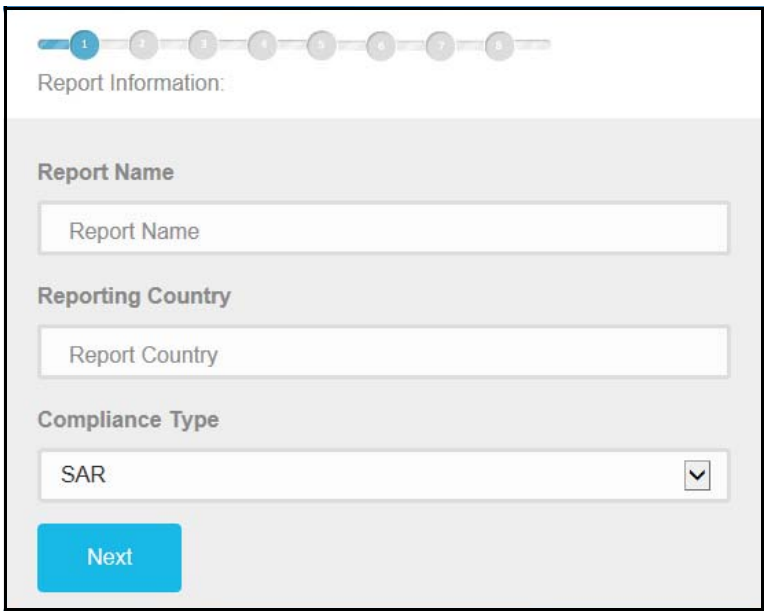


Figure 2. Report Information

5. Enter the following information:

Table 1. Report Information

Fields	Description
Report Name	Enter the name for the report.
Reporting Country	Enter the Reporting Country for the which the report is built.
Compliance Type	Select the Compliance type from the drop-down list.

6. Click **Next**.
7. Configure the Template Workflows as shown in the figure:

Step 2: Set up Template workflows

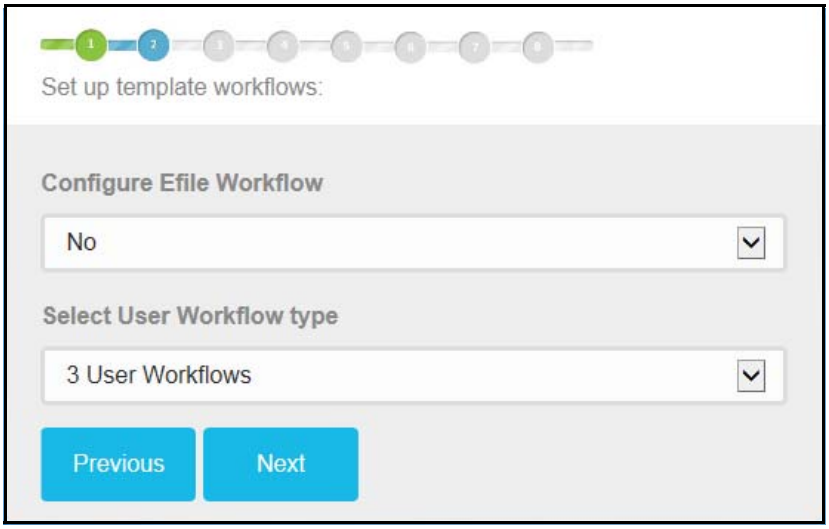


Figure 3. Template workflow

1. Enter the following information:

Table 2. Template Workflow

Fields	Description
Configure E-file Workflow	Select Yes if you want to configure the Efile workflow.
Select User Workflow type	Select the type of workflow type from the drop-down list.

2. Click **Next**.
3. Configure the different tabs for the Reporting page of the Report as shown in the following figure:

Step 3: UI Builder - Create Tabs

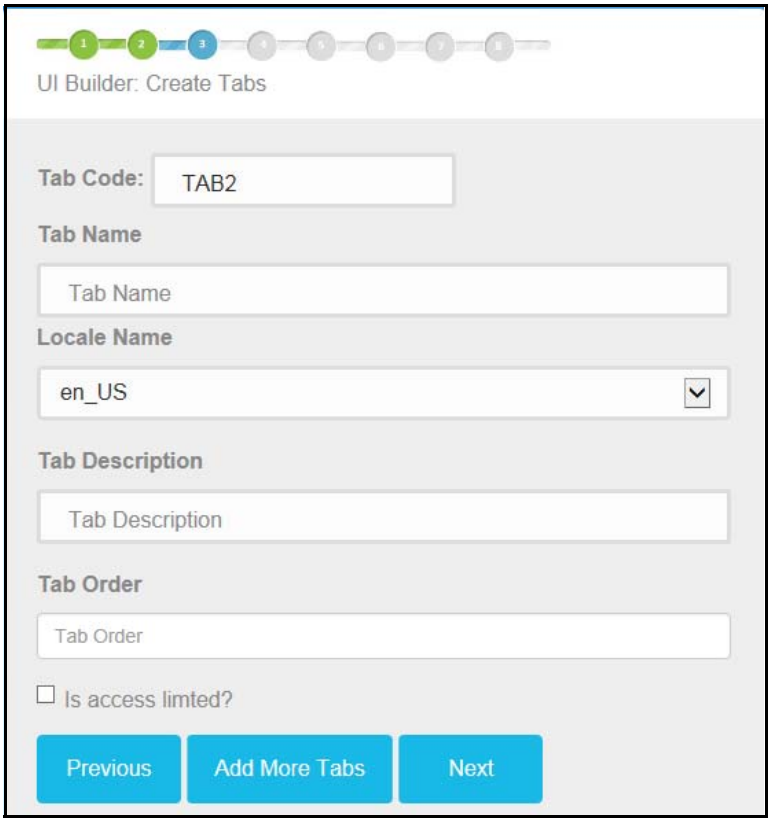


Figure 4. Configure Tabs

1. Enter the following information:

Table 3. Configure Tabs

Fields	Description
Tab Code	Enter the tab code for the tab.
Tab Name	Enter the name for the tab.
Locale Name	Enter the locale name for the tab.
Tab Description	Enter the description of the tab.
Tab Order	Enter the order for the tab to be displayed.

2. Select Yes if access is to be limited.
3. Click **Add More Tabs** to add more tabs. Follow the above steps to add a tab.
4. Click **Next**.
5. Configure the Entities for the report as follows:

Step 4: UI Builder - Create Entities

These entities are pre-defined and user selects the entity from the options provided.

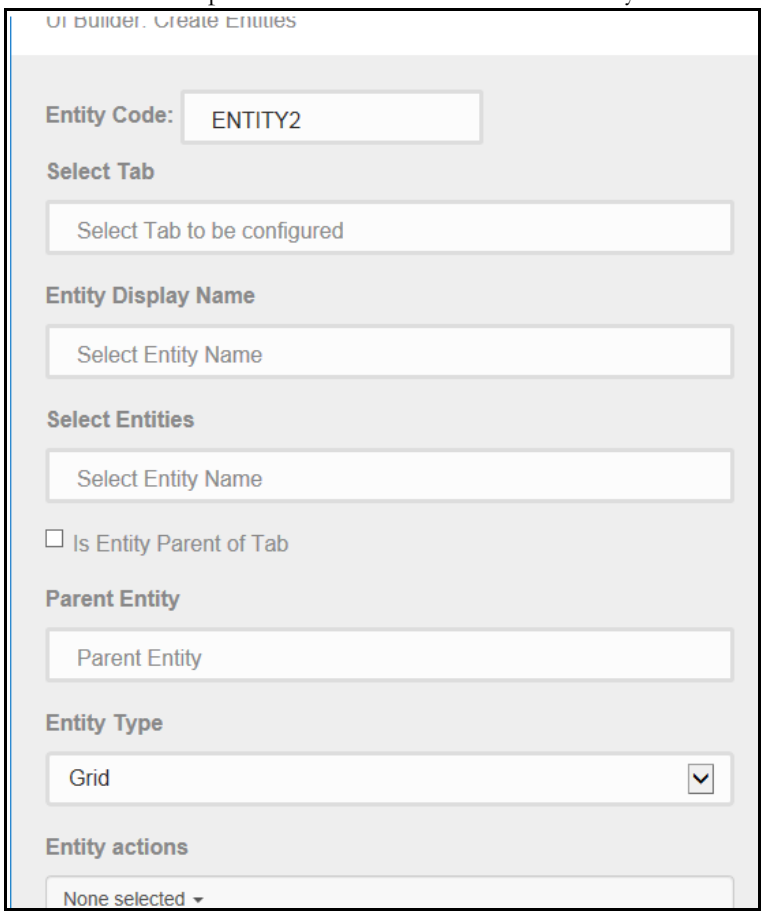


Figure 5. Creating Entities

1. Enter the following information:

Table 4. Creating Entities

Fields	Description
Entity Code	Enter the entity code for the entity.
Select Tab	Select the tab for the entity.
Entity Display Name	Enter the display name for the entity.
Is Entity Parent of Tab	Select if the entity is parent of the tab.
Parent Entity	Enter the Parent Entity.
Entity Type	Select the type of Entity from the drop-down list.
Entity Action	Select the type of Entity from drop-down list.

2. Click **Add More Entities** to add more Entities. Follow the above steps to add an entity.
3. Click **Next**.
4. Select the Attributes for the Entity as follows.

Step 5: UI Builder - Select Attributes

Once Entity is selected available attributes is listed down with all the available attributes for that entity. User then selects required attributes from available attributes and move it to selected attributes.

Then user clicks on blue icon to add the rows for attribute that needs updates. When user clicks on blue icon they can change the display name and Control type of attribute:

- Display Name: Enter the Name of the attribute
- Control Type: Select the type of control to be used for this attribute.

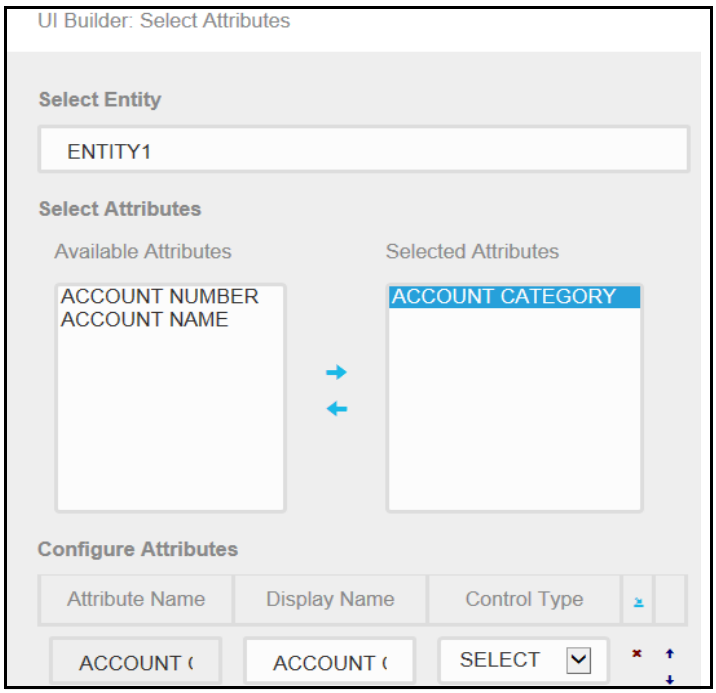


Figure 6. Select Attributes

1. Enter the following information:

Table 5. Selecting Attributes

Fields	Description
Select Entity	Select the Entity Name from the dropdown list.

