Oracle[®] Retail Store Inventory Management Installation Guide Release 14.1.3.2NT F36532-01

November 2020



Copyright © 2020, Oracle. All rights reserved.

Contributors: Nathan Young, Kuldeep Suthar

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

(i) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.

(ii) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.

(iii) the software component known as **Access Via**[™] licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.

(iv) the software component known as **Adobe Flex™** licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all reconfigurations, reassembly or reverse assembly, reengineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.

Contents

Se	end Us Your Comments	ix
Pr	eface	xi
	Audience	xi
	Customer Support	xi
	Review Patch Documentation	xi
	Improved Process for Oracle Retail Documentation Corrections	xii
	Oracle Retail Documentation on the Oracle Technology Network	xii
	Conventions	xii
1	reinstallation Tasks	1
	Implementation Capacity Planning	1
	Check Supported Database Server Requirements	
	Check Supported Application Server Requirements	3
	Check Single Sign-On Requirements	4
	Check Directory Server Requirements	4
	Check Third-Party Software Dependencies	4
	Check Client PC and Web Browser Requirements	4
	Supported Oracle Retail Products	5
	UNIX User Account Privileges to Install the Software	5
	SIM Installation Overview	5
2	RAC and Clustering	7
3	Database Installation Tasks	9
	Expand the SIM Database Schema Installer Distribution	9
	Required Database Character Set	
	Required Tablespaces	10
	Create the SIM Database User	10
	Run the SIM Database Schema Installer	11
	Resolving Errors Encountered During Database Schema Installation	11
	Running Data Seeding	12
4	Database Installation Tasks – Patch	15
	Upgrading SIM	
5	Application Installation Tasks	17
	Middleware Infrastructure and WebLogic Server12c (12.2.1.4.0) Installation	17
	Install RCU Database Schemas	
	Create a New ADF Domain (with managed server and EM)	
	Start the Node Manager	
	Start the AdminServer (admin console)	43
	Start the Managed Server	
	Configuration of OID LDAP Provider in Weblogic Domain:	44
	Verify OID Authenticator	50

	Clustered Installations - Pre-Installation Steps	50
	Expand the SIM Application Distribution	51
	Set the LANG Environment Variable	51
	Set the Environment Variables for the SIM Installer	52
	Run the SIM Application Installer	52
	Clustered Installations - Post-Installation Steps	53
	SIM Database Authentication Provider set up (to be done after the application deploy)	54
	Review and/or Configure Oracle Single Sign-On	57
	Create the SIM SSO provider in the SIMDomain	57
	SIM Batch Scripts	58
	Resolving Errors Encountered During Application Installation	
	Web Help Files	
	Starting and Stopping the Wavelink Server	
6	Test the SIM Application	61
A		
В	Appendix: SIM Application WebLogic Server Installer Screens	
С	Appendix: Common Installation Errors	119
	EJB Deployment Errors during Installation to WebLogic	
	Database Installer Hangs on Startup	
	Warning: Could not create system preferences directory	
	Warning: Couldn't find X Input Context	
	ConcurrentModificationException in Installer GUI	
	A Second Login Screen Appears After Single Sign-On Login	
	Error Connecting to Database URL	
	GUI screens fail to open when running Installer	
	Log in fails with invalid username/password or user unauthorized errors	
D	Appendix: Setting up SIM Reports/Tickets in BI Publisher	123
Or	acle Analytics Server Configuration for SIM Reports	123
	OAS Server Component Installation Tasks	
	Installation Process Overview	
	Install Oracle Analytics Server 5.5	
	Post install steps for OAS5.5	
	Installing the SIM OAS Publisher Templates	
	Configuring the RMS JDBC connection	
	Restart WebLogic Server. Verify Oracle AS Publisher Set Up for RMS Repor	ts .135
Ε	Appendix: Single Sign-On for WebLogic	
	What Do I Need for Single Sign-On?	
	Can Oracle Access Manager Work with Other SSO Implementations?	
	Oracle Single Sign-on Terms and Definitions	
	What Single Sign-On is not	
	How Oracle Single Sign-On Works	139

	Installation Overview	141
	User Management	141
F	Appendix: Setting Up Password Stores with wallets/credential stores	143
	About Database Password Stores and Oracle Wallet	143
	Setting Up Password Stores for Database User Accounts	144
	Setting up Wallets for Database User Accounts	145
	For RMS, RWMS, RPM Batch using sqlplus or sqlldr, RETL, RMS, RWMS, ARI	
	Setting up RETL Wallets	147
	For Java Applications (SIM, ReIM, RPM, RIB, AIP, Alloc, ReSA, RETL)	148
	How does the Wallet Relate to the Application?	151
	How does the Wallet Relate to Java Batch Program use?	151
	Database Credential Store Administration	151
	Managing Credentials with WSLT/OPSS Scripts	155
	listCred	156
	updateCred	157
	createCred	157
	deleteCred	157
	modifyBootStrapCredential	158
	addBootStrapCredential	159
	Quick Guide for Retail Password Stores (db wallet, java wallet, DB credential	,
G	Appendix: Database Parameter File	171
Н	Appendix: Installation Order	173
	Enterprise Installation Order	173

Send Us Your Comments

Oracle Retail Store Inventory Management, Installation Guide, Release 14.1.3.2NT

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

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

Are the implementation steps correct and complete?

Did you understand the context of the procedures?

Did you find any errors in the information?

Does the structure of the information help you with your tasks?

Do you need different information or graphics? If so, where, and in what format?

Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc_us@oracle.com

Please give your name, address, electronic mail address, and telephone number (optional).

If you need assistance with Oracle software, then please contact your support representative or Oracle Support Services.

If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at www.oracle.com.

Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

Audience

This Installation Guide is written for the following audiences:

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

Customer Support

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

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, 14.1) or a later patch release (for example, 14.1.3). If you are installing the base release or 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.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times **not** be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

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.

If a more recent version of a document is available, that version supersedes all previous versions.

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

Conventions

Navigate: This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement "the Window Name window opens."

This is a code sample It is used to display examples of code This chapter discusses the tasks to complete before installation.

Implementation Capacity Planning

There is significant complexity involved in the deployment of Oracle Retail applications, and capacity planning is site specific. Oracle Retail strongly suggests that before installation or implementation you engage your integrator (such as the Oracle Retail Consulting team) and hardware vendor to request a disk sizing and capacity planning effort.

Sizing estimates are based on a number of factors, including the following:

- Workload and peak concurrent users and batch transactions
- Hardware configuration and parameters
- Data scarcity
- Application features utilized
- Length of time history is retained

Additional considerations during this process include your high availability needs as well as your backup and recovery methods.

Check Supported Database Server Requirements

Supported On	Versions Supported
Database Server OS	OS certified with Oracle Database 19c Enterprise Edition. Options are:
	 Oracle Linux 7 for x86-64 (Actual hardware or Oracle virtual machine).
	 Red Hat Enterprise Linux 7 for x86-64 (Actual hardware or Oracle virtual machine).
	 AIX 7.2 (Actual hardware or LPARs)
	• Solaris 11.x SPARC (Actual hardware or logical domains)
Database Server 12cR1	Oracle Database Enterprise Edition 19c (19.3.0.0.0) with the following specifications:
	Components:
	Oracle Partitioning
	 Examples CD
	Other components:
	 Perl interpreter 5.0 or later
	 X-Windows interface
	• JDK 1.8

General Requirements for a database server running SIM include:

Check Supported Application Server Requirements

The SIM application must be deployed on Oracle WebLogic 10.3.6

Note: SIM is certified to work with only Oracle Internet Directory LDAP server (OID), as specified in the Application Server Requirements section of the SIM Installation Guide. The sample, unsupported .ldif files that SIM includes are provided only as reference.

General requirements for an Oracle WebLogic Server capable of running the SIM application include the following.

Supported on:	Versions Supported:
Application Server OS	 OS certified with Oracle Fusion Middleware 12.2.1.4 Options are: Oracle Linux 6 and 7 for x86-64 (Actual hardware or Oracle virtual machine). Red Hat Enterprise Linux 6 and 7 for x86-64 (Actual hardware or Oracle virtual machine). AIX 7.2 (Actual hardware or LPARs) Solaris 11.x SPARC (Actual hardware or logical domains)
Application Server	 Oracle Fusion Middleware 12.2.1.4 Components: FMW 12.2.1.4 Infrastructure (WLS and ADF included) Oracle Identity Management 12.2.1.4 Oracle Enterprise Manager 12.2.1.4 Note: Oracle Internet Directory (OID) is the supported LDAP directories, refer to Oracle Retail products. For alternate LDAP directories, refer to Oracle WebLogic documentation set. Java: JDK 1.8+ 64 bit Optional (required for running reports) BI Publisher 12.2.1.4 for legacy reports Note: OBIEE 12.2.1.4 release does not support standalone BI Publisher installation with new installation (Doc ID 2472158.1),so install OBIEE 12.2.1.3 and upgrade it to 12.2.1.4. Please refer OBIEE 12.2.1.4 Installation guide for compatible FMW infrastructure version - Oracle Business Intelligence Publisher 12.2.1.4.0 Optional (required for SSO) Oracle WebTier 12c (12.2.1.4) Oracle Access Manager (12.1.2.4)

Check Single Sign-On Requirements

If SIM is not being deployed in a Single Sign-On environment, skip this section.

If Single Sign-On is to be used, verify the Oracle Identity Management has been installed along with the components listed in the above Application Server requirements section. Verify the Oracle WebTier Server is registered with the Oracle Access Manager as a partner application.

Check Directory Server Requirements

SIM uses directory server based user authentication and searching. For LDAP, SIM is supported with the following directory servers:

• Oracle Identity Management 12.2.1.4

Check Third-Party Software Dependencies

• Oracle Retail Wireless Foundation Server, provided by Wavelink 5.x.

Check Client PC and Web Browser Requirements

Requirement	Versions
Operating system	Windows 10 Note : Oracle Retail assumes that the retailer has ensured its Operating System has been patched with all applicable Windows updates.
Oracle (Sun) Java Runtime Environment (JRE)	Java 8+
Browser	Microsoft Edge 44+ Microsoft Internet Explorer 11 Mozilla Firefox ESR 60+ Chrome 73+ The browser is used to launch the Java WebStart client.

Note: Oracle Retail does not recommend or support installations with less than 128 kb bandwidth available between the PC client and the data center. Limiting the client to less than 128 kb total available bandwidth causes unpredictable network utilization spikes, and performance of the client degrades below requirements established for the product. The 128 kb requirement provides reasonable, predictable performance and network utilization.

Supported Oracle Retail Products

The following Oracle Retail products can be integrated with SIM. Next to each product is an indication of whether it is required or optional for SIM to function properly:

 Retail Integration Bus (RIB) 14.1.3 and all subsequent patches and hot fixes – Required

Although typically used to integrate SIM with RMS, RIB can also be used to integrate SIM with other merchandising systems.

Note: RIB requires custom modifications to use a merchandising system other than RMS.

Retail Merchandising System (RMS) 14.1.3 - Optional

- Oracle Retail Price Management 14.1.3 Optional
- Oracle Retail POS Suite 14.1.3 Optional

The above products can be installed before or after SIM. However, it is helpful to know the connection details for the other products ahead of time so that you can provide them to the SIM application installer, which will configure the connection points for you.

UNIX User Account Privileges to Install the Software

A UNIX user account is needed to install the software. The UNIX user that is used to install the software should have write access to the WebLogic server installation files. For example, "oretail."

Note: Installation steps will fail when trying to modify files under the WebLogic installation unless the user has write access.

SIM Installation Overview

The following basic steps are required to install and set up SIM for the first time.

- 1. Install the database (with or without RAC).
- 2. Install application server (WebLogic) if it has not been installed
- 3. Install the SIM database schema
- **4.** Set role-based access control. See Chapter 3 of the *Oracle Retail Store Inventory Management Implementation Guide, Volume* 1 for instructions.
- 5. Install the SIM application.
- 6. Run data-seeding from RMS (Applicable only if SIM integrate with RMS)

RAC and Clustering

The Oracle Retail Store inventory Management System has been validated to run in two configurations on Linux:

- Standalone Oracle Application Server or Web Logic Server and Database installations
- Real Application Cluster Database and Oracle Application Server or Web Logic Server Clustering

The Oracle Retail products have been validated against a 19c RAC database. When using a RAC database, all JDBC connections should be configured to use THIN connections rather than OCI connections.

Clustering for Web Logic Server 10.3.6 is managed as an Active-Active cluster accessed through a Load Balancer. Validation has been completed utilizing a RAC 19c Oracle Internet Directory database with the Web Logic 10.3.6 cluster. It is suggested that a Web Tier 11.1.1.9 installation be configured to reflect all application server installations if SSO will be utilized.

References for Configuration:

- Oracle® Fusion Middleware High Availability Guide 11g Release 1 (11.1.1) Part Number E10106-09
- Oracle Real Application Clusters Administration and Deployment Guide 19c (19.3.0.0.0) E95728-07

Database Installation Tasks

This chapter describes the tasks required for a full database installation.

Note: If the SIM 14.1.3 software is already installed, please see **"Database Installation Tasks – Patch"** for information on Patching to SIM 14.1.3.2NT

Expand the SIM Database Schema Installer Distribution

- 1. Log in to the UNIX server as a user which has sufficient access to run sqlplus from the Oracle Database installation.
- **2.** Create a new staging directory for the SIM database schema installer distribution (sim14-db.zip). There should be a minimum of 50 MB disk space available for the database schema installation files. This location is referred to as INSTALL_DIR for the remainder of this chapter.
- 3. Copy sim14-db.zip to <INSTALL_DIR> and extract its contents.

Required Database Character Set

SIM 14.1.3.2NT databases should be created with the AL32UTF8 database character set. This will ensure support for characters of all languages supported by SIM and ensure proper integration with other Oracle Retail applications.

Required Tablespaces

Before you run the SIM database schema installer, make sure that the required tablespaces have been created in the database: RETAIL_INDEX, RETAIL_DATA, USERS, and LOB_DATA. Shown below are examples of how to create tablespaces.

Tablespace Creation

```
CREATE TABLESPACE RETAIL INDEX DATAFILE
   '<datafile path>/RETAIL INDEX01.dbf' SIZE 500M
   AUTOEXTEND ON NEXT 100M MAXSIZE 2000M
   EXTENT MANAGEMENT LOCAL
   SEGMENT SPACE MANAGEMENT AUTO
;
CREATE TABLESPACE RETAIL DATA DATAFILE
    '<datafile path>/RETAIL DATA01.dbf' SIZE 500M
   AUTOEXTEND ON NEXT 100M MAXSIZE 2000M
   EXTENT MANAGEMENT LOCAL
   SEGMENT SPACE MANAGEMENT AUTO
CREATE TABLESPACE USERS DATAFILE
    '<datafile path>/users01.dbf' SIZE 100M
   AUTOEXTEND ON NEXT 100M MAXSIZE 2000M
   EXTENT MANAGEMENT LOCAL
   SEGMENT SPACE MANAGEMENT AUTO
CREATE TABLESPACE LOB DATA DATAFILE
    '<datafile path>/lob data01.dbf' SIZE 50M
   AUTOEXTEND ON NEXT 100M MAXSIZE 2000M
   EXTENT MANAGEMENT LOCAL
   SEGMENT SPACE MANAGEMENT AUTO
```

Create the SIM Database User

The user in the database which will own the SIM tables must be created prior to running the SIM database schema installer. A create_user.sql script has been provided that can be used for this:

<INSTALL_DIR>/sim/dbschema/dbutils/create_user.sql

The script takes three arguments on the command line in sqlplus: username, password, and temporary tablespace.

Example: SQL> @create_user.sql Please review this script and run it as a user with adequate permissions, such as SYSTEM.

Run the SIM Database Schema Installer

This installer installs the SIM database schema, compile SIM objects, insert SIM data, and produce the dba_create_directory.sql script.

