Oracle® Retail Bulk Data Integration

Installation Guide Release 16.0.2 E99802-01

November 2018



Oracle® Retail Service Backbone Installation Guide, Release 16.0.2

E99802-01

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Oracle® Retail Bulk Data Integration Installation Guide, Release 16.0.2.

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

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- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
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- Do you need different information or graphics? If so, where, and in what format?
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Preface

The Oracle® Retail Bulk Data Integration Installation Guide contains the requirements and procedures that are necessary for the retailer to install the Oracle Retail Bulk Data Integration product.

Audience

The Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

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To contact Oracle Customer Support, access My Oracle Support at the following URL:

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When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 16.0) or a later patch release (for example, 16.0.2). If you are installing the base release and additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

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http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

An updated version of the applicable Oracle Retail document is indicated by an Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

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Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

(Data Model documents are not available through the Oracle Technology Network. You can obtain these documents through My Oracle Support.)

Conventions

ConventionMeaningboldfaceBoldface type indicates graphical user interface elements associated
with an action, or terms defined in text or the glossary.italicItalic type indicates book titles, emphasis, or placeholder variables for
which you supply particular values.

The following text conventions are used in this document:

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1 Introduction

Oracle Retail Bulk Data Integration (BDI) provides the ability to transfer bulk data between Oracle Retail applications. BDI contains the following components:

- BDI Batch Job Admin Helps management of batch jobs
- BDI Process Flow Provides a mechanism to run multiple dependent batch jobs
- BDI Scheduler Schedules execution of an action, like invoking process flows or services

A BDI installation contains the following components:

- An installation of BDI RMS Batch Job Admin
- An installation of BDI RXM Batch Job Admin
- An installation of BDI SIM Batch Job Admin
- An installation of BDI Process Flow
- An installation of BDI Scheduler

BDI Topology

The diagram below shows the default topology for BDI. Please refer to the *Oracle Retail Bulk Data Integration Implementation Guide* for other supported topologies.



Technical Specifications

The BDI components have several dependencies on Oracle Retail Application installations, as well as on the Oracle WebLogic Servers. This section covers these requirements.

Requesting Infrastructure Software

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, etc.) on the Oracle Software Delivery Cloud, you should file a non-technical 'Contact Us' Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 - *Requesting Physical Shipment or Download URL for Software Media*.

Server Requirements

Versions Supported
OS certified with Oracle Database 12c (12.1.0.2) Enterprise Edition. Options are:
 Oracle Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine).
 Red Hat Enterprise Linux 6 or 7 for x86-64 (actual hardware or Oracle virtual machine)
 IBM AIX 7.1 (actual hardware or LPARs)
 Solaris 11.x Sparc (actual hardware or logical domains)

Database Server 12c	Oracle Database Enterprise Edition 12c (12.1.0.2) with the following specifications:		
	Components:		
	Enterprise Edition		
	• Examples CD (formerly the companion CD)		
	Oneoff Patches:		
	 20846438: ORA-600 [KKPAPXFORMFKK2KEY_1] WITH LIST PARTITION 		
	 Patch 19623450: MISSING JAVA CLASSES AFTER UPGRADE TO JDK 7 		
	 20406840: PROC 12.1.0.2 THROWS ORA-600 [17998 WHEN PRECOMPILING BY 'OTHER' USER 		
	RAC only:		
	 21260431: APPSST 12C : GETTING ORA-4031 AFTH 12C UPGRADE 		
	 21373473: INSTANCE TERMINATED AS LMD0 AN LMD2 HUNG FOR MORE THAN 70 SECS 		
	Other Components:		
	 Perl interpreter 5.0 or later 		
	 X-Windows interface 		
	■ JDK 1.7		
Application Server OS	OS certified with Oracle Fusion Middleware 12c. Option are:		
	 Oracle Linux 6 or 7 for x86-64 (Actual hardware or Oracle virtual machine). 		
	 Red Hat Enterprise Linux 6 or 7 for x86-64 (actual hardware or Oracle virtual machine) 		
	 IBM AIX 7.1 (actual hardware or LPARs) 		
	 Solaris 11.x Sparc (actual hardware or logical domains) 		
Application Server	Oracle Fusion Middleware 12c (12.2.1.3)		
	Components:		
	• Oracle WebLogic Server 12c (12.2.1.3)		
	 Java: JDK 1.8+ latest security updates 64 bit 		
	Patches:		
	 Patch 22648025: ILLEGALSTATEEXCEPTION WHI INVOKING A WEBSERVICE/EJB IN WLS 12.2.1 (y need an Oracle support account to get it) 		
Minimum required JAVA version for all operating systems	JDK 1.8+ latest security updates 64 bit		

Note: By default, JDK is at 1.6. After installing the 12.1.0.2 binary, apply patch 19623450. Follow the instructions on *Oracle Database Java Developer's Guide 12c Release 1* to upgrade JDK to 1.7. The Guide is available at:

http://docs.oracle.com/database/121/JJDEV/chone.htm#JJDEV0100 0

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Installation Notes

When redeploying BDI applications, please note the following.

- If any existing datasource connection detail is changed (in *env-info.json deployment config file), such as the JDBC URL, username or, password of the database connection, the datasource needs to be first deleted from the WebLogic server before installation. This is a manual step.
 - Log in to the WebLogic Server Admin console. Go to Services -> Data Sources page. Select the datasource, delete and activate the changes.
 - Proceed with the installation.
- The JobAdminDataSource and ReceiverServiceDataSource should also be cleaned if we are using the same schema, delete all the tables for RMS, RXM, SIM and external.

Note: The above steps are not required if no datasource connection detail is changed during redeployment.

BDI Batch Job Admin

This chapter describes the procedure you must use to install the JRF domain and deploy the BDI Batch Job Admin application. For more information about domain creation and other server related information, see the WebLogic application server documents.

Installation and Setup Instructions

This section describes the installation and setup instructions including the installation prerequisites, preparing the WebLogic server, creating a WebLogic domain, and deploying the WAR file.

Prerequisites

The BDI Batch Job Admin application requires Oracle WebLogic server 12c (12.2.1.3), built with Java 8 (JDK 1.8 64 bit with the latest security updates).

The recommended Java VM memory setting for the Job Admin application domain is:

-Xms1024m -Xmx2048m

Installing WebLogic

To obtain WebLogic 12c (12.2.1.3), go to the Oracle Technology Network and take the following steps.

- **1.** Find fmw_12.2.1.3.0.0_infrastructure_Disk1_1of1.zip and download this file to your system.
- **2.** Extract the contents of this zip file to your system. You will use the fmw_ 12.2.1.3.0.0_infrastructure.jar file to run the installer.
- **3.** Run the installer by executing the jar file:

java -jar fmw_12.2.1.3.0.0_infrastructure.jar

The Welcome window appears.



4. Click Next. The Auto Updates window appears.

⊗ ─ Oracle Fusion Middle Auto Updates	leware 12c Infrastructure In	stallation - Step 2 o	ORACLE [®]	
Auto opuates			FUSION MIDDLEWARE	
<u>Welcome</u>				
Auto Updates	Skip Auto Updates			
Installation Location	 Select patches from <u>directory</u> 	,		
Installation Type	Location:			Br <u>o</u> wse
Prerequisite Checks Installation Summary	Search My Oracle Support for	Updates		
Installation Progress	<u>U</u> sername:			
Installation Complete	Password:			
	P <u>r</u> oxy Settin	gs		Test Connection
	Search			
	**			
Help	11	< 8	ack <u>N</u> ext > Fin	ish Cancel

5. Select the appropriate radio button and click Next. The Installation Location window appears.

😣 🕘 Oracle Fusion Middl	eware 12c Infrastructure Installation - Step 3 of 8
Installation Location	
Y <u>Welcome</u>	
4 Auto Updates	▼ Browse
Installation Location	Easture Cate Installed At Colorted Oracle Herman Minur
 Installation Type 	reature sets installed at Selected Oracle Home.
Prerequisite Checks	
Installation Summary	
Installation Progress	
O Installation Complete	
	Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

- **6.** Click Browse to select the Oracle Home location where the Weblogic Server is to be installed.
- 7. Click Next. The Installation Type window appears.



8. Select Fusion Middleware Infrastructure and click Next. The installer performs the pre-requisite checks and ensures all required conditions are satisfied.

Oracle Fusion Middle Prerequisite Checks	ware 12c Infrastructure Installation - Step 5 of 9 ORACLE FUSION MIDDLEWAR	
<u>Welcome</u> <u>Auto Updates</u>	100%	
Installation Location Installation Type	Checking operating system certification	
Prerequisite Checks	Checking Java version used to launch the installer	
<u>Security Updates</u> <u>Installation Summary</u> Installation Progress		
installation Complete	Image:	
	Stop Rerun Skip View Successful Tasks	View Log
	a Achecking operating system certification Be ✔ Checking Java version used to launch the installer	
Help	< Back Next >	nish Cancel

9. When the prerequisite check completes successfully, click Next. The Security Updates window appears.

	leware 12c Infrastructure Installation - Step 6 of 9
ecurity Updates	
Welcome	[
Auto Updates	
Installation Location	
Installation Type	Provide your email address to be informed of security issues, install the product
Prerequisite Checks	and induce comparador manager. <u>view decans</u> .
Security Updates	Easier for you if you use your My Oracle Support email address/username
Installation Summary	
Installation Progress	✓ I wish to receive security updates via My Oracle Support.
Installation Complete	My <u>O</u> racle Support Password:



Welcome	FUSION MIDDLEWARE
weicome	🗉 Install Oracle Fusion Middleware 12c Infrastructure
Auto Updates	Installation Location
Installation Location	Oracle Home Location:
Installation Trees	Log File Location: /tmp/OraInstall2016-06-02_02-11-26PM/install2016-06-02_02-11-26PM
installation Type	□ Disk Space
Prerequisite Checks	Required: 1962 MB
Security Updates	Available: 112005 MB
Installation Summary	□ Feature Sets to Install
Installation Progress	Core Application Server 12.2.1.0.0
installation Progress	Coherence Product Files 12.2.1.0.0
Installation Complete	WebLogic SCA 12.2.1.0.0
	WebLogic Client lars 12.2.1.0.0
	Administration Console Additional Language Help Files 12.2.1.0.0
	CIE WLS Config 12.2.1.0.0
	Enterprise manager 12.2.1.0.0
	FMW Platform Generic 12.2.1.0.0
	OPatch 13.3.0.0.0
	Toplink Developer 12.2.1.0.0
	WLS for FMW 12.2.1.0.0
	Fusion Middleware Maven Support 12.2.1.0.0
	Thirdparty JDBC Drivers 12.2.1.0.0
	Save Response File
	Select Install to accept the above options and start the installation.
	To change the above options before starting the installation, select the option to change in the left pane or use the Back button.

