Oracle® Retail Omnichannel Cloud Data Service Installation Guide Release 19.0.0 F25867-01

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Oracle® Retail Omnichannel Cloud Data Service Installation Guide, Release 19.0.0

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Contents

56	end US Your Comments	VII
Pr	reface	ix
	Audience	ix
	Documentation Accessibility	ix
	Related Documents	ix
	Customer Support	ix
	Review Patch Documentation	x
	Improved Process for Oracle Retail Documentation Corrections	x
	Oracle Retail Documentation on the Oracle Technology Network	xi
	Conventions	xi
1	Introduction	
	OCDS Topology	1-2
2	Technical Specifications	
	Requesting Infrastructure Software	2-1
	Server Requirements	2-1
	Installation Sequence	2-2
	Software Dependencies	2-3
3	OCDS Schemas	
	Prerequisites	3-1
	Preparation	3-1
	Database Schema Population	3-1
	Enable REST Services on OCDS Database	3-2
	Secure OCDS Web Services on OCDS Database	
4	WebLogic Middleware	
	Installing WebLogic	4-1
	Creating Schemas with the Repository Creation Utility (RCU)	4-2
	Creating a WebLogic Domain with JRF	4-8
	Prerequisites	4-8
	WebLogic Domain Creation	
		N N

5 OCDS (BDI) Job Admin

Prerequisites	5-1
Preparation	5-1
Job Admin Installation	5-3
Verify Installation	5-5

6 OCDS (RIB) Injector

Prerequisites	6-1
Preparation	6-1
Injector Installation	6-2
Verify Installation	6-3

7 OCDS (ORDS) Web Services

Prerequisites	7-1
Preparation	7-1
Deploy ORDS	7-1
Verify Installation	7-3

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Oracle® Retail Omnichannel Cloud Data Service Installation Guide, 19.0.0

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Preface

The Oracle® Retail Omnichannel Cloud Data Service Installation Guide provides information about the processing of the Oracle Omnichannel Cloud Data Service (OCDS) data hub.

Audience

This guide is for technical personnel who configure, maintain and support, or use Oracle Retail Omnichannel Cloud Data Service.

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For more information, see the Oracle Retail documentation set.

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

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https://support.oracle.com

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, 19.0.0) or a later patch release (for example, 19.0.1). If you are installing the base release or additional patches, 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.html

An updated version of the applicable Oracle Retail document is indicated by 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

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

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

Conventions

The following text conventions are used in this document:

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

Introduction

1

Oracle Omnichannel Cloud Data Service (OCDS) is a data hub, enabling Oracle Retail Merchandising and Pricing applications to share foundation data with Oracle Retail Omnichannel applications. OCDS contains the following components:

- BDI Batch Job Admin Enables in-bound data flow into OCDS using Oracle Bulk Data Integration (BDI) technology. Job Admin has a User Interface (UI) to support the management of BDI batch Jobs.
- RIB Injector Enables in-bound data flow into OCDS from the Oracle Retail Integration Bus (RIB).
- ORDS Enables out-bound data flow from OCDS to Omnichannel Applications through the use of RESTful web services.



Figure 1–1 OCDS Components

OCDS Topology

The diagram below illustrates the basic deployment topology for OCDS. Alternatively, each OCDS component can be hosted in its own WebLogic Managed Server.

Figure 1–2 Basic Deployment



- **BDI-JA:** OCDS (BDI) Job Admin is the interface between the Oracle Retail Bulk Data Integration and OCDS, enabling BDI data to flow into the OCDS database.
- RIB-INJECTOR: OCDS (RIB) Injector is the interface between RIB infrastructure and OCDS; it listens for SOAP-based RIB messages containing incremental changes to data initially populated through BDI.
- **ORDS:** The OCDS (ORDS) Web Service exposes the data managed by OCDS to Omnichannel applications.

Technical Specifications

Oracle Omnichannel Cloud Data Service (OCDS) has several dependencies. 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, and so on) 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

The table below lists the server requirements

Supported On Versions Supported		
Database Server OS	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 11.2 Sparc (actual hardware or logical domains) 	

Supported On	Versions Supported
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
	Other Components:
	• Perl interpreter 5.0 or later
	 X-Windows interface
	 JDK 1.8 with latest security updates 64 bit
Application Server OS	OS certified with Oracle Fusion Middleware 12c. 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 Sparc (actual hardware or logical domains)
Application Server	Oracle Fusion Middleware 12c (12.2.1.3.0)
	Components:
	 Oracle WebLogic Server 12c (12.2.1.3.0)
	 Java: JDK 1.8+ latest security updates 64 bit
	Patches:
	 Patch 22648025: ILLEGALSTATEEXCEPTION WHEN INVOKING A WEBSERVICE/EJB IN WLS 12.2.1 (Oracle support account required)
Minimum required JAVA version for all operating systems	JDK 1.8+ latest security updates 64 bit

Installation Sequence

It is recommended that the installation of OCDS is performed in the order presented in this guide.

- 1. Create OCDS Schemas.
- **2.** Create a WebLogic Domain.
- 3. The following OCDS components can be installed and deployed in any order:
 - Install and deploy OCDS (BDI) Job Admin.
 - Install and deploy OCDS (RIB) Injector.
 - Install and deploy OCDS (ORDS) Web Services.

Software Dependencies

The installation and operation of Oracle Omnichannel Cloud Data Service (OCDS) depends several Oracle and third-party software, in addition to the OCDS distribution files. The following should be performed before starting the OCDS install process.

- Install Java JDK 8 or later.
- Install Oracle Database 12c (Release 12.1.0.2).
- Download Oracle Fusion Middleware (WebLogic 12.2.1.3.0).
- Download Oracle REST Data Services 19.2 (ords-19.2.0.199.1647zip).

https://www.oracle.com/database/technologies/appdev/rest-data-servicesv192-downloads.html

If upgrading from a previous Oracle REST Data Service follow the instructions provided in the download package.

OCDS Schemas

This chapter describes the instructions for building the OCDS schemas on an Oracle 12c Pluggable Database (PDB).

Prerequisites

- **1.** Oracle Database 12c (Release 12.1.0.2) has been installed.
- 2. Container Database (CDB) has been created.
- **3.** Pluggable Database (PDB) for OCDS schema has been created.
- 4. Configured ORDS 19.2 for the OCDS database:
 - Set the location of the ORDS configuration files

java -jar ords.war configdir </path/to/ords/config>

Configure database connection to the OCDS database

java -jar ords.war setup --database <database name>

• Configure the request routing rule for OCDS services

java -jar ords.war map-url --type base-path <path prefix>
<database name>

- **5.** The two OCDS database users have been created with the following names and empty schemas:
 - ocds_ifc
 - ocds_txn

Preparation

Perform the following procedure to prepare for these schema creation of the OCDS database. This archive file contains scripts to populate the two OCDS schemas, enable and secure the OCDS REST services.

 Unzip ocds-database-creation.zip. The location where the files were extracted will be referenced as <dbScripts> in the following steps.

Database Schema Population

Perform the following steps to populate the OCDS schemas.

1. Connect to the ocds_ifc schema and execute the following scripts:

- <dbScripts>/scripts/rtg_ifc/ddl/BDI_BATCH_JOB_INFRA_CREATE.sql
- <dbScripts>/scripts/rtg_ifc/ddl/BDI_RECEIVER_INFRA_CREATE.sql
- dbScripts>/scripts/rtg_ifc/ddl/ocds_ddl.sql
- **2.** Connect to the ocds_ifc schema as a user with permissions to grant access to tables in the ocds_ifc schema and execute the following scripts:
 - <dbScripts>/ocds_txn/plsql/Interface_Schema_Access.sql
- **3.** Connect to the ocds_txn schema and execute the following scripts:
 - <dbScripts>/scripts/ocds_txn/ddl/ocds-txn-ddl.sql
 - <dbScripts>/scripts/ocds_txn/plsql/ocds-txn-plsql.sql
- **4.** Connect to the ocds_txn schema as a user with permissions to grant access to packages on the ocds_txn schema and execute the following scripts:
 - <dbScripts>/scripts/ocds_ifc/plsql/Transaction_Schema_Access.sql
- **5.** Connect to the ocds_ifc schema and execute the following scripts:
 - <dbScripts>/scripts/ocds_ifc/plsql/ocds-ifc-plsql.sql

Enable REST Services on OCDS Database

Perform the following procedure to enable the OCDS web services on the $ocds_txn$ schema.

- 1. Connect to the ocds_txn schema and execute the following script:
 - <dbScriptRoot>/scripts/ocds_txn/rest/ocds-enable-rest.sql

Secure OCDS Web Services on OCDS Database

Perform the following procedure to secure the OCDS web services on the ${\tt ocds_txn}$ schema.

- 1. Connect to the ocds_txn schema and execute the following script:
 - dbScriptRoot>/scripts/ocds_txn/rest/ocds-secure-rest.sql

WebLogic Middleware

This chapter describes the procedure for installing and creating the WebLogic Middleware needed to host OCDS. Important information about the installation and deployment of a BDI Job Admin can be found in the *Oracle Retail Bulk Data Integration Installation Guide*.

Installing WebLogic

Obtain WebLogic 12c (12.2.1.3.0) by visiting the Oracle Technology Network and taking 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.
- **5.** Select the appropriate radio button and click **Next**. The Installation Location window appears.
- **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 (JRF and Enterprise Manager) and click **Next**. The installer performs the pre-requisite checks and ensures all required conditions are satisfied.
- **9.** When the prerequisite check completes successfully, click **Next**. The Security Updates window appears.
- **10.** Provide information and click **Next**.
- 11. Click Install. The Installation Progress window appears.
- **12.** Click **Next** when the installation completes. The Installation Complete window appears.