- 1. Set the following environment variables:
 - Set the ORACLE_HOME to point to an installation that contains sqlplus. It is recommended that this be the ORACLE_HOME of the SIM database.
 - Set the PATH to: \$ORACLE_HOME/bin:\$PATH
 - Set the ORACLE_SID to the name of your database
 - Set the JAVA_HOME to point to the Java 8.0 (1.8 +) JDK installation
 - Set the NLS_LANG for proper locale and character encoding

Example: NLS_LANG=AMERICAN_AMERICA.AL32UTF8

- **2.** If you are using an X server such as Exceed, set the DISPLAY environment variable so that you can run the installer in GUI mode (recommended). If you are not using an X server, or the GUI is too slow over your network, unset DISPLAY for text mode.
- **3.** Run the install.sh script. This launches the installer. After installation is completed, a detailed installation log file is created: <INSTALL_DIR>/ sim/dbschema/logs/sim-install-db.<timestamp>.log.

Note: Appendix: SIM Database Schema Installer Screens contains details on every screen and field in the database schema installer.

- **4.** When the installer finishes it prints the values of the database SID and database schema user. Note these values as they are needed later when you run the SIM application installer.
- **5.** The SIM database schema installer will produce a dba_create_directory.sql script which must be reviewed by a DBA and then run on the database server in order to complete the installation.

Resolving Errors Encountered During Database Schema Installation

If the database schema installer encounters any errors, it halts execution immediately and prints to the screen which SQL script it was running when the error occurred. It also writes the path to this script to the .dberrors file. When this happens, you must run that particular script using sqlplus. After you are able to complete execution of the script, delete the .dberrors file and run the installer again. You can run the installer in silent mode so that you do not have to retype the settings for your environment. See Appendix D of this document for instructions on silent mode.

See Appendix F of this document for a list of common installation errors.

Subsequent executions of the installer will skip the SQL scripts which have already been executed in previous installer runs. This is possible because the installer maintains a **.dbhistory** file with a listing of the SQL scripts that have been run. If you have dropped the SIM schema and want to start with a clean install, you can delete the .dbhistory file so that the installer runs through all of the scripts again. It is recommended that you allow the installer to skip the files that it has already run.

Running Data Seeding

After full fresh install SIM database schema and SIM application installation tasks completed, store foundation data must be seeded into SIM before user can login to SIM application.

(For migrating SIM from previous release, see "Oracle Retail Store Inventory Management Implementation Guide" for details).

The data seeding process seeds store foundation data from RMS into SIM.

See the "Data Seeding" section of the "Oracle Retail Store Inventory Management Implementation Guide, Volume 1" for additional data seeding details.

The SIM database installer extracts the data seeding scripts from the *sim-database-data-seeding.zip* to the following location:

STAGING_DIR/sim/dbschema/data_seeding

This folder is referred to as DATA_SEEDING_DIR for the remainder of this chapter.

Third-Party Software Dependencies

SIM data seeding requires groovy jar file to be installed. Download Groovy 2.4.12 from http://groovy.codehaus.org.

Extract the required jar file groovy-all-2.4.12.jar and place it under DATA_SEEDING_DIR/lib folder before executing the data seeding.

- 1. Set the following environment variables:
 - Set ORACLE_SID to the name of SIM database.
 Example: export ORACLE_SID=<SIM_DB_NAME>
 - Set the ORACLE_HOME. It is recommended that this be the ORACLE_HOME of the SIM database.
 - Example: export ORACLE_HOME=/u00/oracle/product/19.0.0.0
 - Set JAVA_HOME

Example:

export JAVA_HOME=/path/java1.8+_64bit

Set NLS_LANG
 Example:

export NLS LANG=AMERICAN AMERICA.AL32UTF8

- Set the PATH to: \$ORACLE_HOME/bin: Example: export PATH=\$ORACLE HOME/bin:\$JAVA HOME/bin:\$PATH
- **2.** Verify the directory and the file permissions: The recommended permissions for data seeding directories are 775 (rwxrwxr-x).
- 3. View Data Seeding Options:

Change to <DATA_SEEDING_DIR>/bin directory: startDataSeedCli.sh -h

4. Start Data Seeding Process:

The data seeding provides the following execution options. Please run the script with 1-6 consecutively as shown below.

Note: It is highly recommended to back up the SIM database before executing the data seeding scripts.

It is recommended to verify export log files before staring importing process.

- Set Up startDataSeedCli.sh -a 1 -s <simDBServer> -p <port> -d <simDB>
 Export Foundation Data
- startDataSeedCli.sh -a 2 -s <rmsDBServer> -p <port> -d <rmsDB>
- Export Store Data startDataSeedCli.sh -a 3 -s <rmsDBServer > -p <port> -d <rmsDB>
- Import Foundation Data
 startDataSeedCli.sh -a 4 -s <simDBServer> -p <port> -d <simDB>
- Import Store Data startDataSeedCli.sh -a 5 -s <simDBServer> -p <port> -d <simDB>
- Cleanup startDataSeedCli.sh -a 6 -s <simDBServer> -p <port> -d <simDB>
- 5. Check data seeding logs:

The data seeding process writes master log files into <DATA_SEEDING_DIR>/log directory.

Please check following the master log files:

- export_foundation.log
- export_store.log
- import_foundtion.log
- import_store.log
- data_seed_common.log

The master log files may have references to sub-process log files:

- <DATA_SEEDING_DIR>/export/foundation/log
- <DATA_SEEDING_DIR>/export/store/log
- <DATA_SEEDING_DIR>/import/foundation/log
- <DATA_SEEDING_DIR>/import/store/log
- **6.** Verify the seeding results files.

The verification files are located at directory <DATA_SEEDING_DIR>/verify/out:

- verify_foundation_data.out
- verify_store_data.out
- disabled_constraints.out
- **7.** After inspecting the result files, resolve the problematic data. A database administrator will need to manually enable the disabled constraints which are reported.
- 8. After data seeding is finished and you are convinced that your data was correctly seeded, you can remove all data seeding files from <DATA_SEEDING_DIR>

Database Installation Tasks – Patch

Upgrading SIM

SIM 14.1.3.2NT can also be a patch installation from 14.1.3. If the SIM14.1.3 software has already been installed, it is possible to do a patch install from 14.1.3 to 14.1.3.2NT instead of a full install of the database. The following procedure describes how to upgrade to version 14.1.3.2NT

- 1. Copy sim14-db.zip to <INSTALL_DIR> and extract its contents.
- 2. Change the path to <INSTALL_DIR>/sim/dbschema.
- **3.** Create a new staging directory "sim-database-delta" for SIM upgrade under <INSTALL_DIR>/sim/dbschema path.
- 4. Copy the sim-database-delta.zip file to "sim-database-delta" and extract the contents.
- **5.** Set the following environment variables:
 - Set the ORACLE_HOME to point to an installation that contains sqlplus. It is recommended that this be the ORACLE_HOME of the SIM database.
 - Set the PATH to: \$ORACLE_HOME/bin:\$PATH
 - Set the ORACLE_SID to the name of your database
 - Set the NLS_LANG for proper locale and character encoding Example:

```
NLS_LANG=AMERICAN_AMERICA.AL32UTF8
```

- **6.** Go through "readme.txt" file.
- **7.** Login via sqlplus to the SIM database as the SIM schema owner, spool the output and then run the patch script:
 - spool <sim14132_upg.txt>
 - @run_all.sql
 - spool off
- **8.** Verify the spool output.
- **9.** Compile the invalid objects.

For Example:

```
alter package "RESA_FILE_PARSER" compile body;
alter package "RESA_POSU_PROCESSOR" compile body;
```

Application Installation Tasks

Before proceeding, you must install Oracle WebLogic Server 12c with ADF and any patches listed in the Chapter 1 of this document. The Oracle Retail Store Inventory Management application is deployed to a WebLogic Managed server within the WebLogic installation. It is assumed Oracle Database has already been configured and loaded with the appropriate Store Inventory Management schemas for your installation.

Installing a separate domain is mandated. It can be called "SIMDomain" (or something similar) and will be used to install the managed servers. The ADF libraries should be extended to this domain and the Enterprise Manager application should be deployed.

Note: If this domain is to be setup in a secure mode. Please set up WebLogic as SSL and refer to the SIM Security Guide for details on all items to change to be in secure mode. This would best be done before domain and application install. The domain example below is for unsecured setup.

Middleware Infrastructure and WebLogic Server12c (12.2.1.4.0) Installation

Create a directory to install the WebLogic (this will be the ORACLE_HOME): Example: mkdir -p /u00/webadmin/products/wls_retail

- **1.** Set the ORACLE_HOME, JAVA_HOME and DOMAIN_HOME environment variables:
 - ORACLE_HOME should point to your WebLogic installation.
 - JAVA_HOME should point to the Java JDK 1.8+. This is typically the same JDK which is being used by the WebLogic domain where application is getting installed.

Example:

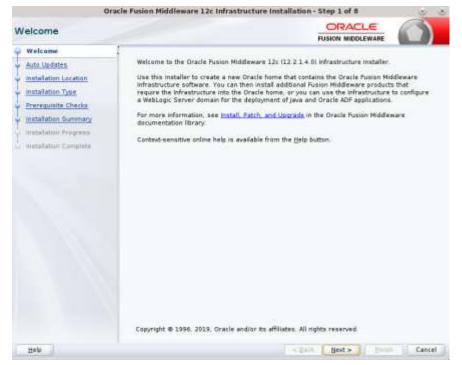
\$export ORACLE_HOME=/u00/webadmin/products/wls_retail \$export JAVA_HOME=/u00/webadmin/products/jdk_java (This should point to the Java which is installed on your server) \$export PATH=\$JAVA_HOME/bin:\$PATH

Going forward we will use the above references for further installations.

2. Go to location where the weblogic jar is downloaded and run the installer using the following command:

```
java -jar ./fmw_12.2.1.4.0_infrastructure.jar
```

3. Welcome screen appears. Click **Next**.



4. Click Next.

uto Updates			
Welcom Auto Updates Instellation Location Instellation Type Processide Checks Instellation Types Instellation Typese Instellation Corplete	Skip Juto Updates Select patches from Joseffer Search By Oracle So Updates Extension	FUSION MIDCLEWAR	Traite

5. Enter the following and click **Next**.

Oracle home =<Path to the ORACLE_HOME>

Example:

/u00/webadmin/products/wls_retail

0	racle Fusion Middleware 12c Infrastructure Installation - Step 3 of 8 🧾 😸
Installation Location	
T Welcome	gratie Home
Auto Updates	/ecratch/u00/webadmin/products/wis_retail
installation Location installation Type Prorequisite Checks installation Summary installation Summary installation Complete	Feature Sets Installed & Selected Oracle Home:
Tep	< gack Mest > Piercel Cancel

6. Select install type 'Fusion Middleware Infrastructure'. Click Next.

Installation Type		
Melcome Auto Updates Installation Location Installation Type Prerequisite Checks	Fusion Middleware Infrastructure with Examples Fusion Middleware Infrastructure Fusion Middleware 12c Infrastructure 12:2.1.4.0	
Installation Summary Installation Progress Installation Complete	 Grace Fusion Middleware 122 II.4.0 Core Server Core Application Server 12.2.1.4.0 Coherence Product Files 12.2.1.4.0 WebLogic Sch 12.2.1.4.0 WebLogic Sch 12.2.1.4.0 WebLogic Client Jans 12.2.1.4.0 Administrative Tools Administrative Tools Administrative Tools Enterprise manager 12.2.1.4.0 Enterprise manager 12.2.1.4.0 Database Support Third party (DBC Drivers 12.2.1.4.0 WebLogic Evaluation Database 12.2.1.4.0 Open Source Components Fusion Middleware Mayon Support 12.2.2.1.4.0 IPF and Enterprise Manager Was for HW 12.2.1.4.0 Oracle Automatic Diagnostic Repository Plasture Set Group PHW Plefform Genetic 12.2.1.4.0 	
Help	< Back Next >	Cancel

This screen will verify that the system meets the minimum necessary requirements.

- 7. Click Next
- 8. Click Install.

Ora	cle Pusion Middleware 12c Infrastructure I	nstallation - Step 6 of 8 📀	10
nstallation Summary)
<u>Welcoms</u> Auto Updates Installation Location Installation Type Premoutate Checks Installation Symmetry	log B Disk Space Required: 2127 MB		
Installation Sommery	Available: 7223 MB Feature Sets to Install Administration Console Additional Lue CIE WLS Config 12.2.1.4.0 Thrid party IDE Ommen 12.2.1.4.0 Thrid party IDE Ommen 12.2.1.4.9 OPatch 13.5.4.2.1 Toplink Developer 12.2.1.4.0 OPatch 13.5.4.2.1 Toplink Developer 12.2.1.4.0 Cone Application Tenver 12.2.1.4.0 Cone Application Tenver 12.2.1.4.0 Cohersnce Product Hiss 12.2.1.4.0 WebSogic SCA 12.2.1.4.0 WebSogic SCA 12.2.1.4.0 WebSogic SCA 12.2.1.4.0 WebSogic SCA 12.2.1.4.0 Too Middlewars Mayon Support 12 Select Install to occept the above options and To change the above uptions before starting th pane on use the Sack button.	40 40 2140	eft
Help		Rack Desc Install Can	cel



Ora	cle Pusic	on Middleware 12c	Infrastructure Installat		00
Installation Progress					
Auto Updates Installation Location	M		100%		
mstallation Type	~	Prepare			
Prerequisite Charks	4	Copy			
Installation Summery	4	Generating Libraries	177.000.0000		
Installation Progress	4	Performing String Sc	ubstitutions		
Installation Complete	1	Linking			
ristanapon complete	1	Setup			
	4	Saving the inventory	(
	1	Post install scripts			
	View	w Messages	View Succ	essful Teska	New Log
	-	Sur	June 1	Hardware and So Engineered to Work	
Helb			1	Bext > Enist	Cancel

10. Click Finish.



Install RCU Database Schemas

The RCU database schemas are required for the installation of configuration of domain and retail application.

Note: Need user which have sys admin privileges to install the RCU database schemas.

The following steps are provided for the creation of the database schemas:

- **1.** Navigate to the directory into which RCU is installed. For example:
 - <ORACLE_HOME>/oracle_common/bin/
 Run ``./rcu"
- 2. Click Next.



Welcome • Create Repository Database Connection Details • Select Components Schema Passwords • System Load and Product Load Map Tablespaces • Prepare Scripts for System Load Completion Summary • Perform Product Load Oregre Scripts have been run by DBA • System Load scripts have been run by DBA • Prop Repository Remove component schemas from a database.	epository Creation Ut	ility	(∽)
Schema Passwords I have DBA privileges. Map Tablespaces Prepare Scripts for System Load Summary Create scripts for DBA to run later. Completion Summary Perform Product Load System Load scripts have been run by DBA. O prop Repository	Create Repository		
Summary O Prepare Scripts for System Load Create scripts for DBA to run later. Completion Summary O Perform Product Load System Load scripts have been run by DBA. O Drop Repository	Schema Passwords		
System Load scripts have been run by DBA.	Summary		

3. Select Create Repository and System Load and Product Load. Click **Next**.

- **4.** Enter database connection details:
 - Database Type: Oracle Database
 - Host Name: dbhostname.us.oracle.com
 - Port: 1521
 - Service Name: dbservicename
 - Username: sys
 - Password: <syspassword>
 - Role: SYSDBA

	Repository Creat	tion Utility - Step 3 of 8		0 0
Repository Creation Uti	lity		ORACLE FUSION MIDDLEWARE	(\mathbf{T})
Mikana Deate Reconstant Deate Reconstant Deate Secondary Deate	Database Type Connection String Format Forming String Heat Nagge Fight genotes Name genotes Databaset gela:	Oracle Database C Connection Agrameters db hostname us snale com 1521 pitend opr as Br9DB4 exerce Br9DB4		
(•	< []#	k j han a j her	Carcel

- 5. Click Next. The Installer checks prerequisites.
- 6. When the prerequisite checks are complete, click OK. Click Next.

epository Crea	ation Ut	llity		PUSION NEOLEW	ALC: NO.
Welsime Create Republicy		Database Type	Oracle Database		
Database Connection Def Select Concentra	Connection String Pormat	E Connection Pgrameters	Connection Spre	ng	
Schema Passwords Man Toblesceres			Rility - Chacking Preroga	inites	3
✓ Obt ✓ Che	✓ Obta	Ibing repository configurate in properties of the specifie is requirement for specified completed. CLEE OF 16 config	d database 00 database 00	00.000(ms) 00.101(ms) 07.029(sec)	

7. Click the **Create a new prefix** option, the prefix name for your schemas should be unique to your application environment.