11. Click Install. The Installation Progress window appears.

😣 🖯 Oracle Fusion Middl	eware 12c Infrastructure Installation - Step 8 of 9
Installation Progress	
Y Welcome	
4 Auto Updates	100%
Installation Location	
Installation Type	V Prepare
Prerequisite Checks	🖋 Сору
Security Updates	✓ Generating Libraries
Installation Summary	Performing String Substitutions
Installation Progress	V Linking
Installation Complete	Setup
	Saving the inventory
	✓ Post install scripts
	View Messages View Successful Tasks View Log
	Hardware and Software Engineered to Work Together
Help	< Back Next > Finish Cancel

12. Click Next when the installation completes. The Installation Complete window appears.

😸 🖯 Oracle Fusion Middl	eware 12c Infrastructure Installation - Step 9 of 9
Installation Complete	
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Security Updates Installation Summary Installation Progress Installation Complete	 □ Install Oracle Fusion Middleware 12c Infrastructure □ Installation Location Oracle Home Location: Log File Location: /tmp/Oralnstall2016-06-02_02-11-26PM/install2016-06-02_02-11-26PM .log □ Feature Sets Installed Successfully Core Application Server 12.2.1.0.0 Coherence Product Files 12.2.1.0.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.0.0 WebLogic CCI 12.2.1.0.0 WebLogic CCI 13rs 12.2.1.0.0 WebLogic Client Jars 12.2.1.0.0 Cle WLS Config 12.2.1.0.0 Enterprise manager 12.2.1.0.0 Future Sense Madditional Language Help Files 12.2.1.0.0 Cle WLS Config 12.2.1.0.0 Future Sense Madditional Language Help Files 12.2.1.0.0 Cle WLS Config 12.2.1.0.0 Future Sense Madditional Language Help Files 12.2.1.0.0 Cle WLS Config 12.2.1.0.0 Future Sense Madditional Longuage Help Files 12.2.1.0.0 Future Sense Madditional Longuage Help Files 12.2.1.0.0 Future Sense Madditional Longuage Help Files 12.2.1.0.0 Future Sense Maddition Console Additional Longuage Help Files 12.2.1.0.0 Toplink Developer 12.2.1.0.0 Fusion Middleware Maven Support 12.2.1.0.0 Thirdparty JDBC Drivers 12.2.1.0.0 Next Steps: See the online help for next steps after installation. Oracle Fusion Middleware 12c Infrastructure installation completed successfully
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

Creating the Required Schema Using the Repository Creation Utility

Perform the following procedure to create a schema user for the domain:

1. Run the RCU from the <MW_HOME>/oracle_common/bin folder. The Welcome window appears.



2. Click Next and select the Create Repository option.



3. Click Next. Enter the database credentials where the schema user has to be created.

😸 🕘 Welcome - Step 3 o	f 8	
Repository Creation	Utility	
Welcome Create Repository Database Connection De Select Components Schema Passwords	Database Type: Host Na <u>m</u> e:	Oracle Database For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.
Map Tablespaces Summary Completion Summary	P <u>o</u> rt: <u>S</u> ervice Name:	1522
	<u>D</u> assword: Role:	Sysea
		One or more components may require SYSDBA role for the operation to
Help		< <u>Back</u> <u>Next</u> <u>Finish</u> Cancel

4. Click Next. Specify the prefix to be used for the schema user creation. For example, INT. Select Metadata Services, WebLogic Services, and Oracle Platform Security Services.

elect Components			F)</th
Welcome	Specify a unique prefix for all s and manage the schemas late	chemas created in th r.	nis session,	so you can (easily locate,	reference,
Database Connection Details	 Select existing prefix: 	BDI				
Select Components						
	Oreate new prefix:	INT				
Schema Passwords		Alpha numeric only	/. Cannot sta	art with a nu	mber. No spe	cial
Map Tablespaces						
Summary	Component			Scher	na Owner	
	□□ Oracle AS Repositor	y Components				
Completion Summary	B AS Common Sche	mas				
	User Messagir	ig Service		UMS	00	
	Metadata Sen	lices				
		structure Services		INT ST	re	
	Oracle Platform	n Security Services		INT OF	PSS	
	Audit Services	in became y bernees		INT IA	U	
	Audit Services	Append		INT IA	U APPEND	
	Audit Services	Viewer		INT IA	U VIEWER	
	-					

5. Click Next. Specify the password.

😸 🖯 Welcome - Step 5 of	58		
Repository Creation U	Jtility		
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Define passwords for main and auxiliary schema users. • Use same passwords for all schemas Password: •••• • Alpha numeric only.Cannot start with No special characters except \$, #, Confirm Password: Use main schema passwords for auxiliary schemas Specify different passwords for all schemas	h a number. _ ·	
Help	< <u>B</u> a	ack <u>N</u> ext > <u>F</u> inisl	Cancel

6. Click Next. The window provides the details of tablespaces created as part of schema creation.

Welcome Default and temporary tablespaces for the selected To create new tablespaces or modify existing table Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces INT_MDS Summary Component Structu INT_STB Completion Summary Oracle Platform Secu INT_AU Completion Summary Audit Services Append INT_IAU_APPEND Audit Services Viewer INT_IAU_VIEWER * Default tablespaces (specified in the configuration)	d components app spaces, use the M	pear in the table lanage Tablespa	below. aces Button
Schema Passwords Map Tablespaces Summary Completion Summary Completion Summary Completion Summary Audit Services Append INT_IAU_VEWER Audit Services Viewer INT_IAU_VEWER			nage <u>T</u> ablespa
Schema Passwords Definition of the configuration Map Tablespaces Summary Summary Completion Summary Completion Summary Oracle Platform Secu INT_OPSS Audit Services Append INT_IAU Audit Services Viewer INT_IAU_VIEWER Audit Services Viewer INT_IAU_VIEWER *	Onfoult Tableses	Tomp T	ablespace
Map Tablespaces INT_MUS Summary Completion Summary Completion Summary Completion Summary Audit Services INT_IAU Audit Services Viewer INT_IAU Audit Services Viewer INT_IAU_VIEWER * Default tablespaces (specified in the configuration)	NT MDC	visit in	
Summary Summary Completion Summary Completion Summary Completion Summary Audit Services Append INT_IAU_APPEND Audit Services Viewer INT_IAU_VIEWER * Default tablespaces (specified in the configuration	TINI_MUS		
Completion Summary Completion Su	INT CTD		
Completion Summary Audit Services INT_IAU Audit Services INT_IAU Audit Services Viewer INT_IAU_APPEND Audit Services Viewer INT_IAU_VIEWER * Default tablespaces (specified in the configuration	INT IAC ODCC		
Audit Services Append INT_IAU_APPEND * Audit Services Viewer INT_IAU_VIEWER * Audit Services Viewer INT_IAU_VIEWER *	INT_IAS_UPSS		
Audit Services Append INT_AU_VIEWER * Audit Services Viewer INT_AU_VIEWER * * Default tablespaces (specified in the configuration			
* Default tablespaces (specified in the configuration			
* Default tablespaces (specified in the configuration			
	n files) are to be o	created upon co	nfirmation.

7. Click Next. The Confirmation window appears.



8. Click OK. The Summary window appears.

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	•	Save <u>R</u> esponse File				
Help Sack Next > Create Cancel	Help		< 1	Back Next >	Create Car	ncel

9. Click Create and proceed to create the schema. This could take a while to complete. The Completion Summary window appears.

😣 🖯 Welcome - Step 8 of	8				
Repository Creation U	tility				
O Welcome	Database details:				
Create Repository	Host Name				
O Database Connection Details	Port	1522			
O Select Components	Service Name				
() Schema Pacoworde	Connected As	sys			
U Schema Passwords	Operation	System and Da	ata Load concu	rrently	
O Map Tablespaces	Execution Time	1 minute 34 s	econds		
o Summary					
Completion Summary	RCU Logfile	/tmp/RCU2016	-06-09_09-26_1	529980413/logs/rcu.log	3
	Component Log	/tmp/RCU2016	-06-09_09-26_1	529980413/logs	
	View Log	rcu.log			
			-		
	Prefix for (prefixable) Schema Owners	INT			
	Compor	ient	Status	Time	Logfile(Click to view)
	Metadata Services		Success	00:12.371(sec)	mds.log
	WebLogic Services		Success	00:13.318(sec)	wls.log
	Common Infrastructur	e Services	Success	00:09.573(sec)	stb.log
	Oracle Platform Secur	ity Services	Success	00:17.592(sec)	opss.log
	Audit Services		Success	00:12.748(sec)	iau.log
	Audit Services Append		Success	00:09.471(sec)	iau_append.log
	Audit Services Viewer		Success	00:09.392(sec)	iau_viewer.log
Help				< <u>B</u> ack <u>N</u> ext >	<u>Create</u> <u>Close</u>

Creating a WebLogic Domain with JRF

Perform the following procedure to create a new WebLogic domain with JRF:

1. Run the config.sh from <ORACLE_HOME>/oracle_common/common/bin folder. The Configuration Type window appears.

😸 😑 Fusion Middleware C	onfiguration Wizard - Page 1 of 8	
Configuration Type		
🙊 Create Domain		
v Templates		
Administrator Account		
Domain Mode and JDK		
Advanced Configuration		
 <u>Configuration Summary</u> 	What do you want to do?	
Configuration Progress	Create a new demain	
O End Of Configuration		
	Domain Location: :/Middleware/Oracle1221.2_Home/user_projects/domains/intl_doma Browse	
		_
	Create a new domain.	
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cance	

2. Select Create a new domain, provide domain location, and click Next. The Templates window appears. By default, the Basic WebLogic Server Domain - 12.2.1.3 [wlserver] checkbox is selected.

