Development Workbench - Notifications Oracle FLEXCUBE Universal Banking Release 12.3.0.0.0



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## 1 Preface

This document describes the steps to develop the notification XML and notification trigger using Oracle FLEXCUBE Development Workbench for Universal Banking.

### 1.1 Audience

The Development Workbench Notification Development book is intended for the FLEXCUBE Application Developers who perform the following tasks:

Develop new Notification

To Use this manual, you need conceptual	and working knowledge of the below.
Proficiency	Resources
FLEXCUBE UBS Development	FCUBS-FD01-01-01-Development
overview	Overview Guide
Interface Getting started	FCUBS-FD04-01-01-Interface Getting started
FLEXCUBE Development Workbench for Universal Banking Reference	User manuals
Web service development to have query web service in place	FCUBS-FD02-03-01-RAD Web Service Development

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

# 2 Introduction

# How to use this Guide

The information in this guide includes:

- <u>Chapter 3, "Introduction"</u>
- Chapter 4, "Notification Getting started"
- <u>Chapter 5, "Notification Development"</u>
- <u>Chapter 6, "Deploy Notification"</u>
- <u>Chapter 7, "Test Notification"</u>

# 3 Notification – Getting started

### 3.1 What is Notification

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

## 3.2 Notification Trigger

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

# 4 Notification Development

### 4.1 Pre-request for Notification development and testing

Following are pre-request 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

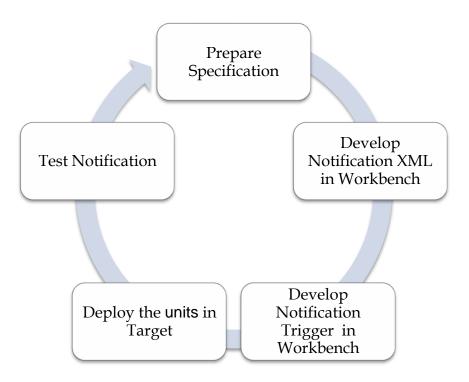


Fig 5.1.1: Development of Notifications

## 4.2 Notification specification

Identify the notification requirement as below

- What is the Notification function ID name for RAD XML (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 filter?
- What is the query Web service to be used?
  - What is the operation?
  - What are the tags required?

#### 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

### 4.3 Notification XML development

Notification RAD XML development creates the following files:

- RAD XML
- SPC
- SQL
- Static Data

#### 4.4 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.

## 4.5 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 to 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 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:

### 4.6 Notification Trigger

After successful login to Development Workbench click on Notification Trigger option in the tree as shown below:

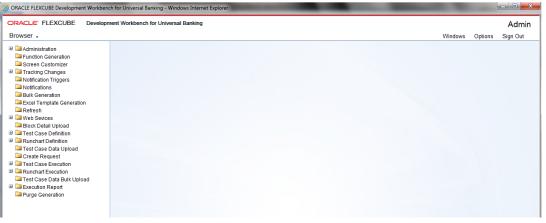


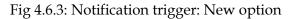
Fig 4.6.1: Notification trigger

Notification Trigger				- ×
				🧧 🗵   🖬 🐼 🎦   🖗 🌒 🔿
Trigger Code *		Base Table * [ PK Cols * [		
Description Firing Time Before		PK Cols * PK Types *		
Each Record Yes -		Data Types		
Selected Columns		Notification Codes		
Trigger When Clause				
Trigger Logic( Set \$NOTIFY To Y/	N)			
IngerLogic SetshOlleY To Y	<b>v</b> )		*	
			Ŧ	

Fig 4.6.2: Notification trigger options

Notification Trigger we have two options - Add a new Trigger or Modify Existing one. **New:** 

Notification Trigger		×
	📮 🖂   🖬 🚰   🔗 🎯	
Trigger Code * TRG_CUSTADDR	Base Table * MSTM_CUST_ADDRESS	
Description Trigger for Customer Address Maintenand	PK Cols * CUSTOMER_NO~LOCATION~MEDIA	
Firing Time After *	PK Types * VARCHAR2~VARCHAR2~VARCHAR2	
Each Record Yes 👻	Data Types	
Selected Columns Trigger When Clause (new.auth_stat='A')	Notification Codes	
Ingger when clause (now.ddar_state-r/)		
Trigger Logic( Set \$NOTIFY To Y/N )		
IF NVL(:old.once_auth, 'N') <> 'Y' THEN I_Operation := 'INSERT';	A	
ELSE		
L_Operation := 'UPDATE'; END IF;		
	*	
I		



