

Oracle Financial Services Enterprise Case Management

Administration and Configuration Guide

Release 8.0.8.1.0

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Oracle Financial Services Enterprise Case Management

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Document Control

NOTE

With the release of Behavior Detection Framework (BDF) 8.0.5, dispositioning alert through Alert Management is no longer supported. Alert Management is only applicable to Trading Compliance and Broker Compliance. For AML and Fraud alerts, the Event Correlation module in Enterprise Case Management should be used to correlate events from the FCCM Behavior Detection engine or those ingested from external applications. Alert Management (AM) can be used as read-only for viewing historical alerts but it is not to be used for investigating alerts, taking action on them, editing them and/or promoting them to a case. The manual Promote to Case functionality is no longer supported. Customers are to use Enterprise Case Management (ECM) for reviewing and investigating alerts. With the BDF license, a restricted-use license of ECM is provided which replicates the functionality available in AM to the best that is currently available within ECM. Implementations should use event correlation to move Alerts from BDF into ECM and then have them correlation/promote to a case where all levels of investigation can occur. If this updated process is not clear to your implementation team it is advised that you contact Oracle Partner Network or Oracle Consulting to be trained.

Table 1: Revision History

| Date | Edition | Description |
|---------------|---|---|
| April 2021 | First Edition of ECM 8.0.8.1.0 | Account Restriction information is added in Chapter 14, General Configuration , provides instructions to configure general parameters for case management. Configuring Quantifind Batch Processing is added in Chapter 18, Additional Configuration . It allow applications to submit customer entities to Quantifind and get customer risk card |

1 About this Guide

This guide explains the concepts behind the Oracle Financial Services Enterprise Case Management (OFS ECM) application and provides comprehensive instructions for system administration, daily operations, and maintenance.

This section focuses on the following topics:

- [Who Should Use This Guide](#)
- [How this Guide is Organized](#)
- [Where to Find More Information](#)
- [Conventions Used in This Guide](#)

1.1 Who Should Use This Guide

This *Administration and Configuration Guide* is designed for use by the Administrators. This user configures, maintains, and adjusts the system. The Administrator is usually an employee of a specific Oracle customer, who maintains user accounts and roles, assigns cases to users, manages case designer, configures and executes batch, and so on.

1.2 How this Guide is Organized

This *Administration and Configuration Guide* includes the following chapters:

- [Chapter 2, About Oracle Financial Services Enterprise Case Management](#), provides a brief overview of the Oracle Financial Services Enterprise Case Management application architecture, and its components.
- [Chapter 3, Getting Started](#), provides the required day-to-day operations and maintenance of Enterprise Case Management application users, groups, and organizational units.
- [Chapter 4, Managing User Administration and Security Configuration](#) provides instructions to set up and configure the Security Management System (SMS) to support ECM application, user authentication, and authorization.
- [Chapter 5, Pre-batch Execution Configuration](#), provides the details of pre-batch configuration activities.
- [Chapter 6, Performing Batch Run](#), provides the process to start, execute, and end batch.
- [Chapter 7, Loading Data](#), provides the details to load the data from various sources to the ECM application.
- [Chapter 8, Configuring Correlation](#), provides the concept and configuration of correlation.
- [Chapter 9, Scoring](#), provides the concept behind scoring, methods, and types of scoring.
- [Chapter 10, Promoting to Case](#), provides the configuration of promote to case activity.
- [Chapter 11, Configuring Processing Modelling Framework \(PMF\)](#), provides the concept of PMF, pre-configuration activities, and configuring workflows.
- [Chapter 12, Managing Case Designer](#), provides step-by-step instruction to configure case class, case type, case attributes, case workflow, and case entities.
- [Chapter 14, General Configuration](#), provides instructions to configure general parameters for case management.

- [Chapter 15, Configuring Administration Tools](#), provides instructions to configure parameters specific to administration tools.
- [Chapter 16, Configuring Actions](#), provides procedures to configure the list of available actions.
- [Chapter 17, Configuring Web Application](#), provides customization features available in the Web Application UI. This chapter contains information to configure session time out.
- [List of Processes and Tasks](#) provides the details of batch processes and tasks.

1.3 Where to Find More Information

For more information about Oracle Financial Services Enterprise Case Management application, see the following documents in the [Oracle Help Center \(OHC\)](#):

- Oracle Financial Services Enterprise Case Management Application Release Notes or ReadMe
- Oracle Financial Services Enterprise Case Management Application User Guide
- Oracle Financial Services Enterprise Case Management Application Installation Guide
- Oracle Financial Services Data Model (FSDM) Guide

Additionally, you can find pertinent information in the OFSAAI documentation in the [Oracle Help Center \(OHC\)](#):

- Oracle Financial Services Analytical Applications Infrastructure User Guide
- Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration

1.4 Conventions Used in This Guide

This table lists the conventions used in this guide.

Table 2: Conventions Used in This Guide

| Convention | Description |
|------------|---|
| Italics | <ul style="list-style-type: none"> • Names of books, chapters, and sections as references • Emphasis |
| Bold | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 |
| <Variable> | <ul style="list-style-type: none"> • Substitute input value |

2 About Oracle Financial Services Enterprise Case Management

This chapter provides a brief overview of the Oracle Financial Services Enterprise Case Management (OFS ECM) application.

The following sections are covered in this chapter:

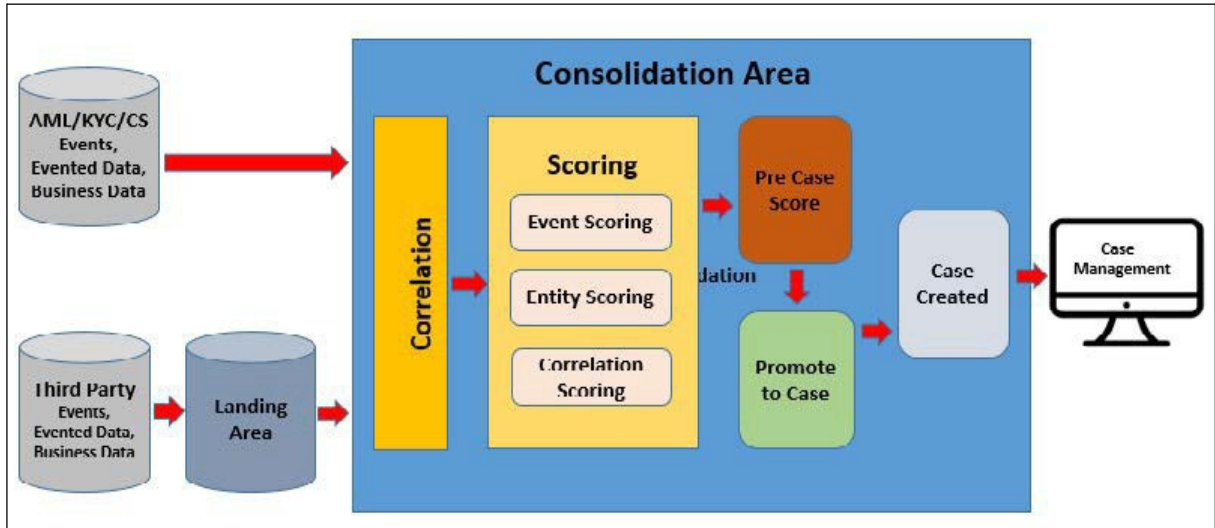
- [Introduction](#)
- [Administration and Configuration Activities](#)

2.1 Introduction

Enterprise Case Management (ECM) supports the investigation and resolution of Anti-Money Laundering (AML), Know Your Customer (KYC), Customer Screening (CS), Studio (STDO), and third-party events. A newly created case passes through various statuses as part of the investigation and reaches closure through resolution actions. Enterprise Case Management supports the modification of the case details and the associated business data.

Investigation workflows can vary based on the type of case being investigated. The case investigation and resolution are supported by various actions, which can be specific to the case type. Access to types of cases and actions are controlled based on the user role and access privileges. Cases are generated from various sources and cases are also manually created in the ECM.

ECM supports product default case types that drive the Investigation workflow. Case types are configurable and can be defined by firms to meet their business need. ECM allows designing workflows using the Processing Modelling Framework. [Figure 1](#) depicts the ECM workflow.



2.2 Administration and Configuration Activities

This section covers the following topics:

- [Loading Data](#)
- [Correlation](#)

- [Scoring](#)
- [Promoted to Case](#)
- [Processing Modelling Framework](#)
- [Case Designer](#)
- [Case Action Settings](#)

2.2.1 Loading Data

Data is loaded from the landing area to the consolidated area in the ECM using processors and they are called connectors. The connector processes are used to bring the data from sources such as Oracle Behavior Detection (OBD), Oracle Know Your Customer (OKYC), Oracle Customer Screening (OCS), and third-party application to ECM. These connectors are used for event processing. For more information, see the [Loading Data](#) section.

2.2.2 Correlation

After the event data is loaded from OBD, OKYC, OCS, or third-party applications into ECM, you can correlate event-to-event based on business entities using configurable rule sets. This functionality is performed by the event correlation process. The group of events is identified for correlation-based on business entities in an application (BD, KYC, CS, or third-party). For more information, see the [Configuring Correlation](#) section.

2.2.3 Scoring

Scoring is a methodology to score events, correlation, and entity (customer or account). Every event that is correlated is scored. Initial Scoring and Adjustment Scoring are two methods of scoring. Event Scoring, Entity Scoring, Correlation Scoring, Pre-case Scoring are types of scoring. Inline Processing Engine (IPE) is used to configure scoring rules. For more information, see the [Scoring](#) section.

2.2.4 Promoted to Case

Post scoring, the pre-case that crosses the promote to case threshold is promoted to the case. Hence, the case is created for analysis. For more information, see the [Promoting to Case](#) section.

2.2.5 Processing Modelling Framework

The Enterprise Case Management Processing Modelling Framework (PMF) facilitates built-in tools for orchestration of human and automatic workflow interfaces. This enables the Administrator to create process-based ECM. It also enables the Administrator to model business processes and workflows. Workflows created using the PMF are available in the Case Designer for the Administrator to associate with any Case Type. For more information, see the [Configuring Processing Modelling Framework \(PMF\)](#) section.

2.2.6 Case Designer

Case Designer allows the Administrator to configure Case Class, Case Type, and associated definitions. Based on the configuration, definitions are dynamically rendered in the Case Management application to investigate cases and take appropriate actions on them for case resolution. For more information, see the [Managing Case Designer](#) section.

2.2.7 Case Action Settings

Case Action configuration allows the Administrator to add new case statuses, configure case action data, configure standard comment data. The Administrator can configure whether or not the case actions require a comment, a reassignment, or a due-date. For more information, see the [Configuring Actions](#) section.

3 Getting Started

This chapter provides step-by-step instructions to log in to the OFS ECM application and manages the different features of the Oracle Financial Services Analytical Applications (OFSAA) application page.

The following sections are covered in this chapter:

- [System Requirements](#)
- [Accessing OFS ECM Application](#)
- [Managing OFSAA Administration Page](#)
- [Troubleshooting Your Display](#)

3.1 System Requirements

The following applications are required to run the OFS ECM application:

- Microsoft Internet Explorer (IE) version 9 or later.
Earlier versions and other browsers are not supported and can produce errors, inaccurate data, and display failures. For users of IE version 8.0, the browser should be run in compatibility mode.
- Adobe Acrobat Reader version 9.0, or later.
You can download a free copy of the latest version of the Acrobat Reader at www.adobe.com.
- Java should be installed. JDK 1.6 (version 6) or above.
- The screen resolution of the system should be set to 1280 × 1024 or higher for proper display of the user interface (UI).

For more information, see the [OFS Enterprise Case Management Installation Guide](#).

3.2 Accessing OFS ECM Application

Access to the Oracle Financial Services Enterprise Case Management (OFS ECM) application depends on the Internet or Intranet environment. Oracle Financial Services Enterprise Case Management (OFS ECM) is accessed through Microsoft Internet Explorer (IE) or Chrome. Your system administrator provides the intranet address uniform resource locator.

Your system administrator provides you with a User ID and Password. Log in to the application through the OFSAA login page. You will be prompted to change your password on your first login. You can change your password whenever required after logging in. For security purposes, you can change the password. For more information, see the [Change Password](#) section.

Based on your firm's configuration, you can also log in with Single Sign-On (SSO).

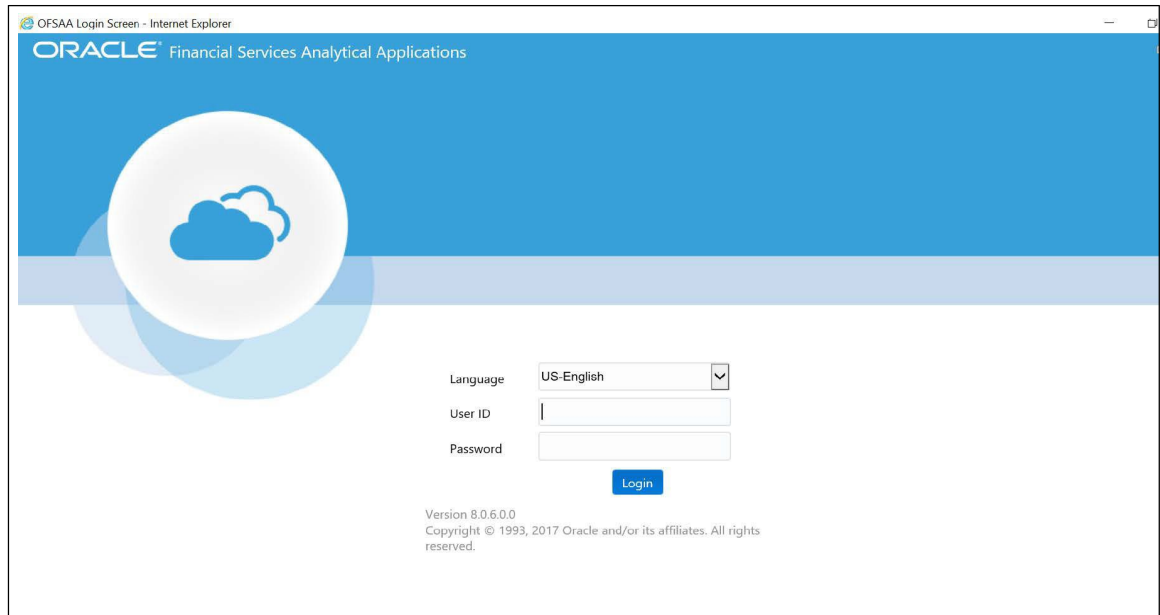
To access the OFS ECM Application, follow these steps:

1. Enter the URL into your browser using the following format:

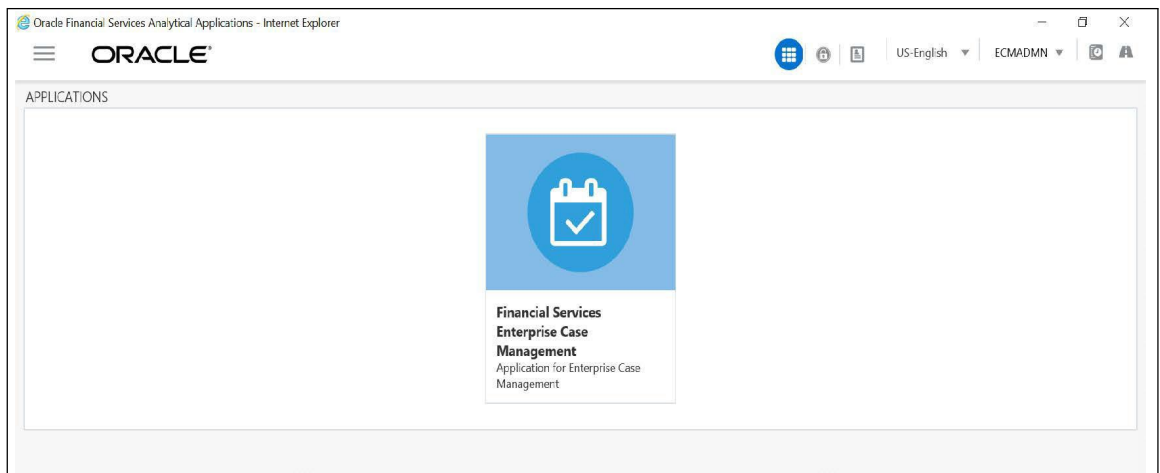
```
<scheme/ protocol>://<ip address/ hostname>:<port number>/<context-name>/login.jsp
```

For example <https://myserver:9080/ofsaapp/login.jsp>

The OFSAA login page is displayed.

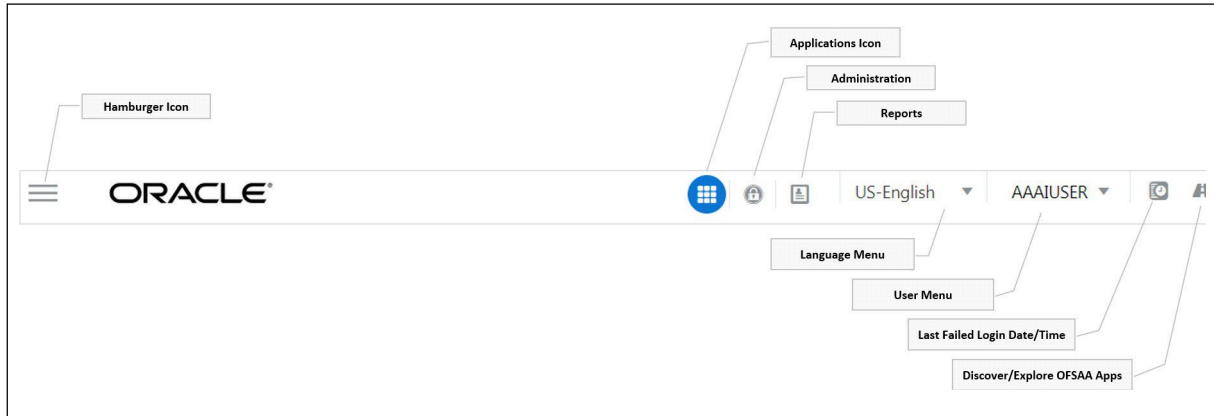


2. Select the Language from the Language drop-down list.
3. Enter your User ID and Password.
4. Click **Login**. The OFS ECM Application landing page is displayed.





Masthead

The masthead frame displays the user details along with the Language in the right-hand corner in the top frame of the window.



The following are the components of Masthead:

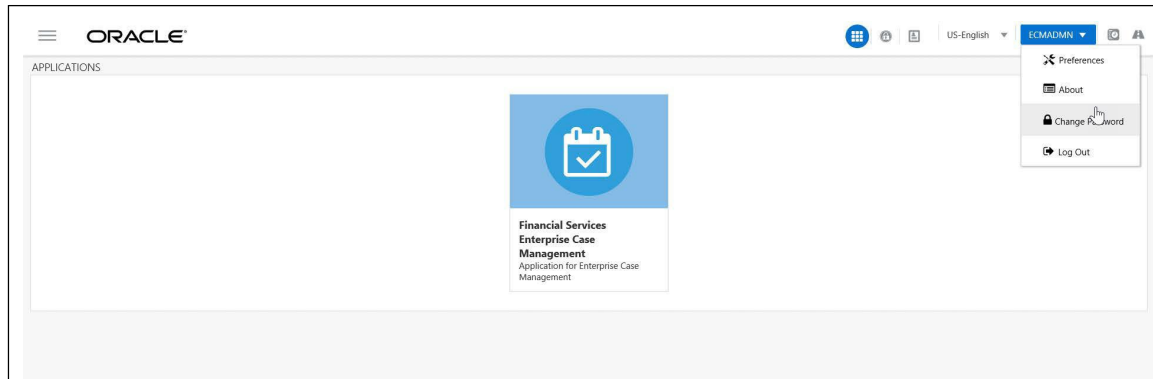
- **Hamburger Icon**- This icon is used to trigger the Application Navigation Drawer.
 - **Application Icon**- This icon is used to show the available Applications installed in your environment at any time.
 - **Administration Icon**- This icon is used to go to the Administration module.
1. Click  to view the last login details. It displays the last login date and time as well as the last failed login date and time.
 2. Click  to view the Information Domain to which you are connected. It also displays the setup details.
 3. Click the logged-in user name and the sub-menu is displayed.
 4. Click **Preferences** to set the Home Page.
 5. Click **Change Password** to change your password. For more information, see the [Change Password](#) section. This option is available only if SMS Authorization is configured.
 6. Click **Log Out** to exit Oracle Financial Services Analytical Applications Infrastructure. The built-in security system of Infrastructure ensures restricted access to the respective windows based on the user's role. This is based on the functions that you as a user are required to perform.

3.2.1 Change Password

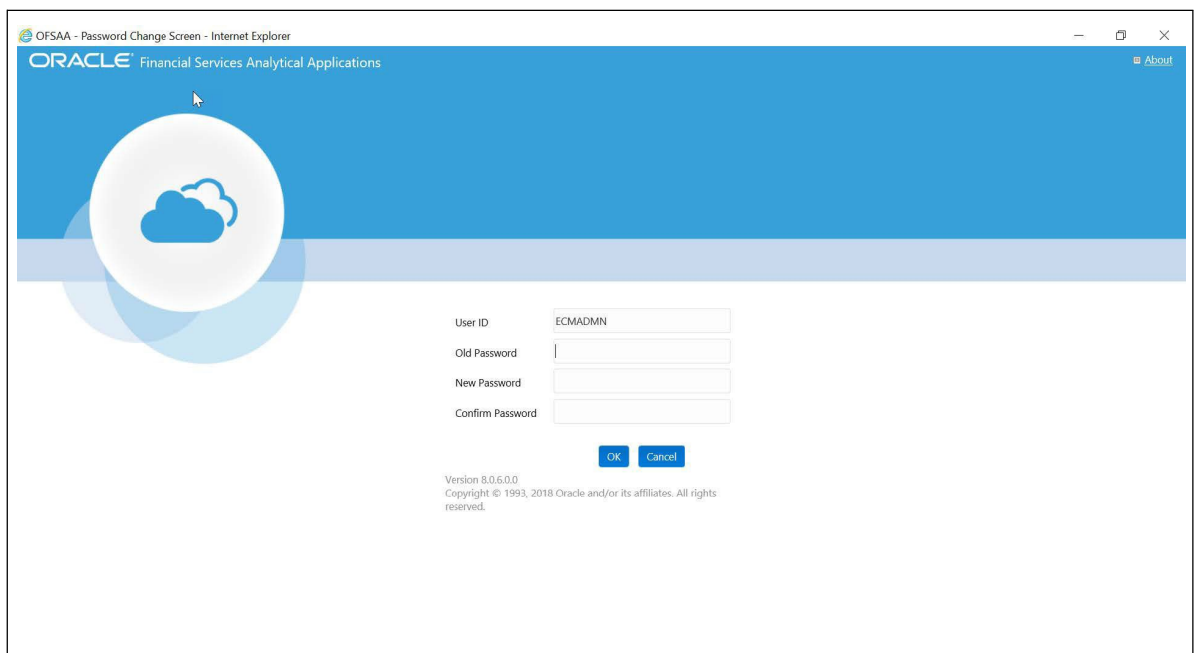
For security purposes, you can change the password. This section explains how to change the password.

To change the password, follow these steps:

1. Navigate to the OFSAA Applications page.



2. Click the User drop-down list and select **Change Password**. The Change Password page is displayed.



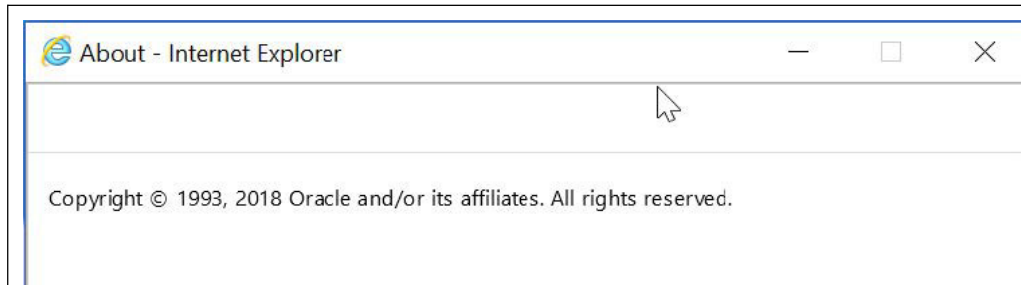
3. Enter your old and new password in the respective fields.
4. Click **OK**. Your password is changed successfully. The application navigates back to the Login page where you can log in with the new password.

NOTE Your password is case-sensitive. If you have problems with the password, verify that the Caps Lock key is off. If the problem persists, contact your system administrator.

3.2.2 Copyright Information

To access copyright information, click the User drop-down list and select **About** on the OFSAA login page.

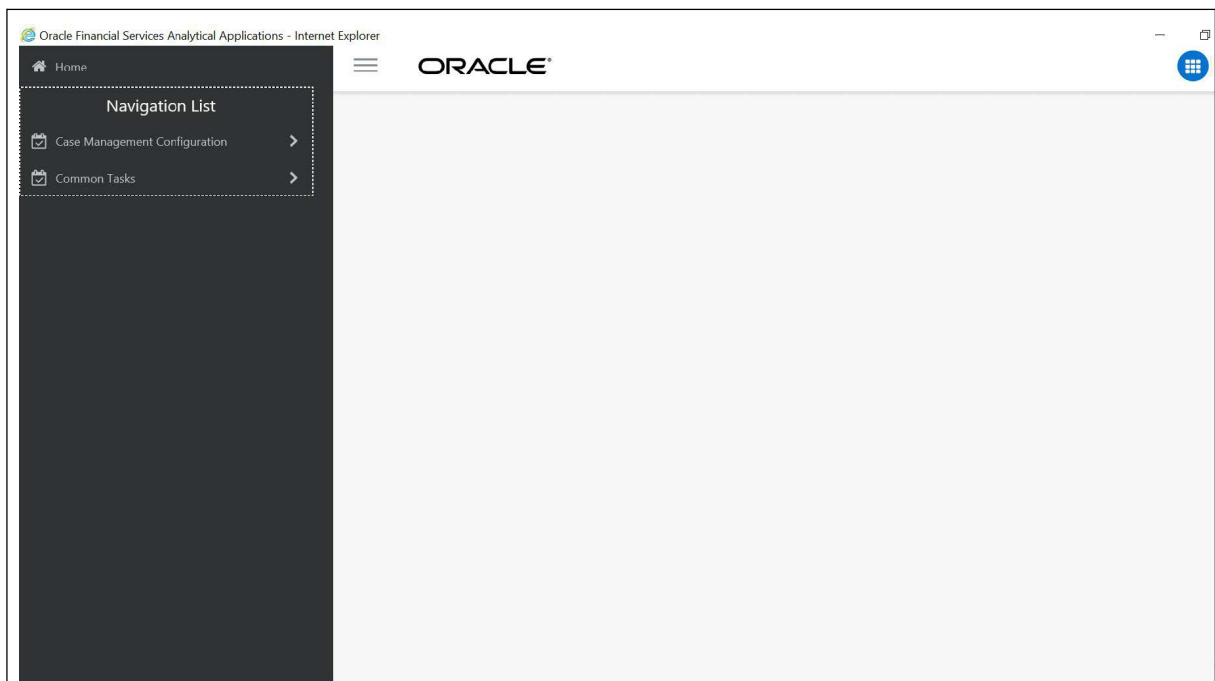
The Copyright text displays in a new window.



3.2.3 Selecting Applications

This section explains how to access the required applications.

The OFSAA Applications page has multiple tabs and each tab has specific links to OFSAA Infrastructure and Application modules. The modules which you can access depend on your user role and the OFSAA Application you select. The relevant tabs and links are displayed.

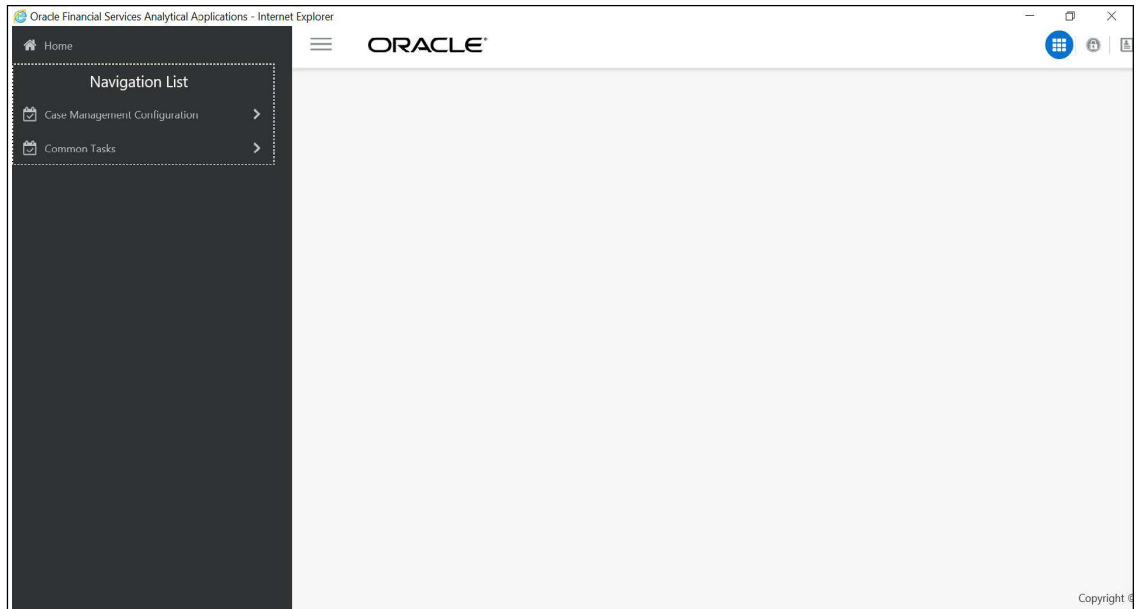


This page is divided into two panes:

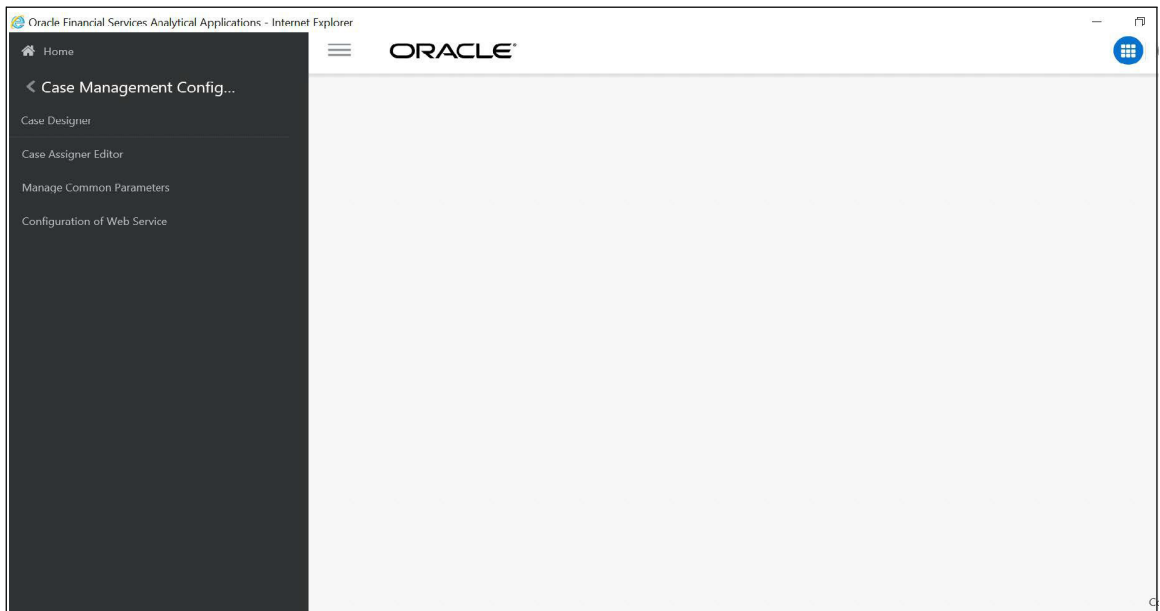
- **Left Pane:** Displays menus and links to modules in a tree format based on the application selected in the Select Applications drop-down list.
- **Right Pane:** Displays menus and links to modules in a navigational panel format based on the selection of the menu in the Left pane. It also provides a brief description of each menu or link.

To access ECM applications, follow these steps:

1. Navigate to the OFSAA Applications page.
2. Select **Financial Services Enterprise Case Management**. The Enterprise Case Management page is displayed.

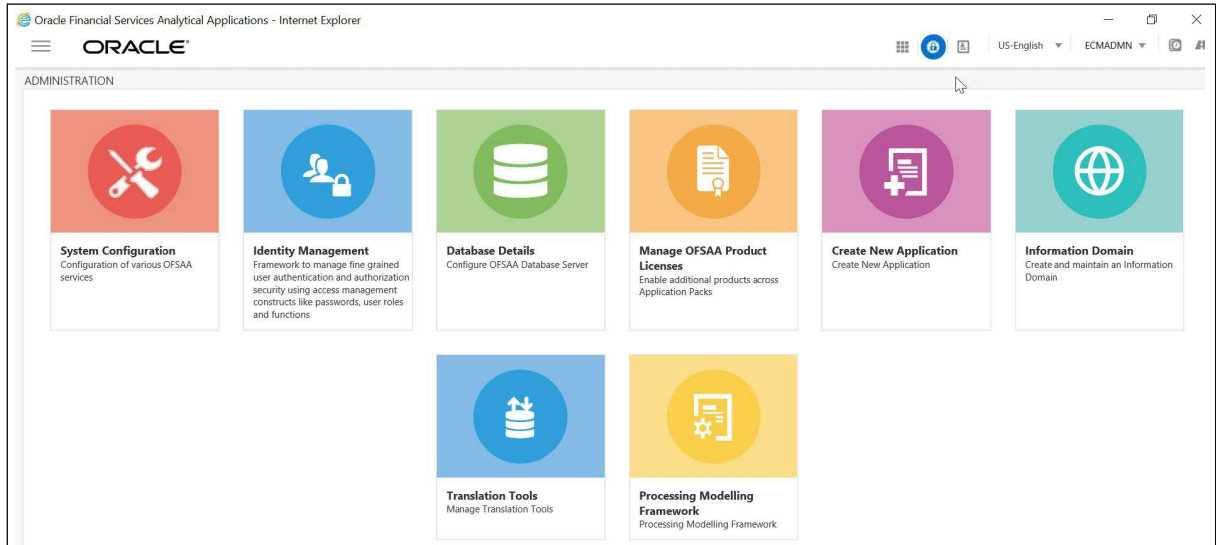


3. Click **Case Management Configuration**. The Case Management Details are displayed.



3.3 Managing OFSAA Administration Page

This section describes the different panes and tabs on the OFSAA Administration page.



A common landing page is available for all users until a preferred application landing page has been set.

3.4 Troubleshooting Your Display

If you experience problems logging into Oracle Financial Services ECM or with your display, the browser settings may be incompatible with running OFSAA applications. The following sections provide instructions to set the Web display options for OFSAA applications within Internet Explorer (IE).

NOTE

The following procedures apply to all versions of IE listed in the *System Requirements* section. Separate procedures are listed for each version where differences exist in the locations of settings and options.

This section covers the following topics:

- [Enabling JavaScript](#)
- [Enabling Cookies](#)
- [Enabling Temporary Internet Files](#)
- [Enabling File Downloads](#)
- [Setting Printing Options](#)
- [Enabling Pop-up Blocker](#)
- [Time Zone Offset](#)

3.4.1 Enabling JavaScript

JavaScript must be enabled in the browser. To enable JavaScript, follow these steps:

1. From the Tools menu, click **Internet Options**.

- The Internet Options dialog box displays.
2. Click the **Security** tab.
 3. Click the **Local Intranet** icon as your Web content zone.
 4. Click **Custom Level**.

- The Security Setting - Local Intranet Zone dialog box displays.
- In the Settings list and under the Scripting setting, ensure that Enable is selected for all options.
5. Click **OK**, then click **OK** again to exit the Internet Options dialog box.

3.4.2 Enabling Cookies

Cookies must be enabled. If you have problems troubleshooting your display, contact your System Administrator.

3.4.3 Enabling Temporary Internet Files

Temporary Internet files are pages that you view on the Internet and store in a folder for quick viewing later. You must adjust this setting to always check for new versions of a stored page. To adjust your Temporary Internet File settings, follow these steps:

1. From the Tools menu, click **Internet Options**.
The Internet Options dialog box displays.
2. On the General tab, click **Settings**.
The Website Data Settings dialog box displays.
3. Select the **Every time I visit the webpage** option.
4. Click **OK**, then click **OK** again to exit the Internet Options dialog box.

3.4.4 Enabling File Downloads

File downloads must be available. To enable file downloads, follow these steps:

1. From the Tools menu, click **Internet Options**.
The Internet Options dialog box displays.
2. Click the **Security** tab.
3. Click the **Local Intranet** icon as your Web content zone.
4. Click **Custom Level**.
The Security Setting - Local Intranet Zone dialog box displays.
5. Under the Downloads section, ensure that **Enable** is selected for all options.
6. Click **OK**, then click **OK** again to exit the Internet Options dialog box.

3.4.5 Setting Printing Options

Printing background colors and images must be enabled. To enable this option, follow these steps:

1. From the Tools menu, click **Internet Options**.
The Internet Options dialog box displays.

2. Click the **Advanced** tab.
3. In the Settings list, under the Printing setting, click **Print background colors and images**.
4. Click **OK** to exit the Internet Options dialog box.

TIP

For best display results, use the default font settings in your browser.

3.4.6 Enabling Pop-up Blocker

Some users may experience difficulty running the Oracle Financial Services ECM application when the IE Pop-up Blocker is enabled. It is recommended to add the URL of the application to the *Allowed Sites* in the Pop-up Blocker Settings in the IE Internet Options.

To enable Pop-up Blocker, follow these steps:

1. From the Tools menu, click **Internet Options**. The Internet Options dialog box displays.
2. Click the **Privacy** tab.
3. In the Pop-up Blocker setting, select the **Turn on Pop-up Blocker** option. The **Settings** is enabled.
4. Click **Settings** to open the Pop-up Blocker Settings dialog box.
5. In the Pop-up Blocker Settings dialog box, enter the URL of the application in Address of website to allow.
6. Click **Add**. The URL appears in the Allowed sites list.
7. Click **Close**, then click **Apply** to save the settings.
8. Click **OK** to exit the Internet Options dialog box.

3.4.7 Time Zone Offset

The date and time displayed in the ECM application will be offset from the server time zone and correspond to the time zone the user has set on their personal computer.

The time zone offset does not impact:

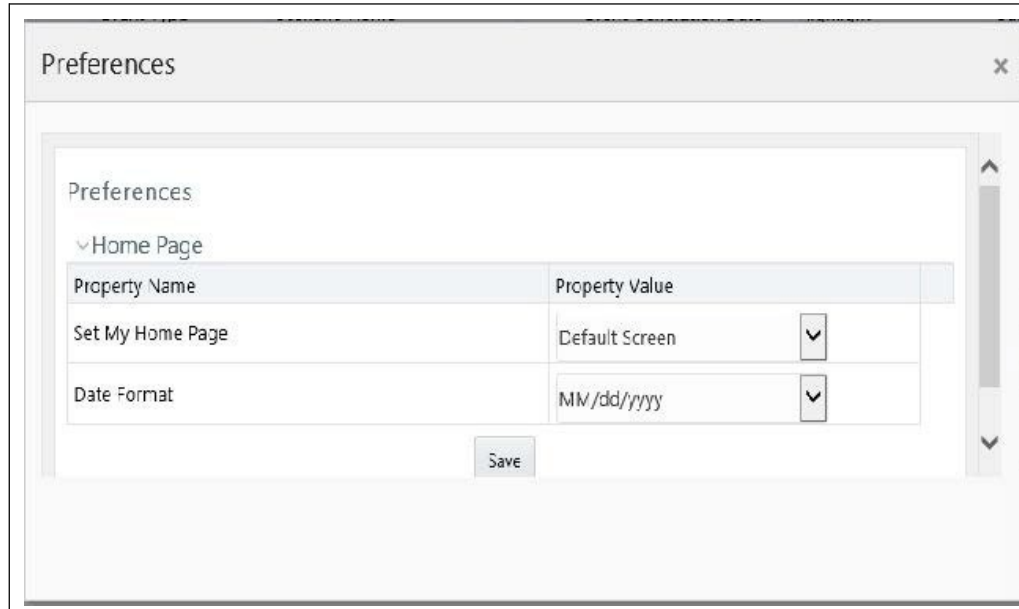
- Date of Birth
- Date of Incorporation
- Summary grids
- Date/time an email/RFI is sent
- Date/time shown in Print PDF
- Derived Case Attributes which display date/time

3.5 Setting Preferences

The Preferences section enables you to set your OFSAA Home Page.

To access this section, follow these steps:

1. Click **Preferences** from the drop-down list in the top right corner, where the user name is displayed.
The Preferences screen is displayed.



2. In the Property Value drop-down list, select the application which you want to set as the Home Page.
3. Define the date format. The default date format is **MM/dd/yyyy**. You can change this to **dd/MM/yyyy** format.

NOTE Whenever a new application is installed, the related value for that application is found in the drop-down list

4. Click **Save** to save your preference.:

NOTE In ECM Application, for `DEFAULT_DATEFORMAT_REQ`, `PARAMVALUE` should be set to 'TRUE' in the `CONFIGURATION` table. Run the below update Query in CONFIG Schema and restart the servers, if the parameter is not set to TRUE

```
update CONFIGURATION t set t.PARAMVALUE = 'TRUE' where t.paramname = 'DEFAULT_DATEFORMAT_REQ';
```

4 Managing User Administration and Security Configuration

This chapter provides instructions to set up and configure the Security Management System (SMS) to support ECM application, user authentication, and authorization.

The following sections are covered in this chapter:

- [About User Administration](#)
- [Administrator User Privileges](#)
- [User Provisioning Process Flow](#)
- [Managing User Administration](#)
- [Mapping Security Attributes to Organizations and Users](#)

4.1 About User Administration

User administration involves creating and managing users and providing access based on their roles. This chapter discusses the following:

- Administrator permissions
- Creating and mapping users and user groups
- Loading and mapping security attributes

4.2 Administrator User Privileges

An ECM administrator has the following access permissions:

- User Security Administration
- Excel Upload
- Web Service Configuration
- Common Web Service
- Preferences
- User Administration
- Security Management System
- Security Attribute Administration
- Manage Common Parameters
- Case Management Configuration
- Unified Metadata Manager
- Processing Modelling Framework
- Case Designer

4.3 User Provisioning Process Flow

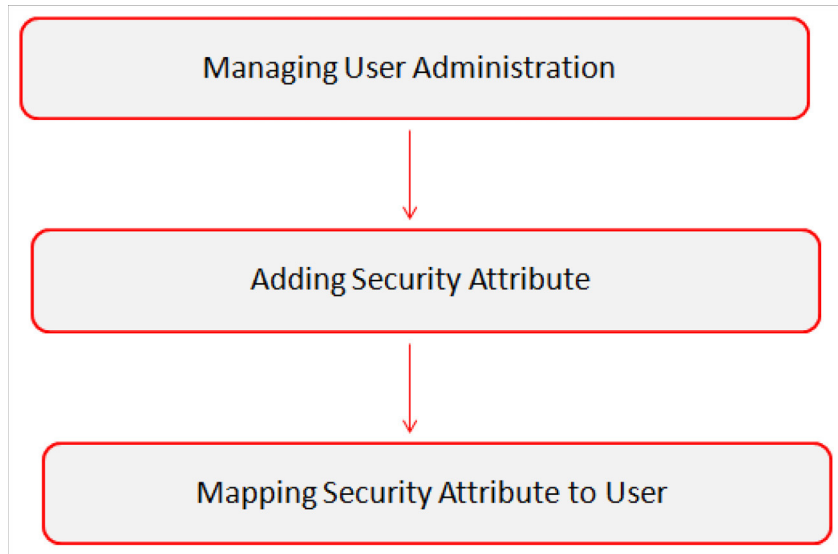


Table 4 lists the various actions and associated descriptions of the user administration process flow.

Table 3: User Provisioning Process Flow

| Action | Description |
|--|---|
| Managing User Administration | Create users and map users to User Groups. The Administrator can provide access, monitor, and administer users. |
| Adding Security Attributes | Load security attributes using either Excel or SQL scripts. |
| Mapping Security Attributes to Organizations and Users | Map security attributes to users is to determine which security attributes control the user's access rights. |

4.3.1 Requirements to Access ECM Application

A user gains access to the ECM application based on the authentication of a unique user ID and password.

To access the ECM application, you must fulfill the following conditions:

Table 4: Requirements

| Applications | Conditions |
|----------------------|---|
| Case Management | <ul style="list-style-type: none"> • Set of policies that associate functional roles with access to specific system functions • Access to one or more case types • One or more associated organizational affiliations that control the user's access to cases • Access to one or more jurisdictions • Access to one or more business domains |
| Administration Tools | Set of policies that associate the admin functional role with access to specific system functions |

4.4 Managing User Administration

This section allows you to create, map, and authorize users defining a security framework that can restrict access to the ECM application.

4.4.1 Managing Identity and Authorization

This section explains how to create a user and provide access to the ECM application.

This section covers the following topics:

- [Managing Identity and Authorization Process Flow](#)
- [Creating and Authorizing a User](#)
- [Mapping a User with a User Group](#)

4.4.1.1 Managing Identity and Authorization Process Flow

Figure 1 shows the process flow of identity management and authorization.

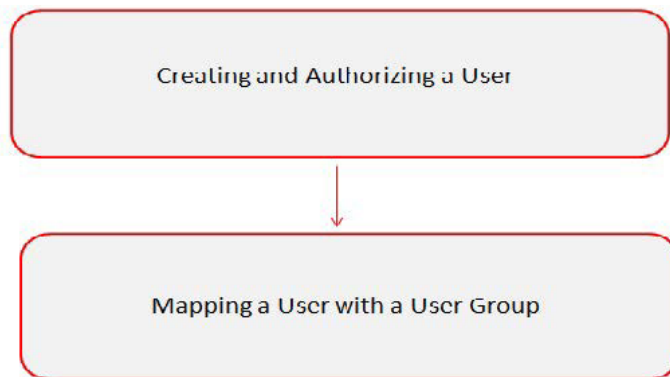


Figure 1: Managing Identity and Authorization Process Flow

Table 4 lists the various actions and associated descriptions of the user administration process flow:

Table 5: Administration Process Flow

| Action | Description |
|----------------------------------|---|
| Creating and Authorizing a User | Create a user. This involves providing a user name, user designation, and dates between which the user is active in the system. |
| Mapping a User with a User Group | Map a user to a user group. This enables the user to have certain privileges of the mapped user group. |

4.4.1.2 Creating and Authorizing a User

The SYSADMN and SYSAUTH roles can be provided to users in the ECM application. User and role associations are established using the Security Management System (SMS) and are stored in the Config Schema. User security attribute associations are defined using Security Attribute Administration.

NOTE Make sure the same User ID should not already exist as an organization in the KDD_ORG table.

For more information on creating and authorizing a user, see *Chapter 9*, in [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

4.4.1.3 Load User Configuration Data into CSSMS_ATTRIB_MAST table Using Excel Upload

To load user configuration data, follow these steps:

1. Navigate to Financial Services Enterprise Case Management, go to Common Tasks.
2. Select **Unified Metadata Manager**. Click **Data Entry Forms and Queries**.
3. Click **Upload**. Select **Config Schema Upload**.
4. Select the CSSMS_ATTRIB_MAST table in the **Select the table** drop-down list.
5. In **Select the File to Upload** field, click **Browse**. In **Choose File to Upload** window, specify the path of the data file (Microsoft Excel 2003/2007) which you want to upload. The CSSMS_ATTRIB_MAST.xlsx will be available in the /STAGE/ExcelUpload/TEMPLATE path inside the FTPSHARE folder.
6. Click **Select the Sheet** button, the Sheet Selector pop-up window is displayed. Select the required sheet from the drop-down list and click OK. If the excel contains multiple sheets, select the sheet from which data is to be uploaded. Else, default the first sheet data is selected for upload.
7. In the Upload Type options, select one of the following:
 - **Incremental**: In this type of upload, the data in the Excel sheet is inserted/appended to the target database object. The upload operation is successful only when all the data in the selected Excel Sheet is uploaded. In case of an error, the uploaded data will be rolled back.

4.4.1.5 Mapping a User with a User Group

This section explains how to map Users and User Groups. With this, the user will have access to the privileges as per the role. The SYSADMIN user maps a user to a user group in the ECM application.

Table 6 describes the Case Management User Roles and corresponding User Groups.

Table 6: Case Management Roles and User Groups

| User Role | Group Name | User Group Code |
|--------------------|---|-------------------------|
| Case Analyst2 | Case Analyst2 User Group | CMANALYST2UG |
| Case Supervisor | Case Supervisor User Group | CMSUPERVISORUG |
| Case Viewer | Case Viewer User Group | CMVIEWERUG |
| Case Administrator | Case Administrator User Group | CMMANADMNUG |
| RFIUSRROLE | RFI Questionnaire Response Access Group | RFIUSRGROUP |
| CMSECRROLE | Refer Note ¹ | Refer Note ¹ |

Note:

- If a user logs in with multiple roles, then the system will display actions on the Case List and Case Details page based on the highest role. In the Take Action pop up window, if Supervisor and Analyst both roles are mapped to a user, then Analyst actions will be suppressed provided below notation is followed:
 - **Supervisor Actions:** Action code should be suffixed with S.
 - **Analyst Actions:** Action code should be suffixed with A.
- Do not assign Admin roles and Investigation roles (Supervisor, Analyst, Viewer roles) together for a user.
- **RFIUSRGROUP** user group code can be associated with any user for getting access to the RFI Questionnaire Response UI.
- **CMSECRROLE¹** role can be used for mapping to user groups, which are created only for security Attribute Mapping purposes. Usergroups mapped to this role will appear in the Mapper Maintenance Screen, along with the OOB User Groups.

4.5 Adding Security Attributes

This section explains about security attributes, the process of uploading security attributes, and mapping security attribute to users in the ECM application.

This section covers the following topics:

- Prerequisites
- Loading Security Attributes

4.5.1 Prerequisites

Update the FCC_SECURITY_ATTRIBUTES table before triggering the batch. This table contains information about Jurisdiction, Business Domain, and their attribute priority.

Table 7: FCC_SECURITY_ATTRIBUTES

| Column Name | Description | Primary Key | Column Type | Nullable |
|----------------------|---|-------------|--------------|----------|
| V_ATTRIBUTE_TYPE | Type of the attribute. It should be Jurisdiction or Business Domain. | Y | VARCHAR2(50) | No |
| V_ATTRIBUTE_VALUE | Value of the attribute. For example, the Jurisdiction name can be INDIA, AMEA, and so on. Business Domain can be a Single-character code that represents a business domain (for example, a, b, or c). | | VARCHAR2(50) | No |
| V_ATTRIBUTE_PRIORITY | The priority of the attribute. For example, value 1 for the Jurisdiction type will have high Jurisdiction priority. | | NUMBER | No |

Here, the V_ATTRIBUTE_VALUE should be the same as mentioned in the V_JURISDICTION_CD and V_BUSINESS_DOMAIN_CD columns of the FCC_EVENTS table. For example, if we have events generated with V_JURISDICTION_CD as "AMEA" and V_BUSINESS_DOMAIN_CD as "a" then the same should be updated in the respective column of FCC_SECURITY_ATTRIBUTES table.

4.5.2 About Security Attributes

Security Attributes help an organization classify their users based on their geography, jurisdiction, and business domain, to restrict access to the data that they can view.

You must map the roles with access privileges, and since these roles are associated with user groups, the users associated with the user groups can perform activities throughout the functional areas in the ECM application.

4.5.2.1 Types of Security Attributes

The following are the security attributes:

- Jurisdiction
- Business Domain
- Case Type
- Organization

4.5.2.1.1 Jurisdiction

OFS ECM application uses jurisdictions to limit user access to data in the database. Records from the Oracle client that the Administrator loads must be identified with jurisdiction and users of the system must be associated with one or more jurisdictions. In the Case Management system, users can view only data or cases associated with jurisdictions to which they have access. You can use jurisdiction to divide data into the database. For example:

- **Geographical:** Division of data based on geographical boundaries, such as countries, states, and so on.
- **Organizational:** Division of data based on different legal entities that compose the client's business.
- **Other:** Combination of geographic and organizational definitions. Also, it is client-driven and can be customized.

In most scenarios, a jurisdiction also implies a threshold that enables the use of this data attribute to define separate threshold sets based on jurisdictions. The list of jurisdictions in the system resides in the `KDD_JRSDCN` table.

4.5.2.1.2 Business Domain

Business domains are used for data access controls similar to jurisdiction but have a different objective. The business domain can be used to identify records of different business types such as Private Client versus Retail customer or to provide more granular restrictions to data such as employee data. The list of business domains in the system resides in the `KDD_BUS_DMN` table. The system tags each data record provided through to one or more business domains. It also associates users with one or more business domains in a similar fashion. If a user has access to any of the business domains that are on a business record, the user can view that record.

The business domain field for users and data records is a multi-value field. For example, you define two business domains:

- **a:** Private Client
- **b:** Retail Banking

A record for an account that is considered both has `BUS_DMN_SET=ab`. If a user can view the business domain **a** or **b**, the user can view the record. You can use this concept to protect special classes of data, such as data about executives of the firm. For example, you can define a business domain as *e: Executives*. You can assign this business domain to the employee, account, and customer records that belong to executives. Thus, only specific users of the system have access to these records. If the executive's account is identified in the Private Client business domain, any user who can view Private Client data can view the executive's record. Hence, it is important not to apply many domains to one record.

The system also stores business domains in the `KDD_CENTRICITY` table to control access to Research against different types of entities. Derived External Entities and Addresses inherit the business domain set that is configured in `KDD_CENTRICITY` for those focus types.

4.5.2.1.3 Case Type

You must establish access permissions associated with the available Case Types. The Case Type is used for data access controls similar to business domains but has a different objective. The Case Type can be used to identify records of different case types or to provide more granular restrictions to data such as case data.

The following tables are involved in the display of the Case Type in the Case Management UI and are specific to the Enterprise Case Management implementation.

- **KDD_CASE_TYPE_SUBTYPE:** Each record in the Case Type table represents a case type. Case Class is the topmost definition through which a case is created. Case Type provides a detailed classification of a case. When generated, a case should be mandatorily assigned to one of the case types for further investigation.

4.5.2.1.4 Organization

Organizations are used for data access controls. Organizations are user groups to which a user belongs. The list of Organizations in the system resides in the `KDD_ORG` table.

4.5.3 Loading Security Attributes

This section covers the following topics:

- [Loading Security Attributes through Excel](#)
- [Loading Security Attributes through SQL Scripts](#)

For more information on loading Case type, see the [Managing Case Designer](#) section.

4.5.3.1 Loading Security Attributes through Excel

The Excel Upload process inserts the data into the appropriate dimension tables based on the pre-configured Excel Upload definitions installed during the application installation.

NOTE Data that already exists must not be loaded again, as this results in failure of the upload. When uploading additional records, only the incremental records should be maintained in the Excel template with the correct unique identifier key.

- All template Excel files for Excel Upload are available in `ftpshare/STAGE/ExcelUpload/AMC-MLookupFiles`
- All date values should be provided in `MM/DD/YYYY` format in the Excel worksheet.
- Whenever a record is deleted from the Excel worksheet, the complete row should be deleted (no blank active record should exist in the Excel worksheet).
- After selecting the Excel template, preview it before uploading it.

Security attributes are loaded through Excel using the following templates:

Table 8: Security Attributes and Excel Templates

| Security Attribute | Excel Template |
|--------------------|------------------------------|
| Jurisdiction | <code>KDD_JRSDCN.xls</code> |
| Business Domain | <code>KDD_BUS_DMN.xls</code> |
| Organization | <code>KDD_ORG.xls</code> |

4.5.3.1.1 Uploading Excel

To load the security attributes using excel, follow these steps:

1. Log in as the Case Management Administrator. The ECM application home page is displayed.
2. Click **Case Management**. The Case Management page is displayed.
3. Mouse over the Administration menu and click **Excel Upload**. The *Excel Upload* dialog box is displayed.
4. Click **Excel Upload**.
5. Browse your system and select the Excel file.
6. Select **Sheet** from Sheet drop-down list.
7. Go to the Excel-Entity Mappings section. Click the Arrow icon to select one or more Mapping IDs from the dialog box. Excel is updated.

4.5.3.2 Loading Security Attributes through SQL Scripts

This section covers the following topics:

- [Loading Jurisdictions](#)
- [Loading Business Domains](#)
- [Loading Organizations](#)

4.5.3.2.1 Loading Jurisdictions

To load jurisdictions in the database, follow these steps:

Table 9: Add the appropriate record to the KDD_JRSDCN database table as mentioned in Table 10.

Table 10: KDD_JRSDCN Table Attributes

| Column Name | Description |
|----------------------|---|
| JRSDCN_CD | Code (one to four characters) that represents a jurisdiction such as N for North, or S for South. |
| JRSDCN_NM | Name of the jurisdiction such as North or South. |
| JRSDCN_DSP- LY_NM | Display the name of the jurisdiction such as North or South. |
| JRSDCN_DESC_TX | Description of the jurisdiction such as Northern US or Southern US. |

NOTE The data in the KDD_JRSDCN database table is loaded through the Atomic schema.

8. Add records to the table using an SQL script similar to the following sample script:
9.

```
INSERT INTO KDD_JRSDCN (JRSDCN_CD, JRSDCN_NM, JRSDCN_DSPLY_NM, JRSDCN_DESC_TX)
VALUES ('E', 'East', 'East', 'Eastern')
```

NOTE The KDD_JRSDCN table is empty after system initialization and must be populated before the system starts operation.

4.5.3.2.2 Loading Business Domains

To load a business domain, follow these steps:

1. Add the appropriate user record to the `KDD_BUS_DMN` database table as mentioned in [Table 11](#).

Table 11: KDD_BUS_DMN Table Attributes

| Column Name | Description |
|-----------------------|---|
| BUS_DMN_CD | Single-character code that represents a business domain such as a, b, or c. |
| BUS_DMN_- DESC_TX | Description of the business domain such as Institutional Broker-Dealer or Retail Banking. |
| BUS_DMN_DSP- LY_NM | Display the name of the business domain, such as INST or RET. |

NOTE The `KDD_BUS_DMN` table already contains predefined business domains for the Oracle client.

2. Add more records to the table using a SQL script similar to the following sample script:

```
INSERT INTO KDD_BUS_DMN (BUS_DMN_CD, BUS_DMN_DESC_TX, BUS_DMN_DSPLY_NM,
MANTAS_DMN_FL) VALUES ('a', 'Compliance Employees', 'COMP', 'N');
```
3.

```
INSERT INTO KDD_BUS_DMN (BUS_DMN_CD, BUS_DMN_DESC_TX, BUS_DMN_DSPLY_NM,
MANTAS_DMN_FL) VALUES ('b', 'Executives'
'EXEC', 'N');
```
4.

```
COMMIT;
```
5. Update the `KDD_CENTRICITY` table to reflect access to all focuses within the business domain with the following command:
6.

```
update KDD_CENTRICITY set bus_dmn_st = 'a'
where KDD_CENTRICITY. CNTRY_TYPE_CD = 'SC'
```

4.5.3.2.3 Loading Organizations

To load an organization in the database, follow these steps:

1. Add the appropriate user record to the `KDD_ORG` database table as mentioned in [Table 12](#).

Table 12: KDD_ORG Table Attributes

| Column Name | Description |
|-------------|---|
| ORG_CD | Unique identifier for this organization. |
| ORG_NM | Short name for this organization that is used for display purposes. |
| ORG_DESC_TX | Description of this organization. |
| PRNT_ORG_CD | The parent organization of which this organization is considered to be a child. NOTE: This should reference an ORG_CD in the KDD_ORG table. |
| MODFY_DT | Last modified date and time for this organization record. |
| MODFY_ID | User ID of the user who last modified this organization data. NOTE: This should reference a user in the Investigation Owner table (KDD_REVIEW_OWNER.OWNER_SEQ_ID). You can also set the value to <code>owner_seq_id</code> to 1, which is the SYSTEM value if another suitable ID is not available. |
| COMMENT_TX | Additional remarks are added by the user. |

2. Add more records to the table using a SQL script similar to the following sample script.
3.

```
INSERT INTO KDD_ORG (ORG_CD,ORG_NM,ORG_DESC_TX,PRNT_ORG_CD,MODFY_DT,MODFY_ID,COMMENT_TX) VALUES ('ORG1','COMPLIANCE ORG','DEPARTMENT FOR INVESTIGATION','ORG1 PARENT ORG','01-JUN-2014',1234,'ADDING KDD_ORG ENTRIES')
```

4.6 Mapping Security Attributes to Organizations and Users

This section covers the following topics:

- [Introduction](#)
- [Prerequisites for Mapper Maintenance](#)
- [Using Mapper Maintenance](#)

4.6.1 Introduction

Security attributes can be mapped to User groups using a Security mapper. This is done using the Mapper Maintenance window. Attributes mapped to User groups in the mapper, are mapped against each user in that user group, after running the Security batch.

The following are members of the Mapper:

- Usergroups
- Organization
- Jurisdiction

- Business Domain
- Case Type

4.6.2 Prerequisites for Mapper Maintenance

The following are the prerequisites for Mapper Maintenance:

- Loading Security Attributes Data
- Configuring Function
- Resaving Metadata
- Loading User Configuration Data

4.6.2.1 Loading Security Attributes Data

To load security attribute data, follow these steps:

1. Load the security attribute data into the following table:

Table 13: Security Attribute Data

| Security Attribute | Table Name |
|--------------------|-------------|
| Organization | KDD_ORG |
| Jurisdiction | KDD_JRSDCN |
| Business Domain | KDD_BUS_DMN |

For more information, see the [LoadingData](#).

4.6.2.2 Configuring Function

You can configure the Usergroups to display them in the Mapper window. To configure the function, follow these steps:

1. Provide the Function code in the `KDD_INSTALL_PARAM` table for `param_name='ECM Security Function'`. By default, the `CMACCESS` function is provided.
2. All the User Groups mapped to that Function are displayed in the Mapper.

NOTE

The owner role should be updated in `ATTR_1_VALUE_TX` column. Update the owner name as mentioned in `DEFAULT_CASE_OWNER_1` to `ATTR_1_VALUE_TX` column of the `KDD_INSTALL_PARAM` table.

Update the column `ATTR_3_VALUE_TX` for `PARAM_ID=7` with the RRS URL in the `KDD_INSTALL_PARAM` table where you want to post the case.

4.6.2.3 Resaving Metadata

Data modifications to the Master, Reference, Base tables reflect in the Hierarchy/Derived Entity values. To enable this, Metadata re-save is required after data load into those Master/Reference/Setup table on which the hierarchy/ Derived Entity is defined.

You can re-save Hierarchy/Derived Entity using the Save Metadata screen.

4.6.2.3.1 Hierarchy Re-save

1. Log in as an ECM Admin user.
2. Navigate to Financial Services Enterprise Case Management and select Common Tasks.
3. Select Utilities and click **Save Metadata**.
4. Select the Hierarchy and select the below-mentioned Hierarchy. To select them, use >> button and click **Save**.
 - ECM_User Group
 - ECM_Organization
 - ECM_Jurisdiction
 - ECM_Business Domain
 - ECM_Case Type

4.6.2.3.2 Derived Entity Re-save

1. Log in as an ECM Admin user.
2. Navigate to Financial Services Enterprise Case Management and select Common Tasks.
3. Select Utilities and click **Save Metadata**
4. Select Derived Entity and select the below mentioned Derived Entities. To select them, use >> button and click **Save**.
 - DE_GRPMAST
 - DE_GROUP
 - DE_ROLE
 - DE_ROLE_FUNCTION_MAP
 - Derived Entity on Usergroup Dataset

4.6.2.4 Loading User Configuration Data

Load the User configuration data into the CSSMS_ATTRIB_MAST table using Excel Upload if not done during before User creation. For more information, see the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

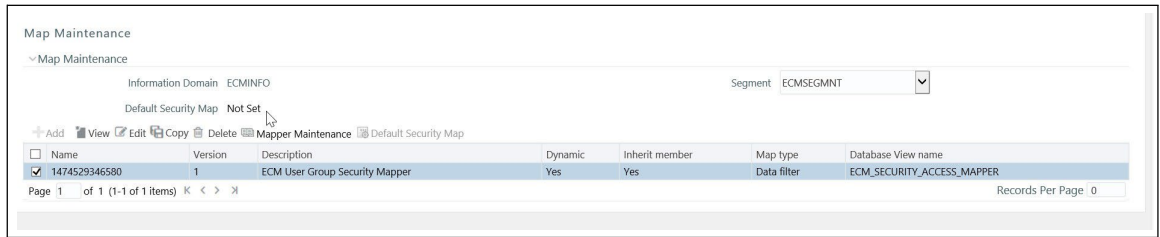
Create or Edit the user for which you must map the Security Attributes. For more information, see the [Managing Identity and Authorization](#) section.

4.6.3 Using Mapper Maintenance

The Line Organization and Own Case Flag parameters are mapped using the User Maintenance screen and the mapping of Security Attributes to a Case Investigation User (via user group) is done through the Map Maintenance.

1. Login as an ECM Admin user.
2. Navigate to Financial Services Enterprise Case Management and go to Common Tasks.
3. Select Unified Metadata Manager and click Business Metadata Management, and click **Map Maintenance**.

4. Select ECM User Group Security Mapper from the Mapper List. Click **Map Maintenance**.



5. User Group Default Security mapper window is displayed. Click **Add**.

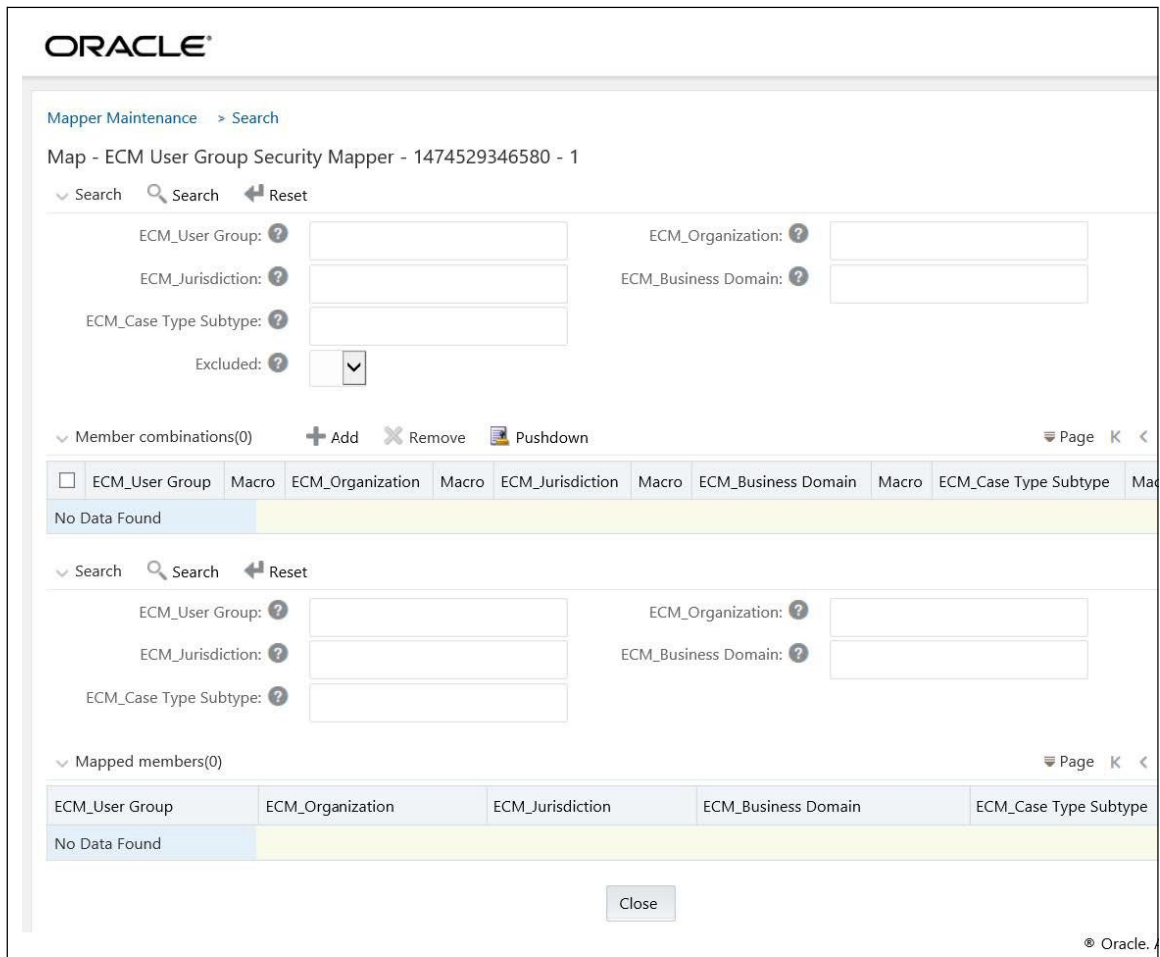


Figure 2: User Group Security Mapper window

6. The Add Mapping Screen is displayed with all the Hierarchies.
 - Usergroups of the users for the Security Attributes are mapped. Lists all User groups which are mapped to the Function code mentioned in KDD_INSTALL_PARAM.
 - Organization: A User or Organization's access to other Organizations depends on the selection(s) made for this organization parameter. For example, if a user is mapped to Org1 and Org2, then the user can access these two organizations, but other security attributes are also should match.

- Jurisdiction: Mapping of one or more jurisdictions to a usergroup, gives the privilege of accessing cases that belong to the mapped jurisdiction.
 - Business Domain: Mapping of one or more business domains to a usergroup gives the privilege of accessing cases that belong to the mapped business domains.
 - Case Type: Mapping of one or more Case Types to a usergroup gives them the privilege of accessing cases that belong to the mapped Case Type.
7. Select the required values from each hierarchy and click **Go**. Click **Save**.
 8. Click **Save**. You are directed to the previous screen, where the Member combinations can be viewed. All the changes get saved in the ECM_SECURITY_ACCESS_MAPPER table and respective view ECM_SECURITY_ACCESS_MAPPER_VW.

For more information on Mapper, see the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

4.6.3.1 Updating Control Access tables from Mapper

To reflect the changes to the KDD_REVIEW_OWNER table and other control access mapping tables, you need to run the ECM Security Batch.

NOTE If you are creating a new user, then perform the security mapping for that user and again execute the ECM_SECURITY_BATCH.

- Batch Maintenance
- Batch Execution
- Batch Monitor/Checking the Execution Status

4.6.3.2 Changing ICC Batch Ownership to ECM Admin from SYSADMN user

All updates made to all the user profiles through User Maintenance UI, and Mapping done using Map Maintenance are imported from the CSSMS_USER_PROFILE table of OFSSAAI configuration schema to KDD_REVIEW_OWNER table with the help of ICC Batch.

By default, the ICC Batch used for ECM Security Batch is automatically assigned to SYSADMN user during Installation. To view the batches in Batch Maintenance, follow these steps:

1. Execute the following queries in Config Schema of the Database:

Syntax:

```
begin
```

```
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromUser','toUser','infodom');
```

```
end;
```

```
OR
```

```
begin
```

```
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP ('fromuser','touser');
```

```
end;
```

Here,

- **fromUser** indicates the user who currently owns the batch
- **toUser** indicated the user to which the ownership has to be transferred
- Infodom is an optional parameter if specified the ownership of batches pertaining to that Infodom will be changed.

