

Oracle® FLEXCUBE Investor Servicing Development Workbench - Notifications



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Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Prerequisite](#)
- [Related Resources](#)

Purpose

This manual is designed to help FLEXCUBE Application developers/users to familiarize with ORACLE FLEXCUBE Development Workbench for Investor Servicing.

Audience

This document is intended for FLEXCUBE Application developers/users that use Development Workbench to develop various FLEXCUBE components.

To Use this manual, you need conceptual and working knowledge of the below:

Table 1 Proficiency and Resources

Proficiency	Resources
FLEXCUBE Functional Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Technical Architecture	Training programs from Oracle Financial Software Services.
FLEXCUBE Object Naming Conventions	Development Overview Guide

Table 1 (Cont.) Proficiency and Resources

Proficiency	Resources
Working knowledge of Web based Applications	Self-Acquired
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents
Working knowledge of PLSQL and SQL Language	Self-Acquired
Working knowledge of XML files	Self-Acquired

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches](#), [Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Prerequisite

Specify **User ID** and **Password**, and log in to **Home Screen**.

Related Resources

The functions of ORACLE FLEXCUBE Development Workbench for Investor Servicing system is organized into various guides, each discussing a component.

For more information, see these Open Development Tool documents:

- *Open Development Tool Installation*
- *Development Workbench - Getting Started*
- *Development Workbench - Administration*
- *Development Workbench - Screen Development I*
- *Development Workbench - Screen Development II*
- *Development Workbench - Screen Customizer*
- *Development Workbench - Bulk Generation*
- *Development Workbench - Source Upgrade*
- *Development Workbench - Tracking Changes*
- *Child and Screen Childs - Concept and Design*
- *Development of Maintenance Form*
- *Development of Online Form*
- *Development of Call Form*
- *Development of Launch Forms and Other Screens*
- *Development of Dashboard Form*
- *Development Workbench Service XML Development*
- *Development Workbench Performance Tuning Enhancements*
- *Development Workbench - Rest Services Development*

1

Notification – Getting started

This topic provides an overview of the Notification framework in FLEXCUBE UBS.

Notification

Notification framework in FLEXCUBE UBS is used to communicate the business event that happened in FLEXCUBE UBS to external systems. Depending upon the event, the XML message is pushed to the external system's asynchronous Queues for their consumption.

Notification Trigger

Notification Triggers is developed to recognize the event and then invoke the notification process. This trigger is developed using Development Workbench.

- [Notification Development](#)
This topic provides an overview of the Notification Development process.
- [Generate Notification Trigger](#)
This topic provides the systematic instructions to generate new or modify the existing Notification Trigger.
- [Create Notifications](#)
This topic provides the systematic instructions to generate new or modify the existing Notification.
- [Deploy Notification](#)
This topic provides the systematic instructions to deploy Notification.
- [Trigger and Test Notification](#)
This topic provides the systematic instructions to trigger and test the notification.

1.1 Notification Development

This topic provides an overview of the Notification Development process.

Prerequisite for Notification development and testing

Following are the prerequisite for notification development:

- Target FLEXCUBE Environment with Notification framework installed.
- Development Workbench link mapped to the FLEXCUBE environment.
- Required Query Web services developed and tested.

Figure 1-1 Architecture- Notification Development

Notification specification

Identify the notification requirement as below:

- What is the Notification function ID name for RAD XML (the Third character should be N)?

- What is the Notification code?
- What is the Base table in FLEXCUBE UBS that triggers the notification?
 - What operation at base table triggers (insert/update/delete)?
 - What is the where clause for the filter?
- What is the query Web service to be used?
 - What is the operation?
 - What are the tags required?

For Example:

- Notification function ID name – STNCUMOD
- Notification code – NOTIF_CA_CUSTACC_MOD
- Base table - STTM_CUST_ACCOUNT
 - Operation – DELETE
 - Filter – Account class type in (S,U)
- Web service to be used – FCUBSAccService
 - Operation – QueryCustAcc
 - Request node – Cust-Account-IO

Notification XML development

Notification RAD XML development creates the following files:

- RAD XML
- SPC
- SQL
- Static Data

Notification Process

There will be one trigger for the base table of notification and in case of multiple notifications sharing the same base table, there will be no new triggers created. Instead, the same trigger created on the base table will be reused. This approach reduces the number of triggers being used for notifications.

Development process in Development Workbench

The notification development process in Workbench is split into two steps:

1. Notification Triggers
2. Notification Filter Procedure

The first step is to create notification triggers for base tables. The trigger generated from Workbench will be inserting key details into a static notification log table. The following details will be captured:

- Trigger code: A unique value for a notification trigger.
- Base Table: The base table on which, the trigger is built.
- When Clause: A simple when clause for the notification trigger.