Example: ReIM, ALLOC, ReSA, and so on.

- **8.** Select the components to create:
 - Meta Data Services
 - Oracle Platform Security Services

Note: Once OPSS schema is selected, the following dependent schemas will get selected automatically.

Audit Services

Audit Services Append

Audit Services Viewer

Note: STB schema will be already selected as part of the Common Infrastructure component.

	Repository Creat	ion Utility - Step 4 of 8	6	
epository Creation U	tility			3
Welcome	Specify a unique prefix for all s and manage the schemas later		ssion, so you can easily locate	e, reference,
Database Connection Details	Select existing prefix:	Calif		
Select Components		APPNAME		
Schema Pasewords				
and the second se		Alpha numeric anly. Can	nut start with a number. No ep	pecial
Map Tablespaces	Component		Schema Owner	
Summary		Component Sepository Components		
Completion Summary	ERAS Common Schemas			
	Common Infrastructure Services *		APPNAME STD	
	ØOracle Platform Security Services		APPNAME OPSS	
	User Messagirig Service		UMS	
	Audit Services		APPNAME UNU	
	Audit Services		AFFNAME_WU_AF	
	Audit Services		APPNAME IXU VI	EWER
	Metadata Serv	and the second	APPNAME_MD5	
	Weblogic Servi	ces *	APPNAME_WLS	
	* Mandatory component. M	andatory components can	not be deselected.	
Help			ack Next > Emint	Cancel

9. Click Next.

				FUSION MIC		and the second s
Welcome Create Repository Database Connecti		Specify a unique prefix for all ac and manage the schemas later	hemas created in this e	eesion, so you ce	n easil	ly locate, referenc
Select Componen	nts -					
Schema Password	100	Repository Creation Util	ADDMANE	quisites 😔	×	
A CONTRACTOR OF A CONTRACT OF				1	-	No special
Map Tablespaces	and the second se	Component Prerequisites		0.8		wher
Summary Completter Summ	V Orac	mon infrastructure Services cle Platform Security Services		00:00.100(ms) 00:00.100(ms)		
Cumbbellin anne		t Services t Services Append		00:00.101(ms)	-	
		it Services Append It Services Viewer		00:00.101(ms)		offes
		adata Services		00:00.100(ms)		100
	📌 Web	lagic Services		00:00.101(ms)	4.1	ALL APPEND
	1					INLI VIEWER
	1				-13	MDS
	Operation	completed. Click OK to continue t	to next page.			WLS
				1	2K	
		* Mandatory component. Ma	indatory components ca	nnot be deselected	d	
		e				

10. Enter password of your choice.

Note: This password is needed at the time of ADF domain creation.

*	Repository	y Creation Utility - Step 5 of 8		S 8
Repository Creation U	Itility			3
Welcome Create Repository Database Connection Details Select Components Scheme Passwords	🛞 gee same password Bassword	main and auxiliary schema users de for all ochemas Alpha numeric only.Cennot start with No special characters except # #	l roumber	
Man Tablespaces Summery Completion Summery		esswords for auxiliary schemas		
•				
Help		< <u>B</u> ad	Next >	n Cancel

Repository Creation L	Itility		FUSION MID	AND A REAL PROPERTY AND A REAL
Welcome Create Repository Database Connection Details Salect Components	Oefault and temporary tab To create new tablespace	espaces for the select s or modify existing tail	ted components appear a blespaces use the Manag	n the table below. • Teblespeces Button • Manage Tablespace:
Scheme Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
and the set of the particular to the set	Common Infrastructu	APPNAME_STB	*APPNAME_STB	*APPNAME IAS TEMP
Map Tablespaces	Oracle Platform Secu	APPNAME OPSS	*APPNAME_IAS_OPSS	*APPNAME_IAS_TEMP
Summary	Audit Services	APPNAME_IAU	*APPNAME_IAU	*APPNAME_IAS_TEMP
	Audit Services Append	APPNAME_IAU_AP	*APPNAME_IAU	*APPMAME_LAS_TEMP
	Audit Services Viewer	APPNAME IAU VIE	*APPNAME_IAU	*APPNAME IAS TEMP
	Metadata Services Weblogic Services	APPNAME_MDS APPNAME_WLS	*APPNAME_MDS *APPNAME_WLS	*AFPNAME_LAS_TEMP *APPNAME_LAS_TEMP
	4 Default tablespaces (spr	cified in the configurat	tion files) are to be create	d upon confirmation.

11. Provide the password and Click 'Next'.
--

12. Click **Next**. A Repository Creation notification will appear. Click **OK**.

	Republicity C	reation Utility - St	ep 6 of fi	0
Repository Creation U	tility		FUSION ME	All Market
Velcome Create Repository Database Connection Details Select Components			cted components appear in ablespaces,use the Manag	
Scheme Passwords Map Tablespaces	Component Common infrastructu	Schema Owner APPNAME_STB	Default Tablespace *APPNAME_STB	Temp Tablespace *APPNAME_IAS_TEMP
Summary Completion Summary	Auc Auc Auc Met Wel CSck	Infirmation (2) (2) (5) t already exist in tere created tere, e = Hzard. (2)((2))((2))((2))((2))((2))((2))((2))	*APPNAME_LAS_TEMP *APPNAME_LAS_TEMP *APPNAME_LAS_TEMP *APPNAME_LAS_TEMP *APPNAME_LAS_TEMP *APPNAME_LAS_TEMP	
	* Default tablespaces (sp <u>Encrypt</u> Tablespace	ecified in the configur	ation files) are to be create	d upon confirmation.
Help			« Back Next »	Cancel

13. Tablespaces are created, and the progress will be displayed in a pop-up notification. When the operation is completed, click **OK**.



14. Click Create. The schema is created.

Repository Creation U	Repository Creation	ound - Step For a		and the second s	1
Welcome Greate Benesitory Database Connection Details Select Components Schema Passwords	Database details Host Name Port Service Name Connected As Operation	msp00ayz us.oracle 1521 PKOLSP05APP nys.as.5Y506A System and Data Lo			
Summary	Prefix for (prefixable) Schema Own	ers APPNAME			
Completion Summary	Component Common Infrastructure Services	Schema Owner APPNAME_STB	Tablespace Type Default Temp Additional	Tablespace Name APPNAME_STB APPNAME_IAS_TEMP [None]	ĺ
	Oracle Platform Security Services	APPNAME_OPSS	Default Temp Additional	APPNAME_IAS_OPSS APPNAME_IAS_TEMP [None]	
	Audit Services	APPNAME_IAU	Default Temp Additional	APPNAME_IAU APPNAME_IAS_TEMP [None]	
	Audit Services Append	APPNAME_IAU_APPEND	Default Temp Additional	APPNAME_IAU APPNAME_IAS_TEMP [None]	
	Audit Services Viewer	APPNAME_IAU_VIEWER	Default Temp Additional	APPNAME_IAU APPNAME_IAS_TEMP Monel	1
	Save Besponse Pile				

Upon successful creation of database schemas, a screen will appear with all the schemas created.

15. Click Close.

epository Creation U	Itility				All Market
Comme Separations Distances Connection Details Distances Connection Details Distances Components Distances Components Distances Components Distances Distanc	Detabase details. Host Name Port Service Name Connected As Operation Execution Time RCU Logfile Component Log Directory View Log Prefix for (prefixable) Scherma Owners	1 minute 49 /tmp/RCU2020	a ata Load concu seconda	26381567/logs/rcu.log	
	Campar Common Infrastructur Oracle Platform Secur Audit Services Audit Services Append Audit Services Viewer Metadata Services Weblogic Services	e Services ity Services	Status Success Success Success Success Success Success Success	Time 00:10:306(eec) 00:15:719(sec) 00:13:603(sec) 00:03:430(sec) 00:16:420(sec) 00:16:968(sec)	Logflie(Click to view) etb log opss log iau log iau log iau viewer log mds log wis log

Create a New ADF Domain (with managed server and EM)

To create a new domain and managed server with ADF libraries and EM, follow the below steps:

1. Set the environment variables:

```
export JAVA_HOME=<JDK_HOME>
    (Example:/u00/webadmin/products/jdk_java) [JDK_HOME is the location where
jdk has been installed)
export PATH=$JAVA_HOME/bin:$PATH
export ORACLE_HOME=<ORACLE_HOME>/
    (Example:/u00/webadmin/products/wls_retail)
cd $ORACLE_HOME/oracle_common/common/bin
```

```
(ORACLE HOMEis the location where Weblogic has been installed.)
```

2. Run the following command:

./config.sh

3. Select Create a new domain.

Domain location: Specify the path to the <DOMAIN_HOME> Example:/u00/webadmin/config/domains/wls_retail/APPNAMEDomain Click **Next**.

		Configuration Wizard - Pa		
Configuration Type				
Create Domain	:			
Templates				
Administrator Account				
Domain Mode and JDK				
Advanced Configuration				
Configuration Summary				
Configuration Progress	What do you want to do	1		
End Of Configuration	Oreate a new domai	n		
	Update an existing d	lomain		
	Domain Location: scra	tch/u00/webadmin/config/dom	ains/wls_retail/APPNAMEDom	ain B <u>r</u> owse
	Create a new domain.			

4. Select Create Domain Using Product Templates.

5. Check the following components:

Oracle Enterprise Manager

Oracle WSM Policy Manager

Note: When Oracle Enterprise Manager Component is selected, the following dependent components are selected automatically:

Oracle JRF

Weblogic Coherence Cluster Extension

6. Click Next.

	Fusion Middleware Configuration Wizard - Page 2 of 12	S (S)
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	 Create Domain Using Product Templates: Filter Templates:	e_common]
Help	< <u>B</u> ack <u>N</u> e	xt > Enish Cancel

Application location: Application directory location. Example: /u00/webadmin/config/applications/wls_retail/APPNAMEDomain

7. Click Next.

Create Damain Templates Application Location Administrator Account Database Configuration Type Component Datasources IDBC Test Advanced Configuration Configuration Summary Configuration Progress Bed OF Configuration	Application Location			A10
	Templates Application Location Administrator Account Domain Mode and JDX Database Configuration Type Component Datasources JDEC Test Advanced Configuration Configuration Summary Configuration Progress	Domain location	/scratch/u00/webadmin/config/domains/wis_retail	Domain Bgowse

- 8. Provide the WebLogic administrator credentials and click Next:
 - Username: weblogic
 - Password: <Password>

Administrator Account			
Sreate Domain Templatas deglication Location Administrator Account Domain Mode and DK Database Configuration Type Component Databasecore UBEC Test Advanced Configuration Configuration Summary Configuration Progress Configuration Progress	 s the password. Password or special character.	must contain at least 8 alphanum	
Help		< gath Ment >	Cancel

	Fusion Middleware Configuration Wizard	- Page 5 of 12	e e
Domain Mode and JDK			
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 Development Utilize boot.properties for username and Production Require the entry of a username and par JDK Oracle HotSpot 1.8.0_221 /scratch/u00/we Other JDK Location:	ssword, and do not poll for applicat	
Help	L	< Back Next > Einish	Cancel

9. Select Domain Mode as Production and the JDK to use (as applicable) and click Next.

10. Select **RCU Data**.

- Vendor: Oracle
- DBMS/Service: dbservicename
- Host Name: dbhostname.us.oracle.com
- Port: 1521
- Schema Owner: APPNAME_STB (Example: ALLOC_STB, ReSA_STB, and so on.)
- Password: <Password>. This password which was used for RCU schema creation.

%	Fusion Middleware Configuration Wizard -	Page 6 of 12 💿 🧿
Database Configuration	Туре	
Create Domen Templates Application Location Administrator Account Domsin Mode and JDK	Specify AutoConfiguration Options Using BCU Data Manual Configuration Enter the database connection details using the s Infrastructure Services component in the Reposito to automatically configure the datasources requiri	ry Creation Utility. The Wizard uses this connection
Database Configuration Ty Component Dataeoutsies (DBC Text) Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Vendor Oracle Driver O O Connection Barameters O Connection URL Host Name: dbhostname.us.oracle.com DBMS/Service [pbort] Port 152	L seeward: [******
Help		< geck Ment > finish Cencel

11. Click the Get RCU Configuration button.

12. Click Next.

Strate Damain Yendar Yendar Yendar Templates Application Location Administrator Account Operation Systemicity Operation UPL String Administrator Account Batabase Configuration Type Operation Systems Port Operation Systems Database Configuration Type Operation Configuration Type Operation Configuration Type Operation Configuration Type DBS Test Advanced Configuration Operation Configuration Configuration Operation Configuration Operation Configuration Component Datasources DBS Test Operation Summary Convert to Configuration Operation Configuration Component Schema Datasources Component Schema DataSystemic Hoot Name Port Schema Own Schema Pass Component Schema Datasources Component Schema DataSystemic Hoot Name Port Schema Own Schema Pass Component Schema Datasources Operation MOS Schema PKOLSPOSAPF map00agz us. or 1521 APPNAME_MU Operation Schema PKOLSPOSAPF map00agz us. or 1521 APPNAME_MU	JDBC Component Schema				-		
Configuration Progress End Of Cooperation Component Schema DBMS/Service Host Name Port Schema Ow. Schema Pass End Of Cooperation ULS Schema PKOLSPOSAPE map00ayz.us.or 1521 APPNAME_NL OWSM MDS Schema PKOLSPOSAPE map00ayz.us.or 1521 APPNAME_MD OWSM MDS Schema PKOLSPOSAPE map00ayz.us.or 1521 APPNAME_MD OWSM MDS Schema PKOLSPOSAPE map00ayz.us.or 1521 APPNAME_MD OPSS Audt Schema PKOLSPOSAPE map00ayz.us.or 1521 APPNAME_MU OPSS Schema PKOLSPOSAPE map00ayz.us.or 1521 APPNAME_OP	Templatan Application Location Administrator Account Domain Mode and JOE, Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Convertion Baranisters Hoot Name Difficulturone Spheres Gener Dracks Kall, configuration fi	O domai P S or composent	lan (JRL String) of [Nerva Facourd] albertae		in: Oteent	(provent
	Configuration Summary Configuration Progress	Component Schema LucalSvcTbl Schema WLS Schema OWSM MDS Schema OPSS Audt Schema OPSS Audt Viewer Sr OPSS Schema	DEMS/Service PKOLSPOSAPF PKOLSPOSAPF PKOLSPOSAPF PKOLSPOSAPF	Host Name map00ayz us.or map00ayz us.or map00ayz us.or map00ayz us.or map00ayz us.or	Port 1521 1521 1521 1521 1521	Schema Ow APPNAME_STI APPNAME_MU APPNAME_MU APPNAME_IAU APPNAME_IAU	······