For example:

begin

```
AAI_OBJECT_ADMIN.TRANSFER_BATCH_OWNERSHIP('SYS-  
ADMN','ECMADMN','ECMINFO');
```

end;

4.6.3.2.1 Batch Maintenance

The seeded Batches are viewed from the Batch Maintenance operation. To view this, follow these steps:

1. Navigate to Common Tasks and select Operations and click Batch Maintenance.

NOTE

If it is not visible to the Admin User, then you have to execute the steps mentioned in [Changing ICC Batch Ownership to ECM Admin from SYSADMN user](#)

2. Select the <Infodom>_ECM_SECURITY_BATCH and select the Task1. Click **Edit** from the Task Details section.
3. Modify the **Parameter List**. Seeded values are `p_create_id`.
4. For the Parameter List-Syntax is '`p_create_id`','`p_user_id`'.
 - `op_create_id`: Current Admin User who is going to execute the Batch.
 - `op_user_id`: User(s) for which the Security Attribute Mapping changed through the Security Mapper.

This can be changed in the following two ways:

- Use Case 1: If 'Parameter List', values are given as 'ECMADMN'," then Batch populates `kdd_review_owner` and its mapping tables for all the Users which are mapped through the Security Mapper where ECMADMN is the current logged in Admin User.
- Use Case 1: If 'Parameter List', values are given as 'ECMADMN','USER1,USER2', then Batch populates `kdd_review_owner` and its mapping tables for only the Users USER1 and USER2 which are mapped through the Security Mapper where ECMADMN is the current logged in Admin User.

5. Define the 'Parameter List' values, click **Save**.

4.6.3.2.2 Batch Execution

The seeded Batches are executed from the Batch Execution operation.

1. Navigate to Common Task and select Operations and then click Batch Execution. The Batch Execution window is displayed.

[User Maintenance](#)>User Definition (edit mode)

User Maintenance Save

▼ User Maintenance

| | | | |
|-----------------------------------|-------------------------------|--------------|------------|
| User ID * | ECMADMN | User Name * | ecmadmn |
| Employee Code | ECMADMN | Address | |
| Date of Birth | <input type="text"/> | Designation | |
| Profile Name * | Profile for the Administrator | Start Date * | 05/17/2018 |
| End Date * | 05/26/2022 | Password * | |
| Database authentication principal | | | |

▼ Notification Time

| | | | |
|--------------|-------|---------------|-------|
| Start | HH:MM | End | HH:MM |
| Email ID | | Mobile Number | |
| Pager Number | | | |

▼ Enable User

| | | | |
|-------------|-------------------------------------|-------------------|-------------------------------------|
| Enable User | <input checked="" type="checkbox"/> | Login on Holidays | <input checked="" type="checkbox"/> |
|-------------|-------------------------------------|-------------------|-------------------------------------|

▼ Audit Trail

| | | | |
|------------------|---------|------------------------|------------------------|
| Created By | SYSADMN | Creation Date | 05/17/2018 06:28:05 PM |
| Last Modified By | SYSADMN | Last Modification Date | 05/17/2018 06:28:05 PM |

Figure 3: Batch Execution

2. Before executing a Batch, check if the following services are running on the application server:

- ICCserver
- Router
- AM Server
- Message Server

For more information, see the [Oracle Financial Services Analytical Applications Infrastructure Guide](#).

3. The seeded batch (<Infodom>_ECM_SECURITY_BATCH) must be executed for the required MIS Date on this screen.
4. Select <Infodom>_ECM_SECURITY_BATCH and provide the Current Date in the Information Date section.
5. Click **Execute Batch**.

4.6.3.2.3 Batch Monitor/Checking the Execution Status

The status of execution can be monitored using the Batch Monitor screen.

1. Navigate to Common Task and select Operations and then click **Batch Monitor**. The Batch Monitor window is displayed.

For more information on the configuration and execution of a batch, see the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

2. Following are the status messages in Batch Monitor:
 - N: Not Started
 - O: On Going
 - F: Failure
 - S: Success
3. The execution log is accessed on the application server from the following directory: `$FIC_DB_HOME/log/date`.

The file name has the batch execution ID. After the Batch is successful, the mappings for the User(s) is reflected in `KDD_REVIEW_OWNER` and its mapping tables. The Audit is recorded in the respective Audit Tables.

4.6.3.3 Mapping Read-Only Case type

If you need Read-Only access to certain Case types, then add an entry in `KDD_REVIEW_OWNER_CSE-TYP_RDONLY` table against the Case type.

5 Pre-batch Execution Configuration

This chapter provides the details of pre-batch configuration activities.

Configure the following before executing a batch:

5.1 Step 1: Configuring Processing Group

1. Add a new entry in the `FCC_PROCESSING_GROUP` table. For example, `N_GROUP_ID` can be 100 or 104 and `V_GROUP_NAME` can be E2E BATCH ALL SOURCE or MAN. For example, E2E BATCH ALL SOURCE and MAN are the group names provided in the table `FCC_PROCESSING_GROUP`. `N_GROUP_ID` should be the next greater numeric value.

Table 14: FCC_PROCESSING_GROUP (Metadata Table)

| Column Name | Primary Key | Column Type | Nullable |
|---------------------------|-------------|--------------|----------|
| <code>N_GROUP_ID</code> | Y | NUMBER(10) | No |
| <code>V_GROUP_NAME</code> | | VARCHAR2(50) | No |

2. Configure the parameters in Process UI (under components) from the `FCC_PROCESSING_GROUP` table. For example:

"MAN", "", "ALL", "START", "IND"

This is required to indicate the name of the Group for which processes are executing. Here, MAN is the Group Name.

For more information, see the [Start Batch Run](#) section.

When the Start Batch run is executed, it loads the data into the `FCC_BATCH_RUN` table.

5.2 Step 2: Configuring Correlation

Note: From ECM 8.0.7.0.0 onwards, the default correlation is PGX.

PGX correlation does the same job as JAVA/SQL correlation (BD_Correlation) do, but further drill down approach. It helps us to identify all the relationships between the entities and present it in a graph.

If you want to use **BD_Correlation** process, then follow the below steps:

1. Remove the PGX Process.
2. Add the **BD_Correlation** process. Refer to below screenshot.
3. Trigger the batch.

| Location | Infocoin | Code | Name | Type | Simulation Job | Use Descendants |
|----------|-----------|----------------------------|--|---------|----------------|-----------------|
| Job | EOMNF0335 | ED_ECM_Start_EZE_Batch | Oracle Behavior Detect on ECM Start EZE ... | Process | | |
| Job | EOMNF0335 | ED_Load_From_LA_To_CA | Loading From Landing Area to Consolidati... | Process | | |
| Job | EOMNF0335 | ED_SUPPLVTRYINFO | ECM Supplementary Information | Process | | |
| Job | EOMNF0335 | ED_Correlation | Oracle Behavior Detect on Events Correlat... | Process | | |
| Job | EOMNF0335 | ED_SCORING | Oracle Behavior Detect on Scoring of Eve... | Process | | |
| Job | EOMNF0335 | ED_Promote_To_Case_Deds... | Oracle Behavior Detect on Decision For M... | Process | | |
| Job | EOMNF0335 | ED_Create_Case | Oracle Behavior Detect on Generate Cases | Process | | |

1. Initiating Correlation

Before executing the batch, trigger the shell file (`initiateCorrelation.sh`) to load all query definitions. This shell script must be run if there are changes in query definitions or in paths defined for correlation.

To initiate the correlation, follow these steps:

- Navigate to `$FIC_HOME/ficdb/bin`.
- Execute `initiateCorrelation.sh`. This populates the data in business entity path tables (`FCC_CORR_BUS_ENTITY_PATH` and `FCC_CORRELATION_BUS_ENTITY_CFG`). For more information, see the [Using Business Entity Paths](#) section.

2. Configuring Correlation Rules

After events are correlated to business entities, the event-to-business entity relationships are used to correlate events to each other. Events are grouped into a correlation if they share common business entities, and if they meet the criteria defined in the Event Correlation Rules. The logic of an Event Correlation Rule is defined in the `FCC_CORRELATION_RULE` table.

The following is an example of the rule logic defined in the `FCC_CORRELATION_RULE` table:

Table 15: FCC_CORRELATION_RULE

| Column Name | Primary Key | Column Type | Nullable |
|-----------------------------|-------------|--------------|----------|
| N_CORRELATION_RULE_SKEY | Y | NUMBER(10) | No |
| V_RULE_NAME | | VARCHAR2(50) | No |
| N_PATH_PRECEDENCE | | NUMBER | No |
| V_EVENT_FILTER_OPERATIONS | | VARCHAR2 | Yes |
| V_EVENT_LINK_OPERATIONS | | VARCHAR2 | Yes |
| N_LOOKBACK_VALUE | | NUMBER(10) | Yes |
| V_LOOKBACK_UNIT | | VARCHAR2(50) | Yes |
| F_EXTEND_FLAG | | VARCHAR2 | No |
| V_CASE_STATUS | | VARCHAR2 | No |
| V_STATUS | | VARCHAR2 | No |
| F_CORRELATION_REQUIRED_FLAG | | VARCHAR2 | No |
| F_LOOKBACK_PROCESS_IND | | NUMBER | Yes |
| V_CASE_TITLE_RULE | | VARCHAR2 | Yes |

- **N_CORRELATION_RULE_SKEY (required):** This is the correlation rule unique Identification number.
- **V_RULE_NAME (required):** Defines the name of the correlation rule.
- **N_PATH_PRECEDENCE (required):** Number indicating the maximum precedence value that a business entity shared between events must have to be considered a correlation by this rule. The lower the precedence number the stronger the relationship. Events are not considered for the correlation unless the precedence number associated with the business entity-to-event is less than or equal to (\leq) the value defined.
- **V_EVENT_FILTER_OPERATIONS and V_EVENT_LINK_OPERATIONS (optional):** Defines operations used to further constrain the events to be used for correlation. An operation consists of an event attribute compared to a numerical value, such as *from event* and *to event* which can be correlated if they both have `SCORE_CT >= 0`, represented by `CORR.SCORE_CT >= 0`, or a *from event* and *to event* which can be correlated if `CORR._CT > 2`. The set of supported comparison operators are: `=`, `!=`, `<`, `>`, `<=`, `>=`, `IN`, and `NOT IN`.
- Because the `SCNRO_ID` attribute of both events and correlations can potentially have multiple values, only the `IN` and `NOT IN` operators should be used in expressions involving `SCNRO_ID`. The rest of the operators can only support single value operands. Also, there should be no space in the scenario ID list specified. For example, `BOTH.SCNRO_ID IN (115600002,114690101)`.
- Multiple operations can be joined together by logical `AND` and `OR` operators and operation precedence can be defined with parentheses.

- **N_LOOKBACK_VALUE** (*optional*): The *number* attribute indicates the number of days to look back from the current date/time to create a time window to consider events for correlation. This is a created timestamp of the event.

If the lookback value is defined, then the lookback unit is also required.
- **V_LOOKBACK_UNIT** (*required*): The *unit* attribute identifies the unit of the look back number. Possible values are D and CM for days and current month, respectively. All of these require a valid number value except for CM, which essentially makes the look back to the first of the current month, such as if the current date is October 14, we will look back to October 1 if the CM unit is selected. The created timestamp of the event is used to determine whether or not an event falls within the lookback period.

Do not use a unitless granular than a day in rules intended for batch events.
- **F_EXTEND_FLAG** (*required*): Defines the conditions for extending existing correlations. When a new correlation is discovered, it may be a superset (with only the triggering event not already included in the existing correlation) of a correlation that is previously identified. **F_EXTEND_FLAG** defines whether this correlation rule can result in extending an existing correlation. If this is set to FALSE (do not extend) then a new correlation is created when this condition is identified. If **F_EXTEND_FLAG** is set to TRUE then the existing correlation is added to unless it is already promoted to a case that has a status identified in the **V_CASE_STATUS** tags of `NonExtendableCaseStatuses`.
- **F_CORRELATION_REQUIRED_FLAG** (*required*): Defines the conditions for correlation required. You can set this as Y or N. If this is set to N, then every event is self linked and promoted to the case. If this is set to Y, then multiple events are linked if they have a common business entity and are promoted to the case.
- **F_LOOKBACK_PROCESS_IND** (*required*): Indicates if the date of look back is event processing date or sysdate. If this is set to 1, then the processing date is picked. If this is set to 0, then the event created date is picked.
- **V_STATUS** (*required*): Defines the status of the correlation rule. By default, the correlation rule is *Active*.
 - To deactivate a correlation rule, modify the **V_STATUS** value to INACT.
 - To activate a correlation rule, modify the **V_STATUS** value to ACT.Changes made to the metadata are effective immediately and are utilized the next time correlation is run.
- **V_CASE_TITLE_RULE**: This is used for defining the title of the case.

5.3 Step 3: Configuring Ending Batch Process

1. Before ending a batch, configure the parameters in Process UI (under components). For example, configure the following parameters in Process UI (under components):

""; ""; "ALL"; "END"; ""

For more information, see the [Ending a Batch Run](#) section.

6 Performing Batch Run

This chapter provides the details of the ECM batch run. This chapter includes the following sections:

- [About Batch Run](#)
- [Starting a Batch Run](#)
- [Ending a Batch Run](#)
- [Executing a Batch Run](#)

6.1 About Batch Run

The ECM application batch run comprises of the following processes:

- Start ECM batch
- Load events, evented, and business data to Consolidation area
- Correlation
- Scoring
- Promote to case
- Create a case
- End ECM batch

NOTE Users should configure their own batches and default OOB should not be run as it is a sample run.

6.2 Starting a Batch Run

NOTE For executing a batch, you cannot start two batches simultaneously for the same processing group.

This section explains how to start the batch run.

To start the batch run, follow these steps:

1. Navigate to Enterprise Case Management Application.
2. Go to the Common task section. Select the **Run Rule Framework**.
3. Click **Run**. The Run window is displayed with the available Processes.

| Code | Name | Type | Folder | Version | Active |
|-------------------------------|---|----------|-----------|---------|--------|
| Oracle_BD_Event_Processing | Oracle Behavior Detection Event Processing in ECM | Base Run | ECMSEGMNT | 0 | Yes |
| Oracle_CS_Event_Processing | Oracle CS Event Processing | Base Run | ECMSEGMNT | 0 | Yes |
| Oracle_FATCA_Event_Processing | Oracle FATCA Event Processing | Base Run | ECMSEGMNT | 0 | Yes |
| Oracle_KYC_Event_Processing | Oracle KYC Event Processing | Base Run | ECMSEGMNT | 0 | Yes |
| Oracle_STDO_Event_Processing | Oracle Studio Event Processing | Base Run | ECMSEGMNT | 0 | Yes |
| Oracle_TBAML_Event_Processing | Trade Based Anti Money Laundering Event Processing in ECM | Base Run | ECMSEGMNT | 0 | Yes |
| Third_Party_Event_Processing | Third Party Event Processing in ECM | Base Run | ECMSEGMNT | 0 | Yes |
| Third_Party_Event_Proc_CS | Third Party Event Processing in ECM for CS | Base Run | ECMSEGMNT | 0 | Yes |

Figure 4: Application List

- Go to the List section. Select an application for example (Oracle_BD_Event_Processing). The list of processes for the selected application is displayed.

| Location | Infodom | Code | Name | Type | Simulation Job | Use Descendants |
|----------|---------|-----------------------------|---|---------|----------------|-----------------|
| Job | ECMINFO | BD_ECM_Start_E2E_Batch | Oracle Behavior Detection ECM Start E2E ... | Process | | |
| Job | ECMINFO | BD_Load_From_LA_To_CA | Loading from Landing Area to Consolidati... | Process | | |
| Job | ECMINFO | BD_Correlation | Oracle Behavior Detection Events Correla... | Process | | |
| Job | ECMINFO | BD_SCORING | Oracle Behavior Detection Scoring of Eve... | Process | | |
| Job | ECMINFO | BD_Promote_To_Case_Decis... | Oracle Behavior Detection Decision For M... | Process | | |
| Job | ECMINFO | BD_Create_Case | Oracle Behavior Detection Generate Cases | Process | | |
| Job | ECMINFO | BD_ECM_End_E2E_Batch | Oracle Behavior Detection ECM End E2E Ba... | Process | | |

Figure 5: List of Processes

- Navigate to Process Summary Page and search for BD_ECM_Start_E2E_Batch.
- Select the batch BD_ECM_Start_E2E_Batch and click **Edit**.

Process

Code: BD_ECM_Start_E2E_Batch Version: 0

Name: Active: Yes

Folder:

| <input type="checkbox"/> | Code | Name | Folder | Version | Active |
|-------------------------------------|------------------------|---|-----------|---------|--------|
| <input checked="" type="checkbox"/> | BD_ECM_Start_E2E_Batch | Oracle Behavior Detection ECM Start E2E Batch | ECMSEGMNT | 0 | Yes |

Page 1 of 1 (1-15 of 1 items) Records Per Page 1

7. The Process Definition page is displayed.

Process

Process Definition(Edit Mode)

Linked to

Folder: ECMSEGMNT

Master Information Properties

ID: 1504511534788 Version: 0

Code: BD_ECM_Start_E2E_Batch Active: Yes

Name: Oracle Behavior Detection ECM Start E Type: Process Tree

Executable: Route Execution to High Precedence Node:

| <input checked="" type="checkbox"/> | Object | Precedence | Type | Parameter | Executable |
|-------------------------------------|-----------------|------------|---------------------|-----------------------------|------------|
| <input checked="" type="checkbox"/> | F_FCC_BATCH_RUN | | Data Transformation | "MAN";";"ALL";"START";"DLY" | |

8. Click **Component**. The Component Selector window is displayed.

9. Click **Parameters** option. The Parameters window is displayed.

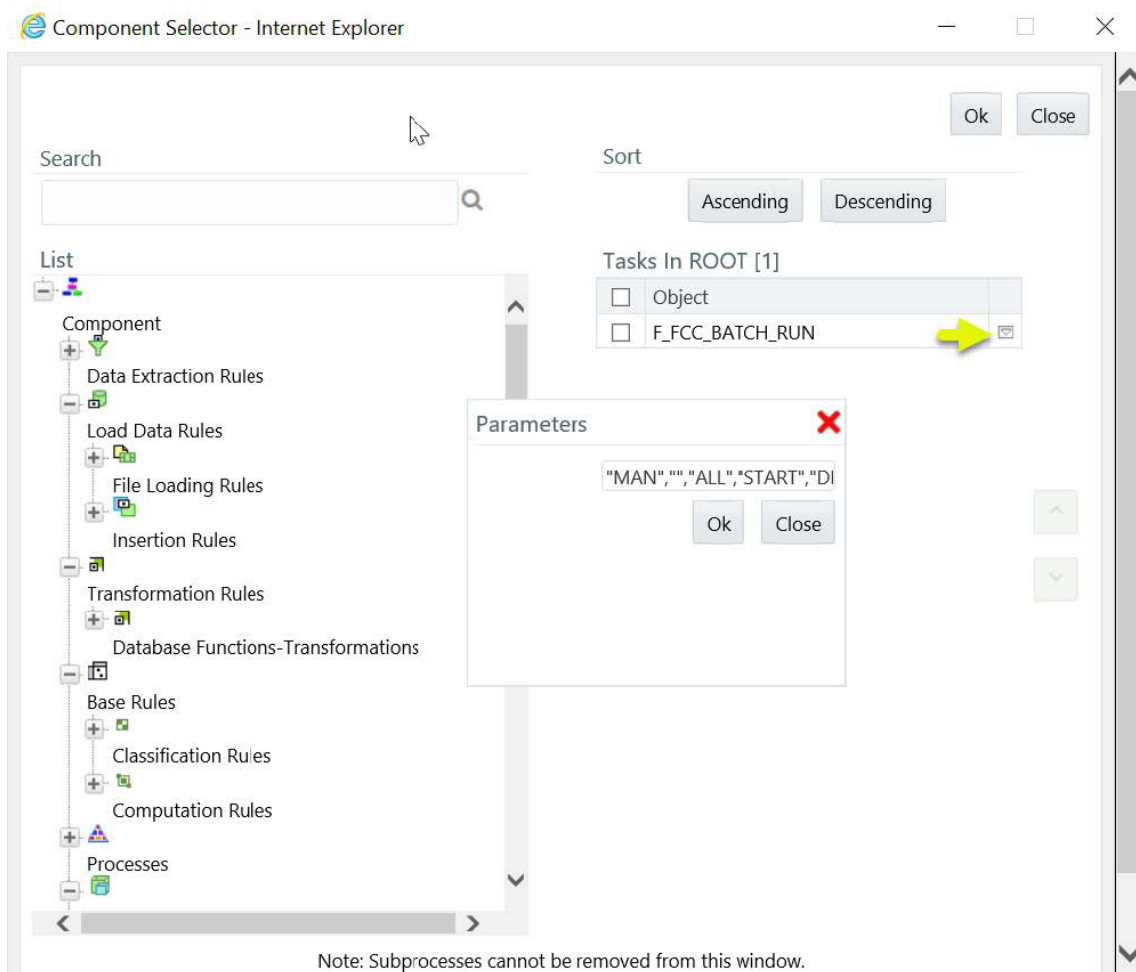


Figure 6: Parameters

10. The following are default parameters:

"MAN";";";"ALL";"START";"DLY"

- **MAN:** is the group name. Modify the name of the group as mentioned in FCC_PROCESSING_GROUP table. For example, E2E BATCH ALL SOURCE
- **""** Source Batch for Correlation
- **ALL:** is the component that can be modified if required
- **START:** is used to start the batch
- **DLY:** is Data Origin

11. The following is an example of a parameter

"E2E BATCH ALL SOURCE";";";"ALL";"START";"IND"

12. Modify the parameters and click **OK**.

6.3 Ending a Batch Run

This section explains how to end the batch run.

To end the batch run, follow these steps:

1. Navigate to the Process Summary page and search for End Batch, for example, `BD_ECM_End_E2E`.

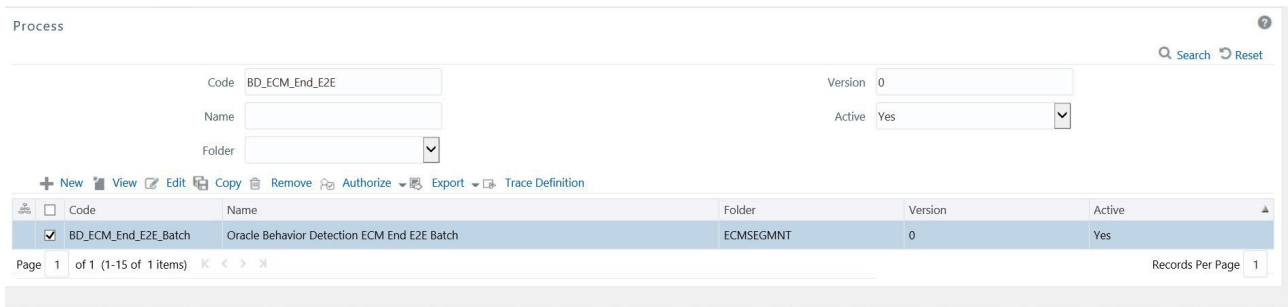


Figure 7: Application Batch List

2. Click **Edit**. The Process Definition page is displayed.
3. Click **Component**. The Component Selector window is displayed.
4. Click **Parameters** option. The Parameters window is displayed. Following are default parameters:
5. The following are default parameters:
 - `"" , "" , "ALL" , "END" , ""`
 - Source Batch for Correlation
 - **ALL**: is component. Modify the component if required
 - **END**: is used to end the batch
6. Modify the parameters and click **OK**.

6.4 Executing a Batch Run

This section explains how to execute the batch run.

NOTE If you have 10 days of data, then the ECM batch has to be executed from day-01 onwards.

To access and execute the batch run, follow these steps:

1. Navigate to Enterprise Case Management Application.
2. Go to the Common task section. Select the **Run Rule Framework**.
3. Click **Run**. The Run window is displayed with the available Processes.
4. Select the Application process from the Run definition page list that is to be executed and click **Fire Run**. The Fire Run window is displayed.

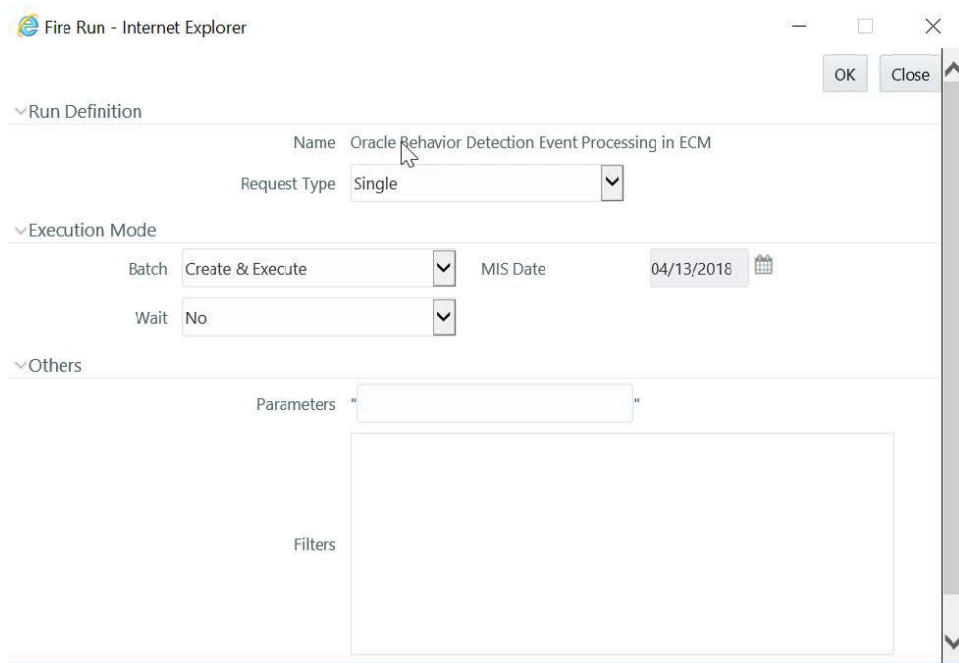


Figure 8: Fire Run

5. Enter the following details:

Table 16: Adding Fire Run Details

| Fields | Description |
|--------------|--|
| Request Type | Select Request Type based on the following options: <ul style="list-style-type: none"> • Single: If the batch must be executed once. • Multiple: If the batch must be executed multiple times at different intervals. |
| Batch | Select Batch. It has the following options: <ul style="list-style-type: none"> • Create • Create & Execute From these options, select Create & Execute |
| Wait | Select Wait. It has the following options: <ul style="list-style-type: none"> • Yes: This executes the batch after a certain duration. Enter the duration as required. • No: This executes the batch immediately. |
| Filters | Enter the filter details. Note: \$MISDATE option can be used to execute the run for that particular day. The format for it to enter the filter details is: to_date (<ACTIVITY_TABLE_NAME>.<ACTIVITY_DT_COL>)=\$MISDATE Note: For \$MISDATE option: <ul style="list-style-type: none"> • For either Date or Timestamp datatypes, to_date is mandatory for the filter. • Activity Table Name and Activity Column Name should be in the capital. |

6. Click **OK** to run the batch. The following message is displayed: *Batch Execution is in progress.*

NOTE

If batch execution fails, then see the batch details in Batch Monitor. For more information on Batch Monitor, see the *Oracle Financial Services Analytical Applications Infrastructure User Guide*

7. Once the batch is triggered, the following processes get executed:
 1. Start ECM batch, select the required process code. For example, BD_ECM_Start_E2E_Batch. For more information on starting the batch, see [Starting a Batch Run](#).
 2. Load events, evented, and business data to the Consolidation area, select the required process code. For example, BD_Load_From_LA_To_CA. For more information on using this connector, see [Loading Data](#)
 3. Perform correlation on loaded events and select the required process code. For example, BD_Correlation. For more information on using correlation, see [Configuring Correlation](#).
 4. Perform scoring on correlated events and select the required process code. For example, BD_SCORING. For more information on using scoring, see [Scoring](#).
 5. Determine to promote correlated events to a case and select the required process code. For example, BD_Promote_To_Case_Decision. For more information on using promote to case, see [Promoting to Case](#).
 6. Create a case event and select the required process code. For example, BD_Create_Case.
 7. End ECM batch and select the required process code. For example, BD_ECM_End_E2E_Batch. For more information on running the batch, see [Ending a Batch Run](#).
 8. The following table provides you the complete details of Applications and related processes.

Table 17: Application Run processes

| Process | Applications and Process Name | | | | | | |
|--|-------------------------------|------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------|
| | OBD | OCS | OFATCA | OKYC | OTBAML | OSTDO | Third-party |
| Start ECM batch | BD_EC-M_Start_E2E_Batch | ECM_Start_E2E_Batch_For_CS | ECM_Start_E2E_Batch_For_FATCA | ECM Start E2E Batch For KYC | TBAML_EC-M_Start_E2E_Batch | STDO_EC-M_Start_E2E_Batch | ECM Start E2E Batch |
| To load events, evented, and business data to Consolidation area | BD_Load_From_LA_To_CA | Load_From_CS_To_CA | Load_From_FATCA_To_CA | Load_From_OKYC_To_CA | TBAML_Load_From_LA_To_CA | STDO_Load_From_LA_To_CA | Load_From_LA_To_CA |
| Perform correlation on loaded events | BD_Correlation | Correlation | Correlation | Correlation | TBAML_Correlation | STDO_Correlation | Correlation |
| Perform scoring on correlated events | BD_SCORING | Scoring_OCS | Scoring_FATCA | Scoring_OKYC | TBAML_SCORING | STDO_SCORING | Scoring |
| Decision to promote correlated events to a case | BD_Promote_To_Case_Decision | Promote_To_Case_Decision_OCS | Promote_To_Case_Decision_FATCA | Promote_To_Case_Decision_OKYC | TBAML_Promote_To_Case_Decision | STDO_Promote_To_Case_Decision | Promote_To_Case_Decision |
| Create a case | BD_Create_Case | Create_Case | FATCA_Create_Case | Create_Case | TBAML_Create_Case | STDO_Create_Case | Create_Case |
| End ECM batch | BD_EC-M_End_E2E_Batch | ECM_End_E2E_Batch_For_CS | ECM_End_E2E_Batch_For_FATCA | ECM_End_E2E_Batch_For_KYC | TBAML_EC-M_End_E2E_Batch | STDO_EC-M_End_E2E_Batch | ECM_End_E2E_Batch |

7 Loading Data

This chapter provides the details of loading the data from different sources in the ECM. The following sections are covered in this chapter:

- [About Loading Data](#)
- [Using Connectors](#)
- [Data Movement \(DM\) Utility](#)
- [Configuring Data Movement from LA to CA](#)

7.1 About Loading Data

Data is loaded from the landing area to the consolidated area in the ECM using processors and they are called connectors. The connector processes are used to bring the data from different sources such as Oracle Behavior Detection (OBD), Oracle Know Your Customer (OKYC), Oracle Customer Screening (OCS), and third-party application to the ECM. These connectors are used for event processing.

NOTE:

- You must manage all FCC_* tables retention as per your business needs. For more details about the same, contact [Oracle Support](#).
- ECM does not support Multi-Match alerts.

7.1.1 Types of Connectors

The following are the sample connector types available in the ECM:

- OBD
- OKYC
- OCS
- OSTDO
- Third-party
- FATCA
- TBAML

7.2 Using Connectors

This section describes how to use connector processes for different applications in the ECM. The following sections are covered in this topic:

- [Accessing Connector Processes](#)
- [Loading OBD Data](#)
- [Loading OCS Data](#)
- [Loading FATCA Data](#)
- [Loading KYC Data](#)
- [Loading Studio Data](#)
- [Loading Third-party Connector Data](#)

7.2.1 Accessing Connector Processes

This section explains how to access different application connectors list in the Run window.

To access connectors, follow these steps:

1. Navigate to Enterprise Case Management Application.
2. Go to the Common task section. Select the **Run Rule Framework**.
3. Click **Run**. The Run window is displayed.

7.2.2 Loading OBD Data

The OBD connectors are used to load data from the BD application to the ECM.

To load data from the OBD to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Oracle_BD_Event_Processing**. The list of processes for OBD is displayed.

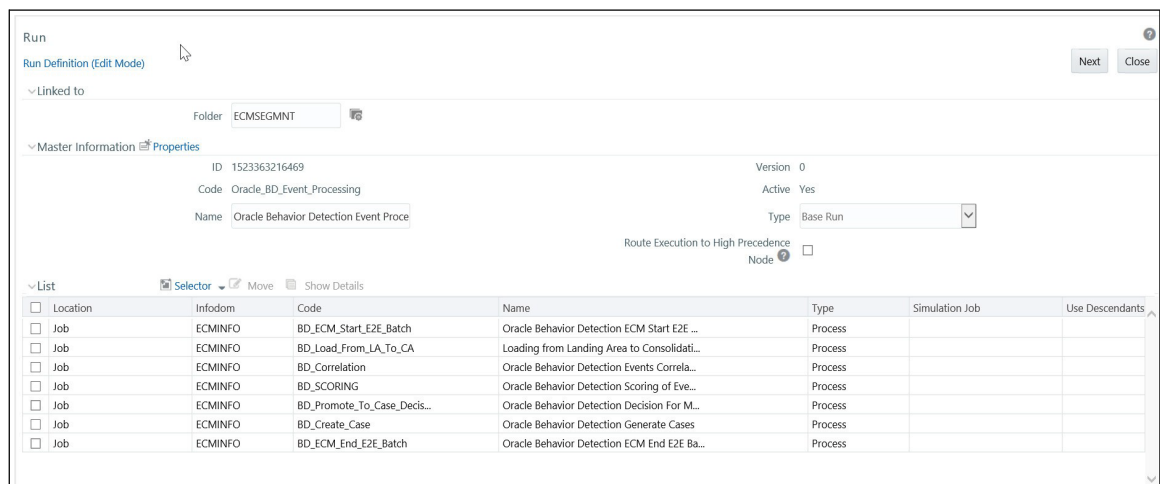


Figure 9: BD Processes

3. Select **BD_Load_From_LA_To_CA** (connector) process from the list. This has the following four sub-processes:
 - Loading BD Events
 - Entity Surrogate Key Generation for BD
 - Oracle Behavior Detection Evented Data Load
 - Oracle Behavior Detection Business Data Load

For more information on processes and tasks, see [List of Processes and Tasks](#).

For more information on Configuring Data Movement from LA to CA, see the [Configuring Data Movement from LA to CA](#).

7.2.3 Loading OCS Data

The OCS connectors are used to load data from the CS application to the ECM.

To load data from the OCS to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Oracle_CS_Event_Processing**. The list of processes for OCS is displayed.

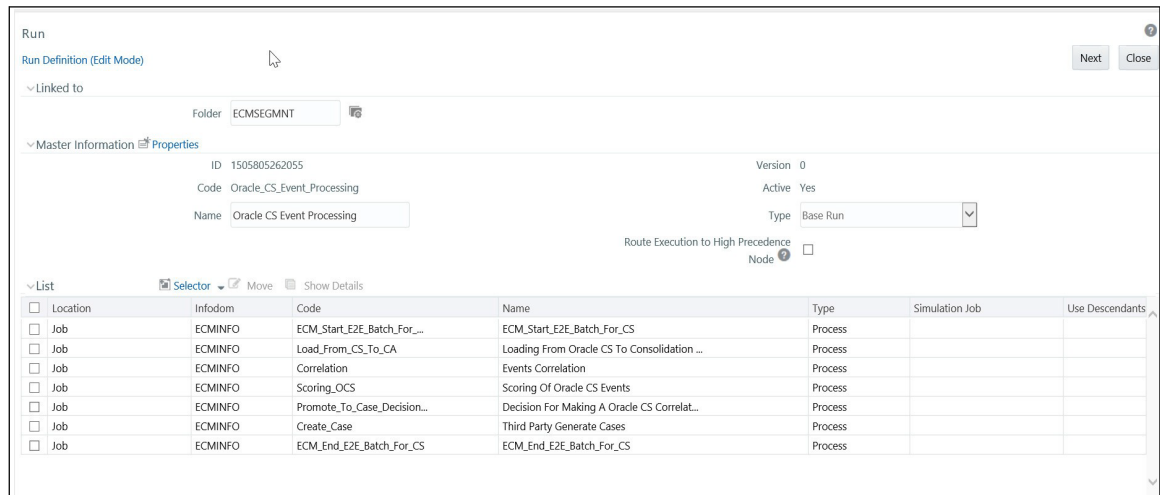


Figure 10: OCS Connector

3. Select **Load_From_CS_To_CA** (connector) process from the list. This has the following four sub-processes:
 - Loading Oracle CS Event
 - Entity Surrogate Key Generation For Oracle CS
 - Evented Data Load for CS
 - Business Data Load for CS

For more information on processes and tasks, see [List of Processes and Tasks](#).

For more information on Configuring Data Movement from LA to CA, see the [Configuring Data Movement from LA to CA](#).

7.2.4 Loading FATCA Data

The FATCA connectors are used to load data from the FATCA application to the ECM.

To load data from the FATCA to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Oracle_FATCA_Event_Processing**. The list of processes for FATCA is displayed.

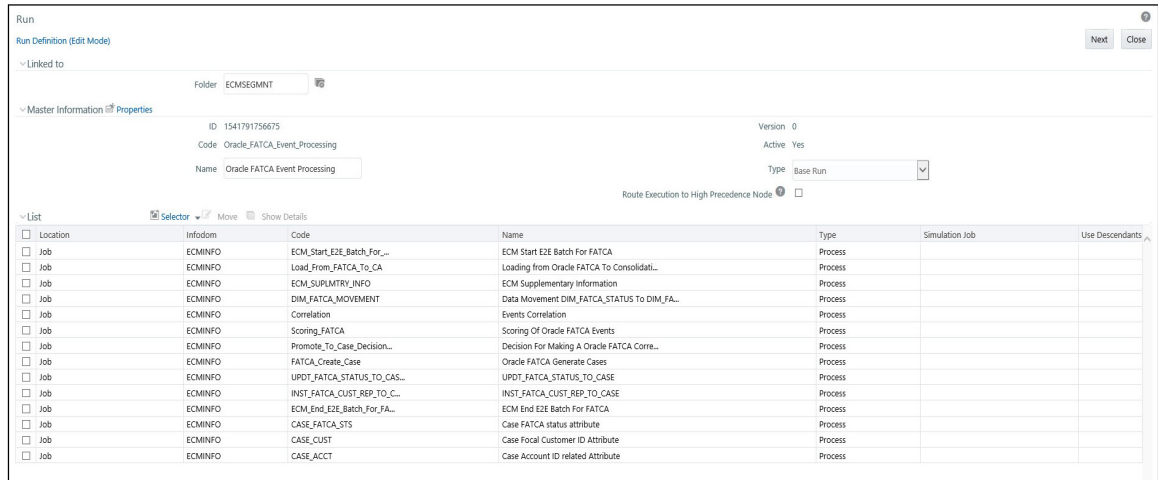


Figure 11: FATCA Connector

3. Select **Load_From_FATCA_To_CA** (connector) process from the list. This has the following four sub-processes:
 - Loading Oracle FATCA Events to Consolidation area
 - Entity Surrogate Key Generation For Oracle FATCA (to be executed after Loading Oracle FATCA Events sub-process.)
 - Evented Data Load for FATCA
 - Business Data Load for FATCA

For more information on processes and tasks, see [List of Processes and Tasks](#).

For more information on Configuring Data Movement from LA to CA, see the [Configuring Data Movement from LA to CA](#)

7.2.5 Loading KYC Data

The OKYC connectors are used to load data from the KYC application to the ECM.

To load data from the OKYC to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Oracle_KYC_Event_Processing**. The list of processes for OKYC is displayed.

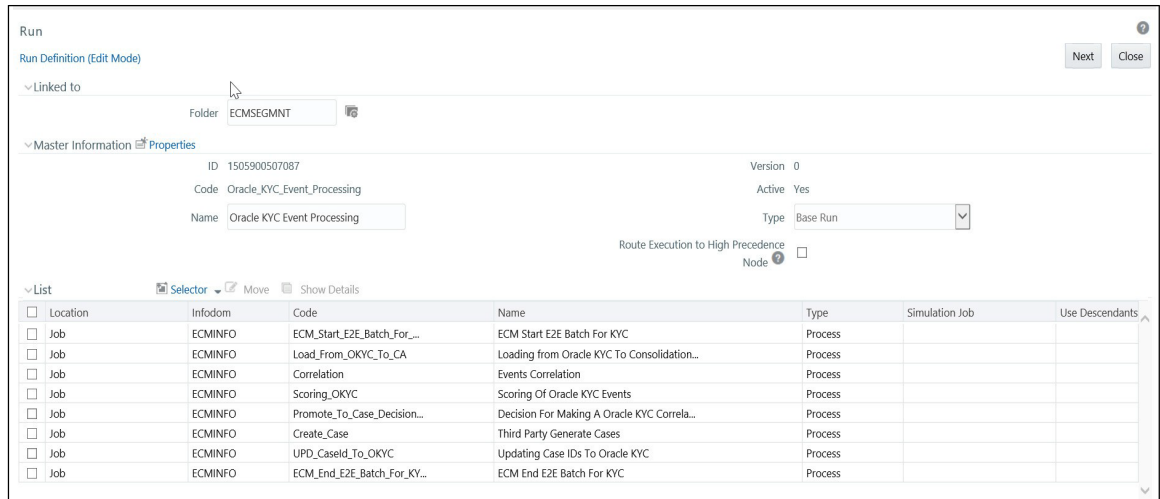


Figure 12: OKYC Connector

3. Select **Load_From_OKYC_To_CA** (connector) process from the list. This has the following four sub-processes:
 - Loading Oracle KYC Events to Consolidation area
 - Entity Surrogate Key Generation For Oracle KYC (to be executed after Loading Oracle KYC Events sub-process.)
 - Evented Data Load for KYC
 - Business Data Load for KYC

For more information on processes and tasks, see [List of Processes and Tasks](#).

For more information on Configuring Data Movement from LA to CA, see the [Configuring Data Movement from LA to CA](#)

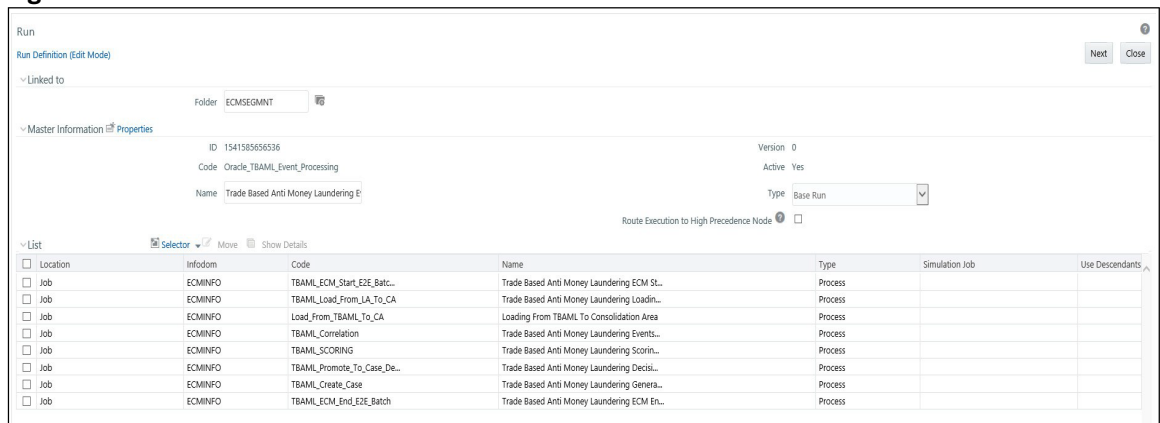
7.2.6 Loading TBAML Data

The TBAML connectors are used to load data from the TBAML application to the ECM.

To load data from the TBAML to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Oracle_TBAML_Event_Processing**. The list of processes for TBAML is displayed.

Figure 13: TBAML Connector



3. Select **Load_From_TBAML_To_CA** (connector) process from the list. This has the following four sub-processes:
 - Loading Oracle TBAML Events to Consolidation area
 - Entity Surrogate Key Generation For Oracle TBAML (to be executed after Loading Oracle TBAML Events sub-process.)
 - Evented Data Load for TBAML

For more information on processes and tasks, see [List of Processes and Tasks](#).

For more information on Configuring Data Movement from LA to CA, see the [Configuring Data Movement from LA to CA](#)

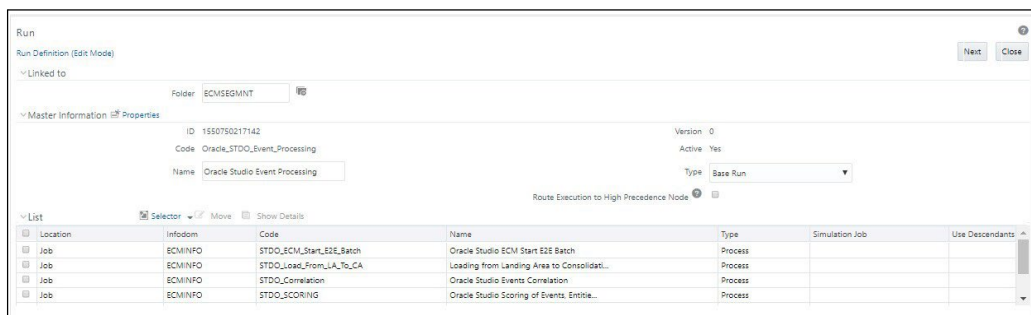
7.2.7 Loading Studio Data

The STDO connectors are used to load data from the Studio application to the ECM.

To load data from the Studio to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Oracle_STDO_Event_Processing**. The list of processes for Studio is displayed.

Figure 14: Studio Connector



3. Select **STDO_Load_From_LA_To_CA** (connector) process from the list. This has the following four sub-processes:
 - Loading Studio Events
 - Entity Surrogate Key Generation for Studio
 - Oracle Studio Business Data Load
 - Studio Supplementary Information
 - Oracle Studio Evented Data Load

7.2.8 Loading Third-party Connector Data

Third-party connectors are used to load data from the third-party application to the ECM.

To load data from the Third-party to the ECM, follow these steps:

1. Navigate to the Run window.
2. Go to the List section. Select **Third_Party_Event_Processing**. The list of processes for the Third-party is displayed.

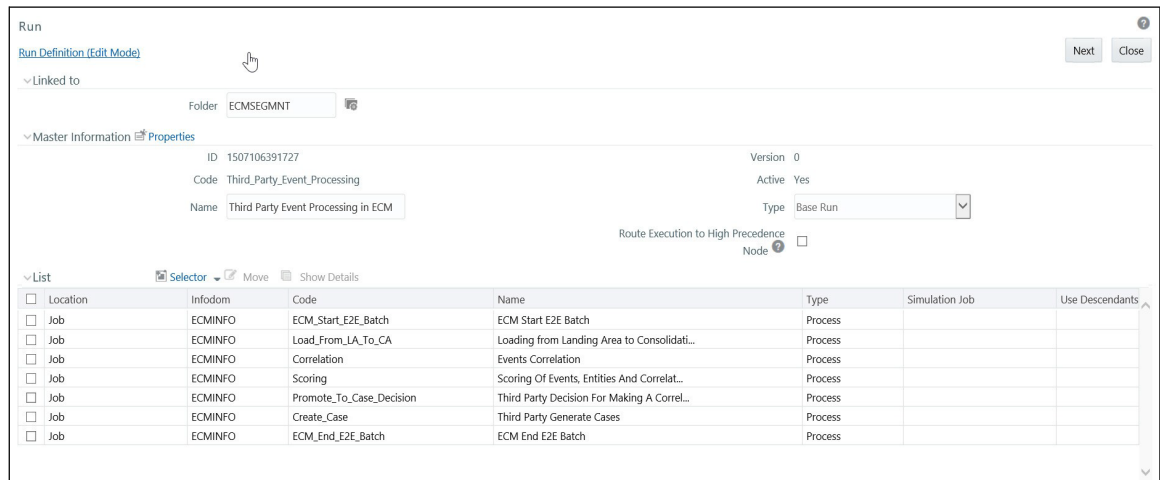


Figure 15: Third-party Connector

3. Select **Load_From_LA_To_CA** (connector) process from the list. This has the following four sub-processes.
 - Loading Events to Consolidation area
 - Entity Surrogate Key Generation (to be executed after Loading Events sub-process.)
 - Evented Data Load
 - Business Data Load
 - Derive Wire, Cash and MI Transaction

For more information on processes and tasks, see [List of Processes and Tasks](#).

For more information on Configuring Data Movement from LA to CA, see the [Configuring Data Movement from LA to CA](#)

7.3 Data Movement (DM) Utility

It is used to transfer data from one Oracle data source to another Oracle data source. This utility can be used for moving the data from the landing area to the consolidation area. And, then consolidation area to UI (KDD Case tables, example KDD_CASE_CUSTOMER, KDD_CASE_ACCOUNT, and so on).

- Data movement across the source and target tables residing in two different databases. For example, the source table on database1 and target table on database2.
- Data movement across the source and target tables residing in two different schema in the same database. For example, source table on schema1.table1 and target table on schema2.table2.
- Data movement across the source and target tables residing in the schema in the same database. For example, source table on schema1.table1 and target table on schema1.table2.

The following data transfer modes are available:

- **DI:** In this mode, the Utility fetches the data from the source table/s based on the metadata available in the `FCC_DM_DEFINITION` and `FCC_DM_MAPPING` tables. Data is removed from the target is based on its PK/UK. Then the data is moved into the source table.
- **IS:** In this mode, Utility inserts the data from the selected table of the source to target.
- **MI:** In this mode, Utility performs insert or update operations. If data is not available in the target table, then Insert operation is performed. If data is available in the target table, then Update operation is performed.

7.3.1 DM Metadata Tables

- `FCC_DM_DEFINITION`: Stores the definition of SQL conditions that is used to fetch the data from the source database

The structure of the DM definition table is as follows:

Table 18: FCC_DM_DEFINITION (Metadata Table)

| Column Name | Primary Key | Column Type | Nullable |
|-------------------|-------------|----------------|----------|
| DM_GROUP_ID | * | NUMBER(10) | No |
| DM_ID | | NUMBER(10) | No |
| DM_CODE | | VARCHAR2(100) | Yes |
| DM_DESCRIPTION | | VARCHAR2(4000) | Yes |
| V_SOURCE_DATASET | | CLOB | Yes |
| V_TARGET | | VARCHAR2(30) | Yes |
| V_SRC_FILTER | | VARCHAR2(4000) | Yes |
| V_TARG_FILTER | | VARCHAR2(4000) | Yes |
| V_TARGET_DATASET | | CLOB | Yes |
| V_SELECT_HINT | | VARCHAR2(500) | Yes |
| V_PARALLEL_DEGREE | | VARCHAR2(3) | Yes |

- **DM_GROUP_ID:** grouping code of DM definition. DM definitions can be grouped to pull the data together.
- **DM_ID:** unique identification ID of DM definition.
- **DM_CODE:** unique name of DM definition.
- **DM_DESCRIPTION:** description of DM definition.
- **V_SOURCE_DATASET:** name of the Source table. It can contain the join conditions with multiple source tables and conditions associated with it. All source tables must be put under the curly bracket '{'. For example: {EMP_PHON}
- **V_TARGET:** name of Target table.
- **V_SRC_FILTER:** source filter that contains the filter condition for the source database. For example,

```
EMP_PHON.DATA_DUMP_DT = $MISDATE AND EMP_PHON.PRC_SNG_BATCH_NM IN (SELECT
FCC_BATCH_DATAORIGIN.V_DATA_ORIGIN FROM FCC_BATCH_DATAORIGIN WHERE
FCC_BATCH_DATAORIGIN.N_RUN_SKEY = $RUNSKEY)
```
- **V_TARG_FILTER:** filter condition in the target database.
- **V_TARGET_DATASET:** contains the join condition with multiple target tables and filter condition associated with it.

For example,

```
INNER JOIN FCC_EMPLOYEE_LOOKUP ON FCC_EMPLOYEE_LOOKUP.EMP_INTRL_ID = [EMP_
PHON].EMP_INTRL_ID
```

The following is an example:

Table 1.

| DM_GRO UP_ID | DM_ ID | DM_COD E | DM_- DESCR IPTION | V_SOURC E_DATA- SET | V_TA RGET | V_SRC_FILTER | V_TA RG_- FIL- TER | V TAR- GET DATA- SET |
|-----------------|-----------|-----------------|--|---------------------------|--------------|--|-----------------------------|--|
| 1 | 1 | BD_EMP _PHON | T2T_F- CCM_P ROD_E MP_- PHON | {EMP_- PHON} | | EMP_- PHON.DATA_DUMP_DT = \$MISDATE AND EMP_- PHON.PRC_SNG_BATCH_ NM IN (SELECT FCC_BATCH_DATAORI- GIN.V_DATA_ORIGIN FROM FCC_BATCH_- DATAORIGIN WHERE FCC_BATCH_DATAORI- GIN.N_RUN_SKEY = \$RUNSKEY) | | INNER JOIN FCC_EM- PLOYEE_- LOOKUP ON FCC_EM- PLOYEE_- LOOKUP.E MP_IN- TRL_ID = [EMP_- PHON].EMP _INTRL_ID |

- **FCC_DM_FIELD_MAPPING:** stores the field-to-field mapping details of data from the source to the target table.

The structure of the DM field mapping table is as follows:

Table 19: FCC_DM_Field_Mapping (Metadata table)

| Column Name | Primary Key | Column Type | Nullable |
|----------------------|-------------|----------------|----------|
| DM_ID | * | NUMBER(10) | No |
| V_ENTITY_NAME | | VARCHAR2(50) | Yes |
| V_FIELD_NAME | | VARCHAR2(50) | Yes |
| V_SRC_DATA_TYPE | | VARCHAR2(50) | Yes |
| V_FIELD_FORMAT | | VARCHAR2(50) | Yes |
| F_IS_NULL_ALLOWED | | CHAR(1) | Yes |
| V_SQL_EXPRESSION | | VARCHAR2(4000) | Yes |
| V_TARGET_ENTITY_NAME | | VARCHAR2(30) | Yes |
| V_TARGET_FIELD_NAME | | VARCHAR2(50) | Yes |
| V_SQL_FUNCTION | | VARCHAR2(500) | Yes |
| V_NULL_IF | | VARCHAR2(50) | Yes |
| V_DEFAULT_IF | | VARCHAR2(50) | Yes |
| V_TARG_DATA_TYPE | | VARCHAR2(50) | Yes |
| V_EXECUTION_SPACE | | VARCHAR2(5) | Yes |

- DM_ID: DM ID from FCC_DM_DEFINITION table.
- V_ENTITY_NAME: Name of Source table.

NOTE It can contain expression and target table if source value is populating from any SQL expression or a particular column from target table.

Example: EXPRESSION, CM_EMP_SEQ.NEXTVAL

- V_FIELD_NAME: Name of Source field.

NOTE It can contain target field name if the value is coming from the target table.

- V_SRC_DATA_TYPE: Data type of Source field.
- V_FIELD_FORMAT: Data type format of the source field. Example: mm-dd-yyyy
- F_IS_NULL_ALLOWED: Set this flag as yes if is Null allowed.
- V_SQL_EXPRESSION: Type of SQL expression.

For example, Case statement, Sequences, and so on. It can contain direct variable from the application interface, for example, \$MISDATE (MIS date passed from the external interface for source filter)

- V_TARGET_ENTITY_NAME: Name of Target table
- V_TARGET_FIELD_NAME: Name of Target field.
- V_TARG_DATA_TYPE: Data type of target field.

The following is an example:

| DM ID | V_ENTITY_NAME | V_FIELD_NAME | V_SRC_DATA_TYPE | V_FIELD_FORMAT | F_IS_NULL_ALLOWED | V_SQL_EXPRESSION | V_TARGET_ENTITY_NAME | V_TARGET_FIELD_NAME | V_SQL_FUNCTION | V_NULL_IF | V_DEFAULT_IF | V_TARGET_DATA_TYPE | V_EXECUTION_SPACE |
|-------|---------------|-----------------|-----------------|----------------|-------------------|--------------------------|----------------------|---------------------|----------------|-----------|--------------|--------------------|-------------------|
| 1 | EXPRESSION | DATA_DUMP_DT | DATE | | Y | \$MISDATE | FCC_EMP_PHON | MIS_DATE | | | | DATE | Trg |
| 1 | EMP_PHON | EMP_INTRL_ID | VARCHAR2(200) | | Y | | FCC_EMP_PHON | EMP_INTRL_ID | | | | VARCHAR2(200) | Src |
| 1 | EXPRESSION | EMP_PHON_SEQ_ID | NUMBER(22,0) | | Y | CM_EMP_PHON_SEQ.NEXT-VAL | FCC_EMP_PHON | EMP_PHON_SEQ_ID | | | | NUMBER(22,0) | Trg |
| 1 | EMP_PHON | PHON_EXT_NB | VARCHAR2(20) | | Y | | FCC_EMP_PHON | PHON_EXT_NB | | | | VARCHAR2(20) | Src |
| 1 | EXPRESSION | PHONE_TYPE | VARCHAR2(20) | | Y | 'Business' | FCC_EMP_PHON | PHONE_TYPE | | | | VARCHAR2(20) | Src |

7.3.2 DM Audit and Error Details Tables

- FCC_DM_AUDIT: stores the execution order of each run and SQL execution in source and target.
- FCC_DM_ERROR_DETAILS: stores all the errors that occurred in the source or target database.

7.4 Configuring Data Movement from LA to CA

This section covers the following topics:

- [About Data Movement](#)
- [Sample Processes](#)
- [Using Precedence](#)
- [Designing Processes](#)

7.4.1 About Data Movement

This section explains configuring the data movement from Landing Area (LA) to Consolidation Area (CA). This is applicable for OBD, OKYC, OCS, OFATCA, OTBAML, and Third-party. In the OOB process, you can run the processes in parallel as well as in sequence. However, you can configure these processes based on your requirements.

For example, you can configure processes based on entity and related data such as account, customer, employee, institution, and so on. The following are OOB processes as part of the Business data movement. These OOB sample processes can be used only for reference purposes.

7.4.2 Sample Processes

These sample processes are designed using OOB Oracle Behavior Detection Business data processes (Oracle Behavior Detection to CA Account Address, Oracle Behavior Detection to CA Customer, Oracle Behavior Detection to CA Employee Email Address, and so on).

The sub-processes used to create a process, from process1 to Process9 are part of OOB Business Data Movement processes. In the out of box batch run, these sub-processes can be run in both parallel and sequence.

You can create processes based on your requirements. The processes are created using sub-processes considering various parameters such as scenario, focus, and associated business data, the volume of records, hardware configuration, and so on.

The following is the list of sample processes (Oracle Behavior Detection Business data from LA to CA) which has sub-processes attached to it.

Table 20: Sample Processes

| Process Name | Description |
|--------------|---|
| Process1 | This process is designed using the following sub-processes (OBD to CA Account): <ul style="list-style-type: none"> • Oracle Behavior Detection to CA Account, • Oracle Behavior Detection to CA Account Address, • Oracle Behavior Detection to CA Account Balance Position Summary, • Oracle Behavior Detection to CA Email Address, and so on |
| Process2 | This process is designed using the following sub-processes (OBD to CA Customer): <ul style="list-style-type: none"> • Oracle Behavior Detection to CA Customers, • Oracle Behavior Detection to CA CustomersAccount, • Oracle Behavior Detection to CA CustomersAddress, • Oracle Behavior Detection to CA Customers Email Address, • Oracle Behavior Detection to CA Customers IMP License, and so on |
| Process3 | This process is designed using the following sub-processes (OBD to CA Employee): <ul style="list-style-type: none"> • Oracle Behavior Detection to CA Employee, • Oracle Behavior Detection to CA Employee Address, • Oracle Behavior Detection to CA Employee Email Address, • Oracle Behavior Detection to CA Employee Phone, • Oracle Behavior Detection to CA Employee to Account, and so on |

Table 20: Sample Processes

| | |
|--------------|---|
| Process4 | This process is designed using the following sub-processes: <ul style="list-style-type: none"> ● Oracle Behavior Detection to CA Account, ● Oracle Behavior Detection to CA Employee, ● Oracle Behavior Detection to CA Customers, and so on |
| Process5 | This process is designed using the following sub-processes: <ul style="list-style-type: none"> ● Oracle Behavior Detection to CA Account Address ● Oracle Behavior Detection to CA Account Balance Position Summary ● Oracle Behavior Detection to CA Account Email Address, and so on |
| Process6 | This process is designed using the following sub-processes: <ul style="list-style-type: none"> ● Oracle Behavior Detection to CA CustomersAccount ● Oracle Behavior Detection to CA CustomersAddress ● Oracle Behavior Detection to CA Customers Email Address ● Oracle Behavior Detection to CA Employee |
| Process7 | This process is designed using the following sub-processes: <ul style="list-style-type: none"> ● Oracle Behavior Detection to CA Employee Address, ● Oracle Behavior Detection to CA Employee Email Address, ● Oracle Behavior Detection to CA Employee Phone, ● Oracle Behavior Detection to CA Employee to Account, and so on |
| Process8 & 9 | These processes are designed using all sub-processes. |

- The above process names are used for reference purposes.
- Process 1, 2, and 3 are designed based on a similar entity bucketed into one process.
- Process 4, 5, 6, and 7 are designed based on the distribution of the volume of data. For example, if Process4 has a huge volume of data compare to Process5, 6, and 7. You can design the process (business data movement) in such a way that the Process4 runs in parallel with Process5, internally, Process5, 6, and 7 can run in sequence.

Using the above sample processes, you can design entire Landing Area to Consolidation Area data movement based on your requirement.

NOTE

If the Data Movement (DM) processes in different batch runs are same to fetch the data from a particular source, then additional configuration is required. This configuration avoids the duplicate data in the consolidation area of ECM and negative performance.

For example: If the DM processes in AML and KYC batches are the same, then exclude the DM tasks from the latter batch as it will run as part of AML Batch (*considering AML batch is configured to run first*).

Above step needs to be performed to avoid the following issues:

- If Batch is configured to run in DI (Delete Insert) or MI (Merge Insert) mode, then it will have performance impact due to duplicate task run.
- If Batch is configured to run in IS (Insert Select) mode, then unique constraints will be thrown by the latter batch due to duplicate data.

7.4.3 Using Precedence

Follow the sequence of precedence while moving the data.

1. Event lookup should be populated
2. Event-related tables should be populated and the sub-processes can run in parallel.
3. Surrogate key should be populated for all entities (lookup table, for example, account lookup, customer lookup). The sub-processes can run in parallel.
4. Evented data movement processes and business data movement processes can run in parallel.

NOTE

Make sure precedence is set for data movement

7.4.4 Designing Processes

You can design processes using sub-processes. This section is explained using Oracle Behavior Detection processes and sub-processes as an example. For more information on Sample Processes, see the section [Load Data from BD to ECM](#) of [List of Processes and Tasks](#).

The following figure depicts sub-processes in Oracle Behavior Detection processes.

| Oracle Behavior Detection Sub-Processes | | | | | |
|---|--|------------------|---|------------------|--|
| Sub Process (SP) | Description | Sub Process (SP) | Description | Sub Process (SP) | Description |
| SP1 | Oracle Behavior Detection to CA Account | SP5 | Oracle Behavior Detection to CA Customers | SP9 | Oracle Behavior Detection to CA Employee |
| SP2 | Oracle Behavior Detection to CA Account Address | SP6 | Oracle Behavior Detection to CA Customers Account | SP10 | Oracle Behavior Detection to CA Employee Address |
| SP3 | Oracle Behavior Detection to CA Account Balance Position Summary | SP7 | Oracle Behavior Detection to CA Customers Address | SP11 | Oracle Behavior Detection to CA Employee Email Address |
| SP4 | Oracle Behavior Detection to CA Account Email Address | SP8 | Oracle Behavior Detection to CA Customers Email Address | SP12 | Oracle Behavior Detection to CA Employee Phone |

Figure 16: Oracle Behavior Detection processes

The following figure illustrates the Processes (1 to 9) designed using sub-processes (SP).

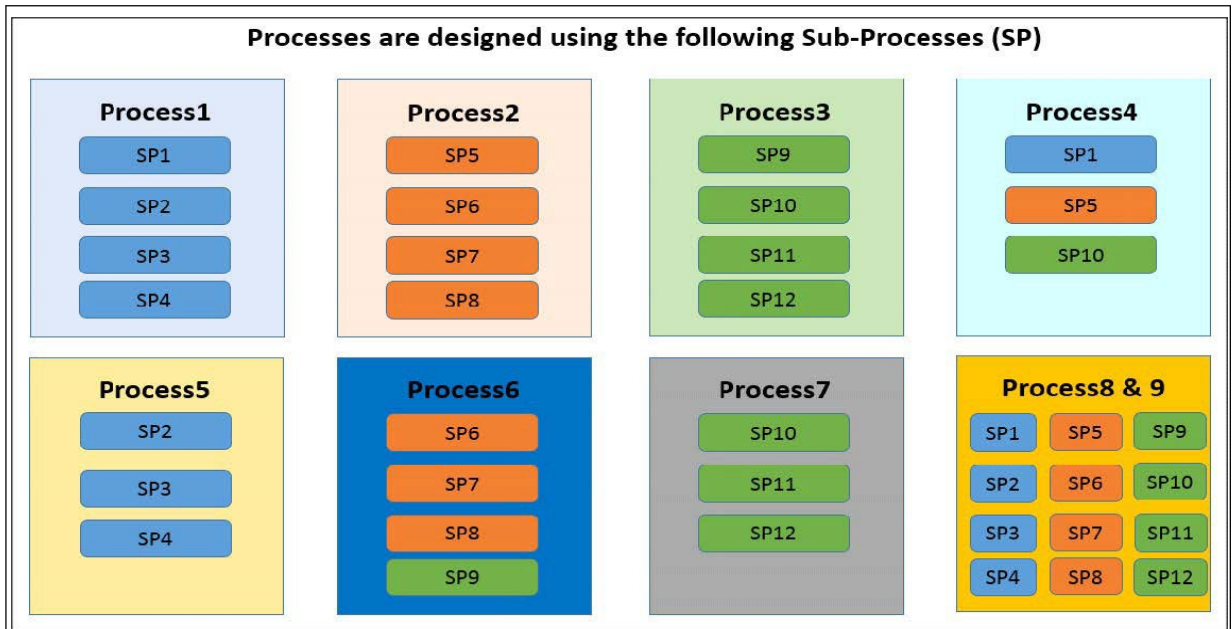


Figure 17: Oracle Behavior Detection Subprocesses

You can run Processes using the list of options shown in the following figure.

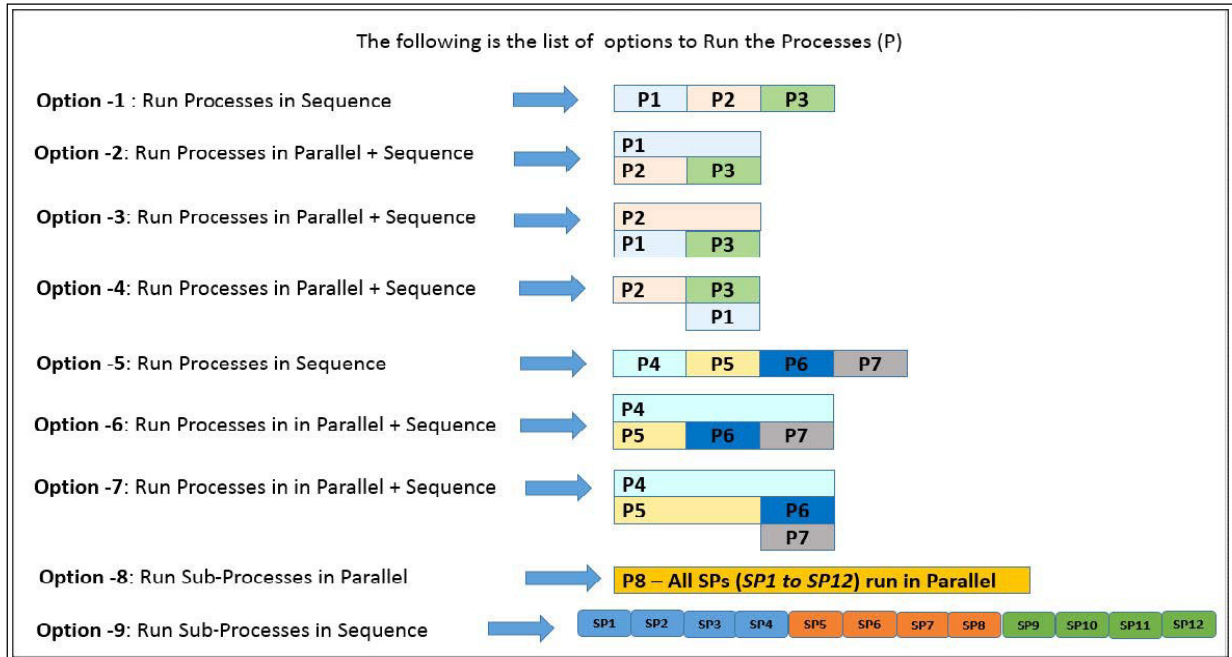


Figure 18: Options- processes

The following table provides a complete description of each option.

Table 21: Options

| Option | Description |
|--------|--|
| 1 | <p>P1, P2, and P3 processes are configured in sequence.</p> <ul style="list-style-type: none"> In P1, sub-processes - SP1, SP2, SP3, and SP4 will run in parallel. Once the P1 is completed, P2 will start and sub-processes SP5, SP6, SP7, and SP8 will run in parallel. Once P2 is completed, P3 will start and sub-processes SP9, SP10, SP11, and SP12 will run in parallel. |
| 2 | <p>P1 and P2 will start in parallel and P3 will start only after P2 is completed, irrespective of P1 is completed or not.</p> <ul style="list-style-type: none"> In P1, sub-processes - SP1, SP2, SP3, and SP4; in P2, sub-processes- SP5, SP6, SP7, and SP8 will run in parallel. Once the P2 is completed, P3 will start and sub-processes SP9, SP10, SP11, and SP12 will run in parallel. |
| 3 | <p>P2 and P1 will start in parallel and P3 will start only after P1 is completed, irrespective of P2 is completed or not.</p> <ul style="list-style-type: none"> In P2, sub-processes - SP5, SP6, SP7, and SP8; in P1, sub-processes- SP1, SP2, SP3, and SP4 will run in parallel. Once the P1 is completed, P3 will start and sub-processes SP9, SP10, SP11, and SP12 will run in parallel. |

Table 21: Options

| | |
|---|---|
| 4 | <p>Only after completion of P2, P3 and P1 will start in parallel.</p> <ul style="list-style-type: none"> • In P2, sub-processes - SP5, SP6, SP7, and SP8 run in parallel. • P3 - SP9, SP10, SP11, and SP12, and P1 - SP1, SP2, SP3, and SP4 sub-process will run in parallel only after completion of all sub-processes of P2. |
| 5 | <p>P4, P5, P6, and P7 processes are configured in sequence.</p> <p>P4 - SP1, SP5, and SP10 will run in parallel.</p> <ul style="list-style-type: none"> • Once the P4 is completed, P5- SP2, SP3, and SP4 will start in parallel. • Once the P5 is completed, P6- SP6, SP7, SP8, PS9 will start in parallel. • Once the P6 is completed, P7- SP10, SP11, and SP12 will start in parallel. |
| 6 | <p>P4 and P5 will start in parallel and P6 will start only after P5 is completed, and followed by P7 irrespective of P4 is completed or not.</p> <ul style="list-style-type: none"> • In P4, sub-processes – SP1, SP5, and SP10; in P5, sub-processes- SP2, SP3, and SP4 will run in parallel. • Once the P5 is completed, P6 will start and sub-processes SP6, SP7, SP8, and SP9 will run in parallel. • Once the P6 is completed, P7 will start and sub-processes SP10, SP11, and SP12 will run in parallel. |
| 7 | <p>P4 and P5 will start in parallel. P6 and P7 will start in parallel only after P5 is completed, irrespective of P4 is completed or not.</p> <ul style="list-style-type: none"> • In P4, sub-processes - SP1, SP5, and SP10; in P5, sub-processes- SP2, SP3, and SP4 will run in parallel. • P6 - SP6, SP7, SP8, and SP9, and P7 - SP10, SP11, and SP12 sub-process will run in parallel only after completion of all sub-processes of P5. |
| 8 | <p>Once P8 starts, all sub-processes from SP1 to SP12 will run in parallel.</p> |
| 9 | <p>All sub-processes will run in sequence from SP1 to SP12.</p> |

S

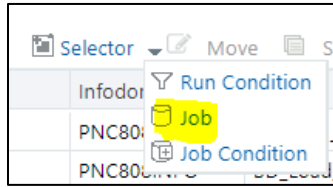
- The same sub-processes should not be part of two processes. For example, you should add P1 and P4 in the same run as they have similar sub-process (SP1).
- The above options are used as samples, you can configure your own options based on the requirement.