2. Move the Attributes from the left list to the right depending on the ones you want.
3. Configure each attribute by selecting the type of display and select from the dropdown list.
4. Click **Add More Attributes** to add more Attributes. Follow the above steps to add an entity.
5. Click **Next**.
6. Configure UI behavior and validations for the report as shown below.

Step 6: Configure UI Behavior and Validation

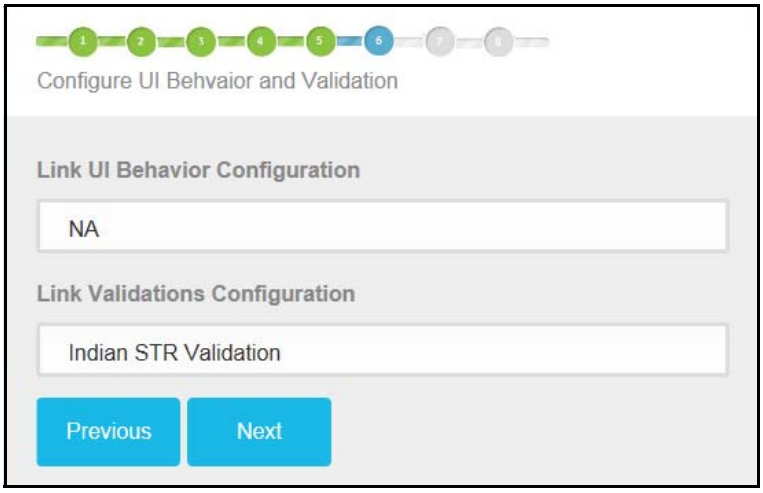


Figure 7. Configure UI behavior and Validation

1. Enter the following information:

Table 6. Selecting Attributes

Fields	Description
Link UI Behavior Configuration	Select the kind of configuration for the report.
Link Validations Configuration	Select the kind of Validations configuration to be linked to the report.

2. Click **Next**.
3. Configure Source, target, e-file reports and acknowledgment for the report.

Step 7: Configure - Source, Target, E-file Reports and Acknowledgment Parser

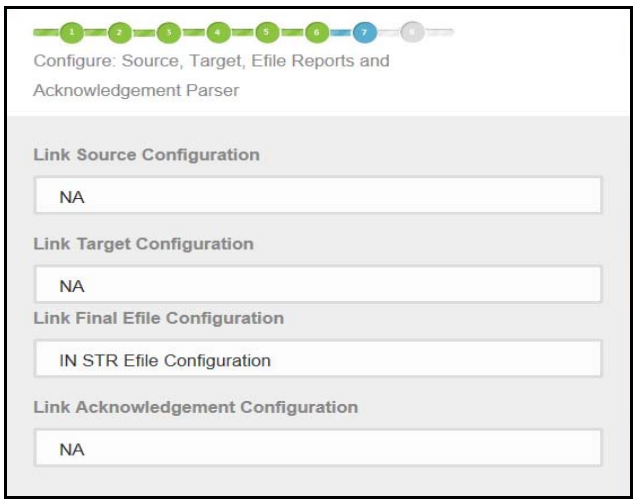


Figure 8. Configure Source, Target, Efile Reports, Acknowledgment Parser

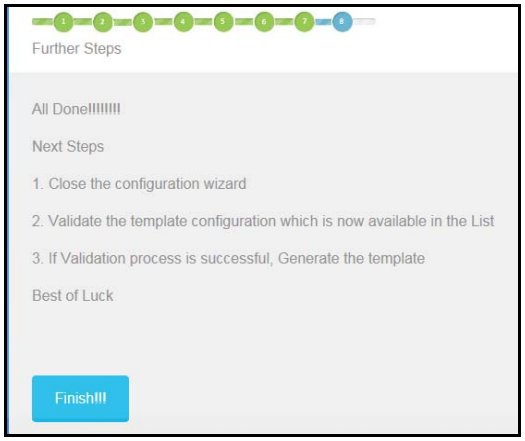
1. Enter the following information:

Table 7. Selecting Attributes

Fields	Description
Link Source Configuration	Select the kind of Source configuration for the report from the drop-down list.
Link Target Configuration	Select the kind of Target configuration to be linked to the report from the drop-down list.
Link Final Efile Configuration	Select the kind of Final Efile configuration to be linked to the report from the drop-down list.
Link Acknowledgment Configuration	Select the kind of Acknowledgment configuration to be linked to the report from the drop-down list.

2. Click **Next**.
3. Click **Finish**.

Step 8: Further Steps



The **All Done** message is displayed at the end with the further steps.

Navigate to Report configuration grid and click **Validate**. Once it is validated click **Save**, the report template is generated.

CHAPTER 4 Validation

This chapter provides an overview on the Validation feature of CRR framework.

This chapter covers the following topics:

- Introduction
- Managing Validation UI

Introduction

After updating the report details, they must be validated. The Report Details page allows the authorized users to validate the report details and then submit the report for approval. When the user submits the report for approval, it is validated if the mandatory fields within the report are displayed. But this process requires maximum effort. Compliance Regulatory Reporting Framework provides a framework which enables the users to to automate the process of validation.To identify the mandatory information, the application uses data mapping sheet.

After updating the report details, the user clicks **Validate** to check if the data is correct and can be submitted to the regulator. Once the user clicks **Validate,** the mandatory fields without the details are highlighted.The fields are highlighted until the mandatory fields are filled with the required information.

Managing Validation UI

To validate if the data is correct and can be submitted to the regulator, follow these steps:

1. Login to the OFSAA application.
2. Select **Financial Services Regulatory Reporting** from the *Select Application* menu.
3. Select the STR as per your requirement.
4. Mouse over the Administration menu and click **Configuration Upload.**

   The following screen is displayed:

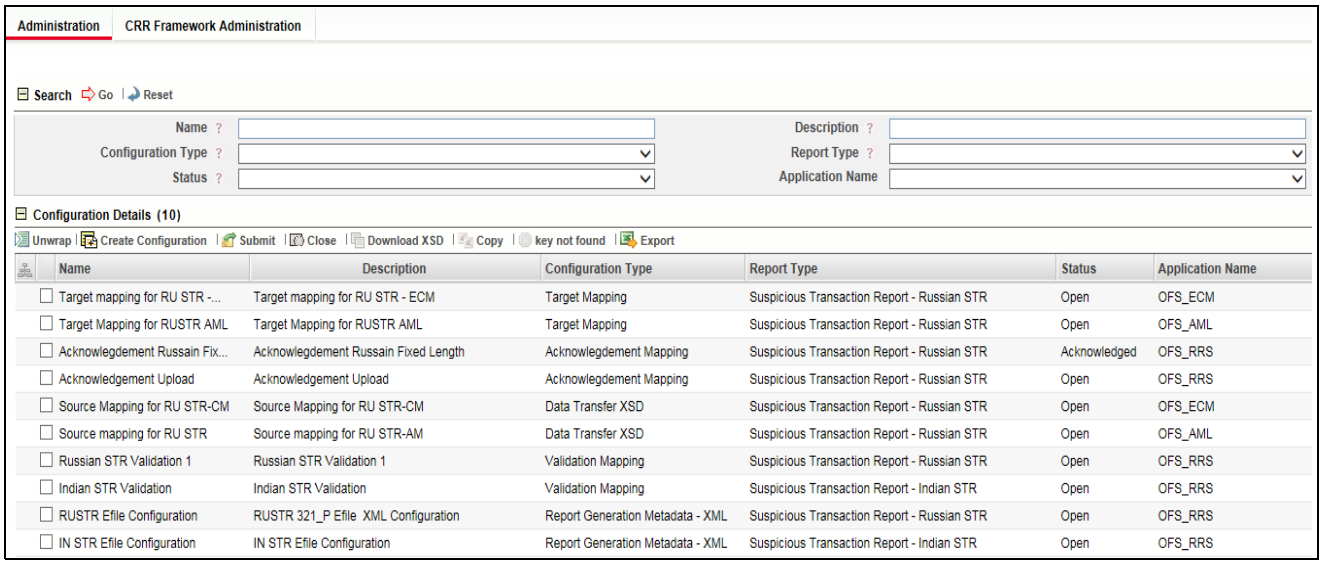


Figure 9. Configuration Upload Screen

The following are the actions performed under Validation:

Configuration Upload for Validation

Following are the steps in configuration upload for Validation:

1. To generate configuration upload for Validation, navigate to Configuration Details page.
2. Click **Create Configuration.** The Configuration upload window is open.

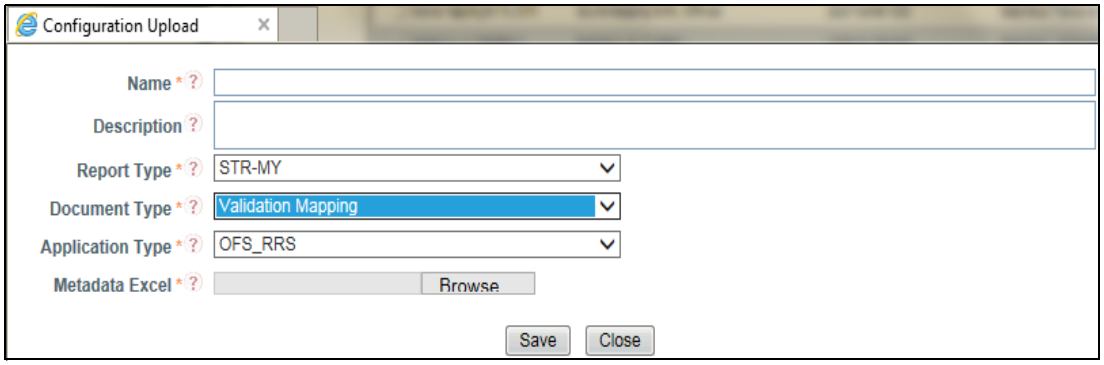


Figure 10. Create Configuration Window

3. Enter the details in the following fields:

Table 8. Create Configuration

Fields	Description
Name	Enter the name for the report.
Description	Enter the description for the report.
Report Type	Select the report type from the drop-down list.
Document Type	Select the document type metadata from the drop-down list.
Metadata Excel	Click **Browse** to attach the excel sheet saved in your local system.