Select the Oracle JRF - 12.2.1.3 [oracle_common], Oracle Enterprise Manager [em], and Oracle WSM Policy Manager - 12.2.1.3.0 [oracle_common] check boxes.

😣 🕘 Fusion Middleware Co	onfiguration Wizard - Page 2 of 12
Templates	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources IDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	• Create Domain Using Product Templates: Template Categories: All Templates Available Templates • Basic WebLogic Server Domain - 12.2.1 [wlserver]* • Oracle Enterprise Manager - 12.2.1 [em] Oracle User Messaging Service Basic - 12.2.1 [gracle_common] Oracle WSM Policy Manager - 12.2.1.0 [oracle_common] Oracle JRF SOAP/JMS Web Services - 12.2.1 [gracle_common] Oracle JRF SOAP/JMS Web Services - 12.2.1 [gracle_common] Oracle Restricted JRF - 12.2.1 [gracle_common] Oracle Restricted JRF - 12.2.1 [gracle_common] Oracle Restricted JRF - 12.2.1 [gracle_common] Oracle PRF - 12.2.1 [gracle_common] Oracle PRF - 12.2.1 [gracle_common] Oracle PRF - 12.2.1 [gracle_common] Oracle OPSR EST Service Application - 12.2.1 [wlserver] WebLogic Advanced Web Services for JAX-WS Extension - 12.2.1 [gracle_common] Oracle OPSS REST Service Application - 12.2.1 [gracle_common] Oracle OPSR EST Service Application - 12.2.1 [gracle_common] Oracle Domain Using Custom Template: Template location: Browse
Help	< Back Next > Einish Cancel

3. Click Next. The Administrator Account window appears. Enter the user credentials you want to use to log in to the WebLogic Administration Console.

😣 🗁 Fusion Middleware C	onfiguration Wiz	ard - Page 3 of 11				
Administrator Account						
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same a at least one number	weblogic	nust contain	at least 8 alpha	anumeric	characters with
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

4. Click Next. The Domain Mode and JDK window appears. Set the Domain Mode as Production and select the JDK version (JDK 1.8 with the latest security updates) you want to use.



- 5. Click Next. The Database Configuration Type window displays.
 - **a.** Select the RCU Data radio button.
 - **b.** Select Oracle as the Vendor.
 - **c.** Select Oracle's Driver (Thin) for Service connections; Version 9.0.1 and later as the Driver.
 - **d.** Enter the Service, Host Name, Port, Schema Owner, and Schema Password for the *_STB schema created using RCU.
 - e. Click Get RCU Configuration.

The Connection Result Log displays the connection status.

😣 🖯 Fusion Middleware C	onfiguration Wizard - Page 6 of 12
Database Configuration	Type ORACLE FUSION MIDDLEWARE
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Ty Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: • <u>B</u> CU Data · <u>Manual Configuration</u> Enter the database connection details using the Repository Creation Utility service table (STB) schema credentials. The Wizard uses this connection to automatically configure the datasources required for components in this domain. Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; • DBMS/Service: Host Name: Port: 1522 Schema Owner: INT_STB Schema Password: ••• Get RCU Configuration Cancel Connection Result Log Driver:
	Connecting to the database serverOK Retrieving schema data from database serverOK Binding local schema components with retrieved dataOK Successfully Done.
Help	< <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

6. Click Next. The JDBC Component Schema window appears.

😣 😑 Fusion Middleware C	onfiguration Wizard -	Page 7 of 12				
JDBC Component Scheme	a					
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Vendor: DBMS/Service: Schema Owner: Oracle RAC configuration for Convert to Gri Convert to Gri Component Schema OVSM MDS Schema OPSS Audit Schema OPSS Audit Viewer St OPSS Schema	Prive Prive Prive Sch Sch	ver: it Name: iema Password: hemas: ert to RAC multi ed rows in the to Host Name	data sour able below Port 1522 1522 1522 1522	Port Port Port Port Port Port Port Port	sonvert
Help			< <u>B</u> ack	<u>N</u> ext :	<u> </u>	Cancel

7. Click Next. The JDBC Component Schema Test window displays the status on whether the JDBC tests on the schemas were successful.

😣 🕘 Fusion Middleware C	onfiguration Wizard - Page 8 of 12		
JDBC Component Schem	a Test		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	V Status Component Schema V LocalSvcTbl Schema V OWSM MDS Schema V OPSS Audit Schema V OPSS Audit Viewer: V OPSS Schema Image: Schema Connection Result Log Component Schema=LocalSvcTbl Schema URL= URL= URL= UBC: Schema Schema Image: Schema Schema Image: Schema Schema Image: Schema	FUSION MIDDLEWARE	
Help		Back Next > Einish	Cancel

8. Click Next. The Advanced Configuration window displays. Select all the checkboxes, except Domain Frontend Host Capture and JMS File Store options, in this window.

😸 🕘 Fusion Middleware C	onfiguration Wizard - Page 8 of 19		
Advanced Configuration			
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDEC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Progress End Of Configuration	Administration Server Modify Settings Node Manager Configure Node Manager Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters JMS File Store Modify Settings		
Help	< <u>B</u> ack	K <u>N</u> ext > <u>F</u> inish	Cancel

9. Click Next. The Administration Server window appears. Enter the Listen Address and the Listen Port details.

😣 🕘 Fusion Middleware C	onfiguration W	/izard - Page	10 of 20				
Administration Server						L C EWARE	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Deployments Targeting Services Targeting Configuration Summary Configuration Summary Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	AdminServer localhost 37001 Unspecified	and 65535, a	nd different f	rom SSL listen p	port and co	oherence port.
Help				< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

10. Click Next. The Node Manager window appears. Select the Node Manager Type and enter the Node Manager Credentials.

😸 🕘 Fusion Middleware C	onfiguration Wizard -	Page 11 of 20			
Node Manager					
A Create Domain					
Templates					
Application Location					
Administrator Account					
Domain Mode and JDK	Node Manager Type				
Database Configuration Type	Per <u>D</u> omain Default L	ocation			
Component Datasources	OPer Domain <u>C</u> ustom	Location			
UDBC Test	Node Manager Home	2_Home/user_projec	ts/domains/int_don	nain/nodemanag	er B <u>r</u> owse
Advanced Configuration	O <u>M</u> anual Node Manage	er Setup			
Administration Server	Node Manager Creden	tiale			
🧅 Node Manager	Username:	weblogic			
Managed Servers	Password	•••••			
Clusters	Confirm Password	•••••			
Coherence Clusters					
Machines					
Deployments Targeting					
Services Targeting					
Configuration Summary	Must be the same as the	password. Password m	nust contain at leas	t 8 alphanumeri	c characters with
Configuration Progress	at least one number of sp				
End Of Configuration					
				_	
Help			< <u>B</u> ack <u>N</u> ext	t > Einish	Cancel

- **11.** Click Next. The Managed Servers window appears.
 - **a.** Click Add to add a managed server on which you will deploy the application.

b. Enter the Server Name, Listen Address, and Listen Port for the managed server.

😣 😑 Fusion Middleware C	onfiguration Wizard	l - Page 12 of 20				
Managed Servers						
Templates	👍 🖣 dd 🛛 🕞 Clo	one X <u>D</u> elete			🔊 Dis <u>c</u> a	rd Changes
Application Location Administrator Account	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and JDK	bdi-rms-server	All Local Addres 🔻	37003		Disabled	JRF-MAN-SVR
Database Configuration Type Component Datasources						
UDBC Test						
Advanced Configuration						
<u>Node Manager</u> Managed Servers						
<u>Clusters</u> <u>Coherence Clusters</u>						
 <u>Machines</u> <u>Deployments Targeting</u> 						
<u>Services Targeting</u> <u>Configuration Summary</u>						
Configuration Progress End Of Configuration						
Help			< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Cancel

c. Set the Server Groups to JRF-MAN-SVR.

12. Click Next. The Clusters window appears.

a. Click Add to add a cluster. This is an optional step in the procedure.

😸 🕘 Fusion Middleware Co	onfiguration Wiz	ard - Page 12 of 1	19		
Clusters					
Create Domain	👍 Add 🛛 💥	Delete		iii) (is <u>c</u> ard Changes
Administrator Account	Cluster Name	Cluster Address	Frontend Host	Frontend HTTP	Frontend HTTPS
Domain Mode and JDK				Port	Port
Database Configuration Type					
Component Datasources					
JDBC Test Advanced Configuration					
Administration Server					
Wode Manager					
Managed Servers					
<u>Coherence Clusters</u>					
<u>Machines</u>					
 Deployments Targeting 					
<u>Services Targeting</u> Configuration Summary					
Configuration Progress					
End Of Configuration					
Help			< <u>B</u> ack	<u>N</u> ext > <u>F</u> inis	h Cancel

- **13.** Click Next. The Coherence Clusters window appears.
 - **a.** Add a coherence cluster. This is an optional step in the procedure.