The second step is to capture the details of notifications and generate the notification filter procedure. The following details are captured:

- Notification code: A unique value to identify a notification.
- Description: Meaningful description of the notification.
- Gateway Service

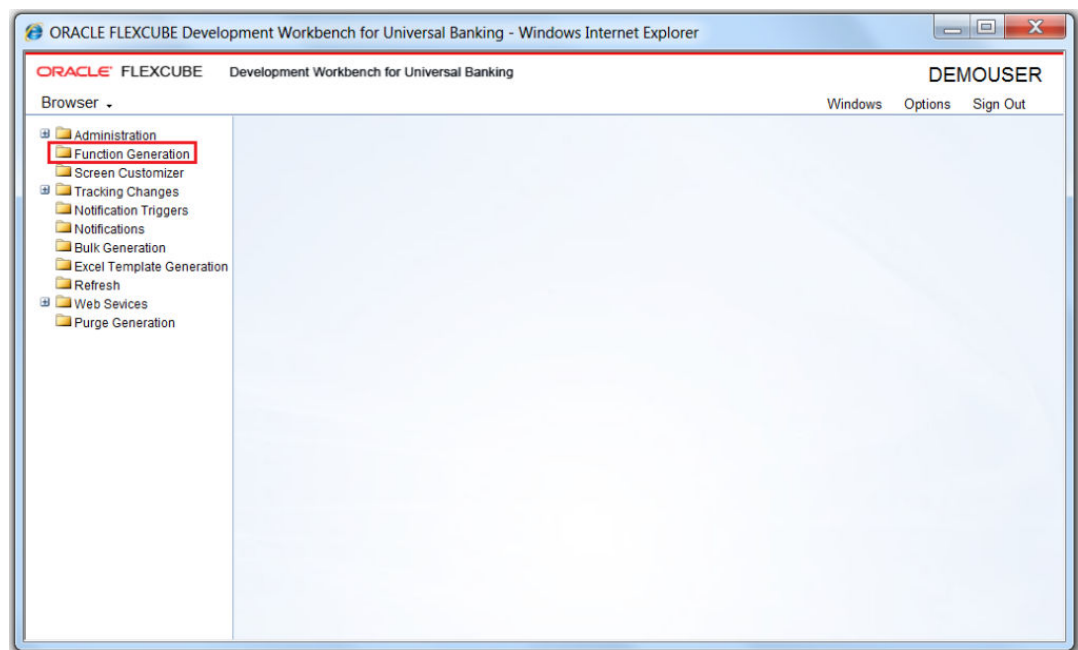
1.2 Generate Notification Trigger

This topic provides the systematic instructions to generate new or modify the existing Notification Trigger.

1. Log in to the Development Workbench.

The **Development Workbench For Universal Banking** screen displays.

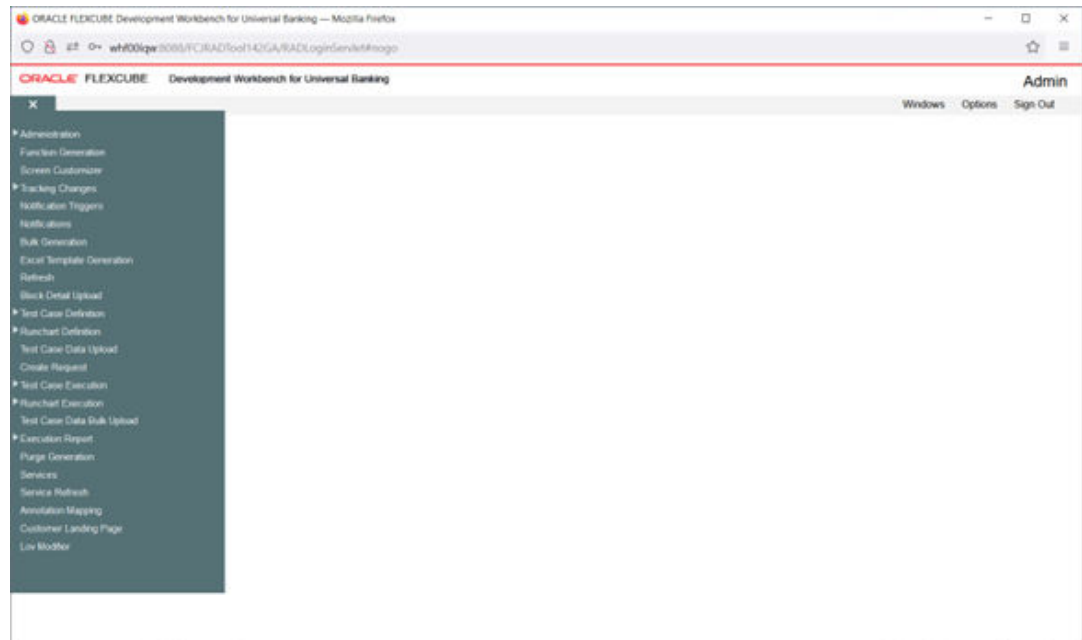
Figure 1-2 Development Workbench For Universal Banking



2. Click the **Notification Triggers** option under the **Browser** menu.

The **Notification Trigger** screen displays.