To design the above process, see the [OFS AAI User Guide](#).

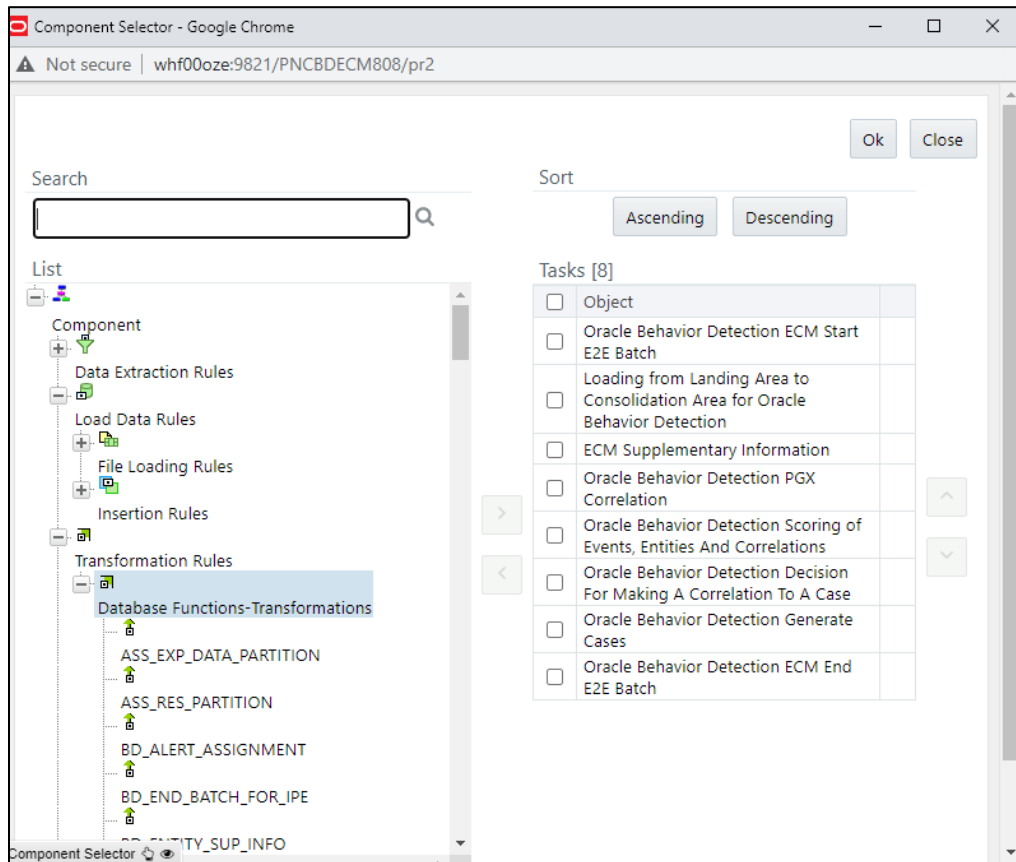
7.4.5 Adding Transformation Rule

To add a Transformation Rule, follow these steps:

1. Navigate to Enterprise Case Management Application.
2. Go to the Common task section. Select the **Run Rule Framework**.
3. Click **Run**. The Run window is displayed.
4. Go to the List section. Select an application for example (Oracle_BD_Event_Processing) and click **Edit**. The list of processes for the selected application is displayed.
5. Select **Job** from **Selector**.



6. Click **Components** and select required Transformation Rule, move to Tasks list using . Click **Ok**. Transformation Rule will be added to process.



8 Configuring Correlation

This chapter provides the concept and usage of correlation. The following sections are covered in this chapter:

- [About Correlation](#)
- [Using Business Entity Paths](#)
- [Executing Correlation Rules](#)
- [Sample Correlation Rules](#)

8.1 About Correlation

After the event data is loaded from OBD, OKYC, OCS, OFATCA, OTBAML, OSTDO, or third-party applications into ECM, you can correlate event to business entities and event to event based on business entities using configurable rule sets. This functionality is performed by the Event Correlation process. The group of events is identified for correlation-based on business entries in an application (BD, KYC, CS, FATCA, TBAML, OSTDO or Third-party).

Correlation can be performed for both manual events and real-time events.

8.2 Using Business Entity Paths

Following two tables are used for configuring business entity paths:

- [Correlation Business Path](#)
- [Correlation Business Entity Configuration](#)

8.2.1 Correlation Business Path

The business entity paths are managed through manual interaction with the FCC_CORR_BUS_ENTITY_PATH table in the ECM. This table is populated with a comprehensive set of sample data paths. The following information assists in modifying the path of adding to it. The structure of the table is as follows:

Table 22: FCC_CORR_BUS_ENTITY_PATH (Metadata Table)

| Column Name | Primary Key | Column Type | Nullable |
|-----------------------------|-------------|--------------|----------|
| N_BUS_ENTITY_PATH_SKEY | Y | NUMBER(10) | No |
| D_MIS_DATE | | | |
| V_BUSINESS_ENTITY_PATH_NAME | | VARCHAR2(50) | No |
| V_QUERY_DEFINITION_NAME | | VARCHAR2(50) | Yes |
| N_BUSINESS_ENTITY_ID | | NUMBER(10) | Yes |
| _FOCUS_ID | | NUMBER(10) | Yes |
| V_ENTITY_TYPE | | VARCHAR2(50) | Yes |
| V_QUERY_DEFINITION_NAME | | VARCHAR2(50) | Yes |

Table 22: FCC_CORR_BUS_ENTITY_PATH (Metadata Table) (Continued)

| Column Name | Primary Key | Column Type | Nullable |
|-------------------------|-------------|-------------|----------|
| N_QUERY_DEFINITION_SKEY | | NUMBER(10) | Yes |

To correlate events to business entities, follow these steps:

1. Define paths using the above table to perform the Event Correlation algorithm.
2. Define whether the origin of the path should be the focus of an event or a matched record, by populating either.
3. Establish either populating the `_FOCUS_ID` column (indicating that the origin should be the focus of the event), or the `V_QUERY_DEFINITION_NAME` column (indicating that the origin should be a matched record of the event).
4. The destination of the path (the business entity you are trying to correlate to by executing this path) is defined by the `N_BUSINESS_ENTITY_ID` column.

8.2.2 Correlation Business Entity Configuration

The structure of the Business Entity path configuration table is as follows:

Table 23: FCC_CORRELATION_BUS_ENTITY_CFG (Metadata Table)

| Column Name | Primary Key | Column Type | Nullable |
|----------------------------|-------------|-------------|----------|
| N_BUS_ENTITY_PATH_CFG_SKEY | * | NUMBER(10) | No |
| N_BUS_ENTITY_PATH_SKEY | | NUMBER(10) | No |
| N_SCENARIO_MASTER_SKEY | | NUMBER(10) | Yes |
| V_SCENARIO_CLASS_CD | | VARCHAR2(3) | Yes |
| N_PATH_PRECEDENCE | | NUMBER(10) | Yes |
| V_EVENT_TYPE | | VARCHAR2(3) | |

To configure the Business Entity path, follow these steps:

1. Select to apply the path identified by the `N_BUS_ENTITY_PATH_CFG_SKEY` in this table for s of a certain scenario or scenario group.
2. Populate the `N_SCENARIO_MASTER_SKEY` or the `V_SCENARIO_CLASS_CD` column to establish respectively.

NOTE

If neither of these columns is populated, this path configuration is considered for the case of any scenario or scenario group. The “importance” or “strength” of a correlation determined by this path can vary depending on the scenario or scenario group of the case.

This is defined by the N_PATH_PRECEDENCE (the lower the number, the higher the precedence). A NULL N_PATH_PRECEDENCE indicates not to apply this N_BUS_ENTITY_PATH_CFG_SKEY to any cases of this SCNRO_ID or V_SCENARIO_CLASS_CD.

By default, For N_BUS_ENTITY_PATH_SKEY = 1004, if N_SCENARIO_MASTER_SKEY and V_SCENARIO_CLASS_CD is NULL and N_PATH_PRECEDENCE = 10 then the PATH_SKEY = 1004 will be considered for execution for all the scenario class except the below mentioned cases

1. For N_BUS_ENTITY_PATH_SKEY = 1004, if N_SCENARIO_MASTER_SKEY is NULL and V_SCENARIO_CLASS_CD = 'FR' and N_PATH_PRECEDENCE = 15 then the PATH_SKEY = 1004 will be executed for 'FR' related scenarios
2. For N_BUS_ENTITY_PATH_SKEY = 1004, if N_SCENARIO_MASTER_SKEY = '114697025' and V_SCENARIO_CLASS_CD is NULL and N_PATH_PRECEDENCE is NULL then the PATH_SKEY = 1004 will not be considered for execution
3. For N_BUS_ENTITY_PATH_SKEY = 1004, if N_SCENARIO_MASTER_SKEY = '114697025' and V_SCENARIO_CLASS_CD = 'ML' and N_PATH_PRECEDENCE is NULL then the PATH_SKEY = 1004 will not be considered for execution.
4. For N_BUS_ENTITY_PATH_SKEY = 1004, if N_SCENARIO_MASTER_SKEY = '114697025' and V_SCENARIO_CLASS_CD = 'IML' and N_PATH_PRECEDENCE = 13 then the PATH_SKEY = 1004 will be considered for execution only for the above mentioned '114697025' and 'IML'

8.3 Executing Correlation Rules

You can execute the correlation using two methods:

- Using the Run Rule Framework
- Performing Jobs

Using Run Rule Framework

You can run a correlation using the Run Rule Framework. For more information, refer to the [Configuring Correlation](#) section.

8.3.1 Performing Jobs

If the correlation execution fails from the Run Rule Framework, then execute it using the following steps:

| | |
|-------------|---|
| NOTE | Run the Event Correlation process to execute only those correlation rules that are designated as Active. Rules that are designated as Inactive is ignored and not executed. |
|-------------|---|

1. Navigate to \$FIC_HOME/ficdb/bin/ficdb/bin.
2. Execute the following script:


```
./correlation.sh ECMINFO_1509116374374_20091226_1 a b 20091226 c
ECMINFO_1509116374374_20091226_1 is V_BATCH_RUN_ID from FCC_BATCH_RUN
```

D_MIS_DATE is the date from FCC_BATCH_RUN

8.4 Sample Correlation Rules

OFS ECM delivers the following four sample correlation rules:

- **KYC Correlation:** KYC Groups events created in the past month based on a common correlated business entity. KYC Groups events created in the past seven days that are generated on one or more specified scenarios where the events share a common correlated business entity. Specified scenarios are those scenarios that identify behaviors that, in isolation or when considered as a whole, can be indicative of identity theft.
- **FATCA Correlation:** FATCA Groups events created in the past month based on a common correlated business entity. FATCA Groups events created in the past seven days that are generated on one or more specified scenarios where the events share a common correlated business entity. Specified scenarios are those scenarios that identify behaviors that, in isolation or when considered as a whole, can be indicative of identity theft.
- **TBAML Correlation:** TBAML Groups events created in the past month based on a common correlated business entity. TBAML Groups events created in the past seven days that are generated on one or more specified scenarios where the events share a common correlated business entity. Specified scenarios are those scenarios that identify behaviors that, in isolation or when considered as a whole, can be indicative of identity theft.
- **AML Correlation:** AML Groups events created in the past month based on a common correlated business entity. AML Groups events created in the past seven days that are generated on one or more specified scenarios where the events share a common correlated business entity. Specified scenarios are those scenarios that identify behaviors that, in isolation or when considered as a whole, can be indicative of identity theft.
- **Customer Screening Correlation:** CS Groups events created in the past month based on a common correlated business entity. CS Groups events created in the past seven days that are generated on one or more specified scenarios where the events share a common correlated business entity. Specified scenarios are those scenarios that identify behaviors that, in isolation or when considered as a whole, can be indicative of identity theft.
- **Third-party:** Third-party Groups events created in the past month based on a common correlated business entity. Third-party Groups events created in the past seven days that are generated on one or more specified scenarios where the events share a common correlated business entity. Specified scenarios are those scenarios that identify behaviors that, in isolation or when considered as a whole, can be indicative of identity theft.

9 Scoring

This chapter provides the concept behind scoring in the ECM. The following sections are covered in this chapter:

- About Scoring
- Types of Scoring
- Configuring Scoring Rules
- Scoring Samples

9.1 About Scoring

Scoring is a methodology to score events, correlation, and entity (customer or account).

The following are the methods of scoring:

- Initial Scoring
- Adjustment Scoring

9.1.1 Initial Scoring

The following figure depicts the initial scoring process.

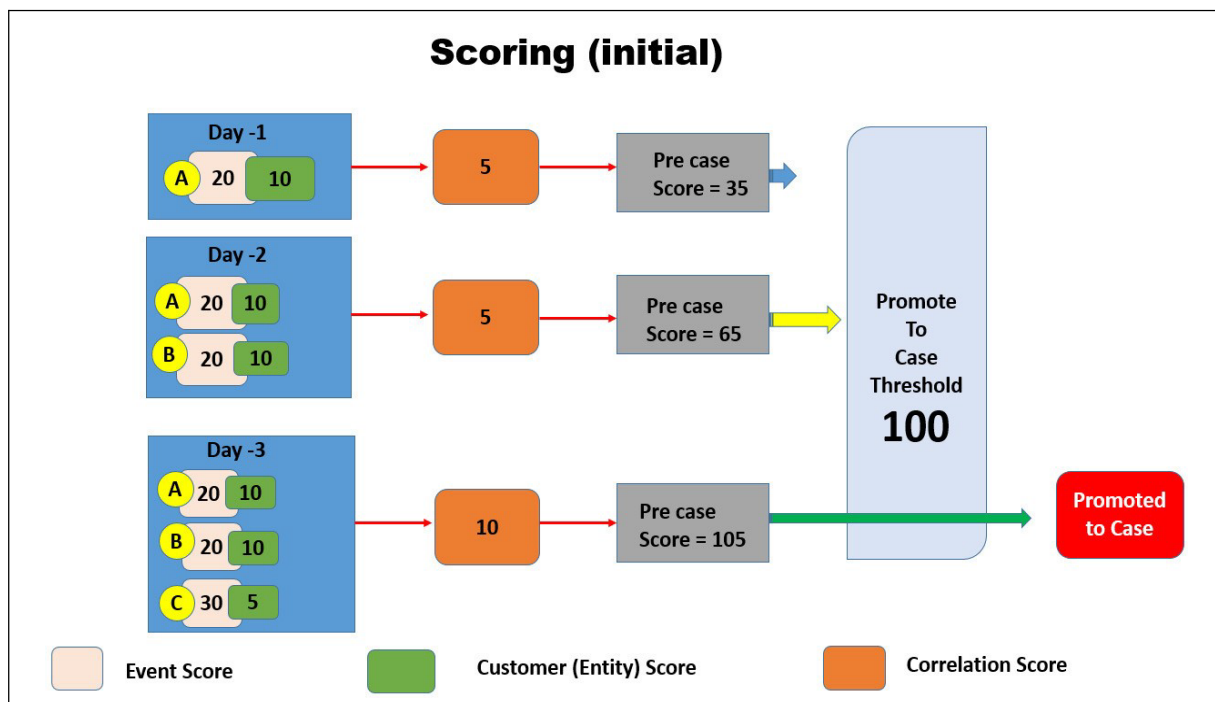


Table 24: Initial Scoring

| Day | Event - A Score | Event - B Score | Event - C Score | Customer Score | Correlation Score | Pre case Score | PTC Threshold | PTC (Yes/No) |
|---------|-----------------|-----------------|-----------------|----------------|-------------------|----------------|---------------|--------------|
| Day - 1 | 20 | | | 10 | 5 | 35 | 100 | No |
| Day - 2 | 20 | 20 | | 20 | 5 | 65 | 100 | No |
| Day - 3 | 20 | 20 | 30 | 25 | 10 | 105 | 100 | Yes |

9.1.1.1 Day - 1

- A newly generated event (A), associated entity (customer), and correlation are scored. A case to get promoted, the pre case should cross the threshold score (100).
- The pre case score is 35. It is the sum of event + customer + correlation = pre case score. That is, $20 + 10 + 5 = 35$.
- As it could not cross the threshold, hence, it remained as a pre case.

9.1.1.2 Day - 2

- Another event (event B) is generated, along with event (A), associated entity (customer), and correlation are scored. A case to get promoted, the pre case should cross the threshold score (100).
- The pre case score is 65. It is the sum of event A + event B + customer + correlation = pre case score. That is, $20 + 20 + 10 + 5 = 65$.
- As it could not cross the threshold, hence, it remained as a pre case.

9.1.1.3 Day - 3

- Another event (event C) is generated along with event (event B), event (A), associated entity (customer), and correlation is scored. A case to get promoted, the pre case should cross the threshold score (100).
- The pre case score is 105. It is the sum of event A + event B + event C + customer + correlation = pre case score. That is, $20 + 20 + 30 + 10 + 10 = 105$.
- A pre case is promoted to the case.

9.1.2 Adjustment Scoring

An Adjustment Scoring happens every day for all events which are not part of PTC (Promote to case). That is, the event is scored every day till it is promoted to the case. This is the negative scoring of an event.

The following figure depicts the adjustment scoring process.

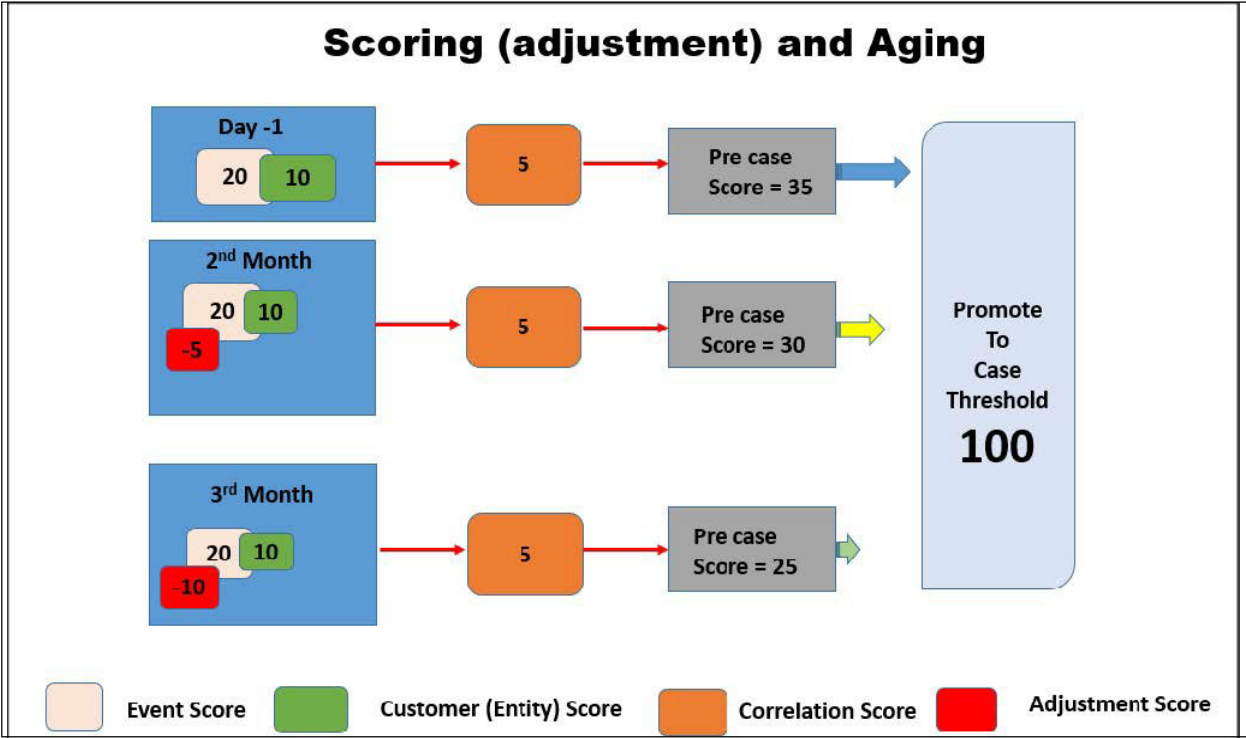


Figure 19: Adjustment Scoring

Table 25: Adjustment Scoring

| Period | Event - A Score | Event adjustment Score | Customer Score | Correlation Score | Pre case Score | PTC Threshold | PTC (Yes/No) |
|-----------|-----------------|------------------------|----------------|-------------------|----------------|---------------|--------------|
| Day - 1 | 20 | | 10 | 5 | 35 | 100 | No |
| 2nd Month | 20 | -5 | 10 | 5 | 30 | 100 | No |
| 3rd Month | 20 | -10 | 10 | 5 | 25 | 100 | No |

9.1.2.1 Days - 1

- A newly generated event (A), associated entity (customer), and correlation are scored. A case to get promoted, the pre case should cross the threshold score (100).
- The pre case score is 35. It is the sum of event + customer + correlation = pre case score. That is, $20 + 10 + 5 = 35$.
- As it could not cross the threshold, hence, it remained as a pre case.

9.1.2.2 2nd Month

- If the event (A), associated entity (customer), and correlation are not promoted, an adjustment score is applied. That is, the event score is reduced (-5).
- The pre case score is 30. It is the sum of event + customer + correlation - event adjustment score = pre case score. That is, $20 + 10 + 5 - 5 = 30$.

9.1.2.3 3rd Month

- If the event (A), associated entity (customer), and correlation are not promoted, an adjustment score is applied further. That is, the event score is reduced (-10).
- The pre case score is 30. It is the sum of event + customer + correlation - event adjustment score = pre case score. That is, $20 + 10 + 5 - 10 = 25$.

9.2 Types of Scoring

The following is the list scoring types:

- Event Scoring
- Entity Scoring
- Correlation Scoring
- Pre case Scoring

9.2.1 Event Scoring

Every event that is generated is scored. Event scoring is performed on events of AML and Third-party.

- **Event Scoring in AML:** both initial and adjustment scoring are performed.
- **Event Scoring in Third-party:** both initial and adjustment scoring are performed. The Initial scoring on third-party events is performed by event scoring rules created by IPE.

9.2.2 Entity Scoring

Entity scoring is performed on AML and third-party entities. Every entity that is associated with the entity is scored. Here, the Customer is the only entity. The Entity scoring is performed by entity rules defined in the IPE. You can perform the entity scoring on different attributes of an entity such as the effective risk of the entity, business domain, jurisdiction, and so on. Entity scoring happens daily till they are promoted to the case.

9.2.3 Correlation Scoring

This scoring is performed on correlation on the same day. The score generated by correlation scoring contributes to the pre-case score. Correlation scoring happens daily till they are promoted to the case.

9.2.4 Pre case Scoring

An event is promoted to case based on pre case scoring. The pre case score is the sum of the event A + event B + event C + customer + correlation score. If the pre case score does not cross the promote to case threshold, it remains a pre case only.

9.3 Configuring Scoring Rules

The following seeded scoring rules are used for scoring:

- Aging Event Scoring
- Correlation Scoring

- Customer Scoring
- Initial Event Scoring

For more information configuring scores, see the [Inline Processing Engine User Guide](#).

9.3.1 Configuring AML Event Initial Scoring

This section explains how to configure the initial scoring of the AML Event.

To configure the AML Event initial scoring, follow these steps:

1. Navigate to Enterprise Case Management Application.
2. Go to the Common task section. Select the **Run Rule Framework**.
3. Click **Process**. The Process Summary window is displayed with the available Processes.

| Code | Name | Folder | Version | Active |
|--|---|-----------|---------|--------|
| <input type="checkbox"/> BD_ACCOUNTATMDAILY_LOOKUP | Oracle Behavior Detection to CA Account ATM Daily Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNTDLY_LOOKUP | Oracle Behavior Detection to CA Account Daily Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNTTRADEDLY_LOOKUP | Oracle Behavior Detection to CA Account Trade Daily Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNTTRXNDLY_LOOKUP | Oracle Behavior Detection to CA Account Transaction Daily Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNT_GROUP_LOOKUP | Oracle Behavior Detection to CA Account Group Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNT_GROUP_LOOKUP1 | BD_New | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNT_LOOKUP | Oracle Behavior Detection to CA Account Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCOUNT_PEERGROUP_LOOKUP | Oracle Behavior Detection to CA Account PeerGroup Lookup | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCT | Oracle Behavior Detection to CA Account | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCT_ACCT_ADDR_EVNT | Oracle Behavior Detection to CA Evented Account Address | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCT_ADDR | Oracle Behavior Detection to CA Account Address | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCT_ATM_SMRY_DAILY | Oracle Behavior Detection to CA Account ATM summary Daily | ECMSEGMNT | 0 | Yes |
| <input type="checkbox"/> BD_ACCT_ATM_SMRY_DAILY_EVNT | Oracle Behavior Detection to CA Evented Account ATM summary Daily | ECMSEGMNT | 0 | Yes |

Figure 20: Process Summary Window

4. Search for BD Scoring code, for example, BD_Event_Scoring.

| Code | Name | Folder | Version | Active |
|--|---|-----------|---------|--------|
| <input checked="" type="checkbox"/> BD_Event_Scoring | Oracle Behavior Detection Event Scoring | ECMSEGMNT | 0 | Yes |

Page 1 of 1 (1-15 of 1 items) Records Per Page 1

Figure 21: BD_Event_Scoring

5. Click **Edit** after selecting the BD Event processing. The list of tasks is displayed.

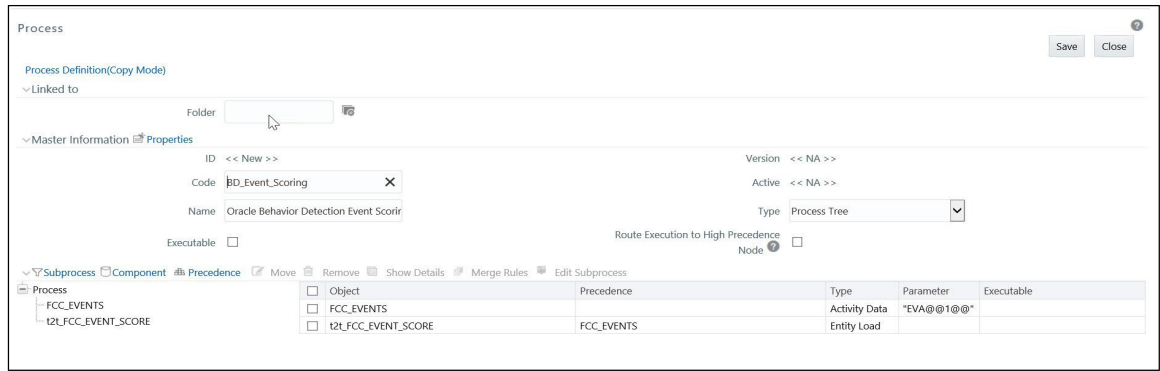


Figure 22: List of Tasks

6. Click **Components**.

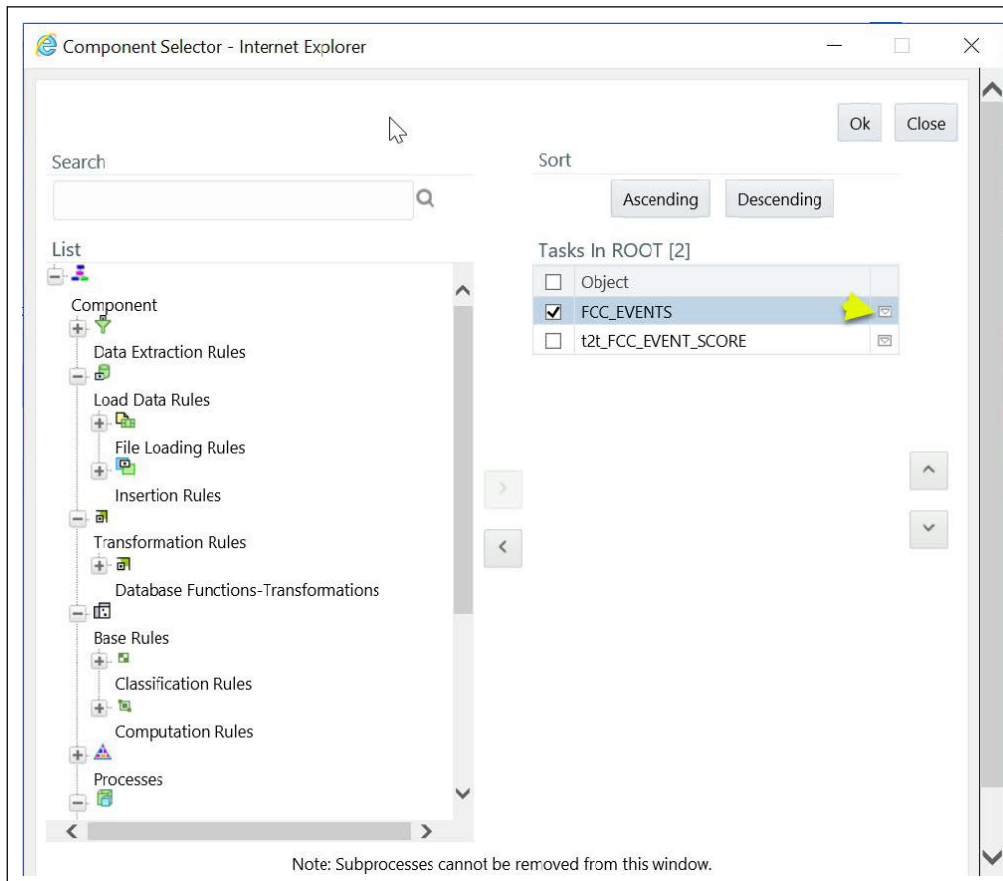


Figure 23: Components

7. Delete all the parameters of the FCC_Events task and click **Ok**.

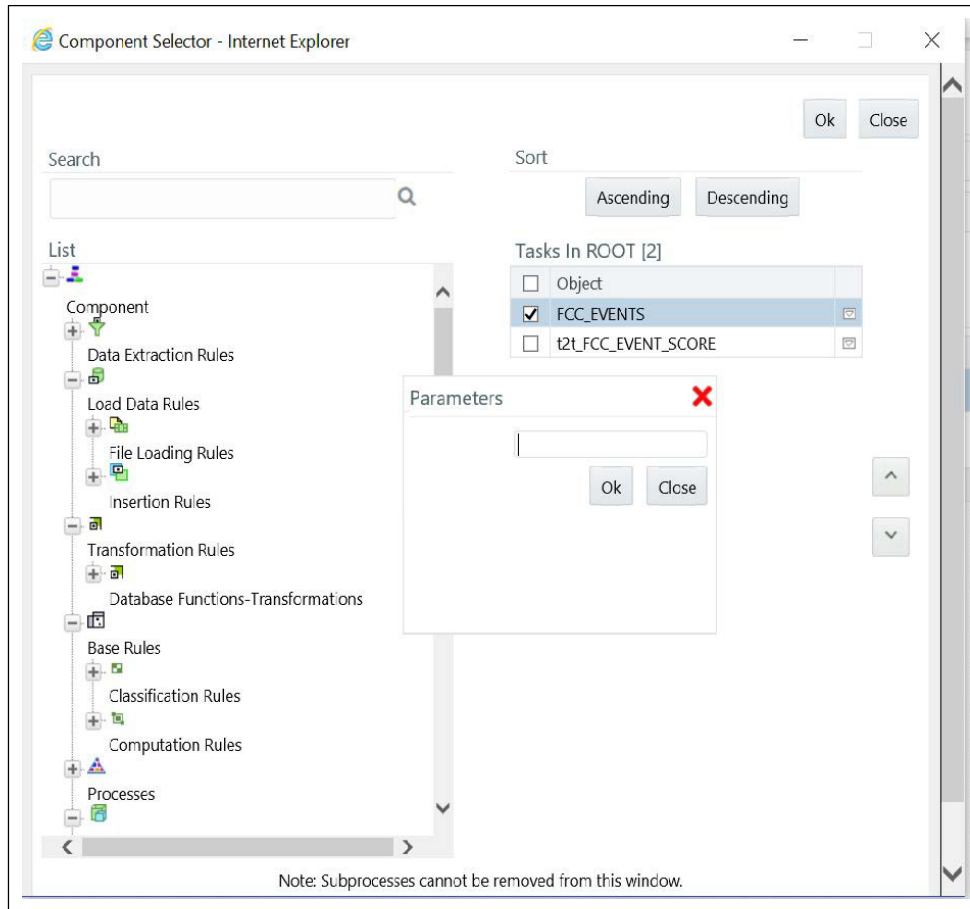
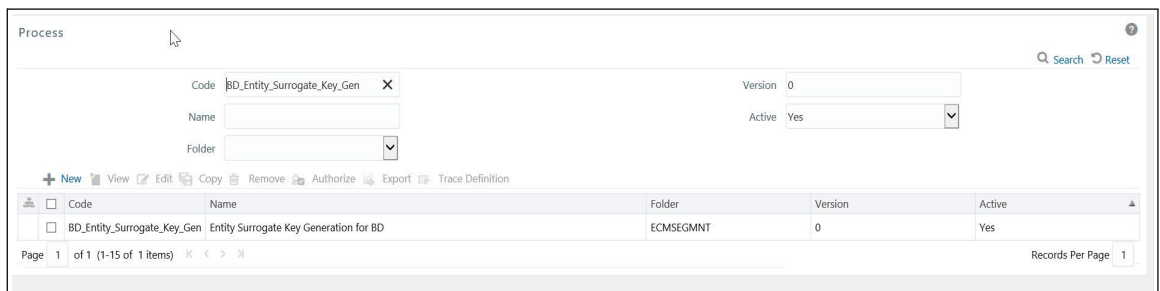


Figure 24: Parameters

8. Navigate to the Process Summary window and search **BD_Entity_Surrogate_Key_Gen**.



9. The list of tasks is displayed. Click **Component**.

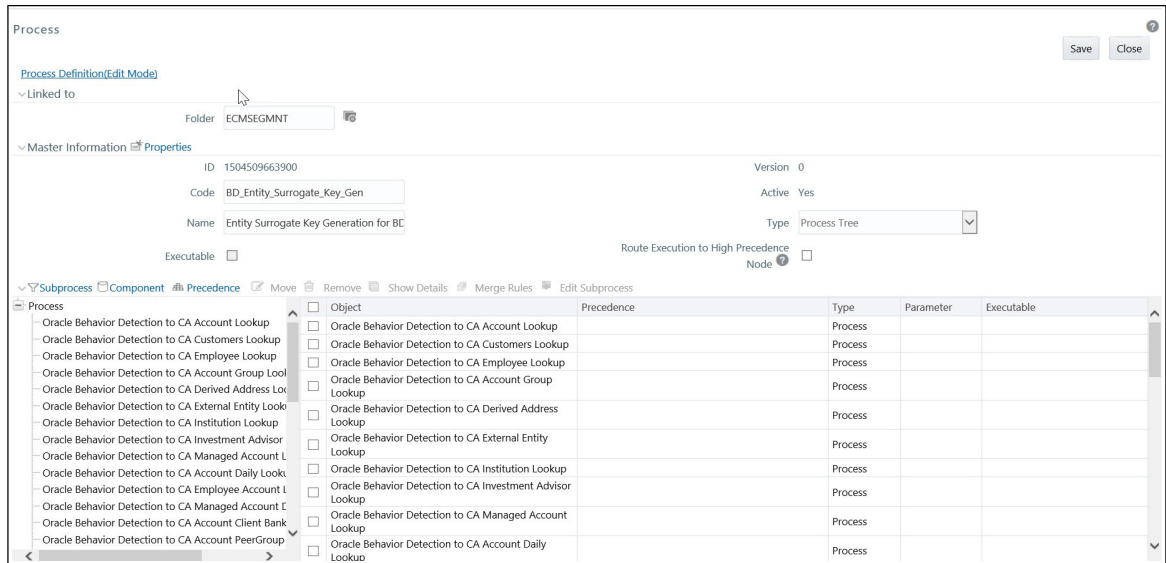


Figure 25: List of Tasks

10. Select **Oracle Behavior Detection to CA Event Scoring** and click OK.

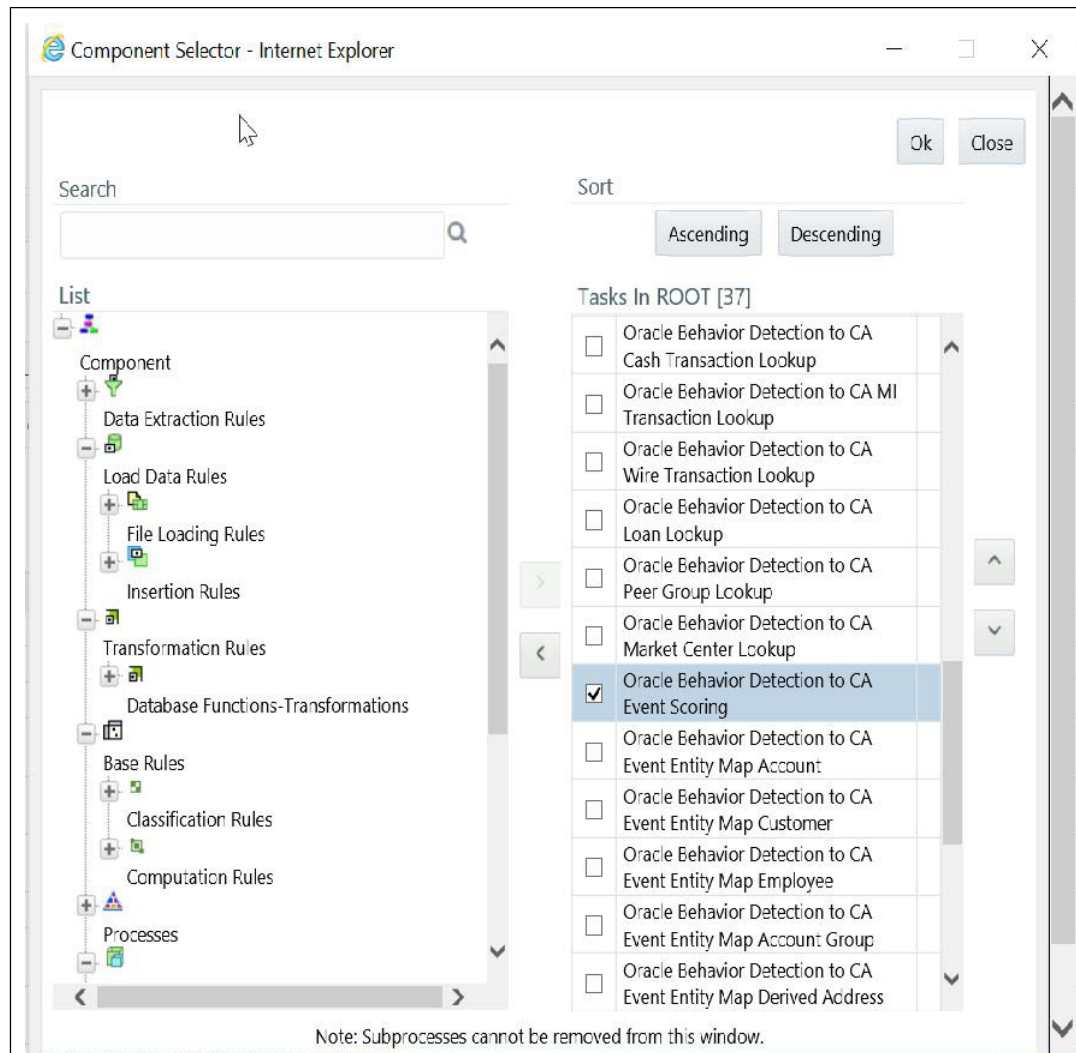


Figure 26: Deselecting of Oracle Behavior Detection to CA Event Scoring Process

11. Save the Process.

9.4 Scoring Samples

This section covers the following scoring samples:

- Event
- Entity
- Correlation

9.4.1 Event

This scoring rule defines various scoring criteria to be followed focusing on the event attributes. The Event Scoring is performed on the following event attributes:

- Scenario
- Total Transaction Amount and Risk Score

- Aging

9.4.1.1 Scenario

- Provide default scoring for each scenario. The total of events scored contributes to the pre-case score. The following are the default score for different scenarios:
 - ML – 10
 - Fraud – 5
 - Transaction/Sanctions Filtering – 30
 - KYC – 20
- If a correlation is formed for three events (A, B, and C) by ML, TF, and KYC. The following is the pre-case score for correlation.
 - Event A – ML (Rapid Movement of Funds – All Activity (CU focus)) – 10
 - Event B – TF – 30
 - Event C – KYC – 30
 - Total pre-case score – 70.
- If a correlation is formed for 3 events (A, B, and C) all ML scenarios. The following is the pre-case score for correlation.
 - Event A – ML (Rapid Movement of Funds – All Activity (CU focus)) – 10
 - Event B – ML (CIB - Previous Average Activity (AC focus)) – 10
 - Event C – ML (HR Trans – Focal HRE (CU focus)) – 10
 - Total pre-case score – 30.

9.4.1.2 Total Transaction Amount and Risk Score

In this attribute, each event is scored. The total of the events scored contributes to the pre-case score.

- When event has total transaction amount \geq <Configurable amount> and risk score \geq <configurable risk score>, give X score to event. Risk scores for amounts can be segregated into 3 buckets. For dollar amounts transactions between 50K and 100K should be given a score of 20, 100K to 500K should be given as 30 and anything above 500K should be 50.
- Correlation is created for 2 events A and B by an ML and TF. Transaction amounts between 0 and 50000.99 get 10 points; Trxn amounts between 50001 and 100000 get 20 points; Trxn amounts > 100000 get 30 points. The Pre-case score should be calculated as below:
 - Event A – (Total amount of transactions - \$ 80K) - 20
 - Event B – (Total transaction amount - \$ 300K) - 30
 - Total pre-case score is 50 (A(20) + B(30) = 50)

9.4.1.3 Aging

Scores of the events in the correlation are decreased if the correlation is not consolidated to a case after some time. After a certain duration event is completely dropped from the correlation and shall be archived. The score reduction is configurable by country, jurisdiction, scenario, and time period.

In this attribute, each event is scored. The total of the events scored contributes to the pre-case score.

The following is the scaling for aging events that are members of un-promoted correlations. Age scaling must be configurable and can be changed from the following sample:

- Scenario Rapid Movement of Funds All Activity (all focal types) - When an event age reaches 3 months reduce the event score by 3
- Scenario Rapid Movement of Funds All Activity (all focal types) - When an event age reaches 6 months reduce the event score by another 3
- Scenario Rapid Movement of Funds All Activity (all focal types) - When an event age reaches 9 months reduce the event score by another 3
- Scenario Rapid Movement of Funds All Activity (all focal types) - When an event age reaches 12 reduce the event score to equal 0
- Drop and archive any event of correlation age for more than a year.

NOTE

You need to determine the process that would remove the event with a score of 0 from the correlation and close it with a specific reason.

Correlation is created for event A by (ML) Rapid Movement of Funds All Activity CU.

- The correlation creation date is 1st Jan 2016 and Event A with event creation date 1st Jan 2016 has an initial score of 10. So the pre-case score is 10.
- On 1st of February event B by (ML) Rapid Movement of Funds, All Activity CU with creation date 1st February 2016 is added to correlation. Event B score is 10 and the total pre-case score now is 20. $A(10) + B(10) = 20$
- On 1st April, event A age is now 3 months. Event A score will be reduced by 3 points to 7 and the total pre-case score is now 17. $A(7) + B(10) = 17$
- On 1st May, event B age is now 3 months. Event B score will be reduced by 3 points to 7 and the total pre-case score is now 14. $A(7) + B(7) = 14$
- On 1st July, event A age is now 6 months. Event A score will be reduced by 3 points to 4 and now the total pre-case score will be 11. $A(4) + B(7) = 11$
- On 1st Aug, event B age is now 6 months. Event B score will be reduced by 3 points to 4 and now the total pre-case score will be 8. $A(4) + B(4) = 8$.
- On 1st Oct, event A age is now 9 months. Event A score will be reduced by 3 points to 1 and now the total pre-case score will be 5. $A(1) + B(4) = 5$
- On 1st Nov, event B age is now 9 months. Event B score will be reduced by 3 points to 1 and now the total pre-case score will be 2. $A(1) + B(1) = 2$.
- On the 2nd Jan 2017 event, A age is now 12 months. The Score will be dropped to 0. And Event A will be closed and completely dropped from correlation. Event B is the only event in correlation and the total pre-case score will be now 1.
- On 2nd Feb 2017 event B age is now 12 months. The Score will be dropped to 0. And Event B will be closed and completely dropped from correlation.

9.4.2 Entity

This scoring rule defines various scoring criteria to be followed focusing on the entity attributes. The Entity scoring is performed on the following entity attributes:

- Watch List Screening
- Effective Risk

9.4.2.1 Watch List Screening

If the correlated entity is matched against screening specified watchlist, give the distinct customer a score. The total of the customer score contributes to the pre-case score.

For example,

Entity A (10 for ML event) and B (10 for ML event) are part of the correlation. The total pre-case score is 20. After some time Event C is added to the correlation. Event C involves entity C and entity C is matched to a specific WL (configurable). Matches to that WL receive a score of 60. The Event score for Event C is 10 for the ML event. The correlation also now has an entity score of 60 for Entity C.

Pre-case score = A(10) + B(10) + C(10) + Entity C (60) = 90

9.4.2.2 Effective Risk

If the correlated entity, effective risk \geq Y then increase customer score. The scale should be configurable by effective risk and jurisdiction.

The total customer score contributes to the pre-case. For example,

- Set up the rule to find the KDD CORR_LINK.BUS_NTITY_KEY_ID and KDD CORR_LINK.BUS_NTITY_ID for an in the correlation. Look at the respective business table (based on the BUS_NTITY_ID type) to find the Effective Risk.
- Event A Rapid Movement of Funds All Activity CU focus – scenario score of 10; Customer XXX has CUST. CUST_EFCTV_RISK_NB = 8
- Event B Rapid Movement of Funds All Activity CU focus - scenario score of 10; Same customer XXX has CUST. CUST_EFCTV_RISK_NB = 8
- Customer Effective Risk \geq 7 add 10 points
- Pre-case score = A(10) + B(10) + Cust XXX(10) = 30. Dev Note – this is on distinct customer in correlation

9.4.3 Correlation

This scoring rule defines various scoring criteria to be followed while creating an entire correlation. The score generated by correlation scoring contributes to the pre-case score. This is performed on the following criteria:

- Number of events
- Combination of Scenarios
- Total Transaction Amount
- Repeated Scenario Events

9.4.3.1 Number of events

- If the number of events in the correlation is more than X, increase the correlation score.
- Scaling of correlation by the number of events should be as below (scaling should be configurable by no. of events):

- Number of events greater than 3 and less than or equal to 5 should be given a correlation score of 30.
- The number of events between 6 and less than or equal to 10 will be given 40.
- Correlation with more than 10 events will be given 50.
- The additional score has to be added to the pre-case score.
- For example,
- A correlation has 4 events A, B, C, and D by ML. Event scores for 4 events are as follow.
 - A – 10
 - B – 20
 - C – 10
 - D – 30

The pre-case score will be now 70 but an additional 30 correlation score will be added to the pre-case score as the number of events in the correlation is 4. And correlation is promoted to the case.

9.4.3.2 Combination of Scenarios

- When correlation contains events from scenario X and Scenario Y at the same time consider correlation to add a score.
- The total of the correlation score contributes to the pre-case score.
- For example,
- Event A Rapid Movement of Funds All Activity CU focus and Event B Deposit Withdrawal Same or Similar Amount AC focus are correlated in the same correlation add 50 points
 - Event A – 10
 - Event B – 10
 - Correlation – 50
 - Pre-case score = 70

9.4.3.3 Total Transaction Amount

- If the total amount of transaction of the correlated events is greater than X amount, consider adding a score to correlation. Risk scores for amounts can be segregated into 3 buckets (configurable). For dollar amounts, the total of transactions across all correlated events is between 50K and 100K should give a score of 20, 100K to 500K should be given as 30 and anything above 500K should be 50. The transaction amount should be based on the matched binding for the total transaction amount (configurable to use a functional currency total transaction amount is scenario configured for it).
- The total correlation score contributes to the pre-case score.
- For example,
 - Event A ML scenario – total base transaction amount = 15000
 - Event B ML scenario – total base transaction amount = 40000
 - Event C ML scenario – total base transaction amount = 45000

- Total correlation transaction amount = 100000
- Score is A(10 for ML) + B(10 for ML) + C(10 for ML) + Correlation(30) = 60 for pre-case score

9.4.3.4 Repeated Scenario Events

- Increase the score of the correlation if events are generated for the same customer/entity within a configurable time period.
- Scaling for correlation by repeated scenario events should be as below:
 - Increase score by 30 if 2 events are created for the same entity/same scenario within look back period. The number of events and lookback are configurable.
 - Increase score by 50 if 3 or more events are created for the same entity/same scenario within look back period. The number of events and lookback are configurable.
- For example,
- Assume customer CU1 had an event A on Rapid Movement of Funds (RMF) on 1st July 2016 and which had a score of 50 to start with.
- On 28th July 2016, the customer had another RMF event B with an Event score of 30. But since this a repeat event for the same scenario on the customer within a (Repeated scenario event lookback) 31 days, the correlation score could be increased by say 20 points. So overall the pre-case would tip over to 100 which is the score required to convert the pre-case to the case.
- The total correlation score contributes to the pre-case score.

10 Promoting to Case

The chapter focuses on the following topics:

- [About Promoting to Case \(PTC\)](#)
- [Configuring PTC](#)

10.1 About Promoting to Case (PTC)

The group of events is identified for correlation-based on business entries in an application, for example, BD, CS, KYC, FATCA, TBAML, STDO, Third-party. This is performed based on the configurable set of rules. Once the correlation is defined, every entity will have event scoring, the entity will have entity scoring. Also, correlation scoring is performed. After scoring, an event can be promoted to the case if it crosses the defined threshold. This is decided based on pre-scoring. Pre-scoring is performed on event scoring, entity scoring, and correlation scoring.

The following event types are promoted to the case:

- BD
- CS
- KYC
- FATCA
- TBAML
- STDO
- Third-party

Once an event is promoted, an Administrator decides for Pre-case to the promotion and creates a case.

10.2 Configuring PTC

The scoring for PTC is performed in the Inline Processing Engine (IPE). For more information on scoring, see the [Scoring](#) section.

You can define the threshold to promote an event to the case using the Business Processor. A Business Processor encapsulates a business logic for assigning a value to a measure as a function of observed values for other measures.

To configure PTC, follow these steps:

1. Navigate to the ECM Home Page and select **Common Tasks** and select **Unified Metadata Manager**.
2. Click **Business Metadata Management** and select the **Business Processor**. The Business Processor page is displayed.
3. Click **Edit**. The Business Processor page is displayed.

Edit Business Processor
Business Processor Definition (Edit)

Business Processor Details

* Code: CSPCCLAS

* Short Description: Pre Case Classification For CS

Long Description

Parameters Save Cancel

Business Processor Definition

Dataset: DS_PRECASE_SCORE

Measure: PreCasePromotionFlag

Expression: case when FCC_PRECASE_SCORE.N_PRECASE_SCORE > 0 then 'Y' else 'N' end

Expression has Aggregate Function

User Info User Comments

User Info

Created By: SYSADMIN Creation Date: September 19, 2017 12:00:00 AM EDT

Last Modified By Modification Date

Authorized By: SYSADMIN Authorization Date: September 19, 2017 12:00:00 AM EDT

Figure 27: Adding Business Process

4. Enter the required details and click **Save**. For more information, see the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).
5. The new threshold limit is defined.

11 Configuring Processing Modelling Framework (PMF)

This chapter includes the following topics:

- [About PMF](#)
- [Pre-configuration Activities](#)
- [Accessing Process Modeller](#)
- [Configuring an ECM Workflow](#)
- [Editing of an ECM Workflow](#)
- [Deleting an ECM Workflow](#)
- [Implementing the ECM PMF Workflow](#)

11.1 About PMF

The Enterprise Case Management Processing Modelling Framework (PMF) facilitates built-in tooling for orchestration of human and automatic workflow interfaces. This enables the Administrator to create process-based ECM. It also enables the Administrator to model business processes and workflows.

Workflows that are created using PMF are available in the Case Designer for the administrator to associate for any Case Type.

For more information on Key Features, Architecture, and Components, see the latest Processing Modeling Framework section of [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

This section covers the following topics:

- [ECM Workflow Development Life Cycle](#)
- [ECM Workflows](#)

11.1.1 ECM Workflow Development Life Cycle

The ECM workflow follows various stages in the development lifecycle:

- **Modelling:** The CM Administrator models the workflow in line with the ECM requirement.
- **Implementing:** The CM Administrator implements the required service and ECM resources.
- **Deploying:** The CM Administrator integrates the Process with the ECM and deploys for execution.
- **Monitoring:** The CM Administrator monitors the current state of the Process after it is executed.

11.1.2 ECM Workflows

The following are default workflows available in the ECM:

- KYC
- AML
- CS-SAN
- CS-PEP & EDD

- FATCA
- TBAML
- KYCOB

NOTE You can also create new process workflow using the Add option. For more information, see the [Configuring an ECM Workflow](#) section.

11.2 Pre-configuration Activities

Before creating a workflow, the appropriate action and status should be present in the system. To perform this, you must add the entries in the respective application tables.

11.2.1 Configuring Status

The following are the pre-configuration activities for status:

- Add a new status if the required status is not seeded.
 - To add a new status, add the entries in AAI_WF_STATUS_B and AAI_WF_STATUS_TL tables of the Config Schema.
 - The package ID should be OFS_NGECM.
- Add the same entries in the KDD_STATUS table of the Atomic Schema.

11.2.2 Configuring Action

- Add a new action if the required action is not seeded. For more information on configuring the action, see the [Configuring Actions](#).

11.2.3 Configuring Attributes

You can define a new attribute that is used in the Attribute Expression Application Rule. These attributes are used for status changing actions in the Attribute Expression. Each attribute is identified with an ID APP_COMP_ATTR_MAP_ID, based on which the values for attributes can be fetched. To perform this, you must add the entries in the AAI_AOM_APP_COMP_ATTR_MAPPING table. The following is the format of this table:

Table 26: Configuring Attributes

| Column Name | Description | Example |
|----------------------|-------------------------|---------|
| APP_COMP_ATTR_MAP_ID | App ID of the attribute | |
| N_ATTRIBUTE_ID | The ID of the attribute | |
| V_ATTR_CODE | Name of the attribute | |

Table 26: Configuring Attributes

| Column Name | Description | Example |
|--|--|---|
| N_ATTR_TYPE_ID | The ID of the attribute type. The values of the attributes are fetched based on the attribute type. 1001- Static 1002- Query 1003- JavaAPI For more information, see the Attribute Types . | |
| V_ATTRIBUTE_VALUE1 V_ATTRIBUTE_VALUE2 | Values to be fetched for the attribute. Based on the attribute type, you need to pass the values. | <pre>t.action_cd,t.action_nm t.action_category_code t.action_category_code t.status_cd,t.status_nm s.v_role_code,s.v_role_code s.v_function_code = 'CMACCESS'</pre> |
| N_APP_ID | Application code for which the current attribute is configured. | |
| N_COMP_ID | Component code for which the attribute is configured. | |
| V_UDP_CODE | Special property is used by applications (user-defined). For example, 'GET_STATUS' –to get the status for the workflow. | |

1. Add the values in N_ATTRIBUTE_ID and V_ATTR_CODE columns. Here, the values of attributes are fetched based on the attribute types. Following are the attribute types with their IDs:

Table 27: Attribute Types

Table 28:

| Attribute Type ID | Attribute Type Name | Description |
|-------------------|---------------------|--|
| 1001 | Static | Store attribute values in the AAI_AOM_STATIC table as V_STATIC_ID and V_STATIC_VAL. |
| 1002 | Query | Enter the SQL query in V_ATTRIBUTE_VALUE1 in the AAI_AOM_APP_COMP_ATTR_MAPPING table, which has to be fired to fetch the attribute values. |
| 1003 | JavaAPI | Enter the method that is configured for V_ATTRIBUTE_VALUE1 for the required attribute. The configured method in the classpath is invoked to get the attribute values in this case. |

2. Define the query for the attribute in the V_ATTRIBUTE_VALUE1 column.

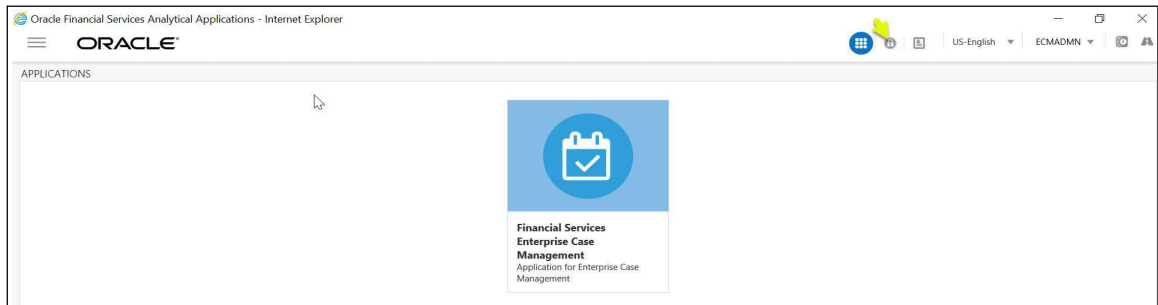
After the attribute is defined, you can access this using the Application Rule “Attribute Expression”. For more information, see the [Defining Application Rules](#) section.

11.3 Accessing Process Modeller

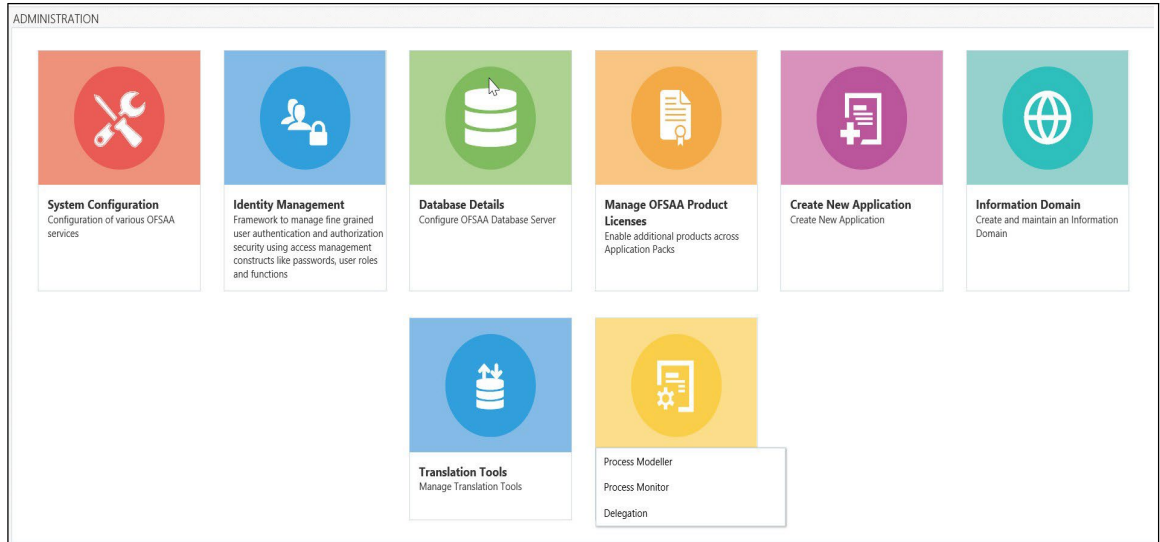
This section explains how to access the Process Modeller page.

To access the Process Modeller page, follow these steps:

1. Click the Administration icon.



2. The Administration page is displayed. Click the **Process Modeller** option from the **Process Modeling Framework**.



3. The Process Modeller window is displayed.

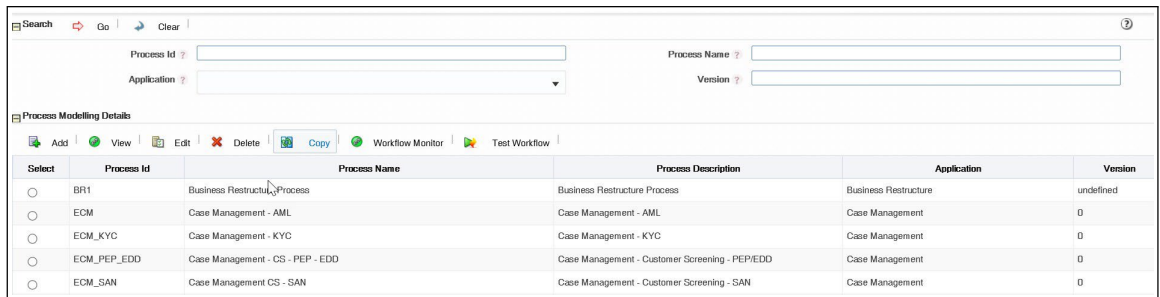


Figure 28: Process Modelling

The Process Modeller window displays the existing Processes with the details such as Process ID, Process Name, Process Description, Application, and Version. This window allows you to add a new Process, modify and delete the existing Processes, and monitor the workflow of the Processes. You can also export the Process definition.

Using the Search grid, you can search for a specific Process based on the Process ID, Process Name, Application, or Version.

11.4 Configuring an ECM Workflow

The following is a sample workflow (AML) used to demonstrate how to configure the workflows in the ECM using PMF.

The following sections are covered in this topic:

- [Creating Workflow](#)
- [Defining Datafields](#)
- [Defining Application Rules](#)
- [Using Process Modeller Editor](#)

11.4.1 Creating Workflow

This section explains how to create a new ECM workflow.

To create a workflow, follow these steps:

1. Navigate to the Process Modeller window under Processing Modelling Framework.

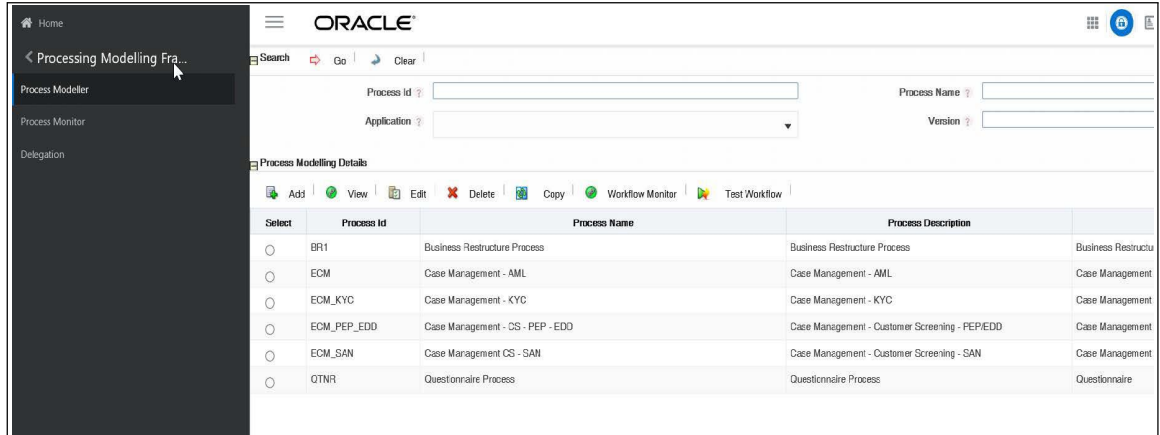


Figure 29: Process Modeller Window

2. Go to the Process Modelling Details section. Click **Add**. The Process Details window is displayed.

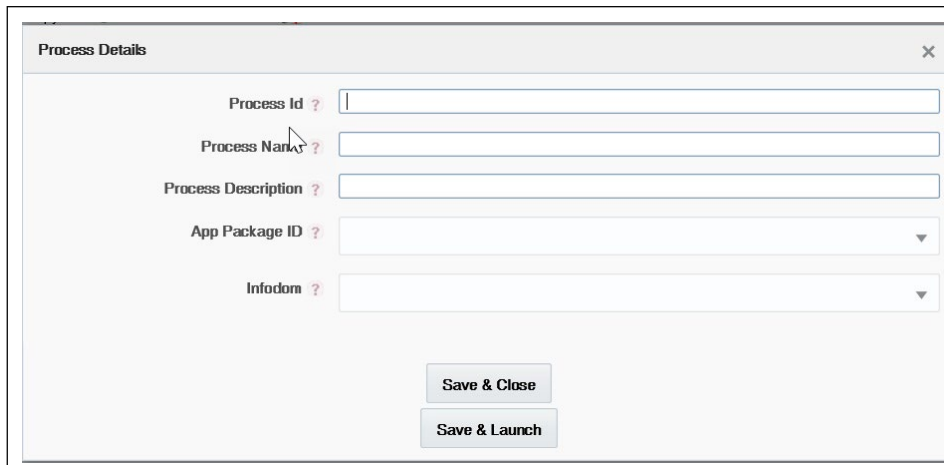


Figure 30: Process Details

3. Enter the following details in the Process Details window:

Table 29: Process Details

| Field Name | Description |
|------------|--|
| Process ID | Enter the new ECM workflow Process ID. |

Table 29: Process Details

| Field Name | Description |
|---------------------|---|
| Process Name | Enter the Process name for ECM workflow. |
| Process Description | Enter a brief description of the Process. |
| App Package ID | Select the <i>Case Management</i> from the App Package ID drop-down list. |
| Infodom | Select the ECMINFO from the Infodom drop-down list. This is the default Infodom. You can configure your own Infodom. It is the information domain in which you want to create the business process. |

4. Click **Save & Close** to save the definition and go back to the Process Modeller Summary window or **Save & Launch** to save the definition and open the Process Modeller Editor window.

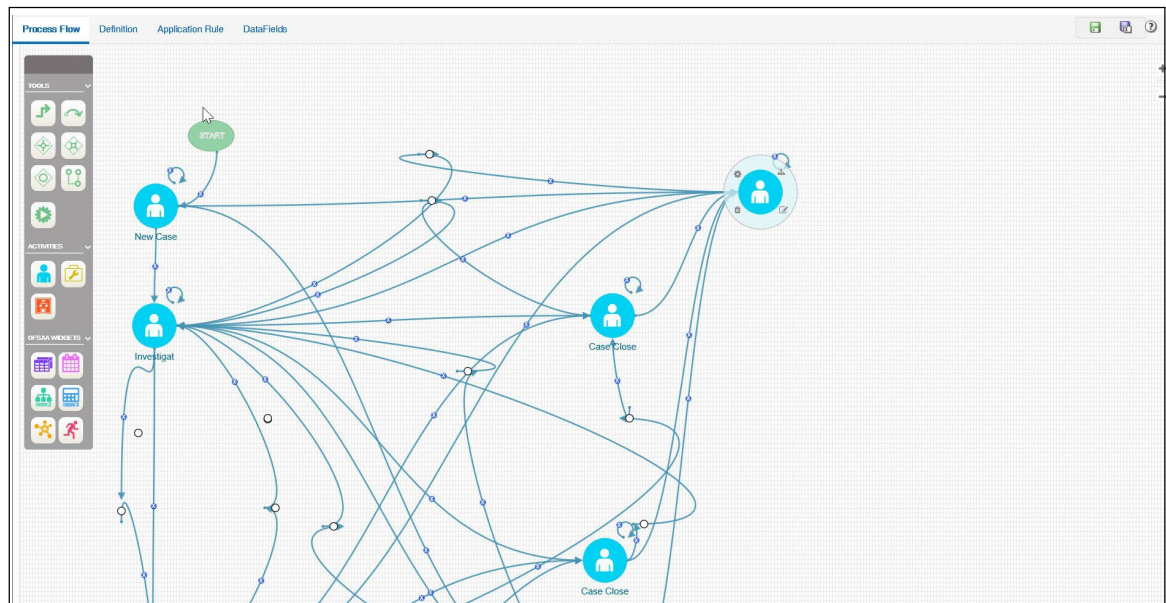


Figure 31: Process Modeller Editor window

11.4.2 Defining Datafields

Data Fields are Process variables which hold the data information required to be passed between ECM and Process Engine.

Data Field which is also known as Process Variable helps Processes to access and store information from outside the application. Often the process flow is based on the value of this information. In other cases, this information is the result of running the tasks in the process. This tab helps to view, add, edit, and delete Data Fields associated with the Process.

The defined Datafield is populated and used when you are defining a new Application Rule (Stored Procedure, Function, Java External API). It is used in the Input Parameter field.

For more information, see the [Defining Application Rules](#) section.

For more information on Datafields, see the Processing Modelling Framework section of [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

11.4.3 Defining Application Rules

Application Rules is the interface through which Process Engine executes the Application Business Logic and other Conditional logic. This tab helps to add, edit, and delete Application Rules associated with the Process.

The Application or API Rule is the interface between the process engine and the application, including any parameters to be passed.

Based on their usage these are categorized into three types.

- Execution Rule: These are Business Logic executed as Task by an Activity.
- Decision Rule: This rule returns the Boolean value “True/False”, used in decision making during split/branching of transition.
- Selection Rule: This rule fetches some value, useful to get value dynamically from a table or other source.

For example, select v_created_by from fct_expenses where id=101

Following are the supported Application Rule Types:

- SQL, JAVA
- Stored Procedure
- Function
- Java External API
- Webservices
- Outcome Rules
- Expression
- Attribute Expressions

For more information, see the Processing Modelling Framework section of [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

11.4.4 Using Process Modeller Editor

Using the Process Modeller Editor window you can perform the following tasks:

- [Adding Transition](#)
- [Adding an Activity](#)
- [Adding Transition](#)

11.4.4.1 Starting a Process

Using this component you can start a new ECM workflow.

To start a process, follow these steps:

1. Navigate to the Process Flow tab, click **Start** from the toolbar and then click the canvas where you want to draw the activity. The new Start icon is displayed. This Start activity indicates the first activity to be executed in the Process.
2. Double-click the **Start** icon.