4. Click **Save** to save the Validation.
5. The created Validation is saved in the Configuration Details grid list.
6. Mark the check box for the created Validation, the details are shown below in the same window.

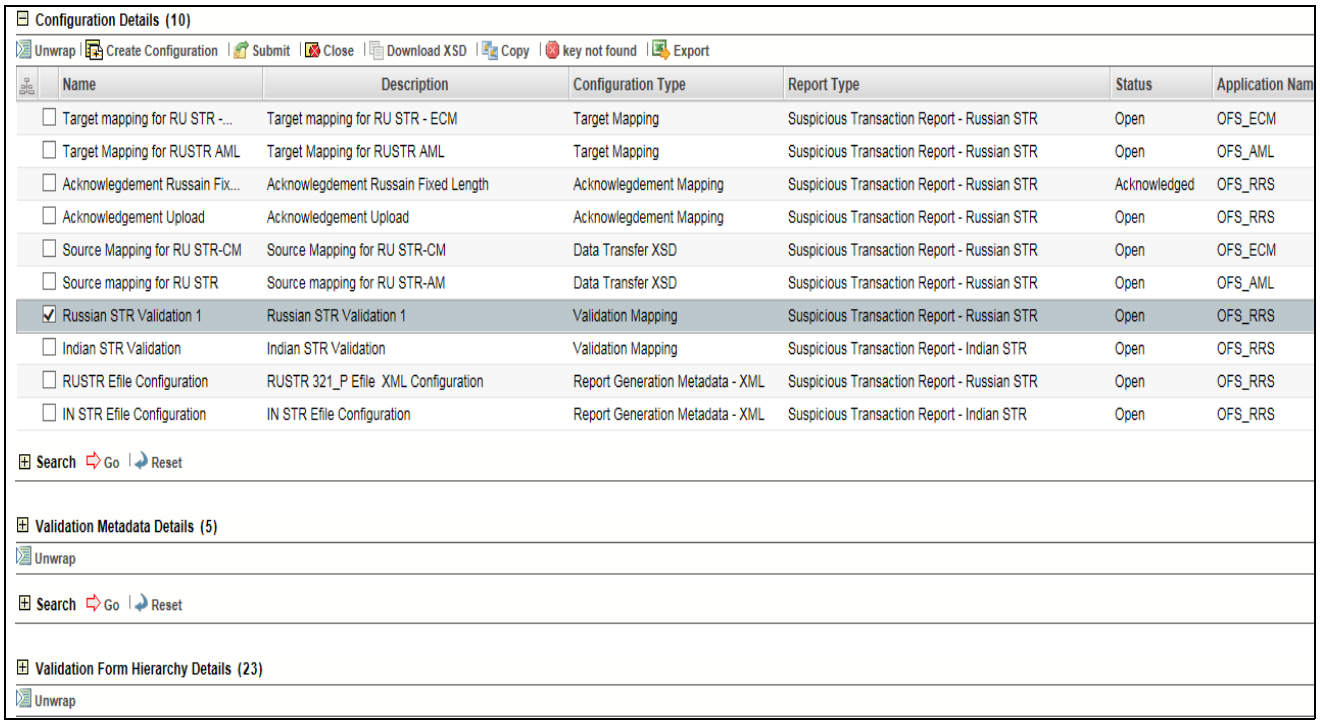


Figure 11. Validation

The following are the grids in Validation section:

- Validation Metadata Details
- Validation Form Hierarchy Details

Validation Metadata Details

Validation Metadata Details grid gives the details about various parameters available in

There are two subsection in Validation Metadata Details:

- Search
- Validation Metadata Details

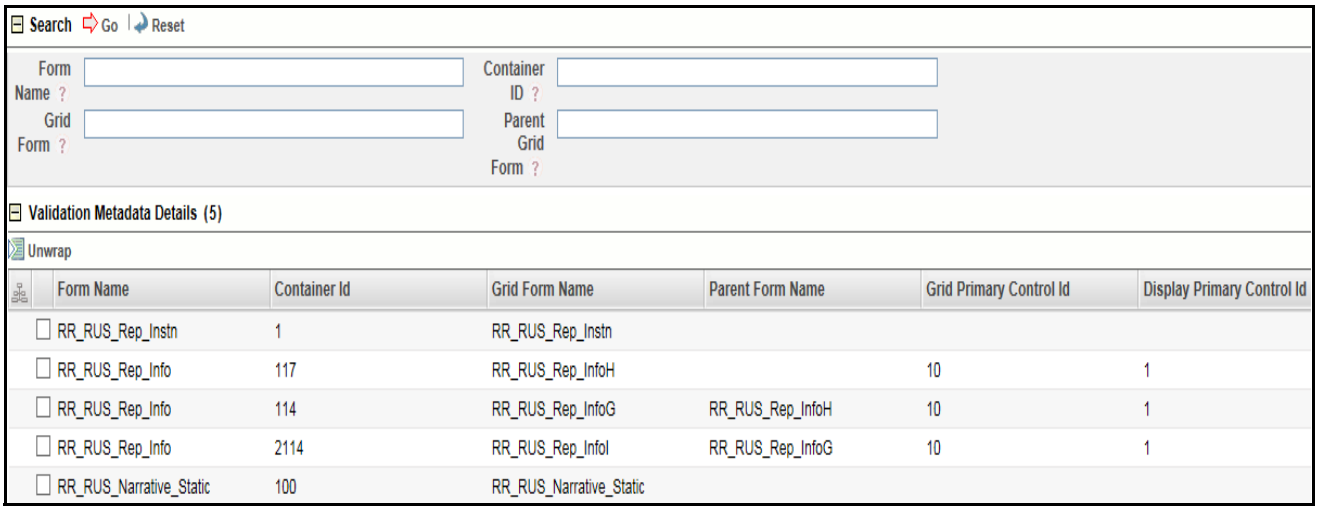


Figure 12. Target Entity Mapping Metadata

Search

This grid enables the user to search for the parameters available in the validation sheets. Following are the fields displayed:

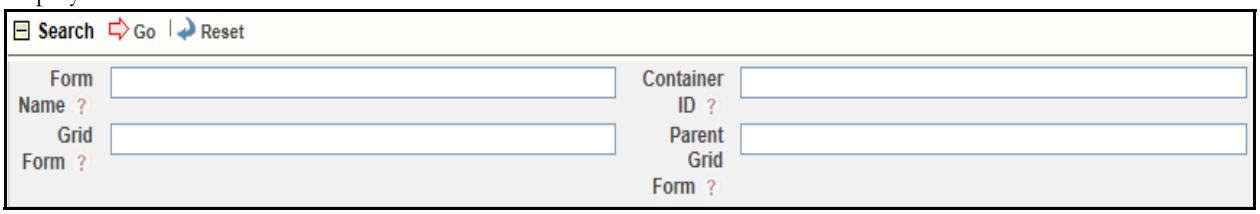


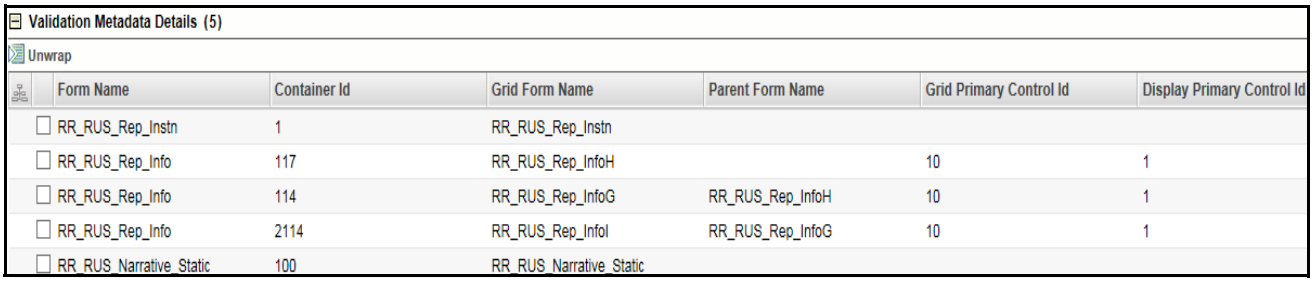
Figure 13. Search Grid

Table 9. Search Grid Details

Fields	Description
Form Name	Enter the required form name to search
Container ID	Enter the required container id to search
Grid Form	Enter the required grid form to search
Parent Grid Form	Enter the required parent grid form to search

Validation Metadata Details

This grid displays the various parameters available in the Validation Metadata Details sheet. This validation sheet is composed of the following parameters:


Validation Metadata Details (5)

Unwrap

Form Name	Container Id	Grid Form Name	Parent Form Name	Grid Primary Control Id	Display Primary Control Id
RR_RUS_Rep_Instn	1	RR_RUS_Rep_Instn			
RR_RUS_Rep_Info	117	RR_RUS_Rep_InfoH		10	1
RR_RUS_Rep_Info	114	RR_RUS_Rep_InfoG	RR_RUS_Rep_InfoH	10	1
RR_RUS_Rep_Info	2114	RR_RUS_Rep_InfoI	RR_RUS_Rep_InfoG	10	1
RR_RUS_Narrative_Static	100	RR_RUS_Narrative_Static			

Figure 14. Validation Metadata Details

Table 10. Validation Metadata Details

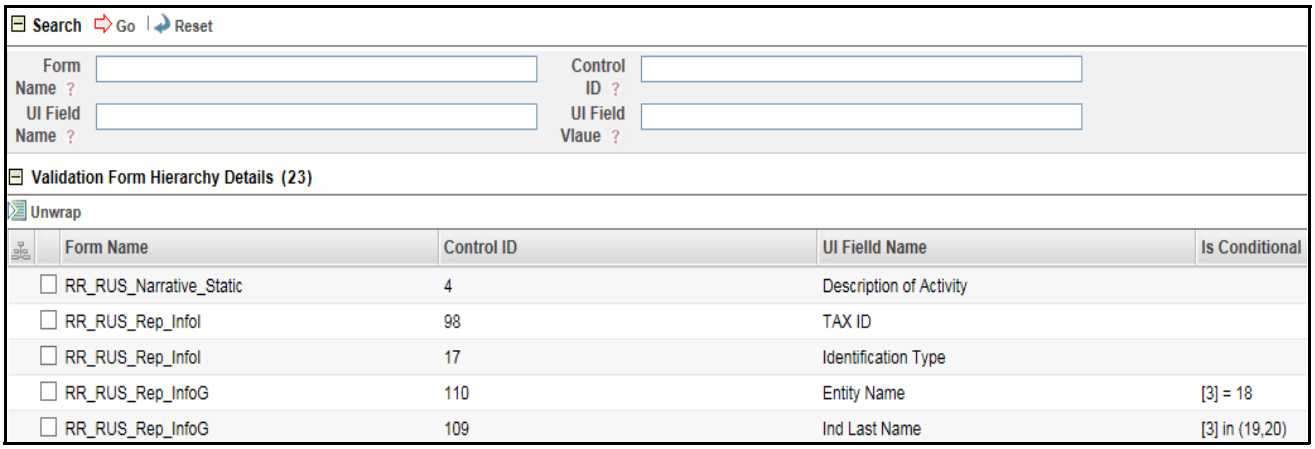
Fields	Description
Form Name	This column displays the Form Name of the validation sheet.
Container ID	This column displays the Container ID of the validation sheet.
Grid Form Name	This column displays the Grid Form Name of the validation sheet.
Parent Form Name	This column displays the Parent Form Name of the validation sheet.
Grid Primary Control ID	This column displays the Grid Primary Control ID of the validation sheet.
Display Primary Control ID	This column displays the Display Primary Control ID of the validation sheet.