Application Location Administrator Account	S Schema jdbc oracle thin @Wimsp0Dayz us ora- lit Schema jdbc oracle thin @Wimsp0Dayz us ora- lit Viewer Schema jdbc oracle thin @Wimsp0Dayz us ora-
Application Location Administrator Account Domain Mode and JOX Database Configuration Type Component Dataspurces JDBC Test Advanced Configuration	S Schema jdbc oracle thin @Wimsp0Dayz us ora- lit Schema jdbc oracle thin @Wimsp0Dayz us ora- lit Viewer Schema jdbc oracle thin @Wimsp0Dayz us ora-
Administrator Account Administrator Account Domain Mode and JDX Database Configuration Type Component Datasources JDDC Test Advanced Configuration	it Schema jdbc oracle thin @Wmsp0Dayz us ora it Viewer Schema jdbc oracle thin @Wmsp0Dayz us ora
Oomain Mode and JOK Image: Configuration Type Database Configuration Type Image: Configuration Type Component Datasources Image: Configuration Type JDBC Test Image: Configuration Type	it Viewer Schema jdbc orscle thin @Wmsp0Dayz us ora
Database Configuration Type Component Dataspurces JDBC Test Advanced Configuration	and the second
Component Detesources JDBC Test Advanced Configuration	eme jdbc.oracle.thin.@Wmsp0Dayz.us.ora
JDDC Test Advanced Configuration	
CPGFWK-64213: No ac	connection test was successful.
A	

13. Click **Next** and it will test to make sure it can connect to your datasources.

- **14.** Click Next to continue
- **15.** Select advanced configuration for:
 - Administration Server
 - Node manager
 - Managed Servers, Clusters and Coherence
 - Deployments and Services

- **16.** Configure the Administration Server:
 - Server Name: <APP name>_AdminServer
 - Listen address: Appserver Hostname or IPAddress of the Appserver Host.
 - Listen port: <Port for Admin Server> Note: The port that is not already used.
 - Server Groups: Unspecified

	Fusion Middle	eware Configuration Wizard	l - Page 10 of 23	
Administration Server				
Constant Comman Jernalistes Application Location Administration Configuration Destablisher Configuration Tyr Component Datasources Distablisher Configuration Administration Server Matoget Configuration Matoget Configuration Conterning Configuration Server Templotes Conterning Clusters Matchines Yorkust Tengeting Services Deployments Tengeting Services	Server Name Usten Address Liatan Port Enable 551, SSL Listen Port Server Groups	7001 t	ot contain any, = + # % #_claned.	
D+b			< gack Best > from	Central

17. Configure Node Manager:

- Node manager type: Per domain default location
- Username: weblogic
- Password: <Password for weblogic>

	Fusion Middleware Co	nfiguration Wizard - I	Page 11 of 23	00
Node Manager				
Create Domain Templates Application Location Administration Account Domain Mode and (D): Database Configuration Typ Component Delasources DODC Test Administration Servers Clusters Backer Templates Coherence Clusters Hachines Yorkul Targets Partitions Deployments Targeting Deployments Targeting Contactions	Hanual Node Hanage Hode Manager Creden Userniems Possword Confirm Password	utation [Configuration and the or status status automatic flats automatic flats automatic flats automatic flats automatic flats	ntonmontti eksikkiskinainge	
Help			< Back Next > Smith	Cancal

18. Click the **Add** button.

- Server Name: <appname-server>
- Listen address: Appserver Hostname or IPAddress of the Appserver Host
- Listen port: <Port for Managed Server> Note: The port used here must be a free port.
- Server Groups: JRF-MAN-SVR

	Fusion Middlewars	Configuration Wizar	d - Page 12	t of 23		3 8
Managed Servers						
T Create Dometri	💠 add 🛛 🖹 C	jone 🔀 Delete			🗐 Diega	rd Changes
Application Location Administrator Account	Server Name	Listen Address	Usten Part	Enable 55L	SSL Ueten Part	Server Groups
Domain Hode and JDK	appsever-name	Ahlhoethame.us*	7000	D.	Disabled	RE-MAN-S. *
Component Datassurces						
IDDC Test						
Advancest Configuration						
Node Hansper						
Anaged Servers						
- <u>Chusters</u>						
Coherence Clusters						
- Machines						
Virtual Targets	**					
Pepinyments Targeting						
Services Targeting						
Help (1	7		≪ <u>B</u> aci	Next >	Die Britte	Cancel

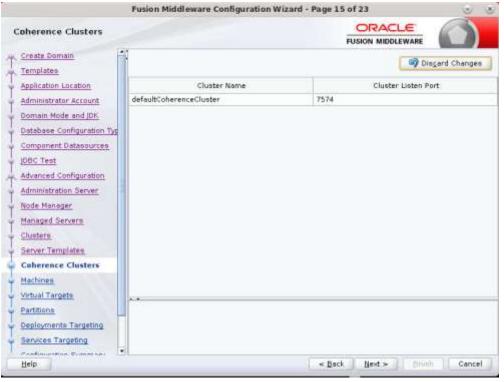
19. Skip Configure Clusters and click **Next**.

Clusters					
Create Domen	🔶 gad 🗙	(jeieta		1	Disgard Changes
Applexiton Location	Cluster Name	Cluster Address	Pronbend Host	Prontend HTTP Part	Prontend HTTPS Part
Comein Mode and JDK.					
Database Configuration Typ Component Datasources					
IDBC Test					
Advanced Configuration					
Node Manager					
Managed Servera					
Clusters					
Server Templates					
Coherence Clusters Machines					
Machines Minual Targets					
Machines					
Machines Minuel Targets					
Machines Mittudi Targets Partitions					

20. Do not change anything and click **Next**.

	Fusion Middleware Confi	iguration Wizard - Pa	ge 14 of 23	00
Server Templates				and the second s
Templates	Add Notes			🗐 Disgard Changes
Application Location	Name	Listen Port	SSL Listen Port	Enable SSL
Domain Mode and JDK Database Configuration Typ	wsm-cache-server-temp wsmpm-server-template	7100	8100 8100	0
JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherence Clusters				
Machines Virtual Targets Parktions Deployments Targeting Services Targeting Configuration Systems				
Help			< Back Next >	Emilith Cancel



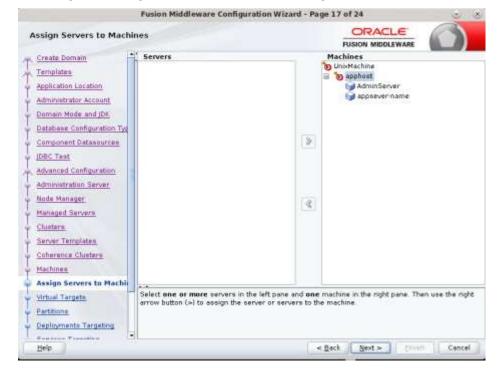


- **22.** Configure Machines Select unix Machine :
 - Click the **Add** button.
 - Name: apphostname_MACHINE

- Listen address: apphostname or IPAddress
- Listen port: <Port for node manager>
- Note: The port used here must be a free port.

Machines					-		
Create Domen Templates Application Location		lachine Colete				🤤 Diega	rd Changes
Administrator Account Domain Mode and JDK	Name	Enable	Post Bind GiD	Enable	Post Bind UID	Node Menager Listen Address	Node Manager
Database Configuration Typ	apphost	0	nobody		nebody	APPhost.us.oraci	. 5556
Advanced Configuration Administration Server	8						
Administration Server Node Manager Managed Servera Clusters Server Templates Caherence Clusters Machines Assign Servers to Machines Virtual Targets	- * *						
Administration Server Node Manager Managed Servera Clusters Server Templates Coherence Clusters Machines Assign Servers to Machines	+*						

23. Assign the configured Admin server and managed servers to the new machine.



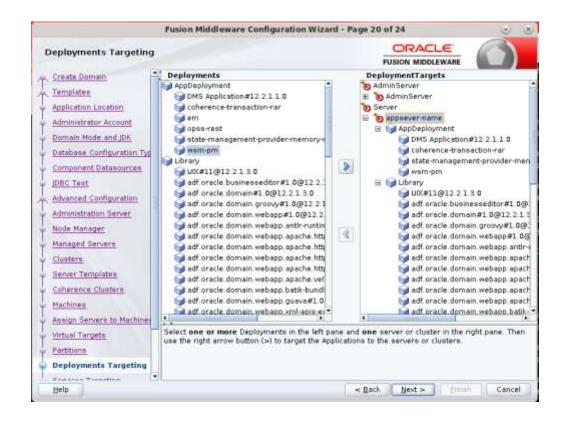
24. Skip Virtual Targets. Click Next.

- T	Fusion Middlewar	e Configuration W	lizard - Page	18 of 24		3 3
Virtual Targets					otranete la la	
Templates	🔹 Add 🗙	eiste			🧐 Disgard C	hanges
Application Location Administrator Account Domain Mode and JDK Database Configuration Typ Component Datasources IDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Server Templates Coherance Clusters Machines	Name	Terget	Host Narries	URI Prefix	Explicit Port	Port Offset
Assign Servers to Machines						
Help			< <u>D</u> e	eck Next >	Benight	Cancel

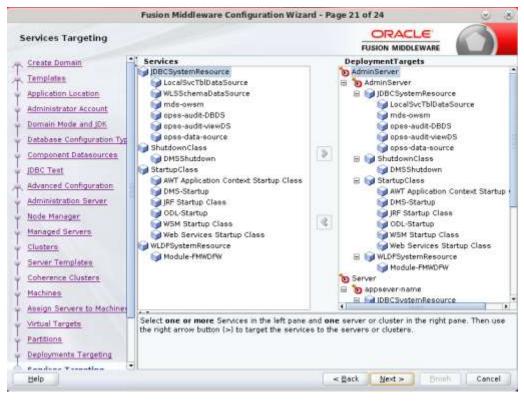
25. Skip Partitions. Click Next.

Fusion Middleware Co	onfiguration Wizard - Page 19 of 24	0 8
Partitions		
Templates	🖙 Dissar	d Changes
Application Location Administrator Account Demain Mode and JDK Detabase Configuration Typ Component Datasources JBC Test Advanced Configuration Administration Server Difference Clusters Clusters Server Templetes Coherence Clusters Machines Assign Servers to Machines Virtual Torgets Partitions Deployments Targeting	Name	
Eres from Transform	< gack Next >	Cancel

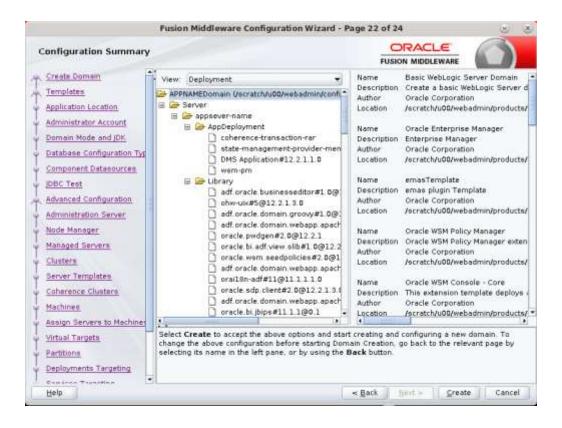
26. Target the "wsm-pm" deployment to APPNAME_AdminServer:

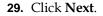




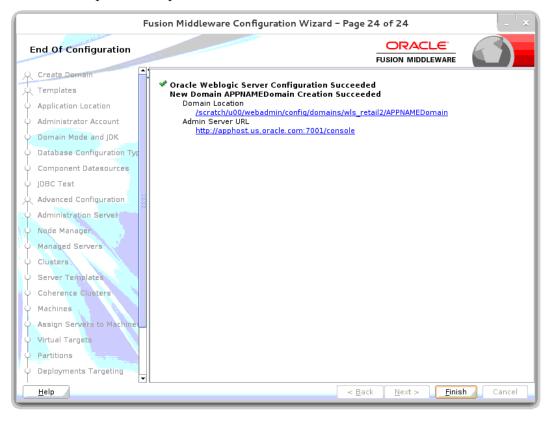


28. .Click Create.





	Fusion Middleware Configuration Wiz	ard - Page 23 of 24	S (S
Configuration Progress			
🖳 Create Domain			
Templates		100%	
Application Location	Copy Unprocessed Artifacts		
	 OPSS Processing 		
	OWSM Processing		
🔶 Domain Mode and JDK	Security Processing		
U Database Configuration IVE L	Artifacts Generation		
	String Substitution		
Component Datasources	Post Processing		
Ý JDBC Test			
🔍 Advanced Configuration 🛞			
🔶 Administration Server			
V Node Manager			
Managed Servers			
Clusters			
Server Templates			
Coherence Clusters			
Machines			
Assign Servers to Machines	8 .		
Virtual Targets			
Partitions			
Deployments Targeting			
Consisse Taxasting			
Help		< Back Next > Finis	h Cancel



30. When the process completes, click **Finish**.

Start the Node Manager

1. Start the nodemanager from <DOMAIN_HOME>/bin using the following script: nohup ./startNodeManager.sh &

Start the AdminServer (admin console)

- **1.** Configure boot.properties for starting the Weblogic domain without prompting to username and password using the following command:
- 2. Create security folder at <DOMAIN_HOME>/servers/<AdminServer>/ and create boot.properties file under <DOMAIN_HOME>/servers/<AdminServer>/security The file 'boot.properties' should have the following:

```
username=weblogic
password=<password>
```

In the above, the password value is the password of WebLogic domain which is given at the time of domain creation.

Save the boot.properties file and start WebLogic server.

3. Start the WebLogic Domain (Admin Server) from <DOMAIN_HOME> using the following:

```
nohup ./startWebLogic.sh &
Example:
```

nohup

/u00/webadmin/config/domains/wls_retail1/APPdomain/startWebLogic.sh &

 Access the Weblogic Admin console Example: http://<HOST_NAME>:<ADMIN_PORT>/console In the below screen, provide username=weblogic and password=<weblogic password>



Start the Managed Server

After the NodeManager is started, the managed servers can be started via the admin console.

Navigate to Environments -> Servers and click the Control tab. Select appname-server and click **Start**.

CREACLE men.egs bever	(Parall 001) 1 1 1 4 4 1 1			
(Territor Control	The same ran by balances by balance and it			Without
These phones and subjects (into our 2 Michael on the statistic stress ments have a Michael on the statistic	Horney Control of the second s			
Des site	Terranter Conner			
Parameter Sections Interest Research Interest Res	tel biografi complete rest. On oracione con la diagna and income con a period	ng propaga ana agat ang propaga ang		anatatist ann as
1000 B L	and party party (second party)		. (minu)	Barren and all Annual free
 Maximum and Second data for - Mathematic Seconds - Mathematical Seconds - Mathematical Seconds - Mathematical Seconds in Additional Seconds - Mathematical Seco				

Managed Server should be up and running before configuring further steps

Configuration of OID LDAP Provider in Weblogic Domain:

Perform the following procedure to create LDAP providers in the domains created in the previous steps

- Log in to the Administration Console. http://<HOSTNAME>:<ADMIN PORT>/console
- 2. In the Domain Structure frame, click Security Realms.
- 3. In the Realms table, click myrealm. The Settings for myrealm page is displayed.
- **4.** Click the Providers tab.