Creating Schemas with the Repository Creation Utility (RCU)

The installation of OCDS Job Admin and Injector components requires the existence of schemas in a database prior to installation. These schemas are created and loaded in your database using the Repository Creation Utility (RCU).

This section describes the instructions for running the RCU. See the Oracle Fusion Middleware documentation for detailed instructions on using the RCU.

The following steps will create Oracle AS Repository Components for:

- Common Infrastructure Services
- Oracle Platform Security Services (includes Audit Services)
- WebLogic Services
- 1. Launch the rcu from ORACE_HOME/oracle_common/bin.
- 2. Click Next.

Figure 4–1 Welcome Screen

3	Repository Creation Utility - Step 1 o	f 8	S (S)
Repository Creation Utilit	у		<
Welcome	Welcome to Repository Creation Utility 12.2.1.3.0 for Ora	acle Fusion Middleware.	
Create Repository	The Repository Creation Utility enables you to create and Oracle Fusion Middleware products	drop database schemas that are require	d for
Database Connection Details			
Select Components			
Schema Passwords			
Map Tablespaces			
🦕 <u>Summary</u>			
Completion Summary			
	Copyright © 1988,2017, Oracle and/or its affiliates. All rigi	hts reservad.	
Help		< Back Next > Fir	ish Cancel
Tash		Town &	Stantoor

3. Select System Load and Product Load, then click Next.



Figure 4–2 Create Repository Screen

4. Enter database credentials.

Figure 4–3 Database Connection Details Screen

X	Repository C	Creation Utility - Step 3 of 8		
Repository Creation Utility				<
Welcome Create Repository	<u>D</u> atabase Type:	Oracle Database		•
Database Connection Details Select Components Schema Passwords Map Tablespaces	Connection String Format: Connect String Host Name:	Connection Pgrameters C	onnection String	
Summary Completion Summary	P <u>o</u> rt: <u>S</u> ervice Name:	1521 occispab		
	Username: <u>P</u> assword: Rela:	sys		
×	For RAC database, specify VIF For SCAN enabled RAC datab	° name or one of the Node name as H pase, specify SCAN host as Host name	lost name. 2.	
Help			< <u>B</u> ack <u>N</u> ext > Ein	ish Cancel

5. Click **OK** after prerequisites check completes.

pository Creation Utility	нерозногу С	reation utility - Step 3 of 8	OR	ACLE	(\rightarrow)
			FUSION N	MIDDLEWARE	
Welcome	<u>D</u> atabase Type:	Oracle Database			
Database Connection Details	Connection String Format:	Connection Parameters	O Connection Str	ring	
Select Components	Connect String				
Schema Passwords	Host Name:	example			
map rabicipacco	Repository Creatio	n Utility - Checking Prereg	uisites	 (x) 	
Summary		, ,			
✓ Initiali ✓ Obtain	zing repository configuration in properties of the specified dat	netadata tabase	00:03.518(sec) 00:00.105(ms)		
V Check	requirement for specified data	abase	00:01.410(sec)		
Operation of	ompleted. Click OK to continue to	o next page.			
				<u>0</u> K	
	•				
2					

Figure 4–4 Database Connection Details - Checking Prerequisites

6. The database object created by the RCU will be used during the installation of OCDS (BDI) Job Admin and the OCDS Injector. Choose an appropriate prefix. In addition to the defaults, check the box for Oracle Platform Security Services.

Important: Keep track of the Prefix, Schema Owner names, and Passwords used in RCU, they will be needed to deploy OCDS components.

Figure 4–5 Select Components Screen

	Constitute unique susfituites all se	hanna avantaal in this saccing as a	and an an all the state of states and states	
Nelcome	schemas later.	nemas created in this session, so y	rou can easily locate, reference, and manag	eun
Create Repository				
Database Connection Details	Select existing prefix:			
Select Components	Create new prefix:	OCDSI		
Scheme Reserventie	0 2	Alpha numeric only. Cannot	start with a number. No special characters.	
Scheme 1 doowordo				
Map Tablespaces	Component		Schema Owner	
Summary	Oracle AS Repositor	y Components		
	■■AS Common Sch	emas	0000 070	
oomproton oommary	Common Infra	astructure Services		
		ing Service	LIMS	
	Audit Service	s s	OCDS IAU	
	Audit Service	s Append	OCDS IAU APPEND	
	Audit Service	s Viewer	OCDS_IAU_VIEWER	
	☐ Metadata Ser	vices	MDS	
	Weblogic Ser	vices	OCDS_WLS	
	* Mandatory component. Ma	andiatory components cannot be of	eselected.	

7. Click Next after Checking Component Prerequisites completes.

oository Creation Ut	ility	FU			
Welcome	Specify a unique prefix for all sch schemas later.	emas created in this session, so you can e	asily locate,	reference, a	nol manage th
Create Repository					
Database Connection Details	Select existing prefix:				
Select Components	Oreate new prefix:	OCDS			
Schema Passwords		Alpha numeric only. Cannot start with	та number. N	lo special ch	aracters.
Map Tablespaces	Repository Creation	Utility - Checking Prerequisites	\odot	×	
Summary Check	ing Component Prerequisites			iner	
Audit Services Append Audit Services Vewer Weblogic Services		00:00.100 00:00.100	(ms) (ms)		END VER
	* Mandatory component. Ma	nckatory components cannot be deselected	I.		

Figure 4–6 Components - Checking Prerequisites

8. Click OK, enter password, and then click Next.

Figure 4–7 Schema Passwords Screen

	Repos	itory Creation Utility - Step 5 of 8		~ ×
Repository Creation Utilit	ty			<
Welcome	Define passworols for m	ain and auxiliary schema users.		
Create Repository		s for all schemas		
Database Connection Details Select Components	Password:	Alpha numeric only. Cannot start with a num No special characters except: \$, #,] ber.	
Schema Passwords	-			
Map Tablespaces	Confirm Password:]	
Summary	🔵 Use <u>m</u> ain schema pa	sswords for auxiliary schemas		
		worlds for all scientes		
Help	11		cBack Next > Eir	tish Cancel

9. Click **Next** to accept Default Tablespaces, or click **Manage Tablespaces** for advanced handling, then click **Next**.

Figure 4–8 Map Tablespaces Screen

	Repository	Creation Utility - Step 6	of 8		\odot	×
Repository Creation Utilit	ty		FUSION		7)
Create Repository	Default and temporary tablesp To create new tablespaces or	aces for the selected comp modify existing tablespace	conents appear in the tabl s,use the Manage Tables;	e below. paces Button		
Database Connection Details					Manage <u>T</u> ablesp	aces
Select Components						
Colores Decements	Component	Schema Owner	Default Tablespace	TempTa	blespace	
<u>Schema Passwords</u>	Common Infrastructure S	OCDS_STB	*OCDS_STB	*OCDS_	IAS_TEMP	
Map Tablespaces	Oracle Platform Security	OCDS_OPSS	*OCDS_IAS_OPSS	+OCDS_	IAS_TEMP	
- · ·	Audit Services	OCDS_IAU	*OCDS_IAU	*OCDS_	IAS_TEMP	_
Summary	Audit Services Append	OCDS_IAU_APPEND	TOUDS_IAU	+OCDS_	IAS_TEMP	_
O Completion Summary	Weblogic Services	OCDS_IAU_VIEWER	+OCDS_MUS	+0005	AS TEMP	_
	Default tablessoces (seecifie)	a) in the configuration files)	are to be created unon o	onfirmation		
Help			< Back	Next >	inish Car	ncel

10. Click **OK** to confirm.

Figure 4–9 Confirm Tablespaces Prompt

<u>Welcome</u> Create Remeitory	Default and temporary tables			
Welcome	Default and temporany tables		FUSION M	DDLEWARE
Create Benneitany	To create new tablespaces or	paces for the selected or modify existing tablesp	omponents appear in the table b aces,use the Manage Tablespac	elow. es Button
C OTORIO TIODO SILOTY				
Database Connection Details				Manage Tablespa
Select Components				
Schema Racewords	Component	Schema Owner	Default Tablespace	TempTablespace
Scileina Fasswords	Common Infrastructure S.	OCDS_STB	*OCDS_STB	*OCDS_IAS_TEMP
Map Tablespaces	Oracle Platform Security	. OCDS_OPSS	+OCDS_IAS_OPSS	*OCDS_IAS_TEMP
	Audit Services	COCOS IAU	Confirmation	*OCDS_IAS_TEMP
Summary	Audit S neposit	tory Creation Utility -		TOCDS IAS TEMP
	Mahlag			HOCDS INS TEMP
		(<u>OK</u> <u>C</u> ancel	
	* Default tablespaces (specifie	ol in the configuration fi	les) are to be created upon cont	irmation.
	**			

11. Click **OK** to continue.

		Repository	Creation Utility - Ste	p 6 of 8			\odot
pository Crea	tion Utilit	у		FUSIO			
Welcome Create Repository		Default and temporary tables; To create new tablespaces or	paces for the selected co modify existing tablespa	mponents appear in the ta ces,use the Manage Table	ble below espaces B	v. utton	
Database Connection	on Details					Ma	.nage <u>T</u> ablesp
Select Components	<u>s</u>		1	1			
Schema Password	s	Component	Schema Owner	Default Tablespace		Temp Tabl	espace
	-	Oracle Platform Security	OCDS_STB	*OCDS_STB		OCDS_IA	S TEMP
Map rablespaces	3	A		HOODE INU		CODS_IA	S_TEMP
Summary		Repository Crea	tion Utility - Creating	lablespaces	\odot	⊗ DS_IA	S_TEMP
	v Validating	and Creating Tablespaces				DS_IA	S_TEMP
comprotion outline	TAT	,				125 145	STENIF
	- Cha	ek tablaanan a yanu iyamanta fa	r coloritori componente	00:00 101/mo	\		-
	✓ Che	ck tablespace requirements fo ate tablespaces in the reposito	r selected components ry database	00:00.101(ms 00:01.508(sec);)		_
	Operation	sck tablespace requirements fo ate tablespaces in the reposito i completed. Click OK to continue	r selected components ry database e to next page.	00:00.101(ms 00:01.506(sec))))		
	Operation	ck tablespace requirements fo ate tablespaces in the reposito completed. Click OK to continue • Default tablespaces (specifie	r selected components ry database to next page.	2 00:01.01 (ms 00:01.508(sec)) QK confirma	tion.	
	Cher Creation	ck tablespace requirements fo ate tablespaces in the reposito completed. Click OK to continue • Default tablespaces (specifie	r selected components ry database	s 00:01.01 (ms 00:01.506(sec) confirma	ation.	