Validation Form Hierarchy Details

Validation Form Hierarchy Details grid gives the details about parameters avalaible in Validation Form Hierarchy Details.

There are two subsection in Validation Form Hierarchy Details:

- Search
- Validation Form Hierarchy Details


Search Go | Reset

Form Name ? | Control ID ?

UI Field Name ? | UI Field Vlaue ?

Validation Form Hierarchy Details (23)

Unwrap

Form Name	Control ID	UI Fielld Name	Is Conditional
RR_RUS_Narrative_Static	4	Description of Activity	
RR_RUS_Rep_InfoI	98	TAX ID	
RR_RUS_Rep_InfoI	17	Identification Type	
RR_RUS_Rep_InfoG	110	Entity Name	[3] = 18
RR_RUS_Rep_InfoG	109	Ind Last Name	[3] in (19,20)

Figure 15. Validation Form Hierarchy Details

Search

This grid enables the user to search for the parameters available in this validation sheets. Following are the fields displayed:

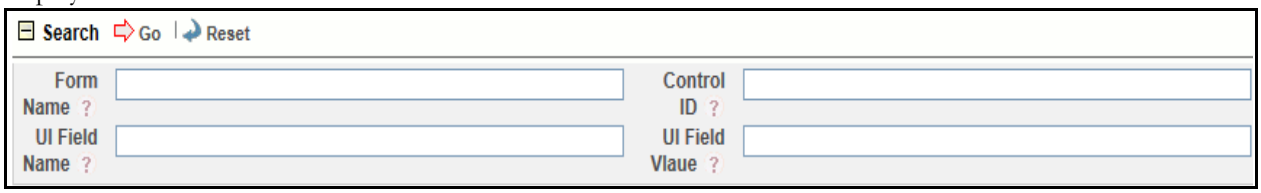


Figure 16. Search Grid

Table 11. Search Grid Details

Fields	Description
Form Name	Enter the required form name to search
Control ID	Enter the required control id to search
UI Field Name	Enter the required UI field name to search
UI Field Value	Enter the required UI field Value to search

Validation Form Hierarchy Details

This grid displays the various parameters available in the Validation Form Hierarchy Details sheet. This validation sheet is composed of the following parameters:

Validation Form Hierarchy Details (23)

Unwrap

Form Name	Control ID	UI Fielld Name	Is Conditional
RR_RUS_Narrative_Static	4	Description of Activity	
RR_RUS_Rep_InfoI	98	TAX ID	
RR_RUS_Rep_InfoI	17	Identification Type	
RR_RUS_Rep_InfoG	110	Entity Name	[3] = 18
RR_RUS_Rep_InfoG	109	Ind Last Name	[3] in (19,20)

Figure 17. Validation Form Hierarchy Details

Table 12. Validation Form Hierarchy Details

Fields	Description
Form Name	This column displays the Form Name of the validation sheet.
Control ID	This column displays the Control ID of the validation sheet.
UI Field Name	This column displays the UI Field Name of the validation sheet.
Is Conditional	This column displays the Is Conditional of the validation sheet.

CHAPTER 5 Final Report Generation XML

This chapter provides an overview on the Report Generation Metadata XML feature of CRR framework.

This chapter covers the following topics:

- Introduction
- Managing Final Report Generation XML

Introduction

This module will be used when the CRR Application will generate the final STR Report in XML format. This module allows the user to map each table column of CRR Data model to the tags/elements of the final STR XML thus this will automate the process of generating the final XML STR Report.

Managing Final Report Generation XML

To validate if the data is correct and can be submitted to the regulator, follow these steps:

1. Login to the OFSAA application.
2. Select **Financial Services Regulatory Reporting** from the *Select Application* menu.
3. Select the STR as per your requirement.
4. Mouse over the Administration menu and click **Configuration Upload.**

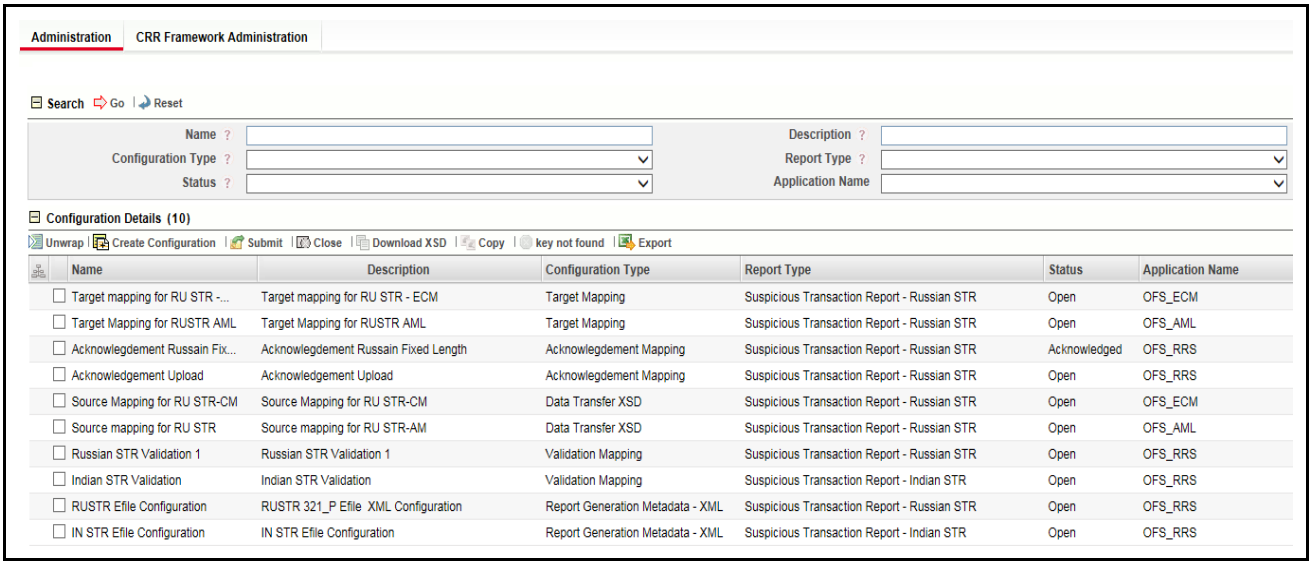


Figure 18. Configuration Details Page

Following are the actions which can be performed in Final Report Generation XML:

- Configuration Upload for Final Format XSD
- Mappings of XSD

Configuration Upload for Final Format XSD

The User provides the XSD that they received from regulators, which contains details about the format in which data will get received by them This document is uploaded using Upload Configuration feature when user takes Create Configuration action. User needs to select Report Generation Metadata-XML module for this.

Following are the steps in configuration upload for Report Generation Metadata-XML:

1. To generate configuration upload for Report Generation Metadata-XML, navigate to Configuration Details page.
2. Click **Create Configuration.** The Configuration upload window is open.

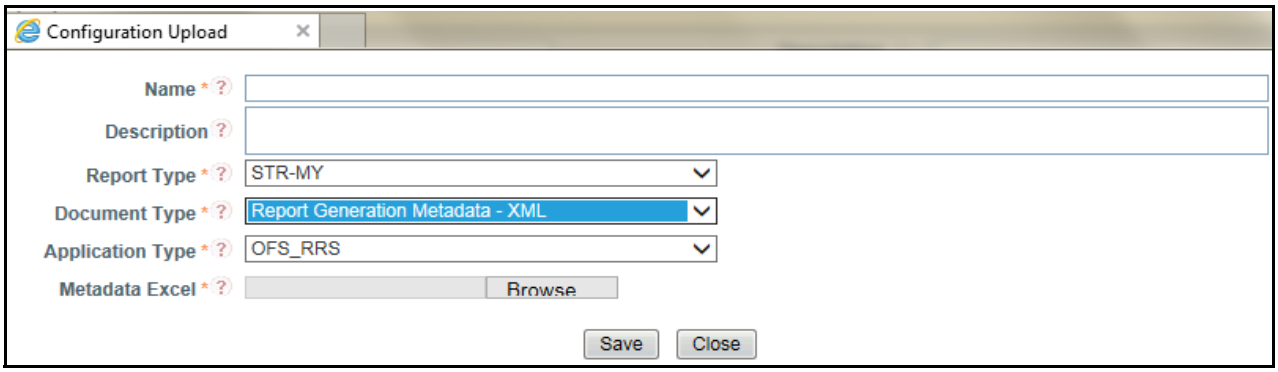


Figure 19. Configuration Upload Wndow

3. Enter the details given in the below table:

Table 13. Configuration Upload Window Details

Fields	Description
Name	Enter the name for the report.
Description	Enter the description for the report.
Report Type	Select the report type from the drop-down list.
Document Type	Select the document type from the drop-down list. Select Report Generation Metadata - XML.
Application Type	Select the application type from the drop-down list.
Metadata Excel	Click **Browse** to attach the excel sheet saved in your local system.

4. Click **Save** to save the Report Generation Metadata-XML.
5. The created Report Generation Metadata-XML is saved in the Configuration Details grid list.
6. Mark the checkbox for the created Report Generation Metadata-XML, the details are shown below in the same window.