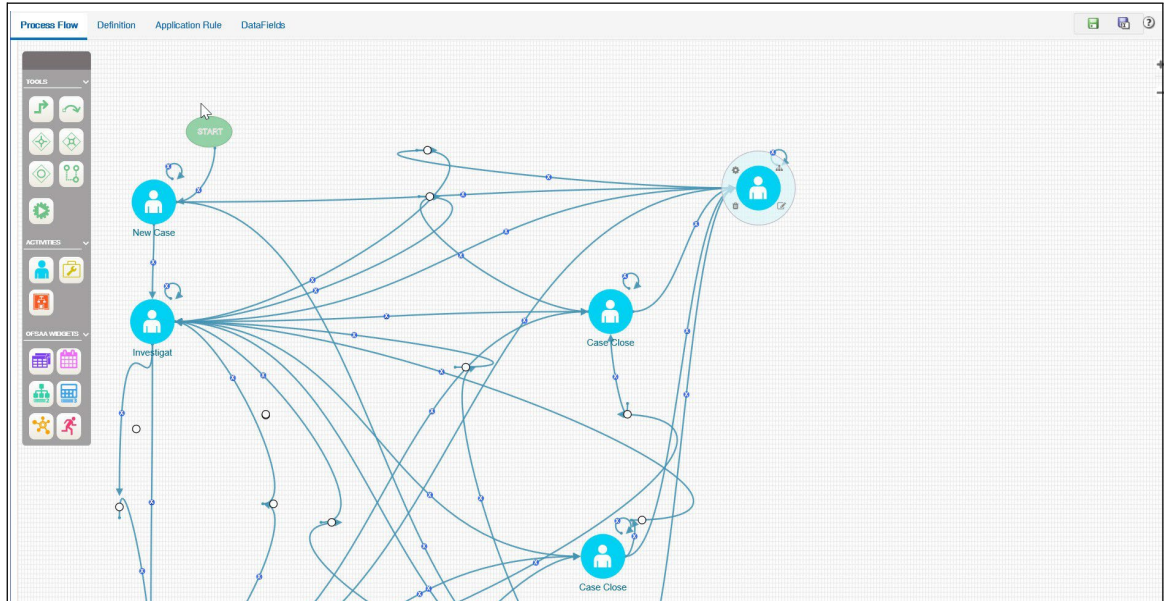


Figure 32: Starting Process

3. Enter the following information in the respective fields:

Table 30: Process

| Field Name | Description |
|---------------|---|
| Activity ID | Displays the automatically generated Activity ID. |
| Activity Name | The activity name is displayed automatically the same as the Activity ID. Modify the activity name if required. |
| Activity Desc | Enter the description of the Activity. |
| Activity Type | By default, the activity type of the selected activity is displayed. To change the activity type, select the required activity type from the drop-down list. The options are Manual, Automatic, Start, Parallel, Sequential, Connector, Run Task, Multi-choice, and sub-process. |
| Status | Select the status of the activity from the drop-down list. For example, Closed-SAR, New, Investigation. This is not applicable if the Activity is a Run Task. |
| Outcomes | Select the required Outcomes from the drop-down list. For example, Approve, Reject, or, Submit. This is not applicable if the Activity is a Service Task or Run Task. |

Table 30: Process

| Field Name | Description |
|-------------|--|
| File Upload | <p>Click Attachment and browse to select the file you want to upload. The progress of file upload is shown. The following message is displayed: <i>Your file has been uploaded</i> after the successful upload of the file.</p> <p>Only a single file can be uploaded. If you upload a new file, the existing file is replaced with the new one. Click the Attachment icon adjacent to the file name to remove the file.</p> <p>If a file is attached, the Attachment icon is displayed. Click the Attachment icon to view or save the file.</p> |

11.4.4.2 Implementing a Process

This section explains how to implement the newly created process. For more information, see the [Implementing a Process](#) section.

11.4.4.3 Adding Transition

This section explains how to add the transition to the newly created process. For more information, see the [Adding Transition](#).

11.4.4.4 Adding an Activity

To add an activity, follow these steps:

1. Click an activity under the Activities toolbar in the left panel and then click the canvas where you want to draw the activity. The options are Human Task, Service Task, Run Task, and Sub Process.
2. Double-click the icon. On the Right Panel, the Activity tab is displayed.
3. Enter the following information in the respective fields:

Table 31: Adding Activity

| Field Name | Description |
|---------------|---|
| Activity ID | Displays the automatically generated Activity ID. For example, Job_1504159648899. |
| Activity Name | The activity name is displayed automatically the same as the Activity ID. Modify the activity name if required. For example, New Case. |
| Activity Desc | Enter the description of the Activity. |
| Activity Type | <p>By default, the activity type of the selected activity is displayed. Select the activity type as Manual from the drop-down list.</p> <p>To change the activity type, you can select the required activity type from the drop-down list. The options are Manual, Automatic, Start, Parallel, Sequential, Connector, Run Task, MultiChoice, and sub-process.</p> |
| Status | <p>Select the status of the activity from the drop-down list as New.</p> <p>The list displays the seeded values in the AAI_WF_STATUS_B table.</p> |

Table 31: Adding Activity

| Field Name | Description |
|------------|--|
| Outcomes | Select the required Outcomes from the drop-down list. The list displays the seeded values in the AAI_WF_OUTCOMES_B table. This is not applicable if the Activity is a Service Task or Run Task |

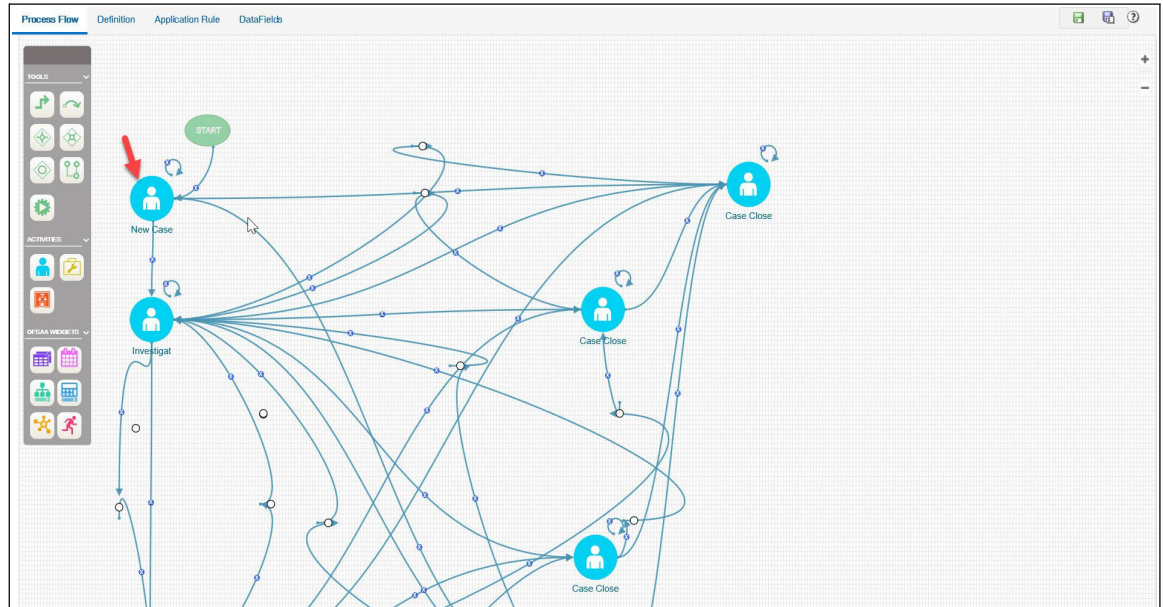


Figure 33: Adding Activity

11.4.4.5 Implementing an Activity

This section explains how to implement the New Case as an activity.

To implement the newly created activity, follow these steps:

1. Select the **Implementation** tab. The Implementation details are displayed.

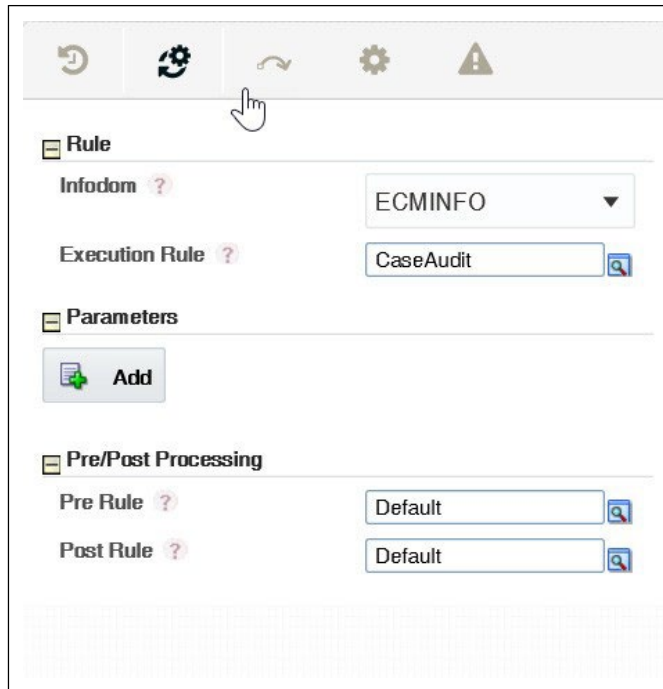


Figure 34: Implementing Activity

2. Go to the Rule section. Select ECMINFO as the information domain from the Infodom drop-down list.
3. Select the execution rule which must be executed for this activity. For example, Case Audit. Or, you can search for the execution rules using the **Search** icon.
4. For Run Task: Click **Search**. The Run Component Details window is displayed. Expand Base Run or Simulation Run and select the required Run definition from the Segment. Click **OK**.

11.4.4.6 Adding Transition

Using this component you can add the transition to New

Case. To add a transition, follow these steps:

1. Go to the Process Flow tab, click **Transition** from Tools.
2. Click the activity from which you want to start the transition.

Again, click the activity to which you want to connect the transition.

Double-click the Transition and enter the required details in the Edit Transition window.

Or Double-click the Activity for which you want to add a transition. On the Right panel, click the Transitions icon and click **Add**. The Add New Transition window is displayed.

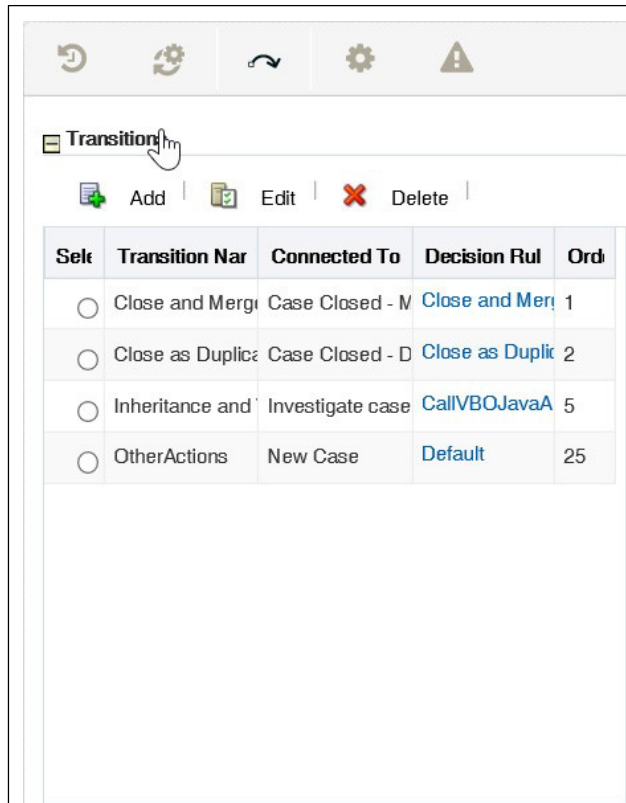


Figure 35: Add Transition

3. Enter the following information in the respective fields:

Table 32: Transition

| Field Name | Description |
|-----------------|--|
| Transition Name | Enter the Transition Name. For example, 404688668_Job_1495627226471 |
| Connected To | Select the activity (as New Case) to which you want to connect the current activity, from the Connected To drop-down list. All defined activities in the current Business Process are displayed. |
| Decision Rule | Select the appropriate Decision Rule by clicking the Search icon. This rule is validated during Process execution. If the output value is TRUE which indicates Success, the process has to flow through this transition to go to the next activity. If the output value is FALSE which indicates Failure, the current transition is ignored and the next transition is taken for evaluation if available. If all the transition rules fail (that is evaluated to value FALSE), then the Process remains in the current State. For more information, see the Defining Application Rules section. |

Table 32: Transition

| Field Name | Description |
|------------|---|
| Order | Enter the Precedence value based on which the transition Decision rules must be executed for multiple transitions, in the Order field. This affects transitions from a Sequential gateway only. |

4. Click **OK**. The transition has linked two activities. That is Start and New Case.

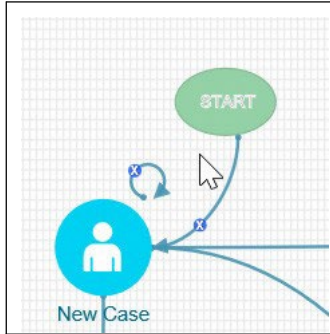


Figure 36: Adding Transition

11.5 Editing of an ECM Workflow

To edit an ECM workflow, follow these steps:

1. Navigate to the Process Modeller window.

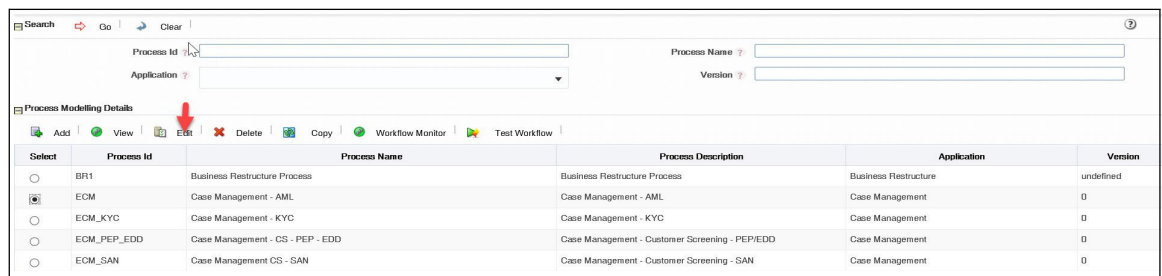


Figure 37: Process Modeller window

2. Select the workflow using the corresponding radio button.
3. Click Edit. The Process Modeller window is displayed for editing.

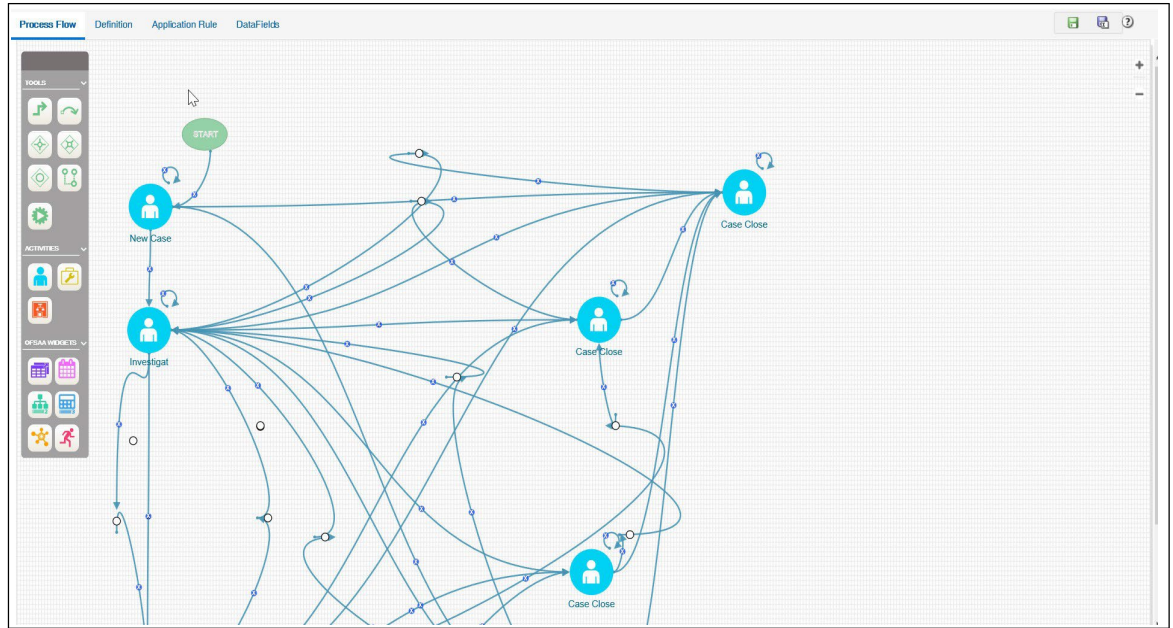


Figure 38: Editing Workflow

4. Make the required changes and click **OK**.

11.6 Deleting an ECM Workflow

To delete a workflow, follow these steps:

1. Navigate to the Process Modeller page under Processing Modelling Framework.
2. Select the workflow using the corresponding radio button.
3. Click **Delete**. A confirmation message is displayed.
4. Click **OK**.

11.7 Implementing the ECM PMF Workflow

PMF provides many features that can be used to create various types of case investigation workflows. This section guides the basic steps that are required to create a new workflow in PMF. For more details, refer to the AAI user guide.

11.7.1 Defining Metadata

Define the following metadata before creating a workflow in PMF:

1. Define ALL actions (status changing and non-status changing) in the KDD_ACTION table as mentioned in Table 33.

NOTE

The status changing actions in this table which are leftover from earlier versions are also displayed. These will be cleaned up over time. The status changing actions will have the OBS category, so these will not appear on the UI.

Table 33: KDD_ACTION Table

| Column Name | Description | Is column applicable to status-changing action? | Is column applicable to non-status-changing action? |
|----------------------|--|---|---|
| ACTION_ID | Unique identifier of the action which can be performed on a case. | X | X |
| ACTION_CATEGORY_CODE | A category within which this action is displayed on the Take Action window. For example, in OOB the action "Send Email" is displayed within a category called "Email". Action category is just a way to segment actions into logical groups for easy reading on the UI. This does not impact the action in any way. This field references the KDD_ACTION_CAT_CD column in the ACTION_CAT_CD table. | X | X |
| ACTION_CD | Unique code that identifies the action. E.g. CA123. This code is not displayed on the UI. | X | X |
| ACTION_DESC | Action name that is displayed on the Audit History tab. | X | X |
| ACTION_NM | Action name that is displayed on the UI except the Audit History tab. | X | X |
| ACTION_ORDER | Order used to display status and non-status changing actions on the Take Action window. | | X |
| DFLT_DUE_DT_LM | Enter the number of days. When this action is saved on the case, the system will automatically assign a due date to case = System Date + Number of days defined here. | X | X |
| REQ_DUE_DATE_FL | With the introduction of the Validation Framework, this column is no longer required and need not be populated. | | |
| LAST_ASSIGN_REQ | Flag used to assign the case back to the last assignee. That is if a user recommended a closing action but the action was rejected, the case may need to be reassigned to the user who recommended closure. This column is not used OOB post 805. Use the STATUS_CD from KDD_STATUS | | |

Table 33: KDD_ACTION Table

| | | | |
|-----------------------|--|----------------------|----------------------|
| NEXT_REVIEW_STATUS_CD | This column is used to record the resulting status of this action. Even though we now define the resulting status of a status changing action in PMF, this data should still be populated because ECM needs it for processing information other than just the case workflow. It is recommended that the resulting status defined here should be the same that is defined in PMF. | X | |
| REG_TYPE_CD | Unique identifier for the regulatory report type associated with an action (where applicable). | Only for CRR actions | Only for CRR actions |
| RESOLUTION_ACTION_FL | This value is required to mark which actions are resolution actions. Based on that we store some information in the KDD_CASES table. | X | |
| REQ_CMNT_FL | With the introduction of the Validation Framework, this column is no longer required and needs not to be populated. | | |
| REQ_REASN_FL | With the introduction of the Validation Framework, this column is no longer required and need not be populated. | | |
| REQ_REASN_OWNER_FK | With the introduction of the Validation Framework, this column is no longer required and need not be populated. | | |
| EXPORT_DIR_REF | Directory path on the server where the Export to the XML file is stored. Since we don't have that action anymore, this column is no longer required and need not be populated. | | |
| LAST_UPDATED_BY | User ID of the person who last updated this action. Not required but good to provide for auditing purposes | X | X |
| LAST_UPDATED_DT | The date on which this action was last updated. Not required but good to provide for auditing purposes | X | X |

Table 33: KDD_ACTION Table

| | | | |
|----------|---|---|---|
| CMMNT_TX | Comments added while adding this action. Not required but good to provide for auditing purposes | X | X |
|----------|---|---|---|

2. Define all statuses in the KDD_STATUS table as follows:

Table 34: KDD_STATUS Table

| Column Name | Description | Is column applicable to status-changing action? | Is column applicable to non-status-changing action? |
|------------------------------|--|---|---|
| STATUS_CD | Unique code for this status. This code is not displayed on the UI. | X | |
| STATUS_NM | Status name displayed on the UI. | X | |
| CLOSED_STATUS_FL | Indicator of whether this status is considered a "closed" status. | X | |
| CAN_NHRIT_FL | In previous releases, this column was used to indicate whether a case could be inherited when it is in this status. This is now handled by VBO in PMF. It is recommended that this value should be populated in sync with what's defined in PMF. | X | |
| VIEWD_BY_OWNER_ACTVY_TYPE_CD | In previous releases, this column was used to record the action code for the VBO action. This action would be recorded on a case with this status when the case was viewed by a user with privileges to own the case. This information is now defined in PMF. However, it is recommended that this value should be populated in sync with what's defined in PMF. | X | |
| VIEWD_RESULT_STATUS_CD | In previous releases, this column was used to record the resulting status of the VBO action. This information is now defined in PMF. However, it is recommended that this value should be populated in sync with what's defined in PMF. | X | |

3. Define which non-status changing action will be available for which user role in KDD_ROLE_ACTION_MAP table as follows:

| Column Name | Description | Is column applicable to status-changing action? | Is column applicable to non-status-changing action? |
|--------------------------|--|---|---|
| CASE_ROLE_ACTION_MAP_SEQ | Unique Sequence Identifier for this record. | | X |
| ROLE_CD | Unique code assigned to this user role. This field references the V_ROLE_CODE column in the CSSMS_ROLE_MAST table. | | X |
| ACTION_CD | Unique code that identifies the action. This field references the ACTION_CD column in the KDD_ACTION table. | | X |

- Define which non-status changing action will be available in which case status in KDD_STATUS_ACTION_MAP table as follows:

Table 35: KDD_STATUS_ACTION_MAP Table

| Column Name | Description | Is the column applicable to status-changing action? | Is column applicable to non-status-changing action? |
|----------------------------|---|---|---|
| CASE_STATUS_ACTION_MAP_SEQ | Unique Sequence Identifier for this record. | | X |
| STATUS_CD | Unique code for this status. This field references the STATUS_CD column in the KDD_STATUS table. | | X |
| ACTION_CD | Unique code that identifies the action. This field references the ACTION_CD column in the KDD_ACTION table. | | X |

- Define which non-status changing actions will be available for which case type in KDD_CASE_TYPE_ACTION_MAP table as follows:

Table 36: KDD_CASE_TYPE_ACTION_MAP Table

| Column Name | Description | Is the column applicable to status-changing action? | the column applicable to non-status-changing action? |
|------------------------------|---|---|--|
| CASE_CASETYPE_ACTION_MAP_SEQ | Unique Sequence Identifier for this record. | | X |

Table 36: KDD_CASE_TYPE_ACTION_MAP Table

| | | | |
|-----------------------|---|--|---|
| CASE_TYPE_SUB-TYPE_CD | Case Type Identifier. This field references the KDD_CASE_TYPE_-SUBTYPE column in the CASE_TYPE_SUB-TYPE_CD table. | | X |
| ACTION_CD | Unique code that identifies the action. This field references the ACTION_CD column in the KDD_ACTION table. | | X |

6. Add all statuses to AAI_WF_STATUS_B and AAI_WF_STATUS_TL tables in the Config schema
 - AAI_WF_STATUS_B table:
 - ii. Contains the status code and package map
 - iii. In STATUS_ID enter the status code used in KDD_STATUS.STATUS_CD
 - iv. The package ID should be OFS_NGECM if this workflow is for use with ECM
 - AAI_WF_STATUS_TL:
 - i. Contains the status name and package map
 - ii. Enter the Status ID, Status Name, and Status Description as you entered them in KDD_STATUS. (The Description should be the same as the Name)
7. The package ID should be OFS_NGECM if this workflow is for use with ECM

11.7.2 Creating the Workflow in PMF

1. **Add a new workflow** from the Process Modeler landing page. This creates a blank workflow and the system will navigate the user to a Process Modeler page. This page contains several tabs (Process Flow, Definition, Application Rules, and so on.) that will be used to create the workflow. Below are some of the basic things you will need to define to create a workflow in PMF.
2. Define the “Application Rules”
 - An “application rule” is a rule that is executed with an activity or a transition.
 - Several rules can be created in PMF (Stored Procedure, Attribute Expression, Java API, and so on) - all these rules need to be categorized as one of the three main types of rules:
 - **Execution Rule** – this is the business logic executed by the activity. For example, the OOB AML workflow includes an execution rule called “Case Audit”. This rule is used by all activities where the action leading to that activity is going to be recorded on the case audit history.
 - **Decision Rule** - This rule returns a “True/False” value that is used in decision making during a transition.
 - For actions that will be displayed on the Take Action window, an “Attribute Expression” decision rule should to be created. This is how PMF will know which action should be displayed on the Take Action window for which user role and in which case status. **To create an attribute expression** on the Application Rule tab:

Click on the **Add** button (on the top-left side of the tab) to open a menu. Select “Attribute Expression” from this list. “Rule Details” window is displayed.

On the Rule Details window, enter the name of this attribute expression.

Select “Action” in the Attribute drop-down and click Add. This will add a record in the Attributes Values section. In the Attributes Values section, the “Value” drop-down shows all the actions defined in KDD_ACTION. Select the action(s) you want to associate with this rule.

Select “Status” in the Attribute drop-down and click Add. This will add another record in the Attributes Values section. The Value drop-down displays all the statuses defined in KDD_STATUS. Select the status(es) you want to associate with this rule.

Now select “Role” in the Attribute drop-down and click Add. This will add another record in the Attributes Values section. The Value drop-down shows you all the roles defined for ECM. Select the role(s) you want to associate with this rule.

Click Save.

The screenshot shows the 'Edit API Details' window. Under the 'Attribute Selection' section, the 'Name' field contains 'Recommend Generate US SAR', 'Rule Type' is 'DecisionRule', 'Execution Type' is 'Attribute Expression', and the 'Attribute' dropdown is empty. An 'Add' button is visible below. The 'Attribute Values' section contains a table with three rows: 'Action', 'Status', and 'Role'. Each row has a red 'X' icon in the first column. The 'Value' column for 'Action' contains 'Recommend Close and Generate SAR', for 'Status' it contains 'Investigation', and for 'Role' it contains 'CMANALYST?'. A 'Save' button is at the bottom.

| | Name | Value |
|---|--------|------------------------------------|
| ✗ | Action | Recommend Close and Generate SAR ✗ |
| ✗ | Status | Investigation ✗ |
| ✗ | Role | CMANALYST? ✗ |

Table 37: Attribute Expression details window:

- ECM uses the “attribute expression” decision rules to determine which actions to display on the Take Action window. If an action is associated with an attribute expression, that action will be displayed on the Take Action window. Any status changing action that is not displayed on the take action window (e.g. Close and Merge from the Relationship tab) should be associated with an “Expression” decision rule instead of an attribute expression rule. Expression rules are simple rules like “If action code = X, move the case to the next status”. If there is a need to show this type of action only for specific user roles, use masking to achieve that.

Figure 39: Expression Details

- **Selection Rule** - This rule fetches some value, useful to get value dynamically from a table or other source. OOB ECM does not use selection rules.
 - Define application rules on the “Application Rules” tab within Process Modeler **before** drawing activities and transitions on the Process Flow tab.
 - Workflow logic determines which types of rules need to be created. OOB ECM only uses execution and decision rules.
 - For more information about application rules refer to the [AAI user guide](#)
3. **Draw the “activities”** (i.e. case statuses) on the “Process Flow” tab:
- An “activity” means a case status. From the Left-Hand-Side menu, add the applicable type of “activity” to the canvas.
 - Select a “Human Task” if human action is required to move the case to the next status. This is what will be used most of the time as almost all case workflows require a user to take any action that moves the case to the next status.
 - Select a “Service Task” if an automatic activity is going to move the case to the next status.
 - Select a “Sub Process” if you want to call another Process/ Workflow from your current workflow.
 - After selecting an activity and adding it to the canvas, double click on the activity to open a window (that has many tabs) to enter details about this activity.
 - On the first tab of this window, enter “Activity Details” as follows:
 - **Activity Name** = name of status. This name is just for use in PMF – ECM UI displays the status name defined in KDD_STATUS.
 - **Activity Description** = description of this status for use in PMF.
 - **Activity Type** = pre-populated based on the type of activity selected from the LHS menu (human, service, and so on) but can be changed as needed.

- **Status** = associate this activity with a status defined in the database. This drop-down list displays the values in the AAI_WF_STATUS_B table.
- **Outcomes** = OOB workflows do not use this setting. For more details about this setting, refer to the [AAI user guide](#)

The screenshot shows the 'Activity Details' tab in the Process Modeler. It contains the following fields:

- Activity ID: Job_1495627693041
- Activity Name: Case Closed SAR Filed
- Activity Desc: (empty)
- Activity Type: MANUAL
- Status: Closed - SAR Filed
- Outcomes: (empty)

Figure 40: Activity Details tab

- After defining “Activity Details”, **define rules on the second tab (IMPL)** and as follows:
 - **Execution Rule** = this is the business logic executed by the activity. For example, the OOB AML workflow includes an execution rule called “Case Audit”. This rule is used by all activities where the action leading to that activity is going to be recorded on the case audit history.
 - **Pre-rule and Post-rule** = select the API rule that needs to be run before reaching the activity (pre-rule) or while exiting that activity (post rule). “Exiting that activity” means that when you move out of this status this rule will be called. As an example: the OOB AML workflow uses an Execution Rule called “CallRRSJavaAPI” to call the RRS API for the “Close and Generate SAR” action.
 - To view/edit the OOB rules OR define a new rule, navigate to the “Application Rule” tab in Process Modeler.

The screenshot shows the 'IMPL' tab in the Process Modeler. It contains the following configuration:

- Rule**
 - Infodom: ECMINFO
 - Execution Rule: CaseAudit
- Parameters**
 - Add button
- Pre/Post Processing**
 - Pre Rule: CallRRSJavaAPI
 - Post Rule: Default

Figure 41: IMPL tab

- On the same window where users can enter activity details and execution rules, there are three more tabs with settings that can be defined for activities but we have not needed those for OOB workflows. For more information about these settings, refer to the [AAI user guide](#)

NOTE That even though transitions leading out of that status can be defined on the “Transitions” tab of this window, it is better to draw them directly on the canvas.

4. **Draw the “transitions”** (i.e. case actions) on the “Process Flow” tab within Process Modeler:
 - After adding activities to the canvas, add “transitions” between these activities.
 - A “transition” is an action that takes the case from one activity to another (that is, from one status to another).
 - From the left-hand-side menu on the Process Flow tab, add the applicable type of “transition” to the canvas.
 - Double click on the transition to open the “Edit Transaction” window and enter transaction details as follows:
 - **Transition name:** name of transition. This name is just for use in PMF; ECM UI displays the action name defined in KDD_ACTION.
 - **Decision Rule:** every transition should be linked to a decision rule.
 - For actions that will be displayed on the Take Action window, select an “Attribute Expression” rule from this drop-down list.
 - For actions that will not be displayed on the Take Action window (e.g. Close and Merge on Relationship tab), an “Expression” decision rule should be created.
 - Details of how to define decision rules expression are included.
 - **Order:** If multiple transitions have to run sequentially between 2 activities, this is the order in which the Decision rules for this transition will be executed. Note: The order in which actions are displayed on the Take Action window is defined in the KDD_ACTION table, not in PMF.
 - **Stroke:** this is the style in which the transition will be displayed on the Canvas (Process Flow tab). That is, users may choose to display some transition lines as “dotted” lines and some as “dashed” lines to make it easier to read the workflow diagram.



NOTE

Use a Connector when making multiple transitions between statuses. It makes the workflow diagram easier to read. Also, draw a circular transition on every status. Create a transition that circles back on the same status and name it “Other Actions”. Associated this transition with a “default” decision rule and give it a high order number. When ECM calls the PMF workflow, if there is no transition available for that Case, PMF considers the workflow completed for that case and the status will not change any further. If the circular transition is defined, it takes that path and waits for the next action.

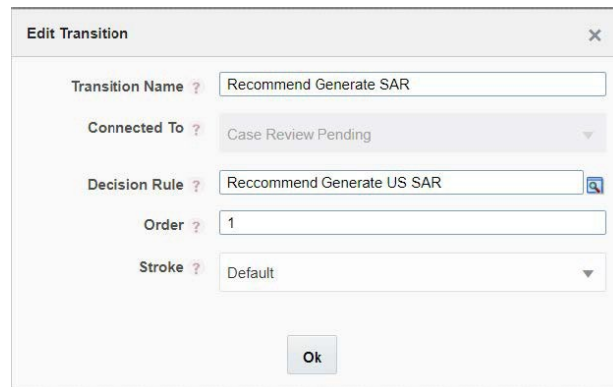


Figure 42: Edit Transition window

5. Data Fields

- Data Fields allow PMF to access and store information from the ECM application. Data Fields are passed from the ECM UI to PMF as part of an action and are used in application rules. E.g. when a user takes an action that moves the case to “Investigation” status, if an application rule has been defined that requires a specific transaction amount to be greater than a specific value before a case can be moved to that status; ECM will need to send that transaction amount as a Data Field to PMF. The application rule will use this data field to conduct the calculation and move the case to the next status only if the application rule returns True.
- For more information about Data Fields refer to the [AAI user guide](#).

Creating new data fields is possible in PMF but passing the value from ECM to PMF required a code change.

6. Save the workflow:

- Following two buttons on the Process Flow tab to save the workflow:
 - **Save** button – use this form of saving if you are creating a brand new workflow OR editing an existing workflow and do not need to maintain the previous version of that workflow. This button overwrites the workflow being edited. As a result, all cases (in-flight and closed) using that workflow will follow the modified workflow as soon as the changes are saved in PMF. New cases (of the Case Type(s) using this workflow) will also use this modified workflow.
 - **Save as New Version** button – use this form of saving if you are editing an existing workflow and do not want to change the version which you selected to edit. This button saves the modifications as a new version of the workflow and leaves the previous ver-

sion unchanged. The version number assigned to this new version = parent workflow's version number + 1. For example: If the parent workflow had a version number 4, this new version will have a version number 5. But just saving a new version of a workflow does not have any impact on any case unless this new version is mapped to a Case Type in Case Designer. When the Case Type-Workflow mapping is updated in Case Designer, all cases of that Case Type created after the update will use the latest workflow mapped to the Case Type. All older cases of that Case Type continue on the version they were using previously. The moment a case type is mapped to a different workflow, new cases will start using the new workflow (but old cases will not be impacted).

Note: In the Case of Designer you can associate any version of a workflow with a Case Type. Case Designer does not have any restrictions around which version of a workflow can be linked to a Case Type.

11.7.3 Mapping of Workflow to a Case Type(s) in Case Designer

1. For ECM to use a workflow, that workflow must be linked to one Case Type.
2. One workflow may be linked to more than one case type.
3. Case Designer provides the ability to link Case Types to PMF workflows as a part of the case type definition.

11.7.4 Steps to customize the “Checklist” functionality in ECM

1. Use case: A checklist has to be completed when a case has reached a pre-closing status (e.g. Decision Preparation). Only after a user has selected all items on the checklist can the case move to a different status.
2. Steps to accomplish:
 - Define each “item” on the checklist as a non-status changing action in KDD_ACTION.
 - Since the checklist actions are non-status changing actions, a user is expected to save all the checklist actions before taking a status changing action that closes the case.
 - Define this status-changing action (in KDD_ACTION) that the user will save AFTER the checklist actions have been saved on the case.
 - Define metadata for these actions so that ECM knows when to display these actions and add the status changing action to the PMF workflow.
 - Define a validation in the validation framework for this status-changing action to check if all the checklist actions have been recorded on the case. If they have, the system will allow the user to save the status-changing action and close the case. If not, the system will not allow the user to close the case.

11.8 Configuring CRR Workflows in PMF

You can configure CRR workflows for various STRs.

1. Navigate to the Process Modeller window.
2. Go to Case Management-AML. A new window with workflow will open.
3. To create a new rule, click the **Application Rule tab**. Click Add and select Attribute Expression from the drop-down.
4. Enter the following details in Attribute expression:

- Name: User-specific details such as **generate GO AML** and so on.
 - Attribute: Select Action from Attribute drop-down and click Add. Select user-specific actions such as Generate GO STR, Generate CA STR, and so on.
 - Attribute: Select Role from Attribute drop-down and click Add. Select CMSUPRVISR
 - Attribute: Select Status from Attribute drop-down and click Add. Select status that you want to be posted such as new, Investigation, and so on.
5. Click Ok to save.
 6. Go to Process Flow. Select the pipeline coming from 'Investigate case' to 'Case closed SAR Filed' and double click on it.
 7. Edit Transition window will display. In Edit Transition, provide the Transition name of STR such as **generate GO AML**. Select the rule that was created in step 3 from Decision Rule.
 8. Click Ok.
 9. Click Save.

11.9 Configuring Change Case Type Action in PMF

This section describes the overview and PMF configuration.

Overview

This section outlines how to configure PMF to allow for the Change Case Type action. This features allows a user to select a target case type and the resulting status the case should be in when the case type is changed. The action is only available to user roles and statuses as defined in the source workflow. In PMF the source workflow will display 'change case type' transitions from each status where the action can be taken pointing to 'dummy' task that acts as a portal to the target workflow. The target process flow will in turn have transitions coming in to each status in which the user can land once the case type is changed. If a user can come into and out of a single workflow you will see both in and out transitions in the workflow.

NOTE:

- When the user selects from the list of case types they view all case types they have permission to see.
- When the user selects from the list of statuses available in the target case type the list displays all statuses in the target workflow. If the target workflow is not configured to allow the case to be landed in that status then it will default to the 'New' status once the case type is changed.

PMF Configuration

For PMF configuration, follow these steps:

1. Configuring the Source Workflow:
 - a. Create a new Attribute Expression to define each change case type action, who can take that action and in which statuses it should be available. This will result in a new expression for each status where the user can change the case type.
 - b. The Action attribute must have the value of 'Change Case Type' defined (code 1007)
 - c. For the NextStatus attribute if you want to have every status in the workflow allow the change case type action then do not define the NextStatus attribute. This expression can then be reused for all transitions.

2. In the Process Flow:
 - a. Add a manual task and name it something like 'Change Case Type'. This is the dummy portal task and nothing else needs to be defined.
 - b. Draw a transition from each status where the Change Case Type should be displayed pointing to portal status.
 - c. In the properties of the transition, select the Attribute Expression created for that status (from #1 above).
 - d. The portal status should also have a self-transition loop to ensure that the workflow doesn't end at that status.

3. Configure the Target Workflow. In all the workflows for the case types which the user can select, perform the following tasks:
 - a. Create an attribute expression for each status where the user can land in the target workflow.
 - i. The attribute expression only needs to have the NextStatus attribute added and the value should be the status where it can land.
 - ii. It is best to name the expression as one that is related to changing the case type.
 - b. In the Process Flow add a Service Task.
 - c. From Start draw an arrow so it only goes to the Service Task. WHAT DO I NEED TO DEFINE HERE?
 - d. From the Service Task draw a transition to all the statuses in which the user can land.
 - e. In the properties of those transition select the NextStatus attribute expression for that status (as created in #3a).
 - f. Draw a transition from the Service Task to the New status (or whatever status indicates it is a new case)
 - i. This transition will not have any rule defined but the order should be a large number. This is because, if the workflow cannot find a route to the status the user selected it will default to land it in New.

4. If the users can change back to the source workflow from the target:
 - a. In the Target workflow, create and draw the transitions and portal status as defined above.
 - b. In the Source workflow, from the portal status draw transition to each of the statuses the case can land back in. These transitions should only have the NextStatus attribute.

12 Managing Case Designer

This chapter explains the concept behind Case Designer and configuring a case using the Case Designer UI by the Administrator user.

The following topics are covered in this chapter:

- [About Case Designer](#)

- [Accessing Case Designer](#)
- [Case Designer Home page](#)
- [Defining Case Class](#)
- [Defining Case Type](#)

12.1 About Case Designer

Case Designer allows to configure Case Class, Case Type, and associated definitions. Based on the configuration, definitions are dynamically rendered in the Case Management application to investigate cases and take appropriate actions on them for case resolution.

- **Case Class:** Create a case class or use an existing one. A Case Class is a grouping definition (AML, Fraud, and KYC). Case Type is where the case is actually defined. Each Case Type is associated with a Class and a Class can have multiple Case Types.
- **Case Type:** In the case type, the majority of the case definition is made. Here, you can define the various attributes associated with the case as well as the business entity tabs and the workflows that all cases of this type will follow.
- **Case Attributes:** Case attributes are specific data fields that can be associated with a case. Many of these are required and come pre-selected out of the box. These attributes are applicable to all cases regardless of type. Other attributes can be added to the individual case Type and custom attributes can also be created. For each case type parameters can be set to control how that attribute behaves.
- **Case Entities:** Case Entities are the tabs that are seen when viewing a case. Entities are related to two types: business data and operational. Business data entities are items like customer, account, and correspondent bank. After selecting one of these entities, it will be displayed when viewing a case. Operational Entities are mandatory for a case type. These are types, like Audit Trail, Narrative, and Evidence which are necessary to disposition a case.
- **Case Workflow:** The case type's workflow is first defined in AAI's Process Modeling Framework application. Once it is created there it can be selected for a specific case type. Each case type can only have one workflow.

Below is a list of features:

- Create and modify Case Class and Case Type definitions.
- Case Class is the topmost definition through which a case is created.
- Case Type provides a detailed classification of a case. For example, you can create a Case Class as *AML* and Case Type as *AML Surveillance* and related Attributes (*Jurisdiction, Business domain, and so on*), Entities (*Narrative, Evidence, and so on*), and Workflow (*Case Management*)
- Define related attributes, entities, and workflow in the Case Type.
- Case Type definitions control the display of tabs and fields on the Case Management UI.

- Changes to Case Class and Case Type definitions are automatically reflected in the Case Management UI.

NOTE From release 8.0.5.0.0 onwards, Case Purge utility is not available.

12.2 Accessing Case Designer

This section explains how to access the Case Designer page.

To access the Case Designer page, follow these steps:

1. Navigate to the Case Management Configuration page. For more information on how to navigate to the Case Management Configuration page, see [Getting Started](#).
2. Click **Case Designer**. The Case Designer page is displayed.

12.3 Case Designer Home page

This section displays the list of previously added Case Classes or Case Types and overview in a 3D Pie chart. This also allows you to add a new Case Class or Case Type.

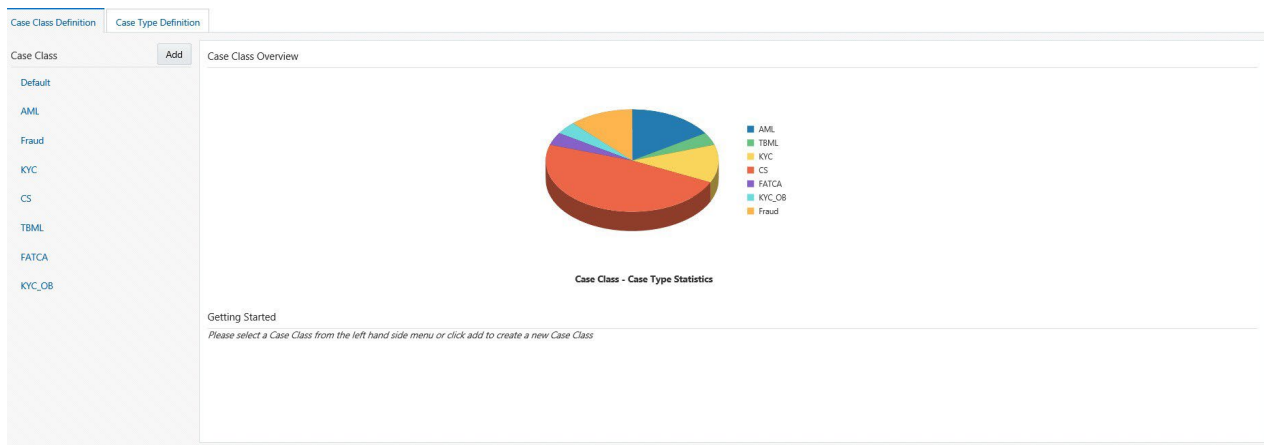


Figure 43: Case Designer Home Page

To view the Case Designer Home page, follow these steps:

1. Navigate to the Case Designer page.
2. Click the **Case Class Definition** or **Case Type Definition** tab. The previously added Case Class or Case Type list is displayed in the Left Hand Side (LHS) menu.
3. Select the **Case Class Definition** tab and go to the **Case Class Overview** section. Hover over the Statistics pie chart. The number of case types created under a particular case class is displayed.
4. Or, select the **Case Type Definition** tab and go to the **Case Type Overview** section. Hover over the Statistics pie chart. The number of cases created under a particular case type is displayed.

- Using the Case Designer Home page, you can also add a new Case Class or Case Type. For more information, see [Adding Case Class](#) or [Adding Case Type](#) sections.

12.4 Defining Case Class

This section explains key features and how to define a Case Class.

The following topics are covered in this section:

- [About Case Class](#)
- [Adding Case Class](#)
- [Editing Case Class](#)

12.4.1 About Case Class

- A Case Class is the topmost definition through which a case is created.
- Used for grouping case types.
- Add and modify the case class.
- Does not impact directly on the ECM workflows.
- Updated even if cases are linked to case type.
- Cannot remove existing case classes.

12.4.2 Adding Case Class

This section explains how to add a new case class. For example, AML and Fraud.

To add a new case class, follow these steps:

- Navigate to the Case Designer page.
- Click the **Case Class Definition** tab.
- Click **Add**. The Case Class Definition page is displayed.

The screenshot shows the 'Case Designer' application window. At the top, there are two tabs: 'Case Class Definition' (which is active) and 'Case Type Definition'. Below the tabs, there is a sidebar on the left labeled 'Case Class' with an 'Add' button. The sidebar contains a list of case classes: Default, AML, Fraud, KYC, CS, and TBML. The main area of the window is titled 'Case Class Definition' and contains two input fields: 'Case Class' (with a red asterisk indicating it is required) and 'Description'. At the bottom right of the main area, there are 'Save' and 'Cancel' buttons.

- Enter the following information in the respective fields.
- Click **Save**. The following message is displayed: *Case Class is created successfully*.
- Click **OK**. The Case Class is added to the Left Hand Side (LHS) menu.

12.4.3 Editing Case Class

This section allows you to modify the existing case classes. Any change to the case class is reflected in the ECM UI.

NOTE A Case Class is updated even if cases are linked to the case type.

To modify a case class, follow these steps:

1. Navigate to the Case Designer page.
2. Click the **Case Class Definition** tab.
3. Select the existing case class in the LHS menu. The case class details are displayed in the RHS panel.
4. Modify the necessary information in the required fields.
5. Click **Save**. The following message is displayed: *Case Class is updated successfully*.
6. Click **OK**. The Case Class is updated in the LHS menu.

12.5 Defining Case Type

This section explains key features and how to define a Case Type in the Case Designer.

This section covers the following topics:

- [About Case Type](#)
- [Adding Case Type](#)
- [Editing Case Type](#)

12.5.1 About Case Type

- A Case Type is the second level definition after Case Class through which cases are created.
- Provides a more detailed classification of a case. For example, If the Class is *AML*, the Type can be *AML Surveillance*.
- Add new case types and modify the existing case types.
- Define related attributes, entities, and workflow.
- Controls the display and behavior of fields on the Case Search, Case Context, Create Case page.
- Determines the display of tabs in the Case Summary page, and drives the case action workflow.
- Must associate one Workflow to the Case Type.

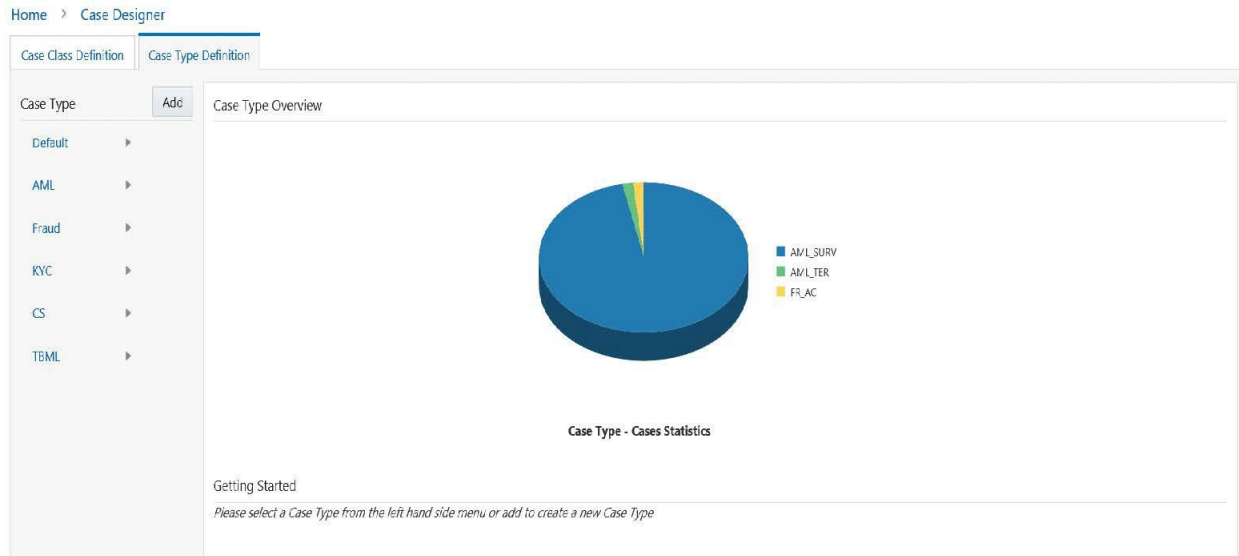
The data displayed on the tab is not controlled by case type.

12.5.2 Adding Case Type

This section how to add a new case type to the existing case class along with related attributes, entities, and workflow.

To add a new case type, follow these steps:

1. Navigate to the Case Designer page.
2. Click the **Case Type Definition** tab.



3. Click **Add**. The Case Type Definition page is displayed.

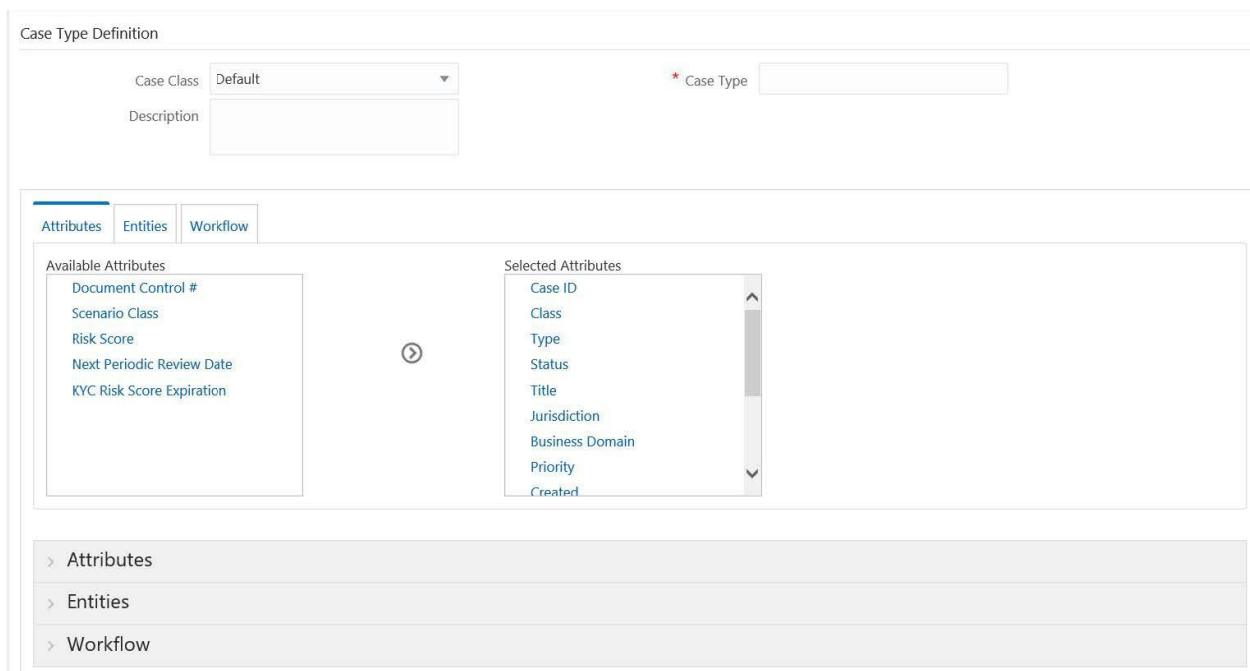


Figure 44: Case Type Definition Page

4. Enter the following information in the respective fields.

NOTE The fields marked with * (asterisk) are mandatory. The Save button is disabled till you enter mandatory fields. You must associate one Workflow to the CaseType. For more information on associating a workflow, see [Defining Workflow](#) section.

5. If you want to create a case type with only default fields, click **Save**. The following message is displayed: *Case Type is created successfully*.
When you modify case type definitions, you cannot edit the Case Type name.
6. The Case Type is created with the default attributes, entities, and workflow. The newly created Case Type is added in the LHS menu under the respective Case Class.
7. Or, if you want to add optional definitions to Attributes, Entities, or Workflow sections of newly created case type, then continue with [Configuring Optional Definitions in CaseType](#) section.

12.5.2.1 Configuring Optional Definitions in CaseType

This section explains about optional definitions and how to manage them in Case Designer.

This section covers the following topics:

12.5.2.1.1 About Optional Definitions

- Additional attributes and entities are defined as optional definitions.
- If any optional definitions are removed from the Case Type, then it is not shown in the Case Summary. This impact is generic irrespective of the status.

12.5.2.1.2 Defining Attributes

This section describes additional attributes definitions and how to configure them in the Case Type.

The following sections are covered in this topic:

- [About Attributes](#)
- [Adding Optional Attributes to the Case Type](#)
- [Deleting Attributes](#)

12.5.2.1.2.12 About Attributes

- Attributes are fields that display on the Case Search, Case Context, and Create Case page of ECM UI.
- Classified into mandatory and optional definitions.
- Mandatory Attributes - Case ID, Class, Type, Status, Title, Jurisdiction, Business Domain, Priority, Created, Owner Organization, Due, Owner, Closed, Assignee, Description.
- Optional Attributes - Document Control, Scenario Class, and Risk Score.

- Configure Attributes definitions to show or hide them on ECM UI.
- By default, all mandatory attributes are shown in the Attributes section.
- Can add or remove only optional attributes using Case Designer.
- Dynamic rendering of the attributes based on their behavior across the different case pages. For example, the Case ID attribute is hidden on the Create Case page but it is disabled on the Case Context page.
- Whenever changes happen to attributes those changes are reflected on all case-related pages based on its behavior in the Enterprise Case Management UI.

12.5.2.1.2.12 Adding Optional Attributes to the Case Type


This section explains how to add optional attributes to a case type. By default, optional attributes are displayed in the Available Attributes box. The mandatory attributes are displayed in the Selected Attributes box. You can select optional attributes and move them to the Selected Attributes box. All attributes that are in the Selected Attributes box appear as fields in the case related pages of ECM UI based on its behavior.

To add optional attributes, follow these steps:

1. Navigate to the Case Type Definition page.
2. Click the **Attributes** tab. The optional attributes are displayed in the *Available Attributes* menu.

Figure 45: Attributes Page

3. Select the required attributes from the **Available Attributes** menu and click  button. The selected optional attributes are moved to the **Selected Attributes** menu and these are displayed in the Attributes sections.

NOTE The newly added attributes are marked with  icon.

4. Click **Save**. The following message is displayed: *Case Type is created successfully.*


NOTE If you modify existing Case Type attributes, the following message is displayed: *Case Type is updated successfully.*

5. Click **OK**. The Case Type is updated with optional attributes.

12.5.2.1.2.12 Deleting Attributes

This section explains how to remove optional attributes from the Case Type.

To remove optional attributes, follow these steps:

1. Navigate to the Case Type Definition tab.
2. Select the required Case Type. Go to the Attribute section.
3. Click  against the required attributes to remove from the Attributes section. The deleted attributes are moved back to the Available Attributes box.
4. Click **Save**. The Attribute section is updated.

NOTE The deleted attributes are not displayed on the case related pages in the Enterprise Case Management UI.

12.5.2.1.3 Defining Entities

This section describes an Entity and how to configure it in the Case Type.

The following sections are covered in this topic:

- [About Entities](#)
- [Adding Optional Entities to the Case Type](#)
- [Deleting Entities](#)

12.5.2.1.3.12 About Entities

- Entities are tabs that display on the Case Summary section of ECM UI after you define them in Case Designer.
- Defines entities to show or hide them on the Case Summary.
- Entities are classified into the following:
 - **Mandatory Entities** – These entities are by default associated to the case type at the time of creation. These entities cannot be disassociated from the case type.

- Optional-Default Entities - These entities are by default associated to the case type at the time of creation. These entities can be associated/disassociated to/from the case type using Case Designer. Evidence, Relationship, Audit History are the Optional-Default entities provided out of the box.
- Optional Entities - These entities are not by default associated with the case type at the time of creation. These entities can be associated/disassociated to/from the case type using Case Designer. Event Details, Narrative, Correlation, Account, Customer, Employee, Household, Investment Advisor, External Entity, Correspondent Bank, Transactions, Financials, Involved Party, Network Analysis, Customer Screening, KYC Risk Score, External Entity Screening, Trade Finance, Real-Time Screening are the Optional entities provided out of the box.
- Case Summary section of ECM UI display entities (tabs) even there is no data is associated with the entity.
- Add or remove only optional and optional-default entities.
- Ordering of entities can be configured.
- Whenever changes happen to entities those changes are reflected in the Case Summary section for that Case Type in Enterprise Case Management UI.

12.5.2.1.3.12 Adding Optional Entities to the Case Type

This section explains how to add optional entities to a case type. By default, optional entities are displayed in the Available Entities menu. The mandatory entities are displayed in the Selected Entities menu. You can select optional entities and move them to the Selected Entities menu. All entities that are in the Selected Entities menu appear as tabs on the Case Summary page of ECM UI.

To add optional entities, follow these steps:

1. Navigate to the Case Type Definition page.
2. Click the **Entities** tab. The optional entities are displayed in the *Available Entities* menu.

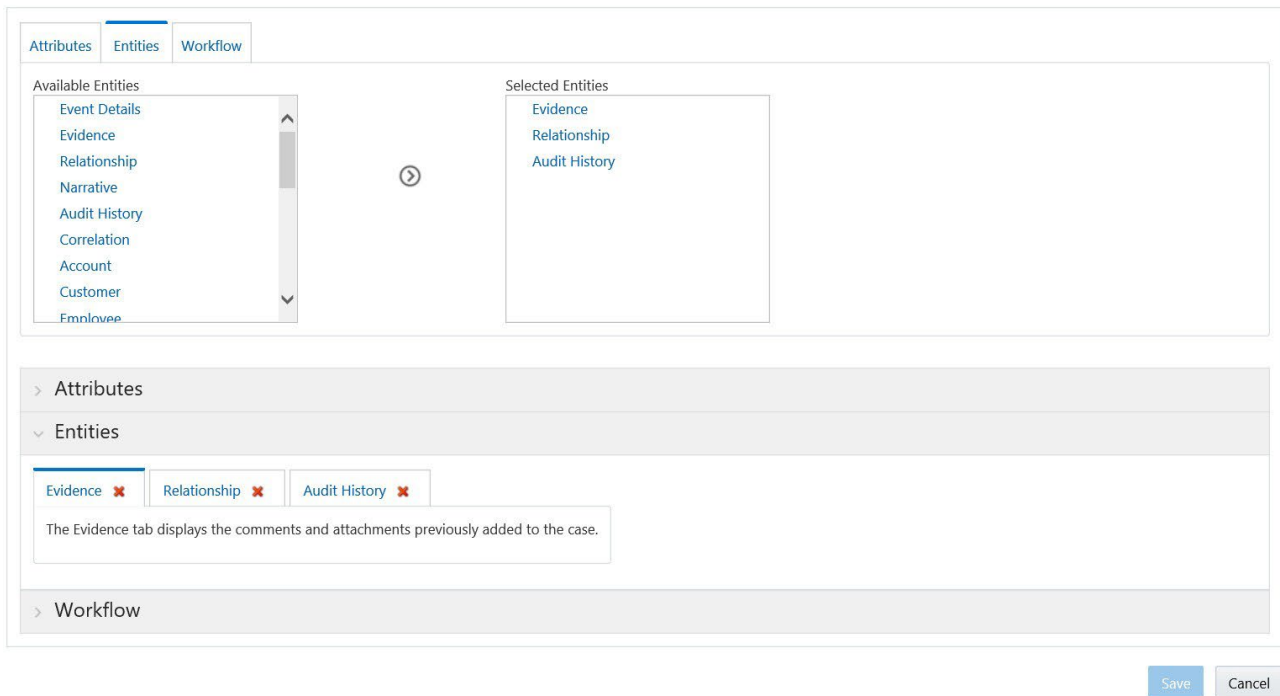


Figure 46: Entities Page

3. Select the required entities from the **Available Entities** menu and click button. The selected optional entities are added to the **Selected Entities** menu and these options are displayed in the Entities sections as tabs.

NOTE The newly added entities are marked with icon.

4. Select the required tab. Hold it and move to position it according to your requirements.
5. Click **Save**. The following message is displayed: *Case Type is created successfully.*

NOTE If you modify existing Case Type Entities, the following message is displayed: *Case Type is updated successfully.*


6. Click **OK**. The Case Type is updated with optional entities.

12.5.2.1.3.12 Deleting Entities

This section explains how to remove optional entities from the case type.

To remove optional entities, follow these steps:

1. Navigate to the Case Type Definition tab.
2. Select the required Case Type. Go to the Entities section.

3. Click  against required entities to remove from the Entities section. The deleted entities are moved back to the Available Entities menu.
4. Click **Save**. The Entities section is updated.

NOTE

The deleted entities (tabs) do not display on the Case Summary section in the Enterprise Case Management UI.

12.5.2.1.4 Defining Workflow

This section describes the workflow and its usage in case type.

The following sections are covered in this topic:

- [About Workflows](#)
- [Adding Workflow](#)
- [Deleting Workflow](#)

12.5.2.1.4.12 About Workflows

- Workflows are tabs that display on the Case Summary section of ECM UI after you define them in the Process Modelling Framework (PMF). For more information, see the Process Modelling Framework section.
- Only one workflow selection at a time

12.5.2.1.4.12 Adding Workflow

This section explains how to add a workflow to a case type. The workflow selection is optional for a case.

By default, the list of defined workflows will be displayed in the **Available Workflows** box. You can select the workflow and move them to the **Selected Workflows** box. The workflow that is in the **Selected Workflows** box appear as fields in the case related pages of ECM UI based on its behavior.

To add a workflow, follow these steps:

1. Navigate to the Case Type Definition page.
2. Click the **Workflow** tab. The defined workflows are displayed in the **Available Workflows** menu with the following format:

Process Name (ProcessID) - v#

Here,

Process Name is the name of the workflow.

ProcessID is the unique identifier assigned to this workflow.

v indicates that a version number is going to follow.

is the actual version number assigned to this workflow.

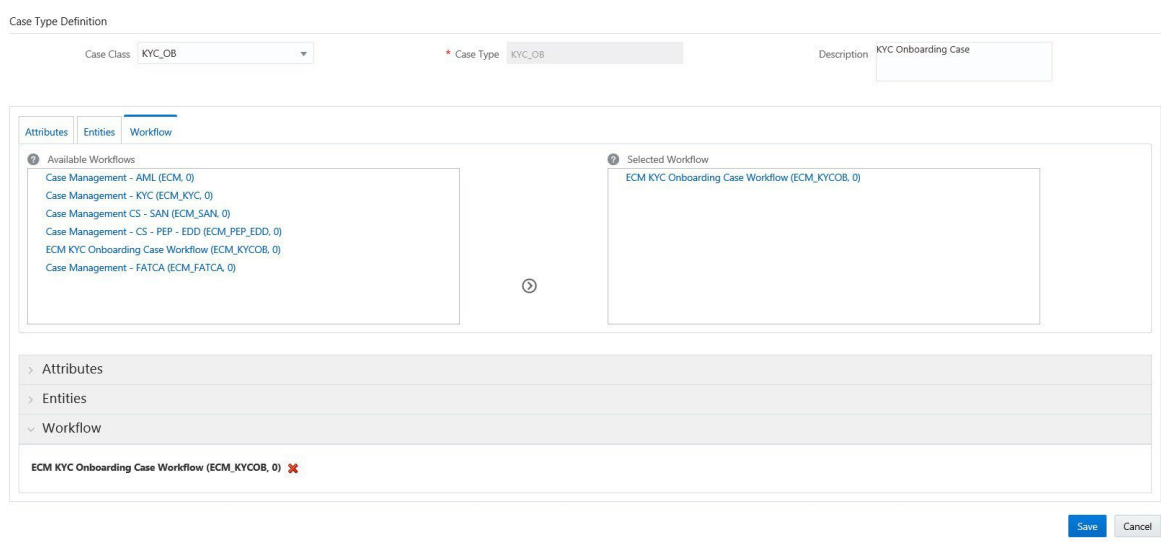


Figure 47: Workflow Page

3. Select the required workflow from the **Available Workflows** menu and click button. The selected workflow is moved to the **Selected Workflows** menu and these are displayed in the Workflow sections.

NOTE The newly added workflow is marked with icon.

4. Click **Save**. The following message is displayed: *Case Type is created successfully.*

NOTE If you modify existing Case Type attributes, the following message is displayed: *Case Type is updated successfully.*

12.5.2.1.4.12 Deleting Workflow

This section explains how to remove the workflow from the Case Type.

To remove the workflow, follow these steps:

1. Navigate to the Case Type Definition tab.
2. Select the required Case Type. Go to the Workflow section.
3. Click against the required workflow to remove from the Workflow section. The deleted workflow is moved back to the **Available Workflows** box.
4. Click **Save**. The Workflow section is updated.

12.5.3 Editing Case Type

This section describes how to modify existing Case Type definitions.

To modify a case type, follow these steps:

1. Navigate to the Case Designer page.
2. Click the **Case Type Definition** tab.
3. Select an existing case type in the LHS menu. The Case Type Definition page is displayed.
4. Modify the necessary details in the Case Class and Description fields.
Case Type is not editable.
5. Click **Save**. The Case Type Definition section is updated.

The modified Case Type definitions are updated in the Enterprise Case Management UI.

To modify or delete Attribute or Entity definitions, see [Defining Attributes](#) and [Defining Entities](#) respectively.

13 Case Allocation Assignment

The Automated Case Allocation feature assigns cases to individuals or pools at any point during the case investigation process based on the defined allocation rule. This feature saves managers/administrators from having to go through each case and manually assign the case to team members based on the selected criteria.

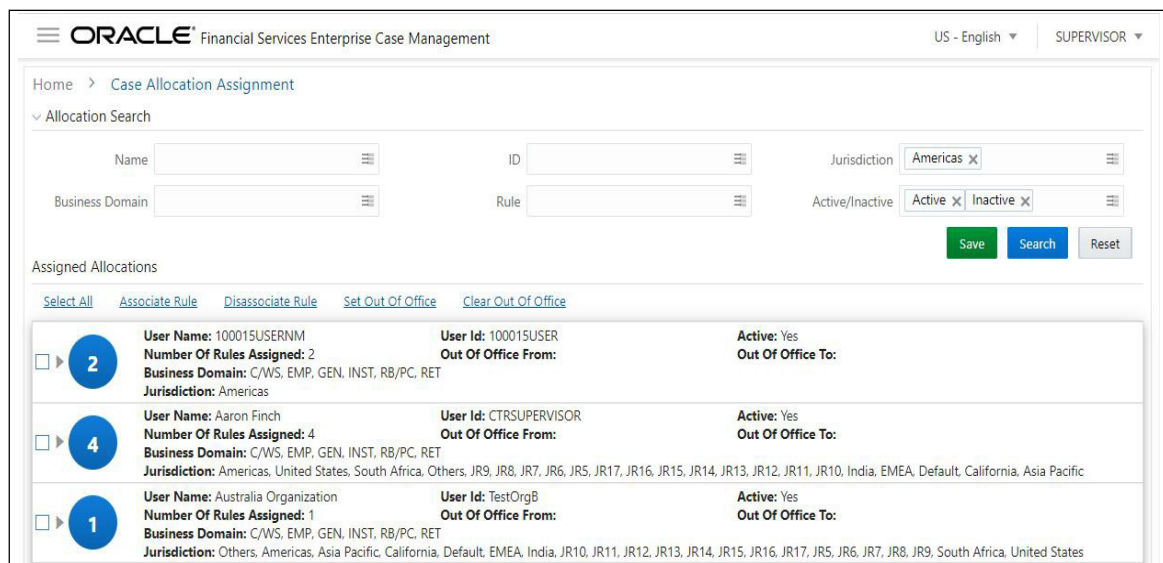
This chapter covers the following topics:

- [Accessing Case Allocation Assignment Page](#)
- [Searching an Allocation Rule](#)
- [Associating a Rule](#)
- [Disassociating a Rule](#)
- [Setting the Out Of Office](#)

13.1 Accessing Case Allocation Assignment Page

To access the Case Allocation Assignment tool, follow these steps:

1. Navigate to Enterprise Case Investigation: see the [Getting Started](#) section for more information.
2. From the Enterprise Case Investigation menu, select **Case Allocation Assignment**.



13.2 Searching an Allocation Rule

The Allocation Search enables users to return all users and pools, based on select search criteria, who can then have a rule(s) assigned to them.

To search the allocation rule, follow these steps:

1. The following criteria are available in the Allocation Search pane.

Table 1: Search Fields

| Field | Description |
|-----------------|---|
| Name | This type-ahead box displays all users and pools. Note: This supports the wild-card search using the percent sign (%). |
| ID | This type-ahead box displays the user IDs of all users and pools |
| Jurisdiction | Displays the list of all Jurisdictions and filters the results by the business jurisdictions associated with the user/pool. Note: The drop-down list contains only jurisdictions you are authorized to view. |
| Business Domain | Displays as all Domains and filters the results by the business domain associated with a user. Note: The drop-down list contains only business domains you are authorized to view. |
| Rule | Displays all rules defined in the FCC_ASSGN_RULE_DEFN table. |
| Active/Inactive | This filters the results by the status of the user or pool. |

2. Select Search to return the list of users that match the criteria.
3. Select Save to save that search criteria. It will run automatically the next time the tool is accessed.

13.3 Associating a Rule

Individual users/pools are mapped to a rule using the Associate Rule option. A single user/pool can be mapped to multiple rules if necessary and a single rule can be mapped to multiple individuals/pools.

The screenshot shows a window titled "Associate Rule" with a close button (X) in the top right corner. Inside the window, there are several sections:

- Selected Users:** A text box containing "100015USERNM".
- Rule:** A dropdown menu showing "Alert Count Rule" with a close button (X) and a list icon.
- Maximum Count:** A text box containing the number "2".
- Priority:** A text box containing the number "3".

At the bottom right of the window, there are two buttons: "Save" (highlighted in blue) and "Cancel".

To associate a rule, follow these steps:

1. Select the user from the Assigned Allocation list.
2. Select the Associate Rule link to open the Associate Rule window.
3. The following information is available:

Table 2: Associating a Rule

| Field | Description |
|---------------|---|
| Rule | This list contains all rules defined in the FCC_ASSGN_RULE_DEFN table. One or more rules can be selected. |
| Maximum Count | This value defines the maximum number of cases that can be assigned to that user at any given time for that rule(s) |
| Priority | Set the priority of the user. This value defines the priority in which the rules assigned to this individual will be run. This is done to assist with load balancing. The priority numbers must be defined in sequential order (1, 2, 3...). No two associations can have the same priority for a user. |

4. Select **Save**.

Example of Allocation Association: Let's assume the client has senior investigators who are to focus primarily on difficult cases but also help on easier cases when they are able. These investigators should never have more than 100 cases assigned to them at any given time. Two allocation rules would be created; one for easy cases and one for hard. A senior investigator would then have the hard allocation rule associated with them with a Maximum Amount of, for example, 75 and a Priority of 1. The easy rule would be associated with a Maximum Amount of 25 and a Priority of 2. This would ensure the investigator has mainly difficult cases but always has some easy ones.