Figure 4–10 Creating Tablespaces Progress Bar

12. Click **Create**.

Figure 4–11 Repository Creation Utility Summary Screen

ę.		Repository Creation	n Utility - Step 7 of 8		\odot	×
Re	pository Creation Utilit	ty)
φ	Welcome	Database cletails:				
*	Create Repository	Host Name	example			
ų.	Database Connection Details	Port	1521			
6	Select Components	Service Name	OCDSPDB			
1	Schema Passwords	Connected As	sy s			
Ι	Man Tableenaces	Operation	System and	Data Load concurrently		
Ť.	Summary	Prefix for (prefixable) Schema Owners	OCDS			
Ť	Completion Summary	-				
-		Component	Schema Owner	Tablespace Type	Tablespace Name	
		Common Infrastructure Services	OCDS_STB	Default Temp Additional	OCDS_STB OCDS_IAS_TEMP [None]	Â
		Oracle Platform Security Services	OCDS_OPSS	Default Temp Additional	OCDS_IAS_OPSS OCDS_IAS_TEMP [None]	
		Audit Services	OCDS_IAU	Default Temp Adolitional	OCDS_IAU OCDS_IAS_TEMP [None]	
		Audit Services Append	OCDS_IAU_APPEND	Default Temp Additional	OCDS_IAU OCDS_IAS_TEMP [None]	
		Audit Services Viewer	OCDS_IAU_VIEWER	Default Temp Adolitional	OCDS_IAU OCDS_IAS_TEMP [None]	
		Weblogic Services	OCDS_WLS	Default Temp	OCDS_WLS OCDS_IAS_TEMP	•
		Save <u>R</u> esponse File				
	Help			< Back Next >	<u>C</u> reate Car	ncel

13. Click **Close** when Repository Creation has completed.

pository Creation Utilit	ty					T
Welcome	Database cletails:					
Create Repository	Host Name	exemple				
Database Connection Details	Port	1521				
Colort On monanta	Service Name	OCDSPDB				
derect components	Connected As	svs				
Schema Passwords	Operation	System and D	ata Load con	currently		
Map Tablespaces	Execution Time	1 minute 22	secondis			
Summary						
Completion Summary	RCU Logfile	/tmp/RCU201	8-10-22_13-0	03_1243860131/logs/rcu.	og	
ounprotion ournmany	Component Log Directory	/tmp/RCU201	8-10-22_13-0	03_1243860131/logs		
	Owners	1a UCDS				
	Owners	ia ocos		_		
	Owners Component	ia ocos	Status	Time	Logfile	e(Click to view
	Component Common Infrastructure Serv	ices \$	Status Success	Time 00:09.342(sec) 00:14.886(sec)	Logfile	e(Click to view stb.log
	Component Common Infrastructure Serv Oracle Platform Security Se Audit Services	rices S rivices S	Status Success Success Success	Time 00:09.342(sec) 00:14.886(sec) 00:12.474(sec)		e(Click to view stb.log opss.log iau.log
	Component Common Infrastructure Serv Oracle Platform Security Se Audit Services Append	ices 5 ivices 5 s	Status Success Success Success Success Success	Time 00:09.342(sec) 00:14.868(sec) 00:12.474(sec) 00:09.204(sec)	Logfile au_	e(Click to view stb.log opss.log iau.log append.log
	Component Component Common Infrastructure Serv Oracle Platform Security Se Audit Services Audit Services Append Audit Services Viewer	ices 5 rvices 5 s	Status Success Success Success Success Success Success	Time 00:09.342(sec) 00:14.828(sec) 00:12.474(sec) 00:09.204(sec) 00:10.127(sec)	Logfile (lau_ iau_	e(Click to view stb.log opss.log iau.log append.log _viewer.log
	Pretix for (pretixable) Scherr Owners Common Infrastructure Serv Oracle Platform Security Se Audit Services Append Audit Services Append Audit Services Viewer Weblogic Services	rices 5 rivices 5 s s s s s s s	Status Success Success Success Success Success Success	Time 00.09.342(sec) 00:14.846(sec) 00:12.474(sec) 00:09.204(sec) 00:10.127(sec) 00:13.509(sec)	Logfile iau iau	e(Click to view stb.log opss.log iau.log viewer.log viewer.log wis.log
	Prets for (pretixable) Scher Owners Common Infractructure Serv Oracle Platform Security Se Audit Genvices Audit Genvices Append Audit Genvices Viewer Weblogic Services	ices £ ivices £ £ £	Status Success Success Success Success Success Success	Time 00.09.342(sc) 00.14.4826(sc) 00.09.204(sc) 00.09.204(sc) 00.10.12(sc) 00.10.12(sc)	Logfile iau iau	a(Click to view stb.log ppss.log iau.log append.log _viewer.log wis.log

Figure 4–12 Completion Summary Screen

Creating a WebLogic Domain with JRF

This section describes instructions for creating a new WebLogic domain with JRF, and instructions to create a managed server into which the OCDS Job Admin, Injector, and ORDS components can be deployed.

Prerequisites

The installation of OCDS components requires the existence of schemas in a database prior to installation. These schemas are created and loaded in your database using the Repository Creation Utility (RCU). OCDS requires Oracle WebLogic server 12c (12.2.1.3.0), built with Java 8 (JDK 1.8 64 bit with the latest security updates).

The minimum recommended Java VM memory setting for the OCDS application domain is:

-Xms1024m -Xmx2048m

If re-creating a domain using the same RCU schemas, and those schemas are not in ocds_* tablespaces, then run RCU to drop old RCU schemas.

WebLogic Domain Creation

Perform the following procedure to create a WebLogic Domain with one Managed Server. OCDS can be installed on more than one managed server if preferred.

- 1. Launch the Fusion Middleware Configuration Wizard from ORACLE_HOME/oracle_ common/common/bin.
- 2. Select Create a new Domain, and enter the domain location.

Configuration Type		
Create Domain		
Templates		
Administrator Account		
Domain Mode and JDK		
Advanced Configuration		
Configuration Summary		
Configuration Progress	What do you want to do?	
End Of Configuration	<u>Create a new domain</u>	
	Update an existing domain	
	Domain Location: 7/001/webadmin/products/wis_ocds/plomains/ocds_domain	Brown
	Create a new domain.	

Figure 4–13 WebLogic Create Domain Screen

3. Select Oracle Enterprise Manager to cause the Oracle JRF and WLS Coherence Cluster Extension templates to be selected, in addition to the Basic WebLogic Server Domain template.

Figure 4–14 Templates Screen

Templates	
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	Orreste Domain Using Eroduct Templates: Fitter Templates: Fitter Templates: Fitter Templates: Fitter Templates: Include all greated templates Oracle Enterprise Manager - 12:2.13.0 [wiserver] * Oracle Enterprise Manager - 12:2.13.0 [em] Oracle Enterprise Manager - 12:2.13.0 [em] Oracle User Messaging Service Basic: 12:2.13.0 [pracle_common] Oracle USER Service Application - 12:2.13.0 [pracle_common] Oracle USER SERVICE Application - 12:2.13.0 [pracle_common] Oracle OFES REST Service Application - 12:2.13.0 [pracle_common] Oracle User Messaging Cudom Template: Template location;

4. Select the application location.



Figure 4–15 Application Location Screen

5. Create a WLS Administrator account.

Figure 4–16 Administrator Account Screen

•	Fusion Midd	lleware Configuration Wizard - Page 4 of 12	S (S)
Administrator Account			
Create Domain Templates Application Location Administrator Account Demain Mode and JDK Database Configuration Type Component Datasources JDB Creat Advanced Configuration Configuration Dimmary Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as t or special character.	weblogic 	h at least one number
Help		< <u>Back</u> <u>N</u> ext > <u>Fin</u>	ish Cancel

6. Choose a domain mode.

Domain Mode and JDK	FUSION MIDDLEWARE
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	Domain Mode <u>Development</u> Utilize boot properties for username and password, and poll for applications to deploy. <u>Production</u> Require the entry of a username and password, and do not poll for applications to deploy. JDK • Qracle HotSpot 14.0_73 /u01/webadmin/software/gik14.0_73 • Other JDK Location: • Bit

Figure 4–17 Domain Mode and JDK Screen

7. Specify the RCU AutoConfiguration. The Schema Owner was created during the RCU step. Complete the form and click the **Get RCU Configuration** button.