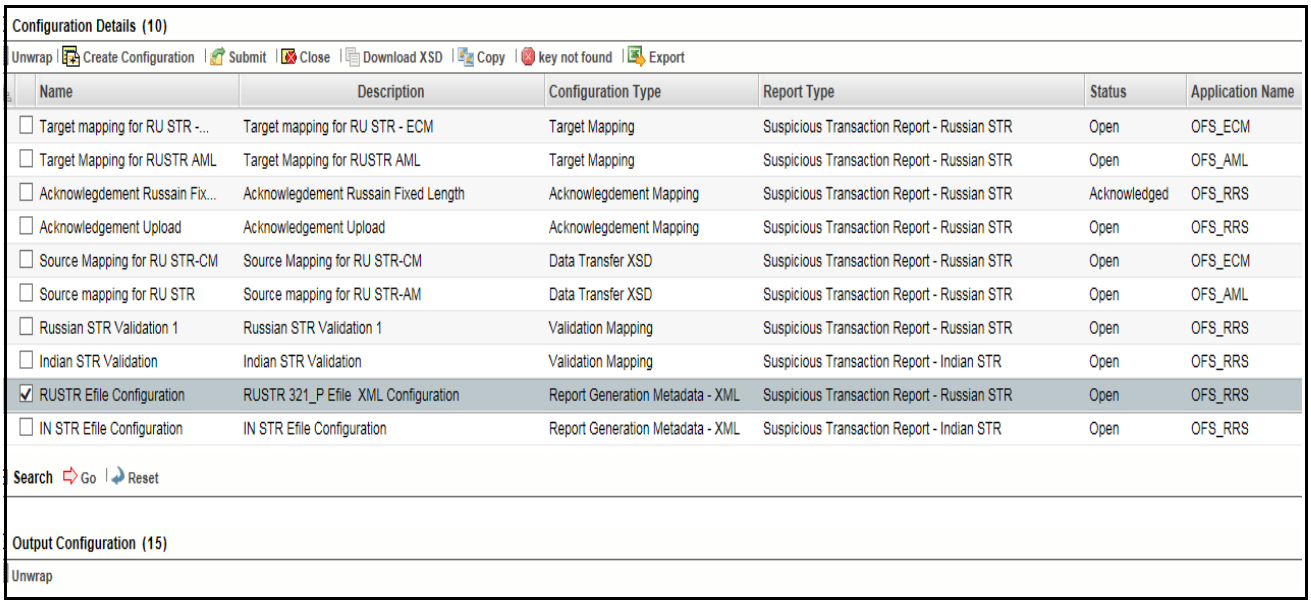


Figure 20. Data Transfer XSD details

Below are the grids in Report Generation Metadata-XML:

- Search
- Output Configuration Grid
- Managing Output Configuration

Search

This field enables the user to search the Report Generation Metadata-XML based on few entities. There are two fields given in the search grid. This can be used to search the Report Generation Metadata-XML based on ID and Entity Name.

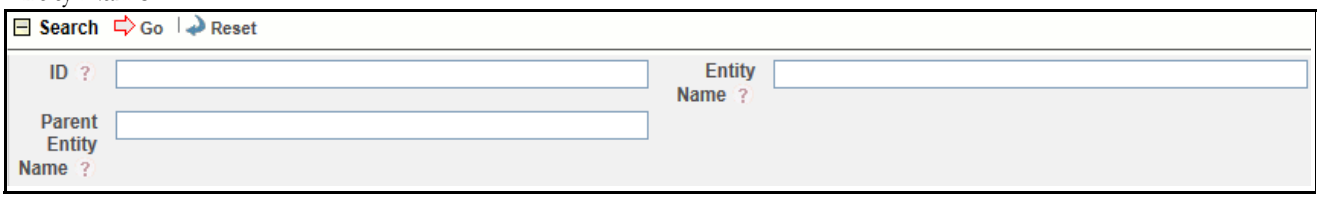


Figure 21. Search Grid

Table 14. Search Grid Details

Fields	Description
ID	Enter the ID number of the Output Configuration
Entity Name	Enter the Entity name of the Output Configuration
Parent Entity Name	Enter the Parent Entity name of the Output Configuration

Output Configuration

This section displays the list of types fetched from the metadata excel uploaded while creating the Report Generation Metadata-XML.

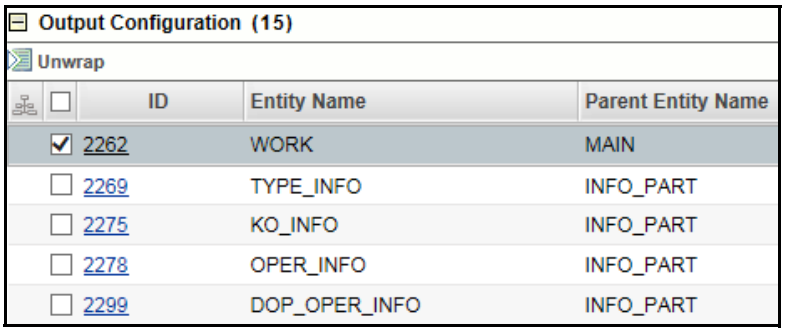


Figure 22. Output Configuration

Table 15. Output Configuration

Fields	Description
ID	This column displays the ID number of the Output Configuration
Entity Name	This column displays the Entity name of the Output Configuration
Parent Entity Name	This column displays the Parent Entity name of the Output Configuration

Managing Output Configuration

The Output Configuration grid shows all the types fetched from the metadata excel uploaded while creating the Report Generation Metadata-XML. Each Element of Output Configuration indicates the table and each attribute in Output Configuration indicates the column of that table. So we receive the data from tables and columns of Business Data from source system. To view or edit the details follow the below given steps:

1. Click the **ID number** given in the ID column. **Output Entity Attributes** window is open.
2. Following are the grids shown in the window:
   - Entity Dataset Grid
   - Search Grid
   - Complex Attribute Grid

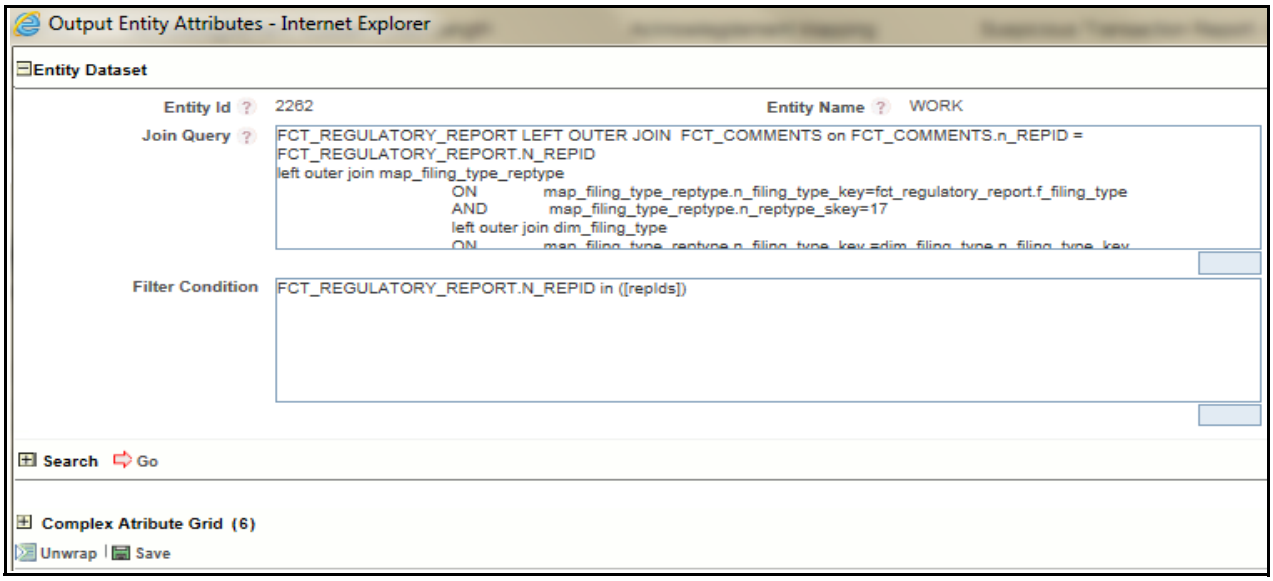


Figure 23. Complex Type Definition Window

Entity Dataset Grid

This grid has four fields Entity Id, Entity Name, Join Query and Filter Condition. The details are displayed here, the Entity Id and Entity name cannot be edited. Query can be added as required.

Search Grid

This field enables the user to search the complex type based on few entities. This grid has three fields Attribute Name, Table Name and Column Name. These fields can be used to search the attributes from the various attributes available in the complex attribute grid.

Complex Attribute Grid

This grid displays the number of attributes available in this Id. The table name and the column name can be edited in the list.

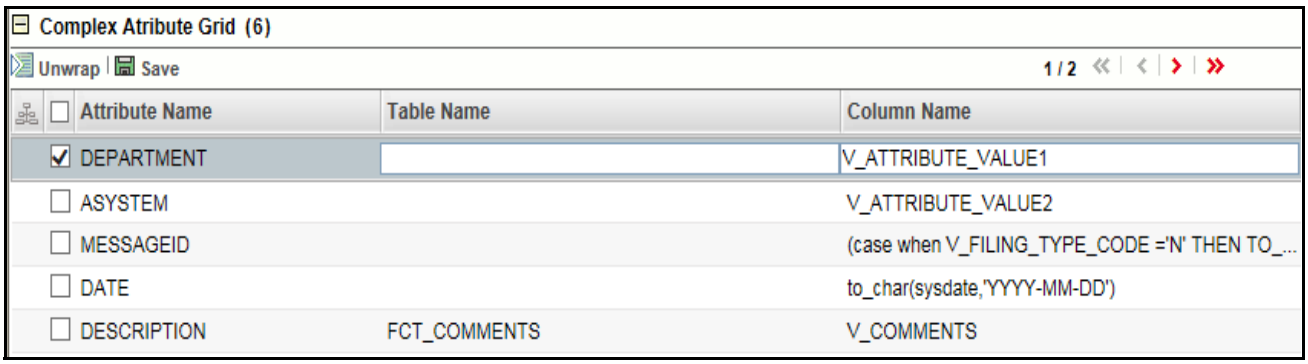


Figure 24. Complex Attribute Grid

Table 16. Complex Attribute Grid Details

Fields	Description
Attribute Name	This column displays the attribute name.
Table Name	This column displays the Table name. Once the attribute is selected this field editable.
Column Name	This column displays the Column name. Once the attribute is selected this field editable.