**Trigger Code:** A unique value to for a notification trigger. Follow the naming conversion it should start with **TRG\_XXXX**. This is mandatory field. This attribute signifies the trigger code created as part of trigger creation step in OTD. Each notification will be linked to a trigger code.

**Description** : Information field. Meaningful description of Trigger is to be given.

**Firing Time** : Specify when trigger needs to fired. We 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).

**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 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 mandatory field.

**Pk Types:** Enter Primary key type of the corresponding primary key field. This is 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 in order 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, field can be left empty

Front-End Files	System Packages	Hook Packages		Meta Data		Othurs	*
RadKML    Screen Xml    System JS	Hain Package Spec Main Package Body Notification Trogers Upload Package Spec Upload Package Body	Kernel Package Spec Kernel Package Body Citualer Package Body Custor Package Body Custor Package Body	Menu Details Datasource Details LOV Details Block Details Screen Details Arnendable Details Call form Details Summary Details	Label De Block PK Function Galeway Notificati Function Purge De	Columns Call Forms Details on Details Parameters	Xsd3 Xsd3 With Annolations Careen Hinh Uptoad Table Trigger Uptoad Tables Definition Archive Table Definition	Ŧ
SLNo		File Name		File Typ	¢	Status	•
1 G\	WTR#_TRG_CUSTADOR lrg		т	RG			
2 G)	WTM_NOTIFICATION_TRIGGERSTRG_C	NISTADOR INC	I	NC			
3 TF	RG_CUSTADOR_RAD xml		F	RADIXML			
		×					
	Error Description	Error Code ARD-SAVE-007					
							v

Fig 4.6.4: Notification trigger: Generation

On successful save Notification Trigger will generate two files (gwtr#\_<trg-code>.trg and GWTM\_NOTIFICATION\_TRIGGERS\_\_<trg-code>.INC) user needs to compile them in FLEXCUBE schema.

Modify:

cation Trigger			
			🗎 🗶   I 📝 🦕 🖓 🧐
Trigger Code *	<u></u>	Base Table *	
Description	$\triangleright$	PK Cols *	
Firing Time Before 👻		PK Types *	
Each Record Yes 👻		Data Types	
Selected Columns		Notification Codes	
rigger When Clause	$\sim$		
		^	

Fig 4.6.5: Notification trigger: Modification

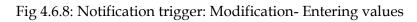
Notification Trigger									×
							i i	<b>5</b> 1	
			rigger Code		×				
Trigger Code *		*5	nggor couc						
Description			Trigger Code						
Firing Time		Presed							
Each Record	Yes +								
Selected Columns					Search Reset				
Trigger When Clause									
					<< < 10f5 > >>				
Trigger Logic(Sel 6H	OTIFY To Y/N )			Trigger Code	^				
			CUST_AC_BRN_TFR						
			LOAN_BRN_TRFR						
			TD_AC_BRN_TFR						
			TRG_APP_DETAIL						
			TRG_BLKDELMSTR						
			TRG_BRTMMSTR						
			TRG_CATDET						
			TRG_CFRAMSTR						
			TRG_CHBK						
			TRG_CLAC						
			TRG_CLTMPRD						
			TRG_CONT						
			TRG_CSTBCTRT						
			TRG_CSTMPRD						
			TRG_CUST						
					-				
		L							

Fig 4.6.6: Notification trigger: Modification-Selecting Trigger name

Notification Trigger			_ >
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			Execute Query
	_		
Trigger Code *	TRG_CUSTADDR Al Base Table *		
Description	PK Cols *		
Firing Time	Before v PK Types *		
Each Record	Yes   Data Types		
Selected Columns	Notification Codes		
Trigger When Clause			
Trigger Logic( Set \$NO	TIFY To Y/N )		
	*		
	~		