Figure 4–18 Database Configuration Type Screen

		Fusion Middleware Configuration Wizard - Page 6 of 12 🛛 😒 🛞
C	atabase Configuration Typ	
A	Create Domain	Specify AutoConfiguration Options Using:
*	Templates	BCU Data Manual Configuration
4	Application Location	
ų,	Administrator Account	Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Benository Creation I Hilling. The Wizard uses this connection to automatically configure the
ų.	Domain Mode and JDK	datasources required for components in this domain.
	Database Configuration Type	Vendor: Oracle
Ŷ	Component Datasources	Connection Parametere Connection URL String
ģ	JDBC Test	
Å	Advanced Configuration	Host Name: example
5	Configuration Summary	DBMS/Service: occlspdb Port: 1521
Ļ	Configuration Progress	Schema Owner: OCDS_STB Schema Password:
9	End Of Configuration	Get RCU Configuration Cancel
		Connection Result Log
		Click 'Get BCLL Configuration' button to test the connection and activate the 'Next' button
	Help	<u>ABack</u> <u>Next</u> > <u>Finish</u> Cancel

8. Click Next, if the Connection Result Log is error free.

alabase configuration Type	
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Progress End Of Configuration	

Figure 4–19 Database Configuration Type Screen - Displaying Result Log

9. Accept defaults, then click **Next** (unless you need to edit schema passwords because they are not all the same).

Figure 4–20 Component Datasources Screen

J	DBC Component Schema		Fusion Middleware C	Configuration W	izard - Page 7 of		ACLE	· · · · · · · · · · · · · · · · · · ·
	Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Ver interview Ho DB Sci Ora	ndor: Connection Parameters et Name: MS/Service: hema Owner: Aucle RAC configuration for Convert to (Connection Connection P S component schem AridLink O C	river: URL String ort: chema Paseword: tas: convert to RAC mult	• ti data source	• O Don't col	• Ivert
Ţ	Configuration Summary	Ed	its to the data above will at	ffect all checked n	ows in the table belows in the table belows	ow. Port	Schema Owner	Schema Password
Ŷ	Configuration Progress	Iн	LocalSvcTbl Schema	OCDSPDB	example	1521	OCDS STB	
0	End Of Configuration	H	WLS Schema	OCDSPDB	example	1521	OCDS WLS F	
		H	OPSS Audit Schema	OCDSPDB	example	1521	OCDS IAU AF	
		后	OPSS Audit Viewer Sch	OCDSPDB	example	1521	OCDS_IAU_VII	
		后	OPSS Schema	OCDSPDB	example	1521	OCDS_OPSS	
	Help				<	Back N	ext » Einit	h Cancel

10. Test the selected connections. If all connections are successful, click Next.

DBC Component Schem	a Test				
Create Domain		Status	Component Schema	JDBC Connect	ion URL
Templates	 Image: A start of the start of	1	LocalSvcTbl Schema	jobc:oracle:thin:@// example	:1521/OCDS
Application Location	 Image: A set of the set of the	1	WLS Schema	jobc:oracle:thin:@// example	:1521/OCDS
Aslania istanta a Assa ust		1	OPSS Audit Schema	jobc:oracle:thin:@// example	:1521/OCDS
Administrator Account		1	OPSS Audit Viewer Schema	jobc:oracle:thin:@// example	:1521/OCDS
Domain Mode and JDK		1	OPSS Schema	jobc:oracle:thin:@// example	:1521/OCDS
Advanced Configuration					
JDBC Test					
Advanced Configuration					
		Text Sr	alested Opprestings Consel Testing		
Configuration Summary		Tost 96			
Configuration Summary Configuration Progress	Co	nectio	n Result Log		
Configuration Summary Configuration Progress End Of Configuration	Con Oriv URL User SQL CFG CFG CFG	nectio ponen er=ora =jalbcc =OCD =Word= Test=s FWK-6 FWK-6	n Result Log is Chama-LocalSv:Tbl Schema cle job:CoracleDriver saclethin@// ::1521/OCDSPDB S_STB SELECT 1 FROM DUAL 34213: Ted Successful 34213: UBSC connection ted was successful. 34215: UBSC connection ted		
Configuration Summary Configuration Progress End Of Configuration	Con Driv URL User Pass SQL CFG CFG CFG	nnectio ponen er=orav =jolbc:c =OCD word= Test=\$ FWK-6 FWK-6	n Result Log Is Chama-LocalSvCTbl Schema Lei gibto:OracleDriver sorteithin @// ::1521/OCDSPDB S_STB SELECT 1 FROM DUAL 34213: -tB Successfull 34213: -tB Successfull 34213: No action required.		

Figure 4–21 JDBC Test Screen

11. Select the settings according to the deployment topology and click **Next**. The Managed Server is shown here.

Figure 4–22 Advanced Configuration Screen



12. Choose the server name and ports, and enable SSL. Then click Next.

	Fusion Middleware Configuration Wizard - Page 10 of 21	
Administration Server		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JBO Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary	Server Name OCDS_AdminServer Listen Address All Local Addresses Listen Port 6440 Enable SSL ✓ SSL Listen Port 6441 Server Groups Unspecified	
Configuration Progress	< Back Next > Einist	n Cancel

Figure 4–23 Administration Server Screen

13. Select the Node Manager Type, and enter the Node Manager Credentials, then click **Next**.

Figure 4–24 Node Manager Screen

	Fusion Middleware	e Configuration Wizard - Page	11 of 21	 ×
Node Manager				
Create Domain Templates Application Location Administrator Account Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Servers UDBC Test Advanced Configuration Administration Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets Partitions Configuration Summary Configuration Configuration Configuration Configuration Configuration Configuration Co		ocation 	edomains/ocds_domain/nodemana	107 Biowse
Helb			< Back Next > Einie	Cancel

14. Click the **Add** button.

	Fusion Middlewar	e Configuration Wizard	d - Page 12 of 2	21		🗢 🖉
Managed Servers						
Create Domain Templates	Add 🖹 Oc	one X Delete			🗳 Dis	gard Changes
Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Group
Domain Mode and JDK]		
Database Configuration Type Component Datasources						
JDBC Test						
Advanced Configuration						
Node Manager						
Managed Servers						
<u>Clusters</u>						
Server Templates						
Coherence Clusters						
Machines						
Virtual Targets						
Partitions						
Configuration Summary						
Configuration Progress						
End Of Configuration						
Help			< <u>B</u> e	ack <u>N</u> ext	> <u>F</u> inish	Cancel

Figure 4–25 Managed Servers Screen

15. Enter the Managed Server name and ports, then click **Next**.

Figure 4–26 Managed Servers Screen - Displaying Server Name

1		Fusion Middleware	Configuration Wizard	Page 12 of 2	:1		 ×
Managed Servers							
Create Domain Templates		👍 Add 🗎 🗎 Clo	ne 🔀 <u>D</u> elete			🔊 Disg	ard Changes
Application Location		Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and JDK		OCDS_ManagedServer_1	All Local Addresses 💌	8442	✓	8443	Unspecified 💌
Database Configuration Type							
JDBC Test							
Advanced Configuration							
Administration Server Node Manager	100000						
Managed Servers							
Clusters Server Templates							
Coherence Clusters							
Machines							
Partitions							
Configuration Summary							
End Of Configuration	-						
Help				< <u>B</u> e	ack <u>N</u> ext:	Einish	Cancel

16. Click **Next** if skipping the cluster configuration, or click **Add** to enter information. Then click **Next**.

k		Fusion Mic	Idleware Configura	tion Wizard - Pag	ge 13 of 21		
Clusters					FUSION		
Templates	Ē	Add	X Delete			i g) (Disgard Changes
Application Location		Cluster Name	Cluster Address	Frontend Host	Frontend HTTP Port	Frontend HTTPS Port	Dynamic Server Groups
Domain Mode and JDK							
Database Configuration Type							
Component Datasources							
Advanced Configuration							
Administration Server	3						
Node Manager	88						
Clusters							
 Server Templates 							
Coherence Clusters							
Virtual Targets							
Partitions							
Configuration Summary							
Configuration Progress End Of Configuration	Ţ						
Help					< Back	Next > Einis	h Cancel

Figure 4–27 Clusters Screen

17. Click **Next** if skipping the Server Templates, or click **Add** to enter the information. Then click **Next**.

Figure 4–28 Server Templates Screen

•	Fusion Middleware	Configuration Wizard - Pa	ge 14 of 21	 ×
Server Templates				
Templates	Add X Dele	te		🧿 Disgard Changes
Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
Administrator Account				
Domain Mode and JDK				
Database Configuration Type				
Component Datasources				
JDBC Test				
Advanced Configuration				
Administration Server				
Nocle Manager				
Managed Servers				
<u>Clusters</u>				
Server Templates				
Coherence Clusters				
Machines				
Virtual Targets				
Partitions				
Configuration Summary				
Configuration Progress				
End Of Configuration			Death New C	
<u>m</u> eip			< back Next >	inish Cancel

18. Click Next if no changes are required.

	Fusion Middleware Configuration Wiz	ard - Page 15 of 21	\odot
Coherence Clusters			
Create Domain Templates	4 	iii) D	isgard Changes
Application Location	Cluster Name	Cluster Listen Port	
Administrator Account	defaultCoherenceCluster	7574	
Domain Mode and JDK			
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Node Manager			
Managed Servers			
Clusters			
Server Templates			
Coherence Clusters			
Machines			
Virtual Targets	* *		
Partitions			
Configuration Summary			
Configuration Progress			
End Of Continuistion	11		10.0

Figure 4–29 Coherence Clusters Screen

19. Click **Add** to enter the machine information.

Figure 4–30 Machines Screen

K	Fusion Middleware Configu	uration Wizard - Page 16 of 21		 ×
Machines		FUSIO		
Create Domain Create Domain Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JBDC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters Machines Virtual Targets	Machine Unix Machine	Node Manager Listen Address	Nocie Mane	Diegard Changes
Configuration Summary Configuration Progress	-			
Help		< <u>B</u> ack	Next » Eini	sh Cancel

20. Enter the machine and click **Next**.

¥	Fusion Middleware Config	guration Wizard - Page 16 of 22	S (8)
Machines			
Create Domain Templates Application Location	Machine Unix Machine		🔯 Discard Changes
Administrator Account	Name	Nocle Manager Listen Address	Node Manager Listen Port
Domain Mode and JDK	OCDS_Machine_1	localhost 👻	5556
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Node Manager	2		
Managed Servers			
Clusters			
Server Templates			
Coherence Clusters			
Machines			
Assign Servers to Machines			
Virtual Targets			
 Partitions 			
Configuration Summary			
O Configuration Progress	-		
Help		< Back N	ext » Einish Cancel

Figure 4–31 Machines Screen - Displaying Machine Name

21. Assign the managed server to the machine by selecting the managed server on the left, and the machine on right, then click the right arrow.