😣 🕘 Fusion Middleware C	onfiguration Wizard - Page 13 of 19			
Coherence Clusters		F		
Create Domain Templates			🔊 Dis	s <u>c</u> ard Changes
Administrator Account	Cluster Name		Cluster Listen P	ort
Domain Mode and JDK	defaultCoherenceCluster	0		
 Database Configuration Type 				
Component Datasources				
JDBC Test				
Advanced Configuration				
Administration Server				
<u>Node Manager</u>				
Managed Servers				
<u>Clusters</u>				
Coherence Clusters				
Machines				
 Deployments Targeting 				
 Services Targeting 				
<u>Configuration Summary</u>				
O Configuration Progress				
 End Of Configuration 				
Help		< <u>B</u> ack	<u>N</u> ext > <u>F</u> inish	Cancel

- 14. Click Next. The Machine window appears.
 - a. Click Add.
 - **b.** Enter the Name and the Node Manager Listen Address for the managed server.

😸 🕘 Fusion Middleware C	onfiguration Wizar	rd - Page	14 of 20				
Machines					FUSIC		
Create Domain Templates Administrator Account Domain Mode and JDK Database Configuration Type	Machine Unix Mach	hine gelete Enable	Post Bind GID	Enable	Post Bind UID	vode Manager Listen Address	d Changes Node Manager
Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Coherence Clusters Machines Assign Servers to Machines Deployments Targeting Services Targeting Configuration Summary Configuration Summary	new_UnixMachine_1		nobody		nobody	localhost •	5556
End Of Configuration				< <u>B</u>	ack <u>N</u> e	ext > Finish	Cancel

15. Click Next. The Assign Servers to Machines window appears. Add the Admin Server and the managed server to the computer.

😸 🗁 Fusion Middleware C	onfiguration Wizard - Page 15 of 20				
Assign Servers to Machir	nes				
🙊 Create Domain	Servers		Machines		
Templates			🗁 Unix Machine	hine 1	
Administrator Account			AdminSer	ver	
Domain Mode and JDK			📦 bdi-rms-s	erver	
Database Configuration Type					
Component Datasources					
IDBC Test		>			
Advanced Configuration					
Administration Server					
Vode Manager					
<u>Managed Servers</u>		8			
<u> <u> <u> </u> <u> Clusters</u> </u> </u>					
Coherence Clusters					
 Machines 					
Assign Servers to Machine					
 Deployments Targeting 					
Services Targeting					
Configuration Summary	Select one or more servers in the left pane an arrow button (∞) to assign the server or server	nd one	machine in the right	pane. The	n use the right
Configuration Progress	and bacon (>) to assign the server of server	3 10 11	e machine.		
End Of Configuration					
Help		< 5	Back <u>N</u> ext >	<u>Finish</u>	Cancel

16. Click Next. The Deployments Targeting window appears. Select wsm-pm from Deployments and add it to Admin Server in Targets.

Deployments Targeting			
Create Domain	Deployments		Targets
Templates	🗁 Library 🔔		➢ Server
Templaces	i UIX#11@12.2.1.0.0		🖃 🝗 AdminServer
Application Location	adf.oracle.businesseditor#1.0@12.2.1.		Application
Administrator Account	🧊 adf.oracle.domain#1.0@12.2.1.0.0		DMS Application#12.2.1.0.0
Manniberator Account	adf.oracle.domain.webapp#1.0@12.2.1		🥡 coherence-transaction-rar
Domain Mode and JDK	📦 em_common#12.4@12.1.0.4.0		📦 em
Database Configuration Type	📦 em_core_ppc_pojo_jar		📦 opss-rest
	@ em_error#12.4@12.1.0.4.0		i state-management-provider-r
Component Datasources	📄 em_sdkcore_ppc_public_pojo_jar 🛛 🗕		📦 wsm-pm
JDBC Test	igented ar #12.4@12.1.0.4.0		🖃 🧁 Library
Advanced Configuration	imagentsdkimpl_jar#12.4@12.1.0.4.0		WIX#11@12.2.1.0.0
Advanced Configuration	gemagentsdkimplpriv_jar#12.4@12.1.0.4		adf.oracle.businesseditor#1.
Administration Server	📦 emas		adf.oracle.domain#1.0@12.2
Node Manager	i emcore		iggi adf. oracle. domain. webapp#1
Node Hanager	📦 emcore_jar	8	em_common#12.4@12.1.0.4
Managed Servers	emcoreclient jar		📦 em core ppc pojo jar
Clusters	emcorecommon jar		em error#12.4@12.1.0.4.0
	i emcoreconsole jar		em sdkcore ppc public pojo
Coherence Clusters	emcoreintsdk jar#11.2.0.1.0@12.1.0.0.		emagentsdk jar#12.4@12.1.
Machines	emcorepbs jar		emagentsdkimpl jar#12.4@1
	emcoresdk jar#11.2.0.1.0@12.1.0.0.0		emagentsdkimplpriv jar#12.4
Assign Servers to Machines	emcoresdkimpl jar#11.2.0.1.0@12.1.0.		emas
Deployments Targeting			1 11111
Services Targeting	Select one or more Deployments in the left pan	e and e	one server or cluster in the right pane. Ther
<u>services rangeting</u>	use the right arrow button (>) to target the Appli	ications	s to the servers or clusters.
Configuration Summary			
Configuration Progress			
5-1000-0-0			
End Of Configuration			
	L		

17. Click Next. The Services Targeting window appears.



18. Click Next. The Configuration Summary window appears. Verify that all information described in this window is accurate.

 Fusion Middleware C Configuration Summary 	onfiguration Wizard - Page 19 of 21	
Configuration Summary Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Coherence Clusters Adatines Assign Servers to Machines Deployments Targeting Services Targeting	View: Deployment	EUSION MIDDLEWARE EUSION MIDDLEWARE Description Create a basic WebLogic Server Domain Location Name Oracle Corporation Location Name Oracle Enterprise Manager Description Enterprise Manager Oracle Corporation Location Name emasTemplate Description Oracle Corporation Location Name Oracle WSM Policy Manager Description Oracle Corporation Location Name Oracle WSM Policy Manager Description This extension template deploys a Author Oracle Corporation Location Name Oracle WSM Console - Core Description This extension template deploys a Author Oracle Corporation Location tert creating and configuring a new domain. To Demain Creating new home to the relevant page by
Configuration Summary Configuration Progress End Of Configuration	selecting its name in the left pane, or by using the	< <u>Back Next > Create</u> Cancel

19. Click Create. The Configuration Progress window displays a message when the domain is created successfully.



20. Click Next. The Configuration Success window displays the Domain Location and Admin Server URL once the configuration is complete.

😸 🕘 Fusion Middleware Co	onfiguration Wizard - Page 21 of 21		
End Of Configuration			
Create Domain			
Templates	 Oracle Weblogic Server Configuration New Domain int_domain Creation Succ 	eeded	
Application Location	Domain Location		
Administrator Account	Admin Server URL		
Domain Mode and JDK	http://localhost:37001/console		
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
V Node Manager			
Managed Servers			
Clusters			
Coherence Clusters			
Machines			
Assign Servers to Machines			
O Deployments Targeting			
Services Targeting			
Configuration Summary			
Configuration Progress			
End Of Configuration			
Help		< <u>B</u> ack <u>N</u> ext >	<u>Finish</u> Cancel

- 21. Click Finish to complete creating the WebLogic domain and managed servers.
- **22.** Add the following security policy to \$ORACLE_ HOME/wlserver/server/lib/weblogic.policy file.

```
grant codeBase "file:/<DOMAIN_HOME>/-" {
    permission java.security.AllPermission;
    permission oracle.security.jps.service.credstore.CredentialAccessPermission
    "credstoressp.credstore", "read,write,update,delete";
    permission oracle.security.jps.service.credstore.CredentialAccessPermission
    "credstoressp.credstore.*", "read,write,update,delete";
};
```

- **23.** Set JTA timeout to 43200.
 - **a.** Log in to Admin console
 - **b.** Click on the domain name
 - c. Select the JTA tab and change the timeout value to 43200.

Deploying BDI Batch Job Admininistration Applications for Edge Applications

Before starting the installation procedure, identify the retail applications that are in-scope for this installation. BDI requires at least 2 applications in-scope, a sender app and a receiver app. Each bdi-app must be deployed on it's own WebLogic managed server. Depending on the site specific deployment topology, create separate WebLogic domains OR managed servers to host the BDI apps in-scope.

Note: Repeat the procedures in this chapter for installing other applications that are in-scope.

Deploying BDI Batch Job Admin Applications for a Sender Application

This section describes the installation process for a sender app with the BDI-RMS app as an example.

Preparing the Database for BDI Batch Job Admin for RMS Installation

Before you begin installing BDI RMS Batch Job Admin, make sure you have the database schema created for BDI RMS Batch Job Admin.

Preparing the WebLogic Domain for BDI Batch Job Admin for RMS

- 1. Use the instructions provided in Chapter 4, "Deploying BDI Batch Job Admininistration Applications for Edge Applications" to install WebLogic 12.2.1.3 and create a domain.
- 2. Start the Admin and managed servers.

Deploying BDI RMS Batch Job Admin on the WebLogic

To deploy the BDI RMS Batch Job Admin war, take the following steps.

- 1. Download BdiIntJobAdminPak16.0.0ForRms16.0.0_eng_ga.zip to \$BDI_HOME.
- **2.** Unzip the downloaded archive. The Bdi Job home directory will be created under the current directory.

unzip BdiIntJobAdminPak16.0.0ForRms16.0.0_eng_ga.zip

This command extracts the archive. The relevant directories for the installation are shown (There are more directories than what is shown).

```
bdi-int-rms-job-home

bin

bin

bdi-job-admin-

deployer.sh.sh

conf

bdi-job-admin-

deployment-env-info.json

security

setup-data

ddl

dml
```

3. Edit the rms job configuration file to point to deployment environment (conf/bdi-job-admin-deployment-env-info.json) as follows:

cd bdi-int-rms-job-home/conf

- vi bdi-job-admin-deployment-env-info.json
- 4. Provide the following values in the JSON file.