Figure 1-3 Notification Triggers



Notification Trigger has two options:

- Add a New Trigger
- Modify the Existing one

Figure 1-4 Notification Trigger

3. Click the **New** icon to specify the details in the **Notification Trigger** screen and save the notification trigger to add a new Notification Trigger.
4. On the **Notification Trigger - New** screen, specify the fields.

For more information on this, refer to the field description table.

Table 1-1 Notification Trigger - New

Field	Description
Trigger Code	A unique value for a notification trigger. The naming convention should start with TRG_XXXX . This is a mandatory field. This attribute signifies the trigger code created as part of the trigger creation step in OTD. Each notification will be linked to a trigger code.
Description	This is an information field. Specify a meaningful description of Trigger.
Firing Time	Specify when the trigger needs to be fired. The user can create only Before and After triggers for tables. INSTEAD OF triggers are only available for views; typically they are used to implement view updates. (After/Before).

Table 1-1 (Cont.) Notification Trigger - New

Field	Description
Each Record	Specify for each row required or not. If For Each Row option is specified, the trigger is row-level; otherwise, the trigger is statement-level. (Yes/No)
Base Table	The base table on which, the trigger is built. This is a mandatory field. Select a valid table from available LOV next to the field.
Pk Cols	Enter Primary key fields of table in tilde (~) separated format. This is a mandatory field.
Pk Types	Enter the Primary key type of the corresponding primary key field. This is a mandatory field.
Selected Columns and Data Types	Defunct
Trigger When Clause	A simple when clause for the notification trigger. A trigger restriction can be specified in the WHEN clause, enclosed by parentheses. The trigger restriction is a SQL condition that must be satisfied for Oracle to fire the trigger. This condition cannot contain sub queries. Without the WHEN clause, the trigger is fired for each row.
Notification Codes	If the trigger is associated with a specific notification code, then the particular notification code has to be provided in the field. If the trigger is shared across many Notifications, the field can be left empty.

5. Click the **Generate** button to generate the new Notification Trigger.

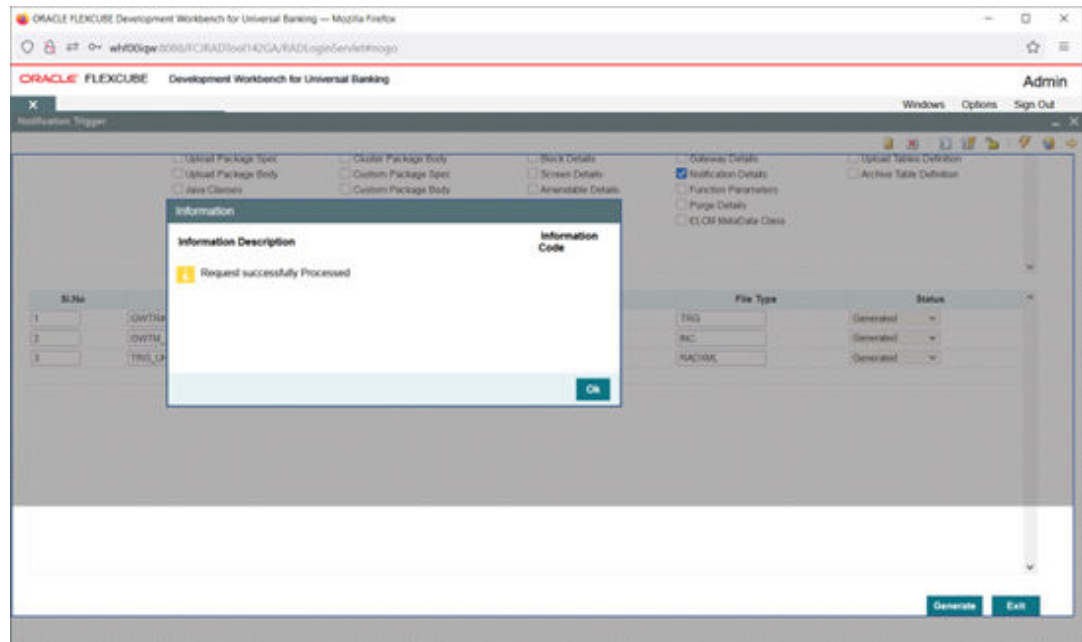
On successful save, **Notification Trigger** generates two files:

- gwtr#_<trg-code>.trg
- GWTM_NOTIFICATION_TRIGGERS__<trg-code>.INC

And the user needs to compile them in FLEXCUBE schema.