Fig 4.6.7: Notification trigger: Modification- Entering values

Notification Trigger								_ ×
				×	I I7	2	17	ⓐ ⇒
				-	<u> </u>	j 🖬 :	V	19 V
Trigger Code *	TRG_CUSTADDR		MSTM_CUST_ADDRESS					
Description	Trigger for Customer Address Maintenanc		CUSTOMER_NO~LOCATION~MEDIA					
Firing Time	After 👻	PK Types *	VARCHAR2~VARCHAR2~VARCHAR2					
Each Record	Yes 👻	Data Types						
Selected Columns		Notification Codes						
Trigger When Clause	(new.auth_stat='A')							
Trigger Logic( Set \$NO								
IF NVL(: I Ope	old.once_auth, 'N') <> 'Y' THEN ration := 'INSERT';		<u> </u>					
ELSE								
LOpe END IF;	ration := 'UPDATE';							
210 11,								
			-					
								I



ation Trigger							
							1 + 17
erote Rad Files							
Front-End Files	System Packages	Hook Paokages		Meta Data		Others	^
] RadXML Screen Xml System JS	Main Package Spec Main Package Body Notification Triggers Upload Package Spec Upload Package Body	Kernel Package Spac Kernel Package Body Clusler Package Spac Clusler Package Body Custom Package Spac Custom Package Body	Menu Dejalis Datasource Delalis UOV Details Biock Delalis Screen Details Amendable Details Call form Delalis Summary Details	Galew:	PK Columns on Call Forms ay Defails ation Defails on Parameters	XadS Xad With Annolalions Screen Himl Upload Table Trager Upload Tables Definition Archive Table Definition	
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TRGCL	JSTADDR_RAD.xml			RADXML		Generaled +	
nformation	Description	Error Code	<				
Request succes	sfully Processed	RD-SAVE-007					

Fig 4.6.9: Notification trigger: Modification-Successful Generation

## 4.7 Notifications

Notifications Screen will be used to create new notification or modify existing notification; here we capture notification information for notification codes. We save notification details into xml.

							K   7	g
	Notification Function		Action None -	Save XML	Path			
Notification Code			м	odule				
Description	ı		Module Descr	ption				
Notification Xsc	d		Base	Fable *				
Firing Time	-		PK	Cols *				
Filter Type	₹		PK	'ypes *				
Gateway Service				Full Screen Reply				
Gateway Operation	1			HO Only				
Gateway IO Request	t							
Type XSD Name	FY To Y/N & Refer Current Record a							
				*				
Web Service Ta	ags				+ -			
Order	Xsd Field	Table Field	Data Type	Maximum Length	~			

Fig 4.7.1: Notification Screen

**Action:** We can choose either new or Load action. New to create a new notification and Load 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 is specified as \$CURRENT\_DIRECTORY

**Notification Function:** Specify the notification function-id name. *Conventions:* 

*Maximum 8 chars.* 3<sup>rd</sup> letter must be 'N'. *Example: FTNCONON* 

**Notification Code:** Enter the notification code to which we need to capture values. This is Mandatory field.

#### Recommended Convention for Notification Codes:

NOTIF\_<Module Code>\_<Description> Example: NOTIF\_LD\_CONTRACT This is the notification indicating that a LD contract has been created/modified

**Description:** Information field. Meaningful description of the Notification has to be provided in the field

Module: This attribute signifies the module on which the notification is based.

**Module Description:** Information field. Module Description which would be defaulted from Module LOV

**Notification XSD**: Notification XSD name will have to be provided in the corresponding Field. Naming convention to be followed while naming Notification XSD is as follows

[Module Name] – [Notification Description] – Notif.xsd Example: FT-Contract-Notif.xsd

Notification XSD has to be provided only if no Gateway Web Service Query Operation is configured to the Notification

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 has to be sent. Options available are Insert, Update or Both

Filter Type: This attribute can take the following values.

- 1. Where clause
- 2. Plsql block

Pk Cols: Enter Primary key columns of the Base Table.

Pk Types: Enter Primary key field Data Types.

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

**Gateway Operation:** The gateway operation name to execute query for the mentioned Service.

Gateway Service: The gateway service to be used to get the full screen response.