Configuration Property	Description
BdiRmsJobAdminDataSource -> jdbcUrl	The JDBC URL for the Oracle database where the RMS integration schema resides.
BdiRmsReceiverServiceDataSourc e -> jdbcUrl	The JDBC URL for the Oracle database where the RMS integration schema resides. BdiRmsJobAdminDataSource and BdiRmsReceiverServiceDataSource can use the same jdbcUrl.
BatchInfraDataSource -> jdbcUrl	The JDBC URL for the schema created using RCU. The schema user is <prefix>_wls (e.g. INT_WLS). The value of prefix that you provided in schema creation using RCU.</prefix>
JobAdminAppServer -> weblogicDomainName	The domain name where BDI RMS Admin app is deployed.
JobAdminAppServer->weblogicD omainHome	The domain path where BDIRMS Adminapp is deployed
JobAdminAppServer -> weblogicDomainAdminServerUrl	Admin Server URL of the BDI RMS Admin App - http:// <admin host="">:<admin port=""></admin></admin>
JobAdminAppServer->weblogicD omainAdminServerProtocol	AdminServer protocol which is by default t3, For SSL deployment update to t3s.
JobAdminAppServer -> weblogicDomainAdminServerHo st	Host Name of the BDI RMS Admin Server
JobAdminAppServer -> weblogicDomainAdminServerPor t	BDI RMS Admin Server Port
JobAdminAppServer -> weblogicDomainTargetManagedS erverName	Managed Server Name where BDI RMS Admin App is installed (e.g. bdi-rms-server)
JobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI RMS http:// <host>:<managed server<br="">port>/bdi-rms-batch-job-admin</managed></host>

Configuration Property	Description
RxmJobAdminAppServer ->	Job Admin URL of BDI RXM
jobAdminUiUrl	http:// <host>:<rxm managed="" server<br="">port>/bdi-rxm-batch-job-admin</rxm></host>
SimJobAdminAppServer ->	Job Admin URL of BDI SIM
jobAdminUiUrl	http:// <host>:<sim managed="" server<br="">port>/bdi-sim-batch-job-admin</sim></host>

Note: The alias names in the configuration files should not be changed.

5. Run the deployer script to create the data sources and deploy BDI RMS Batch Job Admin.

```
cd bdi-int-rms-job-home/bin
bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app
```

/bdi-home1/bdi	-rms-home/bin\$ bdi-job-admin-deployer.sh
log4j:WARN No appenders could be	found for logger (com.oracle.retail.integration.common.security.credential.CredentialStoreManager).
log4j:WARN Please initialize the	log4j system properly.
USAGE: JobAdminDeployer SECURITY_	OPTION TASK_ACTION
a shaded as a lower of a start of	
: JobAdminuepioyer {-setup-c	redentials -use-existing-credentials} -deploy-job-admin-app
SECURITY OPTION	· One of the following SECURITY options must be used.
SECONTR_OFFICE	Tone of the foctowing secont for operations have be used.
-setup-credentials	: Setup AppServer and DB user/password and save to wallet.
	: Edit the bdi-job-admin-deployment-env-info.json config file before setting up credentials.
-use-existing-credentials	: Use previously setup AppServer and DB user/passwords from wallet.
-	
TASK_ACTION	: The following TASK_ACTION option must be used.
And the second second second	
-deploy-job-admin-app	: Configures weblogic Server and deploy the job-admin application.
/bdi-bome1/bdi	-rms.home/hip5_hdi.ioh.admin.donlovar.shsatup.credenti3lsdonlov.ioh.admin.ann
/bdt-nomer/bdt	- The shower of the back-job-admin-deproyer is a second redencial second prove admin-app

6. Enter the values prompted by the script for following credentials aliases. JobAdmin user has more privileges (e.g change configuration and run jobs from JobAdmin UI) than JobOperator user. JobOperator can run batch jobs where as JobMonitor has just read privileges.

Alias	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
bdiJobAdminUiUserAlias	Credentials for Admin Role user for Job Admin app
bdiJobOperatorUiUserAlias	Credentials for Operator Role user for Job Admin app
bdiJobMonitorUiUserAlias	Credentials for Monitor Role user for Job Admin app
bdiJobAdminDataSourceUserAlias	Credentials for the Data Source of the Job Admin Schema
bdiRmsReceiverServiceDataSourceUserAli as	Credentials for the Data Source of the Job Receiver Schema
batchInfraDataSourceUserAlias	Credentials for the Data Source of the Batch Infra Schema
rxmJobAdminBaseUrlUserAlias	BDI RXM job admin app credentials
simJobAdminBaseUrlUserAlias	BDI SIM job admin app credentials

Note: If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the -use-existing-credentials option as follows, and you will not be prompted for the credentials again for the deployment.

bdi-job-admin-deployer.sh -use-existing-credentials -deploy-job-admin-app

- 7. Deployer script deploys BDI RMS Batch Job Admin to the managed server.
- **8.** Restrict access to the bdi-int-rms-job-home folder:

```
cd bdi-int-rms-job-home
chmod -R 700 .
```

Testing the Deployment

After you deploy to the server successfully, BDI RMS Batch Job Admin can be accessed using the following URL:

http://<server>:<port>/bdi-rms-batch-job-admin

Log in using credentials provided during the installation and verify that jobs are displayed in the Manage Batch Jobs tab and configuration is displayed in the Manage Configurations tab.

		⊤ C S - Google	2 点 自 4	×π		
CACLE BDI RMS BATCH JOB ADMIN Wekone. Fri Nov 11 0214 Fri Nov 11 0214 Fri Nov 11 0214						
tem Summary						
Batch Application System Health BDI-RMS	Total Jobs Total E	executions	Total Succe	ssful Executions 838	Total Failed Executions 151	
est Job Executions						
				Enter job	name to search	↓ 0
Job Name	Family	Instance Id	Execution Id	Start Time	Status	
Job Name DiffGrp_Fnd_DownloaderAndTransporterToRxmJob	Family DiffGrp	Instance Id 10190	Execution Id 10212	Start Time Thu Nov 10 23.18.56 PS	Status T 2016 COMPLETED	
Job Name DiffGrp_Fnd_DownloaderAndTransporterToRxmJob Store_Fnd_DownloaderAndTransporterToRxmJob	Family DiffGrp Store	Instance Id 10190 10176	Execution Id 10212 10198	Start Time Thu Nov 10 23.18.56 PS	T 2016 COMPLETED COMPLETED	
Job Name DffGrp_frd_DownloaderAndTransporterTioRumJob Store_frd_DownloaderAndTransporterTioRumJob Dff_Frd_DownloaderAndTransporterTioRumJob	Family DiffGrp Store Diff	Instance Id 10190 10176 10164	Execution Id 10212 10198 10186	Start Time Thu Nov 10 23:18:56 PS	T 2016 COMPLETED COMPLETED COMPLETED	
Job Name DIffGrp_Fnd_DownloaderAndTransporterToRxm.bb Store_Fnd_DownloaderAndTransporterToRxm.bb Dtf_Fnd_DownloaderAndTransporterToRxm.bb StoreAddr_Fnd_DownloaderAndTransporterToRxm.bb	Family DiffGrp Store Diff StoreAddr	Instance Id 10190 10176 10164 10152	Execution Id 10212 10198 10186 10174	Start Time Thu Nov 10 23:18:56 PS Thu Nov 10 23:00:02 PS	Status 1 2016 COMPLETED COMPLETED COMPLETED 1 2016 COMPLETED	
Job Name DiffGrp_Fnd_DownloaderAndTransporterToRumJob Store_Fnd_DownloaderAndTransporterToRumJob Diff_Fnd_DownloaderAndTransporterToRumJob StoreAddr_Fnd_DownloaderAndTransporterToRumJob Relatedemt_Fnd_DownloaderAndTransporterToRumJob	Family DtffGrp Store Dtf StoreAddr Relateditem	Instance Id 10190 10176 10164 10152 10127	Execution Id 10212 10198 10186 10174 10149	Start Time Thu Nov 10 23.18.56 PS Thu Nov 10 23.00 02 PS Thu Nov 10 22.50 02 PS	Status 1 2016 COMPLETED COMPLETED COMPLETED 1 2016 COMPLETED 1 2016 COMPLETED	
Job Name DIRGrp_Fnd_DownloaderAndTransporterToRumJob Store_Fnd_DownloaderAndTransporterToRumJob DRF_Fnd_DownloaderAndTransporterToRumJob StoreAddr_Fnd_DownloaderAndTransporterToRumJob DRF_Fnd_DownloaderAndTransporterToRumJob DRF_Fnd_DownloaderAndTransporterToRumJob	Family DtfGrp Store Dtf StoreAddr Relatedtem Dtf Dtf	Instance Id 10190 10176 10164 10152 10127 10113	Execution Id 10212 10198 10186 10186 10174 10174 10149 10135	Start Time Thu Nov 10 23 18 56 PS Thu Nov 10 23 00 02 PS Thu Nov 10 22 50 02 PS Thu Nov 10 22 39 02 PS	Status 1 2016 COMPLETED COMPLETED COMPLETED 1 2016 COMPLETED 1 2016 COMPLETED 1 2016 COMPLETED 1 2016 COMPLETED	
Job Name DIffGrp_Fnd_DownloaderAndTransporterToRumJob Store_Fnd_DownloaderAndTransporterToRumJob Dtf_Fnd_DownloaderAndTransporterToRumJob Relatedtem_Fnd_DownloaderAndTransporterToRumJob Dtf_Fnd_DownloaderAndTransporterToRumJob Metcritiver_Fnd_DownloaderAndTransporterToRumJob	Family DtfGrp OtfGrp Otf	Instance Id 10190 10176 10164 10152 10127 10113 10098	Execution Id 10212 10198 10186 10174 10149 10135 10120	Start Time Thu Nov 10 23 18 56 PS Thu Nov 10 23 00 02 PS Thu Nov 10 22 50 02 PS Thu Nov 10 22 30 02 PS Thu Nov 10 22 20 02 PS	Status 1 2016 COMPLETED COMPLETED COMPLETED 1 2016 COMPLETED	
Job Name DIRGrp_Frd_DownloaderAndTransporterToRkmubb Store_Frd_DownloaderAndTransporterToRkmubb Otff_Frd_DownloaderAndTransporterToRkmubb StoreAdvf_Frd_DownloaderAndTransporterToRkmubb Otff_Frd_DownloaderAndTransporterToRkmubb Otff_Frd_DownloaderAndTransporterToRkmubb MetchNiter_Frd_DownloaderAndTransporterToRkmubb Itemt.ckFrd_DownloaderAndTransporterToRkmubb	Family DtfGrp DtfGrp Dtf Store Dtf StoreAddr Relateditem Dtf MerchHer ltenLoc	Instance Id 10190 10176 10164 10152 10152 10177 10113 10098 10081	Execution Id 10212 10198 10186 10174 10149 10135 10120 10103	Start Time Thu Nev 10 23 18 56 PS Thu Nev 10 23 00 02 PS Thu Nev 10 22 50 02 PS Thu Nev 10 22 30 02 PS	Status 1 2016 COMPLETED COMPLETED COMPLETED 1 2016 COMPLETED	
Job Name DIRGrp_Fnd_DownloaderAndTransporterToRumubb DIR_Fnd_DownloaderAndTransporterToRumubb DIR_Fnd_DownloaderAndTransporterToRumubb Restatedtem_Fnd_DownloaderAndTransporterToRumubb DIR_Fnd_DownloaderAndTransporterToRumubb Merchiter_Fnd_DownloaderAndTransporterToRumubb ItemLoc_Fnd_DownloaderAndTransporterToRumubb DIR_Fnd_DownloaderAndTransporterToRumubb DIR_Fnd	Pamity DiffGrp Store Store Diff StoreAdr Relateditem Diff MicrCH-liser BenLoc Diff	Instance Id 10190 10176 10164 10152 10127 10113 10098 10061 10069	Execution Id 10212 10198 10185 10174 10149 10135 10120 10103 10091	Start Time Thu Hov 10 23 18 56 PS Thu Hov 10 23 10 25 002 PS Thu Hov 10 23 000 2PS Thu Hov 10 22 500 2PS Thu Hov 10 22 300 2PS Thu Hov 10 22 300 2PS Thu Hov 10 22 300 2PS Thu Hov 10 22 40 2PS Thu Hov 10 22 47 4P FS	Status 7 2016 COMPLETED COMPLETED COMPLETED 1 2016 COMPLETED	
Job Name DIRGep_End_DownloaderAndTransporterToRemulob Store_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob StoreAddr_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob ItemLoz_Fnd_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob Dirtt_End_DownloaderAndTransporterToRemulob	Pamity DiffGrp Store Off Store Off StoreAddr Relateditem Off MerchHor RemLoc Off RemLoc Off RemVor	Instance Id 10190 10176 10176 10152 10152 10152 10173 10098 10081 10069 10069	Execution Id 10212 Id 10188 Id 10196 Id 10174 Id 10135 Id 100130 Id 100091 Id	Start Time Thu Nov 10 23.16.56 PS Thu Nov 10 23.00.02 PS' Thu Nov 10 23.00.02 PS' Thu Nov 10 22.50 02 PS' Thu Nov 10 22.00 2PS' Thu Nov 10 22.00 2PS'	Status 12016 COMPLETED COMPLETED COMPLETED 12016 COMPLETED	