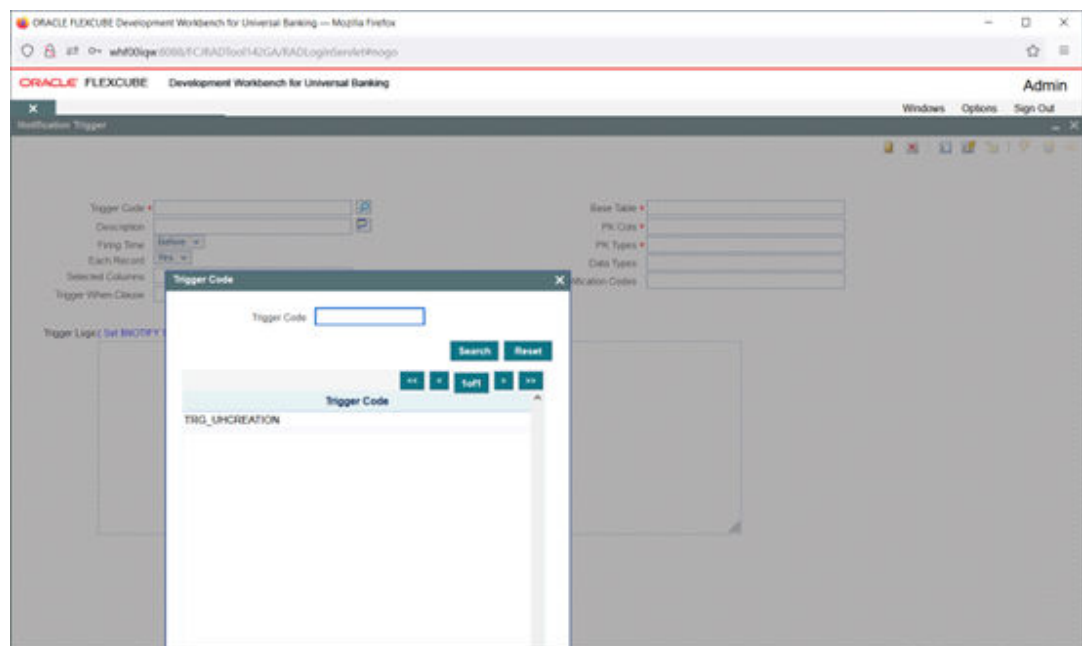
The **Information** window displays with confirming the message of successful generation of new Notification Trigger.

Figure 1-5 New Notification Trigger



6. Click the **Browse** icon to modify the details in the **Notification Trigger** screen.
The **Notification Trigger** screen displays.
7. On the **Notification Trigger** screen, specify the trigger to be modified in the **Trigger code** field.
The **Trigger Code** window displays.

Figure 1-6 Trigger Code



8. Specify the trigger to be modified in the **Trigger code** field and click the **Search** button.

9. Select the **Trigger Code** from the list.

The **Notification Trigger** screen displays with the selected **Trigger code**.

Figure 1-7 Notification trigger_Modification- Entering values

Oracle Flexcube Development Workbench for Universal Banking — Mozilla Firefox

whf001gw/0055/FCRAD/Sec142GA/RADLoginServlet#no

ORACLE FLEXCUBE Development Workbench for Universal Banking

Admin

Windows Options Sign Out

Notification Trigger

Trigger Code: TRIG_UNHOLDREAR

Description: Trigger On Untholder Table for new and modify

Firing Time: After

Each Record: Yes

Selected Columns:

Trigger When Clause: (new_auth_stat='R')

Base Table: UNTHOLDERIDBL

PK Code: UNTHOLDERID

PK Type: UNCHARG

Data Type: NOTIF_UNTHOLDER

Notification Codes: NOTIF_UNTHOLDER

Trigger Logic: Set NOTIFY To Y/N

```

IF (old_auth_stat='N') THEN
    UPDATE UNTHOLDERID
    SET auth_stat='R';
ELSE
    UPDATE UNTHOLDERID
    SET auth_stat='R';
END IF;
    
```

10. Specify the new details to modify the existing one and save the Notification Trigger.

The **Information** window displays with confirming the message of successful modification of the Notification Trigger.