Gateway IO Request: The gateway IO request node to be used in querying operation.

**Type XSD Name:** This field has to be entered if Notification is mapped to a Service and Request. Name of the Master Type XSD for the service and operation has to be provided here. This can be found in include portion of the Request Msg XSD of particular Service-Operation

Example: LC-Contract-Types.xsd

**Full screen Reply:** This attribute decides whether full screen or primary key notification response to be sent. This is applicable only if gateway Service details are provided

HO only: This attribute is used to send notification only from head office.

**Filter Logic:** The filter logic which decides whether the notification needs to be sent or not. This can be a simple where-clause on base table or a complex pl/sql block.

**Web service Tags:** The columns selected from base table as part of web service tags, will be used to send the full screen notification response. These tags defines the elements of Notification Xml when no Query service is mapped to it:

Front-End Files	System Packages	Hook Packages		Meta Data	Others
RadXML Screen Xml System JS	Main Package Spec Main Package Body Notification Triggers Upload Package Spec Upload Package Body	Kemel Package Body     Kemel Package Body     Custer Package Body     Custer Package Body     Custor Package Body     Custom Package Body     Custom Package Body	Menu Details Datasource Details UOV Details Block Details Green Details Amendable Details Call form Details Summary Details	Label Details Block PK Columns Function Call Forms Gateway Details V Notification Details Function Parameters Purge Details	Xsds Xsd With Annotations Screen Html Upload Table Trigger Upload Tables Definition Archive Table Definition
SI.No	F	File Name	File Type	,	Status

Fig 4.7.2: Notification Screen generation

Front-En	d Filen System Par	okages	Hook Packages		Meta Oala	Others	^
2 RadXML 3creen Xml 3system JS	<ul> <li>☑ Main Package Sp</li> <li>☑ Main Package Bo</li> <li>○ Notification Tragy</li> <li>○ Upload Package</li> <li>○ Upload Package</li> </ul>	dy HS Spec	Kemel Package Spec     Kemel Package Body     Cluster Package Spec     Cluster Package Body     Custom Package Body     Custom Package Body     Custom Package Body	Menu Defails Datasource Defails LOV Detais Brock Defails Screen Details Amendable Details Call form Defails Summary Details	Label Defails Block PK Columns Function Call Forms Caleway Defails Notification Defails Function Parameters Purge Defails	Xads Sad With Annotations Saden Himt Upload Table Trigger Upload Table Definition Archive Table Definition	
SLNo			File Name		File Type	Status	~
	fipks_finconon_main.spc			SP		Generated	
	fipksthcononkernel.spc			SF		Generated	
		Information			×	Generated 👻	
	fipks_itnconon_kernel.sql					Generated	
	GWTM_NOTIFICATIONS_MAST	1	Error Description Request successfully Processed		Code ^	Generated -	
	GWTM_NOTFICATION_TAG_N		,	, X		Generated •	÷
					Ok	Generate	xit

Fig 4.7.3: Notification Screen Generation Successful

#### Modifying an Existing Notification RADXML

The process of modifying an existing Notification RADXML is illustrated in the images below

Nolification Function	Action Load 😁		Load Screen Xml	BROWSE
iffication Code T		Module		
Descention	× Choose File to Uploa	d		<b>—</b>
	- 🔒 « MA	IN ▶ FT ▶ RADXML	✓ 4y Search RADXML	<u>م</u>
Upload File Brow	Organize 🔻 New	v folder	8== 👻	
Upload File Brow	Downloads	^ Name	Date modified	Туре
	Secent Places	CSCFTDUP_RAD.xml	12/23/2012 9:48 Alv	
	📃 Desktop	FTCCGCLM_RAD.xml	12/23/2012 9:48 AN 12/23/2012 9:48 AN	
	RECORD	FTDCAUTH_RAD.xml	12/23/2012 9:48 AM	
	🥦 panraju T. Computer	FTDCONAU_RAD.xml	12/23/2012 9:48 Alv	
	System (C:)	FTDCONON_RAD.xml	12/23/2012 9:48 AM 12/23/2012 9:48 AM	
	Data (D:)	ETDDSUPD PAD year	12/23/2012 9:48 AM	
	DVD RW Driv	FTDMCKCH_RAD.xml	12/23/2012 9:48 AM	I XML F
	Vperia L	FTDMT101_RAD.xml	12/23/2012 9:48 AM	XML F
		File name:	✓ All Files (*.*)	-
				ancel
			open c	
	Table Field Date Typ		ength	