13.4 Disassociating a Rule

You can remove a rule from an individual user/pool using the Disassociate Rule option.



To disassociate a rule, follow these steps:

1. Select the user from the Assigned Allocation list.
2. Click **Disassociate Rule** to open the Disassociate window.
3. Select the Rule from the list of all the associated rules mapped to that user.
4. Select **Save**.

13.5 Setting the Out Of Office

You can set the Out Of Office option for the selected user. The allocation jobs will not assign any new cases between the selected dates when an individual is out of office. After the To date is reached, the user will start to receive cases again.

To set the Out Of Office, follow these steps:

1. Select the user from the Assigned Allocation list.
2. Click **Set Out of Office**.
3. Enter the From and To dates in dd/MM/yyyy format.
4. Select **Save**.

13.6 Clearing the Out Of Office

An Administrator can clear the out of office for the selected user.

To clear the Out Of Office, follow these steps:

1. Select the user from the Assigned Allocation list.

2. Click **Clear Out of Office**.

3. Select **Save**.

14 General Configuration

This chapter provides instructions to configure the parameters for case management and includes the following topics:

- Accessing Manage Parameters
- Accessing Manage Parameters
- Configuring the Default Currency Code
- Configuring the Base Time Zone
- Configuring Case Own Flag Consideration
- Configuring Case Prefix
- Configuring the Display of Value in By Field Name/ID
- Configuring Organization Type
- Configuring Application Server
- Configuring Case Age Calculation
- Configuring Case Assignment Inheritance
- Configuring Case Correlation Owner
- Configuring Case Inheritance
- Configuring Case Risk Values
- Configuring Default Case Owner
- Configuring E-mail
- Configuring Mode of Transferring Alert Information
- Configuring Mode of Transferring Case Information
- Configuring Lock Time Period for Case Actions
- Configuring OBIEE
- Configuring View All Organization
- Configuring File Size
- Configuring Views
- Configuring ECM Security Function
- Managing Additional Configurations
- Managing KYC Configurations
- Account Restriction Information

14.1 Configuring the Client Logo Image

The client logo has a default blank image included in all Oracle Financial Services .jsp files. You must replace the blank image for both the Oracle Financial Services product and the Administration Tools with a .svg file that contains your firm's name or logo.

14.1.1 Logo Specification

The following lists the client logo specification:

- The logo name must be `client_logo.svg`
- Dimensions must be width: 137px and height: 18px
- File format must be Scalar Vector Graphic (SVG)

14.1.2 Placing a new Client Logo

To place a new client logo, follow these steps:

1. Take a backup of the existing `client_logo.svg` file from the `<deployed area>/ojff/css/images/client_logo.svg` directory.
2. Copy the customer logo to the `<deployed area>/ojff/css/images` directory (for example, `<deployed area>/ojff/css/images/client_logo.svg`).
3. Refresh the web browser after copying the image file in the web server.
4. Refresh the application server's work folder.

14.1.3 Removing a Client Logo

To remove a custom client logo, follow these steps:

1. Replace the `client_logo.svg` file from the backup location.
2. Refresh the web browser after copying the image file in the web server.
3. Refresh the application server's work folder.

14.1.4 Configuring Application Label Text

To modify the Application Label text along with Logo change, update the following entries in the Configuration table:

```
select * from aai_app_tl where v_app_id='OFS_NGECM'  
v_app_id='OFS_NGECM' v_app_name='app name'
```

Here, the `app_name` is the customized Application Label. For example, Enterprise Case Management

14.2 Accessing Manage Parameters

To access the Manage Parameters, follow these steps:

1. Navigate to the Administration tab and select the Manage Parameters option.
2. Select Manage Common Parameters to access the Manage Common Parameters window.

14.3 Configuring the Default Currency Code

You can modify the default currency settings that display throughout the UI. The following section provides detailed instructions to modify the currency code, which is highlighted in the below figure.

To modify the default currency code, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **UI Display** from the Parameter Category drop-down list.
3. Select **Base Currency** from the Parameter Name drop-down list.

4. Edit the parameter. **Figure 1** illustrates the modified currency code as EUR.

The screenshot shows the Oracle Manage Common Parameters interface. At the top, there is a search bar and navigation icons. Below that, the 'Parameter Category' is set to 'UI Display' and the 'Parameter Name' is 'Base Currency'. The main area displays the parameter details:

- Parameter Name:** Base Currency
- Parameter Value:** EUR
- Parameter Category:** UI Display
- Parameter Description Text:** This parameter specifies the Base Currency code for the installation. This currency code will be prefixed with a space to the amount values across the application.
- Last Modify Date:** 04/11/2018
- Modified By:** ECMADMN

Below these details are 15 attribute rows, each with 'Attribute X Name', 'Attribute X Description', and 'Attribute X Value' fields. At the bottom, there are 'Save' and 'Cancel' buttons.

Figure 1: Financials Tab—with Modified Currency Format

Perform the following steps from the back end:

1. Take the backup of the AAI_FF_CONTROL_PROPERTIES table.
2. Execute the below query in config schema:

```
UPDATE AAI_FF_CONTROL_PROPERTIES SET V_CONTROL_SPECIFIC_11 = 'MMK' WHERE V_CONTROL_SPECIFIC_12 = 'code' and V_CONTROL_SPECIFIC_11='USD';
```

3. Restart the servers and test the UI.

14.4 Configuring the Base Time Zone

The Base Time Zone parameter is used in the Export to XML action from Case Management. You can modify the default Base Time Zone through the Manage Common Parameters screen (**Figure 2**).

14.4.1 Modifying Time Zone

To modify the base time zone, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **UI Display** from the Parameter Category drop-down list.
3. Select **Base Time Zone** from the Parameter Name drop-down list.

The screenshot shows the Oracle configuration interface for the 'Base Time Zone' parameter. The interface includes a search bar, a parameter category dropdown set to 'UI Display', and a parameter name dropdown set to 'Base Time Zone'. The main configuration area contains the following fields:

- Parameter Name: Base Time Zone
- Parameter Value: EST
- Parameter Category: UI Display
- Parameter Description Text: The base Time Zone parameter is used in the Export to XML action from Alert Management /Case Management. This parameter specifies the Time Zone of the region of installation.
- Last Modify Date:
- Modified By:
- Attributes 1 through 15, each with a Name, Description, and Value field.

At the bottom of the form are 'Save' and 'Cancel' buttons.

Figure 2: Configuring Base Time Zone

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.5 Configuring Case Own Flag Consideration

This parameter specifies if a user should be checked for their case owning eligibility before they are assigned the case. The parameter should have only Y or N values. If the value is set to Y, then only those users who have access privileges to the case and are also eligible to own a case are displayed in the Assign To fields. If set to N, then all users who have access privileges to the case, regardless of their eligibility to own a case, are displayed in the Assigned to fields.

The default value is Y.

To disable the Case Own Flag Consideration, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **UI Display** from the Parameter Category drop-down list.
3. Select **Case Own Flag Consideration** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*

5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.6 Configuring Case Prefix

This parameter specifies the non-numeric value to be prefixed before the Case ID while displaying the Case ID in the UI.

To modify the Case Prefix parameter, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **UI display** from the Parameter category drop-down list.
3. Select **Case Prefix** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.7 Configuring the Display of Value in By Field Name/ID

This configuration allows you to see either the ID or Name field for the User, Focus, Branch, Division, and Organization in the UI. This parameter specifies the client to specify the Name or ID value in the By field.

To modify the Display of Value in the By Field Name/ID, follow these steps:

1. Navigate to **Applications** and click **Manage Configuration**.
2. Open the Manage Common Parameters screen.
3. Select **UI Display** from the Parameter Category drop-down list.
4. Select **Display of Value in By Field Name/ID** from the Parameter Name drop-down list.

The screenshot shows the Oracle configuration page for the parameter 'Display of Value in By field Name/ID'. The page is titled 'ORACLE' and includes a search bar and navigation icons. The parameter category is 'UI Display' and the parameter name is 'Display of Value in By field Name/ID'. The parameter value is set to 'Y'. The parameter description is 'Allows the client to specify whether to display a system user's ID or Name in UI.' The parameter is modified by 'USER'. There are 15 attributes listed, each with a name, description, and value field. The first five attributes are: Attribute 1 Name: USER, Attribute 2 Name: FOCUS, Attribute 3 Name: BRANCH, Attribute 4 Name: DIVISION, and Attribute 5 Name: ORG. The descriptions for these attributes specify that they will use either ID or Name for the respective field. The value fields for these attributes are currently empty. The remaining 10 attributes (6-15) have empty value fields. At the bottom of the form, there are 'Save' and 'Cancel' buttons.

5. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
6. Click **OK**. A confirmation dialog box appears with the message: *Update Operation Successful.*
7. Click **OK**. The Manage Common Parameters page is displayed.

Table 5 describes the attributes which should be configured for Display of Value in By Field Name/ID.

Table 3: Configuring Display of Value in By Field Name/ID Attributes

| Attribute | Description |
|-----------|--------------------------------|
| User | ID or Name for User field. |
| Focus | ID or Name for Focus field. |
| Branch | ID or Name for Branch field. |
| Division | ID or Name for Division field. |
| Org | ID or Name for Org field. |

14.8 Configuring Organization Type

This parameter specifies the type of organization that is used to populate the list of available cost centers wherever the cost center appears as a selection or data entry criteria throughout the application.

Records in the Organization table with this specified Organization Type (ORG.ORG_TYPE_CD) is displayed in the cost center drop-downs. The parameter value is limited to specifying only one organization type.

To modify the Organization Type, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **UI Display** from the Parameter Category drop-down list.
3. Select **Organization Type** from the Parameter Name drop-down list.

The screenshot shows the Oracle Manage Common Parameters interface. At the top, there is a search bar and navigation icons. Below that, the 'Parameter Category' is set to 'UI Display' and the 'Parameter Name' is 'Organization Type'. The main content area displays the following details:

- Parameter Name:** Organization Type
- Parameter Value:** MKT
- Parameter Category:** UI Display
- Parameter Description Text:** This parameter specifies the type of organization that will be used to populate the list of available cost centers wherever cost center appears as a selection or data entry criteria throughout the application. Records in the Organization table with this specified Organization Type (ORG.ORG_TYPE_CD) will be displayed in the cost center drop-downs. The parameter value is limited to specifying only one organization type.
- Last Modify Date:**
- Modified By:**

Below these details are 15 rows of attribute fields, each with an 'Attribute X Name:' label, an 'Attribute X Description:' label, and an 'Attribute X Value:' input field. At the bottom of the form, there are 'Save' and 'Cancel' buttons.

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.9 Configuring Application Server

This parameter specifies the OFSAAI Application Server IP Address and Java Port.

Follow these steps if in case the values were different from the default values populated by the Installer.

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-downlist.
3. Select **Application Server** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

Table 4 describes the attributes to be configured for setting the application server.

Table 4: Configuring Application Server

| Attribute | Description |
|-------------------------|--|
| Application Server IP | This parameter specifies Oracle Financial Services Analytical Applications Infrastructure Application server IP address/ server name details required for admin tools. |
| Application Server Port | This parameter specifies Oracle Financial Services Analytical Applications Infrastructure Application server port details required for admin tools. |

14.10 Configuring Case Age Calculation

This parameter allows the client to specify whether the calculation of the age of a case is to be done in Calendar or Business days. The param value can be either C or B.

The default value is Business (B).

To modify the Case Age Calculation parameter, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **Case Age Calculation** from the Parameter Name drop-down list.

The screenshot shows the Oracle configuration interface for the 'Case Age Calculation' parameter. The interface includes a search bar, a parameter category dropdown set to 'Used For Design', and a parameter name dropdown set to 'Case Age Calculation'. The main form area contains the following fields:

- Parameter Name: Case Age Calculation
- Parameter Value: B
- Parameter Category: Used For Design
- Parameter Description Text: Allows the client to specify whether the calculation of the age of a case is to be done in Calendar or Business days. The param value can be either C for Calendar days or B for Business days.
- Last Modify Date: (empty)
- Modified By: (empty)
- Attribute 1 Name: (empty)
- Attribute 1 Description: (empty)
- Attribute 1 Value: (empty)
- Attribute 2 Name: 10
- Attribute 2 Description: Max Value of Risk
- Attribute 2 Value: (empty)
- Attribute 3 Name: (empty)
- Attribute 3 Description: (empty)
- Attribute 3 Value: (empty)
- Attribute 4 Name: (empty)
- Attribute 4 Description: (empty)
- Attribute 4 Value: (empty)
- Attribute 5 Name: (empty)
- Attribute 5 Description: (empty)
- Attribute 5 Value: (empty)
- Attribute 6 Name: (empty)
- Attribute 6 Description: (empty)
- Attribute 6 Value: (empty)
- Attribute 7 Name: (empty)
- Attribute 7 Description: (empty)
- Attribute 7 Value: (empty)
- Attribute 8 Name: (empty)
- Attribute 8 Description: (empty)
- Attribute 8 Value: (empty)
- Attribute 9 Name: (empty)
- Attribute 9 Description: (empty)
- Attribute 9 Value: (empty)
- Attribute 10 Name: (empty)
- Attribute 10 Description: (empty)
- Attribute 10 Value: (empty)
- Attribute 11 Name: (empty)
- Attribute 11 Description: (empty)
- Attribute 11 Value: (empty)
- Attribute 12 Name: (empty)
- Attribute 12 Description: (empty)
- Attribute 12 Value: (empty)
- Attribute 13 Name: (empty)
- Attribute 13 Description: (empty)
- Attribute 13 Value: (empty)
- Attribute 14 Name: (empty)
- Attribute 14 Description: (empty)
- Attribute 14 Value: (empty)
- Attribute 15 Name: (empty)
- Attribute 15 Description: (empty)
- Attribute 15 Value: (empty)

At the bottom of the form, there are 'Save' and 'Cancel' buttons.

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful.*
6. Click **OK**. The Manage Common Parameters page is displayed.

14.11 Configuring Case Assignment Inheritance

This parameter specifies the status of Case Assignment Inheritance for the installation. The parameter can have only Y or N values. If set to Y and if the current Assign To user of the case is a pool (not an individual user), then the current user inherits as the Assign To user of the case. If set to N, then the Assign To user is not changed just by a user viewing the case.

The default value is Y.

To modify the Case Assignment Inheritance parameter, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **Case Assignment Inheritance** from the Parameter Name drop-down list.

The screenshot shows the Oracle configuration interface for the 'Case Assignment Inheritance' parameter. The page includes a search bar, a parameter category dropdown set to 'Used For Design', and a parameter name dropdown set to 'Case Assignment Inheritance'. The main content area displays the parameter name, value (Y), and category. A detailed description explains that the parameter specifies the status of Case Assignment Inheritance for the installation, with Y or N values. Below the description is a table of 15 attributes, each with a name, description, and value field. At the bottom, there are 'Save' and 'Cancel' buttons.

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful.*
6. Click **OK**. The Manage Common Parameters page is displayed.

14.12 Configuring Case Correlation Owner

This parameter specifies the users or user pools who should be assigned as the *Owner* and *Assign To* users for cases created through correlation promotion. The users or user pools that need to be assigned as the *Owner* and *Assign To* users are identified from other attributes of this parameter based on the case type. Here every attribute specifies an owner for a Case Type Sub Type. Some of the Case Type Sub Type will be prepackaged.

Client can specify new case type sub type and default owner for the case type subtype. To add a new case type sub type, follow these steps:

1. If the Case Correlation Owner parameter has used up to attribute 4, then use the following query:

```
update kdd_install_param set kdd_install_param.attr_5_cd='<Case Type Sub Type>',kdd_install_param.attr_5_value_tx='<Owner>'
where kdd_install_param.param_id=30 and kdd_install_param.param_nm='Case Correlation Owner 1'
```

2. If all the attributes have been filled then add one more case correlation owner Parameter. To add another Correlation parameter, follow these steps:
 - a. Get maximum param ID of the `kdd_install_param` table by running the following query.


```
select max (param_id) from kdd_install_param.
```

 Insert into `kdd_install_param` (`param_id`, `param_nm`, `param_value_tx`, `param_cat_cd`,`param_desc_tx`) values
 (< Max Param id > +1, 'Case Correlation Owner 2', 'Y', 'Used for Design',
 - b. This parameter specifies the users or user pools who should be assigned as the *Owner* and *Assign To* users for cases created through correlation promotion. The parameter value by default is kept as Y but can also be changed and the same is not validated. The users or user pools who need to be assigned as the Owner and Assign To users are identified from other attributes of this parameter based on the case type.
 - c. To add a new case type sub type and owner use the query mentioned in step 1 after replacing the filter clause with the new param ID and name.

To modify the Case Correlation Owner for an existing Case Type Sub Type, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **Case Correlation Owner** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

Table 5: Configuring Case Correlation Owner

| Attribute | Description |
|-----------|--|
| DEF_OWNER | <p>This attribute specifies the default Case owner.</p> <p>The attribute value can have only one user ID</p> <ul style="list-style-type: none"> • Should be the same as of <code>KDD_REVIEW_OWNER.OWNER_ID</code> • Should have Case role and • Have access to all the security attributes defined in the Security Attribute Administration User Interface, if not the s would not be assigned to any user. |

14.13 Configuring Case Inheritance

This parameter specifies the status of Case Inheritance for the installation. The parameter can have only Y or N values.

If set to Y, the case ownership changes for cases when in New or Reopened statuses based on the rules defined for case inheritance. If set to N, then ownership does not change when a user accesses the case.

If set to Y the system automatically assigns ownership of a case owned by pools (as long as not in a closed status) to the user who has selected to view the case. If set to N, case ownership is not inherited by a user just by viewing the case.

To modify the Case Inheritance parameter, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **Case Inheritance** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.14 Configuring Case Risk Values

This parameter allows deployment level configuration of the minimum and maximum range of risk values during add and edit feature in Case related business tabs.

To modify the case risk value, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **Case Risk Values** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

Table 6: Configuring Case Risk Values

| Attribute | Description |
|----------------|---|
| Min Risk Value | Will define the minimum value of all the types of risks; will have a default value of -2. |
| Max Risk Value | Will define the maximum value of all the types of risks; will have a default value of 10. |

14.15 Configuring Default Case Owner

Cases are assigned to users based on the case allocation rules set. For more information on configuring the Case Allocation rule, see the [Configuring Case Allocation](#).

14.16 Configuring E-mail

This parameter specifies the attributes for the E-mail action. The value of this parameter should be set to Y.

To modify E-mail parameters, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **E-Mail** from the Parameter Name drop-down list.

ORACLE

US-English ECMADMN

Search

Parameter Category: **Used For Design** Parameter Name: **E-mail**

| | | | | | |
|-----------------------------|--|---------------------------|---|---------------------|---|
| Parameter Name: | E-mail | Parameter Value: | <input type="text" value="Y"/> | Parameter Category: | Used For Design |
| Parameter Description Text: | This parameter specifies the attributes for the Email action. The value of this parameter should be set to Y. | Last Modify Date: | | Modified By: | <input type="text" value="Y"/> |
| DEF_SEND_USR | This attribute specifies whether the system should use a pre-defined email address or the email address of the current logged in user as the default sender address for an email action. The parameter value can have only Y or N value. Y sets the email of the sender as the User ID specified in DEF_SEND_USR_ID attribute as the default. N sets the email of the current logged in user as the default. | Attribute 1 Description: | | Attribute 1 Value: | <input type="text" value="case_analyst1"/> |
| Attribute 1 Name: | DEF_SEND_USR_ID | Attribute 2 Description: | This attribute specifies the default User ID for the email action. This parameter must have a value when the DEF_SEND_USR attr_1_value_bx is set to Y. Note: The attribute value should reference a user in the Kdd_Review_Owner table. | Attribute 2 Value: | <input type="text" value="Y"/> |
| Attribute 2 Name: | DEF_DOM_ENABLED | Attribute 3 Description: | This attribute enables/ disables the set of domains to which emails can be sent from the application. The parameter value can have only Y or N value. Y restricts the user to sending emails to the domains specified in the DEF_DOM attribute. When set to N, the UI will present the user with a selection box from which the email ids of the users identified in the TO_LST_USR_ID attribute can be selected. | Attribute 3 Value: | <input type="text" value="ORACLE.COM,GMAIL.COM"/> |
| Attribute 3 Name: | DEF_DOM | Attribute 4 Description: | This attribute specifies the domains to which emails can be sent. This attribute shall be populated only when the DEF_DOM_ENABLED attribute is set to Y. | Attribute 4 Value: | <input type="text" value="AMUSER,SUPERUSER,CMUSER,CA1,CS"/> |
| Attribute 4 Name: | TO_LST_USR_ID | Attribute 5 Description: | This attribute specifies the users to whom emails can be sent. This attribute be populated only when the DEF_DOM_ENABLED attribute is set to N. Note: The attribute value(s) should reference users in the Kdd_Review_Owner table. | Attribute 5 Value: | <input type="text" value="mantasmtp.mantas.com"/> |
| Attribute 5 Name: | MAIL_HOST | Attribute 6 Description: | This attribute specifies Mail SMTP host IP address/Server name. If this attribute, is not populated, email action would not be performed. | Attribute 6 Value: | <input type="text" value="Oracle_FCCM_Alert ID(s):"/> |
| Attribute 6 Name: | DEF_SUBJECT | Attribute 7 Description: | This attribute specifies the default subject text that will appear on emails when an email action is taken for alerts. | Attribute 7 Value: | <input type="text" value="Oracle_FCCM_Case ID(s):"/> |
| Attribute 7 Name: | DEF_SUBJECT | Attribute 8 Description: | This attribute specifies the default subject for the email action for the Cases selected. | Attribute 8 Value: | <input type="text" value="1"/> |
| Attribute 8 Name: | MAIL_ATTACH_LIMIT | Attribute 9 Description: | This attribute specifies the attachment size limit. The value is given in MB. | Attribute 9 Value: | <input type="text" value="Y"/> |
| Attribute 9 Name: | DISPLAY_ACTIONS_TAKEN | Attribute 10 Description: | This attribute specifies whether to display the 'Actions Taken' in the attached HTML or not. | Attribute 10 Value: | <input type="text" value=""/> |
| Attribute 10 Name: | MAIL_FOOTER | Attribute 11 Description: | This attribute specifies the footer details appended to the Email. | Attribute 11 Value: | <input type="text" value=""/> |
| Attribute 11 Name: | HTM_REPORT_IN_BODY | Attribute 12 Description: | This attribute specifies for a single alert, whether the htm report should come in mail body or as attachment. | Attribute 12 Value: | <input type="text" value="Y"/> |
| Attribute 12 Name: | DEF_ACTION_TAKER | Attribute 13 Description: | This attribute specifies the default action taker for the received response if the system cannot identify the Response Sender as a valid Mantas User. | Attribute 13 Value: | <input type="text" value="1"/> |
| Attribute 13 Name: | DEF_ACTION_TAKER | Attribute 14 Description: | | Attribute 14 Value: | <input type="text" value=""/> |
| Attribute 14 Name: | | Attribute 15 Description: | | Attribute 15 Value: | <input type="text" value=""/> |
| Attribute 15 Name: | | | | | |

Save Cancel

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

Table 7 describes the attributes which need to be configured for E-mail parameters.

Table 7: Configuring E-mail Attributes

| Attribute | Description |
|-----------------------|---|
| DEF_SEND_USR | This attribute specifies whether the system should use a pre-defined E-mail address or the E-mail address of the current logged in user as the default sender address. The parameter value can have only Y or N value. Y sets the E-mail of the sender as the User ID specified in the DEF_SEND_USR_ID attribute as the default. N sets the E-mail of the current logged in user as the default. |
| DEF_SEND_USR_ID | This attribute specifies the default user ID for the E-mail action. This parameter must have a value when the DEF_SEND_USR is set to Y. Note: The attribute value should reference a user in the KDD_REVIEW_OWNER table. |
| DEF_DOM_ENABLED | This attribute enables/disables the set of domains where E-mails can be sent. The parameter value can have only Y or N value. Y restricts the user from sending E-mails to the domains specified in the DEF_DOM attribute. When it is set to N, the UI presents the user with a selection box from which the E-mail IDs of the users identified in the TO_LST_USR_ID attribute can be selected. |
| DEF_DOM | This attribute specifies the domains to which the E-mails can be sent. This attribute should be populated only when the DEF_DOM_ENABLED attribute is set to Y. |
| TO_LST_USR_ID | This attribute specifies the users to whom the E-mails can be sent. This attribute should be populated only when the DEF_DOM_ENABLED attribute is set to N. Note: The attribute values should reference users in the KDD_REVIEW_OWNER table. |
| MAIL_HOST | This attribute specifies Mail SMTP host IP address/Server name. If this attribute is not populated, E-mail actions cannot be performed. |
| DEF_SUBJECT | This attribute specifies the default subject text that appears on E-mails when an E-mail action is taken for cases. |
| MAIL_FOOTER | This attribute specifies optional footer details which can be appended to the E-mail. |
| MAIL_ATTACH_LIMIT | This attribute specifies the attachment size limit. The value is given in MB. |
| DISPLAY_ACTIONS_TAKEN | This attribute specifies whether to display the 'Actions Taken' in the attached HTML or not. |

Table 7: Configuring E-mail Attributes

| Attribute | Description |
|----------------------|---|
| HTML_RE-PORT_IN_BODY | This attribute specifies for a single case, whether the HTML report has to appear in the mail body or as an attachment. |
| DEF_ACTION_TAKER | This attribute specifies the default action taker for the received response if the system cannot identify the Response Sender as a valid User. |
| DEF_RFI_SUBJECT | This attribute specifies the default subject text that appears when a user Selects to sends an RFI from a case. Text can be edited before sending an email and is what will appear in the email received by the repodent. |

NOTE ECM supports default port (25) of the SMTP server only. Also, it doesn't support any authentication mechanism or any user credential integrations.

14.17 Configuring Mode of Transferring Alert Information

This parameter specifies the mode in which business data from an alert to a case is transferred during Promote to Case or Link actions. The parameter value can have only S or A value. Synchronous (S) restricts the user from working on the alert or case until the data transfer action is complete. Asynchronous (A) allows the user to continue to work on the alert or case, while the data transfer is being carried out in the background.

The default value is synchronous (S).

To modify the Mode of Transferring Alert Information, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for design** from the Parameter Category drop-down list.
3. Select **Mode of Transferring Alert Information** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.18 Configuring Mode of Transferring Case Information

This parameter specifies the mode in which case information is transferred during Merge Action and is applicable for implementations that have installed Oracle Financial Services Enterprise Case Management. The parameter value can have only S or A value. S (Synchronous) restricts the user from working on the case until the data transfer action is complete. An Asynchronous allows the user to continue to work on the case, while the data transfer is being carried out in the background.

The default value is synchronous (S).

To modify the Mode of Transferring Case Information, follow these steps:

1. Open the Manage Common Parameters screen (Figure 1).
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **Mode of Transferring Case Information** from the Parameter Name drop-down list.

The screenshot shows the Oracle configuration interface for the parameter 'Mode of Transferring CASE Information'. The interface includes a search bar, a parameter category dropdown set to 'Used For Design', and a parameter name dropdown set to 'Mode of Transferring CASE Information'. The main form area contains the following fields:

- Parameter Name: Mode of Transferring CASE Information
- Parameter Value: S
- Parameter Category: Used For Design
- Parameter Description Text: Allows the client to specify whether the mode of transfer of case information for Merge action is to be in Synchronous or Asynchronous mode. The parameter value can be either S or A.
- Last Modify Date:
- Modified By:
- Attributes 1 through 15, each with a Name, Description, and Value field.

At the bottom of the form, there are 'Save' and 'Cancel' buttons.

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: *Would you like to Save these actions?*
5. Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.19 Configuring Lock Time Period for Case Actions

Cases are locked when you are taking actions on them, however, the lock is opened when you complete the action. If you close the browser window while the lock is still active, then the lock remains active until it expires. This prevents other users from acting on the locked case.

By default, the system retains the lock for 30 minutes. This parameter applies to Case Management implementations. If you want to change the time period for this lock, then follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **UI Lockout Time** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.

- Click **OK**. The Manage Common Parameters page is displayed.

NOTE UI Lock-Out Time should be mentioned in minutes. That is, param_value_tx value should be in minutes.

14.20 Configuring Include Historical Migrated Alerts

This parameter specifies whether the Include Historical Migrated Alerts check box should be displayed in the UIs (all **Relationship tabs**, **Research**, and **Search Events**). The parameter can have only Y or N values. Select **Include Historical Migrated Alerts** if you want to view migrated events. If Include Historical Migrated Alerts set to Y, then the Include Historical Migrated Alerts check box is displayed on the **Search Event** window.

The Attribute 1 (IsChecked) parameter should have only Y or N values. If the value is Y, then the checkbox is checked by default on UIs.

To modify the Include Historical Migrated Alerts parameter, follow these steps:

- Open the **Manage Common Parameters** window.
- Select **Used for Design** from the **Parameter Category** drop-down list.

The screenshot shows the 'Manage Common Parameters' window. At the top, there is a search bar and two dropdown menus: 'Parameter Category' set to 'Used For Design' and 'Parameter Name' set to 'Include Historical Migrated Alerts'. Below this, the parameter details are displayed in a grid-like format:

- Parameter Name:** Include Historical Migrated Alerts
- Parameter Value:** y
- Parameter Category:** Used For Design
- Description Text:** This parameter specifies whether the Include Historical Migrated Alerts checkbox should be displayed in UI.
- Last Modify Date:** 11/20/2020
- Modified By:** ECMADMN
- Attribute 1 Name:** IsChecked
- Attribute 1 Description:** This parameter specifies whether the Include Historical Migrated Alerts checkbox should be checked by default or not. The parameter should have only Y or N values. If the value is Y then the checkbox is checked by default.
- Attribute 1 Value:** N
- Attribute 2 Name:**
- Attribute 2 Description:**
- Attribute 2 Value:**

- Select **Include Historical Migrated Alerts** from the **Parameter Name** drop-down list.
- Edit the required parameter details and click **Save**. A confirmation dialog box appears with the message: Would you like to Save these actions?
- Click **OK**. A dialog box appears with the message: *Update Operation Successful*.
- Click **OK**. The **Manage Common Parameters** page is displayed.

14.21 Configuring View All Organization

This parameter, along with other access permissions defined for the user, determines the cases that can be viewed by a user in the Related Cases matrices of the Relationship tab for Case Management implementations. The parameter value can have only Y or N value. Y enables the current user to view cases as related events and- related cases respectively, even if the user does not have viewing rights for the case's primary organization, which is defined based on the organization associated with the owning user. N restricts the user from viewing, as related, events or cases whose primary organizations the user does not have access to view.

For example, User Joe Smith maybe not be allowed to see the details of cases owned by users (or a pool) who have Employee Compliance as their primary organization. However, if this

parameter is set to Y, Joe Smith would be able to see cases associated with the organization of Employee Compliance in a list of related cases, as long as they have a relationship to the current case being viewed. If this parameter is set to N, Joe Smith would have no ability to see the above-mentioned cases, even as related.

To disable View All Organization, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **View All Organization** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.22 Configuring OBIEE

This parameter specifies the OBIEE Server Application context and URL parameters. To configure OBIEE, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select **OBIEE** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.23 Configuring File Size

By default, the size supported by attachment is 1 MB. If you want to attach files greater than 1 MB size using the Save and Attach button, follow these steps:

1. Open file `$FIC_HOME/EXEWebService/<WebSphere or Weblogic or Tomcat>/ROOT/conf/DynamicWSConfig.xml`

Update from:

```
<PROPERTY NAME="MAXFILESIZE" VALUE="1024000"/>
```

to:

```
<PROPERTY NAME="MAXFILESIZE" VALUE="<desired value in bytes up to 10MB>"/>
```

2. Recreate the `ExeWebservices.ear` file and redeploy it.
3. Restart the web application server.

The size that is allowed to be attached while performing document attachment action should be configured in the Configuration table of OFSSAAL configuration schema in its `PARAMVALUE` column where `PARAMNAME` is `DOCUMENT_MAX_SIZE`.

14.24 Configuring Views

Views help you to quickly view search results based on pre-defined search queries.

14.24.1 Adding Views

To add views, follow these steps:

1. Make an entry in the `KDD_QUEUE_MASTER` table.

Table 8: KDD_QUEUE_MASTER table

| QUEUE_SEQ_ID | QUEUE_CD | QUEUE_DISPLAY_NM | QUEUE_TYPE |
|--------------------|-------------------|---|---|
| Unique sequence ID | Unique Queue Code | The name of the view that will be displayed in the UI | ECM: If the view is related to Cases |

2. Make the entries in the `KDD_QUEUE_FILTER` table for each filter for respective views.

| QUEUE_SEQ_ID | ATTRBT_ID | ATTRBT_VAL_TX |
|--------------|-----------|---------------|
|--------------|-----------|---------------|

| | | |
|---------------------------|---|---|
| <p>Unique sequence ID</p> | <p>Unique Attribute ID. ATTRBT_ID will be referred from KDD_CASEATTRBT_MASTER</p> | <p>This Attribute value is the actual value used for the attribute of filter.</p> <p>In this, you can give hardcoded values (for example, put a filter condition on the status attribute for the cases which are in New status). The possible value for this is, NW.</p> <p>You can also specify session attributes for your filter. The session attributes are enclosed in curly brackets {}.</p> <p>For example: {userSeqId}, {userPool}</p> <p>You can define the SYSDATE value for the filter. Date filter requires the following two inputs:</p> <ul style="list-style-type: none"> • From Date • To Date <p>For example: #NS#, #SYSDATE#</p> <p>You should specify the date values in enclosed #</p> <p>Use #NS# to mention the date filter as blank.</p> |
|---------------------------|---|---|

3. Map Queue in the KDD_QUEUE_ROLE_MAP table.

Table 9: KDD_QUEUE_ROLE_MAP table

| QUEUE_SEQ_ID | ROLE_CD |
|---|-----------|
| Queue sequence id as given in the above table | Role code |

14.24.2 Modifying Views

Following are the various modifications for views:

- Modify An Existing View Query

To modify the underlying filters for a view, changes are to be done in the KDD_QUEUE_FILTER table column.

- **Modifying View-Role Mapping**

To make a view available for an existing role, the mapping has to be done in the `KDD_QUEUE_ROLE_MAP` table.

- **Modifying the Display Name of the View**

To change the display name for a particular view, changes have to be done in the `KDD_QUEUE_MASTER.QUEUE_DISPLAY_NM` column.

14.24.3 Removing Views

To remove a view, entries for that view must be deleted from the `KDD_QUEUE_MASTER`, `KDD_QUEUE_FILTER`, and `KDD_QUEUE_ROLE_MAP` tables

```
Delete KDD_QUEUE_MASTER where QUEUE_SEQ_ID = <View Sequence Id>; Delete KDD_QUEUE_ROLE_MAP where QUEUE_SEQ_ID = <View Sequence Id>; COMMIT;
```

```
Delete KDD_QUEUE_FILTER where QUEUE_SEQ_ID = <View Sequence Id>; Delete KDD_QUEUE_ROLE_MAP where QUEUE_SEQ_ID = <View Sequence Id>; COMMIT;
```

14.25 Configuring ECM Security Function

To configure the ECM Security Function, follow these steps:

1. Open the Manage Common Parameters screen.
2. Select **Used For Design** from the Parameter Category drop-down list.
3. Select the **ECM Security Function** from the Parameter Name drop-down list.

The screenshot shows the Oracle configuration interface for the 'ECM Security Function' parameter. The interface includes a search bar, a parameter category dropdown set to 'Used For Design', and a parameter name dropdown set to 'ECM Security Function'. The main configuration area contains the following fields:

- Parameter Name: ECM Security Function
- Parameter Value: CMAACCESS
- Parameter Category: Used For Design
- Parameter Description Text: This parameter specifies the Function which will be mapped to the User groups to be displayed in Mapper Maintenance Screen.
- Last Modify Date: (empty)
- Modified By: (empty)
- Attributes 1 through 15: Each attribute has a Name, Description, and Value field. All value fields are currently empty.

At the bottom of the configuration area, there are 'Save' and 'Cancel' buttons.

Figure 3: Configuring ECM Security Function

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

14.26 Configuring Required Action Comments

The application can be configured to specify whether the Add Comment checkbox is selected by default on the Take Action window in Enterprise Case Management. The parameter values can be Y or N. If the value is Y, then the Add Comment checkbox is checked by default.

The default value of this parameter is Y.

To configure the Add Comments check-box, follow these steps:

1. Open the Manage Common Parameters window.
2. Select **Used For Design** from the **Parameter Category** drop-down list.
3. Select **TakeActionAddCommentChecked** from the **Parameter Name** drop-down list.

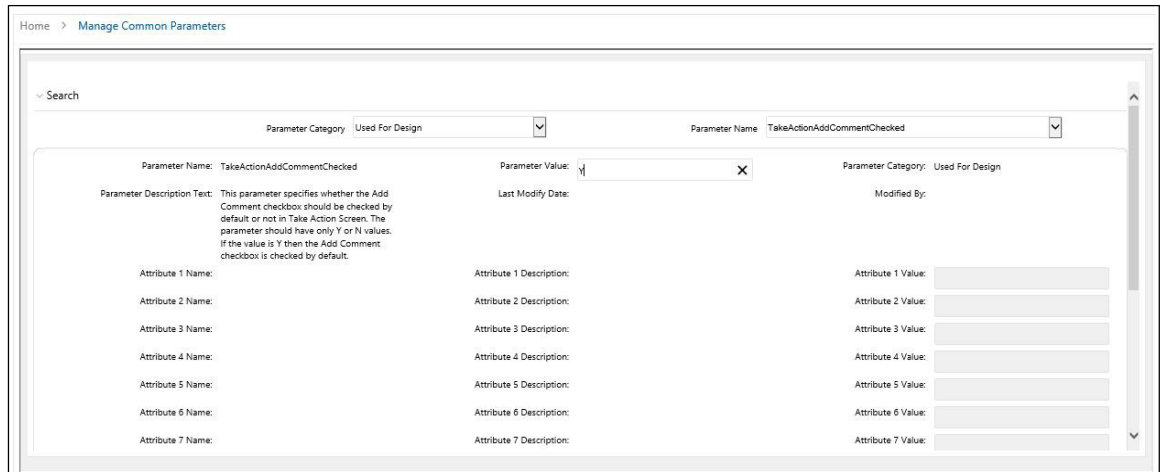


Figure 4: Configuring Required Action Comments

4. Edit the **Parameter Value** and click **Save**. A confirmation dialog box is displayed with a message: *Would you like to Save these actions?*
5. Click **OK**. A confirmation dialog box appears with the message: *Update Operation Successful.*
6. Click **OK**. The Manage Common Parameters page is displayed.

14.27 Managing Additional Configurations

The section describes the additional configurations that need to be carried out by the system administrator.

This section covers the following topics:

- [Configuring File Type Extensions](#)

14.27.1 Configuring File Type Extensions

The list of file type extensions that are allowed to be attached while performing document attachment action should be configured as comma-separated values in the `CONFIGURATION` table of the `OFSSAAI` configuration schema in its `PARAMVALUE` column where `PARAMNAME` is `DOCUMENT_ALLOWED_EXTENSION`.

14.28 Managing KYC Configurations

Perform the below configurations when ECM integration with KYC is done:

- [Configuring KYC Close Service Parameters \(KYC Batch case\)](#)
- [Configuring KYC Customer Dashboard Parameters \(KYC Batch Case\)](#)
- [Configuring CommonGatewayService Parameters](#)
- [Configuring createJSONService Parameters](#)
- [Configuring KYC Risk Score UI Service Parameters \(Onboarding KYC Case\)](#)
- [Configuring KYC Close Service Parameters \(Onboarding KYC Case\)](#)

14.28.1 Configuring KYC Close Service Parameters (KYC Batch case)

Refer section **Updating the URL for the KYC Close Service** under Configurations in the ECM UI in the [KYC Admin guide](#).

14.28.2 Configuring KYC Customer Dashboard Parameters (KYC Batch Case)

Refer section **Updating the BD Application URL for the KYC Customer Dashboard** under Configurations in the ECM UI in the [KYC Admin guide](#).

14.28.3 Configuring CommonGatewayService Parameters

Refer section **Updating the User Name and Password for the Common Gateway Service** under Configurations in the ECM UI in the [KYC Admin guide](#).

14.28.4 Configuring createJSONService Parameters

Refer section **Updating the User Name and Password for the Create JSON Service** under Configurations in the ECM UI in the [KYC Admin guide](#).

14.28.5 Configuring KYC Risk Score UI Service Parameters (Onboarding KYC Case)

Refer section **Updating the User Name and Password for the KYC Risk Score UI Service** under Configurations in the ECM UI in the [KYC Admin guide](#).

14.28.6 Configuring KYC Close Service Parameters (Onboarding KYC Case)

Refer section **Updating the User Name and Password for the JSON To Table Service** under Configurations in the ECM UI in the [KYC Admin guide](#).

14.29 Account Restriction

The account restrictions are added in the KDD_CODE_SET_TRNLN table for the code_set='CMAccountRestriction'.

15 Configuring Administration Tools

This chapter provides instructions for configuring parameters specific to administration tools.

This chapter covers the following topics:

- [Configuring Administration Tools](#)
- [Configuring Application Server](#)

15.1 Configuring Administration Tools

This parameter specifies the web application context and URL of the admin tools application.

Follow these steps if admin tools deployed web application context and URL were different from the default values populated by the Installer.

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-down list.
3. Select the **Admin Tool** from the Parameter Name drop-down list.
4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

Table 11 describes the attributes which should be configured for enabling and using the administration tools.

Table 11: Configuring Administration Tools

| Attribute | Description |
|--------------------------------------|---|
| APPLICATION_CONTEXT | This parameter specifies the context name of the admin tools application. |
| ADMINISTRATION_TOOLS_APPLICATION_URL | This parameter specified the URL of the admin tools application. |

15.2 Configuring Application Server

This parameter specifies the OFSAAI Application Server IP Address and Java Port.

Follow these steps if in case the values were different from the default values populated by the Installer.

1. Open the Manage Common Parameters screen.
2. Select **Used for Design** from the Parameter Category drop-downlist.
3. Select **Application Server** from the Parameter Name drop-down list.

The screenshot shows the Oracle Administration Tools configuration interface. At the top, there is a search bar and navigation icons. Below that, the 'Parameter Category' is set to 'Used For Design' and the 'Parameter Name' is 'Application Server'. The main configuration area is divided into three columns:

- Parameter Name:** Application Server
- Parameter Value:** Y
- Parameter Category:** Used For Design

The **Parameter Description Text:** states: "This parameter specifies Application server IP and Port details required for admin tools authentication."

The **Attributes** section lists 15 attributes:

- Attribute 1 Name:** IP. **Attribute 1 Description:** This attribute specifies the IP address/server name of the Reveleus app server. If the attribute value is incorrect the Admin Tools authentication will fail. **Attribute 1 Value:** 10.184.157.163
- Attribute 2 Name:** PORT. **Attribute 2 Description:** This attribute specifies the JAVA PORT of the Reveleus app server. If the attribute value is incorrect the Admin Tools authentication will fail. **Attribute 2 Value:** 5001
- Attributes 3 through 15 are listed but their values are currently blank.

At the bottom of the configuration area, there are 'Save' and 'Cancel' buttons.

4. Edit the required parameter details and click **Save**. A confirmation dialog box appears asking: *Would you like to Save these actions?*
5. Click **OK**. A Confirmation dialog box appears with the message: *Update Operation Successful*.
6. Click **OK**. The Manage Common Parameters page is displayed.

Table 12 describes the attributes to be configured for setting the application server.

Table 12: Configuring Application Server

| Attribute | Description |
|-------------------------|---|
| Application Server IP | This parameter specifies Oracle Financial Services Analytical Applications Infrastructure Application server IP address/server name details required for admin tools. |
| Application Server Port | This parameter specifies Oracle Financial Services Analytical Applications Infrastructure Application server port details required for admin tools. |

16 Configuring Actions

This chapter provides procedures for configuring the list of available actions. Configuration of actions requires database privileges. Using action pop-ups, you can document your analysis and close cases. You can take action on a selected case, such as closing it, taking follow-up action on it, or assigning it to other users. The following sections are detailed in this chapter:

- [Working with Case Action Settings](#)
- [Action Validation Framework](#)

16.1 Working with Case Action Settings

The following sections define how to configure case workflows:

- [Understanding Case Workflows](#)
- [Adding New Case Statuses](#)
- [Configuring Case Action Data](#)
- [Configuring Standard Comment Data](#)

16.1.1 Understanding Case Workflows

In general, Case workflows consist of a series of steps and actions. The actions that are available at each step of the workflow determine the next step (or status) in the workflow. With each action, the case can change its status to advance through the workflow.

Defining a Case workflow consists primarily of the following tasks:

1. Create case types, see the [Managing Case Designer](#), for more information.
2. Define case statuses that represent steps in the workflow. For more information, see [Adding New Case Statuses](#).
3. Define actions to be used in the workflow. For more information, see [Configuring Case Action Data](#).

NOTE

Define standard comments that is available in the workflow. For more information, see [Configuring Standard Comment Data](#). When defining workflows, you specify individual actions or comments available at each step.

16.1.2 Adding New Case Statuses

You can add a new case status by following these steps:

1. Add an entry to the `KDD_STATUS` table, as follows:

```
insert into KDD_STATUS (STATUS_CD,CAN_NHRIT_FL,VIEWD_BY_OWNER_ACTVY_
TYPE_CD,
VIEWD_RESULT_STATUS_CD,CLOSED_STATUS_FL,STATUS_NM) values
('CZZZ','N',null,null,'Y','Closed - Loss Recovered')
```

2. Add an entry to the `KDD_CODE_SET_TRNLN` table, as follows:

```
insert into KDD_CODE_SET_TRNLN (CODE_SET, CODE_VAL, SRC_SYS_CD,
CODE_DISP_TX) values ('CaseStatus', 'CZZZ',null, 'Closed - Loss Recov-
ered')
```

NOTE

Status is one of the masking parameter. Populate 'Open' status value as a parameter in AAI_MENU_Band cssms_start_page_master. Here, we are passing parameter value as INV (code for the Investigation Status). If INV is a valid status code in the application, then do not change anything. In AAI_MENU_B, menu ID is 'OFS_NGECM_SRCH', and in cssms_start_page_master, start_page_id is 'ECM'. The parameter will look like '&mStatus=INV'.

You can update **KDD_STATUS.VIEWD_RESULT_STATUS_CD** to **OBS**, if you do not want to display this status in application UI.

16.1.2.1 Configuring Case Status in CRR

To configure the case status in CRR, follow the below steps:

1. Add an entry to the KDD_STATUS table, as follows:

```
insert into KDD_STATUS (STATUS_CD,CAN_NHRIT_FL,VIEWD_BY_OWNER_ACTVY_
TYPE_CD,
VIEWD_RESULT_STATUS_CD,CLOSED_STATUS_FL,STATUS_NM) values
('CCASTR', 'N', null, null, 'Y' 'Closed - CA STR Filed')
```

Here, you can replace the Status ID (CCASTR) with your respective STR.

2. In Config schema, add an entry to the AAI_WF_STATUS_B table, as follows:

```
insert into AAI_WF_STATUS_B (V_STATUS_ID,V_APP_PACKAGE_ID) values
('CCASTR', 'OFS_NGECM')
```

Here,

- Status ID (CCASTR) should be the same as provided in the KDD_STATUS table.
- The default package name is **OFS_NGECM**. Do not change this package name.

3. In Config schema, add an entry to the AAI_WF_STATUS_TL table, as follows:

```
insert into AAI_WF_STATUS_TL (V_STATUS_ID, V_STATUS_NAME, V_STATUS_DESC,
V_LOCALE_CODE, V_APP_PACKAGE_ID) values
('CCASTR', 'Closed - CA STR Filed', 'Closed - CA STR Filed', 'en_US', '
OFS_NGECM')
```

Here,

- **Status ID** (CCASTR) should be the same as provided in the KDD_STATUS table.
- **Status Name** (Closed - CA STR Filed) should be the same as provided in KDD_STATUS table.
- The default package name is **OFS_NGECM**. Do not change this package name.

16.1.2.2 Restricting Case Status

If you need restriction in viewing the cases in a certain Status, then add the entry in KDD_ROLE_STATUS_MAP against Status code. After configuring this, you will be able to see only cases in that Status.

16.1.2.3 Masking for New Statuses

If you are adding a new status, then perform the following steps:

1. Execute the following query in the Config schema and update V_ATTRIBUTE_VALUE1. This query modifies V_ATTRIBUTE_VALUE1 to pick the new statuses

```
SELECT t.*, t.rowid FROM AAI_AOM_APP_COMP_ATTR_MAPPING t where t.v_attr_code='mStatus';
```
2. Execute the following query in the Config schema and update V_ATTRIBUTE_VALUE1 to include the new statuses.

```
SELECT t.*, t.rowid FROM AAI_OJFF_MASKING_ATTR_VAL_MAP t;
```

NOTE You cannot include Closed status everywhere. Investigator and Admin roles should not be mapped to the same users.

3. Execute the below query and update RULE_ATTRBT_VAL in table FCC_UI_RULE_CONF for RULE_ATTRBT = 'mStatus'.

```
select t.*, t.rowid from fcc_ui_rule_conf t where t.rule_attrbt = 'mStatus'
```
4. For allowing linking of cases from the Relationship tab, you have to update KDD_STATUS_LINKTYPE_MAP with the new statuses. Entries for open statuses and close statuses are different. The below query can be used as a reference for the same. For open statuses, refer entries for INV and for close statuses, refer entries for CCNSAR

```
select t.*, t.rowid from kdd_status_linktype_map t where t.status_cd in ('INV','CCNSAR')
```
5. Restart the servers to verify the updates.

16.1.3 Configuring Case Action Data

This section defines how to configure case action. The configured actions will display in UI. You can configure case actions as described in the following subsections:

- [Adding a New Action Category](#)
- [Adding a New Action](#)
- [Mapping New Action to User Role](#)
- [Mapping the New Action to Status](#)
- [Map the New Action to the Case Type](#)

NOTE Sections [Mapping New Action to User Role](#), [Mapping the New Action to Status](#), [Map the New Action to the Case Type](#) applicable only for Non-status changing actions. Use PMF for Status changing actions. You can configure this Status changing actions using **Attribute Builder** in PMF. For more information, see the [Configuring Processing Modelling Framework \(PMF\)](#).

16.1.3.1 Adding a New Action Category

To add a new case action item, follow these steps:

1. Create a new action category by adding a new record in the `KDD_ACTION_CAT_CD` as follows:

```
insert into KDD_ACTION_CAT_CD (ACTION_CAT_CD,DISPL_NM,DISPL_ORDER_NB,
MANTAS_ACTVY_CAT_FL) values ('REV','Research & Review',40, 'Y')
```

16.1.3.2 Adding a New Action

To add a new record code, follow these steps:

1. Create a new action code by adding a new record in the `KDD_ACTION` table as follows:

```
insert into KDD_ACTION (ACTION_ID, ACTION_CATEGORY_CODE, ACTION_NM,
ACTION_CD, ACTION_DESC, LAST_UPDATED_DT, LAST_UPDATED_BY, COMMENTS,
ACTION_ORDER, REQ_CMMNT_FL, DFLT_DUE_DT_LM, REQ_REASN_FL, REQ_DUE_
DATE_FL, NEXT_REVIEW_STATUS_CD, REG_TYPE_CD, REQ_REASN_OWNER_FL,
LAST_ASSIGN_REQ, RESOLUTION_ACTION_FL, EXPORT_DIR_REF) values (73,
'REV', 'Reviewed with Account Manager', 'CA73A', 'Reviewed with Account
Manager', null, null, null, 90, 'Y', null, 'N', 'N', 'INV', null, 'N',
'N', null, , null)
```

2. While adding a new action, the set of supplemental values to be associated with the action should be decided based on the following criteria:
 - `ACTION_CATEGORY_CODE` - Category code that identifies the classification of an action. If you want to change the category of action, you need to change this column accordingly.
 - `ACTION_ORDER` - Integer that represents the order in which action is performed by the system in the scenario of multiple actions take together. The larger the number the higher the precedence. This allows for multiple actions with differing resulting statuses to be taken at the same time and enforcing that the action with the highest action order will be the one to affect the resulting status. For example, action with resulting status *Followup* has action order 10. It is taken at the same time as action with the resulting status *Closed* that has action order 20. Both actions will be applied and visible in the Audit. But the resulting status will be *Closed*.

The action order of client-created actions should be less than the action order of system-initiated actions for Re-assignment (CA202A) and Ownership Change (CA103S).

- `NEXT_REVIEW_STATUS_CD` - Resulting status code to be set when this action type is performed on an investigation record.
- `REQ_REASN_FL` - Indicator of whether this action type requires reassignment of an investigation record.
- `REQ_DUE_DATE_FL` - Indicator of whether this action type requires the user to enter a due date on a case.

NOTE

Unless superseded by another action being taken on the investigation record that has a *Closed* status as the resulting status based on the lowest order precedence established in the Investigation Status table the provided due date will be applied on the investigation record.

- `REQ_CMMNT_FL` - Indicator of whether a comment, either the standard or free-text comment, is required for this action type.
- `REQ_REASN_OWNER_FL` Indicator of whether this action type requires reassignment of ownership of a case investigation record.

- LAST_ASSIGN_REQ - Used by the system to determine the last user who performed this action in the situation where this recommendation or escalation action is rejected and the case would need to be reassigned back to the last user who took the action. "Y" means that when this action appears on a case previous to a rejection action by another user the user who took this action would become the owner. "N" means this is not a recommendation for approval or escalation type action or is not an action that would be used by the system to determine reassignment.
- RESOLUTION_ACTION_FL - Indicator of whether this action is a resolution action.

NOTE If you are adding new actions, then start the action sequence number with a higher number like 30000. If any of the OOB actions not required, then change the category of that action to OBS. This is prevented that action to appear in the Search screens.

16.1.3.3 Mapping New Action to User Role

1. Create a new action Role mapping by adding a new record in the KDD_ROLE_ACTION_MAP table as follows: where the CASE_ROLE_ACTION_MAP_SEQ represents the next sequential number for a record in this table:

```
insert into KDD_ROLE_ACTION_MAP (CASE_ROLE_ACTION_MAP_SEQ, ROLE_CD, ACTION_CD) values (22, 'CMANALYST1', 'CA73A')
```

2. Each record in the Case Role to Action Map table represents the mapping between user roles and the actions that a particular user role is allowed to perform. Each Action can be mapped to multiple roles.

NOTE If you are adding new records, then start the CASE_ROLE_ACTION_MAP_SEQ with a higher number like 30000.

16.1.3.4 Mapping the New Action to Status

1. Create a new action Role mapping by adding a new record in the KDD_STATUS_ACTION_MAP table as follows: where the CASE_STATUS_ACTION_MAP_SEQ represents the next sequential number for a record in this table:

```
insert into KDD_STATUS_ACTION_MAP (CASE_STATUS_ACTION_MAP_SEQ, STATUS_CD, ACTION_CD) values (26, 'RO', 'CA73A')
```

2. Each record in the Case Status to Action table captures the actions that will be available for a case based on the case's current status.

NOTE If you are adding new records, then start the CASE_STATUS_ACTION_MAP_SEQ with a higher number like 30000.

16.1.3.5 Map the New Action to the Case Type

1. Create a new Case Type Action mapping by adding a new record in the KDD_CASETYPE_ACTION_MAP table as follows, where the CASE_CASETYPE_ACTION_MAP_SEQ represents the next sequential number for a record in this table:

```
insert into KDD_CASETYPE_ACTION_MAP (CASE_CASETYPE_ACTION_MAP_SEQ, ACTION_CD, CASE_TYPE_SUBTYPE_CD) values (80, 'CA73S', 'AML_SURV')
```

NOTE If you are adding new records, then start the CASE_CASE-TYPE_ACTION_MAP_SEQ with a higher number like 30000.

- Records in the Case Type to Action table represent actions that are available for a case based on the case type combination of the case.

16.1.4 Configuring Standard Comment Data

Configuring standard comments and standard comment categories are similar to configuring them for the Case Actions pop-up. The comments are created in the KDD_CMMNT table, and the categories are in the KDD_CMMNT_CAT_CD table. Mapping of Standard Comment and case type is made by entering a record in the KDD_CASE_TYPE_CMMNT table in Case Management schema.

For adding a new record in the KDD_CASE_TYPE_CMMNT table, follow the script:

```
insert into KDD_CASE_TYPE_CMMNT (CASE_TYPE_CD, CMMNT_ID) values ('AML_SURV', 8090)
```

16.2 Action Validation Framework

The action validator framework allows you to perform the validation based on the configuration made in the table KDD_ACTION_VLDTN.

Examples:

- If you want to set a validation rule where you want to exclude the comments action(CA8) when Send Email Action is taken , then for “Send Email Action”(CA921), set the below configuration entries in the KDD_ACTION_VLDTN table:

Table 13: KDD_ACTION_VLDTN table

| ACTION_CD | VLDTN_TYPE | VLDTN_CON-FIG_DATA | VLDTN_-FLD_MSG | VLDT-N_ORDER | ACTV_FL |
|-----------|------------|--------------------|----------------|--------------|---------|
| CA921 | EXCLUDE | CA8 | (null) | (null) | Y |

When this validation rule is executed, an error message will display.

- If you want to a set a validation rule where Case Owner and Case Assignee values should not be the same, then for “Set Case Owner” (CA938) and “Set Case Assignee” (CA939), set below JAVAS- CRIPT validator in KDD_ACTION_VLDTN table:

Table 14: KDD_ACTION_VLDTN table

| ACTION_CD | VLDTN_TYPE | VLDTN_CON-FIG_DATA | VLDTN_-FLD_MSG | VLDT-N_ORDER | ACTV_FL |
|-----------|------------|------------------------|--------------------------------|--------------|---------|
| CA938 | JAVASCRIPT | validateOwn-erAssignee | REN-DERE.CM_TA_OWNRASS-GN_NTSM | 1 | (null) |

Table 14: KDD_ACTION_VLDTN table

| ACTION_CD | VLDTN_TYPE | VLDTN_CONFIG_DATA | VLDTN_FLD_MSG | VLDTN_ORDER | ACTV_FL |
|-----------|------------|-----------------------|-------------------------------|-------------|---------|
| CA939 | JAVASCRIPT | validateOwnerAssignee | RENDERE.CM_TA_OWNRRASSGN_NTSM | 1 | (null) |

When this validation rule is executed, an error message will display.

16.2.1 KDD_ACTION_VLDTN Table

Table 15: KDD_ACTION_VLDTN table

| Column Name | Primary Key | Column Type | Nullable |
|-------------------|-------------|----------------------|----------|
| ACTION_CD | Y | VARCHAR2 (20 CHAR) | No |
| VLDTN_TYPE | Y | VARCHAR2 (50 CHAR) | No |
| VLDTN_CONFIG_DATA | Y | VARCHAR2 (4000 CHAR) | No |
| VLDTN_FLD_MSG | | VARCHAR2 (1000 CHAR) | Yes |
| VLDTN_ORDER | | NUMBER(10) | Yes |
| ACTV_FL | | VARCHAR2 (1 CHAR) | Yes |

- **ACTION_CD:** This is the Action code for which validation will be performed.
- **VLDTN_TYPE:** Indicates the Validation Type. Below are the possible values
 - EXCLUDE: Exclude Action validator
 - INCLUDE: Include Mandatory Action validator
 - QUERY: Query-based validator
 - JAVASCRIPT: JavaScript-based client-side validator
- **VLDTN_CONFIG_DATA:** Indicates the configuration for the validator.
 - For Exclude Type:
Action codes which are mutually exclusive for this action must be provided. Multiple action codes need to be provided in separate rows with type as EXCLUDE.
 - For Include Type:
Action codes which are mandatorily inclusive for this action must be provided. Multiple action codes need to be provided in separate rows with type as INCLUDE.
 - For Query Type:
Query needs to be provided in the VLDTN_CONFIG_DATA column. The query should be such that in case of failure should return false and in case of success should return true. Both request and session attributes are supported. You can specify them using the below notation:

Request Attributes: @@AttributeName@@

Session Attributes: ##AttributeName##

Below is list of seeded parameters to Query Validator:

- actionCode (Action Code for which the validation is been performed)
- ReviewId (Case ID on which the action is performed)
- setDDActnVal (Set Due Date Value)
- clearDDActnVal (Clear Due Date Value)
- setCAActnVal (Case Assignee Value)
- setCOActnVal (Case Owner Value)
- autoAssgnActnVal (Auto Assignment value)
- emailFromIdActnVal (Email From Value)
- emailSubjTextActnVal (Email Subject Value)
- emailToldActnVal (Email To Value)
- emailBodyTextActnVal (Email Body Value)
- commentsStdActnVal (Standard Comments value under CommentsAction)
- addInCommentsActnVal (Textual Comments value under CommentsAction)
- attachCommentsStdActnVal (Standard Comments value under AttachmentAction)
- attachAddInCommentsActnVal (Textual Comments value under AttachmentAction)
- attachFileNameActnVal (File Name under Attachment Action)
- closedCasesAvail (Indicates if any of the selected cases are in a closed status)
- pmfActionsAvail (Indicates if any PMF action is selected or not)

■ For JAVASCRIPT Type:

JavaScript method name should be provided in VLDTN_CONFIG_DATA column. The method can be defined in any custom **JS** file. Follow the steps mentioned in *Adding a custom JS file in ECM*.

This method should have two inputs one is the actionCode for which this validator is defined and another input is the userEnteredValueMap which contains below attributes that holds user entered values on the Take Action page:

- setDDActnVal (Set Due Date Value)
- clearDDActnVal (Clear Due Date)
- setCAActnVal (Case Assignee Value)
- setCOActnVal (Case Owner Value)
- autoAssgnActnVal (Auto Assignment Value)
- emailFromIdActnVal (Email From Value)
- emailSubjTextActnVal (Email Subject Value)
- emailToldActnVal (Email To Value)
- emailBodyTextActnVal (Email Body Value)

- commentsStdActnVal (Standard Comments value under CommentsAction)
- addInCommentsActnVal (Textual Comments value under CommentsAction)
- attachCommentsStdActnVal (Standard Comments value under AttachmentAction)
- attachAddInCommentsActnVal (Textual Comments value under AttachmentAction)
- attachFileNameActnVal (File Name under Attachment Action)

The method should return true if the validation is successful or false if the validation fails.

16.2.2 Adding Custom JS file in ECM:

1. Copy the custom JS file to <<deployedarea>>/ojff/js/appCommon
2. Go to <<deployedarea>>/ojff/js/appCommon/viewModels/aai-ecm.js. In aai-ecm.js add entry for your js file in the define block. For example, if your custom JS file name is customValidator.js, then add as shown below

```

var viewLoad=false;
var lastSearchedItem=null;
var searchedPreviousValue=[];
var selectedViewSeqId=null;
var searchTrack=false;

define([
    'knockout',
    'ojs/ojcore',
    'knockoutmapping',
    'EventDispatcher',
    'appCommon/cmSolution',
    'appCommon/cmCommon',
    'appCommon/cmLayout',
    'appCommon/customValidator'
],

function (
    ko,
    ojs,
    koMapping,
    EventDispatcher
) {
    function ECMPageViewModel(params) {
        var self = this;
        var routerConfigArray = getRouterConfigArray();
        self.form = routerConfigArray.lastLoadedModule;
        self.queryString = routerConfigArray.lastQueryString;
    }
    return ECMPageViewModel;
});

```

- **VLDTN_FLD_MSG:** This is used to specify a particular message constant to be shown in case of validation failure. If no message is configured default message will be shown. Default Messages are as below:

Exclude Validator:

<ACTION NAME1> is not permitted along with <ACTION_NAME2>

Include Validator:

<ACTION NAME1> must be mandatorily taken along with <ACTION_NAME2>

Query Validator:

Query validation failed for <ACTION NAME1>

JavaScript Validator:

Validation failed for <METHOD_NAME>

- **VLDTN_ORDER:** Numeric Sequence indicating the order of the validator within a particular action code.
- **ACTV_FL:** Flag to identify whether the mentioned action validator is active or not.

NOTE

After making the changes in the table, restart the server.

17 Configuring Web Application

As an Oracle Financial Services Administrator, you can customize features in the Web Application UI. This chapter contains information about configuring session time out.

17.1 Configuring the Session Timeout Setting

This section describes the following topics:

- [Configuring the Session Timeout Setting](#)
- [Configuring the Session Timeout Setting for Admin Tools](#)

17.1.1 Configuring the Session Timeout Setting

As an Oracle Financial Services Administrator, you can set the inactive web application users to automatically log off by setting the number of minutes that a user can remain inactive. This results in an automatic user log-off that terminates the user's session.

For more information on how to set the duration before logout for inactive sessions, see the [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

17.1.2 Configuring the Session Timeout Setting for Admin Tools

As Oracle Financial Services Administrator, you can optionally log off inactive Web Application users by establishing a set number of minutes that a user can remain inactive. This results in an automatic user log-off that terminates the user's session.

To modify the idle session timeout for idle or inactive users, follow these steps:

1. Open the web.xml file associated with the WebLogic or WebSphere application.
2. You can find this file in the WEB-INF directory under each Web application in the Oracle Financial Services installation.
3. Modify the XML code within the file that contains `<session-config>` in its `<session-descriptor>` entry.
4. Do this by setting the `<session-timeout>` part of the entry so that the number of minutes equals the current quantity of minutes of inactivity that result in a logoff.
5. Save the changes.
6. After setting the parameter to 30 minutes, the edited XML code should look similar to the following:

```
<session-config>  
<session-timeout>30</session-timeout>  
</session-config>
```

18 Additional Configuration

This chapter provides the details on additional configuration activities.

- [Correlation Case Type Mapping](#)
- [Case Priority](#)
- [Case Domain and Jurisdiction](#)
- [Populating Country ID](#)
- [Adding Relationship Type values for Involved Parties](#)
- [Configuring Case Age](#)
- [Configuring Case Allocation](#)
- [Adding and Configuring Case Type Attribute](#)
- [Adding and Configuring Search Attributes](#)
- [Adding and Configuring Derived Attribute](#)
- [Configuring the Case Title](#)
- [Adding Event Decision for Customer Screening](#)
- [Configuring a Case as Read Only](#)
- [Configuring Quality Control \(QC\) Sampling Rules](#)
- [Event Purge](#)
- [Event Expiry](#)
- [Enabling Quantifind](#)
- [Configuring Quantifind Batch Processing](#)

18.1 Correlation Case Type Mapping

Define the Case Type mapping before executing the batch. This configuration activity allows you to define the mapping between correlation rule and case type. This is performed using the `FCC_CORRELATION_CASE_TYPE_MAP` table.

Table 16: Correlation Case Type Mapping

| Column Name | Primary Key | Column Type | Nullable |
|--------------------------------------|-------------|-------------|----------|
| <code>N_CORRELATION_RULE_SKEY</code> | Y | NUMBER(10) | No |
| <code>V_CASE_TYPE</code> | | VARCHAR2 | No |

- `N_CORRELATION_RULE_SKEY`: This is the correlation rule unique Identification number.
- `V_CASE_TYPE`: This is the type of the case. This entry should be the same as mentioned in `KDD_CASE_TYPE_SUBTYPE` table. For more information, see the [Case Type](#) section.

To perform this activity, follow these steps:

1. Add a new entry in `FCC_CORRELATION_CASE_TYPE_MAP` table. For example, `N_CORRELATION_RULE_SKEY` can be 1, 2, 3 and `V_CASE_TYPE` can be CS_SAN, AML_SURV, CS_EDD.

NOTE The value of the `N_CORRELATION_RULE_SKEY` column (rule number) should be the same as defined in the `FCC_CORRELATION_RULE` table.

18.2 Case Priority

You can define the priority of the case using the `FCC_CASE_PRIORITY` table.

The scale defined in the `FCC_CASE_PRIORITY` table should match with the rating values defined for case priority in table `KDD_CODE_SET_TRNLN`.

NOTE If the entry is not present for a case type in table `FCC_CASE_PRIORITY`, then the Case Priority will be set as 'High'.

18.3 Case Domain and Jurisdiction

Values must be defined for jurisdiction and domain `FCC_SECURITY_ATTRIBUTES` table before running correlation.

18.4 Populating Country ID

To populate the country ID, follow these steps:

1. Populate the `KDD_COUNTRY` table using the below query. This query will select the data from `STG_COUNTRY_MASTER` and insert into `KDD_COUNTRY` table:

```
INSERT INTO kdd_country
(country_id, country_cd, country_nm, country_desc)
WITH country_data AS
(SELECT DISTINCT v_iso_country_cd, v_country_name, v_country_desc
FROM stg_country_master
WHERE TO_DATE(fic_mis_date, 'DD-Mon-YY') = TO_DATE(?, 'DD-Mon-YY'))
SELECT cm_geography_seq.nextval,
       v_iso_country_cd,
       v_country_name,
       v_country_desc
FROM country_data
WHERE NOT EXISTS
(SELECT 1
FROM kdd_country kc
WHERE kc.country_cd = country_data.v_iso_country_cd);
```

18.5 Adding Relationship Type values for Involved Parties

You can add or edit the Relationship Type values in the Relationship Type drop-down for Involved Parties. For example,

if you have two relationship types as Primary Suspect and Secondary Suspect, then add the following entries for InvolvedPrtyRelType and RelationshipType-InvParty in the KDD_CODE_SET_TRNLN table (Atomic Schema) as shown below:

Table 17: KDD_CODE_SET_TRNLIN Table

| CODE_SET | CODE_VAL | SRC_SYS_CD | CODE_DISP_TX | CODE_SET_DSP |
|---------------------------|----------|------------|-------------------|--------------|
| InvolvedPrtyRel-Type | PS1 | | Primary Suspect | |
| InvolvedPrtyRel-Type | SS1 | | Secondary Suspect | |
| RelationshipType-InvParty | PS1 | | Primary Suspect | |
| RelationshipType-InvParty | SS1 | | Secondary Suspect | |

The newly added values will reflect in the Relationship Type drop-down on Involved Parties UI. This update can be viewed on the Account, Customer, External Entity, and Involved Party tabs.

18.6 Configuring Case Allocation

The Case Allocation feature automatically assigns the new and existing cases to individuals or pools at any point during the case investigation process based on a defined allocation rule. This feature saves the time of managers/administrators who manually go through each case and assign them to team members based on the selected criteria.

Following tables are used for configuring this feature:

- FCC_ASSGN_RULE_DEFN is used for defining the rules.
- FCC_ASSGN_RULE_USER_MAP is used for mapping the rules to a user/pool.

The allocation task runs along with the correlation batch. But, if you want to run it multiple times in a day, then it can be configured to run independently by scheduling tasks accordingly in a run-rule framework.

Administrators or Allocation Team Lead can create the Allocation Rules.

Administrators can add multiple filter conditions for a single rule by adding multiple rows with the same Rule ID.

Below is the sample rule that defines an assignment rule by case age greater than 30 days, case type of 'Trade Finance', and of Jurisdiction 'IN-CIC'. To configure this, follow these steps:

1. To define the rule, add entries in the FCC_ASSGN_RULE_DEFN table. Case allocation rules are defined in table FCC_ASSGN_RULE_DEFN.