3. Click **Save** to save the changes done in the Complex Type Definition window.

Mappings of XSD

Once this document is uploaded, it creates a row in configuration lists. Following are the steps:

1. When user clicks on that row they will be able to check the elements and attributes that a module was able to recognize automatically.
2. Now click on ID of an element and this opens a popup.
3. In the popup use have to provide the query to get data in this element.
4. User also have to provide any specific condition if it exists in filter text box.
5. In the popup user also be able to see the underlying attributes for selected element.
6. Use have to provide Table Column Mapping for each attribute for this element.

User have to take care of the following while providing the mapping:

- The names of attribute matches with the name of column for that table. This column should match with the field name on the UI where user for CRR application provides the data.
- We need to make sure that Data Type and Data Length to match for each attribute and table column mappings.

Once you have provided the mappings, click **Save** and **Submit** this module. This automatically performs the data ingestion process from the source system to generic XSD.

CHAPTER 6 Acknowledgment

This chapter provides an overview on the Acknowledgment feature of CRR framework.

This chapter covers the following topics:

- Introduction
- Workflow
- Prerequisites
- Excel Upload for mapping for Acknowledgment UI
- Uploading the excel sheet
- Managing Acknowledgment UI

Introduction

The Regulatory Bodies of each country focus primarily on safeguarding the financial institutions and consumers from abuse and to provide transparency in the country's financial system. These regulatory bodies are also responsible for enhancing that country's security and deterring and detecting criminal activity in the financial system. As part of this goal, these regulatory bodies require the financial institutions to provide data regarding suspicious activities that lead to fraud and money laundering in a financial institution. This data is delivered to the regulatory bodies through regulatory reports. These reports, depending on the regulatory geographic region, can be delivered in a paper format or in an electronic format.

Suspicious Transaction Reports (STRs) or Suspicious Activity Reports (SARs) are the types of reports that are submitted to the regulator indicating the suspicious activity. These formats vary depending on the regulator to which it is submitted.

Once the SARs are submitted to the regulator, the regulator provides the feedback in the form of acknowledgment. This acknowledgment can be in a form of Unique Identifier or sometimes it contains information like which report is rejected, why it is rejected, and so on.

Acknowledgment varies from report to report. Acknowledgment can be done on a Batch Level or on a Report Level.

Acknowledgment can be received in the following ways:

- Batch
- Report
- Report and Batch

Workflow

This section explains the workflow of regulatory reports for users mapped to the role of Analyst and Supervisor. The following figure depicts the workflow involved in Compliance Regulatory Reporting application:

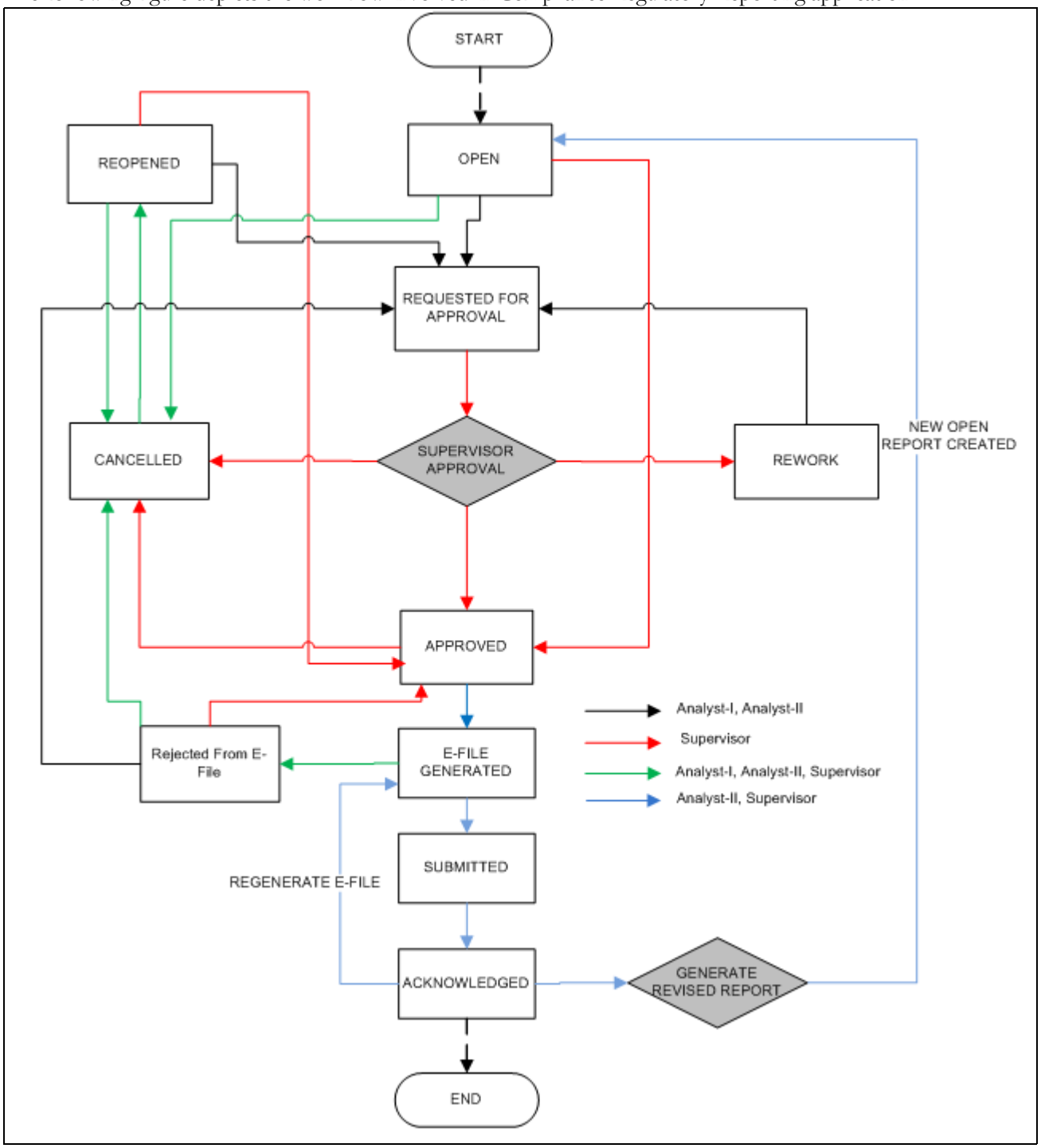


Figure 25. Compliance Regulatory Reporting workflow for Analyst and Supervisor

An STR is created in the Compliance Regulatory Reporting application as a result of taking *Generate STR* action from within OFSFCCM or manually creating a report from OFSCRR. When an STR is created in the Compliance Regulatory Reporting application through OFSFCCM, the report details are auto-populated with information from the alert or case which triggered the action to generate the STR. Users mapped to the role of Analyst can update the report in *Open* status and request the report details for approval. During the edit and review process, the STR is available to view as a draft report.

The Supervisor can approve, rework, and cancel filing of reports once the Analyst user has requested for approval.

Supervisors can also edit the report details and approve reports directly, if needed.

If the STR is approved by the Supervisor, the Compliance Regulatory Reporting application generates the STR in final PDF format after all the necessary validations. The STR is then manually submitted to the Regulator.

Once the SARs are submitted to the regulator, the regulator provides the feedback in the form of acknowledgment. This acknowledgment can be in a form of Unique Identifier or sometimes it contains information like which report is rejected, why it is rejected, and so on.

An Analyst or Supervisor can generate revised reports when the report is in *Submitted* status. A new report is created with *Open* status. There is no change to the STR status. The new report retains all the details of the original report. and records the originating report as the Prior Report Number.

The Supervisor can cancel the reports when the report is in *Open, Reopened, Requested for Approval*, and *Approved* status. The STR status changes to *Canceled*.

If required, the Supervisor can send the reports for rework when the report is in *Request for Approval* status. The analyst must then rework and re-submit the report for approval. This process continues until the report is approved or canceled.

The application allows authorized users to reopen canceled reports. The STR status then changes to *Reopened*.

An STR has a life cycle which begins with the *Open* status and ends when it is in *Submitted* status.

If the report is already opened by another user, the following message is displayed: *This report is currently locked by another user. You will not be able to edit/take action on the report. Do you wish to open report details in read only mode?*

Prerequisites

To access the *Configuration Upload* menu, the user must be mapped to the function `MENUACCESS`.

Excel Upload for mapping for Acknowledgment UI

The user uploads the excel sheet that contains details about the column - field mapping for Acknowledgment form, as received from the regulator.

The excel sheet gets the details as follows:

- Mapping from the acknowledgment sheet to table column
- Mapping from table column to field displayed in UI.

Following is an example of a sample acknowledgment form as received from the regulator:

```
A Your batch has been processed. / Votre lot a ete traite.
A2 Report type / Genre de declarations : LCTR
A3 Batch type / Categorie de lot : A
A4 Operational mode / Mode operationnel : P
A5 Date batch processed by FINTRAC / Date de traitement par CANAFE : 20050723
A6 Time batch processed by FINTRAC / Heure de traitement par CANAFE : 041733
B Batch ID / Identification du lot
B2 Date / Date : 20050722
B3 Time / Heure : 234527
B4 Batch sequence ID / Numero seq. d'identification du lot : 00003
C Batch processing messages / Messages portant sur le traitement du lot
C2 Batch accepted / Lot accepte
C3 Sub-headers accepted / Sous-en-têtes de lot acceptes : 00001
C4 Reports rejected / Declarations rejetees : 1
C4 Duplicate reports ignored / Declarations en double mises de côte : 0
C4 Reports deleted / Declarations supprimees : 0
C4 New reports accepted / Nouvelles declarations acceptees : 3
C4 Total reports processed / Nombre de declarations traitees : 4
D Messages on accepted reports, reports in error and reports rejected
D Messages portant sur les decl. acceptees, avec des erreurs et rejetees
D A = Sub-header / Sous-en-tête
D B = Report sequence / Sequence de la declaration
D C = RE report reference number / Numero de reference de declaration de l'ED
D D = Transaction / Operation
D E = Disposition / Repartition
D F = Field / Champ
D G = Message code / Code de message
D * = Reject indicator / Indicateur de rejet
D A B C D E F G
D2 : 1 : 1 : 111111234567 : 1 : : D.6 : 329 *
D2 : 1 : 2 : 111111234568 : 1 : : D.14 : 9
D2 : 1 : 3 : 111111234569 : 1 : : B1.7A : 329
E Accepted sub-header and report processing totals
E Nombre de sous-en-têtes acceptes et de declarations traitees avec succès
E Sub-header Report count
E Sous-en-tête Nombre de declarations

F End of report / Fin du rapport
```

Figure 26. Sample Acknowledgment

The user reads the acknowledgment file and extracts the required details for a batch or report. The user then uploads the excel through the *Excel Upload* feature. The system will automatically develop a UI which will then read the uploaded acknowledgment file and then reflect the data in UI.