Figure 1-8 Notification trigger_Modification - Successful Generation

Oracle Flexcube Development Workbench for Universal Banking — Mozilla Firefox

whf001gw/0055/FCRAD/Sec142GA/RADLoginServlet#no

ORACLE FLEXCUBE Development Workbench for Universal Banking

Admin

Windows Options Sign Out

Notification Trigger

Information

Information Description: Request successfully Processed

Information Code:

OK

File Type Status

File Type	Status
TRIG	Generated
PK	Generated
RADTRIG	Generated

Generate Exit

1.3 Create Notifications

This topic provides the systematic instructions to generate new or modify the existing Notification.

1. Log in to the Development Workbench.

The **Development Workbench For Universal Banking** screen displays.

2. Click the **Notifications** option under the **Browser** menu.

The **Notification Maintenance** screen is used to create a new notification or modify an existing notification, here notification information gets captured for notification codes and the user needs to save notification details into XML.

The **Notification Maintenance** screen displays.

Figure 1-9 Notification Maintenance

3. On the **Notification Maintenance** screen, specify the fields.

Table 1-2 Notification Maintenance- Field Description

Field	Description
Action	Select either New or Load action. The New option is to create a new notification and the Load option is used to modify the existing one.
Save XML Path	Specify the path to save notification XML. This would be considered only if the Save Mode is Client and Work Directory specified as \$CURRENT_DIRECTORY .

Table 1-2 (Cont.) Notification Maintenance- Field Description


Field	Description
Notification Function	<p>Specify the notification function-id name.</p> <div>  Note: Naming Conventions- Notification Function must have maximum 8 characters and the 3rd letter must be N. </div> <p>For Example: FTNCONON</p>
Notification Code	<p>Enter the notification code to which we need to capture values. This is a mandatory field.</p> <p>Note: Recommended Convention for Notification Codes NOTIF_<Module Code>_<Description> For Example: NOTIF_LD_CONTRACT This is the notification indicating that an LD contract has been created/modified.</p>
Description	<p>This is an information field.</p> <p>The description of the notification has to be provided in the field.</p>
Module	This attribute signifies the module on which the notification is based.
Module Description	<p>This is an information field.</p> <p>Module Description that would be defaulted from Module LOV.</p>
Notification XSD	<p>Notification XSD name will have to be provided in the corresponding Field.</p> <p>Note: The naming convention to be followed while naming Notification XSD is as follows: [Module Name] – [Notification Description] – Notif.xsd For Example: FT-Contract-Notif.xsd The Notification XSD has to be provided only if no Gateway Web Service Query Operation is configured to the Notification.</p>
Base Table	Select the base table on which trigger needs to be applied.
Firing Time	Indicates the Operation on the base Table for which Notifications have to be sent. Options available are Insert , Update , or both.
Filter Type	<p>This attribute can take the following values.</p> <ul style="list-style-type: none"> a. Where Clause b. Plsql Block
Pk Cols	Enter Primary key columns of the Base Table.
Pk Types	<p>Enter the Primary key field Data Types.</p> <p>Provide details of Gateway Service, Operation, Type XSD Name, and Full-Screen Reply if a Query Web Service has to be mapped to the Notification.</p>
Gateway Operation	The gateway operation name to execute the query for the mentioned Service.
Gateway Service	The gateway service is to be used to get the full-screen response.
Gateway IO Request	The gateway IO request node to be used in querying operations.

Table 1-2 (Cont.) Notification Maintenance- Field Description

Field	Description
Type XSD Name	This field has to be entered if Notification is mapped to a Service and Request. The name of the Master Type XSD for the service and operation has to be provided here. This can be found in the included portion of the Request Msg XSD of particular Service-Operation. For Example: LC-Contract-Types.xsd
Full screen Reply	This attribute decides whether a full screen or primary key notification response is to be sent. This is applicable only if gateway Service details are provided.
HO only	This attribute is used to send notifications only from the head office.
Filter Logic	The filter logic decides whether the notification needs to be sent or not. This can be a simple where-clause on the base table or a complex pl/sql block.
Web service Tags	The columns selected from the base table as part of web service tags will be used to send the full-screen notification response. These tags define the elements of Notification XML when no Query service is mapped to it.

4. Specify the details in the **Notification Maintenance** screen and save it.
The **Generate Rad Files** screen displays.