Table 18: FCC_ASSGN_RULE_DEFN Table

| V_RULE_NAME | N_RULE_ID | V_FILTER_NM | V_FILTER_OPERATOR | V_FILTER_VAL |
|-----------------------------|-----------|--------------|-------------------|-----------------|
| TF Cases Older than 30 Days | 1 | AGE | > | 30 |
| TF Cases Older than 30 Days | 1 | CASE_TYPE_CD | = | 'Trade Finance' |
| TF Cases Older than 30 Days | 1 | JRSDCN_CD | = | 'IN-CIC' |

- V_RULE_NAME: The name used to define the rule.
 - V_RULE_ID: A unique rule ID for the rule.
 - V_FILTER_NM: The column name of the case attribute which is being filtered. Filter names should be the same as the column name in KDD_CASES tale. For example, if the rule is for filtering cases by case score, then the filter name will be 'SCORE_CT'.
 - V_FILTER_OPERATOR: A filter operator applicable for the attribute. The framework supports filter operators <, >, >=, <=, =, IN and BETWEEN.
 - V_FILTER_VAL: The filter values for the defined attribute. For example, if the filter is to allocate based on status, then the values would be 'OPEN', 'REVIEW', and so on. These must be values that are defined in the PMF workflow associated with this type of case (as defined with a filter name for that rule)
2. An individual user/pool is mapped to a rule in table FCC_ASSGN_RULE_USER_MAP. When these rules are run, then the administrator/manager can make the individual/pool the assignee and the owner of the case. A single user/pool can be mapped to multiple rules if necessary and a single rule can be mapped to multiple individuals/pools. In the below example, a user is mapped to three different rules, so the user will get three different flavors of cases. User capacity is calculated by the cases assigned by each rule but not by the aggregated capacity of all the rules mapped to him. Add the following entries in the FCC_ASSGN_RULE_USER_MAP table:

Table 19: FCC_ASSGN_RULE_USER_MAP Table

| V_US-ER_NAME | V_RULE_NAME | V_ACTIVE | N_USER_ID | N_US-ER_CAP | N_RULE_ID | N_CURR-CAP | N_PRIORITY |
|--------------|-----------------------------|----------|-----------|-------------|-----------|------------|------------|
| Bob Smith | TF Cases Older than 30 Days | Y | 1234 | 30 | 1 | | 1 |
| Bob Smith | AML Complex Cases | Y | 1234 | 30 | 2 | | 1 |
| Bob Smith | AML Easy Cases | Y | 1234 | 30 | 3 | | 1 |

- V_RULE_NAME: The Rule Name to be mapped for the user/group as defined in table FCC_ASSGN_RULE_DEFN.

- N_RULE_ID: The Rule ID of the rule is defined in table FCC_ASSGN_RULE_DEFN.
- V_USER_NAME: The name of the user/pool.
- N_USER_ID: The exact User/Pool ID as defined in the KDD_REVIEW_OWNER table.
- V_ACTIVE: The status of the rule. Value 'Y' denotes to active the rule. For any value other than 'Y', the system considers the rule inactive and does not allocate the cases as per the rule to a user.
- N_USER_CAP: The maximum number of cases that can be allocated to this user for that rule. The system will not allocate cases beyond that number.
- N_PRIORITY: The priority of that assignment rule is based on which rule gets

assigned. Here, N_USER_ID should be the same as given in the KDD_REVIEW_OWNER table.

The following query is required to fetch the cases by particular scenario type (SCENARIO_SKEY):

```
(Select t.case_intrl_id
      from kdd_cases t
      inner join fcc_precase_case_map pcm on pcm.v_case_id = t.case_in-
tr1_id
      inner join fcc_correlation_event_map cor on cor.n_event_correla-
tion_skey = pcm.n_event_correlation_skey
      inner join fcc_event_details s on s.n_event_skey
= cor.n_event_skey
      where s.N_SCENARIO_SKEY in (279,403));
```

In the above query, 279,403 represents the scenarios which can be used in this attribute. These are obtained from the N_SCENARIO_SKEY field in the FCC_SCENARIO_MASTER table.

18.6.1 Distribution of Cases to Users

When a case comes in the system and it satisfies the all conditions of rule definition, then it will be allocated to user who has Priority as '1.' For example, there are 2 users with priority '1'. When 10 new cases come in the system and they all satisfy the rule definition condition, then 5 cases will be allocated to the user1 (who has priority '1') and 5 cases will be allocated to the user2 (who has priority '1'). That is, the system equally distributes the cases among the users having the same priority. If the capacity of user1 and user2 is full, then cases will be allocated to users who has priority '2'. The cases would not be allocated to other users until the capacity of users with priority '1' is not full.

For example, the same rule is mapped to two different users. Let's assume, the rule has filtered 125 available cases for assignment, and Bob and Sue's buckets are empty. Here, the priority of Bob is '1' and Sue's priority is '2'. The system will allocate 100 cases to Bob and then 25 cases to Sue.

Table 20: Load Balancing

| V_US-ER_NAM E | V_RULE_NAM E | V_AC-TIVE | N_US-ER_ID | N_USER_CAP | N_RULE_I D | N_CUR-R_CAP | N_PRI-ORITY |
|---------------|-----------------------------|-----------|------------|------------|------------|-------------|-------------|
| Bob Smith | TF Cases Older than 30 Days | Y | 1234 | 100 | 1 | | 1 |

Table 20: Load Balancing

| V_US-ER_NAME | V_RULE_NAME | V_ACTIVE | N_US-ER_ID | N_USER_CAP | N_RULE_ID | N_CUR-R_CAP | N_PRI-ORITY |
|--------------|-----------------------------|----------|------------|------------|-----------|-------------|-------------|
| Sue Green | TF Cases Older than 30 Days | Y | 1234 | 100 | 1 | | 2 |

Cases get assigned to the user only if the case security mapping is satisfied with that user. The assignment will happen based on the security mapping constraints (Jurisdiction, Business Domain, and Case Type).

The following seeded attributes are available for rule creation. All of these columns are defined in the KDD_CASES table.

Table 21: KDD_CASES Table

| Attribute | Function |
|--------------|-----------------|
| STATUS_CD | Status |
| JRSDCN_CD | Jurisdiction |
| PRIORITY_CD | Case Priority |
| BUS_DMN_ST | Business Domain |
| SCORE_CT | Case Score |
| CASE_TYPE_CD | Case Type |
| AGE | Case Age |

18.7 Custom Rule Attributes

If you want to define a rule for an attribute that is not seeded, then use SQL script to define an attribute and insert that as the V_FILTER_VAL in the FCC_ASSGN_RULE_DEFN table.

Below is an example to define and insert the **Event Scenario** as a rule attribute.

A case can have multiple scenarios as a case can have multiple events and in turn these events can be generated for different queries. Insert below query to filter scenario through a rule:

```
insert into FCC_ASSGN_RULE_DEFN (V_RULE_NAME, N_RULE_ID, V_FILTER_NM, V_FILTER_OPERATOR, V_FILTER_VAL)
values ('rule1', 1, 'case_intrl_id', 'in ', ('(select t.case_intrl_id
from kdd_cases t
inner join fcc_precase_case_map pcm on pcm.v_case_id = t.case_intrl_id
inner join fcc_correlation_event_map cor on cor.n_event_correlation_skey =
pcm.n_event_correlation_skey
inner join fcc_event_details s on s.n_event_skey = cor.n_event_skey
where s.N_SCENARIO_SKEY in (XXX,XXX))'));
```

In the above query, XXX,XXX represents the scenarios that can be used in this attribute. This is obtained from the N_SCENARIO_SKEY field in the FCC_SCENARIO_MASTER table.

18.7.1 Configuring Case Age

Case age can be calculated based on Business Days or Calendar Days by updating the configurable parameter set in the Installation Parameter table, from the Manage Parameters screen. (For more information, see the [Configuring Case Age Calculation](#) section).

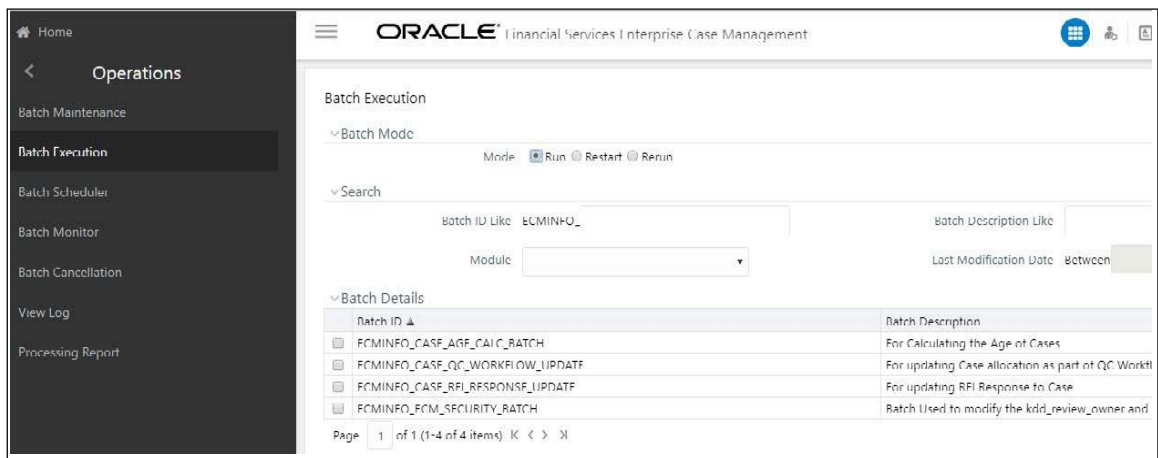
Calculation of Case Age is done by running the Batch <INFODOM>_CASE_AGE_CALC_BATCH. For more information, see the [Executing Case Age Calculation Batch](#) section.

This will update the KDD_CASES_AGE column with the age of the case, calculated in business days or calendar days based on the configuration made in the Installation Parameter table.

18.7.2 Executing Case Age Calculation Batch

To execute the Case Age Calculation batch <INFODOM>_CASE_AGE_CALC_BATCH, follow these steps:

1. Login as ECM Administrator.
2. Navigate to the **Common Tasks** option.
3. Select **Operations**.
4. Click **Batch Execution**.



5. Search for <INFODOM>_CASE_AGE_CALC_BATCH (batch and enter the Information Date (MIS date) using Calendar. Click **Execute Batch**.

The screenshot shows the 'Batch Execution' interface. At the top, there's a 'Batch Mode' section with radio buttons for 'Run', 'Restart', and 'Rerun'. Below that is a search section with input fields for 'Batch ID Like', 'Batch Description Like', and 'Module'. There's also a date range selector for 'Last Modification Date'. The 'Batch Details' section contains a table with columns 'Batch ID' and 'Batch Description'. The 'Task Details' section contains a table with columns 'Task ID', 'Task Description', 'Metadata Value', 'Component ID', 'Precedence', and 'Task Status'.

| Batch ID | Batch Description |
|---|--|
| <input checked="" type="checkbox"/> ECMINFO_CASE_AGE_CALC_BATCH | For Calculating the Age of Cases |
| <input type="checkbox"/> ECMINFO_CASE_QC_WORKFLOW_UPDATE | For updating Case allocation as part of QC Workflow process. |
| <input type="checkbox"/> ECMINFO_CASE_RFI_RESPONSE_UPDATE | For updating RFI Response to Case |
| <input type="checkbox"/> ECMINFO_ECM_SECURITY_BATCH | Batch Used to modify the kdd_review_owner and mappings based on Mapper |

| Task ID | Task Description | Metadata Value | Component ID | Precedence | Task Status |
|---------|---------------------------------------|-------------------|----------------|------------|-------------|
| Task1 | Task for Calculating the Age of Cases | ECM_CASE_AGE_CALC | TRANSFORM DATA | START | N |

6. Click **Ok** on the confirmation box. A batch execution triggered message is displayed.
7. To view the status of the batch, navigate to **Batch Monitor** under **Operations**.

18.8 Configuring Tabs based on Role

You can control the access of a tab based on role. For example, if the **Account** tab is configured for **Analyst** role, then the only **Analyst** will be able to view the **Account** tab.

1. Identify the tab on which you want to provide the control access to the user (based on Role). Here, **##TAB_NAME##** is the placeholder for tab Name.
2. Create an SMS function and map it to the User Role.

Or

Select the unique Function Code. **##FUNCTION_CODE##** is the placeholder for Function Code.

3. Take a backup of following query results from Config schema:

```
select * from AAI_FF_FORMS_CONTAINERS_B t where t.v_form_code='CM_CASE_CONTEXTN' and v_container_name='##TAB_NAME##';
```

```
select * from AAI_FF_TAB_DISPLAY_FILTERS tt where tt.n_container_id in (select t.v_container_id from AAI_FF_FORMS_CONTAINERS_B t where t.v_form_code='CM_CASE_CONTEXTN' and t.v_container_name='##TAB_NAME##')
```

4. Execute following queries in Config schema before replacing the **##placeholder##** with correct values:

```
update AAI_FF_FORMS_CONTAINERS_B t set t.v_view_mode=1, t.v_function_codes='##FUNCTION_CODE##' where t.v_form_code='CM_CASE_CONTEXTN' and v_container_name='##TAB_NAME##'
```

```
delete from AAI_FF_TAB_DISPLAY_FILTERS tt where tt.n_container_id in (select t.v_container_id from AAI_FF_FORMS_CONTAINERS_B t where t.v_form_code='CM_CASE_CONTEXTN' and t.v_container_name='##TAB_NAME##')
```

5. Restart Application and Web servers.

Example:

The following example will explain configuring the Account tab for a specific user role.

1. Create a function called "TEST".

2. Take a backup of following query from Config schema:

```
select * from AAI_FF_FORMS_CONTAINERS_B t where t.v_form_code='CM_CASE_CONTEXTN' and v_container_name='Account';
```

```
select * from AAI_FF_TAB_DISPLAY_FILTERS tt where tt.n_container_id in (select t.v_container_id from AAI_FF_FORMS_CONTAINERS_B t where t.v_form_code='CM_CASE_CONTEXTN' and t.v_container_name='Account')
```

3. Execute following queries in Config schema before replacing the placeholders with correct values. That is, function code as **TEST** and tab name as **Account**.

```
update AAI_FF_FORMS_CONTAINERS_B t set t.v_view_mode=1, t.v_function_codes='TEST' where t.v_form_code='CM_CASE_CONTEXTN' and v_container_name='Account'
```

```
delete from AAI_FF_TAB_DISPLAY_FILTERS tt where tt.n_container_id in (select t.v_container_id from AAI_FF_FORMS_CONTAINERS_B t where t.v_form_code='CM_CASE_CONTEXTN' and t.v_container_name='Account')
```

4. Restart Application and Web servers.

18.9 Adding Standard Comments for Event Decision

If you want to add a new standard comment for event decisions in the Set Event Decision window, then update the KDD_CMMNT and KDD_CASE_TYPE_CMMNT tables. The standard comments can be seeded in the KDD_CMMNT table against CMMNT_CAT_CD=SCDT. These comments can be mapped against case type in the KDD_CASE_TYPE_CMMNT table. This is applicable for both Relevant and Non-Relevant decision.

The newly added standard comments will display in the Standard Comments drop-down list of the Set Event Decision window. These changes will be recorded in the Audit History tab.

18.10 Adding Event Decision for Customer Screening

If you want to add a new event decisions in the Event Decision drop-down of Customer Screening UI, then update the FCC_EVENT_STATUS_B, FCC_EVENT_STATUS_TL, FCC_CASETYPE_EVENT_STATUS_MAP tables. By default, True Positive and False Positive values are provided from the installer (Status ID 3 and 4).

To add a new status value, add the entries into FCC_EVENT_STATUS_B, FCC_EVENT_STATUS_TL, FCC_CASETYPE_EVENT_STATUS_MAP tables and make a corresponding entry into the KDD_ACTION table describing the new status added. Mapping of that status has to be provided in the KDD_INSTALL_PARAMS table:

| PARAM_ID | PARAM_NM | PARAM_VALUE_TX |
|----------|------------------------------|-------------------|
| 500 | CS_EVENT_DECISION_ACTION_MAP | 3:963,4:964,5:800 |

Status ID populates from FCC_EVENT_STATUS_B and Action ID comes from KDD_ACTION.

These changes will be recorded in the Audit History tab.

18.11 Adding Search Results Fields based on Case Type

You can define which attributes should be displayed in the search results for each case type.

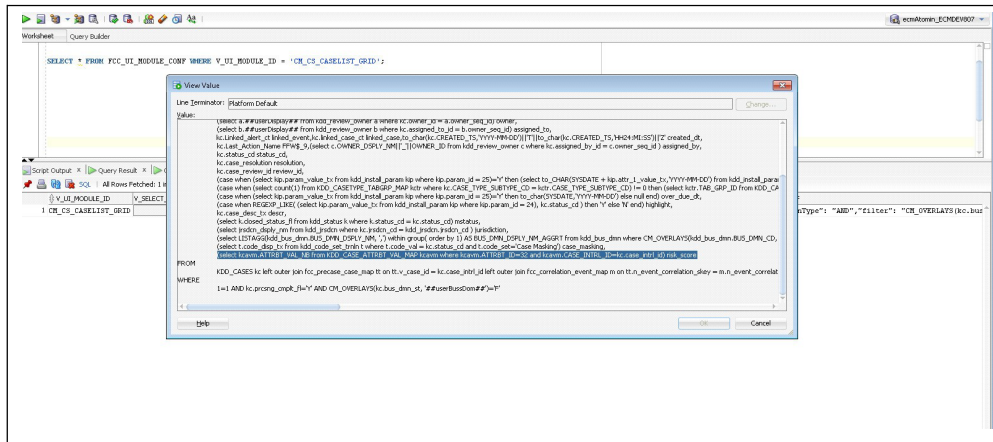
For example: for CS, you can add the attributes like Customer Name, Watch List-ID/Name, and others that are specific to CS cases.

If you want to see a focus column in the case search results, then add this as an attribute. This shows the Focus and the Focus Name ('CU Bob Smith') of the focal entity associated with the case. This is an optional attribute since some cases will have more than one focus.

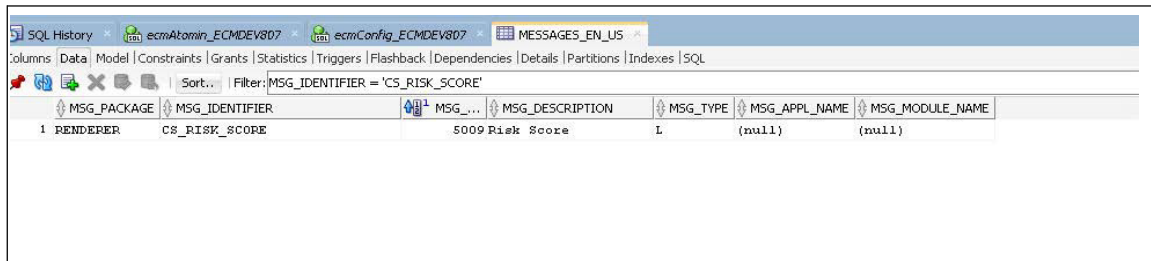
Below example shows adding a new column 'Risk Score' to the existing case type:

1. Update the select query that defines all fields that are returned in the search results to include the new field.

In table FCC_UI_MODULE_CONF where V_UI_MODULE_ID equals to CM_CS_CASELIST_GRID, update the V_SELECT_QUERY field to include the new column in the select part of the query. In this example, we are adding 'risk_score'.



2. The header label for the above column (that is, 'risk_score') needs to be rendered from the MESSAGES_EN_US table. If it is not already listed, then make an entry in the MESSAGES_EN_US table (with config schema) with the MSG_IDENTIFIER as 'CS_RISK_SCORE' and MSG_PACKAGE as 'RENDERER' as shown below.

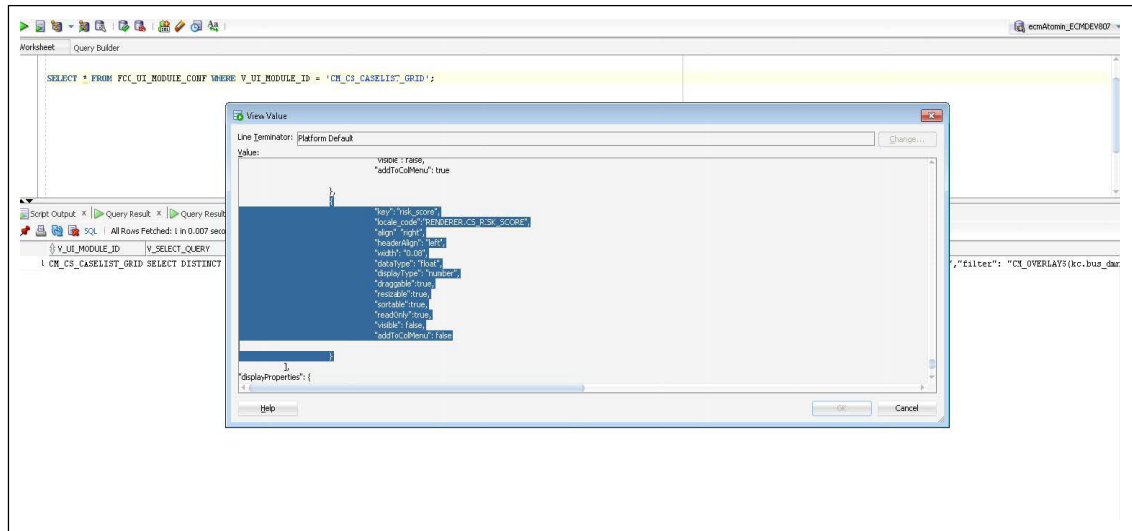


3. Define column details. In table FCC_UI_MODULE_CONF where module ID equals to CM_CS_CASELIST_GRID, update the V_MODULE_PROP field to include the column definition for the value-added above. Each value has the following attributes:

```
"key": "risk_score",  
"locale_code": "RENDERER.CS_RISK_SCORE",  
"align": "right",  
"headerAlign": "left",  
"width": "0.08",  
"dataType": "float",  
"displayType": "number",  
"draggable": true,  
"resizable": true,  
"sortable": true,  
"readOnly": true,  
"visible": false,  
"addToColMenu": false
```

NOTE

- 'key' property should match with the 'alias' name given in the query defined in Step 1.
- The 'locale_code' is the label for the column header and it is rendered from the MESSAGES_EN_US table as explained in Step 2. It follows the convention [MSG_PACKAGE].[MSG_IDENTIFIER] from the MESSAGES_EN_US table.
- For the new column, 'visible' property should be set to False.
- For the new column, 'addToColMenu' property should be set to False.
- The other variables define the column's functionality.
- If multiple case types are selected to be searched on that have conflicting search results a default set of fields are displayed, then set the "visible" and "addToColMenu" to True to show this field in that default setting.



4. Define the new field in table KDD_CASEATTRBT_MASTER and then enter it in table KDD_CASE-ATTRBT_COLMNIID_MAP.

| ATTRBT_ID | COLMNI_ID |
|-----------|-----------------|
| 1 | 1 case_id |
| 2 | 3 case_type |
| 3 | 4 status |
| 4 | 5 case_title |
| 5 | 6 jurisdiction |
| 6 | 7 bus_domain |
| 7 | 15 priority |
| 8 | 18 created_dt |
| 9 | 21 due_dt |
| 10 | 23 owner |
| 11 | 25 assigned_to |
| 12 | 26 linked_event |
| 13 | 27 linked_case |
| 14 | 29 descr |
| 15 | 32 risk_score |

5. Assign the new column ID to the applicable case types and define the order. Define the visible as default, if required. Map all the required column IDs to the selected case type in the KDD_CASE-TYPE_COLMNIID_MAP table.

| CASE_TYPE_SUBTYPE_CD | COLMN_ID | DPLY_ORDR | DFLT_VISIBLE_FL |
|----------------------|--------------|-----------|-----------------|
| 1 KYC_CORP | case_id | | 1 Y |
| 2 KYC_CORP | case_type | | 2 Y |
| 3 KYC_CORP | status | | 3 Y |
| 4 KYC_CORP | case_title | | 4 Y |
| 5 KYC_CORP | jurisdiction | | 5 N |
| 6 KYC_CORP | bus_domain | | 6 N |
| 7 KYC_CORP | priority | | 7 Y |
| 8 KYC_CORP | created_dt | | 8 Y |
| 9 KYC_CORP | due_dt | | 9 Y |
| 10 KYC_CORP | owner | | 10 N |
| 11 KYC_CORP | assigned_to | | 11 N |
| 12 KYC_CORP | linked_event | | 12 N |
| 13 KYC_CORP | linked_case | | 13 N |
| 14 KYC_CORP | descr | | 14 N |
| 15 KYC_CORP | risk_score | | 15 Y |

- After adding these columns for a new Case Type, create the new Case Type. If the new Case Type is created already or adding columns for an existing Case Type, then re-load the Case Designer screen and edit. Again save the Case Type.

NOTE From the case designer, edit the description if required. For example, enter a space at the end of the description and then remove the space and click Save.

- Verify the configuration on the Search Case page.

18.12 Adding and Configuring Case Type Attribute

You can create and configure a case attribute which can be used in Case Type Designer. You can define the attribute in the Case Attribute Master table (KDD_CASEATTRBT_MASTER). Here, you define the attribute name and the type of attribute.

- Define the type of attribute in the ATTRBT_TYPE_CD column. The following types are available:
 - Text box: Allows for string values
 - Hierarchy: The field brings the data from another table. The table it pulls from is defined in Case Attribute Value (KDD_CASEATTRBT_VAL). In this table, the following should be defined for each hierarchy attribute. It is not possible at this time to have nested hierarchy drop-downs.
 - The first row defines the table where the values should be retrieved.
 - The second row is the ID attribute
 - The third row defines which column to show in the drop-down list
 - The fourth row is a Yes/No values to define if the multiple select options should be shown for the drop-down.
 - The fifth row is used to specify the filter ('Where' clause) for the table if any is needed.
 - The sixth row is used to specify the order by attribute. If not specified, it orders the values based on the description or shown column (third-row value).

- Drop-down: This is used for defining a finite set of values that do not come from a table. The Case Attribute Value table is also used to define the list. For each attribute, there should be one row for each value in the drop-down. The Drop-down will always be singleselect.
- Date: The format of the date field is defined in the ATTRBT_DT_FRMT column of the table.
- Textarea: Allows for text areas
- Checkbox: Allows for any number of values to be check-box options. The Case Attribute Value table is also used to define the list. For each attribute, there should be one row for each value that needs a checkbox. Checkbox attributes are multi-select
- Number: The number field automatically comes with the up/down arrows when displayed.
- Derived: This type allows you to derive the attribute from information related to the case in the case. Derived Attributes are only visible in the Case Context Area of the case. They are not shown on the Manual Case Creation page or the search page (even if configured as such). They are also read-only in format. Any value can be derived as long as it can be obtained from the Case ID.

NOTE If the attribute is mandatory for all case types, then the ATTRBT_MNDTRY_FL column is set to Y for that attribute.

2. For Derived type attributes code, define the query that retrieves the value. Enter the query into the ATTRBT_VAL column of the **KDD_CASEATTRBT_VAL** table. Both request and session parameters are supported. You can specify them using the below notation:
Request Parameter: @@ ParameterName@@
Session Parameter: ## ParameterName##
3. Define the behavior of each attribute that is how it behaves in the UI need to be defined. Define this in Case Attribute Behavior table **KDD_CASEATTRBT_BHVR**. Define the following page codes in the **PAGE_CD** column for every attribute:
 - Case Designer: Controls the attribute's behavior in Case Type Designer
 - Create: Controls the attribute's behavior in Manual Case Creation
 - Modify: Controls the attribute's behavior in the Case Context
 - Operator: If the attribute is a number field this controls if there is an operator in the search field for this attribute. Currently available operators are Greater than Equal to, Less than Equal to, and Equal To.
 - Search: Controls the attributes behavior in Case Search
4. Define the behavior of each page code in the **ATTRBT_MODE_NB** column:
 - 1: Editable
 - 2: Disabled
 - 3: Hidden
5. For derived type attributes, a record for each page code needs to be added to the **KDD_CASEATTRBT_BHVR** table. You can define the following modes:
 - CaseDesigner: 1
 - Create: 3

- Modify: 2
- Operator: 3
- Search: 3

18.12.1 Adding and Configuring Search Attributes

You can customize new search attributes in ECM. Following types of Search Attributes available based on its visibility:

There are the following two types of Search attributes:

- **Generic Search Attribute**
- **Case Type Specific Search Attributes**

Both Generic and Case Type Specific search attributes can search in two ways based on the tables in which the search is performed.

1. **KDD_CASE_ATTRBT_VAL_MAP** table (Pure Optional Attribute):
 - This type of search attribute performs the search only on the optional attributes present in **KDD_CASE_ATTRBT_VAL_MAP**. Example: Risk Score. For more information, see the [Adding and Configuring Search Attributes](#) section.
2. Searching on a field stored in any other table:
 - This type of search attribute performs the search on any table like **KDD_CASES**, **KDD_CASE_ACTIONS**, or any other table which can be filtered based on join with **KDD_CASES**'s **CASE_INTRL_ID** column.

18.12.1.1 Generic Search Attribute

This type of search attribute implies to all Case Type. It will be available for all case types. It can be displayed in the Less Criteria Section/ More Criteria section. An example is Case Class or Case Created Date.

Perform below additional changes in `<<deployedir>>/ojff/js/viewModels/searchCase.js` to customize the generic search attributes:

1. Add the Search Attribute in the **simpleSearchAttrArray** for the respective Attribute ID. Enter the attribute ID in this array in the order you want it to appear.

```

+ "caseId" + caseId + "application_id" + appId:
getRouteConfigArray(['lastQueryBinding'] =
"=lastOfFromPage=false;readFromCache=true;isCacheRequired=true;isHeaderBannerRequired=false;isHeaderRequired=false;footer=false;formId=CM_CASE_TEST_SEARCH;formStatus=3;parentStatus=3;parentMode=1"
+ caseId);
var commentLabel = getMessage("PENDING_CM_COMMENT");
var urlLabel = getMessage("PENDING_CM_URL");
var simpleSearchAttrArray = [ 15, -1, 2, 3, 4, 5, 23 ]; // Case
// Case
// ID 1
// Type
// 3
// Status
// 4
// Created
// 15

```

2. Add the search parameter passing code for respective Attribute ID under **self.buttonClickSimpleSearch** function.

```

var value = self.caseSimpleSearchAttrArray[3].value;
var id = self.caseSimpleSearchAttrArray[3].id;

if (value != null && value != undefined
    && value != "") {
    switch (id) {
        case 2: // Class
            searchparams = searchparams + "&Class="
                + value;
            break;

        case 3: // Type Subtype
            searchparams = searchparams + "&Type="
                + self.formatparams(value);
            break;

        case 4: // Status
    
```

3. Add the search parameter passing code for respective Attribute ID under **self.buttonClickSearch** function.

```

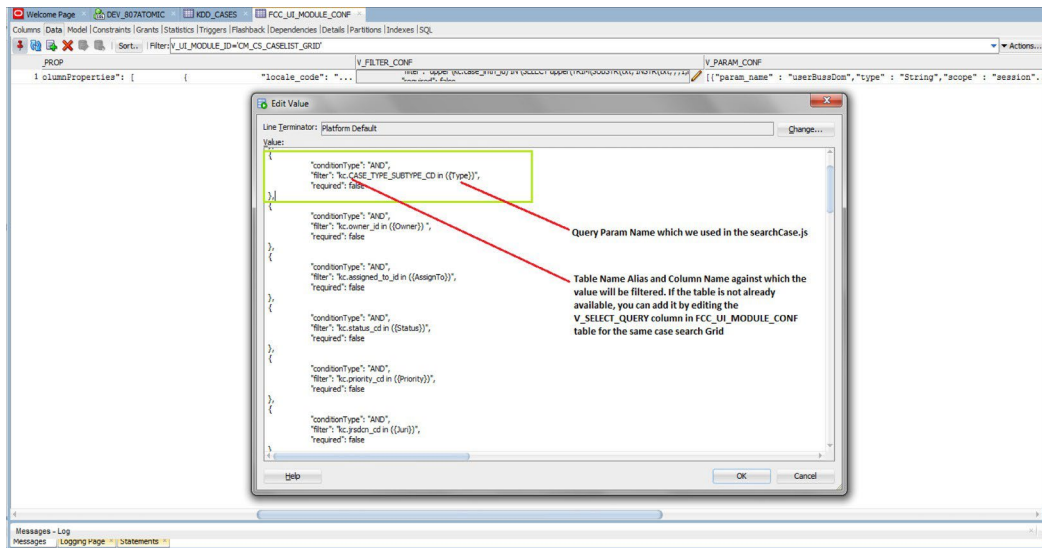
if (value != null && value != undefined
    && value != "") {
    switch (id) {
        case 2: // Class
            searchparams = searchparams + "&Class="
                + value;
            break;

        case 3: // Title
            searchparams = searchparams
                + "&Title="
                + window.BEComponent.formatSearch(
                    value, "%", "%&D%");
            break;

        case 3: // Type Subtype
            searchparams = searchparams + "&Type="
                + self.formatparams(value);
            break;

        case 4: // Owner
    
```

4. Configure the search parameter in the `FCC_UI_MODULE_CONF` table for `V_UI_MODULE_ID='CM_CS_CASELIST_GRID'`. To configure, the `V_FILTER_CONF` entry should be updated with the JSON object for the new search parameter.



18.12.1.2 Case Type Specific Search Attributes

This type of search attribute applies only to the Case Type to which it is associated. It will be shown only in the Optional Attribute Area in More Criteria Section and only when the user selects a Case Type. An example is Risk Score which is displayed when the KYC Case Type is selected.

Perform below additional changes in `<<deployeddir>>/ojff/js/viewModels/searchCase.js` to customize the search attributes:

1. Add the Search Attribute in **AdvSearchOrdrSrchArray** for the respective Attribute ID. Enter the attribute ID in this array in the order you want it to appear.

```

// 18
// Age
// -1
// Event
// ID 33
var AdvSearchOrdrSrchArray = [ 5, 6, 7, 9, 8, 10, 34, 11, 12,
19, 15, 21, 20, 24, 23, 37, 38, 25, 28, -2 ]; // Created
// 46
// Comments
// -2
// Class
// 2
// Type
// 3
    
```

2. Add the search parameter passing code for respective **Attributeld** under **self.buttonClickSearch** function.

```

if (value != null && value != undefined
    && value != "") {
    switch (id) {
        case 2: // Class
            searchparams = searchparams + "&Class="
            + value;
            break;

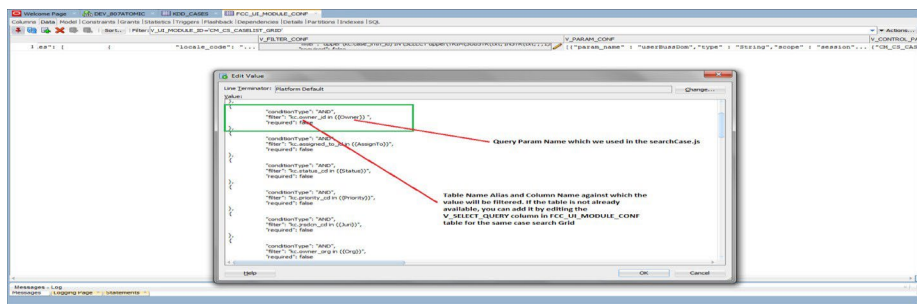
        case 5: // Title
            searchparams = searchparams
            + "&Title="
            + encodeURIComponent(encodeURIComponent(
                value, "%", "_0x25_"));
            break;

        case 3: // Type Subtype
            searchparams = searchparams + "&Type="
            + self.formatparams(value);
            break;

        case 23: // Owner
            searchparams = searchparams + "&Owner="
            + self.formatparams(value);
            break;

        case 25: // AssignTo
    
```

3. Configure the search param in the **FCC_UI_MODULE_CONF** table for **V_UI_MODULE_ID='CM_CS_CASELIST_GRID**. To configure, the **V_FILTER_CONF** entry should be updated with the JSON object for the new search parameter



4. Case type Specific Search Attribute whose search is based on the **KDD_CASE_ATTRBT_VAL_MAP** table, then no advanced configuration is required.

Perform below additional changes in <<deployedir>>/ ojff/js/viewModels/searchCase.js to customize the Case Type Specific Search Attribute whose search is based on any other table:

1. Add the search param passing code for respective Attribute ID under **self.buttonClickSearch** function.

```

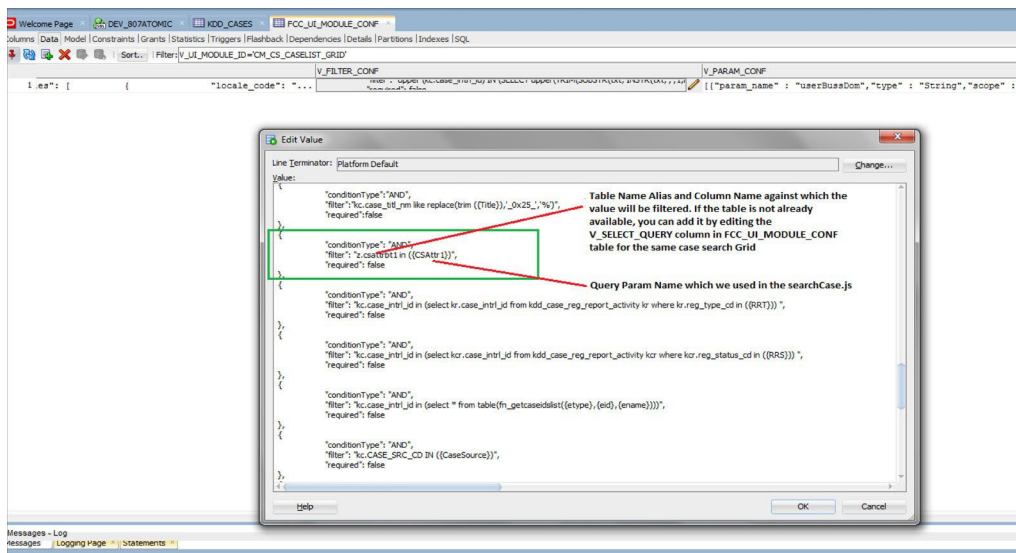
if (value != null && value != undefined)
  && value != "" {
  switch (id) {
  case 0: // CSAttr1
  searchparams = searchparams + "<CSAttr1="
  + self.formatparams(value);
  break;
  case 2: // Class
  searchparams = searchparams + "<Class="
  + value;
  break;
  }
}

```

Attribute Id

Query Param Name which will be used in the grid Query

2. Configure the search param in the FCC_UI_MODULE_CONF table for V_UI_MODULE_ID='CM_CS_CASELIST_GRID. To configure, the V_FILTER_CONF entry should be updated with the JSON object for the new search param.



18.12.2 Adding and Configuring Derived Attribute

You can define the attribute type as “Derived” which will display in the context area of Case Summary UI.

You can add attributes like Show Case Age, the Last Action Taken, Case Created By, Last Updated Date, Last System Added Event Date, Scenario to specific to Case context.

For example, if you want to see a Case Age in the case context, then add this as a derived attribute.

1. Define the basic attribute details in KDD_CASEATTRBT_MASTER with type as “Derived”.

| ATTRBT_ID | ATTRBT_NM | ATTRBT_DESC_TX | ATTRBT_DT_FRMT | ATTRBT_TYPE_CD | ATTRBT_MNDTRY_FL |
|-----------|-------------------|--|----------------|----------------|------------------|
| 39 | Case Reopen Count | Displays the number of time the case was reopened (null) | | Derived | N |

2. Below is the request attribute passed as part of OOB to the getCaseDetails Service:
caseld (Caseld of the case whose details page is currently accessed)

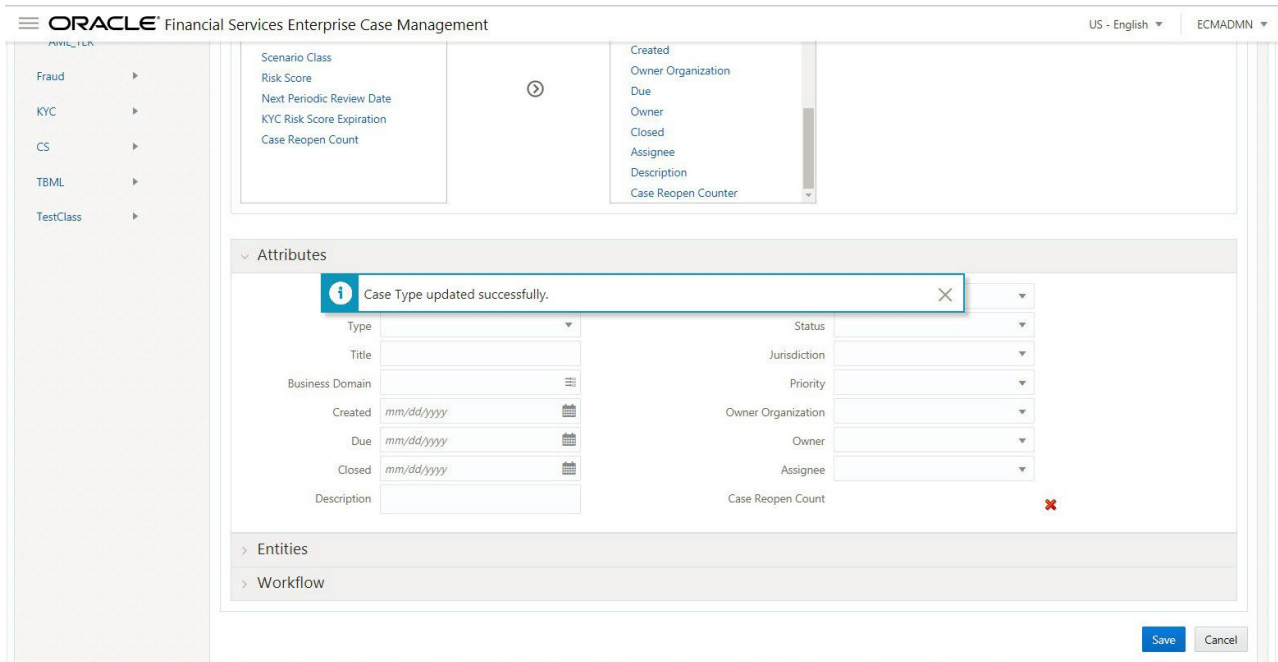
| ATTRBT_ID | ATTRBT_SEQ_NB | ATTRBT_VAL |
|-----------|---------------|--|
| 39 | 1 | select count(*) from kdd_case_actions where CASE_INTRL_ID='@@caseId@@' and ACTION_ID=207 |

- Define the behavior of the attribute in the KDD_CASEATTRBT_BHVR table:

| ATTRBT_ID | PAGE_CD | ATTRBT_MODE_NB |
|-----------|--------------|----------------|
| 39 | CaseDesigner | 1 |
| 39 | Create | 3 |
| 39 | Modify | 2 |
| 39 | Operator | 3 |
| 39 | Search | 3 |

The derived attribute is supported only in Case Designer (for associating/Disassociating) the derived attributes to case types and in Case Details Page (Modify Page) for showing the derived attribute value. Derived Attributes are not displayed on the **Create/Search** page even if configured as visible in the KDD_CASEATTRBT_BHVR table. Also, Derived attributes will be displayed in a read-only format.

- Associate the newly created attribute to the required case type using Case Designer UI.



- Log in as a supervisor and check the Case details of the respective case type for which you have added the derived attribute.

ORACLE Financial Services Enterprise Case Management

US - English SUPERVISOR

Home > Search Cases > Case Summary

Take Action Assign Add Evidence Print Process

Case ID: CA321 Title: DDTTest123 Status: Investigation Priority: Low

Title: DDTTest123

Case ID: CA321 Class: AML Type: AML_DD

Status: Investigation Jurisdiction: Americas Business Domain: EMP

Priority: Low Created: 07/18/2018 Owner Organization: TestOrgA

Due: mm/dd/yyyy Owner: SUPERVISOR Closed: mm/dd/yyyy

Assignee: SUPERVISOR Case Reopen Count: 3

Description: DDTTest123

Save Cancel

Event Details Account Customer Transactions External Entity Involved Party Correlation Network Analysis Relationship Narrative Evidence Audit History

Event List

View Event Details Add Event Statement View Set Event Decision

| Event ID | Focus Type | Focus | Focus Name | Event Type | Scenario Name | Event Generation Date | Highlight | Business Domain | Jurisdiction | External Source System | Event Pron |
|------------------|------------|-------|------------|------------|---------------|-----------------------|-----------|-----------------|--------------|------------------------|------------|
| No Records Found | | | | | | | | | | | |

Records Per Page: 15

18.12.3 Configuring the Case Title

During the Batch execution, all the cases will be updated with a common Case title (correlation rule name) thereby making it difficult to identify a case. To resolve this, you can update the values in the V_CASE_TITLE_RULE field of FCC_CORRELATION_RULE, and add a task manually before batch execution.

The value defined in this field will be populated on the UI after batch execution.

To configure the case title, follow these steps:

1. Update the values in the V_CASE_TITLE_RULE field of FCC_CORRELATION_RULE. For example, customerName, eventType. For more information on the FCC_CORRELATION_RULE table, see [Configuring Correlation](#) section.

For AML case type, the following attributes can be defined:

AML: focusType, focusEntityName

For example, ACCOUNT-YUV : CUSTOMER-CUSTOMER_NAME : ACCOUNT-SAPNA
GOBA : ACCOUNT-SMITH

For CS case type, the following attributes can be defined:

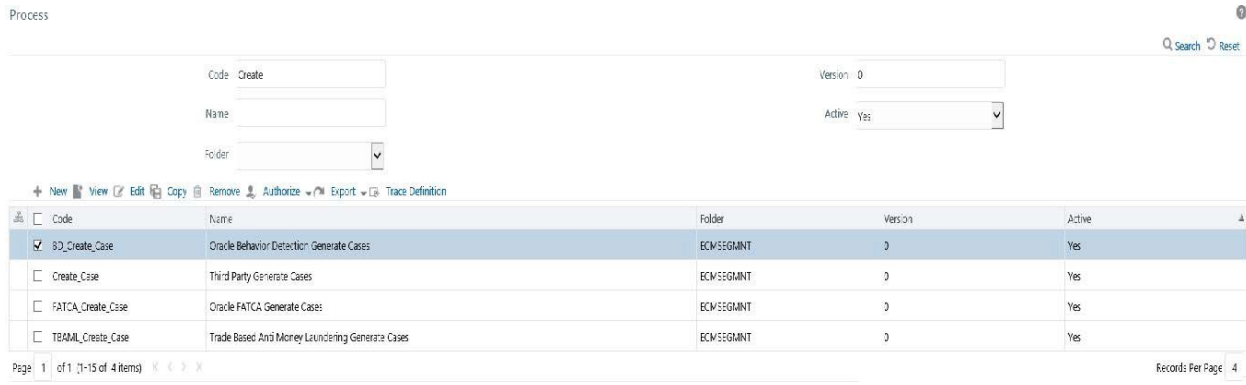
CS: customerName, eventType

For KYC case type, the following attributes can be defined:

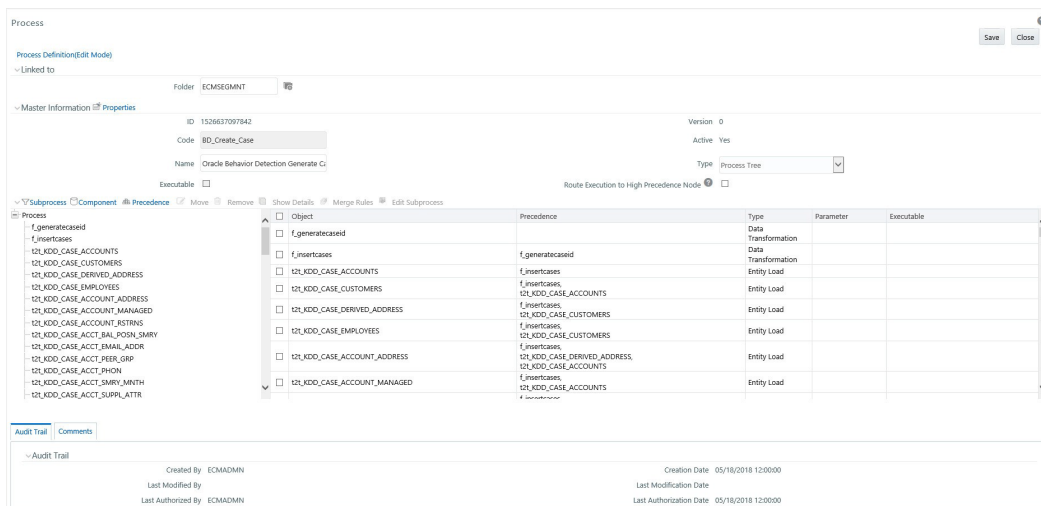
KYC: customerName, kycRiskScore, jurisdiction, businessDomain

2. Create a task case title manually under BD_Create_Case/Create_Case process before batch execution.
3. Navigate to Enterprise Case Management Application.
4. Go to the Common task section. Select the **Run Rule Framework**.

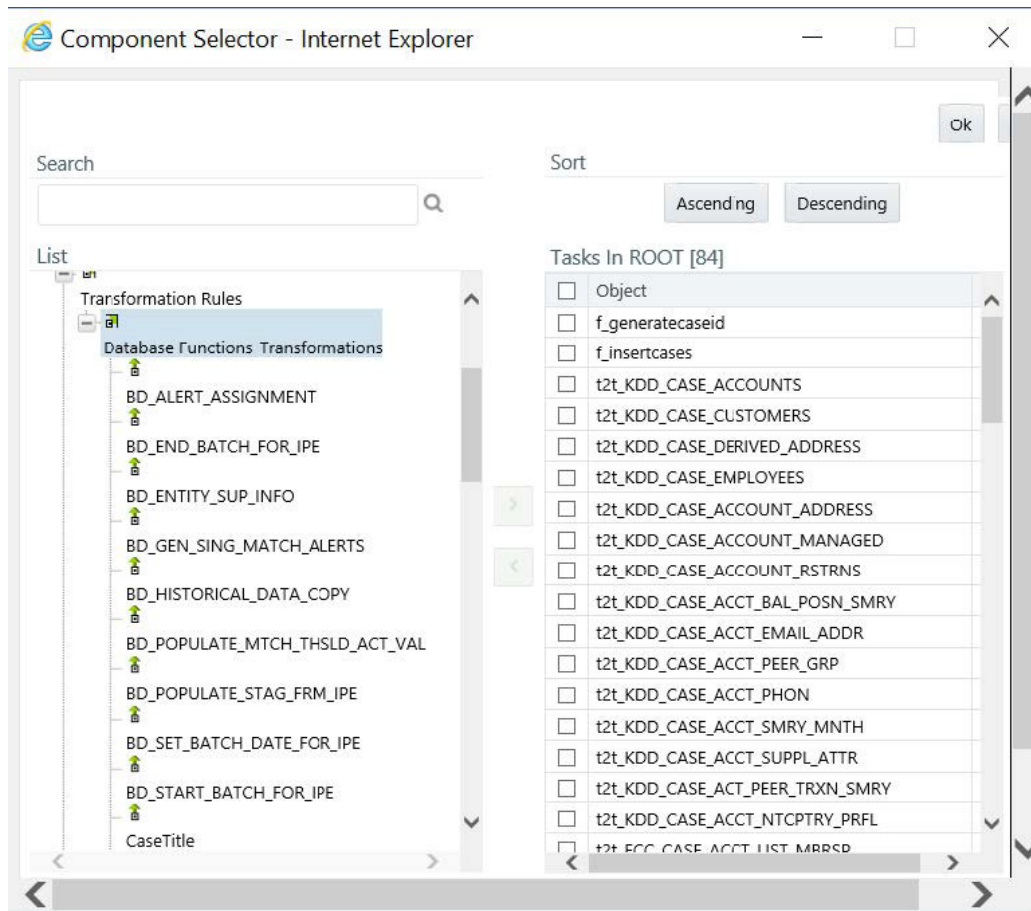
- Click **Process**. The Process window is displayed with the available Processes. Search for 'Create process'. The list of processes will be displayed.



- Select the **BD_Create_Case** and click **Edit**.



- Click **Component**. The Component Selector window is displayed. Under **Transformation Rules**, select **CaseTitle** and move it to the task list.



8. Set the precedence of the task after f_insertcases.

18.13 Configuring a Case as Read Only

An Administrator can define the full access to some case types to the specific user and make some case types to read-only.

For example, if a user has access to case types AML, FR, and KYC, then Administrator can define the view and take the action access to AML case and read-only access to KYC and FR cases for that user. You can only view the case in read-only access but cannot edit the case.

To configure the case as read-only, follow the below steps:

1. Define the Owner Sequence ID (OWNER_SEQ_ID) and Case type (CASE_TYPE_ID) in KDD_REVIEW_OWNER_CSETYP_RDONLY table.

Here, the Owner Sequence ID value should be the same as defined in the KDD_REVIEW_OWNER table. Case type value should be the same as the KDD_REVIEW_OWNER_CASE_TYPE table.

2. Log-in ECM UI as supervisor (or any other user).

18.14 Adding a New Scenario

User can define their own scenarios in the FCC_SCENARIO_MASTER table

Table 22: FCC_SCENARIO_MASTER Table

| Column Name | Primary Key | Column Type |
|----------------------------|-------------|---------------------|
| N_SCENARIO_SKEY | Y | NUMBER(22) |
| V_SCENARIO_NAME | | VARCHAR2(250 CHAR) |
| V_SCENARIO_DESCRIPTION | | VARCHAR2(4000 CHAR) |
| V_SCENARIO_CLASS_CD | | VARCHAR2(250 CHAR) |
| V_SCENARIO_DISPLAY_NAME | | VARCHAR2(250 CHAR) |
| V_SCENARIO_CATALOG_ID | | VARCHAR2(250 CHAR) |
| V_SCENARIO_FOCUS_ENTITY_CD | | VARCHAR2(250 CHAR) |
| N_SCENARIO_SCORE | | NUMBER(22) |
| ORIG_SCENARIO_SKEY | | NUMBER(22) |

- N_SCENARIO_SKEY – Unique Sequence ID
- V_SCENARIO_NAME – Name of the Scenario
- V_SCENARIO_DESCRIPTION – Description of the Scenario
- V_SCENARIO_CLASS_CD – Class of scenario
- V_SCENARIO_DISPLAY_NAME – Display name of the scenario
- V_SCENARIO_CATALOG_ID – Catalog ID of scenario
- V_SCENARIO_FOCUS_ENTITY_CD – Focus entity code of the scenario
- N_SCENARIO_SCORE – Scenario score. This column can be Null.
- ORIG_SCENARIO_SKEY – Scenario ID from the Source system

18.15 Configuring Quality Control (QC) Sampling Rules

You can define one or many sampling rules, based on which cases will move in the workflow for quality analysis.

To add a QC sampling rule:

1. Add the entries in the KDD_QC_RULE_MASTER table. This table is used to define the overall structure of the sampling rules.

Table 23: KDD_QA_RULE_MASTER Table

| Column Name | Primary Key | Column Type | Nullable |
|-------------|-------------|---------------------|----------|
| RULE_ID | Y | NUMBER(10) | |
| RULE_NM | | VARCHAR2(1000 CHAR) | Y |
| RULE_DESC | | VARCHAR2(4000 CHAR) | Y |

Table 23: KDD_QA_RULE_MASTER Table

| | | | |
|--------------------|--|---------------------|---|
| SAMPLE_QNTITY_TYPE | | VARCHAR2(300 CHAR) | Y |
| SAMPLE_QNTITY | | NUMBER(10) | Y |
| DS_ID | | NUMBER(10) | Y |
| ACTIVE_FL | | VARCHAR2(1 CHAR) | Y |
| LAST_UPDATED_DT | | DATE | Y |
| LAST_UPDATED_BY | | VARCHAR2(20 CHAR) | Y |
| COMMENTS | | VARCHAR2(4000 CHAR) | Y |
| PRIORITY_CD | | NUMBER(10) | Y |
| ACTION_CD | | VARCHAR2(20 CHAR) | Y |

- **RULE_ID:** Unique identifier of the rule.
- **RULE_NM:** Name of the rule. This should be a unique name.
- **RULE_DESC:** Description of the rule.
- **SAMPLE_QNTITY_TYPE:** Define the quality type as PERCENTAGE or COUNT.
 - Enter PERCENTAGE if the system has to select a percentage of cases for QC from the candidate superset.
- Enter COUNT if the system has to select a specific count of cases for QC from the candidate superset.
- **SAMPLE_QNTITY:** Enter the sampling quality value in numerals. For example,
 - If SAMPLE_QNTITY = 10 and SAMPLE_QNTITY_TYPE = PERCENTAGE, then the system will take 10% of the candidate cases for QC.
 - If SAMPLE_QNTITY =10 and SAMPLE_QNTITY_TYPE = COUNT, then the system will select 10 candidate cases for QC.
- **DS_ID:** Unique identifier of the dataset that is associated with the rule. The dataset contains the sampling logic (SQL) for this rule. This field references the DS_ID column in KDD_QC_DATASET_MASTER and KDD_QC_DATASET_VALUES tables.
- **ACTIVE_FL:** This flag indicates whether the rule can be used during the QC batch.
 - If this is set to “Y”, then the system will run this rule during the QC batch.
 - If this is set to “N”, then the system will ignore this rule when the QC batch is executed.
- **LAST_UPDATED_DT:** Date when the record was last updated.
- **LAST_UPDATED_BY:** User name who last updated the record
- **COMMENTS:** Enter the comments
- **PRIORITY_CD:** Define the priority of the rule.
- **ACTION_CD:** This action code is used to identify the resulting status of a case that is selected for QC as a result of this sampling rule. This should be the same as the ACTION_CD column of the KDD_ACTION table.

2. Add the dataset entries in the KDD_QC_DATASET_MASTER table. This table is used to define the dataset associated with each rule.

Table 24: KDD_QC_DATASET_MASTER Table

| Column Name | Primary Key | Column Type | Nullable |
|-----------------|-------------|---------------------|----------|
| DS_ID | Y | NUMBER(10) | |
| DS_NM | | VARCHAR2(1000 CHAR) | Y |
| DS_DESC | | VARCHAR2(4000 CHAR) | Y |
| LAST_UPDATED_DT | | DATE | Y |
| LAST_UPDATED_BY | | VARCHAR2(20 CHAR) | Y |
| COMMENTS | | VARCHAR2(4000 CHAR) | Y |

- **DS_ID:** Unique identifier of the dataset that is associated with the rule. The dataset contains the sampling logic (SQL query) for the rule. This field references the DS_ID column in KDD_QC_RULE_MASTER and KDD_QC_DATASET_VALUES tables.
 - **DS_NM:** Name of the dataset. This should be a unique name.
 - **DS_DESC:** Description of dataset
 - **ACTIVE_FL:** This flag indicates whether or not this dataset can be used during the QC batch. If set to “Y”, the system will run this rule during the QC batch. If set to “N”, the system will ignore this rule when the QC batch is executed. Ideally, you should make sure that if the ACTIVE_FL on a rule is set to Yes, the ACTIVE_FL on the dataset associated with that rule should also be set to Yes.
 - **LAST_UPDATED_DT:** Date when this record was last updated.
 - **LAST_UPDATED_BY:** User name who last updated this record.
 - **COMMENTS:** Enter the comments
3. Define the dataset values in the KDD_QC_DATASET_VALUES table. This table is used to define the actual SQL logic for each dataset.

Table 25: KDD_QC_DATASET_VALUES table

| Column Name | Primary Key | Column Type | Nullable |
|---------------|-------------|---------------------|----------|
| DS_ID | | NUMBER(10) | |
| DS_VALUE_TYPE | | VARCHAR2(1000 CHAR) | Y |
| DS_VALUE | | CLOB | |

- **DS_ID:** Unique identifier of the dataset that is associated with the rule. The dataset contains the sampling logic (SQL query) for the rule. This field references the DS_ID column in KDD_QC_RULE_MASTER and KDD_QC_DATASET_MASTER tables.
- **DS_VALUE_TYPE:** Define the type of dataset value
- **DS_VALUE:** Define the value of the dataset.
 - If DS_VALUE_TYPE = USED TABLES, then this should be the PDM name of the table that will be used in the rule.

- If DS_VALUE_TYPE = “ANSIJOIN”, then this should be the JOIN relationship.
- If DS_VALUE_TYPE = “WHERECLAUSE”, then this should be the WHERE condition.
- If DS_VALUE_TYPE = “ORDERBY”

4. The entries will be updated in the KDD_QC_RULE_XCUTN_AUDIT table.

Table 26: KDD_QC_RULE_XCUTN_AUDIT table

| Column Name | Primary Key | Column Type | Nullable |
|--------------|-------------|---------------------|----------|
| RULE_ID | | NUMBER(10) | Y |
| RULE_QUERY | | CLOB | Y |
| EXECUTION_DT | | DATE | Y |
| EXECUTION_BY | | VARCHAR2(20 CHAR) | Y |
| BATCH_ID | | VARCHAR2(1000 CHAR) | Y |

- **RULE_ID**: Enter the Rule ID
- **RULE_QUERY**: Define the SQL query for the rule
- **EXECUTION_DT**: Date of batch execution
- **EXECUTION_BY**: User name who executed the batch
- **BATCH_ID**: ID of the batch

A seeded batch CASE_QC_WORKFLOW_UPDATE is used to trigger the QC process. This batch can be scheduled through the Batch Scheduler like all other batches. When this batch runs, ECM compares every case in the database with every QC sampling rule defined in the system to identify candidate cases for QC. Candidate cases form the superset of cases from which a random set of cases will be selected for QC. Each sampling rule will gather its own superset of candidate cases.

Based on the logic defined for each sampling rule, the system randomly will select a percentage (or number) of cases from the superset to QC.

When the Quality Controlled cases are identified, the system will use Case Allocation rules to determine the case owner and assignee.

NOTE Currently, the ECM system assigns the same user as the case owner and the assignee.

Here, the system also uses the action code defined on the sampling rule to call PMF and assign a resulting (QC) status to the case. These workflows need to be defined in PMF. For more information on PMF, see the [Configuring Processing Modelling Framework \(PMF\)](#) chapter. In out of the box workflows, the QC process is not configured. Also, clients can create new roles for the QC process, if required. Out of the box doesn't include any specific QC roles.

Audit History tab is also updated with Owner name, Assignee name, and Action (on the sampling rule) that moved the case into the QC process.

18.16 Event Purge

Sometimes, events are ingested multiple times or generated by poor data quality during the processing. In these instances, you can clear the ingested data for better correlations and investigations. This is applicable to both cases and pre-cases. When an event purge is performed for the case, the linked events and entities will be deleted. If an entity is linked to both valid and purged events, then the entity will not be removed.

There are two types of the purge:

- **Individual Event Purge:** Individual events that are identified with bad data. Provide `n_event_skey` generated in the consolidation layer and relevant comments to purge the event.
- **Batch Purge:** Enter the purge type as "BATCH" in the `v_purge_type` column and run `skey` in `n_run_skey` column of `FCC_PURGE_INPUT` table if you want to purge a complete batch. When a batch is purged, the events linked to that batch will be purged.

Below is the list of features:

- Supports purging individual and batch events.
 - Removing purged events and related entities from the case
 - Capturing the audit log of the purged events related to the case.
 - Purging case(in Extendible status) if all the events in the case are purged.
1. **Events Purged before promoting to the case:** If the event is part of an un-promoted correlation, then drop the event and associated entities from the correlation. The events which are purged will not take part in the future correlation process. If the events in correlation after purging are disconnected, then re-run correlation for these events.
 2. **Events Purged after promoting to Case:** If any event is part of the case, then drop the event and associated business entities from the case. If the associated business entities (for example, customer) of the purged event(s) are associated with other events in the case, then those will remain in the business tab. By default, only events that are part of the case in Extendible status can be purged. The events which are purged will not take part in the future correlation process.

18.16.1 Event Purging using Tables

Perform the following steps to purge events using table updates:

1. Configure the parameters in table `FCC_PURGE_INPUT`. In this table, data with the event `skey` column can be added. For this, follow the below steps:
2. Locate `EventPurge.cfg` (path: `<installed area>/ficdb/conf`). Modify the following details:
 - **Status:** Status of case
 - **Batchsize:** Defines the maximum size of events in a batch
 - **TestMode:** If the testmode is True, then data will not be purged but purging is done for testing purpose.
3. Look at the existing table `FCC_EVENTS`. In table `FCC_PURGE_INPUT`, the event `skey` should be the same as mentioned in table `FCC_EVENTS`.

| Column Name | Primary Key | Column Type | Nullable |
|----------------------|-------------|---------------------|----------|
| n_err_seq_id | | NUMBER | No |
| n_event_skey | | NUMBER(22) | |
| n_run_skey | | NUMBER(22) | |
| v_user_comments | | VARCHAR2(4000 CHAR) | |
| f_purge_success_flag | | CHAR(1 CHAR) | |
| d_requested_date | | DATE | |
| d_fic_mis_date | | DATE | |
| v_user_id | | VARCHAR2(50 CHAR) | |
| v_data_origin | | VARCHAR2(30 CHAR) | |
| d_prcsng_batch_date | | DATE | |
| v_purge_type | | VARCHAR2(20 CHAR) | |

- **n_err_seq_id**: Enter the sequence ID. This field accepts only numeric values. This is a mandatory field.
 - **n_event_skey**: Enter the skey of the event which you want to purge. This is a mandatory field if it is an individual event purge.
 - **n_run_skey**: Enter the run skey of the batch you want to purge. This is a mandatory field if it is a complete batch event purge.
 - **v_user_comments**: User comments if required
 - **f_purge_success_flag**: Defines the purge success flag. If the purge is failed, then this flag will be displayed as E. By default, it has to be set to Null or N. This flag turns to Y if the purge is successful. If purge fails (flag = E), then check and correct it, and update this entry as Null or N and again execute the purge.
 - **d_requested_date**: Date of individual event purge request
 - **d_fic_mis_date**: Date of BATCH. This is applicable only if n_run_skey is defined.
 - **v_user_id**: User ID who is performing the purge.
 - **v_data_origin**: Define the data region, like US, IND, and so on. This is applicable only for the batch purge. For example, a batch can have data for multiple data origins and if you want to delete data only for the India region, then define the region in this field.
 - **d_prcsng_batch_date**: Date on which the purge process request is completed.
 - **v_purge_type**: Define the type of purge. It can be a BATCH or EVENT.
4. Execute the following script:
- ```
EventPurge.sh
```

## 18.17 Case Purge Utility

Case Purge utility is meant for purging of cases, case-related entity tables, events inside the case and evented table data for those events. The input criteria for purging is Case IDs, Case Created Date Range, Case Last Updated Date Range, and Case Status.

To use case purge utility, perform the following steps:

### 1. Defining Input Criteria

The input criteria is defined in FCC\_PURGE\_CASE\_INPUT in Atomic Schema. The criteria can be given in the following manner:

- Particular Case IDs: If multiple, then give multiple rows
- Created Date From and To
- Last Updated Date From and To
- Created Date From and To and Last Updated From and To

The columns in FCC\_PURGE\_CASE\_INPUT where the criteria can be defined are the following:

| Criteria                      | Column Name                                    |
|-------------------------------|------------------------------------------------|
| Particular Case ID            | V_CASE_INTRL_ID                                |
| Created Date From and To      | D_CREATED_DT_FRM,<br>D_CREATED_DT_TO           |
| Last Updated Date From and To | D_LAST_UPDATED_DT_FRM,<br>D_LAST_UPDATED_DT_TO |

There are some columns in FCC\_PURGE\_CASE\_INPUT which are only informational:

- N\_CASE\_PUREG\_SEQ\_ID: Normal Numeric sequence for the filter/Criteria. Example:1 or 2
- F\_PURGE\_SUCCESS\_FLAG: This indicates the status of the Purge. It should be null or N for the filter or criteria to be picked up. After the purge is successfully completed it will automatically be updated to Y. If any error occurs during the purge it will be updated to E.
- D\_REQUESTED\_DATE: This can be filled as the date when the filter criteria was inserted. It just kept for future use for informational purpose
- V\_USER\_ID: This can be filled as the userid running the purge. It is just kept for future use for informational purposes.
- D\_PRCNSG\_BATCH\_DATE: This is updated by the case purge utility. It will be updated with the date the purge was ran.

The STATUS filter for the purge is captured in the CasePurgeConfig.cfg. The details are mentioned under the Configuration File section below.

### 2. Configuration File (CasePurgeConfig.cfg)

This file is available in the <<ficdb>>/conf folder. This contains the table's information which

is to be purged in the following format:

ActualTableName:PurgeTableName:deleteType:deleteKey

Following delete types are supported:

- **directDelete:** Any table where data can be deleted directly (basically which has either case\_intrl\_id or n\_event\_correlation\_skey or n\_event\_skey). For case\_intrl\_id since it appears with different names in different tables we have handled column names like case\_intrl\_id, v\_case\_id, parent\_case\_id . You can directly configure Direct Delete if on any of these columns mentioned for any new tables provided the new table and its purge table exists in the schema.
- **logicalDelete:** Any table which requires join to find the case\_intrl\_id. For example: KDD\_CASE\_ACTION\_NOTE. As of now we support logical deletion based on action\_seq\_id or note\_id. In logical Delete, clients can configure delete for any new tables which is based on action\_seq\_id or note\_id provided the new table and its purge table exists in the schema.
- **eventedEntityDelete:** Any evented table which requires join on basis of mis\_date,data\_origin,entityskey,entitytype. The config should be given in following format  
ActualTableName:PurgeTableName:eventedEntityDelete:misdatecolumnname,dataorigincolumnname,skeycolumnname,entitytype.
  - Example:FCC\_ACCT\_EVNT:FCC\_ACCT\_EVNT\_PE:eventedEntityDelete:mis\_date,data\_origin,account\_skey,ACCOUNT .
  - Evented Entity Delete can be configured directly by the customer for any new tables provided the new table and its purge table exists in the schema.

The configuration file also captures the STATUS filter to decide which case statuses should be picked. Statuses should be given in single quotes and multiple statuses should be comma-separated. For example: STATUS:'NW','INV'.

The configuration file has the following additional configurations:

- **TESTMODE:** If false, the temp tables created during purge will be dropped and the purge action will be committed. If true, the temp tables won't be dropped and the purge won't be committed. OOB value will be false. This flag is useful when analysis or debugging needs to be done by QA on which cases and events got picked for purge.
- **CheckPurgeTablesDM:** To check the Data Model of CM and CM\_PE tables to bring it in sync, we call "compare\_tables" proc for this. The list of tables compared is picked from the TEMP\_COMPARE\_TABLES table in the atomic schema. This supports only alter that is creation of the column if it's not present in the PE(Purge) table. It doesn't support modification to existing columns or drop of columns. Also, it doesn't support the creation of purge tables. OOB value will be true. If true it checks the data models. If false it doesn't check.
- **BatchSize:** This is used to do periodic batch executions based on the size. OOB value is 200.

### 3. Important Temp tables created during Purge

Below temp tables are created during purge. These tables won't be dropped when testmode is true and helps in analyzing which cases and events got picked up during purge

- i. FCC\_PURGE\_CASE\_INPUT\_TEMP  
This table contains the eligible caseids for purge. The eligibility for delete is denoted by the f\_delete\_case column as Y. It also shows the number of events inside the case and also the event correlation skye.
  - ii. FCC\_PURGE\_CASE\_EVNT\_INPUT\_TEMP  
This table contains the eligible eventids for purge. The eligibility for delete is denoted by f\_delete\_event column as Y.
  - iii. FCC\_PURGE\_CASE\_EVNT\_ENT\_TEMP  
This table contains the eligible evented entities for purge.
4. Execution
- After doing the configuration as mentioned above, trigger the <<ficdb>>/bin/CasePurge.sh. Logs are generated in <<ficdb>>/log/CasePurge/CasePurge.log. Insert and Delete Scripts for reference and informational purpose is generated with timestamp at <<ficdb>>/CasePurge

## 18.18 Event Expiry

ECM Engine accepts the events generated from various transaction monitoring applications (CS, KYC, and so on) and processes these for correlation. After scoring each event, the engine will promote these correlations which have a score more than a threshold score. But, some events in the back end are not used because the associated attributes of these events didn't yield enough score. So these events/correlations are not promoted to a case. A few events scores may also drop to '0' or below by increase in age. ECM engine identifies such events and removes them from the correlation process.