Fig 4.7.4: Notification Screen Loading

								<b>.</b>	×	7
		Notification Function FT	NCONON	Actio	n Load 👻	Save Xml P	ath FTNCONON_RAD.x	BROWSE		
1	Notification Code	* NOTIF_FT_CONTRACT			Module	FT	×1			
	Description				Module Description	Funds Transfer				
	Notification Xsd					* CSTB_CONTRACT				
	Firing Time	Insert 👻			PK Cols	* CONTRACT_REF_NO				
	Filter Type	Plsql Block 👻			PK Types	* VARCHAR2				
	Gateway Service	FCUBSFTService	×E			Full Screen Reply				
Ga	ateway Operation		<b>*</b> E			HO Only				
Gat	teway IO Request	Contract-Details-IO								
	T VOD N									
		Y To Y/N & Refer Current Re	ecord as \$CURRENT_RECt		END IF; RETURN TRUE;					
ilter L	Logic(Set \$NOTIF	Y To Y/N & Refer Current R( VT_RECORD.module_code			END IF; RETURN TRUE;					
ilter L	Logic( Set \$NOTIF	Y To Y/N & Refer Current R( VT_RECORD.module_code			END IF; RETURN TRUE;	*	+-			
ilter Lo	UDIC Set \$NOTIF IF \$CURREN Web Service Ta Order	Y To Y/N & Refer Current Re VT_RECORD.module_code Ngs Xsd Field	e = 'FT' THEN \$NOTIFY := Y'; Table	ELSE \$NOTIFY := 'N';	Data Type	Maximum Length	+-			
V I I I I I I	Upper Service Ta Order	Y To Y/N & Refer Current R4 VT_RECORD.module_code	e = 'FT' THEN \$NOTIFY := Y';	ield		Maximum Length				
Filter L	Upper Service Ta Order	Y To Y/N & Refer Current Re VT_RECORD.module_code Ngs Xsd Field	e = 'FT' THEN \$NOTIFY := Y'; Table	ELSE \$NOTIFY := 'N';	Data Type	Maximum Length				

Fig 4.7.5: Notification Screen Loaded

	ition Maintei												_	-
											<b>.</b>	×	13	4
			Notification Function	NCONON		Actio	n Load 👻		Save Xml Path	FTNCONON_RAD.xml	BROWS		-	
r	Notificatior	n Code *	NOTIF_FT_CONTRACT		1		Modu	e FT		×E				
			This is the notification in				Module Descriptio							
	Notificatio				j			e * CSTB_CONTR/	ACT 🚬					
	Firin	g Time	Insert 👻				PK Co	s * CONTRACT_R	EF_NO					
	Filte	er Type	Plsql Block 🔹				РК Туре	s * VARCHAR2						
	Gateway S	Service	FCUBSFTService		<b>*</b> =			Full Screen	Reply					
Ga	Gateway Ope	eration	QueryContract		<b>*</b> =			HO Only						
Gat	ateway IO Re	equest	Contract-Details-IO		]									
		NOTIFY T	To YIN & Refer Current R			Notify := 'N';	END IF; RETURN TRUE;	•						
er Li	Logic(Set \$	NOTIFY T	_RECORD.module_cod			NOTIFY := 'N';	END IF; RETURN TRUE;	×						
v	Logic(Set \$	NOTIFY T	_RECORD.module_codd		)TIFY := 'Υ'; ELSE \$	NOTIFY := 'N'		×						
v N	Ucgic(Set S IF \$CL Web Servi Order	NOTIFY T	_RECORD.module_codd	e = FT' THEN \$NO	TIFY := 'Y'; ELSE \$ Table Field		Data Type		- Hand State Stat	-				
V 1	Logic(Set S IF \$CL Web Servi Order 1	INOTIFY T	_RECORD.module_codd	e = FT'THEN \$NO	Table Field REF_NO	×E	Data Type VARCHAR2	64						
iter Li	Under Version Servi Web Servi Order 1 2		_RECORD.module_codd	e = FT' THEN \$NO	Table Field 		Data Type							