Figure 1-10 Generate Rad Files

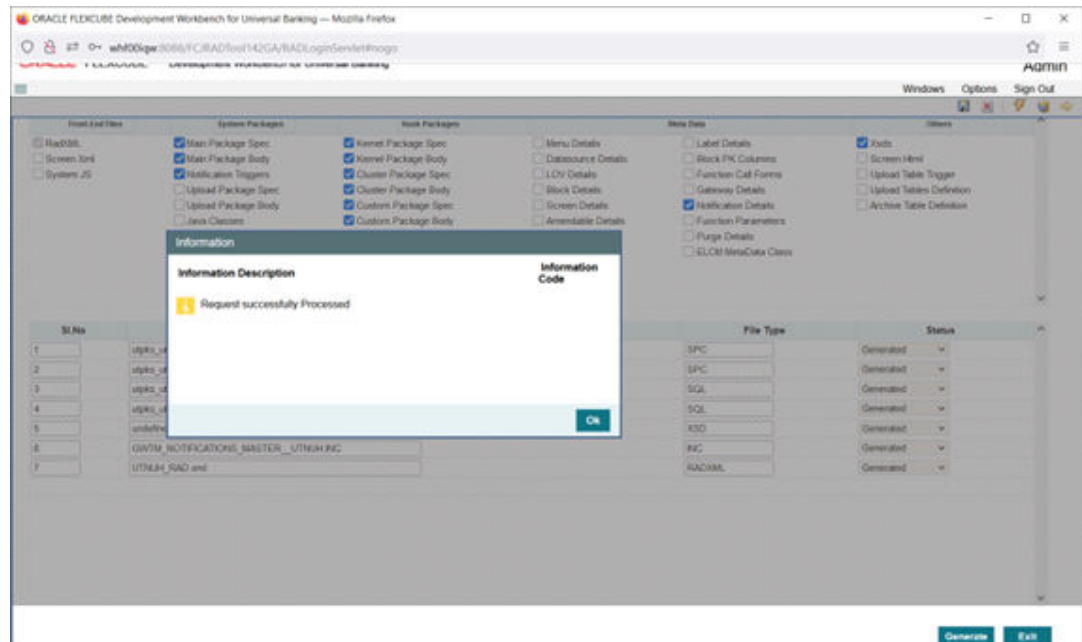
The screenshot shows the 'Generate Rad Files' window in the Oracle Flexcube Development Workbench. The window has a title bar and a menu bar with 'Windows', 'Options', and 'Sign Out'. The main content area is divided into several sections:

- Front End Files:** Includes checkboxes for 'RadXML', 'Screen XML', and 'System JS'.
- System Packages:** Includes checkboxes for 'Main Package Spec', 'Main Package Body', 'Notification Triggers', 'Upload Package Spec', 'Upload Package Body', and 'Java Classes'.
- Hook Packages:** Includes checkboxes for 'Kernel Package Spec', 'Kernel Package Body', 'Cluster Package Spec', 'Cluster Package Body', and 'Custom Package Body'.
- Meta Data:** Includes checkboxes for 'Menu Details', 'Data source Details', 'LOV Details', 'Block Details', 'Screen Details', 'Amendable Details', 'Call form Details', 'Summary Details', 'XSD Details', 'Label Details', 'Block PK Columns', 'Function Call Forms', 'Gateway Details', 'Notification Details', 'Function Parameters', 'Purge Details', and 'ELCM MetaData Class'.
- Others:** Includes checkboxes for 'Xods', 'Screen HTML', 'Upload Table Trigger', 'Upload Table Definition', and 'Archive Table Definition'.

Below these sections is a table with columns: 'Sl.No', 'File Name', 'File Type', and 'Status'. At the bottom right, there are 'Generate' and 'Exit' buttons.

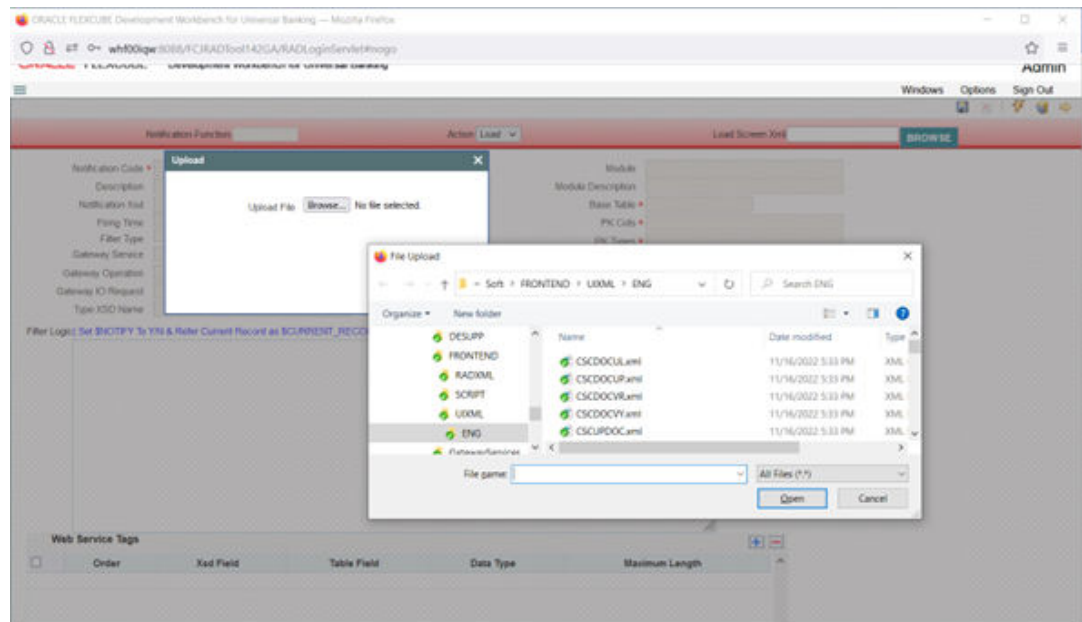
5. Select the Rad files and click the **Generate** button.
The **Information** window displays confirming the successful generation of Notification.