The engine will not only remove these events but also remove the evented data related to events. Following are the conditions by which events are identified for expiry:

- Events with age greater than the specified time period. For more information, see the Identifying Events by Age section.
- Events score  $\leq 0$ . For more information, see the Identifying Events by Score section.

### 18.18.1 Identifying Events by Age

The ageing rules are defined in IPE to identify the events by age for expiry. This IPE rule is configurable by

- Age
- Event Type
- Jurisdiction
- Domain

This rule runs post correlation batch and identifies the events that need to be archived, which is move to the expiry events table.

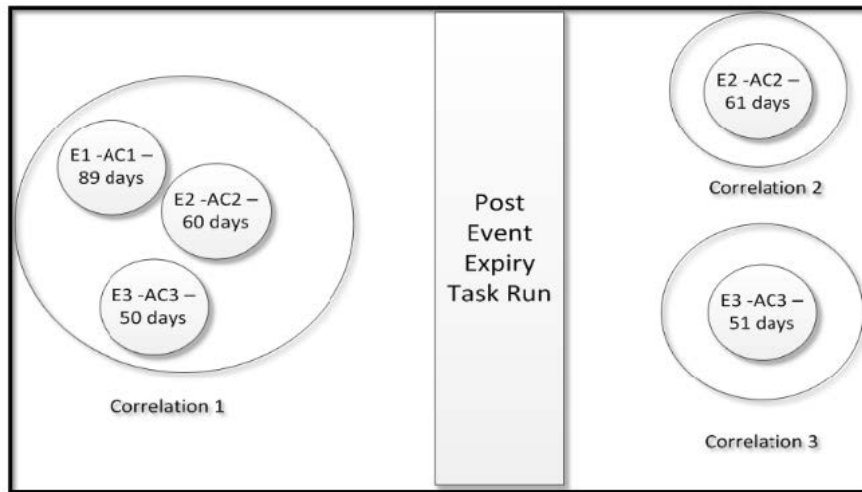
### 18.18.2 Identifying Events by Score

Events that need to be expired can be identified through event score.

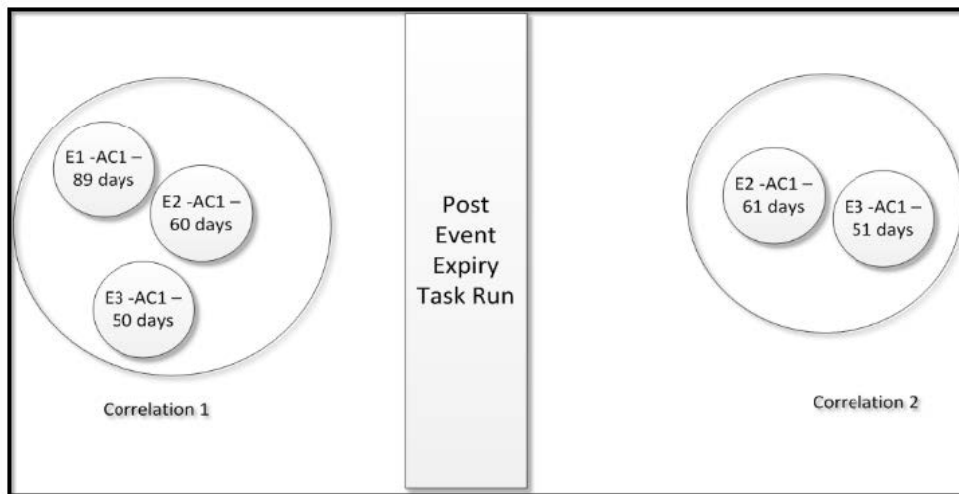
### 18.18.3 Examples

Following is the list of examples:

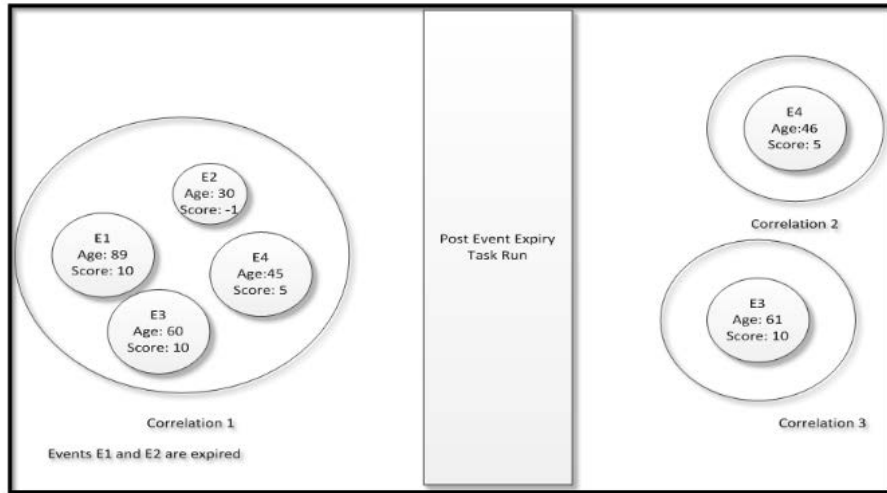
1. In the below example, Event E1, E2, and E3 are correlated in Correlation 1. When the task for Event expiry is executed, Event E1 will be out of the case correlation based on the defined IPE rule. Event E2 and Event E3 will be correlated to Correlation 2 and Correlation 3 respectively.



2. In the below example, Event E1, E2, and E3 are correlated in Correlation 1. When the task for Event expiry is executed, Event E2 will not be promoted to the case based on the defined IPE rule. Event E1 and Event E3 will be correlated together in Correlation 2.



3. In the below example, Event E1, E2, E3, and E4 are correlated in Correlation 1. When the task for Event expiry is executed, Event E1 and Event E2 will not be promoted to case based on defined scoring. Event E3 and Event E4 will be correlated to Correlation 2 and Correlation 3 respectively.



## 18.18.4 Configuring Event Expiry

This section explains how to configure the event expiry.

To configure the event expiry, follow these steps:

1. Create an IPE rule for event expiry. For more information, see the [IPE User Guide](#) on OHC.
2. Navigate to Enterprise Case Management Application.
3. Go to the Common task section. Select the **Run Rule Framework**.
4. Click **Run**. The Run Summary window is displayed with the available Processes.

Run

Code:  Version: 0

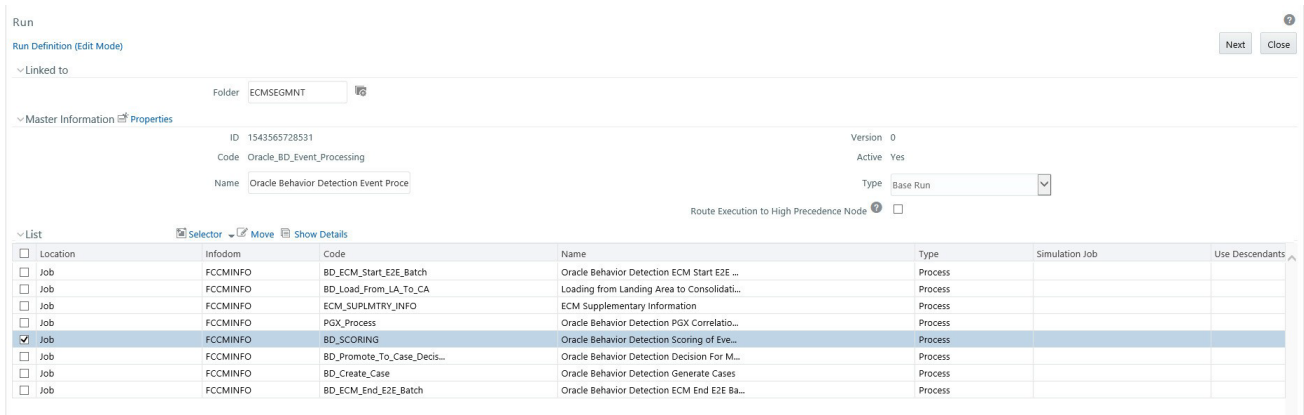
Name:  Active: Yes

Folder:  Type:

+ New View Edit Copy Remove Authorize Export File Run

| Code                                                    | Name                                                      | Type     | Folder    | Version | Active |
|---------------------------------------------------------|-----------------------------------------------------------|----------|-----------|---------|--------|
| <input type="checkbox"/> Oracle_BD_Event_Processing     | Oracle Behavior Detection Event Processing in ECM         | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Oracle_BD_Event_Processing_EXP | Oracle Behavior Detection Event Processing in ECM_EXP     | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Oracle_CS_Event_Processing     | Oracle CS Event Processing                                | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Oracle_FATCA_Event_Processing  | Oracle FATCA Event Processing                             | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Oracle_KYC_Event_Processing    | Oracle KYC Event Processing                               | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Oracle_TBAML_Event_Processing  | Trade Based Anti Money Laundering Event Processing in ECM | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Third_Party_Event_Processing   | Third Party Event Processing in ECM                       | Base Run | ECMSEGMNT | 0       | Yes    |
| <input type="checkbox"/> Third_Party_Event_Proc_CS      | Third Party Event Processing in ECM for CS                | Base Run | ECMSEGMNT | 0       | Yes    |

5. Go to the List section. Select **Oracle\_BD\_Event\_Processing**. The list of processes for OBD is displayed. Select the **BD\_Scoring** code and **Job** option from **Selector**.

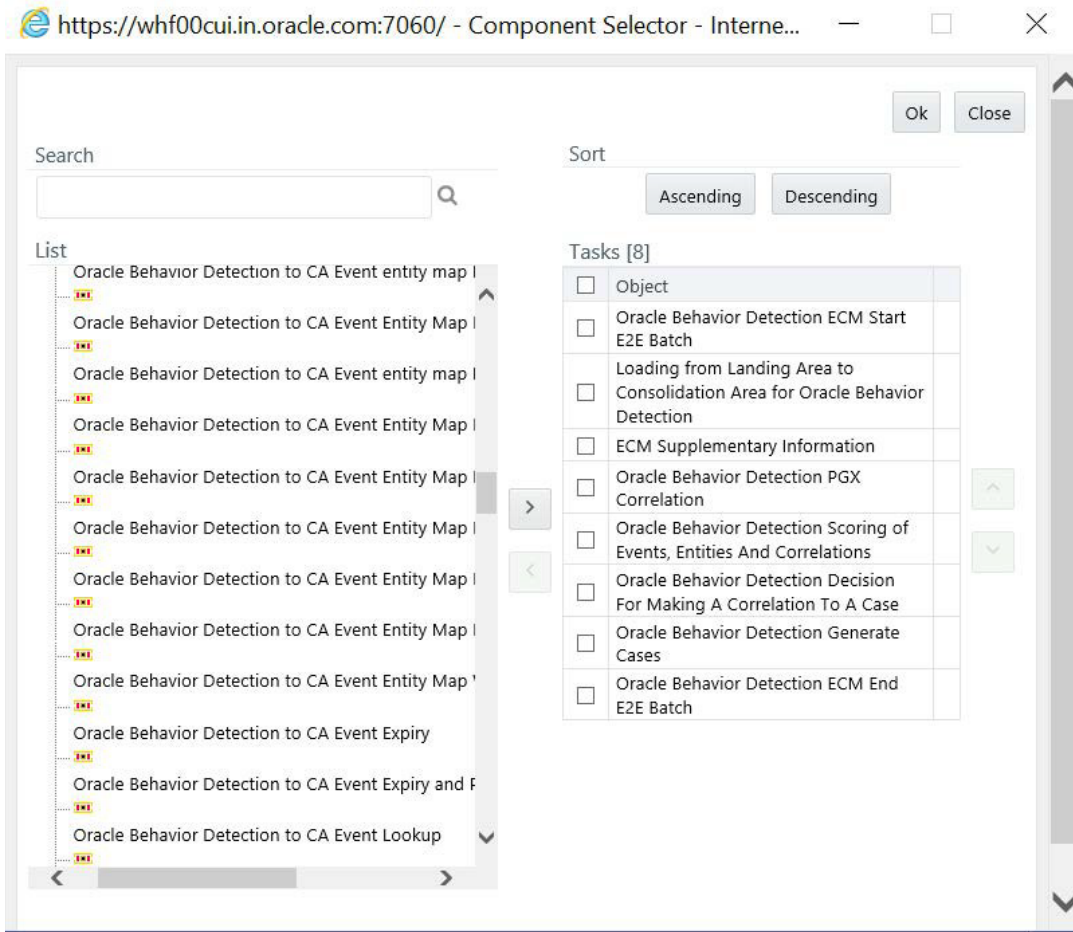


**Figure 5: Run Summary Window**

- The **Component Selector** window is displayed. Select **Oracle Behavior Detection to CAEvent Expiry and Prege** process from the list and move it to **Task** list.

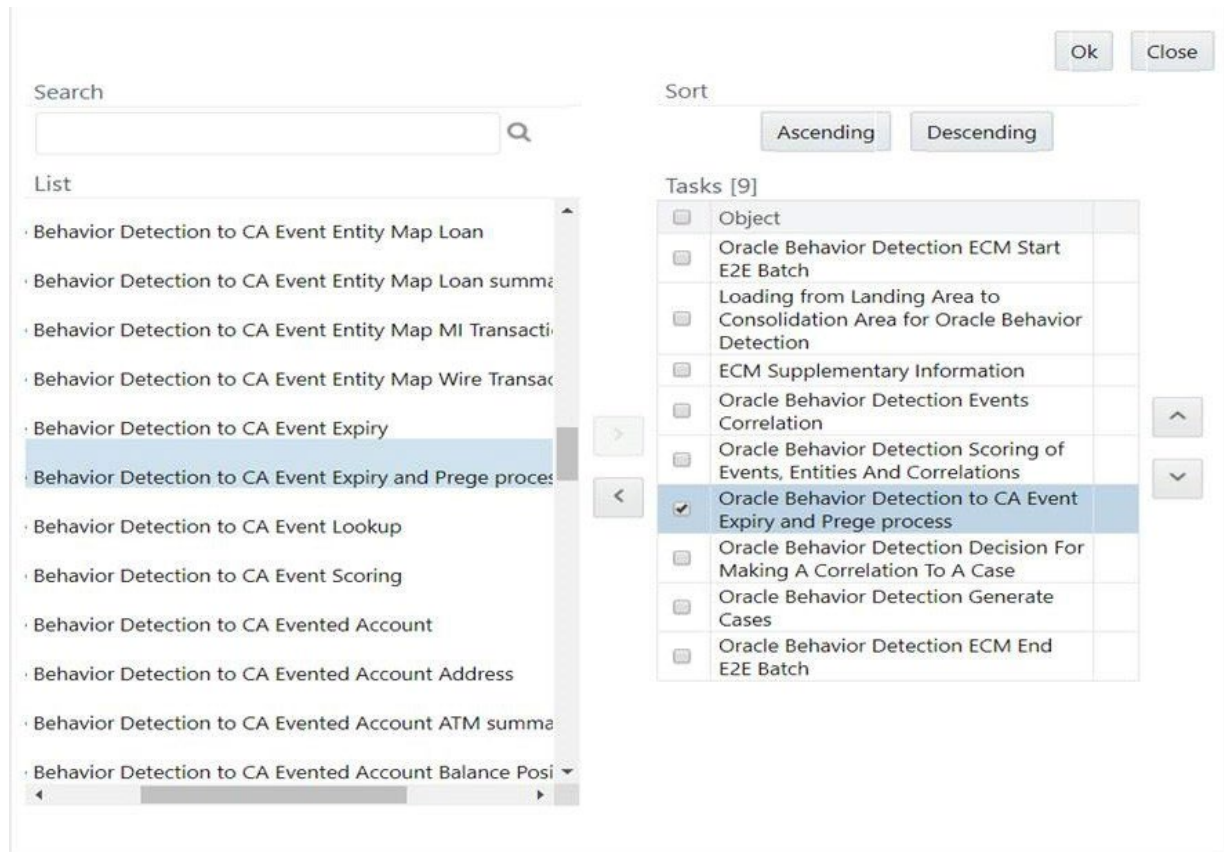
This process has the following two sub-processes:

- Oracle Behavior Detection to CA Event Expiry
- Oracle Behavior Detection to CA Orphaned Event Purge



7. Select the precedence of **Oracle Behavior Detection to CA Event Expiry and Prege** process after the **Oracle Behavior Detection Scoring of Events, Entities And Correlations**. Click **Ok**.





**Figure 6: Components**

8. Modify the configuration table FCC\_EVENT\_EXPIRY\_CONF.

**Table 27: FCC\_EVENT\_EXPIRY\_CONF Table**

| Column Name              | Primary Key | Column Type | Nullable |
|--------------------------|-------------|-------------|----------|
| N_CONF_ID                | Y           | NUMBER      |          |
| N_GROUP_ID               |             | NUMBER      |          |
| F_IS_ASSMNT_ENABLED      |             | VARCHAR2    |          |
| N_ASSESSMENT_ID          |             | NUMBER      |          |
| F_IS_EVENT_SCORE_ENABLED |             | VARCHAR2    |          |
| N_SCORE_THRESHOLD        |             | NUMBER      |          |

- **N\_CONF\_ID:** This is the sequence ID of the event. This should be a numeric value. For example, 1 and so on.
- **N\_GROUP\_ID:** Provide the ECM Processing Group ID
- **F\_IS\_ASSMNT\_ENABLED:** Set this flag to Y if you want to enable the event assessment. If this value is set to Y, then provide the assessment ID in the **N\_ASSESSMENT\_ID** field.

- **N\_ASSESSMENT\_ID:** Provide the assessment ID if the **F\_IS\_ASSMNT\_ENABLED** field is set to Y. This assessment ID should be a valid IPE rule number.
- **F\_IS\_EVENT\_SCORE\_ENABLED:** Set this flag to Y if you want to enable the event score. Enable this flag before defining the threshold score in the **N\_SCORE\_THRESHOLD** field.
- **N\_SCORE\_THRESHOLD:** Define the threshold score value.

## 18.19 Case Purge Utility

The Case Purge utility is meant for the purging of cases, case-related entity tables, events inside the case, and evented table data for those events. The input criteria for purging is Case IDs, Case Created Date Range, Case Last Updated Date Range, and Case Status.

To use case purge utility, perform the following steps:

### 1. Defining Input Criteria

The input criteria is defined in `FCC_PURGE_CASE_INPUT` table in the Atomic Schema. The criteria can be given in the following manner:

- Particular Case IDs: If multiple, then give multiple rows
- Created Date From and To
- Last Updated Date From and To
- Created Date From and To and Last Updated From and To

The following are the columns in `FCC_PURGE_CASE_INPUT` table where the criteria can be defined are .

| Criteria                      | Column Name                                    |
|-------------------------------|------------------------------------------------|
| Particular Case ID            | V_CASE_INTRL_ID                                |
| Created Date From and To      | D_CREATED_DT_FRM,<br>D_CREATED_DT_TO           |
| Last Updated Date From and To | D_LAST_UPDATED_DT_FRM,<br>D_LAST_UPDATED_DT_TO |

There are some columns in the `FCC_PURGE_CASE_INPUT` tables which are only informational:

- **N\_CASE\_PUREG\_SEQ\_ID:** Normal Numeric sequence for the filter or criteria. Example: 1 or 2
  - **F\_PURGE\_SUCCESS\_FLAG:** This indicates the status of the purge that must be null or N for the filter or criteria to be picked up. After the purge is successfully completed, the status is automatically updated to Y. If any error occurs during the purge, the status is updated to E.
  - **D\_REQUESTED\_DATE:** This can be filled as the date when the filter criteria was inserted. Reserved for future use for informational purpose.
  - **V\_USER\_ID:** This can be filled as the user ID running the purge. Reserved for future use for informational purposes.
  - **D\_PRCSNG\_BATCH\_DATE:** This is updated by the case purge utility with the date the purge was run.
2. The STATUS filter for the purge is captured in the `CasePurgeConfig.cfg` file. The details are mentioned in the Configuration File (see step 2).

---

### 3. Configuration File (CasePurgeConfig.cfg)

This file is available in the <<ficdb>>/conf directory and contains the table information that must be purged in the following format:

ActualTableName: PurgeTableName: deleteType:deleteKey

Following delete types are supported:

- **directDelete:** Any table where data can be deleted directly (basically which has either case\_intrl\_id or n\_event\_correlation\_skey or n\_event\_skey). As case\_intrl\_id appears with different names in different tables, the column names like case\_intrl\_id, v\_case\_id, parent\_case\_id are handled. You can configure Direct Delete on these columns mentioned for any new tables, provided the new table and its purge table exists in the schema.
- **logicalDelete:** Any table which requires join to find the case\_intrl\_id. For example: KDD\_CASE\_ACTION\_NOTE. Currently, clients can configure Logical Delete for any new tables which are based on action\_seq\_id or note\_id provided the new table and its purge table exists in the schema.
- **eventedEntityDelete:** Any evented table which requires join on basis of mis\_date, data\_origin, entityskey, and entitytype, the config should be given in the following format  
ActualTableName:PurgeTableName:eventedEntityDelete:misdatecolumnname,dataorigincolumnname,skeycolumnname,entitytype.
  - **Example:** FCC\_ACCT\_EVNT:FCC\_ACCT\_EVNT\_PE:  
eventedEntityDelete:mis\_date,data\_origin,account\_skey,ACCOUNT.
  - You can directly configure Evented Entity Delete for any new tables provided the new table and its purge table exists in the schema.

The configuration file also captures the STATUS filter to decide which case statuses should be picked. Statuses should be given in single quotes and multiple statuses should be comma-separated. For example, STATUS: 'NW', 'INV'.

The configuration file has the following additional configurations:

- **TESTMODE:** If false, the temp tables created during purge will be dropped and the purge action will be committed. If true, the temp tables are not dropped and the purge is committed. The default value will be false. This flag is useful when analysis or debugging must be done by QA on which cases and events got picked for purge.
- **CheckPurgeTablesDM:** To check the Data Model of CM and CM\_PE tables to bring in sync, compare\_tables proc is used for this. The list of tables compared is picked from the TEMP\_COMPARE\_TABLES table in the atomic schema. This supports only ALTER that is the creation of the column if it's not present in the PE (Purge) table. It does not support modification to existing columns or drop of columns. Also, it does not support the creation of purge tables. If ready-to-use value is true, it checks the data models. If false, it does not check.
- **BatchSize:** This is used to do periodic batch executions based on the size. The default value is 200.

---

### 4. Important Temp tables created during Purge

The following temp tables are created during the purge. These tables are not dropped when TESTMODE is true, and helps in analyzing which cases and events got picked up during purge.

a. FCC\_PURGE\_CASE\_INPUT\_TEMP

This table contains the eligible case IDs for the purge. The eligibility for delete is denoted by the f\_delete\_case column as Y. It also shows the number of events inside the case and also the event correlation key.

b. FCC\_PURGE\_CASE\_EVNT\_INPUT\_TEMP

This table contains the eligible Event IDs for the purge. The eligibility for delete is denoted by the f\_delete\_event column as Y.

c. FCC\_PURGE\_CASE\_EVNT\_ENT\_TEMP

This table contains the eligible evented entities for the purge.

## 5. Execution

After doing the configuration as mentioned above, trigger the

```
<<ficdb>>/bin/CasePurge.sh.
```

Logs are generated in <<ficdb>>/log/CasePurge/CasePurge.log. Insert and Delete

Scripts for reference and informational purpose is generated with timestamp at

```
<<ficdb>>/CasePurge
```

## 18.20 CSS Color Coding for FCC Columns

This section explains how to configure color coding in FCC ECM columns as follows:

1. Navigate to the FCC\_UI\_MODULE\_CONF table in the atomic schema.
2. Search for the grid where the desired CSS must be implemented.

For example,

```
select * from fcc_ui_module_conf where v_ui_module_id='CM_CS_CASELIST_GRID'
```

3. In the V\_MODULE\_PROP column, add the following configuration under the column properties of the desired column where CSS must be implemented:
  - Type is externalStyle
  - Level is cell
  - externalCssFunction specifies the JavaScript function name where the externalCSS class will be decided based on user-defined validation.

```
"formats": [{"type": "externalStyle", "level": "cell", "externalCssFunction": "<<javascriptfunctionname>>"}]
```

For example,

```
{
 "locale_code": "RENDERER.CS_PRIORITY",
 "headerAlign": "left",
 "visible": true,
 "draggable": true,
 "resizable": true,
 "dataType": "string",
 "width": "0.07",
 "readOnly": true,
```

```
 "sortable": true,
 "align": "left",
 "addToColMenu": true,
 "key": "priority",
 "formats": [{"type": "externalStyle", "level": "cell",
"externalCssFunction": "colorCodeHandlerForSearchCase"}]
 }
}
```

- The next step is to define the JavaScript function which will return the CSS class based on a user-defined validation. For example, the sample JavaScript function is displayed following that allows for color coding of Priority and Due Date column in Case List.



```
function colorCodeHandlerForSearchCase(grid) {

 if(grid.column.key=="priority")
 {
 if(grid.record.priority2==3)
 return "ecm-priority-high";
 else if(grid.record.priority2==2)
 return "ecm-priority-medium";
 else
 return "ecm-priority-low";
 }

 else if(grid.column.key=="due_dt")
 {
 if(grid.record.due_ui_flag=="NOTDUE")
 return "";
 else if(grid.record.due_ui_flag=="NEARDUE")
 return "ecm-duedate-neardue";
 else if(grid.record.due_ui_flag=="OVERDUE")
 return "ecm-duedate-overdue";
 }
}
```

- The JavaScript function mentioned in Step 4 can be defined in a custom JS file and that custom JavaScript file can be added in ECM as follows:
  - Copy the custom JavaScript file to the <<deployedarea>>/ojff/js/appCommon directory.
  - Go to the <<deployedarea>>/ojff/js/viewModels/aai-ecm.js. In aai-ecm.js directory, add entry for the JavaScript file in the defined block. For example, if your custom JavaScript file name is customValidator.js, then add as shown in the following image:

```

var lastSearchedData=null;
var searchedPreviousValue=[];
var selectedViewSeqID=null;
var searchTrack=false;

define([
 'knockout',
 'ojs/ojcore',
 'knockoutmapping',
 'EventDispatcher',
 'appCommon/cmSolution',
 'appCommon/cmCommon',
 'appCommon/cmLayout',
 'appCommon/customValidator'
],
function (
 ko,
 ojs,
 komapping,
 EventDispatcher
)
{
 function ECMPageViewModel(params) {
 var self = this;
 var routerConfigArray = getRouterConfigArray();
 self.form = routerConfigArray.lastLoadedModule;
 self.queryString = routerConfigArray.lastQueryString;
 }
 return ECMPageViewModel;
});

```

- The external css classname mentioned in Step 4 should be defined in the <<deployed\_path>>/ojff/css/appCss/OFS\_NGECM.css file.
- Clear browser cache and access the grid. The custom CSS will come into effect.

### Sample Screenshots

| Case List                |                       |              |              |            |          |               |            |   |
|--------------------------|-----------------------|--------------|--------------|------------|----------|---------------|------------|---|
| Take Action              |                       | Assign       | Add Evidence |            |          |               |            |   |
| <input type="checkbox"/> | Case ID               | Title        | Type         | Due Date   | Priority | Status        | Owner      | A |
| <input type="checkbox"/> | <a href="#">CA580</a> | Test1        | AML_DD       | 09/30/2020 | High     | Investigation | SUPERVISOR | S |
| <input type="checkbox"/> | <a href="#">CA601</a> | Test purpose | CS_EDD       | 10/02/2020 | Medium   | Investigation | SUPERVISOR | S |
| <input type="checkbox"/> | <a href="#">CA600</a> | FR_SS        | FR_EE        | 10/08/2020 | Low      | Investigation | SUPERVISOR | S |

#### NOTE

You can switch off the configuration if not required. To switch off the color-coding feature, remove the formats attribute from the column level configuration done in FCC\_UI\_MODULE\_CONF.

## 18.21 Enabling Quantifind

Quantifind is a third party company which provides risk information about entities. A contract with Quantifind is required to use this feature. Their product is integrated within FCCM Enterprise Case Management to allow the users to retrieve and view risk scores of a Customer. If clients are interested in implementing this feature, they have to work with Quantifind to enable this service. Once enabled, users with permission will be able to request and view Quantifind information by viewing a customer within a case. This process is enabled via PMF process (called from the ECM UI). The process sends relevant customer information to Quantifind's service, retrieves Customer's risk card and displays the risk card in ECM user interface. The following process outlines on how to configure the process and functions for a client's specific Quantifind implementation.

To enable Quantifind follow these steps:

1. Deploy the **createJSONService.war** in the environment.
2. Execute the following script in the **"Config Schema"**. Ensure that the URL and Header values are updated correctly as per the deployment. These values will be provided by Quantifind and are specific to each client's implementation. In the below sample script V\_METHODNAME holds the Quantifind URL and V\_HEADER\_PARAMS holds the Quantifind headers.

```
UPDATE AAI_WF_APPLICATION_API_B SET V_METHODNAME='https://api-
test.quantifind.com/api/entity/summary', V_HEADER_PARAMS='{"Content-
Type":"application/json","x-xf-app-name":"OracleIntegrationTest","x-xf-app-
token":"nie9gieb9eSh8ohThe0luhahC7see0Queey5ienoiNa7Ie3ial","User-
Agent":"PostmanRuntime/7.26.8"}' WHERE V_PROCESS_ID='RPA_CUSTOMER_GATEWAY' AND
V_APP_API_ID='1609860191729'
/
```

### NOTE

By executing the above script, these values will be updated for CUSTOMER\_QUANTIFIND\_API application rule in the **RPA Customer Gateway** Process Modeling Framework workflow. To Verify this in PMF, edit the CUSTOMER\_QUANTIFIND\_API application rule in the workflow found in the **RPA Customer Gateway** workflow. The values will be displayed in the 'Url' and 'Headers' parameters of the application rule.

3. To ensure the correct proxy is used when the Quantifind API is called, update the PMF proxy settings in the AAI\_WF\_GLOBAL\_SETTINGS table in the config schema. The following values have to be updated.

- PROXY\_SERVER\_IP: <<PROXY\_SERVER\_IP>>
- PROXY\_SERVER\_PORT: <<PROXY\_SERVER\_PORT>>

```
Insert into AAI_WF_GLOBAL_SETTINGS (V_PARAM_NAME,V_PARAM_VALUE) values
('PROXY_SERVER_IP',<<PROXY_SERVER_IP>>)
/
Insert into AAI_WF_GLOBAL_SETTINGS (V_PARAM_NAME,V_PARAM_VALUE) values
('PROXY_SERVER_PORT',<<PROXY_SERVER_PORT>>)
/
```

### NOTE

The above script is executed in config schema to configure the proxy and allow the application to access the Quantifind URL.

4. To enable the Quantifind icon on the Customer tab(ECM UI), run [QUANTIFIND FORM ENTRIES\\_OPT.sql](#) in the Config Schema.
5. To allow the users to view and/or request Quantifind risk cards, following functions have to be assigned. These functions have to be associated with the corresponding user roles as necessary.
  - **View Quantifind Information**  
This allows the users to view Quantifind risk cards received from Quantifind. If you want a user to view and not request for Quantifind information, assign this function to the user group only.
  - **Get Latest Quantifind Information**  
This allows user to request Quantifind risk cards.
6. Restart the servers and clear the browser Cache.

## 18.22 Configuring Quantifind Batch Processing

The Quantifind batch process submits customer entities to an ECM processing layer where they are then submitted in batch to Quantifind. ECM users do have the ability to request Quantifind risk cards in an ad-hoc manner through the ECM UI but the Quantifind batch process allows for bulk processing of customers which are extracted from the events created by the Behavior Detection Framework. This can provide great efficiency as cards are automatically available to the ECM users.

To configure the Quantifind batch process, follow these steps:

1. KDD\_INSTALL\_PARAM table has to be configured in the database using Parameter Name and Parameter ID with the below attributes mention in the table.
  - Enter the Parameter Name as: **ECMQuantifindService** and
  - Parameter Id as: **3010**

**NOTE** **START\_DATE** and **END\_DATE** attributes are not yet implemented. They are intended for the future use.

| COLUMN NAME | ATTRIBUTE CODE | ATTRIBUTE DESCRIPTION                                                                  | OOB VALUE              |
|-------------|----------------|----------------------------------------------------------------------------------------|------------------------|
| ATTR_1_CD   | PROXY_REQUIRED | This attribute specifies whether a proxy is required to call the Quantifind batch API. | Y                      |
| ATTR_2_CD   | QUANTIFIND_URL | This attribute specifies the Quantifind URL                                            | ##QUANTIFIND_API_URL## |



|           |                              |                                                                                                                                                                                                                                                                                                                                                        |                                  |
|-----------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| ATTR_3_CD | QUANTIFIND_API_HEADER_PARAMS | This attribute specifies the header params required by the Quantifind Batch API. It should be provided in format <b>For Example:</b><br><pre>{   "Content-Type": "text/plain",   "x-quantifind-app-name": "sandbox",   "x-quantifind-app-token": "ceidaelah0Ahdeteeyio6sooph0Eighuhuemie8faiZ6zah2d",   "User-Agent": "PostmanRuntime/7.26.10" }</pre> | ##QUANTIFIND_API_HEADER_PARAMS## |
|-----------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|

| COLUMN NAME | ATTRIBUTE CODE        | ATTRIBUTE DESCRIPTION                                                                                                                                           | OOB VALUE |
|-------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| ATTR_4_CD   | STATUS_CHECK_INTERVAL | This attribute specifies the interval at which Quantifind status check API should be called. The value mentioned is in seconds.                                 | 60        |
| ATTR_5_CD   | SUBMIT_BATCH_SIZE     | This attribute specifies the maximum number of requests which will be sent to Quantifind Submit API in one batch.                                               | 5000      |
| ATTR_6_CD   | RESULT_FETCH_SIZE     | This attribute specifies maximum number of results received in one batch.                                                                                       | 1000      |
| ATTR_7_CD   | START_DATE            | This attribute. Is not yet supported                                                                                                                            | NULL      |
| ATTR_8_CD   | END_DATE              | This attribute Is not yet supported                                                                                                                             | NULL      |
| ATTR_9_CD   | AGING_PERIOD          | This attribute specifies the total number of days, Quantifind card is valid. Till it is valid, New request for the same customer will not be sent to Quantifind | 30        |
| ATTR_10_CD  | ALLOWED_ENTITY_TYPES  | This attribute specifies the allowed entity types for obtaining Quantifind information. Only customer is supported.                                             | CUSTOMER  |

2. In the table FCC\_EXTRNL\_RQST\_EVNT\_FLTR configure business domain and Jurisdiction, based on this configuration customer entities will be picked up by Quantifind batch for processing. Currently

entity type can only be CUSTOMER. A sample entry for the filter table is shown below.

| V_FILTER        | V_COLUMN_NAME                      | V_FILTER_VALUE                                                  |
|-----------------|------------------------------------|-----------------------------------------------------------------|
| JURISDICTION    | FCC_EVENTS.V_JURISDICTION_CD       | 'AMEA', 'EMEA'                                                  |
| BUSINESS_DOMAIN | FCC_EVENTS.V_BUSINESS_DOMAIN_CD    | 'a','b','c','d','ab','ac','ad','bc','bd',<br>'abc','bcd','abcd' |
| ENTITY_TYPE     | FCC_EVENT_ENTITY_MAP.V_ENTITY_TYPE | 'CUSTOMER'                                                      |

- To ensure the correct proxy is used when the Quantifind API is called, update the PMF proxy settings in the AAI\_WF\_GLOBAL\_SETTINGS table in the Config Schema. The following values have to be updated.

- PROXY\_SERVER\_IP: <<PROXY\_SERVER\_IP>>
- PROXY\_SERVER\_PORT: <<PROXY\_SERVER\_PORT>>

```
Insert into AAI_WF_GLOBAL_SETTINGS (V_PARAM_NAME,V_PARAM_VALUE) values
('PROXY_SERVER_IP',<<PROXY_SERVER_IP>>)
/
Insert into AAI_WF_GLOBAL_SETTINGS (V_PARAM_NAME,V_PARAM_VALUE) values
('PROXY_SERVER_PORT',<<PROXY_SERVER_PORT>>)
```

- Run [QUANTIFIND FORM ENTRIES OPT.sql](#) in the Config Schema.
- To allow an ECM users to view and/or request Quantifind risk cards from the Customer tab within the ECM application, following functions have to be assigned. These functions have to be associated with the corresponding user roles as necessary.
  - View Quantifind Information  
This allows the users to view Quantifind risk cards received from Quantifind.
  - Get Latest Quantifind Information  
This allows user to request a Quantifind risk card for the selected customer by automatically calling the Quantifind API.
- Restart the servers and clear the browser cache.

Once the configuration is complete, follow these steps to run the Quantifind batch.

- Login to the application with **Administrator** credentials.
- Add the connector (**Oracle Behavior Detection to CA External Request HS**) before Entity Surrogate Key Generation for BD in ECM batch.
- Execute the ECM batch. The **fcc\_extrnl\_request\_hs** table will be populated with **BATCH\_RUN\_ID** and **N\_RUN\_SKEY**.
- Navigate to **Run** screen in the **Rule Run Framework**.

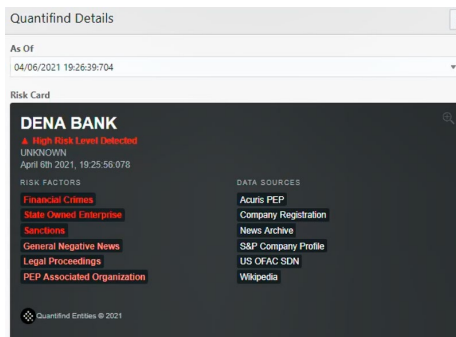
5. Select the **Additional\_Entity\_Information** and click **Fire Run**.

**NOTE** The ECM batch has to be completed before running Quantifind batch.

6. In the pop up window, enter the **MIS Date** and click **OK** to start the Quantifind batch.
7. The running batch can be monitored via Batch Monitor from admin UI. Once the batch is completed, the details are stored in the below tables.
  1. **FCC\_EXTERNAL\_REQUEST\_AUDIT**
  2. **FCC\_EXTERNAL\_RESULT**

**NOTE** Error with data during the batch process are only found in the error logs and will not be reprocessed by the batch (unless that customer shows up again the next day with the data corrected). The user can use the ad-hoc process if the risk card is missing

8. Login to the application with **Supervisor** credentials.
9. Search the required **Case (CA1006)**.
10. Click the **Customer Tab** to view the list of customer details.
11. Click the required Quantifind Card **Details** to view the **Quantifind Details** with the current score and the request time.



## 19 List of Processes and Tasks

This appendix describes the list of Processes and Tasks used in various application batches.

- OBD Application Process
- OCS Application Process
- OFATCA Application Process
- OKYC Application Process
- OTBAML Application Process
- OSTDO Application Process
- Third-party Application Process

### 19.1 OBD Application Process

- Start Batch
- Load Data from BD to ECM
- Correlation
- Scoring
- Promote to Case
- Create Case
- End Batch

#### 19.1.1 Start Batch

To start a batch, use `BD_ECM_Start_E2E_Batch`.

#### 19.1.2 Load Data from BD to ECM

`BD_Load_From_LA_To_CA` process is used for load data from the Landing area to the Consolidation area for OBD. This has the following four sub-processes:

- Loading BD Events
- Entity Surrogate Key Generation for BD
- Oracle Behavior Detection Evented Data Load
- Oracle Behavior Detection Business Data Load

Below is the list of BD sub-process codes. These sub-processes can be used by OCS and OKYC applications along with their application-specific processes.

Here, Level 1 subprocess code execution is a prerequisite for Level 2 subprocess execution. Similarly, Level 2 sub-process code execution is a prerequisite for Level 3 sub-process execution and so on. Subprocess within a level can be executed in any order or it can be executed in parallel.

**BD\_ENTITY\_SUP\_INFO** sub-process code has to be executed after the business data population (see the **Business Metadata Movement**).

### 19.1.3 Correlation

Correlation is used to perform correlation on loaded BD events. This has the following two tasks:

- PGX\_CORRELATION
- BD\_CORRELATION

### 19.1.4 Scoring

BD\_SCORING is used to perform the scoring of OBD events. This has the following four sub-processes:

- Oracle Behavior Detection Event Scoring
- Oracle Behavior Detection Entity Scoring
- Oracle Behavior Detection Correlation Scoring
- Oracle Behavior Detection Pre-Case Scoring

### 19.1.5 Promote to Case

BD\_Promote\_To\_Case\_Decision is used to decide if an OBD correlation can be promoted to a case. This is based on the defined threshold limit. This has the following task. The task type of this is the Computation Rule.

- Pre Case Promotion Rule

### 19.1.6 Create Case

BD\_Create\_Case process is used for case creation if an OBD event is promoted to case.

Below is the list of T2T tasks for BD application:

- f\_generatecaseid
- f\_insertcases
- t2t\_KDD\_CASE\_ACCOUNTS
- t2t\_KDD\_CASE\_CUSTOMERS
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS
- t2t\_KDD\_CASE\_EMPLOYEES
- t2t\_KDD\_CASE\_ACCOUNT\_ADDRESS
- t2t\_KDD\_CASE\_ACCOUNT\_MANAGED
- t2t\_KDD\_CASE\_ACCOUNT\_RSTRNS
- t2t\_KDD\_CASE\_ACCT\_BAL\_POSN\_SMRY
- t2t\_KDD\_CASE\_ACCT\_EMAIL\_ADDR
- t2t\_KDD\_CASE\_ACCT\_PEER\_GRP
- t2t\_KDD\_CASE\_ACCT\_PHON
- t2t\_KDD\_CASE\_ACCT\_SMRY\_MNTH
- t2t\_KDD\_CASE\_ACCT\_SUPPL\_ATTR
- t2t\_KDD\_CASE\_ACT\_PEER\_TRXN\_SMRY

- t2t\_KDD\_CASE\_ACCT\_NTCPTRY\_PRFL
- t2t\_FCC\_CASE\_ACCT\_LIST\_MBRSP
- t2t\_KDD\_CASE\_CLIENT\_BANK
- t2t\_KDD\_CASE\_CLIENT\_BANK\_SMRY\_MNTH
- t2t\_KDD\_CASE\_CUST\_ADDR
- t2t\_KDD\_CASE\_CUST\_EMAIL\_ADDRS
- t2t\_KDD\_CASE\_CUST\_LIST\_MEMBERSHIP
- t2t\_KDD\_CASE\_CUST\_PHONE
- t2t\_KDD\_CASE\_CUST\_SUPPL\_ATTR
- t2t\_KDD\_CASE\_CUST\_SMRY\_MNTH
- t2t\_KDD\_CASE\_CUST\_CUST
- t2t\_KDD\_CASE\_EMP\_ACCT
- t2t\_KDD\_CASE\_EMP\_ADDR
- t2t\_KDD\_CASE\_EMP\_EMAIL\_ADDR
- t2t\_KDD\_CASE\_EMP\_PHONE
- t2t\_KDD\_CASE\_INSTL\_ACCT\_SMRY\_MNTH
- t2t\_KDD\_CASE\_INSTN\_MASTER
- t2t\_KDD\_CASE\_INSURANCE\_POLICY
- t2t\_KDD\_CASE\_INSURANCE\_PRODUCT
- t2t\_KDD\_CASE\_NTWK\_USER\_ACCT\_MAP
- t2t\_KDD\_CASE\_ONLINE\_ACCT
- t2t\_KDD\_CASE\_ONLINE\_ACCT\_ACCT
- t2t\_KDD\_CASE\_PEER\_GRP
- t2t\_KDD\_CASE\_CB\_LIST\_MEMBERSHIP
- t2t\_KDD\_CASE\_CB\_PEER\_TXN\_SMRY\_MNTH
- t2t\_KDD\_CASE\_CLIENT\_BANK\_PEER\_GRP
- t2t\_KDD\_CASE\_EXTERNAL\_ENTITY
- t2t\_KDD\_CASE\_EXTERNAL\_ENTITY\_MEMBERSHIP
- t2t\_KDD\_CASE\_HH\_ACCT\_BAL\_SMRY
- t2t\_KDD\_CASE\_HH\_SMRY\_MNTH
- t2t\_KDD\_CASE\_INSURANCE\_PLCY\_CUST
- t2t\_KDD\_CASE\_NVSMT\_MGR\_SMRY\_MNTH
- t2t\_KDD\_CASE\_NVSMT\_MGR
- t2t\_KDD\_CASE\_ACCT\_ID\_INSTN\_ID\_MAP
- t2t\_KDD\_CASE\_ACCT\_GRP
- t2t\_KDD\_CASE\_WIRE\_TRXN
- t2t\_KDD\_CASE\_CASH\_TRXN

- t2t\_KDD\_CASE\_DERIVED\_ADDRESS\_CASH\_TRXN
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS\_MI\_TRXN
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS\_WIRE\_TRXN
- t2t\_KDD\_CASE\_BACK\_OFFICE\_TRXN
- t2t\_KDD\_CASE\_CUST\_IMP\_LICENSE\_GOODS
- t2t\_KDD\_CASE\_CUST\_IMP\_LICENSE
- t2t\_KDD\_CASE\_DOC\_COLL\_CNTRCT
- t2t\_KDD\_CASE\_DOC\_COLL\_CNTRCT\_EVENT
- t2t\_KDD\_CASE\_DOC\_COLL\_DISCRP\_DTL
- t2t\_KDD\_CASE\_DOC\_COLL\_INVOICE
- t2t\_KDD\_CASE\_DOC\_COLL\_MULTNR\_DTL
- t2t\_KDD\_CASE\_DOC\_COLL\_SHPMT\_DTL
- t2t\_KDD\_CASE\_EXTERNAL\_INSURANCE\_PLCY
- t2t\_KDD\_CASE\_EXTERNAL\_ORG
- t2t\_KDD\_CASE\_TRADE\_FIN\_SWIFT\_MSG
- t2t\_KDD\_CASE\_TRADE\_FIN\_PARTY
- t2t\_KDD\_CASE\_TRADE\_FIN\_GOOD\_SRVC
- t2t\_KDD\_CASE\_TRADE\_FIN\_DRAFT
- t2t\_KDD\_CASE\_TRADE\_FIN\_DOC
- t2t\_KDD\_CASE\_TRADE\_FIN\_CNTRCT
- t2t\_KDD\_CASE\_TRADE\_FIN\_BRKRGE\_DIST
- t2t\_KDD\_CASE\_TRADE\_FIN\_BRKRGE
- t2t\_KDD\_CASE\_TRADE\_FIN\_ACCT
- t2t\_KDD\_CASE\_TRADE
- t2t\_KDD\_CASE\_ORDER
- t2t\_KDD\_CASE\_MI\_TRXN
- t2t\_KDD\_CASE\_LOAN\_ACCOUNT
- t2t\_KDD\_CASE\_LOAN
- t2t\_KDD\_CASE\_LOAN\_SMRY\_MONTH
- t2t\_KDD\_CASE\_INSTRUCTION
- CASE\_COMPLETION\_FLAG
- CASE\_ASSIGNMENT

Promote\_To\_Case T2Ts (see the [Table 32](#))

Here, Level 1, Level 2, Level 2, Level 2, Level 3, Level 4, Level 5, Level 6, and Level 7 should run in sequence. Sub-processes within any level (for example, level3) can be executed in any order in parallel (depending upon the hardware specification) or sequentially.

**Table 29: Level Details**

| Level   | Process Name                                  |
|---------|-----------------------------------------------|
| Level 1 | Oracle Behavior Detection to CA Event Lookup  |
| Level 2 | Oracle Behavior Detection to CA Event         |
| Level 2 | Oracle Behavior Detection to CA Event Binding |
| Level 2 | Oracle Behavior Detection to CA Event Details |
| Level 3 | CA Lookup                                     |
| Level 4 | CA Event Entity Map                           |
| Level 5 | CA Business                                   |
| Level 6 | Additional Information                        |
| Level 7 | CA Evented                                    |



**Table 30: Process Details**

| Level 1          | Level 2                                           | Level 3                                                                                                                                                                                                                                                                                                          | Level 4                                                                                                                                                                                                                                                                                                                                | Level 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Level 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BD_EVENT_-LOOKUP | BD_EVENT<br>BD_EVENT_BINDING<br>BD_EVENT_DE-TAILS | BD_AC-COUNT_GROUP_-LOOKUP<br>BD_ACCOUNT_-LOOKUP<br>BD_CUSTOMER_-LOOKUP<br>BD_DERIVED_AD-DRESS_LOOKUP<br>BD_EMPLOYEE_-LOOKUP<br>BD_EVENT_-LOOKUP<br>BD_EXTERNAL_EN-TITY_LOOKUP<br>BD_INSTITUTION_-LOOKUP<br>BD_INVEST-MENT_ADVISOR_-LOOKUP<br>BD_LOAN_LOOKUP<br>BD_MARKET_CEN-TER_LOOKUP<br>BD_PEER_GROUP_-LOOKUP | BD_EVENT_ENTI-TY_MAP_AC<br>BD_EVENT_ENTI-TY_MAP_AG<br>BD_EVENT_ENTI-TY_MAP_BOT<br>BD_EVENT_ENTI-TY_MAP_CT<br>BD_EVENT_ENTI-TY_MAP_CUST<br>BD_EVENT_ENTI-TY_MAP_DA<br>BD_EVENT_ENTI-TY_MAP_EE<br>BD_EVENT_ENTI-TY_MAP_EMPL<br>BD_EVENT_ENTI-TY_MAP_IA<br>BD_EVENT_ENTI-TY_MAP_IM<br>BD_EVENT_ENTI-TY_MAP_MIT<br>BD_EVENT_ENTI-TY_MAP_WT | Business Metadata Movement<br>BD_ACCT<br>BD_ACCT_ADDR<br>BD_ACCT_BAL_POS N_SMRY<br>BD_ACCT_E-MAIL_ADDR<br>BD_ACCT_GRP<br>BD_ACCT_ID_INST-N_ID_MAP<br>BD_ACCT_LIST_ME MBERSHIP<br>BD_ACCT_PEER_GRP<br>BD_ACCT_PEER_TR XN_SMRY_MNTH<br>BD_ACCT_PHON<br>BD_ACCT_RSTRN<br>BD_ACCT_SM-RY_MNTH<br>BD_BACK_OF-FICE_TRXN<br>BD_CASH_TRXN<br>BD_CB_LIST_MEM-BERSHIP<br>BD_CB_PR_TRX-N_SMRY_MNTH<br>BD_CLIENT_BANK<br>BD_CLI-ENT_BANK_PEER_GRP<br>BD_CLI-ENT_BANK_SM-RY_MNTH<br>BD_CUST<br>BD_CUST_ACCT<br>BD_CUST_ADDR<br>BD_CUST_E-MAIL_ADDR<br>BD_CUST_IMP_LI-CENSE<br>BD_CUST_IMP_LI-CENSE_GOOD<br>BD_-CUST_LIST_MEM-BERSHIP<br>BD_CUST_PHON<br>BD_CUST_SM-RY_MNTH | Evented Data Move-ment<br>BD_ACCT_EVENT<br>BD_ACCT_ACCT_AD DR_EVNT<br>BD_ACCT_BAL_POS N_SMRY_EVNT<br>BD_ACCT_GRP_EVN T<br>BD_ACCT_PEER_GRP_EVNT<br>BD_ACCT_PR_TX-N_SMRY_MN_EVNT<br>BD_ACCT_R-STRN_EVNT<br>BD_ACCT_SM-RY_MNTH_EVNT<br>BD_BACK_OF-FICE_TRXN_EVNT<br>BD_CASH_TRX-N_EVNT<br>BD_CB_PR_TX-N_SM_MNT_EVNT<br>BD_CLI-ENT_BANK_EVNT<br>BD_-CLINT_BNK_PR_GRP_EVNT<br>BD_CL-NT_BNK_SM_MNT_EVNT<br>BD_CUST_EVNT<br>BD_CUST_IMP_LI-CENSE_EVNT<br>BD_-CUST_IMP_LIC_-GOD_EVNT<br>BD_CUST_SM-RY_MNTH_EVNT<br>BD_CUST_SUP-PL_ATR_EVNT<br>BD_DERIVED_AD-DRESS_EVNT<br>BD_EMP_ACCT_EV NT<br>BD_EMP_AD-DR_EVNT<br>BD_EMP_E-MAIL_ADDR_EVNT<br>BD_EMP_EVNT |

**Table 30: Process Details**

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Level 6                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------|---------|---------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |         |         |         | BD_CUST_SUPPLEMENTAL_ATR<br>BD_DERIVED_ADDRESS<br>BD_EMP<br>BD_EMP_ACCT<br>BD_EMP_ADDR<br>BD_EMP_EMAIL_ADDR<br>BD_EMP_PHON<br>BD_EVENT_SCORE<br>BD_EXTERNAL_ENTITY<br>BD_EXTERNAL_ENTITY_ADDR<br>BD_EXTRNL_ENTITY_MBRSH<br>BD_FCC_EXTERNAL_ENTITY_LINK<br>BD_HH_BAL_POSN_SMRY<br>BD_INSTN_MASTER<br>BD_INSURANCE_POLICY<br>BD_INSURANCE_POLICY_CUST<br>BD_INSURANCE_PRODUCT<br>BD_LOAN<br>BD_LOAN_SMRY_MNTH<br>BD_MANGD_ACCT<br>BD_MI_TRXN<br>BD_NTCPTRY_PRFL<br>BD_NVSMT_MGR<br>BD_NVSMT_MGR_SMRY_MNTH<br>BD_PEER_GRP<br>BD_WIRE_TRXN | BD_EMP_PHON_EVNT<br>BD_HH_BAL_POSN_SMRY_EVNT<br>BD_INSTL_ACCT_SMRY_MNTH_EVNT<br>BD_INSTN_MAS-TER_EVNT<br>BD_INSURANCE_POLICY_EVNT<br>BD_INSURANCE_PRODUCT_EVNT<br>BD_INS_PLCY_CUST_EVNT<br>BD_LOAN_EVNT<br>BD_LOAN_SMRY_MNTH_EVNT<br>BD_MANGD_ACCT_EVNT<br>BD_MI_TRXN_EVNT<br>BD_NTCPTRY_PRFL_EVNT<br>BD_NVSMT_MGR_EVNT<br>BD_NVSMT_MGR_SMRY_MNTH_EVNT<br>BD_PEER_GRP_EVNT<br>BD_WIRE_TRXN_EVNT<br>BD_XTRNL_ENTITY_ADR_EVNT |
|         |         |         |         | BD_ENTITY_SUP_INFO<br>This sub-process code has to be executed after the business data population (see the Business Metadata Movement).                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Table 31: Sub-processes**

| CA Area  | Process Name                          | Process Parameter |
|----------|---------------------------------------|-------------------|
| CA Event | Oracle Behavior Detection to CA Event | BD_EVENT          |

**Table 31: Sub-processes**

| CA Event  | Oracle Behavior Detection to CA Event Binding                    | BD_EVENT_BINDING            |
|-----------|------------------------------------------------------------------|-----------------------------|
| CA Event  | Oracle Behavior Detection to CA Event Details                    | BD_EVENT_DETAILS            |
| CA Event  | Oracle Behavior Detection to CA Trade Lookup                     | BD_TRADE_LOOKUP             |
| CA Event  | Oracle Behavior Detection to CA Order Lookup                     | BD_ORDER_LOOKUP             |
| CA Event  | Oracle Behavior Detection to CA Security Lookup                  | BD_SECURITY_LOOKUP          |
| CA Event  | Oracle Behavior Detection to CA Event Entity Map Trade           | BD_EVENT_ENTITY_MAP_TRADE   |
| CA Event  | Oracle Behavior Detection to CA Event Entity Map Order           | BD_EVENT_ENTITY_MAP_ORDER   |
| CA Event  | Oracle Behavior Detection to CA Event Entity Map Security        | BD_EVENT_ENTITY_MAP_SCRTY   |
| CA Event  | Oracle Behavior Detection to CA Trade                            | BD_TRADE                    |
| CA Event  | Oracle Behavior Detection to CA Evented Trade                    | BD_TRADE_EVNT               |
| CA Event  | Oracle Behavior Detection to CA Order                            | BD_ORDR                     |
| CA Event  | Oracle Behavior Detection to CA Evented Order                    | BD_ORDR_EVNT                |
| CA Event  | Oracle Behavior Detection to CA Security                         | BD_SCRTY                    |
| CA Event  | Oracle Behavior Detection to CA Evented Security                 | BD_SCRTY_EVNT               |
| CA Area   | Process Name                                                     | Data Movement Code          |
| CA Lookup | Oracle Behavior Detection to CA Account ATM Daily Lookup         | BD_ACCOUNTATMDAILY_LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Account ATM Daily Lookup         | BD_CustomerBalance_LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Account Balance Summary Lookup   | BD_ACCT_SMRY_MNTH_LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Account Client Bank Lookup       | BD_ACCT_CLIENTBANK_LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Account Daily Lookup             | BD_ACCOUNTDLY_LOOKUP        |
| CA Lookup | Oracle Behavior Detection to CA Account Group Lookup             | BD_ACCOUNT_GROUP_LOOKUP     |
| CA Lookup | Oracle Behavior Detection to CA Account Lookup                   | BD_ACCOUNT_LOOKUP           |
| CA Lookup | Oracle Behavior Detection to CA Account PeerGroup Lookup         | BD_ACCOUNT_PEERGROUP_LOOKUP |
| CA Lookup | Oracle Behavior Detection to CA Account Trade Daily Lookup       | BD_ACCOUNTTRADEDLY_LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Account Transaction Daily Lookup | BD_ACCOUNTTRXNDLY_LOOKUP    |

**Table 31: Sub-processes**

|           |                                                                             |                                |
|-----------|-----------------------------------------------------------------------------|--------------------------------|
| CA Lookup | Oracle Behavior Detection to CA Anticipatory Profile Lookup                 | BD_ANTICIPATORYPRFL_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Back Office Transaction Lookup              | BD_BACK_OFFICE_TRXN_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Cash Transaction Lookup                     | BD_CASH_TRXN_LOOKUP            |
| CA Lookup | Oracle Behavior Detection to CA Client Bank Peer Transaction Summary Lookup | BD_CBPEERTRXNSMRY_-LOOKUP      |
| CA Lookup | Oracle Behavior Detection to CA Client Bank PeerGroup Lookup                | BD_CLIENTBANK_PEERGRP_-LOOKUP  |
| CA Lookup | Oracle Behavior Detection to CA Client Bank Summary Lookup                  | BD_CLINETBANKBSMRY_-LOOKUP     |
| CA Lookup | Oracle Behavior Detection to CA ClientBank Transaction Summary Lookup       | BD_ACCT_PR_TRXN_SM-R_MN_LOOKUP |
| CA Lookup | Oracle Behavior Detection to CA Customer Account Lookup                     | BD_CUSTOMER_ACCOUNT_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Customer Customer Lookup                    | BD_CUSTOMER_CUSTOM-ER_LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Customer Daily Lookup                       | BD_CUSTOMERDLY_LOOKUP          |
| CA Lookup | Oracle Behavior Detection to CA Customer MarketServed Lookup                | BD_CUSTOMER_MRKTSRV_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Customer Product Lookup                     | BD_CUSTOMER_PRODUCT_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Customer Summary Lookup                     | BD_CUSTOMERSMRY_-LOOKUP        |
| CA Lookup | Oracle Behavior Detection to CA Customers Lookup                            | BD_CUSTOMER_LOOKUP             |
| CA Lookup | Oracle Behavior Detection to CA Derived Address Lookup                      | BD_DERIVED_ADDRESS_-LOOKUP     |
| CA Lookup | Oracle Behavior Detection to CA Employee Account Lookup                     | BD_EMPLOYEE_ACCOUNT_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Employee Lookup                             | BD_EMPLOYEE_LOOKUP             |
| CA Lookup | Oracle Behavior Detection to CA Event Lookup                                | BD_EVENT_LOOKUP                |
| CA Lookup | Oracle Behavior Detection to CA External Entity Daily Lookup                | BD_EXTERNALENTITYDLY_-LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA External Entity Lookup                      | BD_EXTERNAL_ENTITY_-LOOKUP     |
| CA Lookup | Oracle Behavior Detection to CA House Hold Summary Lookup                   | BD_HOUSEHOLDSMRY_-LOOKUP       |
| CA Lookup | Oracle Behavior Detection to CA Household Balance Lookup                    | BD_HOUSEHOLDBALDLY_-LOOKUP     |

**Table 31: Sub-processes**

|           |                                                                    |                               |
|-----------|--------------------------------------------------------------------|-------------------------------|
| CA Lookup | Oracle Behavior Detection to CA Institution Account Daily Lookup   | BD_INSTLACCOUNTDLY_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Institution Account Summary Lookup | BD_INSTACCOUNTSMRY_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Institution Lookup                 | BD_INSTITUTION_LOOKUP         |
| CA Lookup | Oracle Behavior Detection to CA Insurance Policy Balance Lookup    | BD_INSURANCEPOLICYBAL_-LOOKUP |
| CA Lookup | Oracle Behavior Detection to CA Insurance Policy Daily Lookup      | BD_INSURANCEPOLICYDLY_-LOOKUP |
| CA Lookup | Oracle Behavior Detection to CA InsurancePolicy Customer Lookup    | BD_INSURPOLICY_CUST_-LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Investment Advisor Lookup          | BD_INVESTMENT_ADVISOR_-LOOKUP |
| CA Lookup | Oracle Behavior Detection to CA Investment Advisor Lookup          | BD_INVESTMENTADVISOR-LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Investment Advisor Summary Lookup  | BD_INVESTMENTSMRY_-LOOKUP     |
| CA Lookup | Oracle Behavior Detection to CA LinkAnalysis Lookup                | BD_LINKANALYSIS_LOOKUP        |
| CA Lookup | Oracle Behavior Detection to CA Loan Lookup                        | BD_LOAN_LOOKUP                |
| CA Lookup | Oracle Behavior Detection to CA Loan Summary Lookup                | BD_LOANSMRY_LOOKUP            |
| CA Lookup | Oracle Behavior Detection to CA MI Transaction Lookup              | BD_MI_TRXN_LOOKUP             |
| CA Lookup | Oracle Behavior Detection to CA Managed Account Daily Lookup       | BD_MANAGEDACCOUNTDLY_LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Managed Account Lookup             | BD_MANAGEDACCOUNT_-LOOKUP     |
| CA Lookup | Oracle Behavior Detection to CA Market Center Lookup               | BD_MARKET_CENTER_-LOOKUP      |
| CA Lookup | Oracle Behavior Detection to CA NetworkLogon Lookup                | BD_NETWORKLOGON_-LOOKUP       |
| CA Lookup | Oracle Behavior Detection to CA NetworkUser Account Lookup         | BD_NTWKUSER_ACCOUNT_-LOOKUP   |
| CA Lookup | Oracle Behavior Detection to CA Online Account Lookup              | BD_ONLINEACCOUNT_-LOOKUP      |
| CA Lookup | Oracle Behavior Detection to CA OnlineAccount Account Lookup       | BD_ONLINEACCT_ACCT_-LOOKUP    |
| CA Lookup | Oracle Behavior Detection to CA Peer Group Lookup                  | BD_PEER_GROUP_LOOKUP          |
| CA Lookup | Oracle Behavior Detection to CA Trade Lookup                       | BD_TRADE_LOOKUP               |
| CA Lookup | Oracle Behavior Detection to CA Wire Transaction Lookup            | BD_WIRE_TRXN_LOOKUP           |

**Table 31: Sub-processes**

| CA Area             | Process Name                                                                      | Process Parameter         |
|---------------------|-----------------------------------------------------------------------------------|---------------------------|
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Account                          | BD_EVENT_ENTITY_MAP_AC    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Account Balance Position Summary | BD_EVENT_ENTITY_MAP_ABPS  |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Account Group                    | BD_EVENT_ENTITY_MAP_AG    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Account Summary Month            | BD_EVENT_ENTITY_MAP_ASM   |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Back Office Transaction          | BD_EVENT_ENTITY_MAP_BOT   |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Cash Transaction                 | BD_EVENT_ENTITY_MAP_CT    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Client Bank Summary Month        | BD_EVENT_ENTITY_MAP_CBSM  |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Customer                         | BD_EVENT_ENTITY_MAP_CUST  |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Customer Summary Month           | BD_EVENT_ENTITY_MAP_CSM   |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Derived Address                  | BD_EVENT_ENTITY_MAP_DA    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Employee                         | BD_EVENT_ENTITY_MAP_EMPL  |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map External Entity                  | BD_EVENT_ENTITY_MAP_EE    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Institution Master               | BD_EVENT_ENTITY_MAP_IM    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Investment Advisor               | BD_EVENT_ENTITY_MAP_IA    |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Loan                             | BD_EVENT_ENTITY_MAP_LOAN  |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Loan summary month               | BD_EVENT_ENTITY_MAP_LSM   |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map MI Transaction                   | BD_EVENT_ENTITY_MAP_MIT   |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Trade                            | BD_EVENT_ENTITY_MAP_TRADE |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Entity Map Wire Transaction                 | BD_EVENT_ENTITY_MAP_WT    |

**Table 31: Sub-processes**

| CA Event Entity Map | Oracle Behavior Detection to CA Event entity map Account ATM summary daily          | BD_EVENT_ENTI-TY_MAP_AASD   |
|---------------------|-------------------------------------------------------------------------------------|-----------------------------|
| CA Event Entity Map | Oracle Behavior Detection to CA Event entity map Anticipatory Profile               | BD_EVENT_ENTITY_MAP_NP      |
| CA Event Entity Map | Oracle Behavior Detection to CA Event entity map Employee Account                   | BD_EVENT_ENTITY_MAP_EA      |
| CA Event Entity Map | Oracle Behavior Detection to CA Event entity map Household Balance position summary | BD_EVENT_ENTI-TY_MAP_HBPS   |
| CA Event Entity Map | Oracle Behavior Detection to CA Event Scoring                                       | BD_EVENT_SCORE              |
| CA Area             | Process Name                                                                        | Process Parameter           |
| CA Business         | Oracle Behavior Detection to CA Account                                             | BD_ACCT                     |
| CA Business         | Oracle Behavior Detection to CA Account ATM summary Daily                           | BD_ACCT_ATM_SMRY_DAILY      |
| CA Business         | Oracle Behavior Detection to CA Account Address                                     | BD_ACCT_ADDR                |
| CA Business         | Oracle Behavior Detection to CA Account Balance Position Summary                    | BD_ACCT_BAL_POSN_SMRY       |
| CA Business         | Oracle Behavior Detection to CA Account Email Address                               | BD_ACCT_EMAIL_ADDR          |
| CA Business         | Oracle Behavior Detection to CA Account Group                                       | BD_ACCT_GRP                 |
| CA Business         | Oracle Behavior Detection to CA Account Institution mapping                         | BD_ACCT_ID_INSTN_ID_MAP     |
| CA Business         | Oracle Behavior Detection to CA Account List Membership                             | BD_ACCT_LIST_MEMBERSHIP     |
| CA Business         | Oracle Behavior Detection to CA Account Peer Group                                  | BD_ACCT_PEER_GRP            |
| CA Business         | Oracle Behavior Detection to CA Account Peer Transaction Summary Month              | BD_ACCT_PEER_TRXN_SMRY_MNTH |
| CA Business         | Oracle Behavior Detection to CA Account Phone                                       | BD_ACCT_PHON                |
| CA Business         | Oracle Behavior Detection to CA Account Restriction                                 | BD_ACCT_RSTRN               |
| CA Business         | Oracle Behavior Detection to CA Account Summary Month                               | BD_ACCT_SMRY_MNTH           |
| CA Business         | Oracle Behavior Detection to CA Account Supplemental Attribute                      | BD_ACCT_SUPPLEMEN-TAL_ATR   |
| CA Business         | Oracle Behavior Detection to CA Anticipatory Profile                                | BD_NTCPTRY_PRFL             |
| CA Business         | Oracle Behavior Detection to CA Back Office Transaction                             | BD_BACK_OFFICE_TRXN         |
| CA Business         | Oracle Behavior Detection to CA Cash Transaction                                    | BD_CASH_TRXN                |
| CA Business         | Oracle Behavior Detection to CA Client Bank                                         | BD_CLIENT_BANK              |
| CA Business         | Oracle Behavior Detection to CA Client Bank List Membership                         | BD_CB_LIST_MEMBERSHIP       |

**Table 31: Sub-processes**

|             |                                                                            |                                  |
|-------------|----------------------------------------------------------------------------|----------------------------------|
| CA Business | Oracle Behavior Detection to CA Client Bank Peer Group                     | BD_CLIENT_BANK_PEER_GRP          |
| CA Business | Oracle Behavior Detection to CA Client Bank Peer Transaction Summary Month | BD_CB_PR_TRXN_SM-<br>RY_MNTH     |
| CA Business | Oracle Behavior Detection to CA Client Bank Summary Month                  | BD_CLIENT_BANK_SM-<br>RY_MNTH    |
| CA Business | Oracle Behavior Detection to CA Customer Account Role                      | BD_CUST_ACCT_ROLE                |
| CA Business | Oracle Behavior Detection to CA Customer to Customer                       | BD_CUST_CUST                     |
| CA Business | Oracle Behavior Detection to CA Customers                                  | BD_CUST                          |
| CA Business | Oracle Behavior Detection to CA Customers Account                          | BD_CUST_ACCT                     |
| CA Business | Oracle Behavior Detection to CA Customers Address                          | BD_CUST_ADDR                     |
| CA Business | Oracle Behavior Detection to CA Customers Email Address                    | BD_CUST_EMAIL_ADDR               |
| CA Business | Oracle Behavior Detection to CA Customers IMP License                      | BD_CUST_IMP_LICENSE              |
| CA Business | Oracle Behavior Detection to CA Customers IMP License Good                 | BD_CUST_IMP_LICENSE_-<br>GOOD    |
| CA Business | Oracle Behavior Detection to CA Customers List Membership                  | BD_CUST_LIST_MEMBER-<br>SHIP     |
| CA Business | Oracle Behavior Detection to CA Customers Phone                            | BD_CUST_PHON                     |
| CA Business | Oracle Behavior Detection to CA Customers Summary Months                   | BD_CUST_SMRY_MNTH                |
| CA Business | Oracle Behavior Detection to CA Customers Supplemental Attribute           | BD_CUST_SUPPLEMEN-<br>TAL_ATR    |
| CA Business | Oracle Behavior Detection to CA Derived Address                            | BD_DERIVED_ADDRESS               |
| CA Business | Oracle Behavior Detection to CA Employee                                   | BD_EMP                           |
| CA Business | Oracle Behavior Detection to CA Employee Address                           | BD_EMP_ADDR                      |
| CA Business | Oracle Behavior Detection to CA Employee Email Address                     | BD_EMP_EMAIL_ADDR                |
| CA Business | Oracle Behavior Detection to CA Employee Phone                             | BD_EMP_PHON                      |
| CA Business | Oracle Behavior Detection to CA Employee to Account                        | BD_EMP_ACCT                      |
| CA Business | Oracle Behavior Detection to CA External Entity                            | BD_EXTERNAL_ENTITY               |
| CA Business | Oracle Behavior Detection to CA External Entity Address                    | BD_EXTERNAL_ENTI-<br>TY_ADDR     |
| CA Business | Oracle Behavior Detection to CA External Entity Link                       | BD_FCC_EXTERNAL_ENTI-<br>TY_LINK |
| CA Business | Oracle Behavior Detection to CA External Entity Membership                 | BD_EXTRNAL_NT-<br>TY_MMBRSHIP    |
| CA Business | Oracle Behavior Detection to CA House Hold Summary Month                   | BD_EVENT_ENTI-<br>TY_MAP_HSM     |