Following is the example of the excel sheet to be uploaded:

Table 17. Sample Excel Sheet

Physical Table Name"	Physical Column Name	Field Name	Tag Name	Field Type	Delimiter	Is Batch	Section Identifier	Field Position
FCT_ACK_MASTER	V_MASTCOL1	Batch sequence ID	B4 Batch sequence ID	Normal	:	Y	1A	1:2
FCT_ACK_MASTER	V_MASTCOL2	Report type	A2 Report type	Normal	:	Y	1A	3:5

Table 17. Sample Excel Sheet

Physical Table Name"	Physical Column Name	Field Name	Tag Name	Field Type	Delimiter	Is Batch	Section Identifier	Field Position
FCT_ACK_MASTER	V_MASTCOL3	Batch type	A3 Batch type	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL4	Date batch processed by FINTRAC	A5 Date batch processed by FINTRAC	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL5	Time batch processed by FINTRAC	A6 Time batch processed by FINTRAC	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL6	Batch Status	C2 Batch accepted	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL7	Sub-headers accepted	C3 Sub-headers accepted	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL8	Reports rejected	C4 Reports rejected	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL9	Duplicate reports ignored	C4 Duplicate reports ignored	Normal	:	Y		
FCT_ACK_MASTER	V_MASTCOL10	Reports deleted	C4 Reports deleted	Normal	:	Y		
FCT_ACK_DETAILS	V_DTLSCOL1	Report Number	IF C2="Batch is Accepted" THEN C6{3}: IF C2="Batch is Rejected" THEN D2{3}	Condition	:	N		

Table 17. Sample Excel Sheet

Physical Table Name"	Physical Column Name	Field Name	Tag Name	Field Type	Delimiter	Is Batch	Section Identifier	Field Position
FCT_ACK_DETAILS	V_DTLSCOL2	Sub-header sequence number	IF C2="Batch is Accepted" THEN C6A: IF C2="Batch is Rejected" THEN D2{1}	Condition	:	N		
FCT_ACK_DETAILS	V_DTLSCOL3	Report sequence number	IF C2="Batch is Accepted" THEN C6B: IF C2="Batch is Rejected" THEN D2{2}	Condition	:	N		
FCT_ACK_DETAILS	V_DTLSCOL4	Transaction Sequence Number	IF C2="Batch is Accepted" THEN C6D: IF C2="Batch is Rejected" THEN D2{4}	Condition	:	N		
FCT_ACK_DETAILS	V_DTLSCOL5	Disposition Sequence Number	IF C2="Batch is Accepted" THEN C6E: IF C2="Batch is Rejected" THEN D2{5}	Condition	:	N		

Table 17. Sample Excel Sheet

Physical Table Name"	Physical Column Name	Field Name	Tag Name	Field Type	Delimiter	Is Batch	Section Identifier	Field Position
FCT_ACK_DETAILS	V_DTLSCOL6	Field Number	IF C2="Batch is Accepted" THEN C6F: IF C2="Batch is Rejected" THEN D2{6}	Condition	:	N		
FCT_ACK_DETAILS	V_DTLSCOL7	Error Message	Reject code	Error	:	N		

The columns of *Table 3 Sample Excel Sheet* are explained below:

Table 18. Columns of the Sample Sheet

Fields	Description	Example
Physical Table Name	The Physical table where the acknowledgment processed data is stored.For data at e-file level select FCT_ACK_MASTER and for data at report level select table FCT_ACK_DETAILS.	
Physical Column Name	The Physical column to store the processed data in the corresponding selected physical table.The column with the proper data type should be selected. The tables contain ten placeholder columns for each data type.	
Field Name	The UI field name corresponding to a particular tag in the acknowledgment file.	
Tag Name	The Identifier of a data field in the acknowledgment file.It may also contain conditions in the IF…THEN format.The constants should be delimited by double quotes eg: "Batch is Accepted" .The column position within a tag needs to be placed in curly braces eg:D2{3}.Applicable only for delimiter based acknowledgment files.	C4 Reports rejected / Déclarations rejetées OR IF C2="Batch is Accepted" THEN C6{3}: IF C2="Batch is Rejected" THEN D2{3}
Field Type	The field type can be Normal, Conditional or Error.The Normal/Conditional type needs to be filled based on the value of "Tag Name".The Error signifies that the corresponding tag holds the processing error code/Success code for the efile.The error codes needs to be configured in the error table.	
Delimiter	This column holds the delimiter character for the acknowledgment file	Delimiter eg ":"

Fields	Description	Example
Is Batch	Y - indicates the info is at e-file level and N - indicates info at individual report level	Y/N
Section Identifier	Applicable for fixed length acknowledgment file.It is the identifier for a particular section	
Field Position	It Identifies the field position in the above section/line.The format is start-end	eg : 1-4

Uploading the excel sheet

To upload the excel sheet, follow these steps:

1. Login to the OFSAA application.
2. Select **Financial Services Regulatory Reporting** from the *Select Application* menu.
3. Select the STR as per your requirement.
4. Mouse over the Administration menu and click **Configuration Upload.**

   The following screen is displayed:

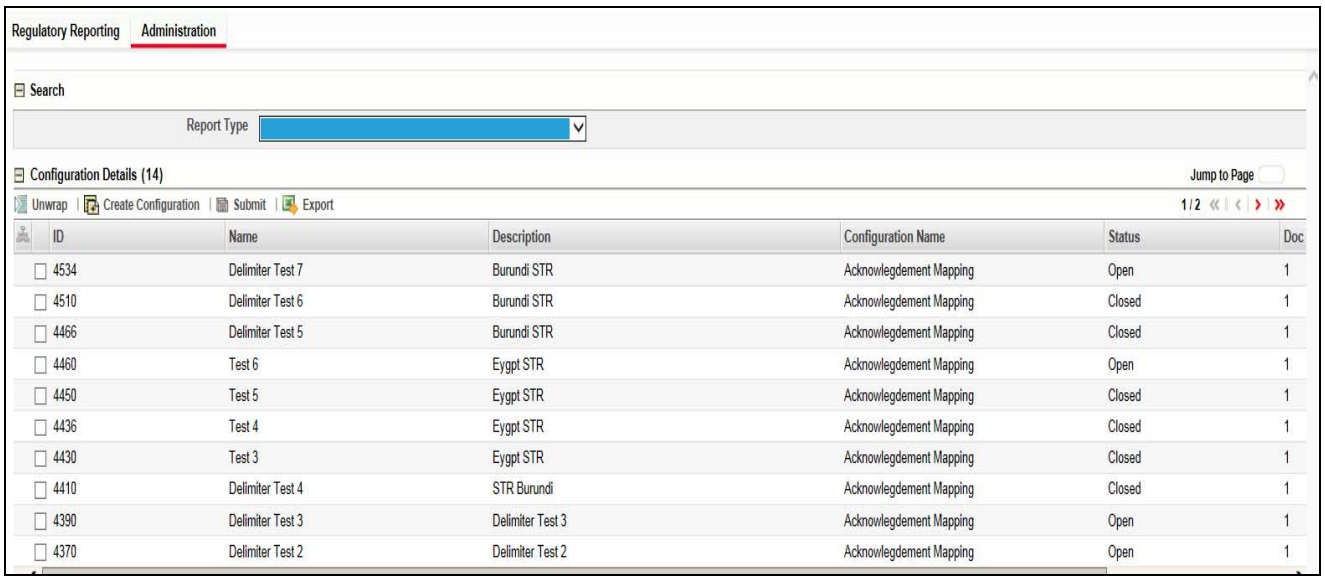


Figure 27. Configuration Upload Screen

5. Click **Create Configuration**.The following window is displayed:

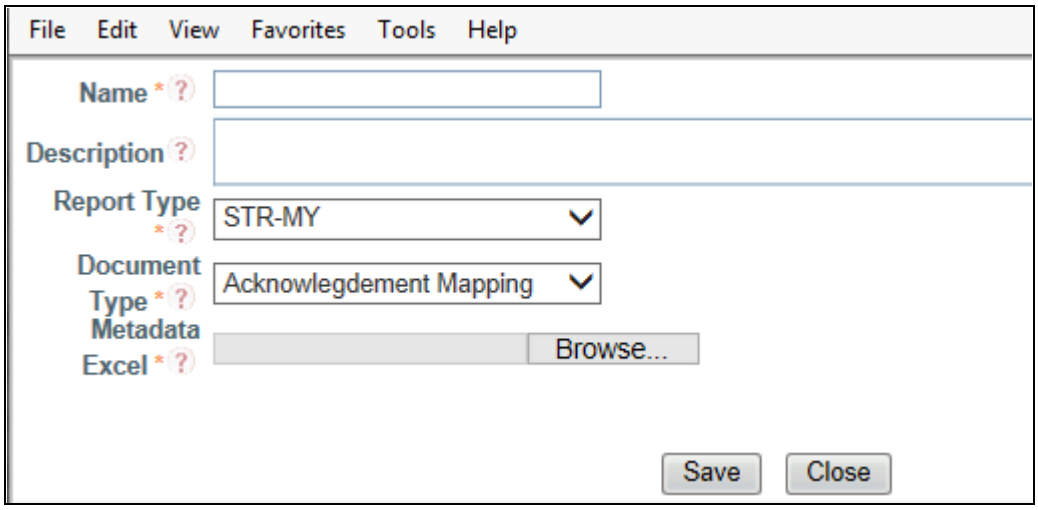


Figure 28. Create Configuration Window

6. Enter the details in the following fields:

Table 19. Create Configuration

Fields	Description
Name	Enter the name for the report.
Description	Enter the description for the report.
Report Type	Select the report type from the drop-down list.
Document Type Metadata	Select the document type metadata from the drop-down list.
Excel	Click **Browse** to attach the excel sheet saved in your local system.

7. Click **Save**. The status of the report is in *Draft* status.
8. Click **Submit**. The status of the report then changes to *Open*.

Run the JSP file. The acknowledgment details are available in the acknowledgment UI.

Managing Acknowledgment UI

After the acknowledgment form is uploaded, the system automatically generates an acknowledgment UI. To access the acknowledgment UI, mouse over the *Administration* menu and click **Ack Form Test**.

This UI reads the data from the acknowledgment file. The user can search for the acknowledgment for the batch or report and view the details.