	A CONTRACTOR OF A CONTRACTOR O		
Harrise Little			Witness in bigs - consists all the way
the interest and testarts		Philipping and denses from charles Provide later result. Provide	
And the case of Art to the To reality, only to	Settings for success		
10.0.000 million	(charter) and all the all times (counted that a	Investor Income	
Theorem Conference	Administra Incortinguese Allenges Alphanes In		
S-Dures.			
- phone in a faith of the second seco	Notified also freedown Million a cont a statution of the characteristic in a family of the characteristic (specific statution) (second)	10000020 ×	(here)(a)(d) feeta()ee
Totalitation Teacontologia Teacontologia Teaching Teachington Telling Teachington Teaching Teachington	And the second se	Trans.	Sturing (), 1 (1) Presse () Pre
To the extended of the time of the extended of the time of the time of the time of the time of the extended of	March and a set of the	1000/0224	
Todowna Califie Tomora Califie Roman Price Program Reference Statut Research Statut Program Statut Program Statut Program Statut Program Statut Program Statut Program Statut Program	Non-and California in the second state of the second later part (here:	Beautive (-
To Branch and Ballach Branch and Branch Branch and Branch		Secretaria Nucl Secretaria	wine 14

5. Click **Lock & Edit** and then click **New**. The 'Create a New Authentication Provider' page is displayed.

GRACLE Wellogs laver a			•
Harpe loaded	R bert bit bij bannen 1	El Russi elle I La J	Makan added Sciences, Although Son
the manager and restored	THE OWNER PERMIT	the Parameter Security Planet and an effort which comes a first state of the security Planet	
Name and Address of the State of States	Condex a first interestantion of	terestra de la constancia	
Contraction in the state of the state of the	lini Talent		
COLUMN PROCESSION	575 FUHAD CA 9854		
frans infanter	191910 o new Authority Mich		
freest Touiss	**************************************	per l & density and sec of general to generalize generality.	
Pat Dean			
E' tissue inclines	Top same of the Adversaria of	-	
P Spraw Indiana - Smart - Sm	- 1 kmm	Of Subata and	
Comments Outline	The A Party is a function of	annes ye with seen	
Passed line families	Text .	Dischargereil Sie has Aufbarts and A	
Terrar Degree Terrar Terrare Terrar Terrare	SHI SHEK		
mail.	90 - C		
a lange in all position			
Collegest Automatication and Interests	-		

6. Enter OIDAuthenticator in the Name field and select OracleInternetDirectoryAuthenticator as the type. Click **OK**.

leage (1489)	B min (a b) finance Si knot an () (A		Status and an interaction of American
distant and some the	And the fact of the second states of the second states of the	and shares from a solution of the second state of the second state of the second state of the second	
stry data out, Barristin aduet	a better to specia		
and stores Drawn	(inferent) investories (ton or block) inc	na hara hadan hann	
ton a taken		alara (tal faara) kalin (lands hajin) lankasa (di	
Robert and			
Banner Banner Banner Banner (Faan) Banner (Faan)	A Contract of the Color And Contract on Contract (Sec. 2007) (Assoc)		mong you die female and
Parente Control Control Nameda (Name Nameda (Name	And the local data	-	(Bourg (16.67) - Normal) (See
Banning Colorest Colorest Description Description Description Description	Automatica Australia	Norgani Nationa techniques trans	have been and the second
I Boom I Conserve I Conserve	International Associations		have been and the second
Boom Support Supp	Martine Contraction	That being bards repairing the test	have been and the second
Boom Support Supp	Automatica Contractor	The of person limit the formula for time through the formula formula formula through the formula formu	have been and the second
Booms Booms Booms Derive County	Advances human Sec 1001 Asian Ver 1001 Asian	The Chance is the Chancel on the second seco	have been and the second
Been Deepe Corperation Deeperation Deeper De		The of person limit the formula for time through the formula formula formula through the formula formu	10 10 10 10 10

7. All the providers are displayed. Click **OID Authenticator**. Settings of OID Authenticator are displayed.

	previatable Console 121	
Change Center	🔒 Home Log(Dull Pherboom	n Sal Passed Print
View charges and restarts	ment iduntity of Series 1-5	enny d'Ennineet claning d'Annes dorring d'Antoin agulat dorring d'Ennis Jaminig d'Enois Annes ognits Honins dilbAtheliak
Pending changes past, They must be activisted	Settings for UDIAuthentical	
Activate Changes	Configuration Performant	8
Unix At Disease	Common Provide Souch	
Derson Stracture	Secti	
Amerika Sporten	This page displays have: who	rmation about the Grade Informat Devotory Authentication provider. You can also use the page to set the DAA3 Control Reg to control from the provider is use
Setwork P-Ourses	A Norse:	00Authentisate
Coheneras Chutens Resource Groups	Description:	Resider that performs (DMP authentication using Oracle Dreamer Developy
-Resource Sinian Templetee Hischines	C Version	10
	Control Plag:	SUPPLEMT +
-Carcument Templotes Services Meconomyont	Section	
How de L. =		
Configure the Oracle Internet Direction Authentication provider		
 Configure Authentication and Dentry Assertant providers 		
 Set the JANS cannol Tag 		
· Configure the Personni Validation provider		
 Manage sacurits providers: 		

- 8. Set the Control Flag field to SUFFICIENT and click Save.
- **9.** From the Providers tab, click on DefaultAuthenticator -> Configuration tab -> Common tab. Update the Control Flag to SUFFICIENT.
- **10.** Click Save.

Change Centra	😰 Harris Log Cull Preferences 🚮 Record Help		
view changes and restarts	Home -Summing of Service -Summary of Pachness read	had sharing of Servers' Servers of Second Audre - metales - President (SDA) burbarbarbar - DefaultAuthorburbarb	
Pending changes exist. They must be activated	Settings for DefaoitAuthentisator		
to take effect.	Configuration Performance Projection		
Units Al Disriges	Common Provider Specific		
Dowin Structure	Set		
aPPtapをDorsen ・ 中 Demain Partitions 日 日 Environment	This page displays basic information about this Web	Logic Authentication provider. You can also use this page to set the 34AS Control Flag to control how this provider is used in the login sequ	
Servers T-Chasters	(E Neret	OvfaultAuthetticator	
Coleverve Clusters - Remote Dropt - Remote Dropt	👘 Description:	Weblage Aufhentration Provider	
"Hadenes	(wnioc	10	
	Control Play:	SUFFICIENT *	
-Concurrent Templetes	[5664]		
How do I			
Configure Authoritization and Islandby Assettion providers.			
Configure the Personal Valuation provider			
 Set the IAA3 control flag. 			
 Herage security provident 			

- From the Providers tab, click the "OIDAuthenticator" (you just created), in the configuration -> Provider Specific tab enter your LDAP connection details: The values shown below are examples only. You should match the entries to your OID.
 - Host: <oidhost>
 - Port: <oidport>
 - Principal: cn=orcladmin
 - Credential: <password>
 - Confirm Credential: <password>
 - User Base DN: cn=users,dc=us,dc=oracle,dc=com
 - Enable 'Use Retrieved User Name as principal.'

thursday instead	Contraction (Andrewson and An	4. ·	Roburg, and age in control and all the
man datasi seli tempti	man in prosent of the star in process of function function of the start of the star	A giberty-store	
to parenting charges such that the Weissen-	And image from CAD Inter Research on the		
Surfacebook forms to affect of and to well the damage.	Industria Velocara		
Del Sèl	Transfer Specific		
Anna Collector			
international and a second	386		
Children .	Any discount is define the proved survey and to compare the two bands into	of The state of the state street in.	
A Datasi Datibasi			
	- Interview		
- Colorent (Soler)	Not	and part on one in our	The final reasons of the state of the state strength oscillation strength os
- Territoria Design - Subscript Design Terriptikan - Territoria	~	-	The part makes or which the CDP wave or binning. Here Selec.
Friday (1990) Friday (1990)	Present	(miniation	To the providence of the state
- Part Perspect	- Contential		The second locally consection is a second to be defined. And the
tet L	tooline to be the	(*************************************	
Configue de Conde Salerei Daniego Aufleituigue gràciter	Distanted		Number within the Character Analytic and one constitue to be 200 more. Build fig.
Colline Advantation and Intellig Assesses provides			
Weinight and the planetter			
	https://www.iki	10100001.80101.81103636.0	Service and particular part of the new second service and some over the part.
Autor States	End from Tiller	Mare" star Manywood	(c) (b) parts the lot being do not remark the loss car interpret of the loss of the second s Second second seco
contract (10) (contract and (10)	Citar Sun Nam (Bar)	No Sugarante and parts	a) and speed the to form a set and for our of the any first are parted for any first and the set of the transmitted of the first set and the antidae antidae attracts. Here (4):
(Common 101	User Insult larger	(WHEN Y)	spectra by any cost 122 descent to the Call Information made shall been be used. Multiples.
	Cher besc Ablahr	10	In such that the second second from a later with the second s
	at that Hand Gam	3M10	Taijal dan bin ba manan malaka
	of the failured line face of frequent		species where it is the up in a simulation to be used in a fit where the same in the basis. We

12. Modify the following:

Group Base DN: cn=Groups,dc=us,dc=oracle,dc=com

cn=groups,dc=us,dc=oracte,t	The bas
(8(cn="))(objectclass=group)	An (DA) Se mod Nore In
()(&(cn=%g)(objectclass=grou	An LDAF recodula
subtree •	Specifie
unlimited •	Specifie off. Ma
Q	Specifie tobriste positive
	Determi Info
	(&(cn=*))(objectclass=group) ()(&(cn=%g)(objectclass=grou subtree • unimited •

13. Check Propagate Cause For Login Exception

- General	
Connection Pool Size:	6
Connect Timeout:	0
Connection Retry Limit:	1
Parallel Connect Delay:	0
Results Time Limit:	0
Keep Aire Enabled	
😴 Follow Referrals	
🗄 👩 Bind Anonymously On Referrals	
🐮 륝 Propagate Cause For Login Exception	

14. Click Save.

15. Click the Providers tab.

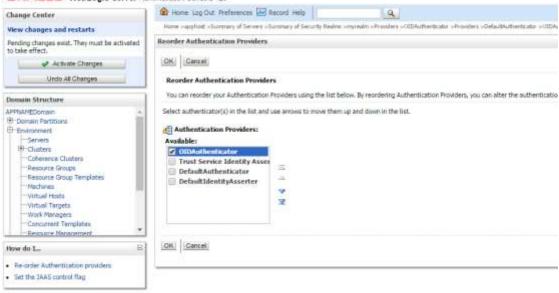
ORACLE WebLogic Server Administration Console 12r

Change Cester	Di Huma Log Cot Hefeneruss 163 Facuri Help	9			
New changes and restarts	None regulated in Summary at Serveral InSummary at Security Realine responses	with (Providers -) Electronicate (Providers -) behaditudes/cater -) EDA directionate (Providers			
Pending changes exost. They must be activated to take effect.	Settings for myrealm				
Actuals Charges	Configuration Liters and Groups - Roles and Policies - Greden	laf Mappings Providians Migration			
Units at Charges	Authentication Passion Validation Authorization Adud	cation Role Happing Auditing Credential Mapping Certification Path			
APNAMEComer APNement Environment Environm	An Authentication provider allows WebLogic Server to establish trust by veliciting a user. You must have see Authentication provider in a security reality, and you can cardigue a IDAP servers of DBMS.				
-Resource Group Templates					
- Resource Group Templates - Nachinas - Wetual Hosta	D Name	Description			
- Flachstwa Virtual Hosta - Virtual Targeta	Name Trust Service Memory Asserter	Description Trust Service Service Assertion Provider			
- Nachines Wrtail Hoda Wrtail Tergets Work Panopers Concurrent Templates	El States and the second second				
Hardson Wrtaal Heats Wrtaal Heats Wurk Hangen Gestaanent Templeten Beslaat h Went Heatt	C Trust Service Mentity Asserter	Trust Service Identity Assertion Provider			
- Nachines Wrtail Hoda Wrtail Targeti Work Brancpers Concurrent Templates	Trust Territo Mentry Assertar CefaultAuthentsatur	Trust Service Edentity Assertion Provider WebLags Authentication Provider			
Hechises Witad Isata Witad Targets Witad Targets Concurrent Targetas Essence to The networks Second to La	Trust Senice Merity Assette Default/Astronome Gefault/Astronome Gefault/Astronome	Trust Senico Identity Azoetton Provider WebLogic Authentication Provider WebLogic Identity Asoerton provider			
Hechow Withal Hata Withal Targels Configure ActiveDedus and Elective Configure ActiveDedus and Elective Configure the Falseword Validation provider	Trust Tenden Merithy Asserter Defaultiv/Aneritation Defaultiv/Aneritation Defaultiv/Aneritation Defaultiventry/Asserter DOductiventry/Asserter DOductiventry/Asserter	Truct Service Identity Assertion Provider WebLogic Authentication Provider WebLogic Identity Assertion provider			
Pledises Wiski Tarpis Wiski Tarpis Wiski Tarpis Wiski Tarpis Wiski Tarpis Wiski Tarpistes Ensure Tarpistes Ensure Tarpistes Softgare ActiveOcolow and Elector	Trust Tenden Merithy Asserter Defaultiv/Aneritation Defaultiv/Aneritation Defaultiv/Aneritation Defaultiventry/Asserter DOductiventry/Asserter DOductiventry/Asserter	Truct Service Identity Assertion Provider WebLogic Authentication Provider WebLogic Identity Assertion provider			

16. Click Reorder.

17. Move OIDAuthenticator to the top of the providers list.

ORACLE WebLogic Server Administration Console 12c



18. Click OK.

19. Once your changes are saved, click Activate Changes.

Change Center	R Hares unp Dud Praferencies 🔐 Liccorr Help	14
New charges and restarts Out-the cost & Bittly,ther to restify, add or defensions in this domain.	Term - august - Gorman of Series - Gorman of Secult Institut - research Research of 10 designs from Secularized, Houseon 2 Notes read to restarted.	
Los A EM	Settings for represent	
Annue Sofgerier	Configuration Lines and Groups Roles and Policies Crallential H	agenge Prevident Highton
Oversain Structure	Authentication Password validation Authorization Adjudicate	e Rule Hageng Auditing Gesential Hearry Certification Path
Darres Duren Charenor Custors Result Grups Result Grups Indules Unital Rods Unital Rods Unital Rogen Unital Rogen Unit Hangper Comarine Trepdate	LDAP servers a 1995. © Cantinement this table Authorities Prevalens Child the Land & California in the Ownye Canter for activate all the top [Tense] [Tenses]	fan in Tis ang.
How do L. (1)	Name	Description
	Distributive Color	Private that performs (24P authentication using Cracle Internet Devictory .
 Configure Authoritization and Identify Assertion providers 	That Denka Menthy Automore	Trust Service Denitry Asserbury Provider
· Configure the Personnel Vehicitor provider	Ortablutherbotter	Heliuge Authentication Rooslee
 Herage actually priorities 	G Dyla-Riterttyleante	Walkage Meetty Assertion provider
 Set the 35AC control Reg Re-order Authoritication providers 	[mail (Dam) [/hunder]	
System Status		
Health of Purring Servers		
Parker (20) Critical (20) Divergential Weining (21) Dis (21)		

20. Shutdown all servers and restart the admin server using startWebLogic.sh script. Login to Admin Console and restart Managed server.

Verify OID Authenticator

- Log in to the Administration Console. http://<HOST_NAME>:<ADMIN_PORT>/console/
- 2. In the Domain Structure frame, click Security Realms.
- 3. In the Realms table, click Default Realm Name. The Settings page is displayed.
- 4. Click the Providers tab. You must see the OID Provider in that list.