**Table 31: Sub-processes**

|                |                                                                       |                                  |
|----------------|-----------------------------------------------------------------------|----------------------------------|
| CA Business    | Oracle Behavior Detection to CA HouseHold Balance Position Summary    | BD_HH_BAL_POSN_SMRY              |
| CA Business    | Oracle Behavior Detection to CA Household summary Month               | BD_HH_SMRY_MNTH                  |
| CA Business    | Oracle Behavior Detection to CA Institution Master                    | BD_INSTN_MASTER                  |
| CA Business    | Oracle Behavior Detection to CA Institutional Account Summary Month   | BD_INSTL_ACCT_SM-<br>RY_MNTH     |
| CA Business    | Oracle Behavior Detection to CA Insurance Policy                      | BD_INSURANCE_POLICY              |
| CA Business    | Oracle Behavior Detection to CA Insurance Policy Customer             | BD_INSURANCE_POLICY_-<br>CUST    |
| CA Business    | Oracle Behavior Detection to CA Insurance Product                     | BD_INSURANCE_PRODUCT             |
| CA Business    | Oracle Behavior Detection to CA Investment Manager                    | BD_NVSMT_MGR                     |
| CA Business    | Oracle Behavior Detection to CA Investment Manager Summary Month      | BD_NVSMT_MGR_SM-<br>RY_MNTH      |
| CA Business    | Oracle Behavior Detection to CA LinkAnalysis Link                     | BD_LINKANALYSIS_LINK             |
| CA Business    | Oracle Behavior Detection to CA LinkAnalysis LinkSum-<br>mary         | BD_LINKANALYSIS_LINK-<br>SUMMARY |
| CA Business    | Oracle Behavior Detection to CA LinkAnalysis Network                  | BD_LINKANALYSIS_NET-<br>WORK     |
| CA Business    | Oracle Behavior Detection to CA LinkAnalysis Node                     | BD_LINKANALYSIS_NODE             |
| CA Business    | Oracle Behavior Detection to CA LinkAnalysis TypeSum-<br>mary         | BD_LINKANALYSIS_TYPE-<br>SUMMARY |
| CA Business    | Oracle Behavior Detection to CA Loan                                  | BD_LOAN                          |
| CA Business    | Oracle Behavior Detection to CA Loan Summary Month                    | BD_LOAN_SMRY_MNTH                |
| CA Business    | Oracle Behavior Detection to CA MI Transaction                        | BD_MI_TRXN                       |
| CA Business    | Oracle Behavior Detection to CA Managed Account                       | BD_MANGD_ACCT                    |
| CA Business    | Oracle Behavior Detection to CA Online Account                        | BD_ONLINE_ACCT                   |
| CA Business    | Oracle Behavior Detection to CA Online Account                        | BD_ONLINE_ACCT_ACCT              |
| CA Business    | Oracle Behavior Detection to CA Peer Group                            | BD_PEER_GRP                      |
| CA Business    | Oracle Behavior Detection to CA Trade                                 | BD_TRADE                         |
| CA Business    | Oracle Behavior Detection to CA<br>TransactionPartyCrossReference BOT | BD_TRXN_PARTY_XREF_BOT           |
| CA Business    | Oracle Behavior Detection to CA<br>TransactionPartyCrossReference FOT | BD_TRXN_PARTY_XREF_FOT           |
| CA Business    | Oracle Behavior Detection to CA Wire Transaction                      | BD_WIRE_TRXN                     |
| <b>CA Area</b> | <b>Process Name</b>                                                   | <b>Data Movement Code</b>        |

**Table 31: Sub-processes**

| Additional Information | BD_ENTITY_SUP_INFO This sub-process code has to be executed after the business data population (see the Business Metadata Movement) | BD_ENTITY_SUP_INFO            |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| CA Area                | Process Name                                                                                                                        | Data Movement Code            |
| CA Evented             | Oracle Behavior Detection to CA Evented Account                                                                                     | BD_ACCT_EVENT                 |
| CA Evented             | Oracle Behavior Detection to CA Evented Account ATM summary Daily                                                                   | BD_ACCT_ATM_SMRY_DAILY_EVNT   |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Address                                                                             | BD_ACCT_ACCT_ADDR_EVNT        |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Balance Position Summary                                                            | BD_ACCT_BAL_POSN_SMRY_EVNT    |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Group                                                                               | BD_ACCT_GRP_EVNT              |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Peer Group                                                                          | BD_ACCT_PEER_GRP_EVNT         |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Peer Transaction Summary Month                                                      | BD_ACCT_PR_TXN_SMRY_MN_EVNT   |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Restriction                                                                         | BD_ACCT_RSTRN_EVNT            |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Summary Month                                                                       | BD_ACCT_SMRY_MNTH_EVNT        |
| CA Evented             | Oracle Behavior Detection to CA Evented Account Supplemental Attribute                                                              | BD_ACCT_SUPPLEMENTAL_ATR_EVNT |
| CA Evented             | Oracle Behavior Detection to CA Evented Anticipatory Profile                                                                        | BD_NTCPTRY_PRFL_EVNT          |
| CA Evented             | Oracle Behavior Detection to CA Evented Back Office Transaction                                                                     | BD_BACK_OFFICE_TRXN_EVNT      |
| CA Evented             | Oracle Behavior Detection to CA Evented Cash Transaction                                                                            | BD_CASH_TRXN_EVNT             |
| CA Evented             | Oracle Behavior Detection to CA Evented Client Bank                                                                                 | BD_CLIENT_BANK_EVNT           |
| CA Evented             | Oracle Behavior Detection to CA Evented Client Bank Peer Group                                                                      | BD_-CLINT_BNK_PR_GRP_EVNT     |
| CA Evented             | Oracle Behavior Detection to CA Evented Client Bank Peer Transaction Summary Month                                                  | BD_CB_PR_TXN_SM_MNT_EVNT      |
| CA Evented             | Oracle Behavior Detection to CA Evented Client Bank Summary Month                                                                   | BD_CLNT_BNK_SM_MNT_EVNT       |
| CA Evented             | Oracle Behavior Detection to CA Evented Customer Balance Position Summary                                                           | BD_CUST_BAL_POSN_SMRY_EVNT    |
| CA Evented             | Oracle Behavior Detection to CA Evented Customers                                                                                   | BD_CUST_EVNT                  |
| CA Evented             | Oracle Behavior Detection to CA Evented Customers IMP License                                                                       | BD_CUST_IMP_LICENSE_EVNT      |

**Table 31: Sub-processes**

|            |                                                                            |                              |
|------------|----------------------------------------------------------------------------|------------------------------|
| CA Evented | Oracle Behavior Detection to CA Evented Customers IMP License Good         | BD_CUST_IMP_LIC_-GOD_EVNT    |
| CA Evented | Oracle Behavior Detection to CA Evented Customers Summary Months           | BD_CUST_SM-RY_MNTH_EVNT      |
| CA Evented | Oracle Behavior Detection to CA Evented Customers Supplemental Attribute   | BD_CUST_SUPPL_ATR_EVNT       |
| CA Evented | Oracle Behavior Detection to CA Evented Derived Address                    | BD_DERIVED_ADDRESS_EVNT      |
| CA Evented | Oracle Behavior Detection to CA Evented Employee                           | BD_EMP_EVNT                  |
| CA Evented | Oracle Behavior Detection to CA Evented Employee Address                   | BD_EMP_ADDR_EVNT             |
| CA Evented | Oracle Behavior Detection to CA Evented Employee Email Address             | BD_EMP_EMAIL_ADDR_EVNT       |
| CA Evented | Oracle Behavior Detection to CA Evented Employee Phone                     | BD_EMP_PHON_EVNT             |
| CA Evented | Oracle Behavior Detection to CA Evented Employee to Account                | BD_EMP_ACCT_EVNT             |
| CA Evented | Oracle Behavior Detection to CA Evented External Entity                    | BD_EXTERNAL_ENTITY_EVNT      |
| CA Evented | Oracle Behavior Detection to CA Evented External Entity Address            | BD_XTRNL_ENTY_ADR_EVNT       |
| CA Evented | Oracle Behavior Detection to CA Evented External Org                       | BD_EXTRL_ORG_EVNT            |
| CA Evented | Oracle Behavior Detection to CA Evented Household Balance Position Summary | BD_HH_BAL_POSN_SM-RY_EVNT    |
| CA Evented | Oracle Behavior Detection to CA Evented Household summary Month            | BD_HH_SMRY_MNTH_EVNT         |
| CA Evented | Oracle Behavior Detection to CA Evented Institution Master                 | BD_INSTN_MASTER_EVNT         |
| CA Evented | Oracle Behavior Detection to CA Evented Insurance Policy                   | BD_INSURANCE_POLICY_EVNT     |
| CA Evented | Oracle Behavior Detection to CA Evented Insurance Policy Customer          | BD_INS_PLCY_CUST_EVNT        |
| CA Evented | Oracle Behavior Detection to CA Evented Insurance Product                  | BD_INSURANCE_PRODUCT_EVNT    |
| CA Evented | Oracle Behavior Detection to CA Evented Investment Manager                 | BD_NVSMGT_MGR_EVNT           |
| CA Evented | Oracle Behavior Detection to CA Evented Investment Manager Summary Month   | BD_NVSMGT_MGR_SMRY_MNTH_EVNT |
| CA Evented | Oracle Behavior Detection to CA Evented Loan                               | BD_LOAN_EVNT                 |
| CA Evented | Oracle Behavior Detection to CA Evented Loan Summary Month                 | BD_LOAN_SMRY_MNTH_EVNT       |

**Table 31: Sub-processes**

|            |                                                                             |                                 |
|------------|-----------------------------------------------------------------------------|---------------------------------|
| CA Evented | Oracle Behavior Detection to CA Evented MI Transaction                      | BD_MI_TRXN_EVNT                 |
| CA Evented | Oracle Behavior Detection to CA Evented Managed Account                     | BD_MANGD_ACCT_EVNT              |
| CA Evented | Oracle Behavior Detection to CA Evented Online Account                      | BD_ONLINE_ACCT_EVNT             |
| CA Evented | Oracle Behavior Detection to CA Evented Peer Group                          | BD_PEER_GRP_EVNT                |
| CA Evented | Oracle Behavior Detection to CA Evented Trade                               | BD_TRADE_EVNT                   |
| CA Evented | Oracle Behavior Detection to CA Evented Wire Transaction                    | BD_WIRE_TRXN_EVNT               |
| CA Evented | Oracle Behavior Detection to CA Evented Institutional Account Summary Month | BD_INSTL_ACCT_SUMMARY_MNTH_EVNT |

Following processes are related to network building block:

- BD\_LINKANALYSIS\_LOOKUP (Oracle Behavior Detection to CA LinkAnalysis Lookup)
- BD\_LINKANALYSIS\_NETWORK (Oracle Behavior Detection to CA LinkAnalysis Network)
- BD\_LINKANALYSIS\_NODE (Oracle Behavior Detection to CA LinkAnalysis Node)
- BD\_LINKANALYSIS\_LINK (Oracle Behavior Detection to CA LinkAnalysis Link)
- BD\_LINKANALYSIS\_LINKSUMMARY (Oracle Behavior Detection to CA LinkAnalysis LinkSummary)
- BD\_LINKANALYSIS\_TYPESUMMARY (Oracle Behavior Detection to CA LinkAnalysis TypeSummary)

**Table 32: Promote\_To\_Case T2Ts**

| LEVEL 0   | LEVEL 1                        | LEVEL2                         | LEVEL 3 |
|-----------|--------------------------------|--------------------------------|---------|
| KDD_CASES | KDD_CASE_ACCOUNTS              | KDD_CASE_ACCT_ADDRS            |         |
|           | KDD_CASE_ACCT_ATM_SMRY_DAILY   | KDD_CASE_ACCT_BAL_POSN_SMRY    |         |
|           | KDD_CASE_ACCT_GRP              | KDD_CASE_ACCT_LIST_MEMBERSHIPS |         |
|           | KDD_CASE_ACCT_ID_INSTN_ID_MAP  | KDD_CASE_ACCT_RSTRNS           |         |
|           | KDD_CASE_ACCT_PEER_GRP         | KDD_CASE_ACCT_SMRY_MNTH        |         |
|           | KDD_CASE_ACT_PEER_TXN_SMR_MNTH | KDD_CASE_ACCT_SUPPL_ATTR       |         |
|           | KDD_CASE_ATTRBT_VAL_MAP        | KDD_CASE_INSTL_ACCT_SMRY_MNTH  |         |
|           | KDD_CASE_BACK_OFFICE_TRXN      | KDD_CASE_MANGD_ACCT            |         |
|           | KDD_CASE_CASH_TRXN             | KDD_CASE_ACCT_EMAIL_ADDR       |         |
|           | KDD_CASE_CB_PEER_TXN_SMRY_MNTH | KDD_CASE_ACCT_PHON             |         |
|           | KDD_CASE_CUSTOMERS             | KDD_CASE_HH_BAL_POSN_SMRY      |         |
|           | KDD_CASE_CUST_ACCT             | KDD_CASE_HH_SMRY_MNTH          |         |
|           | KDD_CASE_CUST_CREDIT_RTNG      | KDD_CASE_CUST_ADDRS            |         |
|           | KDD_CASE_DERIVED_ADDRESS       | KDD_CASE_CUST_EMAILS           |         |
|           | KDD_CASE_EMP                   | KDD_CASE_CUST_LIST_MEMBERSHIPS |         |
|           | KDD_CASE_EMP_ACCT              | KDD_CASE_CUST_PHONS            |         |
|           | KDD_CASE_INSTN_MASTER          | KDD_CASE_CUST_SMRY_MNTH        |         |
|           | KDD_CASE_INSTRUCTION           | KDD_CASE_CUST_SUPPL_ATTR       |         |
|           | KDD_CASE_INVOLVED_PARTY_LINK   | KDD_CASE_EMP_ADDR              |         |
|           | KDD_CASE_LINKS                 | KDD_CASE_EMP_EMAIL_ADDR        |         |
|           | KDD_CASE_LOAN                  | KDD_CASE_EMP_PHONE             |         |
|           |                                | KDD_CASE_CUST_CUST             |         |

**Table 32: Promote\_To\_Case T2Ts**

| LEVEL 0 | LEVEL 1                       | LEVEL2                         | LEVEL 3                                                                                       |
|---------|-------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------|
|         | KDD_CASE_LOSS_RECOVERY        | KDD_CASE_CB_LIST_MEMBER-SHIP   | KDD_CASE_EXTRNL_NTITY_ADDR<br>KDD_CASE_EXTRNL_NTITY_MBRSHIP<br>KDD_CASE_EXTRL_NTITY_SMRY_MNTH |
|         | KDD_-CASE_LOSS_RECVRY_COST_CR | KDD_CASE_CLIENT_BANK           |                                                                                               |
|         | KDD_CASE_MI_TRXN              | KDD_CASE_CLI-ENT_BANK_PEER_GRP |                                                                                               |
|         | KDD_CASE_NARRATIVE            | KDD_CASE_CLIENT_BANK_SMRY_MNTH |                                                                                               |

- KDD\_CASE\_ACCOUNTS (Level 1) process has to be executed before the execution of KDD\_CASE\_ACCT\_ADDRS, KDD\_CASE\_ACCT\_BAL\_POSN\_SMRY, KDD\_CASE\_ACCT\_LIST\_MEMBER-SHIPS, KDD\_CASE\_ACCT\_RSTRNS, KDD\_CASE\_ACCT\_SMRY\_MNTH, KDD\_CASE\_ACCT\_SUPPL\_ATTR, KDD\_CASE\_INSTL\_ACCT\_SMRY\_MNTH, KDD\_CASE\_MANG-D\_ACCT, KDD\_CASE\_ACCT\_EMAIL\_ADDR, and KDD\_CASE\_ACCT\_PHON.
- KDD\_CASE\_ACCT\_GRP (Level 1) process has to be executed before the execution of KDD\_CASE\_HH\_BAL\_POSN\_SMRY, and KDD\_CASE\_HH\_SMRY\_MNTH.
- KDD\_CASE\_CUSTOMERS (Level 1) process has to be executed before the execution of KDD\_CASE\_CUST\_ADDRS, KDD\_CASE\_CUST\_EMAILS, KDD\_CASE\_CUST\_LIST\_MEMBERSHIPS, KDD\_CASE\_CUST\_PHONS, KDD\_CASE\_CUST\_SMRY\_MNTH, and KDD\_CASE\_CUST\_SUP-PL\_ATTR.
- KDD\_CASE\_EMP (Level 1) process has to be executed before the execution of KDD\_-CASE\_EMP\_ADDR, KDD\_CASE\_EMP\_EMAIL\_ADDR, and KDD\_CASE\_EMP\_PHON.
- KDD\_CASE\_INSTN\_MASTER (Level 1) process has to be executed before execution of KDD\_CASE\_CB\_LIST\_MEMBERSHIP, KDD\_CASE\_CLIENT\_BANK, KDD\_CASE\_CLI-ENT\_BANK\_PEER\_GRP, KDD\_CASE\_CLIENT\_BANK\_SMRY\_MNTH, and KDD\_CASE\_EXTERNAL\_ENTITY.
- KDD\_CASE\_LOAN (Level 1) process has to be executed before the execution of KDD\_CASE\_LOAN\_SMRY\_MNTH.
- KDD\_CASE\_NVSMT\_MGR (Level 1) process has to be executed before the execution of KDD\_CASE\_NVSMT\_MGR\_SMRY\_MNTH.
- KDD\_CASE\_EXTERNAL\_ENTITY (Level 2) process has to be executed before execution of KDD\_CASE\_EXTRNL\_NTITY\_ADDR, KDD\_CASE\_EXTRNL\_NTITY\_MBRSHIP, and KDD\_CASE\_EXTRL\_NTITY\_SMRY\_MNTH.

### 19.1.7 End Batch

BD\_ECM\_End\_E2E\_Batch is used for ending the batch execution for BD.

## 19.2 OCS Application Process

The following processes are used for this:

- Start Batch
- Load Data from CS to ECM

- Correlation
- Scoring
- Promote to Case
- Create Case
- End Batch

### 19.2.1 Start Batch

ECM\_Start\_E2E\_Batch\_For\_CS process is used to start the batch to move the data from OCS to ECM.

### 19.2.2 Load Data from CS to ECM

Load\_From\_CS\_To\_CA is used for loading the CS data from the Landing area to the Consolidation area. This has the following four sub-processes:

- Loading Oracle CS Events: loads the CS events to Consolidation area
- Entity Surrogate Key Generation For Oracle CS
- Evented Data Load for CS
- Business Data Load for CS

### 19.2.3 Correlation

This is used to perform correlation on loaded CS events.

- DT\_CORRELATION

### 19.2.4 Scoring

Scoring\_OCS is used to perform the scoring of OCS events. This has the following sub-process:

- Pre-Case-Scoring For Oracle CS

### 19.2.5 Promote to Case

Promote\_To\_Case\_Decision\_OCS is used to decide if an OCS correlation can be promoted to a case. This is based on the defined threshold limit. This has the following sub-process:

- Pre Case Promotion Rule

### 19.2.6 Create Case

Create\_Case is used to create a case if an OCS event is promoted to the case.

Following is the list of Promote\_To\_Case T2Ts:

- f\_generatecaseid
- f\_insertcases
- Promote\_To\_Case T2Ts (see the [Table](#) )
- CASE\_COMPLETION\_FLAG

## 19.2.7 End Batch

ECM\_End\_E2E\_Batch\_For\_CS is used for ending the batch execution for CS.

## 19.3 OFATCA Application Process

The following processes are used for this:

- Start Batch
- Load Data from FATCA to ECM
- Data Movement DIM\_FATCA\_STATUS To DIM\_FATCA\_STS
- Correlation
- Scoring
- Promote to Case
- Create Case
- Update FATCA Status to Case
- Insert Customer REP information
- Case FATCA Status Attribute
- Case Focal Customer ID Attribute
- Case Account ID related Attribute
- End Batch

### 19.3.1 Start Batch

ECM Start E2E Batch for the FATCA process is used to start the batch execution to move the data from OFATCA to ECM.

### 19.3.2 Load Data from FATCA to ECM

Load\_From\_OFATCA\_To\_CA process loads OFATCA data from the Landing area to the Consolidation area. This has the following four sub-processes:

- Loading Oracle FATCA Events: loads the FATCA events to the Consolidation area
- Entity Surrogate Key Generation For Oracle FATCA: This should be executed after **Loading Oracle FATCA Events** sub-process.
- Evented Data Load for FATCA
- Business Data Load for FATCA

| LEVEL 0                 | LEVEL 1           | LEVEL 2                    | LEVEL 3                          | LEVEL 4 | LEVEL 5             |
|-------------------------|-------------------|----------------------------|----------------------------------|---------|---------------------|
| FATCA_FC-C_EVENT_LOOKUP | FATCA_FC-C_EVENTS | FATCA_FCC_CUS-TOMER_LOOKUP | FATCA_FC-C_EVENT_ENTI-TY_MAP_ACC | BD_ACCT | FATCA_FCC-CUST_EVNT |



| LEVEL 0 | LEVEL 1                     | LEVEL 2                          | LEVEL 3                           | LEVEL 4                    | LEVEL 5                    |
|---------|-----------------------------|----------------------------------|-----------------------------------|----------------------------|----------------------------|
|         | FATCA_FC-C_EVENT_DETAILS    | FATCA_FCC_AC-COUNT_LOOKUP        | FATCA_FC-C_EVENT_ENTI-TY_MAP_CUS  | BD_ACCT_ADDR               | FATCA_FC-C_ACCT_EVNT       |
|         | FATCA_FCC_FAT-CA_EVENT_DTLS | FATCA_CUSTOM-ER_ACCOUNT_-LOOKUP  | FATCA_FC-C_EVENT_ENTI-TY_MAP_RULE | BD_ACCT_E-MAIL_ADDR        | FATCA_FCC_-CUST_ACCT_EVNT  |
|         | FATCA_FC-C_EVENT_BINDING    | FATCA_CUSTOM-ER_CUSTOMER_-LOOKUP | FATCA_FC-C_EVENT_ENTI-TY_MAP_AC   | BD_ACCT_PHON               | FATCA_FCC_CUST_-CUST_EVNT  |
|         |                             |                                  |                                   | BD_ACCT_SM-RY_MNTH         | FATCA_FCC_FAT-CA_RULE_EVNT |
|         |                             |                                  |                                   | BD_CUST                    |                            |
|         |                             |                                  |                                   | BD_CUST_ACCT               |                            |
|         |                             |                                  |                                   | BD_CUST_ADDR               |                            |
|         |                             |                                  |                                   | BD_CUST_E-MAIL_ADDR        |                            |
|         |                             |                                  |                                   | BD_CUST_PHON               |                            |
|         |                             |                                  |                                   | BD_CUST_SM-RY_MNTH         |                            |
|         |                             |                                  |                                   | BD_CUST_CUST               |                            |
|         |                             |                                  |                                   | BD_-CUST_ACCT_ROLE         |                            |
|         |                             |                                  |                                   | FATCA_FCC_-CUST_RPTNG_INFO |                            |

Below is a list of DMs which are used for case search:

- CASE\_FATCA\_STS
- CASE\_CUST
- CASE\_ACCT

### 19.3.3 ECM Supplementary Information

BD\_ENTITY\_SUP\_INFO process of ECM\_SUPLMTRY\_INFO is used to provide additional information on data.

### 19.3.4 Data Movement DIM\_FATCA\_STATUS To DIM\_FATCA\_STS

This process is used to move the FATCA data from DIM\_FATCA\_STATUS to the DIM\_FATCA\_STS table.

Below DM is used for DIM\_FATCA\_STATUS data movement to ECM:

DIM\_FATCA\_MOVEMENT

### 19.3.5 Correlation

This is used to perform a correlation on loaded FATCA events.

- DT\_CORRELATION

### **19.3.6 Scoring**

Scoring\_OFATCA is used to perform the scoring of OFATCA events. This has the following sub-process:

- Pre-Case Scoring For Oracle FATCA

### **19.3.7 Promote to Case**

Promote\_To\_Case\_Decision\_OFATCA is used to decide if an OFATCA correlation can be promoted to a case. This is based on a defined threshold limit. This has the following sub-process:

- POPULATE\_P2C\_FL\_OFATCA

### **19.3.8 Create Case**

Create\_Case is used to create a case if an OFATCA event is promoted to the case.

Following is the list of Promote\_To\_Case T2Ts:

- f\_generatecaseid
- f\_insertcases
- t2t\_KDD\_CASE\_ACCOUNTS
- t2t\_KDD\_CASE\_CUSTOMERS
- t2t\_KDD\_CASE\_ACCT\_EMAIL\_ADDR
- t2t\_KDD\_CASE\_CUST\_ACCT
- t2t\_KDD\_CASE\_ACCT\_PHON
- t2t\_KDD\_CASE\_ACCT\_SMRY\_MNTH
- t2t\_KDD\_CASE\_CUST\_ADDR
- t2t\_KDD\_CASE\_CUST\_EMAIL\_ADDRS
- t2t\_KDD\_CASE\_CUST\_PHONE
- t2t\_KDD\_CASE\_CUST\_SMRY\_MNTH
- CASE\_COMPLETION\_FLAG
- CASE\_ASSIGNMENT

### **19.3.9 Update FATCA Status to Case**

UPDT\_FATCA\_STATUS\_TO\_CASE is used for updating the status of FATCA to the case.

### **19.3.10 Insert Customer REP information**

The INST\_FATCA\_CUST\_REP\_TO\_CASE process is used to insert FATCA customer information.

### 19.3.11 Case FATCA Status Attribute

The CASE\_FATCA\_STS process is used to update the FATCA attribute status.

### 19.3.12 Case Focal Customer ID Attribute

The CASE\_CUST process is used to update the Focal Customer ID of the case.

### 19.3.13 Case Account ID related Attribute

The CASE\_ACCT process is used to update the Account ID of the case.

### 19.3.14 End Batch

ECM\_End\_EZE\_Batch\_For\_FATCA is used for ending the batch execution for FATCA.

## 19.4 OKYC Application Process

The following processes are used for this:

- Start Batch
- Load Data from KYC to ECM
- Correlation
- Scoring
- Promote to Case
- Create Case
- Update Case ID
- End Batch

Note: After applying patch ECM patch 29519580, follow the below steps to add the task for movement of data to `fcc_party_party_rlshp`:

1. Login as ECM ADMIN.
2. Navigate to **Rule Run Framework** and select **Process**.
3. In the **Name** field, type **Oracle Behavior Detection to CA Customer List**.
4. Click **Edit**.
5. In the popup, click **Component**.
6. From the List, click **Process** and select **ECMSEGMENT**.
7. Move `BD_PARTY_PARTY_RLSHP_LOOKUP` and `BD_PARTY_PARTY_RLSHP` to the right **TASKS IN ROOTS** section.
8. Move the `BD_PARTY_PARTY_RLSHP_LOOKUP` task prior to `BD_PARTY_PARTY_RLSHP` in the **TASKS IN ROOTS** section.
9. Save the changes.

### 19.4.1 Start Batch

ECM Start E2E Batch for KYC process is used to start the batch execution to move the data from OKYC to ECM.

### 19.4.2 Load Data from KYC to ECM

Load\_From\_OKYC\_To\_CA process loads OKYC data from the Landing area to the Consolidation area. This has the following four sub-processes:

- Loading Oracle KYC Events: loads the KYC events to Consolidation area
- Entity Surrogate Key Generation For Oracle KYC: This should be executed after **Loading Oracle KYC Events** sub-process.
- Evented Data Load for KYC
- Business Data Load for KYC

### 19.4.3 Correlation

This is used to perform a correlation on loaded KYC events.

- DT\_CORRELATION

### 19.4.4 Scoring

Scoring\_OKYC is used to perform the scoring of OKYC events. This has the following sub-process:

- Pre-Case Scoring For Oracle KYC

### 19.4.5 Promote to Case

Promote\_To\_Case\_Decision\_OKYC is used to decide if an OKYC correlation can be promoted to a case. This is based on the defined threshold limit. This has the following sub-process:

- POPULATE\_P2C\_FL\_OKYC

### 19.4.6 Create Case

Create\_Case is used to create a case if an OKYC event is promoted to the case.

Following is the list of Promote\_To\_Case T2Ts:

- f\_generatecaseid
- f\_insertcases
- Promote\_To\_Case T2Ts (see the [Table](#) )
- CASE\_COMPLETION\_FLAG

### 19.4.7 Update Case ID

UPD\_Caseld\_To\_OKYC is used for updating the Case IDs to OKYC.

### 19.4.8 End Batch

ECM\_End\_E2E\_Batch\_For\_KYC is used for ending the batch execution for KYC.

## 19.5 OTBAML Application Process

The following processes are used for this:

- Start Batch
- Load Data from TBAML to ECM
- Loading Data from TBAML to Consolidation Area
- Correlation
- Scoring
- Promote to Case
- Create Case
- End Batch

### 19.5.1 Start Batch

TBAML\_ECM Start E2E Batch process is used to start the batch execution to move the data from OTBAML to ECM.

### 19.5.2 Load Data from TBAML to ECM

TBAML\_Load\_From\_LA\_To\_CA process loads OTBAML data from the Landing area to the Consolidation area. This has the following four sub-processes:

- Trade Based Anti Money Laundering Loading Events
- Trade Based Anti Money Laundering Entity Surrogate Key Generation
- Trade Based Anti Money Laundering Oracle Business Data Load
- Trade Based Anti Money Laundering Oracle Evented Data Load

Below is the list of TBAML sub-process codes.

Here, Level 0 sub-process code execution is a prerequisite for Level 1 subprocess execution. Similarly, Level 1 sub-process code execution is a prerequisite for Level 2 sub-process execution and so on. Subprocess within a level can be executed in any order or it can be executed in parallel. There are two types of processes: Scenario-based (TBAML\_EVENT\_LOOKUP) and Screening based (TBAML\_FCC\_EVENT\_- LOOKUP).

| LEVEL 0            | LEVEL 1             | LEVEL 2                       | LEVEL 3                     | LEVEL 4                   | LEVEL 5                         |
|--------------------|---------------------|-------------------------------|-----------------------------|---------------------------|---------------------------------|
| TBAML_EVENT_LOOKUP | TBAML_EVENT         | TBAML_TRADE_FIN_CNTRCT_LOOKUP | TBAML_EVENT_ENTITY_MAP_CUST | TBAML_TRADE_FIN_SWIFT_MSG | TBAML_CUST_IMP_LICENSE_EVNT     |
|                    | TBAML_EVENT_BINDING | TBAML_EXTRL_INSTR_PLCY_LOOKUP | TBAML_EVENT_ENTITY_MAP_TFP  | TBAML_TRADE_FIN_PARTY     | TBAML_CUST_IMP_LICENSE_GOD_EVNT |

| LEVEL 0 | LEVEL 1                  | LEVEL 2                                  | LEVEL 3                           | LEVEL 4                                | LEVEL 5                                  |
|---------|--------------------------|------------------------------------------|-----------------------------------|----------------------------------------|------------------------------------------|
|         | TBAML_EVENT_-<br>DETAILS | TBAM-<br>L_TRADE_DOCMN-<br>TRY_LOOKUP    | TBAML_EVENT_ENTI-<br>TY_MAP_TFGS  | TBAM-<br>L_TRADE_FIN_-<br>GOOD_SRVC    | TBAM-<br>L_TRADE_FIN_CN-<br>TRCT_EVNT    |
|         |                          | TBAML_DOC_COLL_-<br>MULTIT_LOOKUP        | TBAML_EVENT_ENTI-<br>TY_MAP_TFCE  | TBAML_EXTRL_-<br>INSUR-<br>ANCE_POLICY | TBAM-<br>L_TRADE_FIN_BRK-<br>G_DSTR_EVNT |
|         |                          | TBAML_TRD_FIN_-<br>GOD_SRVC_LOOKUP       | TBAML_EVENT_ENTI-<br>TY_MAP_TFC   | TBAML_-<br>CUST_IMP_LI-<br>CENSE_GOOD  | TBAML_EXTRL_IN-<br>SU_POLICY_EVNT        |
|         |                          | TBAM-<br>L_DOC_COLL_CN-<br>TRCT_LOOKUP   | TBAML_EVENT_ENTI-<br>TY_MAP_DCCE  | TBAML_-<br>CUST_IMP_LI-<br>CENSE       | TBAM-<br>L_TRADE_FIN_PAR-<br>TY_EVNT     |
|         |                          | TBAM-<br>L_TRADE_FIN_DOC_-<br>LOOKUP     | TBAML_EVENT_ENTI-<br>TY_MAP_DCCEE | TBAM-<br>L_TRADE_FIN_CN<br>TRCTEVENT   | TBAM-<br>L_TRADE_FIN_ACCT_E<br>VNT       |
|         |                          | TBAM-<br>L_TRADE_FIN_PAR-<br>TY_LOOKUP   | TBAML_EVENT_ENTI-<br>TY_MAP_DCSD  | TBAM-<br>L_TRADE_FIN_BR<br>KRGE_DSTR   | TBAM-<br>L_TRADE_FIN_DRAFT_<br>EVNT      |
|         |                          | TBAML_CUSTMER-<br>IMPRTLIC_LOOKUP        |                                   | TBAM-<br>L_TRADE_FIN_AC<br>CT          | TBAML_TRADE_FIN_-<br>GOOD_SRVC_EVNT      |
|         |                          | TBAM-<br>L_TRD_FIN_BRKRGE_<br>LOOKUP     |                                   | TBAML_DOCMN-<br>TRY_COLL_CN-<br>TRCT   | TBAML_TRD_FIN_C-<br>TRCTEVENT_EVNT       |
|         |                          | TBAM-<br>L_TRD_FIN_ACCT_-<br>LOOKUP      |                                   | TBAM-<br>L_TRADE_FIN_DO<br>C           | TBAM-<br>L_DOC_COLL_CN-<br>TRCT_EVNT     |
|         |                          | TBAM-<br>L_TRD_FIN_SWIFT_M<br>SG_LOOKUP  |                                   | TBAM-<br>L_TRADE_FIN_DR<br>AFT         | TBAM-<br>L_TRADE_FIN_SWIFT_<br>MSG_EVNT  |
|         |                          | TBAML_CUSTOM-<br>ER_LOOKUP               |                                   | TBAM-<br>L_TRADE_FIN_BR<br>KRGE        | TBAM-<br>L_TRADE_FIN_DOC_EV<br>NT        |
|         |                          | TBAM-<br>L_TRADE_FIN_DRAFT<br>_LOOKUP    |                                   | TBAM-<br>L_TRADE_FIN_CN<br>TRCT        | TBAML_CUST_EVNT                          |
|         |                          | TBAM-<br>L_DOC_COL_CN-<br>TRT_EVT_LOOKUP |                                   | TBAML_CUST                             | TBAM-<br>L_DOC_COLL_SHP-<br>MT_DTL_EVNT  |
|         |                          |                                          |                                   | TBAML_-<br>CUST_ACCT                   | TBAM-<br>L_DOC_COLL_CN-<br>TRCTE_EVENT   |
|         |                          |                                          |                                   | TBAML_-<br>CUST_ADDR                   |                                          |
|         |                          |                                          |                                   | TBAML_CUST_E-<br>MAIL_ADDR             |                                          |
|         |                          |                                          |                                   | TBAML_CUST_-<br>PHON                   |                                          |
|         |                          |                                          |                                   | TBAML_-<br>CUST_LIST_MEM<br>BERSHIP    |                                          |

| LEVEL 0                 | LEVEL 1                        | LEVEL 2                        | LEVEL 3                         | LEVEL 4                       | LEVEL 5                        |
|-------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------|
|                         |                                |                                |                                 | TBAML_DOCMNTRY_COLL_CNTRCTE   |                                |
|                         |                                |                                |                                 | TBAML_DOCMNTRY_COLL_SHPMT_DTL |                                |
|                         |                                |                                |                                 |                               |                                |
| TBAML_FC-C_EVENT_LOOKUP | TBAML_FC-C_EVENTS              | TBAML_FCC_TBAML_WATCHLIST_LKUP | TBAML_FCC_TBAML_WATCHLIST       | TBAML_BD_DERIVED_ADDRESS      | TBAML_FCC_CUST_EVNT            |
|                         | TBAML_FCC_TBAML_EVENTS_OUTCOME | TBAML_FCC_CNTRCT_MSG_LOOKUP    | TBAML_FC-C_EVENT_ENTITY_MAP_WIT | TBAML_FSI_RT_RAW_DATA         | TBAML_FCC_TBAML_EVENT_MATCHES  |
|                         | TBAML_FC-C_EVENT_DETAILS       |                                | TBAML_FC-C_EVENT_ENTITY_MAP_Cst |                               | TBAML_FCC_TBAML_WATCHLIST_EVNT |
|                         |                                |                                | TBAML_FC-C_EVENT_ENTITY_MAP_tcm |                               | TBAML_FCC_TBAML_CNTRCT_MSG_EVE |
|                         |                                |                                | TBAML_FC-C_EVENT_ENTITY_MAP_tfc |                               | TBAML_TRADE_FIN_CNTRCT_EVNT_SC |

### 19.5.3 Loading Data from TBAML to Consolidation Area

Load\_From\_TBAML\_To\_CA process loads data from TBAML to Consolidation area. This has the following three sub-processes:

- Loading TBAML Events
- Entity Surrogate Key Generation For TBAML
- Evented Data Load For TBAML

### 19.5.4 Correlation

This is used to perform a correlation on loaded TBAML events.

- DT\_CORRELATION

### 19.5.5 Scoring

Scoring\_OTBAML is used to perform the scoring of OTBAML events. This has the following subprocess:

- Oracle Behavior Detection Event Scoring
- Oracle Behavior Detection Entity Scoring
- Oracle Behavior Detection Correlation Scoring
- Oracle Behavior Detection Pre-Case Scoring

## 19.5.6 Promote to Case

TBAML\_Promote\_To\_Case\_Decision is used to decide if an OTBAML correlation can be promoted to a case. This is based on the defined threshold limit. This has the following sub-process:

- Pre Case Promotion Rule

## 19.5.7 Create Case

Create\_Case is used to create a case if an OTBAML event is promoted to the case.

- Oracle Behavior Detection Generate Cases

Here, Level 0 is the prerequisite for Level 1 execution. Similarly, Level 1 is a prerequisite for Level 2, and so on. Sub-processes within any level can be executed in any order or it can be executed in parallel.

**Table 33: Promote\_To\_Case T2Ts**

| Level 0   | Level 1                     | Level 2                        |
|-----------|-----------------------------|--------------------------------|
| KDD_CASES | KDD_CASE_TRD_FIN_CNTRCT     | KDD_CASE_CUST_ADDRS            |
|           | KDD_CASE_TRD_FIN_CNTRCT_EVT | KDD_CASE_CUST_ACCT             |
|           | KDD_CASE_TRD_FIN_GOOD_SRVC  | KDD_CASE_CUST_EMAILS           |
|           | KDD_CASE_TRD_FIN_PARTY      | KDD_CASE_CUST_PHONS            |
|           | KDD_CASE_CUSTOMERS          | KDD_CASE_CUST_LIST_MEMBERSHIPS |
|           | KDD_CASE_DERIVED_ADDRESS    |                                |
|           | KDD_CASE_TRD_FIN_DOC        |                                |
|           | KDD_CASE_DOC_COL_MULTNR_DTL |                                |
|           | KDD_CASE_DOC_COL_CNTRCT     |                                |
|           | KDD_CASE_DOC_COL_CNTRCT_EVT |                                |
|           | KDD_CASE_DOC_COL_SHPMT_DTL  |                                |

Below is a list of few tasks, which are common for BD and TBAML applications. You can configure a common task list.

t2t\_KDD\_CASE\_CUSTOMERS  
t2t\_KDD\_CASE\_CUST\_ADDR  
t2t\_KDD\_CASE\_CUST\_ACCT  
t2t\_KDD\_CASE\_CUST\_EMAIL\_ADDRS  
t2t\_KDD\_CASE\_CUST\_PHONE  
t2t\_KDD\_CASE\_CUST\_LIST\_MEMBERSHIP  
t2t\_KDD\_CASE\_DERIVED\_ADDRESS

## 19.5.8 End Batch



TBAML\_ECM\_End\_E2E\_Batch is used for ending the batch execution for TBAML.

## 19.6 OSTDO Application Process

The following processes are used for this:

- Start Batch
- Load Data from STDO to Consolidation Area
- Correlation
- Scoring
- Promote to Case
- Create Case
- End Batch

### 19.6.1 Start Batch

STDO\_ECM\_Start\_E2E\_Batch process is used to start the batch execution to move the data from OSTDO to ECM.

### 19.6.2 Load Data from STDO to Consolidation Area

STDO\_Load\_From\_LA\_To\_CA process loads OSTDO data from the Landing area to the Consolidation area. This has the following sub-processes:

- STDO\_Event\_Load
- STDO\_Entity\_Surrogate\_Key\_Gen
- STDO\_Business\_Data\_Load
- STDO\_SUPLMTRY\_INFO
- STDO\_Evented\_Data\_Load

Here, Level 0 sub-process code execution is a prerequisite for Level 1 subprocess execution. Similarly, Level 1 sub-process code execution is a prerequisite for Level 2 sub-process execution and so on. Subprocess within a level can be executed in any order or it can be executed in parallel.

| Level 0                       | Level 1                   | Level 2               |
|-------------------------------|---------------------------|-----------------------|
| STDO_Event_Load               | STDO_EVENT_LOOKUP         |                       |
|                               | STDO_EVENT                |                       |
|                               | STDO_EVENT_BINDING        |                       |
|                               | STDO_EVENT_DETAILS        |                       |
| STDO_Entity_Surrogate_Key_Gen | BD_ACCOUNTATMDAILY_LOOKUP | STDO_EVENT_ENTITY_MAP |

| Level 0 | Level 1                       | Level 2                  |
|---------|-------------------------------|--------------------------|
|         | BD_ACCOUNTDLY_LOOKUP          | STDO_EVENT_ENTITY_MAPII  |
|         | BD_ACCOUNTTRADEDLY_LOOKUP     | STDO_EVENT_ENTITY_MAPIII |
|         | BD_ACCOUNTTRXNDLY_LOOKUP      | STDO_EVENT_ENTITY_MAPIV  |
|         | BD_ACCOUNT_GROUP_LOOKUP       |                          |
|         | BD_ACCOUNT_PEERGROUP_LOOKUP   |                          |
|         | BD_ACCT_CLIENTBANK_LOOKUP     |                          |
|         | BD_ACCT_PR_TRXN_SMR_MN_LOOKUP |                          |
|         | BD_ACCT_SMR_MNTH_LOOKUP       |                          |
|         | BD_CBPEERTRXNSMRY_LOOKUP      |                          |
|         | BD_CLIENTBANK_PEERGRP_LOOKUP  |                          |
|         | BD_CLINETBANKBSMRY_LOOKUP     |                          |
|         | BD_CUSTOMERBALANCE_LOOKUP     |                          |
|         | BD_CUSTOMERDLY_LOOKUP         |                          |
|         | BD_CUSTOMERSMRY_LOOKUP        |                          |
|         | BD_CUSTOMER_ACCOUNT_LOOKUP    |                          |
|         | STDO_ACCOUNT_LOOKUP           |                          |
|         | STDO_CUSTOMER_LOOKUP          |                          |
|         | STDO_BACK_OFFICE_TRXN_LOOKUP  |                          |
|         | STDO_CASH_TRXN_LOOKUP         |                          |
|         | STDO_MI_TRXN_LOOKUP           |                          |
|         | STDO_WIRE_TRXN_LOOKUP         |                          |
|         | BD_CUSTOMER_PRODUCT_LOOKUP    |                          |
|         | BD_DERIVED_ADDRESS_LOOKUP     |                          |
|         | BD_EMPLOYEE_ACCOUNT_LOOKUP    |                          |
|         | BD_EMPLOYEE_LOOKUP            |                          |
|         | BD_EXTERNALENTITYDLY_LOOKUP   |                          |
|         | BD_EXTERNAL_ENTITY_LOOKUP     |                          |
|         | BD_HOUSEHOLDBALDLY_LOOKUP     |                          |
|         | BD_HOUSEHOLDSMRY_LOOKUP       |                          |
|         | BD_INSTACCOUNTSMRY_LOOKUP     |                          |
|         | BD_INSTITUTION_LOOKUP         |                          |
|         | BD_INSTLACCOUNTDLY_LOOKUP     |                          |
|         | BD_INSURANCEPOLICYBAL_LOOKUP  |                          |
|         | BD_INSURANCEPOLICYDLY_LOOKUP  |                          |
|         | BD_INSURPOLICY_CUST_LOOKUP    |                          |
|         | BD_LOANSMRY_LOOKUP            |                          |

| Level 0                 | Level 1                     | Level 2 |
|-------------------------|-----------------------------|---------|
|                         | BD_LOAN_LOOKUP              |         |
|                         | BD_MANAGEDACCOUNTDLY_LOOKUP |         |
|                         | BD_MANAGEDACCOUNT_LOOKUP    |         |
|                         | BD_MARKET_CENTER_LOOKUP     |         |
|                         | BD_NETWORKLOGON_LOOKUP      |         |
|                         | BD_NTWKUSER_ACCOUNT_LOOKUP  |         |
|                         | BD_ONLINEACCOUNT_LOOKUP     |         |
|                         | BD_ONLINEACCT_ACCT_LOOKUP   |         |
|                         | BD_PEER_GROUP_LOOKUP        |         |
|                         |                             |         |
| STDO_Business_Data_Load | BD_ACCT_ATM_SMRY_DAILY      |         |
|                         | BD_ACCT_BAL_POSN_SMRY       |         |
|                         | BD_ACCT_GRP                 |         |
|                         | BD_ACCT_ID_INSTN_ID_MAP     |         |
|                         | BD_ACCT_LIST_MEMBERSHIP     |         |
|                         | BD_ACCT_PEER_GRP            |         |
|                         | BD_ACCT_PEER_TRXN_SMRY_MNTH |         |
|                         | BD_ACCT_SMRY_MNTH           |         |
|                         | BD_ACCT_SUPPLEMENTAL_ATR    |         |
|                         | BD_BACK_OFFICE_TRXN         |         |
|                         | BD_CASH_TRXN                |         |
|                         | BD_CB_LIST_MEMBERSHIP       |         |
|                         | BD_CB_PR_TRXN_SMRY_MNTH     |         |
|                         | BD_CLIENT_BANK              |         |
|                         | BD_CLIENT_BANK_PEER_GRP     |         |
|                         | BD_CLIENT_BANK_SMRY_MNTH    |         |
|                         | BD_CUST                     |         |
|                         | BD_ONLINE_ACCT_ACCT         |         |
|                         | STDO_ACCT                   |         |
|                         | STDO_ACCT_ADDR              |         |
|                         | STDO_ACCT_EMAIL_ADDR        |         |
|                         | STDO_ACCT_PHON              |         |
|                         | STDO_ACCT_RSTRN             |         |
|                         | STDO_ACCT_LIST_MEMBERSHIP   |         |
|                         | BD_CUST_ACCT                |         |
|                         | BD_CUST_ACCT_ROLE           |         |

| Level 0                | Level 1                          | Level 2 |
|------------------------|----------------------------------|---------|
|                        | BD_CUST_ADDR                     |         |
|                        | BD_CUST_CUST                     |         |
|                        | BD_CUST_EMAIL_ADDR               |         |
|                        | BD_CUST_LIST_MEMBERSHIP          |         |
|                        | BD_CUST_PHON                     |         |
|                        | BD_CUST_SMRY_MNTH                |         |
|                        | BD_CUST_SUPPLEMENTAL_ATR         |         |
|                        | BD_DERIVED_ADDRESS               |         |
|                        | BD_EMP                           |         |
|                        | BD_EMP_ACCT                      |         |
|                        | BD_EMP_ADDR                      |         |
|                        | BD_EMP_EMAIL_ADDR                |         |
|                        | BD_EMP_PHON                      |         |
|                        | BD_EXTERNAL_ENTITY               |         |
|                        | BD_EXTERNAL_ENTITY_ADDR          |         |
|                        | BD_EXTRNAL_NTTY_MMBRSHP          |         |
|                        | BD_HH_BAL_POSN_SMRY              |         |
|                        | BD_HH_SMRY_MNTH                  |         |
|                        | BD_HOUSE_HOLD                    |         |
|                        | BD_INSTL_ACCT_SMRY_MNTH          |         |
|                        | BD_INSTN_MASTER                  |         |
|                        | BD_INSURANCE_POLICY              |         |
|                        | BD_INSURANCE_POLICY_CUST         |         |
|                        | BD_INSURANCE_PRODUCT             |         |
|                        | BD_LOAN                          |         |
|                        | BD_LOAN_SMRY_MNTH                |         |
|                        | BD_MANGD_ACCT                    |         |
|                        | BD_MI_TRXN                       |         |
|                        | BD_NTCPTRY_PRFL                  |         |
|                        | BD_NVSMT_MGR                     |         |
|                        | BD_NVSMT_MGR_SMRY_MNTH           |         |
|                        | BD_ONLINE_ACCT                   |         |
|                        | BD_WIRE_TRXN                     |         |
|                        |                                  |         |
| STDO_SUPLMTRY_INFO     | Studio Supplementary Information |         |
| STDO_Evented_Data_Load | STDO_ACCT_EVENT                  |         |

| Level 0 | Level 1                        | Level 2 |
|---------|--------------------------------|---------|
|         | STDO_CUST_EVENT                |         |
|         | STDO_EMP_EMAIL_ADDR_EVNT       |         |
|         | STDO_ACCT_PR_TXN_SMRY_MN_EVNT  |         |
|         | STDO_ACCT_SMRY_MNTH_EVNT       |         |
|         | STDO_MI_TRXN_EVNT              |         |
|         | STDO_ACCT_BAL_POSN_SMRY_EVNT   |         |
|         | STDO_HH_BAL_POSN_SMRY_EVNT     |         |
|         | STDO_INSTN_MASTER              |         |
|         | STDO_BOT_EVNT                  |         |
|         | STDO_CASH_TRXN_EVNT            |         |
|         | STDO_EMP_ACCT_EVNT             |         |
|         | STDO_ACCT_PEER_GRP_EVNT        |         |
|         | STDO_NTCPTRY_PRFL_EVNT         |         |
|         | STDO_ACCT_SUPPLEMENTAL_ATR_EVN |         |
|         | STDO_WIRE_TRXN_EVNT            |         |
|         | STDO_EMP_PHON_EVNT             |         |
|         | STDO_ONLINE_ACCT_ACCT_EVNT     |         |
|         | STDO_EMP_ADDR_EVNT             |         |
|         | STDO_ACCT_ADDR_EVNT            |         |
|         | STDO_CUST_SMRY_MNTH_EVNT       |         |
|         | STDO_ONLINE_ACCT_EVNT          |         |
|         | STDO_EMP_EVNT                  |         |
|         | STDO_ACCT_RSTRN_EVNT           |         |
|         | STDO_CUST_SUPPL_ATR_EVNT       |         |
|         | STDO_ACCT_GRP_EVNT             |         |
|         | STDO_MANGD_ACCT_EVNT           |         |
|         | STDO_HH_SMRY_MNTH_EVNT         |         |
|         | STDO_CLIENT_BANK_EVNT          |         |
|         | STDO_ACCT_ATM_SMRY_DAILY_EVNT  |         |
|         | STDO_DERIVED_ADDRESS_EVNT      |         |

### 19.6.3 Correlation

This is used to perform a correlation on loaded STDO events.

- DT\_CORRELATION

### 19.6.4 Scoring

STDO\_SCORING is used to perform the scoring of OSTDO events. This has the following sub-process:

- Oracle Behavior Detection Event Scoring
- Oracle Behavior Detection Entity Scoring
- Oracle Behavior Detection Correlation Scoring
- Oracle Behavior Detection Pre-Case Scoring

### 19.6.5 Promote to Case

STDO\_Promote\_To\_Case\_Decision is used to decide if an OSTDO correlation can be promoted to a case. This is based on the defined threshold limit. This has the following sub-process:

- Pre Case Promotion Rule

### 19.6.6 Create Case

STDO\_Create\_Case is used to create a case if an OSTDO event is promoted to the case.

Following is the list of Promote\_To\_Case T2Ts:

- Oracle Behavior Detection Generate Cases

Below is the list of T2T tasks for STDO application:

- f\_generatecaseid
- f\_insertcases
- t2t\_KDD\_CASE\_ACCOUNTS
- t2t\_KDD\_CASE\_CUSTOMERS
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS
- t2t\_KDD\_CASE\_EMPLOYEES
- t2t\_KDD\_CASE\_ACCOUNT\_ADDRESS
- t2t\_KDD\_CASE\_ACCOUNT\_MANAGED
- t2t\_KDD\_CASE\_ACCOUNT\_RSTRNS
- t2t\_KDD\_CASE\_ACCT\_BAL\_POSN\_SMRY
- t2t\_KDD\_CASE\_ACCT\_EMAIL\_ADDR
- t2t\_KDD\_CASE\_ACCT\_PEER\_GRP
- t2t\_KDD\_CASE\_ACCT\_PHON
- t2t\_KDD\_CASE\_ACCT\_SMRY\_MNTH
- t2t\_KDD\_CASE\_ACCT\_SUPPL\_ATTR
- t2t\_KDD\_CASE\_ACT\_PEER\_TRXN\_SMRY
- t2t\_KDD\_CASE\_ACCT\_NTCPTRY\_PRFL
- t2t\_FCC\_CASE\_ACCT\_LIST\_MBRSP
- t2t\_KDD\_CASE\_CLIENT\_BANK
- t2t\_KDD\_CASE\_CLIENT\_BANK\_SMRY\_MNTH
- t2t\_KDD\_CASE\_CUST\_ADDR

- t2t\_KDD\_CASE\_CUST\_EMAIL\_ADDRS
- t2t\_KDD\_CASE\_CUST\_LIST\_MEMBERSHIP
- t2t\_KDD\_CASE\_CUST\_PHONE
- t2t\_KDD\_CASE\_CUST\_SUPPL\_ATTR
- t2t\_KDD\_CASE\_CUST\_SMRY\_MNTH
- t2t\_KDD\_CASE\_EMP\_ACCT
- t2t\_KDD\_CASE\_EMP\_ADDR
- t2t\_KDD\_CASE\_EMP\_EMAIL\_ADDR
- t2t\_KDD\_CASE\_EMP\_PHONE
- t2t\_KDD\_CASE\_INSTL\_ACCT\_SMRY\_MNTH
- t2t\_KDD\_CASE\_INSTN\_MASTER
- t2t\_KDD\_CASE\_INSURANCE\_POLICY
- t2t\_KDD\_CASE\_INSURANCE\_PRODUCT
- t2t\_KDD\_CASE\_NTWK\_USER\_ACCT\_MAP
- t2t\_KDD\_CASE\_ONLINE\_ACCT
- t2t\_KDD\_CASE\_ONLINE\_ACCT\_ACCT
- t2t\_KDD\_CASE\_PEER\_GRP
- t2t\_KDD\_CASE\_CB\_LIST\_MEMBERSHIP
- t2t\_KDD\_CASE\_CB\_PEER\_TXN\_SMRY\_MNTH
- t2t\_KDD\_CASE\_CLIENT\_BANK\_PEER\_GRP
- t2t\_KDD\_CASE\_EXTERNAL\_ENTITY
- t2t\_KDD\_CASE\_EXTERNAL\_ENTITY\_MEMBERSHIP
- t2t\_KDD\_CASE\_HH\_ACCT\_BAL\_SMRY
- t2t\_KDD\_CASE\_HH\_SMRY\_MNTH
- t2t\_KDD\_CASE\_INSURANCE\_PLCY\_CUST
- t2t\_KDD\_CASE\_NVSMT\_MGR\_SMRY\_MNTH
- t2t\_KDD\_CASE\_NVSMT\_MGR
- t2t\_KDD\_CASE\_ACCT\_ID\_INSTN\_ID\_MAP
- t2t\_KDD\_CASE\_ACCT\_GRP
- t2t\_KDD\_CASE\_WIRE\_TRXN
- t2t\_KDD\_CASE\_CASH\_TRXN
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS\_CASH\_TRXN
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS\_MI\_TRXN
- t2t\_KDD\_CASE\_DERIVED\_ADDRESS\_WIRE\_TRXN
- t2t\_KDD\_CASE\_BACK\_OFFICE\_TRXN
- t2t\_KDD\_CASE\_CUST\_IMP\_LICENSE\_GOODS

- t2t\_KDD\_CASE\_CUST\_IMP\_LICENSE
- t2t\_KDD\_CASE\_DOC\_COLL\_CNTRCT
- t2t\_KDD\_CASE\_DOC\_COLL\_CNTRCT\_EVENT
- t2t\_KDD\_CASE\_DOC\_COLL\_DISCRP\_DTL
- t2t\_KDD\_CASE\_DOC\_COLL\_INVOICE
- t2t\_KDD\_CASE\_DOC\_COLL\_MULTNR\_DTL
- t2t\_KDD\_CASE\_DOC\_COLL\_SHPMT\_DTL
- t2t\_KDD\_CASE\_EXTERNAL\_INSURANCE\_PLCY
- t2t\_KDD\_CASE\_EXTERNAL\_ORG
- t2t\_KDD\_CASE\_TRADE\_FIN\_SWIFT\_MSG
- t2t\_KDD\_CASE\_TRADE\_FIN\_PARTY
- t2t\_KDD\_CASE\_TRADE\_FIN\_GOOD\_SRVC
- t2t\_KDD\_CASE\_TRADE\_FIN\_DRAFT
- t2t\_KDD\_CASE\_TRADE\_FIN\_DOC
- t2t\_KDD\_CASE\_TRADE\_FIN\_CNTRCT
- t2t\_KDD\_CASE\_TRADE\_FIN\_BRKRGE\_DIST
- t2t\_KDD\_CASE\_TRADE\_FIN\_BRKRGE
- t2t\_KDD\_CASE\_TRADE\_FIN\_ACCT
- t2t\_KDD\_CASE\_TRADE
- t2t\_KDD\_CASE\_ORDER
- t2t\_KDD\_CASE\_MI\_TRXN
- t2t\_KDD\_CASE\_LOAN\_ACCOUNT
- t2t\_KDD\_CASE\_LOAN
- t2t\_KDD\_CASE\_LOAN\_SMRY\_MONTH
- t2t\_KDD\_CASE\_INSTRUCTION
- CASE\_COMPLETION\_FLAG
- CASE\_ASSIGNMENT

### 19.6.7 End Batch

STDO\_ECM\_End\_E2E\_Batch is used for ending the batch execution for Studio.

## 19.7 Third-party Application Process

The following processes are used for this:

- [Start Batch](#)
- [Load Data from Third-party to ECM](#)
- [Correlation](#)



- Scoring
- Promote to Case
- Create Case
- End Batch

### 19.7.1 Start Batch

ECM Start E2E Batch process is used to start the batch execution to move the data from Third-party application to ECM.

### 19.7.2 Load Data from Third-party to ECM

Load\_From\_LA\_To\_CA process loads the data from the Landing area to the Consolidation area. Here, the data will populate to the Landing area from the Staging area. This has the following four sub-processes:

- Loading Events: See Level 1 and 2 in [Table 34](#)
- Entity Surrogate Key Generation: See Level 3 and 4 in [Table 34](#)
- Evented Data Load: See Level 5 in [Table 34](#)
- Derive Wire, Cash and MI Transaction: See Level 6 in [Table 34](#)

[Table 34](#) contains the list of Third-party sub-process codes.

Here, Level 1 sub-process code execution is a prerequisite for Level 2 subprocess execution. Similarly, Level 2 sub-process code execution is a prerequisite for Level 3 sub-process execution and so on. Subprocess within a level can be executed in any order or it can be executed in parallel.

**BD\_ENTITY\_SUP\_INFO** sub-process code has to be executed after the business data population (see the **Business Metadata Movement**).

**Table 34: Third-party sub-process codes**

| Level 1               | Level 2                                                                | Level 3                                                                                                                                                                                                                   | Level 4                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Level 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Level 6                                                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| t2t_LOOK-<br>UP_EVENT | t2t_EVENTS<br>t2t_FC-<br>C_EVENT_BINDING<br>t2t_FCC_EVENT_-<br>DETAILS | t2t_LOOKUP_AC-<br>COUNT<br>t2t_LOOKUP_CUS-<br>TOMER<br>t2t_LOOKUP_EM-<br>PLOYEE<br>t2t_LOOKUP_EX-<br>TERNAL_ENTITY<br>t2t_LOOKUP_INSTI-<br>TUTION_CB<br>t2t_LOOKUP_AC-<br>COUNT_GROUP<br>t2t_LOOKUP_BOT<br>t2t_LOOKUP_FOT | t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_ACCOUNT<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_CUSTOME<br>R<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_EMPLOYE<br>E<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_EXTERNA<br>L_ENTITY<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_CLIENT_B<br>ANK<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_ACCOUNT<br>_GROUP<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_FOTWIRE<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_FOTCASH<br>t2t_FC-<br>C_EVENT_ENTI-<br>TY_MAP_FOTMI | t2t_EVENTED_ACCT<br>t2t_EVENT-<br>ED_ACCT_ADDR<br>t2t_EVENT-<br>ED_ACCT_RSTRN<br>t2t_EVENTED_CUST<br>t2t_EVENTED_-<br>CUST_CRED-<br>IT_RTNG<br>t2t_EVENTED_EMP<br>t2t_EVENT-<br>ED_EMP_ACCT<br>t2t_EVENT-<br>ED_EMP_ADDR<br>t2t_EVENT-<br>ED_EMP_E-<br>MAIL_ADDR<br>t2t_EVENT-<br>ED_NTCPTRY_PR-<br>FL_ACCT<br>t2t_EVENT-<br>ED_NTCPTRY_PR-<br>FL_CUST<br>t2t_EVENT-<br>ED_ACCT_BAL_POS<br>N_SMRY<br>t2t_EVENT-<br>ED_ACCT_GRP<br>t2t_EVENTED_AU-<br>TO_QUOTE<br>t2t_EVENT-<br>ED_BACK_OF-<br>FICE_TRXN<br>t2t_EVENTED_CLI-<br>ENT_BANK<br>t2t_EVENT-<br>ED_CORP_ACTN<br>t2t_EVENTED_-<br>CUST_ADDR<br>t2t_EVENTED_-<br>CUST_SUPPLEMEN-<br>TAL_ATTR<br>t2t_EVENTED_DE-<br>RIVED_ADDRESS<br>t2t_EVENT-<br>ED_EMP_PHON<br>t2t_EVENTED_EX-<br>TERNAL_ENTITY<br>t2t_EVENTED_INST-<br>N_MASTER<br>t2t_EVENT-<br>ED_MANGD_ACCT<br>t2t_EVENTED_ON-<br>LINE_ACCT<br>t2t_EVENTED_ON-<br>LINE_ACCT_ACCT<br>t2t_EVENT-<br>ED_PEER_GRP | t2t_FCC_TRXN_PIV-<br>OT_TRANS-<br>FORM_DS<br>t2t_FCC_TRX-<br>N_BNK2BNK_FL_DS<br>t2t_FCC_TRX-<br>N_PARTY_X-<br>REF_BOT<br>t2t_FCC_TRX-<br>N_PARTY_X-<br>REF_BOT_OFFSET<br>t2t_FCC_TRX-<br>N_PARTY_XREF_-<br>FOT |

**Table 34: Third-party sub-process codes**

| Level 1 | Level 2 | Level 3                                                                                                                                                                        | Level 4 | Level 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Level 6 |
|---------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|         |         | Stage to CA<br>Customer<br>Account Lookup<br>Stage to CA<br>Customer<br>Customer<br>Lookup<br>Stage to CA<br>Employee Account<br>Lookup<br>Stage to CA Account<br>Daily Lookup |         | Stage to CA Account<br>Stage to CA Account<br>Address Email<br>Address<br>Stage to CA Account<br>Address Email<br>Phone<br>Stage to CA Account<br>Address<br><br>Stage to CA<br>Customer<br>Stage to CA<br>Customer<br>Account<br>Stage to CA<br>Customer<br>Address<br>Stage to CA<br>Customer<br>Country<br>Stage to CA<br>Customer Email<br>Address<br>Stage to CA<br>Customer Phone<br>Stage to CA<br>Customer<br>Supplemental<br>Attribute<br>Stage to CA Customer<br>to Customer Relation<br><br>Stage to CA<br>Correspondent<br>Bank<br>Stage to CA Back<br>Office Transaction<br>Stage to CA Derived<br>Address<br>Stage to CA Derived<br>Entity<br>Stage to CA Derived<br>Entity Link<br>Stage to CA Derived<br>Entity to Derived<br>Address<br>Stage to CA Front<br>Office Transaction<br>Party<br>Stage to CA<br>Financial<br>Institution<br>Stage to CA<br>Employee<br>Stage to CA<br>Employee Address<br>Stage to CA<br>Employee Email<br>Address<br>Stage to CA<br>Employee Phone<br>Stage to CA Front<br>Office Transaction |         |

List of Processes and Tasks  
Third-party Application Process

---

|  |  |  |  |                                 |  |
|--|--|--|--|---------------------------------|--|
|  |  |  |  | Stage to CA<br>Employee Account |  |
|--|--|--|--|---------------------------------|--|

**Table 34: Third-party sub-process codes**

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5                                                                                                                                                                                                                      | Level 6 |
|---------|---------|---------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|         |         |         |         | BD_ENTITY_-<br>SUP_INFO<br>This sub-process code has to be executed after the business data population (see the Business Metadata Movement).<br>This sub-process code has to be executed after the business data population. |         |

### 19.7.3 Correlation

Correlation is used to perform correlation on loaded BD events. This has the following two tasks:

- PGX\_CORRELATION
- BD\_CORRELATION

### 19.7.4 Scoring

This is used to perform the scoring of third-party events, entities, and correlation. This has the following sub-process:

- Entity\_Scoring
- Event\_Scoring
- Correlation\_Scoring
- Pre\_Case\_Scoring

### 19.7.5 Promote to Case

Promote\_To\_Case\_Decision is used to decide if a Third-party correlation can be promoted to a case. This is based on the defined threshold limit.

### 19.7.6 Create Case

Create\_Case is used to create a case if a third-party event is promoted to the case.

Following is the list of Promote\_To\_Case T2Ts:

- f\_generatecaseid
- f\_insertcases
- Promote\_To\_Case T2Ts (see the [Table](#))
- CASE\_COMPLETION\_FLAG

### 19.7.7 End Batch

ECM\_End\_E2E\_Batch is used for ending the batch execution.



## 20 Configuring Parallel Graph AnalytiX (PGX) Correlation

This appendix describes the configuration activities for Parallel Graph AnalytiX (PGX) Correlation. This appendix covers the following sections:

- [Overview](#)
- [Pre-requisites](#)

### 20.1 Overview

PGX is a toolkit for graph analysis - both running algorithms such as PageRank against graphs and performing SQL-like pattern-matching against graphs, using the results of algorithmic analysis. Algorithms are parallelized for extreme performance. The PGX toolkit includes both a single-node in-memory engine and a distributed engine for extremely large graphs. Graphs can be loaded from a variety of sources including flat files, SQL and NoSQL databases, and Apache Spark and Hadoop; incremental updates are supported.

**NOTE**

PGX based correlation is not supported on AIX and Solaris SPARC OS. You can use Java-SQL correlation, which is a functionally equivalent module to PGX based correlation.

### 20.2 Pre-requisites

Below is the list of pre-requisites:

1. Java 8 is mandatory as PGX is the default.
2. `Initiatecorrelation.sh` should be triggered once before calling batch. This configures the correlation module. This instruction already there as part of the old correlation module.
3. `<installed path>/ficdb/lib_PGX/ pgxConfig.cfg` where k hop should be configured by the user between 2 and 10. The default value is 5.

## 21 FAQ

This section of the document consists of resolution to the frequently asked questions during the configuration.

### **What should be done if the batch fails during the initial task?**

Check if V\_GROUP\_NAME has been passed correctly in the START batch and Backend servers are UP (such as ICC as well as agent servers)

### **What should be done if the second/third task is struggling to start?**

Login to Config Schema and execute the following query:

```
Select * from PR2_PROCESS_TASK_PARAMETER
```

Make sure that the V\_TASK\_PARAMETER\_VALUE column has the correct SOURCENAME, and also LOAD- TYPE is correct.

### **What should be done if any process inside the batch fails?**

Follow these steps:

1. Navigate to `$FIC_HOME/ficdb/log` and check the logs, and resolve the issues.
2. Once the issue is resolved, then navigate to Common Tasks UI and select Operations.
3. Select Batch execution and Restart the batch which is failed.

### **What should be done if the batch needs a rerun?**

Remove all the CA tables data for the MISDATE and Data Origin. Start a new batch again.

There can be cases where the source schema is different but data resides in the same instance. In this case, `Grant select to all user tables that need to be provided to the ECM Atomic schema from the source schema.`

### **What should be done if Correlation fails in the first-time run?**

Make sure to run the `correlation.sh` file. For more information, see the [Pre-batch Execution Configuration](#)

### **Can I run the Batch again if data-loaded to CA went wrong?**

- Yes, you can trigger a new batch. Before running the batch, you must clear all the data from all business, evented, and event tables for that MIS Date and Data Origin.
- Yes, you can trigger a new batch. Before that, you must remove the data from the Event tables. This will take more time than the above option.

What should I do, if I have loaded a few wrong records into a few business tables?



- You can trigger a new batch. Before running the batch, you must clear all the data from all business, evented and event tables for that MIS Date and Data Origin
- You can remove the data from the business tables for MIS Date and Data Origin, then run the batch only including the process for which you need to correct the data, and then end this batch. This will take more time than the above option.

### **How can I create new attributes?**

To understand how to create new attributes, see the ECM Case Type Attributes section.

### **How do I manage the parameters of attributes?**

Setting the parameters for attributes is completed in the database. The parameters available are:

- Manual create case page
- Case search page
- Case Search results page
- Display page of Case Context
- Editable page of Case Context

To understand how to modify these parameters, see the ECM Case Type Attributes section.

### **Can I set the order of the tabs to define how they are seen in a case?**

Yes. In the Case of Type Designer, you can drag and drop the entities tabs to the order you desire and that will be replicated in the individual case. At this time individual users are not allowed to re-order the tab.

### **How do I define the tab a user lands on when entering the case details?**

Whichever entity you have defined as the furthest to the left in the Case Entities section of that Case Type will be the tab a user lands on when they access the Case Details.

### **What is the Event Details tab?**

The Event Details tab displays all the events associated with the case. Unless specified otherwise these would be the ones created in FCCM Behavior Detection or external events ingested into the ECM landing area. Other products have similar tabs which are labeled accordingly in the Case Entities section for each Case Type. It is recommended that these tabs be the default landing tab for users when they access the case details.

### **Can I deactivate a case type or case class?**

Not available in the current version.

### **Can I rename tabs?**

Currently, individual users cannot rename their tabs. However, it is possible to change the name of the tab or make it different from what is in Case Designer. Case Designer tab names pull from KDD\_CASEENTITY\_MASTER. The Case UI pulls from AAI\_FF\_FORMS\_CONTAINERS\_TL

**Can the business entities that I see in a case be dependent on the types of events associated with the case and not explicitly defined in the Case Type?**

The business entities displayed are only those defined in the case type definition. In previous versions of ECM, some tabs were displayed dynamically based on if the focus of an event contains those entities. This feature will be reserved for future releases.

**What happens if I change the attribute and entity configuration of a case type for a case type which is currently active?**

The updated case type will apply to all cases of that type. Both those currently active and all new cases.

*What happens if I change the underlying PMF workflow definition for a case type which is currently active?*

For more information, see the PMF section.