Figure 1-11 Notification Screen Generation Successful



6. On the **Notification Maintenance** screen, select the **Action** field as **Load** to modify the existing Notification RADXML.
7. Click the **BROWSE** button at **Load Screen XML** field.
The **Choose File to Upload** window displays.

Figure 1-12 Choose File to Upload



8. Select the RADXML file to be modified and click the **Open** button.
The **Notification Maintenance** screen displays with selected RADXML file details.

Figure 1-13 Notification Screen Loaded and Modified

Notification Function: UTNUH Action: Load Save XML Path: UTNUH_RAD.xml BROWSE

Notification Code: NOTF_UNTHOLDER
 Description: This is the notification indicating that a Untholder
 Notification Xid: UNTHOLDER-Notif xid
 Firing Time: Insert
 Filter Type: Plug Block
 Gateway Service: FCSUntholder
 Gateway Operation: QueryUntholder
 Gateway IO Request: Untholder-IO
 Type XSD Name:
 Filter Logic: (Set \$NOTIFY To Y/N & Refer Current Record as \$CURRENT_RECORD)
 IF \$CURRENT_RECORD module_code='UT' THEN \$NOTIFY:='Y' ELSE \$NOTIFY:='N', END IF, RETURN TRUE;

Module: UT
 Module Description: Unit Trust
 Base Table: UNTHOLDER_TBL
 PK Code: UNTHOLDERID
 PK Types: VARCHAR2
☐ Full Screen Reply
☐ HO Only
☐ Specific Notification

Web Service Tags

Order	Xsd Field	Table Field	Data Type	Maximum Length
1	SOURCEFNO	EXTERNAL_REF_NO	VARCHAR2	64
2	CONTRFNO	CONTRACT_REF_NO	VARCHAR2	7
3	BOOKDT	BOOK_DATE	DATE	64

9. Modify the details as required and click on the **Save** icon.

The selected RADXML file gets modified.

1.4 Deploy Notification

This topic provides the systematic instructions to deploy Notification.

1. For Notification - Workbench related deployment, compile the following files in Target FLEXCUBE UBS Database schema:
 - Notification Main Package generated from ODT
 - Hook Packages
 - GWTM_NOTIFICATION_TAG_MAP___<Notification Function ID>_.INC
 - GWTM_NOTIFICATIONS_MASTER___<Notification Function ID>_.INC
2. For Notification Trigger deployment, compile the following files in Target FLEXCUBE UBS Database schema:
 - GWTM_NOTIFICATION_TRIGGERS__TRIG_CONTRACT.INC
 - GWTR#_TRIG_CONTRACT.TRG

1.5 Trigger and Test Notification

This topic provides the systematic instructions to trigger and test the notification.

1. Simulate a case where the base table undergoes data change.
2. Check record populated at **STTB_NOTIFICATION** table.
3. Check the Notification message:
GWTBS_NOTIFICATIONS_LOG.NOTIFICATION_MESSAGE

- [Notification Flow](#)
This topic describes the run time Notification flow.

1.5.1 Notification Flow

This topic describes the run time Notification flow.

Notification flow

The notification process occurs in two parts:

1. Oracle JOBs created using FCJ Scheduler framework that sends data required for notification to an internal JMS queue.
2. Gateway MBD that lists on internal JMS queue, that picks the notification XMLs and prepares full web service response and send to external system queues.