The user can also take the following actions:

- Change the status for the report and Batch
- Mark the report or batch as corrected
- Make the each rejected file as rejected

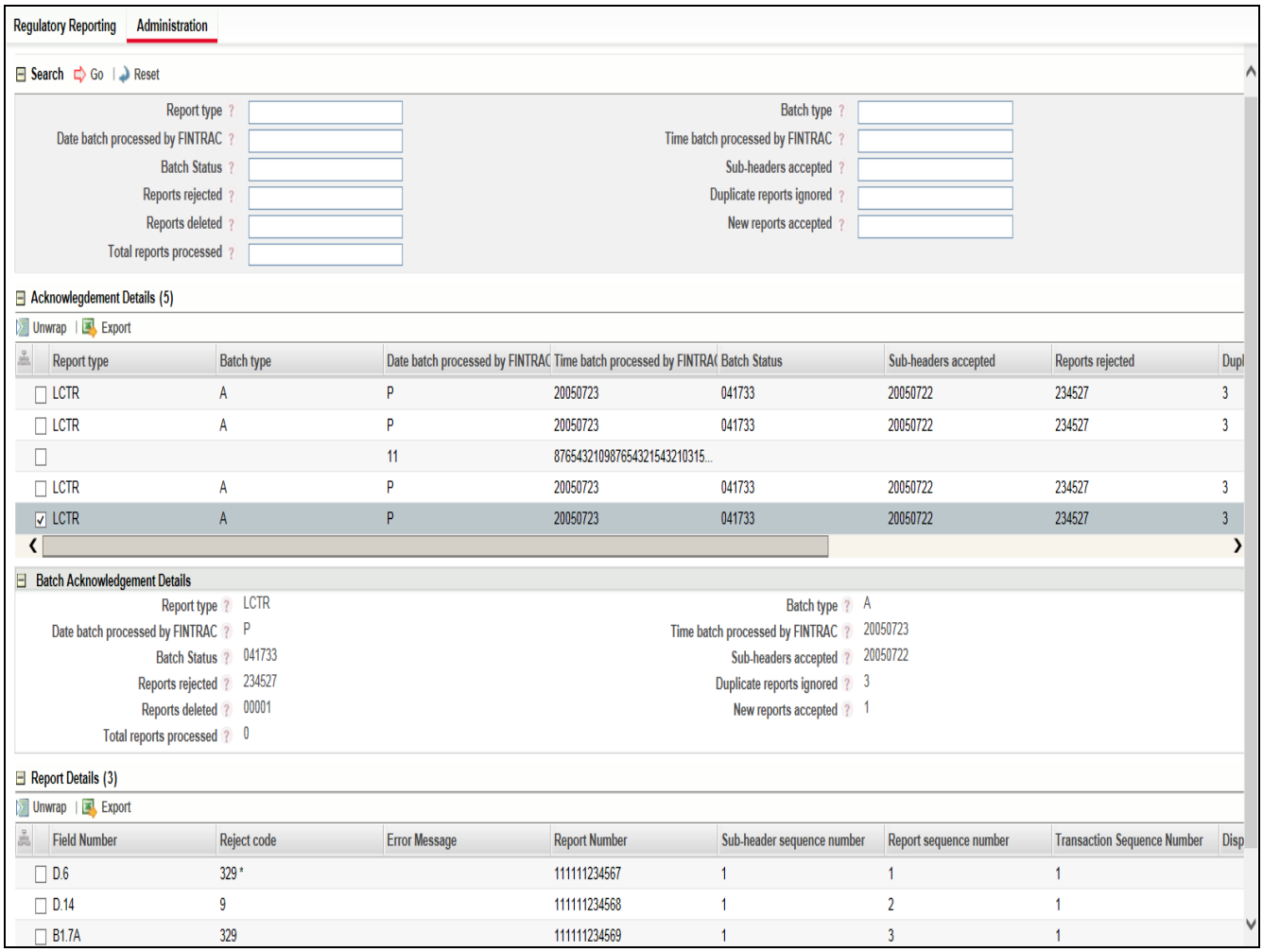


Figure 29. Acknowledgment screen

The layout of the acknowledgment screen varies as per the data provided by the user.

Following are the components of the acknowledgment screen:

- Search
- Acknowledgment Details
- Batch Acknowledgment Details
- Report Details

Search

Search acknowledgment section allows user to search the acknowledgment based on field populated. This section contain all the fields required to search for a report or batch.

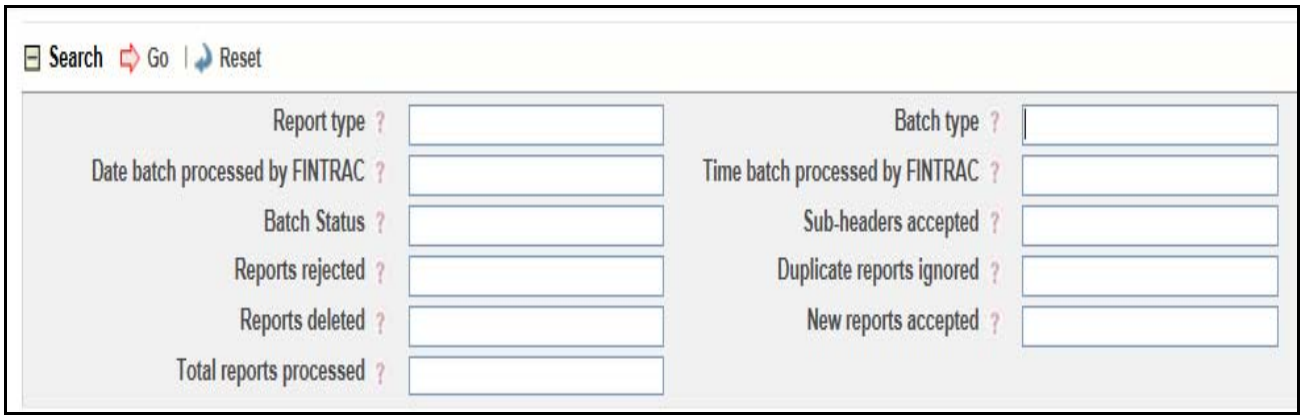


Figure 30. Search

Note: These fields are configurable. It will vary as per the data provided by the user in the acknowledgment configuration sheet.

Acknowledgment Details

Acknowledgment details grid shown in the below image displays the details for the report or batch selected.

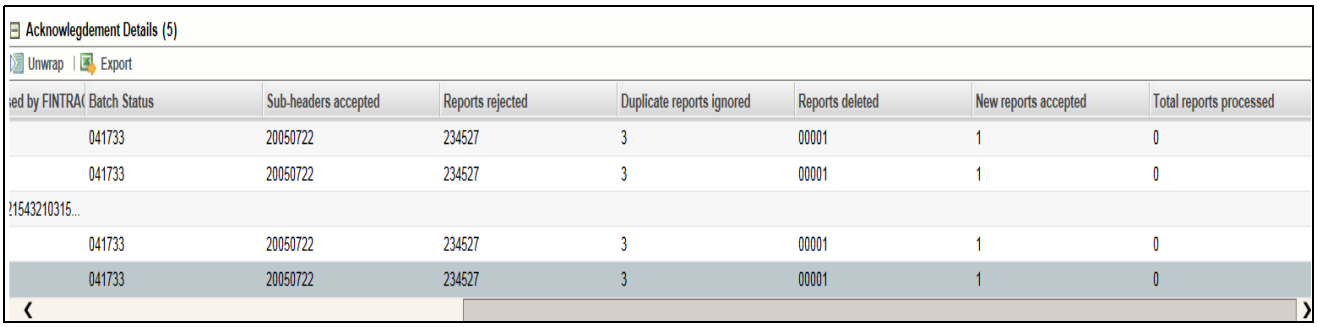


Figure 31. Acknowledgment Details

Note: These fields are configurable. It will vary as per the data provided by the user in the acknowledgment configuration sheet.

Batch Acknowledgment Details

Batch Acknowledgment Details grid shown in the below image displays the details of selected batch. It displays all the columns of the batch.

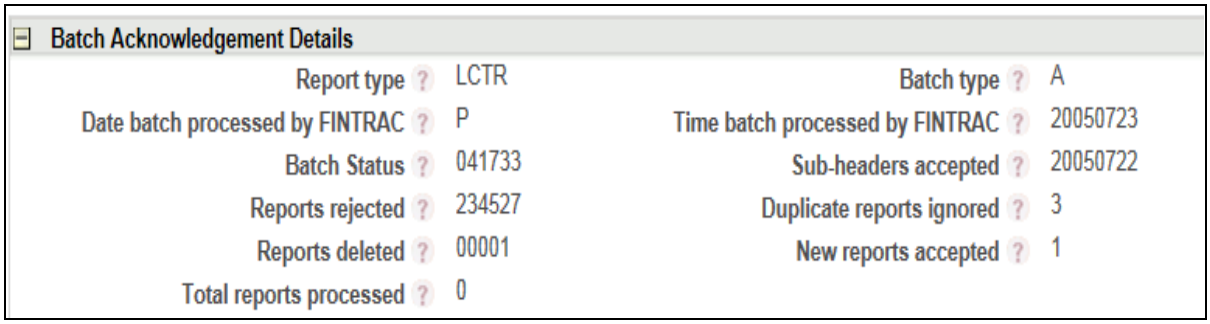


Figure 32. Batch Acknowledgment Details

Note: These fields are configurable. It will vary as per the data provided by the user in the acknowledgment configuration sheet.

Report Details

Report Details grid shown in the image bellow displays all the details for each report.

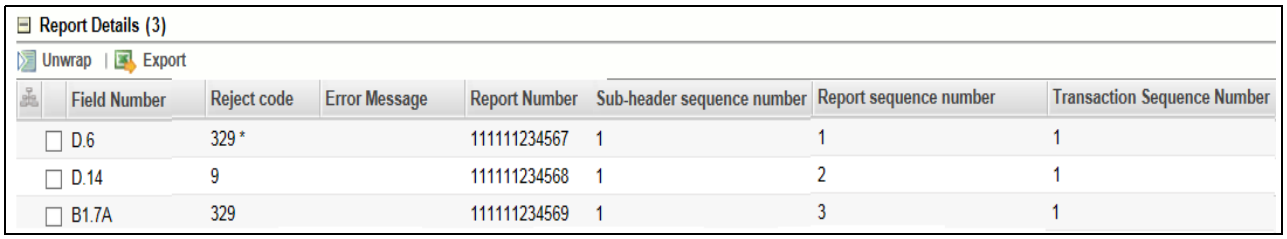


Figure 33. Report Details

Note: These fields are configurable. It will vary as per the data provided by the user in the acknowledgment configuration sheet.