Fig 4.7.6: Notification Screen Loaded and Modified

# 5 Deploy Notification

#### 5.1 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

#### 5.2 Notification Trigger deployment

Compile the following files in Target FLEXCUBE UBS Database schema

- GWTM\_NOTIFICATION\_TRIGGERS\_TRIG\_CONTRACT.INC
- GWTR#\_TRIG\_CONTRACT.TRG

# 6 Test Notification

This section explains the run time notification flow and testing steps.

### 6.1 Notification flow

The notification process occurs as 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 prepare full web service response and send to external system queues.

#### 6.2 Scheduler based notification

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

The trigger generated from Workbench will be inserting key details into a static notification log (STTB\_NOTIFICATION)

Once Job is triggered, a request is sent to EJB layer from job execution class and the notification log table will be polled for unprocessed records.

Each unprocessed record is locked.

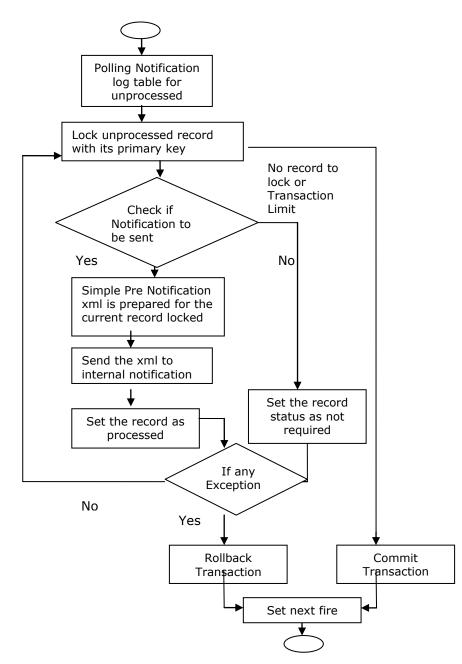
The record is verified against the notification maintenance and checked whether notification is to be sent or not.

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.

The job is then rescheduled to fire next time based on the previous execution.

Refer Gateway Installation documents on how to setup the Queues.

Flow Chart for Notification Flow in Scheduler

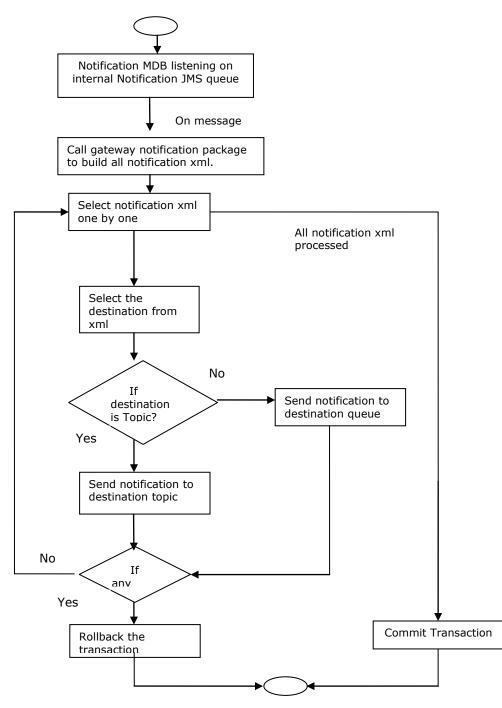


#### 6.3 MDB based notification flow

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 is processed and sent to the destination specified in corresponding notification.
- 5. In case of exception the transaction is rolled back.
- 6. If all notifications are successfully processed, transaction is committed.

#### Flow Chart for Notification Flow in MDB



## 6.4 Triggering notification and testing

Follow the below steps to test notification:

- Simulate a case where base table under goes data change.
- Check record populated at STTB\_NOTIFICATION table
- Check Notification message
   GWTBS\_NOTIFICATIONS\_LOG.NOTIFICATION\_MESSAGE



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