CIRACLE weblogs Server a			
(Deres lastes	Represented thereares and the same of		Webcom, and App. Constitution and Applean
New Horses and restarts	Serie (Achieve & Secure Reality research - Secure V Secure - 49		
that the loss & Bill Suffrances manife, sale or	Setting the seconds		
Aparts Gardy of Real Specials	Delignation test and itrage Name and Names test	Add Paulting Providence Highware	
Trans Longston	Automation Frances Automation Sta	data his here here here here here here	
Nexus Brailer Charles States Barrows Caracter Caract	An advanced or provide divery relating to our is mainly that answer 1996; B Contenues The Lath Advanced the Development That is a loss of Defection or the Development is advanced That is a loss of Defection or the Development is advanced That is a loss of Defection or the Development is advanced	na ha alama ya an nu na ha na kalena an kalena anan na ya an na anan na ka an an angan habah kalen kalena anan na a a Malalaman Kayaya	urb were (Meeri tam of Automatica provinci are angenti a tam Africa (ant and a) Banang (ant of a)
			and the second se
	Rent	Beering and a second se	The second se
	- Churchertophi	Provide that performs 2007 public states array limits between Destroy	18
dentation of the	Trad Territol Street, Agenus	That be an identic experime framile	1.0
	artication and	(Hitspace Authority) in a second	10
 Intelligent Auflerfreident auf Merring Beseiten geseitete 	Selection of the second	Helicy, Detto, Apelon prodet	54
Configure the fraction of contents around Manage and contents Safety of the field content flag For each order fraction processes	Dec. Solid. Name		Barry 1994 A Barry Carl
Series Rates 7 Sealt of Long Series			
Apple 101 Consult (3) Constanting 101 Constanting 101 Constanting 101 Constanting 101 Constanting 101			

5. Click the Users and Groups tab to see a list of users and groups contained in the configured authentication providers.

ange Canter	1 1 10 10	ta Laylud Automati and tank (Witness without income the defeations
was thereasy and restarts		Contract of State & State of S		
hat the cost & 2017 ballion to resulting and in	1	a for expression		
and damp in this parameter			1.11.7 Mar. 27 A	
	1000	union (Mars and Groups) Inter-and Adding Contend Heartype	and the	
Read Torquests		(lever)		
ment Machan Pacificany Second Aplican Second Statement Second		paga Magnasa aliminakan akua padi awa tud hat kao awafiganan kitu wa namuru Man katal Kitikanan Mana Lakaman Katal		
Texanic Andrea		(Thereit		(Incode j) to (4 of (4), Annious) into
- Sepretry		Aprel 11	Tearging	President
		and better description of the local	A unit for the test former form their was	(California)
		OBDAG_PRANT	A lost for the following baseling provider com-	Of Advances
		10(1007),14100(1,19000)81,1000	A user for the Incounty Hunder Hemper with	CEAMMENT
		and the second sec	inditionalizer	(GAdwarde)
e ti la	16 L	and when the	A case for the factory estimated with	(C)+-(harmone
Techni como est annos		Adverse .	A user for the 'Albertha's Persper' talk.	COA/Permane
franklik (serri)		4-30 (24-00	A care for the following with	CEAdminister
Part Country		Autor Ton, America	A cast for the 38M attait Augli attain Administration 1000	OSR-Burelana
Debers warn		ALLOUPDA, JENARD	A year for the solution (site descent size	Olikefeetate
		016/10/A_30/06.000	is part for the bedomial base cost lines.	(distance)
alaas (Rafes)	100	a These		Wants 21021 of 275 Personal Tend
diff, of Reaming Spream				
Autora (1)	-			
Contrast (F)				
Contrade III				

Clustered Installations – Pre-Installation Steps

Skip this section if you are not clustering the application server.

If SIM is being installed into a clustered environment, the "Cluster Address" field must be set prior to installation. This is set in:

Clusters -> sim-cluster (or name of your cluster) -> configuration (tab) -> general (tab) Set the address to your cluster in the "Cluster Address" field, for example, apphost1:7143,apphost2:7143

Home >5		of Clusters >s			n(1	Q			and give co	onnected to: SIMDor
ettings fo		1. CO 10. C								
Configur	ation	Monitoring	Control	Deployments	Services	Notes				
General	JTA	Messaging	Servers	Replication	Migration	Singleton	Services	Scheduling	Overload	Health Monitoring
HTTP	Coheren	ice								
Save										
Name:	ilt Load	i Algorithm:	Ð		-duster und-robin	٠	Uses a configu Define betwee particu throug	n MBean to imp aration, More s the algorithm en replicated se far service, Thi	to be used rvices if noi round-rob Logic Serve	for load-balancing ne is specified for a in algorithm cycles ir instances in order.
Chust	er Addı	resst			apphost 714	Lorappi	The ad uses to genera address name 1	signed weight f ing, requests a m. More Info. idress that for o connect to th ting EJB hand ses. (This addr that maps to n	or each ser re routed to " is a portion is cluster, a es and entit ess may be nultiple IP ac	n of the URL a clent and that is used for by E3B fallover either a DNS host

Expand the SIM Application Distribution

To expand the SIM application distribution, do the following.

- Log in to the UNIX server as the user who owns the Web Logic installation. Create a new staging directory for the SIM application distribution (sim14-application.zip). This location is referred to as INSTALL_DIR for the remainder of this chapter.
- **2.** Copy sim14-application.zip to <INSTALL_DIR> and extract its contents.

Set the LANG Environment Variable

The LANG environment variable must be set in the profile of the UNIX user who owns the application server ORACLE_HOME files. If you change the value of LANG or set the value for the first time, you must restart the Application Server in order for the change to take effect.

Example:		
LANG=en_US		
export LANG		

Set the Environment Variables for the SIM Installer

1. Set the following environment variables for the SIM installer (the following are just examples, use values for appropriate for your environment):

```
export ORACLE_HOME=/u00/webadmin/product/wls_retail
export
WEBLOGIC_DOMAIN_HOME=/u00/webadmin/product/wls_retail/user_projects/domains/SI
MDomain
export JAVA_HOME=/u00/webadmin/product/jdk_java
export PATH=$JAVA_HOME/bin:$PATH
```

2. If a secured datasource is going to be configured you also need to set "ANT_OPTS" so the installer can access the key and trust store that is used for the datasource security:

```
export ANT_OPTS="-Djavax.net.ssl.keyStore=<PATH TO KEY STORE> -
Djavax.net.ssl.keyStoreType=jks -Djavax.net.ssl.keyStorePassword=<KEYSTORE
PASSWORD> -Djavax.net.ssl.trustStore=<PATH TO TRUST STORE> -
Djavax.net.ssl.trustStoreType=jks -
Djavax.net.ssl.trustStorePassword=<TRUSTSTORE PASSWORD>"
```

An example of this would be:

```
export ANT_OPTS="-Djavax.net.ssl.keyStore=/u00/webadmin/product/wls_retail
/12.2.1.4/server/lib/orapphost.keystore -Djavax.net.ssl.keyStoreType=jks -
Djavax.net.ssl.keyStorePassword=retail123 -Djavax.net.ssl.trustStore=/
u00/webadmin/product/wls_retail /12.2.1.4/server/lib/orapphost.keystore -
Djavax.net.ssl.trustStoreType=jks -
Djavax.net.ssl.trustStorePassword=retail123"
```

Run the SIM Application Installer

This installer configures and deploys the SIM application and Java WebStart client files.

- 1. If you are using an X server such as Exceed, set the DISPLAY environment variable so that you can run the installer in GUI mode.
- 2. Verify that the managed server to which SIM will be installed is currently running.
- Run the install.sh script. This launches the installer. After installation is completed, a detailed installation log file is created: <INSTALL_DIR>/sim/application/logs/sim-install-app.<timestamp>.log.

Note: The manual install option in the installer is not functional for this release. See the section, "Files not available to copy at the end of installation, results in non-working applications – Weblogic only" in Appendix E: Common Installation Errors.

Note: See Appendix: SIM Application WebLogic Server Installer Screens for details on every screen and field in the WebLogic application installer.

Note: See Appendix: Common Installation Errors for details on common installation errors.

Clustered Installations – Post-Installation Steps

Skip this section if you are not clustering the application server.

If you are installing the SIM application to a clustered WebLogic server environment, there are some extra steps you need to take to complete the installation. In these instructions, the application server node with the ORACLE_HOME you used for the SIM installer is referred to as the master server. All other nodes are referred to as the remote server.

- 1. Copy the <weblogic domain path>/retail/sim14 directory from the master server to each remote server that is a member of the cluster that contains the deployed sim application.
- **2.** If SIM has been installed in a cluster the Migration Basis needs to be set to use "consensus" and all machines in the cluster chosen for migration. This is done with the following procedure.

Note: This needs to be done after the SIM application has been successfully installed to the sim-cluster using the SIM installer. If the SIM application is ever re-installed for any reason the following will have to be re-done as well.

- 3. Click Lock & Edit in the Change Center.
- Go to cluster migration screen in the Weblogic Administration Console. i.e.: SIMDomain > Environment > Clusters > sim-cluster > Configuration (tab) > Migration (tab).
- 5. Set migration basis to Consensus.
- 6. Select all machines in the SIM cluster as candidates.
- 7. Click Save.
- 8. Click Activate Changes in the Change Center.
- **9.** Restart the servers in the SIM cluster.

The migration setup should look similar to the following:

Settings for sim-cluster							
Configuration Monitoring	Control De	ployments Ser	vices Notes				
General Messaging Server	s Replicatio	n Higration	Singleton Services	Scheduling	Overload	Health Monitoring	ЧПН
Save							
If a clustered server fails, Hode Manager can restart migratable						ne. This page allows y	ou to specify the machines where Node
Candidate Machines For Available:		iervers: Chosen:			. wil	e set of machines (ar Frestart failed server toniatic migration.)	d order of preference) on which Node Nonager 5. (Requires you to enable each server for Nore Info.
	20 20 42 20	III sim-mach III sim-mach		N 4 4 N			
👘 Migration Basis:		0	Consensus 💌			ntrolo the mechanian form	used for server and service regration. More
🛃 Data Source For Adomatic Higration:		u [[(None)			The first sector of the sector	
Auto Higration Table Name:			ACTIVE	fortan the same of the table to be used for to be		rates to be card has server say prov. More	
🗋 🕂 Hensber Deutli Detes	tor Enabled					Mare Info	

It is recommended to use database migration basis for clusters with only two nodes or if this is to be used in a production system.

The database cluster migration configuration setup is described in:

Using Clusters for Oracle WebLogic Server - DocID E13709-09

Please refer to that document on how to perform this procedure. In addition, note that since the installer sets this to consensus, this will need to be done every time the installer SIM is installed

SIM Database Authentication Provider set up (to be done after the application deploy)

Note: This procedure is only needed if you plan on using database authentication for the SIM application. This can be skipped if LDAP is going to be used for authentication.

- 1. Shut down all the servers of the WebLogic Domain created.
- 2. Once you extract the SIM installer to <INSTALL_DIR> copy the sim-security.zip present in <INSTALL_DIR>/sim/application/sim14 to the WEBLOGIC_DOMAIN_HOME/lib and extract it contents in the folder.
- **3.** Start the domain admin server.
- **4.** Log into the WebLogic console.
- 5. Navigate to: security realms -> myrealm (default realm) -> providers.

OR/4CLE Weblage Sever*	Street barbs Subsect Millions into 1	181	Repare without historical attempt
Reservante:		a/	Reference and the second
The charges and restarts	No. of Street, Physics, Spinster, Married, Marride, Marride, Married, Married, Married, Married, Marri		
landing that general internal to a function of generality.	which have been and the second		
at Allen Dage	Continues the succession		
Unite Millionate	Industry Constitution (Nation Price) 1	TRACING PARTY PROPERTY PROPERTY.	
Arresti Ministeri	Addentications - Instance - Addression -	Alphane (Ala Santa) Adam (Oxford Santa) Collision (M. Statem)	
Management Seale service Servi	printer an Apprett Atlant Miner Adjustma, and P Communication Mathe Arthodograp Providen	nen marina allantes a ante "los narinas en un la devina demandan en a marina en de al marina en o y comunicaj la 3000, foi, las alteraciónes ariade allante Alfrestador provinte fois demando en	ligent målgels kolferskanne providers och annanse vande. Jähleren i sams of skällen kolfer og en afte ander and gestage fred partiese annanse of fred Sign (1974)
	(m) (i=1,600.)		Wang in fait Press. (and
	-	tracepter	
	of the second	Franke that pathons 250 automization	6.8
the de Carlos and the second se	In Net ALPERANCE	Colorage automatication from the	64
Configure automatic and statement	20 minute training	and any thereby and the provide	- X8
Configure Salinger and the second	ten (1001) Ander		Since the Second Second
 Farrage shared are siles. Tai ins 2001 units/hgs. 			
The second submetation are sets.			
yalani taataa			
en numberen			
frame (i)			
Configurer III			
Foreite III			

- **6.** Start a Lock and Edit session.
- 7. Click New provider.
- 8. Select the provider type from the list: SimWlsDbAuthenticator.
- **9.** Set the provider name (Default: SimWlsDbAuthenticator).

18 right Landas	dit teres ing for findeenes Billion 1980	Roborn, addingt: conversion APPinese
Very chargest and invited	Registering of Marine Radio county of Marines	
Paramy sharapet scale. They wanna anti-attail to take effect.	Division in the Andreas Structure Provider	
at Annuts Owner	(04) Gener,	
Unix #Danges	Dente a seu Auffredhalten Prosilier	
Roman Housiner SPEconic	Pre Manag marries all an and to morely our per Automation Provide Provide Pro	
Colorine Colorine Statistics	Terrano of Se utilization product Terrano of Se utilization product Terrano	
El Englandia ReCognition	The a first per of addressing and an annual second se	
	URL (Greek)	
Are in the Co		
 Hamage income provides Configure forface/income and provides Assertion provides 		
Skolum Mutav		
India Carette Devery		
Fuller 25 Crime 12 Contract 12 Contract 12		
The second		

- **10.** Click **OK**.
- **11.** Open the new provider configuration.
- **12.** Under Common, set the Control Flag to SUFFICIENT.

William William	Advancementation Committee		
Dange Greine	The same page of the lateral	(H)	Websen, willings (concerned)). APPlication
these changes and contacts	State (Local), A Starty Na	an organis charite income at the process charits and the states	
citis the pack is left further to notify, and an delate memory in the daman	Services for Section Sector	itere .	
the second	towns webstack		
	OID THE AND & ANTI-THEFT	n the Damign Galiter to modify the Leiftings on this page.	
Contradio Ministeres	1944		
- Distances	Tange days an adde	n der general sankgansten of the provider.	
5 Service Insulty Reality	Canan.	and the second	
S Suprement	@ horrighter	Adhericator products 101 Statistics access	
	d) trains	34	
	C Footbolting	(surveiner (c)	
han de L	Child The land & collection of	n the Damps Carala to waith the antippe or Brownya.	
Serten Status III			
real press in the second			
Part 21 Cread (2) Creaded (2) Creaded (2) Creaded (2) Creaded (2)			
International Contractory of the Property of t	and the second		

13. Click **Provider Specific**.

14. The SIM Data Source Name defaults to SimDataSource which is what the SIM installer creates, so it should be left to the default value.

hange-Carthel	and terms (eq. bot. Performance Sectional Page)	A	Website weblage Servered in APPEnets
the like privation of the like	The damps of a 16 fairs in sec. As the house	of Security Asian anyone allocation about the Ballion and	
e pending thanges solar. (3d) the Apleans Suffgarador Surteri III alian officers to alit the	Serlings for Sandhaltsballandara		
Contraction of the	Course Franke Specific		
Reason Configuration	1		
interest three bare	The page where you is configure additional attributes for the rate	art: prote-	
Witness Etrational Detramo	C Passened Decryption Provider	and the restart and postant	
Service Protect	() Crange Barrer	(anti-antide construction)	
Departm	Construction Contractor	(A.C.)	
	Transmit Score Resident	SHAV WINNEL	
	C Percept Provide	wards online any according	
mást. A	Cab fastary:	or sector relation and an	
The halk help there:	defensk Kaler Coultyr	3000	
eter Katas II adit d'Europie ete	() Paramet Names Dipot:	(See 4.334	
Autor (1)	di farin Sanoo Rama	SeiCasSucce	
territali and territali	Jan .		

15. Check that the GroupName is set to the name of the group used for SIM secure users.16. Click OK.

17. On the provider list, click **Reorder**.

Names I and the	- and in the second sec	(A.)	Helcom, weblage, hoterstrick All the
two damps and restarts	many common of factors fragment was showed in the	success of party lagers around character committee statistics	
A The Lost District College Souther Souther South	Suttings for my reality.		
HER THEY IT THE MOUNT	toriganie the address tole address		
Terristic Concernence	Adhedicable Participation Activities	· Moline Nethers Aims Detroitions Definered Instan	
terant Machae PErson Forsenent Stationen Stationen Stationen Stationen Forsen F	An Automatic george also making forwards devides an biogent's actual officer biological biological actual Automatication Provides Dial for total & Alfordment for Deep Georgical	window of the fundame or the same.	nning with down an offen is a marky law. Bifter to be a discharged with an a strategy law of a discharged with an a strategy law of the press.
	(Incl. (Said) (News)		Wanning 2 in fail 4. Percent (1981
	C Balant ::	Benagter	
	000 entratidater	Provide that performs (248 water divident	1.0
no de L.	C Designation Street	authentituder pt s-vier for 304 landness security.	10
	C1 Dela Materiality	Indiana Adhericana Provinci	14
Configure Automotivation and Deputito Joain Macamanitia	C Refection managements	million: Sector Assessor a color	Li I
Configure the Personal Soliday provides	(mail (look) (frame)	Warming 2 to 4 of 4. Personal Trian	
Name and the state of the state			
Sat the AAN on the Reg.			
ALL DE LE DE	1		
webser-Malfree			
and of farme in our			
traini del			
0.404.00			
Downaded (0)			
vitar mg (22			

- **18.** Move the SimDbAuthenticator to the top of the list, or above the DefaultAuthenticator.
- **19.** Click **OK**.
- 20. Click Activate Changes.
- **21.** Shutdown the admin server.
- **22.** Start the admin and managed servers for the domain.