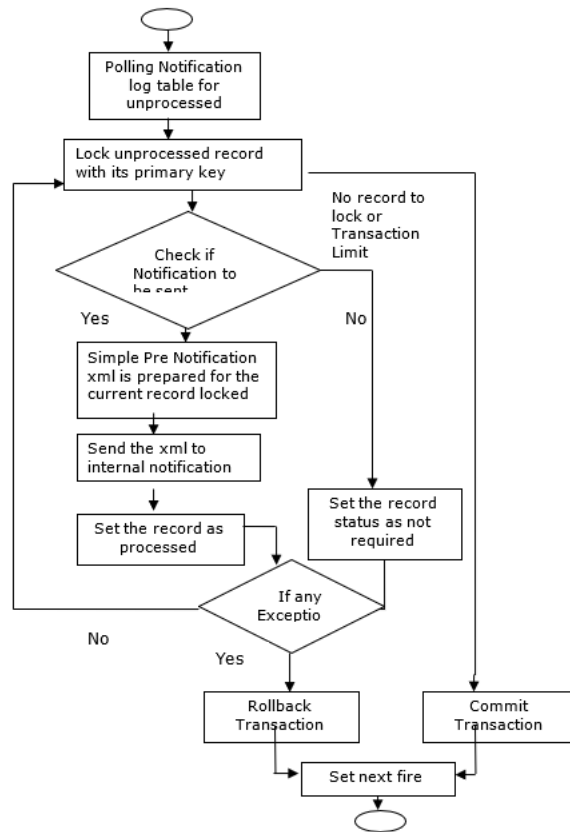
Scheduler Based Notification Flow

The Notification Process in FLEXCUBE can be done using the jobs scheduler as follows:

1. The trigger generated from Workbench will be inserting key details into a static notification log (STTB_NOTIFICATION).
2. Once Job is triggered, a request is sent to the EJB layer from the job execution class and the notification log table will be polled for unprocessed records.
3. Each unprocessed record is locked. The record is verified against the notification maintenance and checked whether notification is to be sent or not.
4. If notification is to be sent, pre-notification message XML is built and it is sent to internal NOTIFY_QUEUE(JMS queue) configured in Gateway layer.
5. The job is then rescheduled to fire next time based on the previous execution.

Refer *Gateway Installation* documents on how to set up the Queues.

Figure 1-14 Flow Chart for Notification Flow in Scheduler

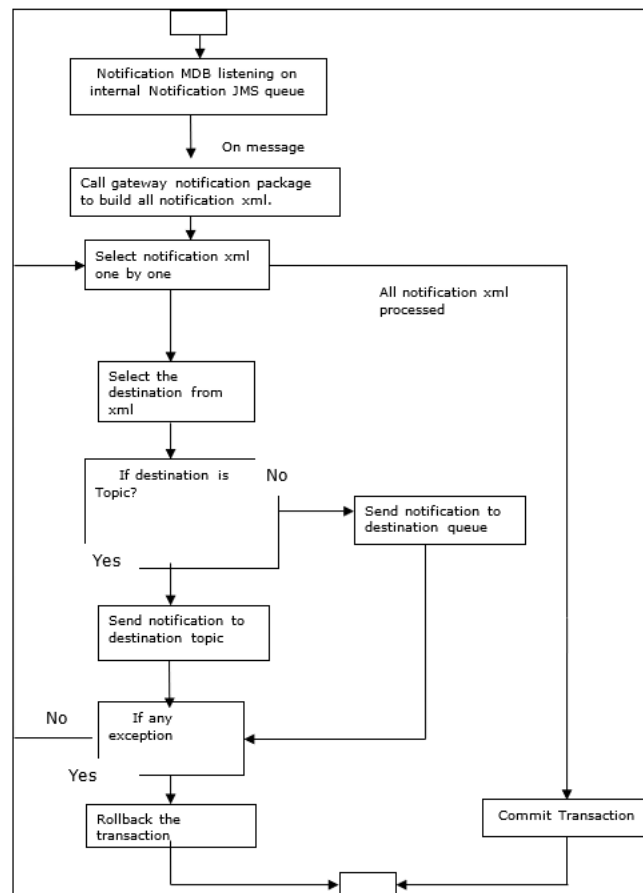


MDB Based Notification Flow

Notification processes in MDB are as follows:

1. Notification MDB listens on the internal NOTIFY_QUEUE(JMS queue).
2. On any message received, the MDB identifies which schema to connect using the JNDI name being present as part of the message XML.
3. Gateway notification processing package is called from MDB to build notifications.
4. In MDB, the notifications built are processed and sent to the destination specified in the corresponding notification.
5. In case of an exception the transaction is rolled back.
6. If all notifications are successfully processed, the transaction is committed.

Figure 1-15 Flow Chart for Notification Flow in MDB



Glossary

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