Creating Outbound Interface tables for BDI RMS

- 1. Go to the \$BDI_HOME/bdi-int-rms-job-home/setup-data/ddl folder.
- **2.** Run the following sql files provided in this folder in the BDI RMS database schema:

Note: The sql files should be executed in the order listed below.

outbound and inbound tables sql's (if present)

- BdiInterfaceControl_Out_DataControl_Seq.sql (if present)
- BdiInterfaceControl_Out_DataControl_Spec.sql (if present)
- BdiInterfaceControl Out DataControl Body.sql (if present)
- BdiInterfaceControl_In_DataControl_Spec.sql (if present)
- BdiInterfaceControl_In_DataControl_Body.sql (if present)
- SQL Packages spec followed by body (if present)

Note: Skip execution of the following sql files:

- BDI_BATCH_JOB_INFRA_CREATE.sql
- BDI_BATCH_JOB_INFRA_DROP.sql
- BDI_RECEIVER_INFRA_CREATE.sql
- BDI_RECEIVER_INFRA_DROP.sql
- **3.** DDL generates interface tables and PL/SQL packages.

Deploying BDI Batch Job Admin Application for a Receiver Application

This section describes the installation process for a receiver app with the BDI-RXM app as an example.

Preparing the Database for BDI RXM Batch Job Admin Installation

Before you begin installing BDI RXM Batch Job Admin, make sure you have the database schema created for BDI RXM Batch Job Admin.

Preparing the WebLogic Domain for BDI Batch Job Admin for RXM

- **1.** Use the instructions provided above to install WebLogic 12.2.1.3 and create a domain.
- 2. Start the Admin and managed servers.

Deploying BDI RXM Batch Job Admin on the WebLogic

To deploy the BDI RXM Batch Job Admin war, take the following steps.

- 1. Download BdiIntJobAdminPak16.0.0ForRxm16.0.0_eng_ga.zip to \$BDI_HOME.
- **2.** Unzip the downloaded archive. The BDI Job home directory will be created under the current directory.

unzip BdiIntJobAdminPak16.0.0ForRxm16.0.0_eng_ga.zip

This command extracts the archive. The relevant directories for the installation are shown (There are more directories than what is shown).

```
bdi-int-rxm-job-home

bin

bin

bdi-job-admin-

deployer.sh.sh

conf

bdi-job-admin-

deployment-env-info.json

security

setup-data

ddl

ddl

dml
```

3. Edit bdi-job-admin-deployment-env-info.json as follows:

```
cd bdi-int-rxm-job-home/conf
```

vi bdi-job-admin-deployment-env-info.json

4. Provide the following values in the JSON file.

Configuration Property	Description
BdiRxmJobAdminDataSource ->jdbcUrl	The JDBC URL for the Oracle database where the RXM integration schema resides.
BdiRxmReceiverServiceDataSource -> jdbcUrl	The JDBC URL for the Oracle database where the RXM integration schema resides. BdiRxmJobAdminDataSource and BdiRxmReceiverServiceDataSource can use the same jdbcUrl.
BatchInfraDataSource -> jdbcUrl	The JDBC URL for the schema created using RCU. The schema user is <prefix>_ wls (e.g. INT_WLS). The value of prefix that you provided in schema creation using RCU.</prefix>
JobAdminAppServer -> weblogicDomainName	The domain name where BDI RXM Admin app is deployed
JobAdminAppServer -> weblogicDomainHome	The domain home directory of WebLogic where BDI RXM Admin app is deployed
JobAdminAppServer -> weblogicDomainAdminServerUrl	Admin Server URL of the BDI RXM Admin App - http:// <admin host>:<admin port=""></admin></admin
JobAdminAppServer->weblogicDomainA dminServerProtocol	AdminServer protocol which is by default t3, For SSL deployment update to t3s.
JobAdminAppServer -> weblogicDomainAdminServerHost	Host Name of the BDI RXM Admin Server
JobAdminAppServer -> weblogicDomainAdminServerPort	BDI RXM Admin Server Port
JobAdminAppServer -> weblogicDomainTargetManagedServerNa me	Managed Server Name where BDI RXM Admin App is installed (e.g. bdi-rxm-server)
JobAdminAppServer -> jobAdminUiUrl	Job Admin URL of BDI RXM
	http:// <host>:<bdi managed="" rxm="" server<br="">port>/bdi-rxm-batch-job-admin</bdi></host>

Configuration Property	Description
RmsJobAdminAppServer ->	Job Admin URL of BDI RMS
jobAdminUiUrl	http:// <host>:<bdi managed="" rms="" server<="" td=""></bdi></host>

5. Run the deployer script to create the data sources and deploy BDI RXM Batch Job Admin.

```
cd bdi-int-rxm-job-home/bin
bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app
```

/bdi-home1/bdi Extracting jars from jps-wallet-al log4j:WARN No appenders could be f log4j:WARN Please initialize the l	rxm-home/bin\$ bdi-job-admin-deployer.sh l. ound for logger (com.oracle.retail.integration.common.security.credential.CredentialStoreManager). og4j system properly.
USAGE: JobAdminDeployer SECURITY_C	DPTION TASK_ACTION
: JobAdminDeployer {-setup-cr	redentials -use-existing-credentials} -deploy-job-admin-app
SECURITY_OPTION	: One of the following SECURITY options must be used.
-setup-credentials	: Setup AppServer and DB user/password and save to wallet. : Edit the bdi-job-admin-deployment-env-info.json config file before setting up credentials.
-use-existing-credentials	: Use previously setup AppServer and DB user/passwords from wallet.
TASK_ACTION	: The following TASK_ACTION option must be used.
-deploy-job-admin-app :	Configures WebLogic Server and deploy the job-admin application.
/bdi-home1/bdi-	rxm-home/bin\$ bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app

6. Enter the values prompted by the script for the following credential aliases. JobAdmin user has more privileges(e.g change configuration and run jobs from JobAdmin UI) than JobOperator user. JobOperator can run batch jobs where as JobMonitor has just read privileges.