Review and/or Configure Oracle Single Sign-On

Note: This procedure is only needed if you plan on setting up the SIM application using Single Sign On (SSO) authentication. This can be skipped if SSO is not going to be configured for this environment. The Oracle Access Manager must be configured and the Oracle http server (Webtier and webgate) must be registered into the Oracle Access Manager.

Create the SIM SSO provider in the SIMDomain

- 1. Shut down all the servers of the WebLogic Domain created.
- 2. Once you copy the contents to <INSTALL_DIR> copy the sim-security.zip present in <INSTALL_DIR>/sim/application/sim14 to the WEBLOGIC_DOMAIN_HOME/lib and extract its contents in the folder.
- **3.** Start the domain admin server.
- **4.** Log into the WebLogic console
- 5. Navigate to: security realms -> myrealm (default realm) -> providers.
- 6. Start a Lock and Edit session.
- 7. Click New provider.
- 8. Select the provider type from the list: SimWlsSsoAuthenticator.
- 9. Set the provider name (Default: SimSsoAuthenticator).
- **10.** Click **OK**.
- **11.** Open the new provider configuration.
- **12.** Under Common, set the Control Flag to SUFFICIENT and then click save.
- **13.** Click **Provider Specific**.
- **14.** Check that the GroupName is set to the name of the group used for SIM secure users (sim_secure_users by default).
- **15.** All other values under the Provider Specific tab can be left as the default value.
- 16. Click SAVE.
- **17.** On the provider list, click **Reorder**.
- **18.** Move the SimWlsSsoAuthenticator to the top of the list, or above the DefaultAuthenticator.
- **19.** Click **OK**.
- 20. Click Activate Changes.
- **21.** Shutdown the domain.
- **22.** Start the admin and managed servers for the domain.

After the SSO provider is created in the SIMDomain, you will also have to set the protection of the SIM application resources correctly in the Application Domain that has been registered in the Oracle Access Manager.

In the Webtier/Webgate http server you need to set the mod_wl_ohs.conf file to redirect the http call to the where the SIM application has been deployed.

For example, in mod_wl_ohs.conf set:

```
<Location /sim-client >
WebLogicCluster orapphost:17015
SetHandler weblogic-handler
</Location>
```

Then in Oracle Access Manager, set the protection of the resources in the Application Domain that has been registered for the SIM application. You must protect the /simclient/launch resource and exclude the rest:

Resource URL: /sim-client/launch Protection Level: Protected Authentication Policy: Protected Resource Policy Authorization Policy: Protected Resource Policy

Resource URL: /sim-client/.../* Protection Level: Excluded

Resource URL: /favicon.ico Protection Level: Excluded

SIM Batch Scripts

The SIM batch programs are installed in the location that was specified during application installation.

The batch programs can be run from a different location if you cannot run them from under the application server <WEBLOGIC_DOMAIN_HOME>.. To install the batch files in a different location just copy the entire batch folder to the appropriate destination.

The batch directory is assumed to be located on the same server as the application server. If you copy the SIM batch directory to a location on a different server, then you need to configure the file path to the sim-batch.log file, which is defined in batch/resources/logback.xml.

See the "Batch Detail" section of the *Oracle Retail Store Inventory Management Operations Guide* for information about how to run batches.

Resolving Errors Encountered During Application Installation

If the application installer encounters any errors, it halts execution immediately. You can run the installer in silent mode so that you do not have to retype the settings for your environment. See Appendix D of this document for instructions on silent mode.

See "Appendix: Common Installation Errors "for a list of common installation errors.

Since the application installation is a full reinstall every time, any previous partial installs are overwritten by the successful installation.

Web Help Files

The application installer automatically copies the web help files to the proper location. They are accessible from the help links within the application.

Starting and Stopping the Wavelink Server

In order to use handheld wireless devices with SIM, the Wavelink server must be running. The SIM application installer installs, configures, and starts the Wavelink server for you, so once the SIM application install is complete, the Wavelink server is ready to be used.

Note: Even if you use the AdminServer to restart SIM, you will still need to restart the Wavelink server manually.

The Wavelink server scripts are installed into the <sim-wireless-directory>/bin.

The following is an example for stopping and starting the Wavelink server:

cd

/u00/webadmin/product/wls_retail/user_projects/domains/SIMDomain/retail/sim14/wire less/bin

./wavelink-shutdown.sh

./wavelink-startup.sh

Note: The wireless functionality in SIM is dependent on Wavelink and includes a client and server component. Wavelink software ensures that the wireless user interface of SIM can work with various handheld devices.

For the handheld to interact correctly with SIM, it is required to install the appropriate Wavelink studio client. The Wavelink studio client and its installation instructions can be found at

http://www.wavelink.com/download/downloads.aspx.

The Oracle Retail Wireless Foundation Server is bundled with the SIM server. It has a single session free license. For multiple sessions additional licenses need to be obtained.

Contact your Oracle sales representative or client partner for Wavelink Studio Client and Oracle Retail Wireless Foundation Server license information.

Note: For configurations of physical handheld devices or wireless network setup, check your hardware manufacturer's manual or Wavelink's studio client information. This information is not covered in this guide.

Test the SIM Application

Once SIM database and application are installed, foundation data is imported into SIM, you should have a working SIM application installation. To launch the application client, open a web browser and go to the client URL. You can find the URL in the next steps section of the log file that was produced by the installer.

Example:

WLS: http://orapphost:17015/sim-client/launch

<u>A</u>

Appendix: SIM Database Schema Installer Screens

You need the following details about your environment for the installer to successfully install the SIM database schema. Depending on the options you select, you may not see some screens.

Screen: Data Source Details

	-existing database user for this SIM installation. The er and create the SIM database objects.
SIM Schema Owner	USERNAME
SIM Schema Password	•••••
SIM Oracle SID	SID
Temporary tablespace name	TEMP

Field Title	SIM Schema Owner
Field Description	The pre-existing database user for this installation.
Destination	dba_create_directory.sql, dataseeding.cfg
Example	SIM14

Field Title	Sim Schema Password	
Field Description	The SIM Schema Owner's password.	

Field Title	SIM Oracle SID	
Field Description	The name of the database or pluggable db service name where the SIM scheme will be installed.	
Example	dvols64	

Field Title	Temporary tablespace name	
Field Description	Temporary tablespace provided to the create_user.sql script at the time that the SIM database user was created.	
Example	TEMP	

SIM 14 Schema	Installer - Oracle Retail	_ ×
ORACLE		
PL/SQL Batch Setup - Base Direc	tory	
Provide a top-level directory on the dat programs. The next screen will prompt this path as a default parent directory.		
PL/SQL batch data file location	/usr/oracle/retail/sim/batch	Select F
		1
😣 Cancel 😡	Back 🕢 Next 🗇 Install	

Screen: PL/SQL Batch Setup – Base Director	ſy
--	----

Field Title	PL/SQL batch data file location	
Field Description	A directory which will be the parent directory for all other PL/SQL batch processing directories.	
Destination	dba_create_directory.sql	
Example	/usr/oracle/retail/sim/batch	

Screen: PL/SQL Batch Setup (three screens)

SIM 14 Schen	na Installer - Oracle Retail	_ ×
ORACLE		
PL/SQL Batch Setup		
directories and their corresponding d	batch functionality. The following filesyst latabase directory objects must be created ries and directory objects. Instead it will in to create them.	. The
StockCount upload directory	/usr/oracle/retail/sim/batch/sto	Select F
StockCount upload unectory		Select F
😣 Cancel	🕜 Back 🕢 Next 🔷 Install	

Field Title	StockCount upload directory	
Field Description	A filesystem directory and database directory object used for processing StockCount data.	
Destination	dba_create_directory.sql	
Example	/usr/oracle/retail/sim/batch/stockcountUpload	
Notes The installer will not create these directories or directory objects. It will produce the dba_create_directory.sql script, which can be used to create them		

SIM 14 Schema I	Installer - Oracle Retail 🛛 🗛 🗙
ORACLE"	
Installation Summary	
Summary of Installation.	
SIM Schema Owner	USERNAME
Oracle SID	SID
Temporary Tablespace	TEMP
StockCount upload directory	vracle/retail/sim/batch/stockcountUpload
🔞 Cancel 🔇 🚱	Back 🕢 Next 🧠 Install

Screen: Installation Summary

Appendix: SIM Application WebLogic Server Installer Screens

You need the following details about your environment for the installer to successfully deploy the SIM application. Depending on the options you select, you may not see some screens.

Screen: Installation Type

Store Inventory Management 14 Installer - Oracle Retail	
ORA	CLE'
Installa	tion Type
	lication can be installed on two types of servers Standalone server or Cluster servers. The Ilation is Standalone server, alternatively you can choose cluster installation
Which Install	lation method will you use?
	 Standalone server
	🔿 Cluster servers
	🐼 Cancel 🐼 Back 🕢 Next 🐟 Install

Field Title	Which Installation Method will you use?
Field Description	Choosing "Standalone server" will deploy SIM to a non-clustered environment, if "Cluster Servers" is chosen then it will deploy SIM to a cluster of servers defined in WebLogic.

Screen: Cluster load-balancer Address

This screen will be displayed, if Cluster Servers option is selected in "Installation Type" screen.

Store Inventory Managem	ent 14 Installer - Oracle Retail _	×
ORACLE		
cluster load-balancer Address		
Please enter the Cluster address/load-balance	er DNS server name	
Load-Balancer/Cluster DNS Address	clusteraddress	
😣 Cancel	Back Next Nstall	

Field Title	Load-Balancer/Cluster DNS Address
Field Description	This contains Virtual Host name of the load balancer that will be used if SIM is to be deployed to a clustered environment. Please note this screen will not appear in case you select Standalone server in previous screen.

Screen: Security Details

Store Inventory Management 14 Installer - Oracle Retail _ ×
ORACLE'
Security Details
Provide security details for the SIM application
Note: enabling SSL requires that security certificates have been configured and installed for this WebLogic domain. The AdminServer and all managed servers must then be configured to use SSL.
Enable SSL for SIM?
 Yes
◯ No
Cancel S Back Next Install

Field Title	Enable SSL for SIM?
Field Description	Choosing yes will deploy SIM using SSL, and will configure SIM to use SSL. In this case, SSL must be configured and enabled for the admin server and SIM managed server or cluster. Choosing no will deploy and configure SIM without SSL.

Turn off the application	server's non-SSL port
	g to the application server must use a secured connection.
	e application server's non-SSL port will be inactive. A value of ns server's non-SSL port will still be active.
Disable non-SSL port?	() Yes
	⊖ No
1	

Screen: Turn off the application server's non-SSL port

Field Title	Disable non SSL port?
Field Description	Selecting Yes will make that the application server's non – SSL port inactive and a Selecting No will keep application server's non-SSL port active.

Screen: Application Server Details	Screen:	Applicat	tion Server	[·] Details
------------------------------------	---------	----------	-------------	----------------------

Store Inventory Management	14 Installer - Oracle Retail _ ×
ORACLE	
Application Server Details	
Note:if SSL is enabled, this value MUST match the	DNS name used in the SSL certificate.
Weblogic Server Hostname	hostname
Note: if SSL is enabled, this value MUST match SSL	Port.
Weblogic Server Port	17001
Weblogic Admin User Name	weblogic
Weblogic Admin User Password	•••••
😣 Cancel 🔇 Back	Next 🖓 Next

Field Title	WebLogic Server Hostname
Field Description	The hostname of the server where the WebLogic server is installed.
Example	dev0234
Notes	Used by installer scripts to install the application and to create default inputs for client codebase and JNDI provider URL.

Field Title	WebLogic Server Port
Field Description	Listen port for the WebLogic Admin server.
Example	7001

Field Title	WebLogic Admin User Name
Field Description	The WebLogic user which will be used to install the SIM application.
Example	weblogic
Notes	Used by installer scripts to install the application

Field Title	WebLogic Admin User Password
Field Description	The password of the WebLogic Admin User used above.
Notes	Used by installer scripts to install the application

ORACLE	
Application Deployment De	tails
Provide the following details for the SIM examples.	application being installed. The default values shown below are
Client Context Root	sim-client
	ver or a cluster of servers. You can deploy to the AdminServer ommended for production deployments.
Weblogic server/cluster	sim-server
🔞 Can	icel 🚱 Back 💽 Next 🧠 Install

Screen: Application Deployment Details

Field Title	Client Context Root
Field Description	Context root for sim client.
Example	sim-client

Field Title	WebLogic server/cluster
Field Description	This the managed server name for standalone deployment and Cluster name for deployment to clustered managed servers.
Example	sim-server

Choose Apps to Integrate v	vith SIM	
Choose which applications you would	like to integrate with SIM.	
Configure RIB for SIM?		
Configure RPM for SIM?		
Configure RMS for SIM?		
Configure Manifest for SIM?		
Configure OMS for SIM?		

Screen: Choose Apps to Integrate with SIM

Field Title	Configure RIB for SIM?
Field Description	Select this option if you will be using RIB with SIM. Please note if you select this option then RIB Integration Details screen will be enabled and appropriate details have to be entered in RIB Integration Details screen.

Field Title	Configure RPM for SIM?
Field Description	Select this option if you will be using RPM with SIM. Please note if you select this option then RPM Integration Details screen will be enabled and appropriate details have to be entered in RPM Integration Details screen.

Field Title	Configure RMS for SIM?
Field Description	Select this option if you will be using RMS with SIM. Please note if you select this option then RMS Integration Details screen will be enabled and appropriate details have to be entered in RMS Integration Details screen.

Field Title	Configure Manifest for SIM? Note : Refer to the <i>Oracle Retail Store Inventory Management Operations Guide</i> for more information.
Field Description	Manifest integration is configured if an external Shipment Management System is to be used in conjunction with SIM. (Optional). Please note if you select this option then the Manifest Integration Details screen will be enabled and appropriate details will be entered in the subsequent Manifest Integration Details screen.

Field Title	Configure OMS for SIM? Note : Refer to the <i>Oracle Retail Store Inventory Management Operations Guide</i> for more information.
Field Description	OMS integration is configured if an external Shipment Management System is to be used in conjunction with SIM. (Optional). Please note if you select this option then OMS Integration Details screen will be enabled and appropriate details will be entered in the subsequent OMS Integration Details screen.

Screen: RIB Integration Details

This screen will be displayed if the Configure RIB for SIM option is checked on the Choose Apps to Integrate with SIM screen.

Store Inventory Manager	ment 14 Installer - Oracle Retail	_ ×
ORACLE		
RIB Integration Details		
If SIM will be integrated with RIB, then provide th	ne details (Optional).	
Note: If RIB SIM uses SSL, use t3s as the protoco	ol. Otherwise use t3.	
RIB SIM Provider URL	t3s://[RIB Host]:[RIB Port]/rib-sim	
RIB User Name	ribuser	
RIB User Password	•••••	
Cancel	Back Next Next	

Field Title	RIB SIM Provider URL
Field Description	This is the provider URL of the rib-sim application. If RIB SIM uses SSL, use t3s as the protocol, otherwise use t3.
Example	t3s://dev01234.example.com:19106/rib-sim

Field Title	RIB User Name
Field Description	This is the user name for the JNDI connection to the RIB Admin Server.
Example	ribuser

Field Title	RIB user password
Field Description	Password for the RIBforSIM 14.1.3 user.