Figure 4–32 Assign Servers to Machines Screen

	Fusion Middleware Configuration	Wizard - Page 17 of 22	\odot
Assign Servers to Machines			
Create Domain	Servers	Machines	
Templates	OCDS_AdminServer	to Machine	
Audiostics Lesstics	OCDS_ManagedServer_1	OCDS_Machine_1	
Application Location			
Administrator Account			
Domain Mode and JDK			
Database Configuration Type			
Component Datasources		>	
JDBC Test			
Advanced Configuration			
Administration Server			
Neda Massaar			
Node Manager		8	
Managed Servers			
Clusters			
Server Templates			
Coherence Clusters			
Machines			
Assign Servers to Machines			
Virtual Targets	Select one or more servers in the left pane and	ol one machine in the right pane. Then use the right a	rrow button (>) to
Partitions	assign the server or servers to the machine.		
Continuetion Summon			
computation summary			
Configuration Progress		Deals Marsh Citat	

22. Click Next.

Assign Servers to Machine	3		
Create Domain	Servers	Machines	
Templates	OCDS_AdminServer	Machine	
Application Location			xdServer_1
Administrator Account			
Domain Mode and JDK			
Database Configuration Type			
Component Datasources		>	
JDBC Test			
Advanced Configuration			
Administration Server			
Node Manager			
Managed Servers			
Clusters			
Server Templates			
Coherence Clusters			
Machines			
Assign Servers to Machines			
Virtual Targets	Select one or more servers in the left assign the server or servers to the ma	ane and one machine in the right pane. Then use the hine.	right arrow button (>) to
Partitions			
Configuration Summary			
Configuration Progress	•		

Figure 4–33 Assign Servers to Machines Screen - Servers Assigned

23. Click **Next** to skip virtual targets.

Figure 4–34 Virtual Targets Screen

¢.	Fusion Middlew	are Configuration Wi	zard - Page 18 o	22		👻 🙁
Virtual Targets						
Templates	Add X	Delete			🗐 Disgard	Changes
Application Location Administrator Account Domain Mode and JDK	Name	Target	Host Names	URI Prefix	Explicit Port	Port Offset
Database Configuration Type Component Datasources						
Advanced Configuration Administration Server						
Managed Servers Clusters						
Coherence Clusters Machines						
Assign Servers to Machines Virtual Targets Partitions	* *					
Configuration Summary Configuration Promess	.		<	Back Next »	Einish	Cancel

24. Click **Next** to skip partitions.

	Fusion Middleware Configuration Wizard - Page 19 of 22	\odot (
Partitions		
Create Domain Templates	Add N Delete	Disgard Changes
Application Location	Name	
Administrator Account		
Domain Mode and JDK		
Database Configuration Type		
Component Datasources		
JDBC Test		
Advanced Configuration		
Administration Server		
Node Manager		
Managed Servers		
Clusters		
Server Templates		
Coherence Clusters		
Machines		
Assign Servers to Machines		
Virtual Targets		
Partitions		
Configuration Summary		
Confinuation Procress		

Figure 4–35 Partitions Screen

25. Review the domain configuration, then click **Create**.

Figure 4–36 Configuration Summary Screen

	Fusion Middleware Configuration Wizard - Page	20 of 22	 Section 1
Configuration Summary			
Create Domain Templates Application Location Administration Server DBC Test Advanced Configuration Administration Server DBC Test Advanced Configuration Administration Server Managed Servers Cituates Server Templates Coherence Clusters Machines Assign Servers to Machines Virtual Targets Partitions Configuration Servers Configura	View: Deployment Cocks. comman (W01/Webachmin/product/sWis_ocols/doo.) Server OCDS_ManagedServer_1 AdminiServer OCDS_downert Opssreat Opssreat Obs Application#12.2.1.1.0 Coherence-transaction-rar state management-provider-memory- em Outsation#12.2.1.1.0 Oracle.doconfig-infra#2.0@12.2.1 Owarp exapt#2.0@12.2.1 Owarp exapt#2.0@12.2.1 Owarp exapt#2.0@12.2.1 Owarp exapt#2.0@12.2.1.0.1 Owarp exapt#2.0@12.2.1 <th>Name Basic Wolbogic Se Description Create a basic Web Author Oracle Corporation Location //01/webadmin/proc Description Enterprise Manager Author Oracle Corporation Location //01/webadmin/proc Description emas plugin Templa Description //01/webadmin/proc Name emas Plugin Templa Author Oracle Corporation Location //01/webadmin/proc Name Oracle WSM Conso Description This extension temp Author Oracle JRF Description Full JRF Domain Te Author Oracle JRF Description Full JRF Domain To Author Oracle JRF Description Full JRF Domain To Author Oracle JRF Description Full JRF Domain To Author Oracle JRF</th> <th>ver Domain </th>	Name Basic Wolbogic Se Description Create a basic Web Author Oracle Corporation Location //01/webadmin/proc Description Enterprise Manager Author Oracle Corporation Location //01/webadmin/proc Description emas plugin Templa Description //01/webadmin/proc Name emas Plugin Templa Author Oracle Corporation Location //01/webadmin/proc Name Oracle WSM Conso Description This extension temp Author Oracle JRF Description Full JRF Domain Te Author Oracle JRF Description Full JRF Domain To Author Oracle JRF Description Full JRF Domain To Author Oracle JRF Description Full JRF Domain To Author Oracle JRF	ver Domain
Telb		< Dack Next > Crea	te Cancel

26. Click **Next**. The Configuration Progress is displayed.

Configuration Progress	ORACL	<u>e</u>
	FUSION MIDDLE	NARE
Create Domain		
Templates	100%	
Application Location	Copy Unprocessed Artifacts	
Administrator Account	OPSS Processing Security Processing	
Domain Mode and JDK	Artifacts Generation	
Database Configuration Type	String Substitution	
Component Datasources	V Post Processing	
JDBC Test		
Advanced Configuration		
Administration Server		
Node Manager		
Manageol Servers		
Clusters		
Server Templates		
Coherence Clusters		
Machines		
Assign Servers to Machines		
Virtual Targets		
Partitions		
Configuration Summary		
Configuration Progress		

Figure 4–37 Configuration Progress Screen

27. Click **Finish** at the confirmation page.

Figure 4–38 End Of Configuration Screen

•	Fusion Middleware Configuration Wizard - Page 22	of 22	
End Of Configuration			
Create Domain			
C Templates	Oracle Weblogic Server Configuration Succeeded New Domain ocds_domain Creation Succeeded		
Application Location	Domain Location /u01/webacimin/products/wis_ocols/domains/ocols_o	lomain	
Administrator Account	Admin Server URL https:// :8441/console		
Domain Mode and JDK			
Database Configuration T	pe		
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Node Manager			
Managed Servers			
Clusters			
Server Templates			
Coherence Clusters			
Machines			
Assign Servers to Machine	s		
Virtual Targets			
Partitions			
O Configuration Summary			
Configuration Progress			
Help		< <u>B</u> ack <u>N</u> ext » <u>F</u> ini	sh Cancel

Note: At this point the new node manager will have SecureListener enabled by default.

 QA systems may prefer to disable this feature. If so, edit <DOMAIN_ HOME>/nodemanager/nodemanager.properties and set SecureListener=false.



Figure 4–39 Example - SecureListener Property

 In this case, after starting the Node Manager and WebLogic, set the Node Manager's Type to Plain on the machine, by navigating to Home - Machines -[machine] - Node Manager. Then click Save.

Figure 4–40 Node Manager Screen with Type Setting Plain

						_
Home Log Ou	ut Preference	s 🔤 Reci	rd Help	Welcome, weblogic	Connected to: ocds_dor	nair
Home >Summary (of Machines >C	CDS_Mach	ine_1			
Settings for OCD	5_Machine_	1				
Configuration	Monitoring	Notes				
General Node	e Manager	Servers				
Save						
This page allows Servers are insta The settings def Node Manager in	s you to define alled. fined on this p instances.	e the Node age are us	Manager configuration for this machine. To control a Managed Server from the console, Node Manager mus d to configure communication between the current domain and Node Manager instances that control Manager	t be configured and running on the mach ged Servers. This page does not control ti	ine where the Managed	
街 Type:		Plair	Returns the node r connecting to the ?	nanager type for the server or clients on NodeManager instance. More Info	the server to use when	
Listen Address:	•	loca	host The host name or server to use when	IP address of the NodeManager for the se connecting to the NodeManager instance	erver or clients on the e. More Info	
Listen Port:		5556	The port number o when connecting to	f the NodeManager for the server or clier the NodeManager instance. More Info	nts on the server to use	
🛃 Node Manag	ger Home:		Returns the node n command template	nanager home directory that will be used More Info	to substitute for the she	
🕂 Shell Comm	iand:		Returns the local of functions. More 1	ommand line to use when invoking SSH o nfo	or RSH node manager	
🔲 Debug Enab	led		Specifies whether of When enabled, cor server will result in	communication with this Node Manager n inections to the NodeManager from the s more information sent to the server log.	eeds to be debugged. erver or clients on the More Info	
Save						

- Finally, bounce node manager, and then WebLogic.
- 28. Start the Node Manager (\$DOMAIN_HOME/bin/startNodeManager.sh).
- **29.** Start the Domain (\$DOMAIN_HOME/bin/startWebLogic .cmd).