Alias	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
bdiJobAdminUiUserAlias	Credentials for Admin Role user for Job Admin app
bdiJobOperatorUiUserAlias	Credentials for Operator Role user for Job Admin app
bdiJobMonitorUiUserAlias	Credentials for Monitor Role user for Job Admin app
bdiJobAdminDataSourceUserAlias	Credentials for the Data Source of the Job Admin Schema
bdiRxmReceiverServiceDataSourceUserAli as	Credentials for the Data Source of the Job Receiver Schema
batchInfraDataSourceUserAlias	Credentials for the Data Source of the Batch Infra Schema
rmsJobAdminBaseUrlUserAlias	BDI RMS job admin app credentials

Note: If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the -use-existing-credentials option as follows, and you will not be prompted for the credentials again for the deployment.

bdi-job-admin-deployer.sh -use-existing-credentials -deploy-job-admin-app

- 7. Deployer script deploys BDI RXM Batch Job Admin to the server.
- 8. Restrict access to the bdi-int-rxm-job-home folder:

```
cd bdi-int-rms-job-home chmod -R 700 .
```

Testing the Deployment

After you deploy to the server successfully, the BDI RXM Batch Job Admin can be accessed using the following URL:

http://<server>:<port>/bdi-rxm-batch-job-admin

Log in using credentials provided during the installation and verify that jobs are displayed in the Manage Batch Jobs tab and configuration is displayed in the Manage Configurations tab.

						Welcome, bdirxmadmin Thu Nov 17 11:23 EST 2016
tch Summary Mana	ge Batch Jobs Trac	e Data 🔰 Diagno	stics Manage	Configurations	System Logs	
tem Summary						
Batch Application BDI-RXM	System Health	Total Jobs 24	Total Executi 687	To	tal Successful Executions 616	Total Failed Executions 71
st Job Executions					Enter inh name to search	
Job N	1000	Eamily	Instance Id	Execution Id	Start Time	Cratue
Diff Fnd Up	loader.lob	Diff	7600	7880	ount time	COMPLETED
Diff Fnd Receiv	erCleanupJob	Diff	7599	7879		COMPLETED
Diff_Fnd_Receiv	erCleanupJob	Diff	7597	7877		COMPLETED
Diff_Fnd_Up	loaderJob	Diff	7586	7866		COMPLETED
Diff_Fnd_Receiv	erCleanupJob	Diff	7585	7865	Thu Nov 17 09:52:11 EST 20	16 COMPLETED
Diff_Fnd_Receiv	erCleanupJob	Diff	7583	7863		COMPLETED
Diff_Fnd_Up	loader.Job	Diff	7572	7852		COMPLETED
Diff_Fnd_Receiv	erCleanupJob	Diff	7571	7851		COMPLETED
Diff_Fnd_Up	loader.Job	Diff	7559	7839	Thu Nov 17 09:36:56 EST 20	016 COMPLETED
Diff_Fnd_Up	loaderJob	Diff	7546	7826		COMPLETED
DiffGrp End L	Iploader.lob	DiffGrp	7521	7801	Thu Nov 17 09:02:38 EST 20	COMPLETED

Creating Inbound Interface tables for BDI RXM

- 1. Go to \$BDI_HOME/bdi-int-rxm-job-home/setup-data/ddl folder.
- 2. Run the DDL provided in this folder in the BDI RXM database schema.
- 3. DDL generates the inbound interface tables for RXM.

Process Flow Installation

Prerequisites

The Process Flow application has the same tech stack requirements mentioned in the beginning of this document for JDK, WebLogic domain, and database. Before installing the Process Flow application install the following infrastructure components for the application.

- A WebLogic domain with JRF for the application
- A database schema for the Process Flow application

The recommended java VM memory setting for the Process Flow application domain is:

-Xms1024m -Xmx2048m

Install the Process Flow Application

Perform the following procedure to install the Process Flow application:

- 1. Download the process flow archive BdiProcessFlow16.0.0ForAll16.x.xApps_eng_ ga.zip
- **2.** Unzip the downloaded archive. The Process Home directory will be created under the current directory.

unzip BdiProcessFlow16.0.0ForAll16.x.xApps_eng_ga.zip This command extracts the archive. The relevant directories for the installation are shown below (There are more directories than what is shown).



3. Modify process flow configuration

=

file(conf/bdi-process-flow-admin-deployment-env-info.json) to match the deployment environment. While you can change many values to match your requirements, here is a table of a minimum set of configuration values that you need to modify for process flow application.

Note: The alias names in the configuration files should not be changed.

Configuration Field	Description
ProcessFlowAdminDataSource ->jdbcUrl	JDBC URL for the process flow schema. Change this value to match the environment
ProcessFlowAdminDataSource ->weblogicDomainName	Name of the WebLogic domain where the process flow application is deployed
ProcessFlowAdminDataSource ->weblogicDomainHome	WebLogic Domain home directory
ProcessFlowAdminAppServer- > weblogicDomainProtocol	WebLogic admin server protocol is by default t3, if SSL configured then update to t3s.
ProcessFlowAdminDataSource ->weblogicDomainAdminServerUrl	WebLogic Admin server URL
ProcessFlowAdminDataSource ->weblogicDomainAdminServerHost	Host name of WebLogic Admin Server
ProcessFlowAdminDataSource ->weblogicDomainAdminServerPort	WebLogic admin server port
ProcessFlowAdminDataSource ->weblogicDomainTargetManagedServerN ame	Managed Server name where Process Flow is hosted
ProcessFlowAdminDataSource ->processFlowAdminUiUrl	Process Flow admin app URL. Update only the host and port

Configuration Field	Description
RmsJobAdminAppServer>jobAdminUiU rl	BDI RMS job admin URL
SimJobAdminAppServer>jobAdminUiUr l	BDI SIM job admin URL
RxmJobAdminAppServer>jobAdminUiU rl	BDI RXM job admin URL
RmsAppJobAdminAppServer -> jobAdminUiUrl	RMSAPP job admin URL
RxmAppJobAdminAppServer -> jobAdminUiUrl	RXMAPP job admin URL
SimAppJobAdminAppServer -> jobAdminUiUrl	SIMAPP job admin URL

4. Determine which flows are in scope for your deployment. Copy the flows from bdi-process-home/setup-data/dsl/available_process_flow_options to bdi-process-home/setup-data/dsl/flows-in-scope.

For example, for integration between only RMS and RXM, the rms_rxm-no_split_ flows files would be copied:

cp bdi-process-home/setup-data/dsl/available_process_flow_options/rms_ rxm-no-split-flows/* bdi-process-home/setup-data/dsl/flows-in-scope/.

5. Run the deployer. Make sure that the WebLogic server is running before issuing the following command.

cd bin

```
bdi-process-flow-admin-deployer.sh -setup-credentials
-deploy-process-flow-admin-app
```

The process flow deployer will prompt for username and password for the following credential aliases:

Alias	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
processFlowAdminBaseUrlUserAlias	Credentials for Admin Role user for Process Flow Admin app
processFlowOperatorBaseUrlUserAlias	Credentials for Operator Role user for Process Flow Admin app
processFlowMonitorBaseUrlUserAlias	Credentials for Monitor Role user for Process Flow Admin app
bdiProcessFlowAdminDataSourceUserAlia s	Credentials for the Data Source of the Process Flow Schema
rmsJobAdminBaseUrlUserAlias	BDI RMS job admin app credentials
rxmJobAdminBaseUrlUserAlias	BDI RXM job admin app credentials
simJobAdminBaseUrlUserAlias	BDI SIM job admin app credentials
rmsappJobAdminBaseUrlUserAlias	RMS APP job admin credentials
rxmappJobAdminBaseUrlUserAlias	RXM APP job admin credentials
simappJobAdminBaseUrlUserAlias	SIM APP job admin credentials

Note: If you have already configured various credentials required for process flow, you can run the deployer with the following syntax. It will not ask the credentials again for the deployment.

bdi-process-flow-admin-deployer.sh -use-existing-credentials -deploy-process-flow-admin-app

- 6. Make sure the deployment step shows deployment success message at the end.
- 7. Restrict access to the bdi-process-home folder:

```
cd bdi-process-home
chmod -R 700 .
```

Verify Installation

If the process flow app is successfully deployed, you should be able to access the application at the URL http://<host>:<port>/bdi-process-flow/ The following is a sample screenshot of the process flow application. Make sure all the tabs of the application are properly displayed.

Total Processes Definitions	Total Process Executions	Failed Executions	Successful Execution	s Currently	Running Processes	
45	35		22		2	
one Days Exceptions Class MAR AN						
cess riow executions since www.hut						
				Enter process name to	search q	•
Process Name	Execution Id		Process Execution Start Time	Process Execution End Time	Process Status	
fGrp_Fnd_SubProcessFlow_From_RMS_ To_SM	DiffGrp_Fnd_SubProcessFlow_Fnom_RMS_To_SIM#0411126-d21c-4/7- a095-5/1067a641c2		Thu Sep 29 23:44:03 PDT 2016		PROCESS_STARTED	5
f_Fnd_SubProcessFlow_From_RMS_To_ SIM	Diff_Find_SubProcessFlow_From_RMS_To_SIMMafe66cb-6db1-468a a004606638a29366		Thu Sep 29 23:42:58 PDT 2016	Thu Sep 29 23:43:58 POT 2016	PROCESS_COMPLE ED	T
OrgHier_Find_ProcessFlow_From_RMS	OrgHer_Fnd_ProcessFlow_From_RMS4 4a8634d2a61	#98d7ccc8-26de-449b-818a- 8	Thu Sep 29 23:42:25 PDT 2016	Thu Sep 29 23:44:25 POT 2015	PROCESS_COMPLE ED	T
www.iStore_Tx_ProcessFlow_From_RMS	InvAvailStore_Tx_ProcessFlow_From_M MBb-d7db2bd31	RMS#d2106001-#52d-405e- d25	Thu Sep 29 23:42:14 PDT 2016	Thu Sep 29 23:43:16 POT 2016	PROCESS_COMPLE ED	T
nisherAddr_Find_ProcessFlow_From_RMS	FinisherAddr_Fnd_ProcessFlow_From_Rt eabee06/103	MS#ad4/08b-4da1-4fe4-94b5- 3	Thu Sep 29 23 42 07 PDT 2016	Thu Sep 29 23 42 07 POT 2016	PROCESS_FALED	

See the Oracle Retail Bulk Data Integration Implementation Guide for the operation details of the Process Flow application.

6

BDI Batch Scheduler Installation

Installation Prerequisites

The BDI Batch Scheduler supports the same tech stack and platform specifications as given in prior section in this installation guide. The following infrastructure is required for Scheduler application installation.