Note: Once the console is up you can start the managed server and configure SSL (if needed)

- **30.** Start the Managed Server. If you are using the Admin Console, navigate to Home {Domain} Summary of Servers Control (tab), then select managed server and click **Start**.
- **31.** Configure SSL on Managed Server.

onfigura	tion	Protocols	Logging	Debu	ig I	Monitoring	Control	Deployments	Services	Security	Notes					
eneral	Cluster	Services	Keyst	ores	SSL	Federation	n Services	Deployment	Migration	Tuning	Overload	Concurrency	Health Monitoring	Server Start	Web Services	Coherence
ave																
<i>Keystores</i> manage ti	ensure he secur	the secure ity of mess	storage ar age transn	id mana nissions	igeme	ent of private	keys and t	rusted certificate	e authorities	(CAs). Thi	s page lets y	ou view and defi	ne various keystore co	onfigurations. Ti	hese settings help	o you to
eystores	-						Custom	Identity and Cu	stom Trust	Change		Which configural keystores? Mor	tion rules should be u re Info	sed for finding t	the server's ident	ity and trust
Identity																
ustom Id	lentity	Keystore:					/u01/	webadmin/ce	rts/]		The source of th file name. For ar URI. More Info	e identity keystore. Fi Oracle Key Store Se 	or a JKS keystor rvice (KSS) keys	e, the source is t tore, the source	he path and is the KSS
ustom Id	lentity	Keystore 1	Type:				jks					The type of the Service, this wou	keystore. Generally, t Id beKSS More Info	his is JKS. If usi	ng the Oracle Ke	/ Store
ustom Id	lentity	Keystore F	assphra	se:			•••••	•••••				The encrypted of keystore will be	ustom identity keysto opened without a pas	re's passphrase. sphrase. More	If empty or null, Info	then the
onfirm C	ustom	Identity K	eystore F	assphi	rase:		•••••	•••••								
Trust —																
ustom Ti	rust Ke	ystore:					<mark>/u01</mark> /	webadmin/ce	rts/trustor			The source of th and file name. Fi KSS URI. More	e custom trust keysto or an Oracle Key Stor Info	re. For a JKS ke e Service (KSS)	systore, the source keystore, the source	e is the pat urce is the
ustom Ti	rust Ke	ystore Typ	e:				jks]		The type of the I Service, this wou	keystore. Generally, ti Ild beKSS More Info	his is JKS. If usi 	ng the Oracle Ke	y Store
ustom Ti	rust Ke	ystore Pas	sphrase:				•••••	•				The custom trus opened without	t keystore's passphra: a passphrase. More	se. If empty or i Info	null, then the key	store will be
onfirm C	ustom	Trust Keys	store Pas	sphras	e:		•••••	••]						

Figure 4–41 OCDS Managed Server

onfigura	tion	Protocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes					
General	Cluster	Services	Keysto	res SSL	Federation	Services	Deployment	Migration	Tuning	Overload	Concurrency	Health Monitoring	Server Start	Web Services	Coherence
Save															
This page	lets you	view and d	efine vario	ous Secure	Sockets Layer	(SSL) setti	ngs for this ser	ver instance.	These setti	ings help yo	u to manage the	security of message	transmissions.		
🗄 Identi	ty and 1	Trust Locat	ions:			Keystor	es Change				Indicates who well as the se	ere SSL should find th erver's trust (trusted C	e server's identi As). More Info	ty (certificate and	private key)
Identity	y Local	tion:				from Cu	stom Identity K	leystore			The keystore	attribute that defines	the location of	the private key fil	e. More Info
rivate Ke	ey Alias	:				The keystore attribute that defines the string alias used to store server's private key. More Info							used to store and	and retrieve the	
🗧 Privat	e Key P	assphrase:				•••••	•••]		The keystore private key.	attribute that defines More Info	the passphrase	used to retrieve	the server's
🗄 Confir	m Priva	ite Key Pas	sphrase:			•••••	••••]						
Certificate Location:						from Cu	stom Identity K	eystore			The keystore attribute that defines the location of the trusted certificate. More Info				
Trust —	ertifical	te Authorit	ies:			from Cu	stom Trust Key	store			The keystore Info	attribute that defines	the location of	the certificate au	horities. Mo
🖗 Advar	nced —														

32. Add the following security policy to <code>\$ORACLE_</code>

HOME/wlserver/server/lib/weblogic.policy file.

grant codeBase "file://-" { 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"; };
```

- **33.** 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.

Note: The last two steps are part of the requirements for jobadmin deployment, see the *Oracle Retail Bulk Data Integration Installation Guide* for additional information.

OCDS (BDI) Job Admin

This chapter describes the procedure to install and deploy the OCDS (BDI) Job Admin application on a WebLogic domain. The OCDS (BDI) Job Admin is an Oracle Retail Bulk Data Integration component. Additional information can be found about the Installation of a BDI Job Admin in the *Oracle Retail Bulk Data Integration Installation Guide*.

Prerequisites

The installation of OCDS Job Admin component requires the existence of schemas in a database prior to installation. These schemas are created and loaded in your database using the Repository Creation Utility (RCU) described in the previous section, and the steps outlined in the OCDS Schemas chapter of this document.

The target WebLogic Admin Server and Managed Server should be running.

The JAVA_HOME environment variable must be set.

Preparation

Perform the following procedure to install the OCDS (BDI) Job Admin Application:

- 1. Unzip ocds-jobadmin-deployment.zip.
- 2. Configure the conf/bdi-job-admin-deployment-env-info.json file with the database and WebLogic domain details. This file is used by the deployment script.
 - **a.** Edit the Datasource definitions for JobAdminDatasource:
 - jdbcUr1: Configure the jdbcUrl for all DataSources definitions in DataSourceDef.

BatchInfraDataSource references a schema created using the WebLogic RCU (<prefix>_WLS).

All other datasources reference the OCDS interface (ocds_ifc) schema created during the prerequisite step: OCDS Database Creation.



Figure 5–1 Datasource Definitions

- b. Edit the Middleware Server definitions for JobAdminAppServer
 - webLogicDomainName: WebLogic domain name.
 - webLogicDomainHome: WebLogic domain home directory.
 - webLogicDomainAdminServerUrl: Server URL information.
 - webLogicDomainAdminServerHost: Server host.
 - webLogicDomainAdminServerPort: Admin Server port.
 - webLogicDomainTargetManagedServerName: Managed Server name.
 - jobAdminUiUrl: Host and managed server port where Job Admin application will be deployed. This can be setup with the HTTPS port.

"Midd	lewareServerDef":{
	JobAdminAppServer": {
	"weblogicDomainName": "ocds domain",
	"weblogicDomainHome": "/u01/webadmin/products/wls_ocds/domains/ocds_dom
	"weblogicDomainAdminServerUrl": "t3://localhost:8440",
	"weblogicDomainAdminServerProtocol": "t3",
	"weblogicDomainAdminServerHost": "localhost",
	"weblogicDomainAdminServerPort": "8440",
	"weblogicDomainAdminServerUserAlias": "OcdsAppServerAdminServerUserAlia;
	"weblogicDomainTargetManagedServerName": "OCDS_ManagedServer_1",
	"jobAdminUiUrl":"http://localhost:8442/ocds-batch-job-admin",
	"jobAdminUiUserGroup": "BdiEdgeOcdsJobAdminGroup".
	"jobAdminUiUserAlias":"ocdsJobAdminUiUserAlias".
	"jobAdminUiUser":"GET FROM WALLET",
	"jobAdminUiPassword":"GET_FROM_WALLET",
	"jobOperatorUiUserGroup":"BdiEdgeOcdsJobOperatorGroup",
	"jobOperatorUiUserAlias":"ocdsJobOperatorUiUserAlias",
	"jobOperatorUiUser":"GET_FROM_WALLET",
	"jobOperatorUiPassword":"GET_FROM_WALLET",
	"jobMonitorUiUserGroup":"BdiEdgeOcdsJobMonitorGroup",
	"jobMonitorUiUserAlias":"ocdsJobMonitorUiUserAlias",
	"jobMonitorUiUser":"GET_FROM_WALLET",
	"jobMonitorUiPassword":"GET_FROM_WALLET"
}	
},	
"JobAc	<pre>iminApplication": {</pre>
	appName": "ocds",
	JobAdminAppUses":[
	"JobAdminDataSource",
	"JobAdminAppServer",
	(IID-mana Tablidaria Jan Campana II. ()
	"KempteJobAdminAppBervers":[]
	3

Figure 5–2 OCDS Setup HTTPS Port

- **c.** Edit RMS JobAdmin Server.
 - jobAdminUiUrl: Host and managed server port where Job Admin application will be deployed. This can be setup with the HTTPS port.

Figure 5–3 RMS JobAdmin Server Setup

"RmsJobAdminAppServer": {
"jobAdminUiUrl":"http://localhost:7001/rms-batch-job-admin",
"jobAdminUiUserAlias":"rmsJobAdminBaseUrlUserAlias",
"jobAdminUiUser":"GET_FROM_WALLET",
"jobAdminUiPassword":"GET_FROM_WALLET",
}

Job Admin Installation

Perform the following procedure to install and deploy the Job Admin Application.

1. Change to the ocds-jobadmin-deployment/bin folder and execute the version bdi-job-admin-deployer script for the o/s using the switches:

-setup-credentials -deploy-job-admin-app

On Linux:

```
./bdi-job-admin-deployer.sh -setup-credentials -deploy-job-admin-app
```

On Windows:

bdi-job-admin-deployer.cmd -setup-credentials -deploy-job-admin-app

- **a.** There will be one prompt for a WebLogic user credential:
 - Enter username for alias (OcdsAppServerAdminServerUserAlias):

Enter the WebLogic Admin Server credentials.

Figure 5–4 OCDS App Servers Admin Server User Alias



- **b.** There will be three prompts to create JobAdmin user credentials:
 - Enter username for alias (ocdsJobAdminUiUserAlias):
 Enter credentials to be used to create the *Admin* user.
 - Enter username for alias (ocdsJobOperatorUiUserAlias):
 Enter credentials to be used to create the *Operator* user.
 - Enter username for alias (ocdsJobMonitorUiUserAlias):
 Enter credentials to be used to create the *Monitor* user.

Figure 5–5 Prompts to Create JobAdmin User Credentials



- **c.** There will be four prompts for database user credentials. Three of the four credentials are for the OCDS Interface User named ocds_ifc.
 - Enter username for alias (ocdsJobAdminDataSourceUserAlias):

Enter the credentials for the OCDS Interface schema user. The username must be ocds_ifc. The password was defined as a prerequisite in the Chapter 3, "OCDS Schemas".

- Enter username for alias (ocdsReceiverServiceDataSourceUserAlias):

Enter the credentials for the OCDS Interface schema user. The username must be ocds_ifc. The password was defined as a prerequisite in the Chapter 3, "OCDS Schemas".

- Enter username for alias (batchInfraDataSourceUserAlias):

Enter the credentials for the <prefix>_WLS schema created during the Repository Creation Utility (RCU) step.

Figure 5–6 Prompts for Database User Credentials



Verify Installation

After the OCDS (BDI) Job Admin application has been successfully deployed you should be able to access and log into the application's user interface.

- **1.** Verify that the BDI Job Admin has been deployed.
 - a. Go to http[s]://<host>:<port>/ocds-batch-job-admin/

Example: https://example:8443/ocds-batch-job-admin/

b. At the prompt enter one of the Job Admin User credentials created during the installation.

Figure 5–7 Job Admin User Credentials

Sign in		
https://	:8443	
Username	username	
Password		
		Sign in Cancel

c. The OCDS Job Admin UI displays.

Figure 5–8 OCDS Job Admin UI

Jatch Summary Manage Batch . ystem Summary	Jobs Trace Data	Diagnostics	Manage Configurations	System Logs			
stem Summary							_
Batch Application S OCDS-BATCH	System Health	Total Jobs 63	Total Executions 0	Total Succes	sful Executions 0	Total Failed Execution	ns
test Job Executions					Enter job name to sea	rch	9
Job Name	Family	Instance	ld	Execution Id	Start Tim	e Status	
Job Name	Pamily	Instance	IG	Execution id	start Tim	se Status	

OCDS (RIB) Injector

This chapter describes the procedure to install and deploy the OCDS (RIB) Injector application on a WebLogic domain.

Prerequisites

The target WebLogic Admin Server and Managed Server should be running.

The JAVA_HOME environment variable must be set.

Preparation

Perform the following procedure to install the OCDS (RIB) Injector Application:

- 1. Configure the conf/bdi-job-admin-deployment-env-info.json file with the database and WebLogic domain details. This file is used by the deployment script.
 - a. Edit the Datasource definitions for InjectorDataSource.
 - jdbcUr1: This is the jdbc URL needed to connect to the OCDS Transactional schema. The OCDS Transactional (ocds_txn) schema was created during the prerequisite step: OCDS Database: Database Creation.

Figure 6–1 jdbc URL

```
"InjectorDeploymentEnvInfo": {
    "DataSourceDef":{
        "InjectorDataSource":{
            "dataSourceName":'InjectorDataSource",
            "dataSourceClass":'Oracle.jdbc.pool.OracleDataSource",
            "dataSourceIndiName":'jdbc/InjectorDataSource",
            "jdbcUrl":"jdbc:oracle:thin:0/ 1521/ocdspdb",
            "jdbcUserNias":'InjectorDataSourceUserAlias",
            "jdbcUser":'GET_FROM_WALLET"
        }
    }
}
```

- b. Edit the Middleware Server definitions for InjectorAppServer.
 - webLogicDomainName: WebLogic domain name.
 - webLogicDomainHome: WebLogic domain home directory.
 - webLogicDomainAdminServerUrl: Server URL information.
 - webLogicDomainAdminServerHost: Server host.
 - webLogicDomainAdminServerPort: Admin Server port.
 - webLogicDomainTargetManagedServerName: Managed Server name.

Figure 6–2 Middleware Server Definitions

```
"MiddlewareServerDef":{
    "InjectorAppServer": {
    "weblogicDomainName": "dcds_domain",
    "weblogicDomainAdminServerPurl": "t3://localhost:8440",
    "weblogicDomainAdminServerPurtocol": "t3",
    "weblogicDomainAdminServerPtortcol": "t3",
    "weblogicDomainAdminServerPtort": "Ba40",
    "weblogicDomainAdminServerPtort": "Ba40",
    "weblogicDomainAdminServerPtort": "Ba40",
    "weblogicDomainAdminServerPtort": "OcdSAppServerAdminServerUserAlias",
    "weblogicDomainAdminServerName": "OcdSAppServerAdminServerUserAlias",
    "weblogicDomainAdminServerName": "OcdSAppServerAdminServerUserAlias",
    "weblogicDomainTargetManagedServerName": "OCDS_ManagedServer_1",
    "injectorIntegrationUserGroup":"IntegrationGroup",
    "injectorIntegrationUser":"GET_FROM_WALLET",
    "injectorIntegrationPassword":"GET_FROM_WALLET",
    "injectorIntegrationPassword":"GET_FROM_WALLET",
},
```

Injector Installation

Perform the following procedures to install and deploy the Injector application.

1. Change to the ocds-injector-deployment/bin folder and execute the version of injector-deployer script for the o/s using the switches:

-setup-credentials -deploy-injector-app

On Linux:

./injector-deployer.sh -setup-credentials -deploy-injector-app

On Windows:

injector-deployer.cmd -setup-credentials -deploy-injector-app

- a. There will be one prompt for WebLogic user credentials:
 - Enter username for alias (OcdsAppServerAdminServerUserAlias):
 Enter the WebLogic Admin Server credentials.





- **b.** There will be one prompt to create the Integration User:
 - Enter username for alias (IntegrationUserAlias):

Enter credentials for the integration user. These credentials will enable RIB to communicate with OCDS.

Note: Password must not start with a number.



Credential required for Integration User: Enter username for alias (IntegrationUserAlias):integrationUser Enter Password:

c. There will be one prompt for database user credentials.

- Enter username for alias (InjectorDataSourceUserAlias):

Enter the credentials for the OCDS Transactional schema user. The username must be ocds_txn. The password was defined as a prerequisite in Chapter 3, "OCDS Schemas".

Figure 6–5 Prompt Database User Credentials



Verify Installation

If the OCDS (RIB) Injector application has been successfully deployed then you should be able to verify the application is reported with an OK health status, and invoke a SOAP Web Service call from a tool like SOAP UI.

- 1. Verify the OCDS Injector Application (injector.war) is deployed and has a status of Active on the WLS Console.
- The injector deployment can be more thoroughly verified by using the SOAP UI (http://www.soapui.org). Out of the box, the Injector is secured with RGBU PolicyA.

To configure SOAP UI to make SOAP requests:

a. Add trusted SSL certificate to SOAPUI truststore. See SOAPUI preferences for location of truststore.

SoapUI Preferences				X
SoapUI Preferences Set global SoapUI settings				X
HTTP Settings	KeyStore:	C:\tools\soapUI-4.6.0\jre\lib\security\cacerts	Browse	
Proxy Settings	KeyStore Password:	•••••		
WSDL Settings	Enable Mock SSL:	enable SSL for Mock Services		
UI Settings	March Dart			
Editor Settings	MOCK POR			
Tools	Mock KeyStore:		Browse	
WS-I Settings	Mock Password:			
Global Properties	Mock Key Password:			
WS-A Settings	Mock TrustStore		Browse	
Global Sensitive Information Tokens			browsen	
Version Update Settings	Mock TrustStore Password:			
AlertSite Connector Plugin	Client Authentication:	requires client authentication		
				OK Cancel

Figure 6–6 SOAP UI Preferences

b. Create a new SOAP Project.

The WSDL location is https://<host>:<port>/ /ApplicationMessageInjectorBean/InjectorService?WSDL.

Figure 6–7 SOAP Project

New SOAP Project	×
New SOAP Project Creates a WSDL/SOAP based Project in this workspace	
Project Name: InjectorService	
Initial WSDL: s:7002/ApplicationMessageInjectorBean/InjectorService?WSDL Browse	
Create Requests:	
Create TestSuite: 🗌 Creates a TestSuite for the imported WSDL	
Relative Paths: Stores all file paths in project relatively to project file (requires save)	
١	OK Cancel

c. Create an outgoing WS-Security Configuration (from Show Project View).

InjectorService					🖉 4, 🛛 🖉
Overview TestSuit	es WS-Security Cor	figurations Securit	ty Scan Defaults		
					2
Outgoing WS-Securi	ity Configurations I	ncoming WS-Security	Configurations	Keystores	Truststores
+×					2
Name	Default Username/	Default Password	Actor	Must	Understand
+ × ^ ×					
	٩				
L.	·				

Figure 6–8 WS-Security Configuration

d. Click the Plus sign to specify a unique name.

Figure 6–9 Name for Configuration

Overview TestSuit	tes WS-Security Cor	nfigurations Securit	y Scan Defaults]
				V
Outgoing WS-Secur	ity Configurations	ncoming WS-Security	Configurations	Keystores Tru
+ ×				
Name	Default Username/	Default Password	Actor	Must Und
	New	Outgoing WSS Config	uration ame for configur	ration

e. Click the Plus sign in lower section to add user name WSS Entry.

Overview	TestSuite	es WS-Security Co	onfigurations	Securit	y Scan Defaults		
Outgoing	WS-Securit	y Configurations	Incoming WS-	Security	Configurations	Keystores	Tr
+ x							
Nan	ne	Default Username/.	Default Password		Actor	Mus	t Un
			Add WSS Entry			2	
** + × ^	*			t type of name	entry to add		_

Figure 6–10 Add User Name to WSS Entry

f. Enter the Integration user's username and password for the integration user and set the Password Type to PasswordText. (The user was defined when deploying the Injector.)

Figure 6–11 Set Password Type

					.,	
Outgoing	WS-Securi	ty Cor	nfigurations I	ncoming WS-Security	Configurations K	eystores Truststore
Nan	ne	Defa	ult Username/	Default Password	Actor	Must Understand
Dutgoing						
+ X A Username	*		¢ ▶ Username:	myIntegrationUs	er	
+ X ^ Username	*		♥ Username: Password:	myIntegrationUs	er	
+ X ^ Username	*		Username: Password: Add Nonce:	myIntegrationUs	er	
+ X ^ Username	¥		Username: Password: Add Nonce: Add Created:	wyIntegrationUs wy Adds a nonce Adds a create	er	

g. Click the Plus sign in the lower section to create a timestamp WSS entry.

Figure 6–12 Create Timestamp WSS Entry

Overview TestSu	ites 🚺	NS-Security Con	figurations	Securit	y Scan Defaults		
Outgoing WS-Secu + X	rity Con	figurations Ir	ncoming WS-	Security	Configurations	Key	stores
Name	Defau	ilt Username/	Default Pa	sword	Actor		Mus
+ × ∧ → Username		↓ Username	Selec	t type of estamp OK	entry to add	•	
		Add Nonce:	Adds	a nonce			_
		Add Created: Password Typ	e: Passwor	a created dText	•		

h. Set the time to live to a large enough number to account for any network latency.

Figure 6–13 Set Time to Live Entry



- i. The Inject Service has two operations. For each Operations' Request.
 - Add a New Authorization: Basic

Figure 6–14 Add New Authorization

AP	Re	eque	est 1	-				
	≯	Â	p 🖸		-	20 AP	https://	:7002/ApplicationMessageInjectorBean/InjectorService
Raw XML		<so <s <s </s <td>apenvi soape soape <v1:p <pa soapo papen</pa </v1:p </td><td>r:Env: nv:He nv:Bo ing> ramet ing> env:B v:Env</td><td>elopade eade ody> ters> velop</td><td>e xmins:: fr/> Hello W • e></td><td>ord</td><td>mas.xmlsoap.org/soap/envelope/" xmins.v1="http://www.oracle.com/reta</td></s </so 	apenvi soape soape <v1:p <pa soapo papen</pa </v1:p 	r:Env: nv:He nv:Bo ing> ramet ing> env:B v:Env	elopade eade ody> ters> velop	e xmins:: fr/> Hello W • e>	ord	mas.xmlsoap.org/soap/envelope/" xmins.v1="http://www.oracle.com/reta
	Au	utho	rizati	on:		Add	New Authorization.	•••••••••••••••••••••••••••••••••••••••
			Head	arc (0		Attache	N Authorization has Use the Author	ot Yet Configured not been set for protected services. <i>ization</i> drop down to configure.

- Select the name you used for the Outgoing WSS.

🤣 🖧 🖸 🗋 🔹	https:// :7002/ApplicationMessageInjectorBean/InjectorService	
<soapenv:envelope xmli<br=""><soapenv:header></soapenv:header> <soapenv:header></soapenv:header> <soapenv:body> <v1:ping> </v1:ping> </soapenv:body> </soapenv:envelope>	ns:soapenv="http://schemas.xmisoap.org/soap/envelope/" xmins.v1="http://www.oracle.co) World	m/reta -
		•
Authorization: Ba	asic	•••
Username:		
Username: Password: Domain:		
Username: Password: Domain: Pre-emptive auth:	© Use global preference O Authenticate pre-emptively	
Username: Password: Domain: Pre-emptive auth: Outgoing WSS: Incoming WSS:	Outgoing Use global preference Outgoing Use global preference Outgoing Use global preference Outgoing Outgo	
Username: Password: Domain: Pre-emptive auth: Outgoing WSS: Incoming WSS:	O Use global preference Authenticate pre-emptively Outgoing	

Figure 6–15 Outgoing WSS

j. On the WS-A tab make sure Enable WS-A addressing is not selected.

Figure 6–16 WS-A Tab

▶ ∛∕	80 🖸 🗆	1 AP	https://	:7002/ApplicationMessageInjectorBean/InjectorService
Raw XML	soapenv:Enve <soapenv:he <soapenv:bo <v1:ping> </v1:ping> </soapenv:bo /soapenv:Enve</soapenv:he 	elope xml ader/> dy> ers>Hello ody> elope>	s.soapenv="http://schemas.xm World	isoap.org/soap/envelope/" xmins.v1="http://www.oracle.com/reta
			Ι	
	(► Q
	WC A - 44		•	<u>م</u>
Enable	WS-A addres	sing:		
Must u	nderstand:		NONE -	
WS-A V	ersion:		200508 🔻	
Add de	fault wsa:Act	ion:	Add default wsa:Actio	on
Action:			http://www.oracle.com/	/retail/rib/integration/services/Injector!
Add de	fault wsa:To:		Add default wsa:To	
To:				
Poply t				
itepiy ti				
ReplyT	o Reference P	aramete	rs:	
Genera	te MessageID		🗌 Randomly generate N	/lessageId
Messag	eID:			
From:				
Fault to	e.			
FaultTo	Reference Pa	aramete	s:	

k. Create a valid request and send it. The request is now using policy A.



Figure 6–17 Create Valid Request

7

OCDS (ORDS) Web Services

This chapter describes the process to deploy the configured 19.2 ords.war file onto the OCDS domain.

Prerequisites

The prerequisites and steps outlined in the OCDS Schemas chapter have been completed.

The target WebLogic Admin Server and Managed Server should be running.

The JAVA_HOME environment variable must be set.

Preparation

The OCDS Web Services leverage Oracle REST Data Services (ORDS). Perform the following procedure to prepare for the installation of ORDS.

- 1. Unzip ocds-ords-deployment.zip.
- **2.** Copy the configured 19.2 ords.war file into the /dist folder.

Note: This ords.war file should have the config dir set to the correct /config folder. Otherwise set the location of the ORDS configuration files using:

java -jar ords.war configdir </path/to/ords/config>

3. Copy /config folder that was used when setting up ORDS in the database itself (see "Configured ORDS 19.2 for the OCDS database"). It should contain /config/ords that has url-mapping.xml, <pdb_name>_pu.xml and other config files created when setting up the database.

Deploy ORDS

Perform the following procedure to deploy the ORDS web application onto a WebLogic Domain:

- 1. Configure conf/ords-deployment-env-info.json file with the database and WebLogic domain details. This file is used by the deployment script.
 - a. Edit the Middleware Server definitions for OrdsAppServer.
 - webLogicDomainName: WebLogic domain name.

- webLogicDomainHome: WebLogic domain home directory.
- webLogicDomainAdminServerUrl: Server URL information.
- webLogicDomainAdminServerHost: Server host.
- webLogicDomainAdminServerPort: Admin Server port.
- webLogicDomainTargetManagedServerName: Managed Server name.

Figure 7–1 Middleware Server Definitions for OrdsAppServer

- 2. Stop and restart the Managed Server and the Admin Server.
- **3.** With the WebLogic Admin Server and the Managed Server running, change to the ocds-ords-deployment/bin folder and execute the version ords-deployer script for the o/s using the switches:

-setup-credentials -deploy-ords-app

On Linux:

./ords-deployer.sh -setup-credentials -deploy-ords-app

On Windows:

ords-deployer.cmd -setup-credentials -deploy-ords-app

- **a.** There will be one prompt for WebLogic user credentials:
 - Enter username for alias (OcdsAppServerAdminServerUserAlias):
 Enter the WebLogic Admin Server credentials.

Figure 7–2 WebLogic User Credentials



b. There will be one prompt to create the OCDS Integration User:

Enter the credentials for the OCDS Integration user. These credentials will enable an Omnichannel application, such as the Xstore Suite, to communicate with OCDS.

Note: Password must not start with a number.

Figure 7–3 OCDS Integration User



Verify Installation

If the OCDS web services have been successfully installed then you should be able to request a JSON response from one of the OCDS REST resources.

1. Test by invoking a REST endpoint using a tool like curl (or SOAPUI, and so on). Curl is used for demonstration purposes.

URL

http[s]://host[:port]/ords/<path-prefix>/omnichannel/metadata-catalog/

where

 <path-prefix> is the prefix (defined in a previous step) that must occur at the start of the request path

curl -i -k --user ocdsXstoreUser:ocdsXstoreUser1
https://example:8443/ords/ocds/omnichannel/metadata-catalog/