Preparing for Installation

- Before starting the installation, make sure a database schema has been created for the Scheduler application.
- Ensure that the WebLogic server where the scheduler application will be deployed is up and running.
- Download the BDI scheduler installer archive: BdiScheduler16.0.0ForAll16.x.xApps_eng_ga.zip
- Unzip/extract the archive to a target directory to run the installer. The bdi-scheduler-home directory will be created under the target directory with the artifacts.
- The following is part of the directory structure and artifacts that are extracted from the archive (not the complete list shown below).



Note: Any seed data schedule definition can be edited if required using the seed_data.sql file. To add a new schedule at the time of deployment, edit seed_data.sql to include an insert statement for the new schedule definition and add the corresponding <ScheduleName>_Action.sch file in the /setup-data/dsl directory. For more details, refer to the *Oracle Retail Bulk Data Integration Implementation Guide*.

Deploying Scheduler Application

1. Edit bdi-scheduler-admin-deployment-env-info.json (in bdi-scheduler-home/conf directory) with corresponding values matching the target deployment environment. Update the values of the following configuration properties.

Configuration Property	Description
DataSourceDef -> SchedulerAdminDataSource -> jdbcUrl	JDBC URL of the scheduler database schema
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainName	Name of the WebLogic domain where the scheduler application is deployed.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainHome	WebLogic Domain home directory.
MiddlewareServerDef->SchedulerAdminA ppServer->weblogicDomainAdminServerP rotocol	By default the protocol is t3 and if configured to SSL then update to t3s.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainAdminServerUrl	WebLogic Admin server URL. Example: t3:// <serverhostname>:8001</serverhostname>
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainAdminServerHost	Host name of WebLogic Admin server.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainAdminServerPort	WebLogic Admin server port.
MiddlewareServerDef -> SchedulerAdminAppServer -> weblogicDomainTargetManagedServerNa me	Managed Server name where the Scheduler application is deployed.
MiddlewareServerDef ->	Scheduler Admin app URL.
SchedulerAdminAppServer -> schedulerAdminUiUrl	http:// <serverhostname>:<managed server port>/bdi-scheduler</managed </serverhostname>
MiddlewareServerDef -> ProcessFlowAdminAppServer -> processFlowAdminUiUrl	BDI Process Flow app base URL. This URL will be used by the scheduler to connect to the process flow app to call process flows.
	Example: http:// <serverhostname>:8001/bdi-proc ess-flow</serverhostname>

2. Run the deployer script from the bdi-scheduler-home/bin directory. Use the -setup-credentials option to setup necessary credentials for the application and deploy.

bdi-scheduler-admin-deployer.sh -setup-credentials -deploy-scheduler-admin-app The deployer will prompt credentials for the following user aliases to be configured. Enter the corresponding username and password as required for each alias.

Alias Name	Description
bdiAppServerAdminServerUserAlias	WebLogic admin server credentials
bdiSchedulerAdminUiUserAlias	Credentials for the user with Admin Role for Scheduler Admin app
bdiSchedulerOperatorUiUserAlias	Credentials for the user with Operator Role for Scheduler Admin app
bdiSchedulerMonitorUiUserAlias	Credentials for the user with Monitor Role for Scheduler Admin app
bdiSchedulerAdminDataSourceUserAlias	Datasource credentials to connect to the Scheduler database schema
processFlowAdminBaseUrlUserAlias	Credentials of the process flow admin app

3. If you have already configured the credentials and can use the same credentials (typically when redeploying the app), you can run the deployer with the -use-existing-credentials option as follows, and you will not be prompted for the credentials again for the deployment.

```
bdi-scheduler-admin-deployer.sh -use-existing-credentials -deploy-scheduler-admin-app
```

4. Restrict access to the bdi-scheduler-home folder:

```
cd bdi-scheduler-home
chmod -R 700 .
```

Verifying Installation

Perform the following procedure to verify the BDI Batch Scheduler installation:

- 1. Verify that the deployer script has run successfully with no error. The scheduler application would have been deployed to the target environment.
- 2. Launch the Scheduler admin app via the URL http://<host>:<port>/bdi-scheduler/
- **3.** Verify you are able to access the URL by logging in using the admin or operator role.
- **4.** Verify that the list of schedules (created from seed data) is displayed in 'Manage Schedules' page of the app.
- 5. Ensure that all the schedules are in 'Active' status.
- **6.** A schedule can be in 'Disabled' status if no schedule action is loaded for the corresponding schedule or if the schedule action contains any forbidden keyword. The user needs to correct the schedule action and enable the schedule. For more details on this, please refer to the *Oracle Retail Bulk Data Integration Implementation Guide*.

t of Sched	of Schedules (45)						
0	Filter Schedule Name Schedules with name like this				Create Schedule		
Schedule Id	Schedule Name	Schedule Group	Schedule Start	Schedule Frequency	Schedule Next Run	Schedule Status	Schedule End
1	CodeDetail_Fnd_From_RMS_Schedule	CodeDetail	Sat Mar 12 00:00:00 GMT-06:00 2016	Daily	Thu Sep 29 00:00:00 GMT-06:00 2016	Active	Never
2	CodeHead_Fnd_From_RMS_Schedule	CodeHead	Sat Mar 12 00:05:00 GMT-06:00 2016	Daily	Thu Sep 29 00:05:00 GMT-06:00 2016	Active	Never
3	DeliverySlot_Fnd_From_RMS_Schedule	DeliverySlot	Sat Mar 12 00:10:00 GMT-06:00 2016	Daily	Thu Sep 29 00:10:00 GMT-06:00 2016	Active	Never
4	Diff_Fnd_From_RMS_Schedule	Diff	Sat Mar 12 00:15:00 GMT-06:00 2016	Daily	Thu Sep 29 00:15:00 GMT-06:00 2016	Active	Never
5	DiffGrp_Fnd_From_RMS_Schedule	Diff	Sat Mar 12 00:20:00 GMT-06:00 2016	Daily	Thu Sep 29 00:20:00 GMT-06:00 2016	Active	Never

Enabling Email Notification Alerts

Scheduler can send email alerts upon success or failure of schedule executions as specified in the schedule definitions. The following configuration is required for Scheduler email notification.

Mail Session configuration in WebLogic, for scheduler email notification:

- **1.** Go to the WebLogic Admin console of the environment where the scheduler app is deployed.
- 2. Navigate to Services -> Mail Sessions.
- **3.** Select 'New' to create a new mail session.
- 4. Enter the following details:

Name: BdiSchedulerMailSession

JNDI name: mail/BdiSchedulerMailSession

Session Username: A valid email id, preferably email-id of an administrator.

Session password: The password for the above email id.

5. Enter the following in the JavaMail properties:

mail.smtp.ssl.enable=true

mail.smtp.auth=true

mail.smtp.ssl.trust=<company's smtp mail server host name>

mail.smtp.port=<mail server smtps port, typically is 465>

mail.transport.protocol=smtps

mail.smtp.host=<company's smtp mail server host name>

mail.from=<A valid email-id for 'from email address' when email is sent>

- **6.** Click Next. In the Mail Session Targets, select the managed server where the scheduler application is deployed.
- **7.** Finish creating the mail session.

Note: For more information on configuring Mail sessions on WebLogic, see the *Oracle*® *WebLogic Administrator's Guide 12c Release*.

A

Appendix: Installation Order

This section provides a guideline for the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use only some of the applications, the order is still valid, less the applications not being installed.

Note: The installation order is not meant to imply integration between products.

Enterprise Installation Order

- 1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM)
- 2. Oracle Retail Sales Audit (ReSA)
- 3. Oracle Retail Extract, Transform, Load (RETL)
- 4. Oracle Retail Warehouse Management System (RWMS)
- 5. Oracle Retail Invoice Matching (ReIM)
- 6. Oracle Retail Price Management (RPM)
- 7. Oracle Retail Allocation
- 8. Oracle Retail Mobile Merchandising (ORMM)
- 9. Oracle Retail Customer Engagement (ORCE)
- **10.** Oracle Retail Xstore Office
- **11.** Oracle Retail Xstore Point-of-Service, including Xstore Point-of-Service for Grocery, and including Xstore Mobile
- 12. Oracle Retail Xstore Environment
- 13. Oracle Retail EFTLink
- 14. Oracle Retail Store Inventory Management (SIM), including Mobile SIM
- 15. Oracle Retail Predictive Application Server (RPAS)
- 16. Oracle Retail Predictive Application Server Batch Script Architecture (RPAS BSA)
- 17. Oracle Retail Demand Forecasting (RDF)
- Oracle Retail Category Management Planning and Optimization/Macro Space Optimization (CMPO/MSO)
- 19. Oracle Retail Replenishment Optimization (RO)

- **20.** Oracle Retail Regular Price Optimization (RPO)
- **21.** Oracle Retail Merchandise Financial Planning (MFP)
- 22. Oracle Retail Size Profile Optimization (SPO)
- **23.** Oracle Retail Assortment Planning (AP)
- 24. Oracle Retail Item Planning (IP)
- 25. Oracle Retail Item Planning Configured for COE (IP COE)
- 26. Oracle Retail Advanced Inventory Planning (AIP)
- 27. Oracle Retail Integration Bus (RIB)
- 28. Oracle Retail Services Backbone (RSB)
- 29. Oracle Retail Financial Integration (ORFI)
- **30.** Oracle Retail Bulk Data Integration (BDI)
- **31.** Oracle Retail Integration Console (RIC)
- 32. Oracle Commerce Retail Extension Module (ORXM)
- 33. Oracle Retail Data Extractor for Merchandising
- **34.** Oracle Retail Clearance Optimization Engine (COE)
- **35.** Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
- **36.** Oracle Retail Insights, including Retail Merchandising Insights (previously Retail Merchandising Analytics) and Retail Customer Insights (previously Retail Customer Analytics)
- 37. Oracle Retail Order Broker