Screen: RPM Web service Policy

This screen will be displayed if the Configure RPM for SIM option is checked on the Choose Apps to Integrate with SIM screen.

Store Inventory Management	t 14 Installer - Oracle Retail	_ ×
ORACLE		
RPM WebService Policy		
Select the web service security policy for integration	with RPM	
	None	-
😡 Cancel 😡 Bac	ck Next	

Field Title	Select the web service security policy for integration with RPM.
Field Description	Select the web service security policy for integration with RPM. Please refer to the <i>Oracle Retail Store Inventory Management Security Guide</i> to learn more about Policy A and Policy B.

Screen: RPM Integration Details

This screen will be displayed if the Configure RPM for SIM option is checked on the Choose Apps to Integrate with SIM screen.

0	Store Inventory Management 14 Installer - Oracle Retail	_ ×
R	ACLE	
RPM	Integration Details	
	e Change WSDL URL	
	Cancel Sack Next Altal	

Note: If the user chooses to integrate SIM with RPM then RPM installation is a pre-requisite to installing SIM.

Field Title	RPM Price Change WSDL URL
Field Description	This is the provider URL for RPM Price change WSDL. Note : The user just needs to know the WSDL URL of RPM if it will have. SIM will install without RPM being there
Example	http://dev1234.us.oracle.com:18007/rpm-PriceChange- AppServiceDecorator/ProxyService/PriceChangeAppServiceProxy?wsdl

Field Title	RPM Price Inquiry WSDL URL
Field Description	This is the provider URL for RPM Price Inquiry WSDL.
Example	http://dev1234.us.oracle.com:18007/rpm-PriceInquiry- AppServiceDecorator/ProxyService/PriceInquiryAppServiceProxy?wsdl

Screen: RMS WebService Policy

This screen will be displayed if the Configure RMS for SIM option is checked on the Choose Apps to Integrate with SIM screen.

0	Store Inventory Management 14 Installer - Oracle Retail	- ×
OR	ACLE	
RMS	WebService Policy	
Select th	e web service security policy for integration with RMS	
	None	-
2	Cancel Cack Next Tristall	

Field Title	Select the web service security policy for Integration with RMS.
Field Description	Select the type of web service security policy for integration with RMS. Please refer to the <i>Oracle Retail Store Inventory Management Security Guide</i> to learn more about Policy A and Policy B.
Example	None, PolicyA, PolicyB.

Screen: RMS Integration Details

This screen will be displayed if the Configure RMS for SIM option is checked on the Choose Apps to Integrate with SIM screen.

O	Store Inventory Management 14 Installer - Oracle Retail	_ ×
	ACLE	
RMS	Integration Details	
RMS Sto	re Order WSDL URL	
	🐼 Cancel 🔇 Back 🕢 Next 🔷 Install	

Note: If the user chooses to integrate SIM with RMS then RMS installation is pre-requisite to install SIM.

Field Title	RMS Store Order WSDL URL
Field Description	This is the provider URL for RMS Store Order WSDL.
Example	http://dev1234.us.oracle.com:18007/rms-StoreOrder- AppServiceDecorator/ProxyService/StoreOrderAppServiceProxy?wsdl

Screen: Manifest Webservice Policy

This screen will be displayed if the Configure Manifest for SIM option is checked on the Choose Apps to Integrate with SIM screen.

0 . s	Store Inventory Management 14 Installer - Oracle Retail	_ ×
ORA	CLE.	
Manifes	t WebService Policy	
Select the we	b service security policy for Manifest integration	
	None	
7		
	😡 Cancel 🔇 Back 💽 🕢 Next	

Field Title	Select the web service security policy for Manifest Integration
Field Description	Select the type of web service security policy for Manifest Integration. Please refer to the <i>Oracle Retail Store Inventory Management Security Guide</i> to learn more about Policy A and Policy B.
Example	None, PolicyA, PolicyB

Screen: Manifest Integration Details

This screen will be displayed if the Configure Manifest for SIM option is checked on the Choose Apps to Integrate with SIM screen.

0	Store Inventory Management 14 Installer - Oracle Retail	- ×
	ACLE	
Mar	ifest Integration Details	
Manife	t WSDL URL	
	😡 Cancel 🔇 Back 🕢 Next 🖘 Install	

Field Title	Manifest WSDL URL
Field Description	This is the provider URL for Manifest WSDL. Note : Refer to the <i>Oracle Retail Store Inventory Management Operations Guide</i> for more information.
Example	http://orapphost:17015/ StoreShipmentManifestBean/StoreShipmentManifestService?WSDL

Screen: OMS Web service Policy

This screen will be displayed, if Configure OMS for SIM option is checked on the Choose Apps to Integrate with SIM screen.

0	Store Inventory Management 14 Installer - Oracle Retail	- ×
OR	ACLE	أناحل
омз	WebService Policy	
Select th	e web service security policy for integration with OMS	
	None	-
	Cancel Sack Next To Install	

Note: This screen will appear when user chooses to integrate SIM with OMS

Field Title	Select the web service security policy for integration with OMS
Field Description	Selects the type of web service security policy for integration with OMS. Please refer to the <i>Oracle Retail Store Inventory Management Security Guide</i> to learn more about Policy A and Policy B.
Destination	None, PolicyA, PolicyB

Screen: OMS Integration Details

This screen will be displayed if the Configure OMS for SIM option is checked on the Choose Apps to Integrate with SIM screen.

0	Store Inventory Management 14 Installer - Oracle Retail	_ ×
R	ACLE	
OMS	Integration Details	
OMS WS	DL URL	
	😡 Cancel 🔇 Back 🕢 Next 🖘 Iristall	

Field Title	OMS WSDL URL
Field Description	This is the provider URL for the OMS WSDL. Note : Refer to the <i>Oracle Retail Store Inventory Management Operations Guide</i> for more information.
Example	http://orribhost:18007/oms-CustomerOrder- AppServiceDecorator/ProxyService/CustomerOrderAppServiceProxy?wsdl

	ore Inventory Management 14 Installer - Oracle Retail _ >	
JDBC Security Details		
Note: Enabling S WebLogic doma	Secure JDBC requires that security certificates have been configured and installed for this vin.	
n de la Tradición de la com	DBC connection	
	() Yes	
	() No	
	Cancel S Back Next Install	

Screen: JDBC Security Details

Field Title	Enable Secure JDBC connection
Field Description	Select Yes if you have a secured database already set up, otherwise select No.

Screen: Data Source Details

Store Inventory Mana	gement 14 Installer - Oracle Retail 🛛 💷 🗙
ORACLE	
Data Source Details	
Provide details about the SIM data source used in the Database installer.	ce. Enter the same user name and password that was
See Install Guide for JDBC URL format	
SIM JDBC URL	jdbc:oracle:thin:@[DB Host]:1521/[DB SID]
SIM Database User Name	[DB User]
SIM Database User Password	•••••
😡 Cancel	Back Next Install

Field Title	SIM JDBC URL
Field Description	URL used by the SIM application to access the SIM database schema.
Destination	WebLogic admin server
Example	Standard Thin Connection: jdbc:oracle:thin:@myhost:1521/mysimsid If it is a pluggable db then use the URL as shown below: jdbc:oracle:thin:@myhost:1521/ <service name="">RAC connection: jdbc:oracle:thin:@(DESCRIPTION =(ADDRESS_LIST =(ADDRESS = (PROTOCOL = TCP)(HOST = myhost1)(PORT = 1521))(ADDRESS = (PROTOCOL = TCP)(HOST = myhost2)(PORT = 1521))(LOAD_BALANCE = yes))(CONNECT_DATA =(SERVICE_NAME = mysimsid)))</service>

Field Title	SIM Database User Name
Field Description	The schema name.
Destination	WebLogic admin server
Notes	The schema name should match the name you provided when you ran the database schema installer.

Field Title	SIM Database User Password
Field Description	The password for the SIM Schema.
Destination	WebLogic admin server

Screen: Secure Data Source Details

This screen is displayed if Secure JDBC connection is enabled.

Store Inventory Manage ORACLE [*]	ement 14 Installer - Oracle Retail	_ ×
Secure Data Source Details		
Provide the details for the SIM secure data sou	Irce	
Identity Keystore	/home/hostname.keystore	
Identity KeyStore Type	jks	
Identity KeyStore Password	•••••	
Identity truststore	/home/hostname.keystore	
Identity TrustStore Type	jks	
Identity TrustStore Password	•••••	
Cancel [🔇 Back 💽 Next 🔍 Install	

Field Title	Identity Keystore
Field	Path to the identity keystore, i.e.:
Description	/u00/webadmin/product/identity.keystore

Field Title	Identity Keystore Type
Field Description	i.e. JKS

Field Title	Identity Keystore Password
Field Description	Password used to access the identity keystore defined above.

Field Title	Identity Trustore
Field	Path to the identity truststore, i.e.:
Description	/u00/webadmin/product/identity.truststore

Field Title	Identity Truststore Type
Field Description	i.e. JKS

Field Title	Identity Truststore Password
Field Description	Password used to access the identity truststore defined above.

Store Inventory Management	: 14 Installer - Oracle Retail 🛛 💶 🗙	
ORACLE		
LDAP Server Details		
SIM requires the use of an LDAP directory for storage of its user, role, and store entries. Please provide the details for your LDAP directory.		
Note: If the Idap server is configured to use SSL, u	se Idaps as the protocol. Otherwise use Idap.	
LDAP Server URL	Idap://Idaphost:3060	
Enter the search base DN. This is a directory entry under which SIM will search for user and store entries		
LDAP Search Base DN	dc=us, dc=oracle, dc=com	
Enter the search user DN. SIM will authenticate to	the LDAP directory as this entry.	
LDAP User DN	cn = sim. admin, cn = Users, dc = us, dc = oracle, dc = c	
LDAP User Password	•••••	
Cancel Cancel Next Install		

Screen: LDAP Server Details

Field Title	LDAP server URL
Field Description	URL for your LDAP directory server.
Example	Non-secured ldap: ldap://myhost:3060/ Secured ldap: ldaps://myhost:2484/

Field Title	LDAP Search Base DN
Field Description	The directory entry under which SIM will search for user and store entries.
Example	dc=us,dc=oracle,dc=com

Field Title	LDAP User DN
Field Description	Distinguished name of the user that SIM uses to authenticate to the LDAP directory.
Example	cn=sim.admin,cn=Users,dc=us,dc=oracle,dc=com

Field Title	LDAP User Password
Field Description	Password for the search user DN.

Store Inventory Managemer	nt 14 Installer - Oracle Retail 🛛 💶 :	ĸ
ORACLE		
Mail Session Details		
SIM Mail SMTP Host	[SMTP Host]	
Enable SSL for mail session connection	() Yes	
	⊖ No	
SIM will send emails using this port.		
SIM Mail SMTP Port	25	
SIM Mail User Name	username	
SIM Mail User password	•••••	
Enable authentication for mail session connection	(i) Yes	
	⊖ No	
Note: Enabling STARTTLS requires that an appropria	te trust store must configured	
Enable STARTTLS	Yes	
	○ No	
😣 Cancel 🔇 Ba	ck Next Install	

Screen: Mail Session Details

Field Title	SIM Mail SMTP Host
Field Description	The SMTP server that will be used to send notification emails from SIM.
Example	mail.oracle.com

Field Title	Enable SSL for Mail session connection	
Field	Select Yes for secure connection.	
Description	Select No for plain connection.	

Field Title	SIM Mail SMTP Port
Field Description	Port that the mail client is configured to use.

Field Title	SIM Mail User Name
Field Description	Username used to access the mail client.

Field Title	SIM Mail User Password
Field Description	Password for the above user.

Field Title	Enable authentication for mail session connection
Field Description	Yes or no depending on mail client configuration.

Field Title	Enable STARTTLS
Field Description	Yes or No depending on mail client configuration.

Screen: Wireless Server Details

Store Inventory Mana	agement 14 Installer - Oracle Retail 🛛 🚊 🗙
ORACLE [®]	
Wireless Server Details	
Note: this must be a valid user.	
Wireless Server User Name	simwsuser
Wireless Server User Password	••••
Enter wireless port number. SIM's wireless devices on this port.	s server will listen for incoming messages from wireless
SIM Wireless Server Port	40002
Cance	e Sack Next Install

Field Title	Wireless Server User Name
Field Description	User name for wireless server
Destination	Retail config wallet and installer creates WebLogic user with the given name above.

Field Title	Wireless Server User Password
Field Description	Password for wireless server user, the password must follow WebLogic password requirements (at least 8 characters in length and one non-alphabetic character).
Destination	Retail config wallet.

Field Title	SIM Wireless Server Port
Field Description	Choose an available port that the Wavelink server will use to listen for incoming messages from wireless devices.
Destination	wireless.cfg, wavelink-startup.sh
Example	40002

ORACLE			
Batch Server Details	5		
Note: this must be a valid us	er.		
Batch User Name		retail.user	
Batch User Password		•••••	

Screen: Batch Server Details

Field Title	Batch User Name
Field Description	User name for Batch.
Destination	Retail config wallet and installer creates WebLogic user with the given name above.

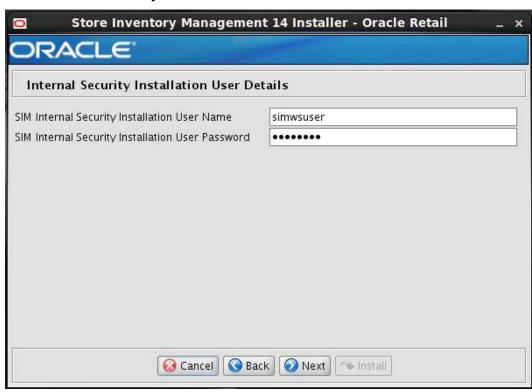
Field Title	Batch User Password
Field Description	Password for batch user, the password must follow weblogic password requirements (at least 8 characters in length and one non-alphabetic character).
Destination	Retail config wallet.

Store Inventory Manage	ement 14 Installer - Oracle Retail 🛛 🗛 🗙
ORACLE'	
Server User Details	
Note: this must be a valid user.	
SIM Server User Name	simwsuser
SIM Server User Password	•••••
Cancel	S Back Next Article

Screen: Server User Details

Field Title	SIM Server User Name
Field Description	User name for SIM Server
Destination	Domain wallet and installer creates WebLogic user with the given name above.

Field Title	SIM Server User Password
Field Description	Password for SIM Server User, the password must follow WebLogic password requirements (at least 8 characters in length and one non-alphabetic character).
Destination	Weblogic Domain wallet/ weblogic default



Screen: Internal Security Installation User Details

Field Title	SIM Internal Security Installation User Name
Field Description	User name for SIM Internal Security Installation.
Destination	SIM database user for the SIM application and WebLogic user in database provider authentication. SIM stores are tied to this user. Example: orsimadmin

Field Title	SIM Internal Security Installation User Password
Field Description	Password for SIM Internal Security Installation User, the password must follow WebLogic password requirements (at least 8 characters in length and one non-alphabetic character).
Destination	SIM database user for the SIM application and WebLogic user in database provider authentication.

Store Inventory Manageme	nt 14 Installer - Oracle Retail 🛛 💷 🗙
ORACLE [®]	
SIM WebService Provider Policy	
Select the Policy for securing SIM web service pr	oviders
	None
😡 Cancel 😡 Ba	ick Next Arstall

Screen: SIM WebService Provider Policy

Field Title	Select the policy for securing SIM web service providers	
Field Description	Select the type of web service policy for SIM. Please refer to the <i>Oracle Retail Store Inventory Management Security Guide</i> to learn more about Policy A and Policy B.	
Example	None, PolicyA, PolicyB	

Screen: Printing Details

Store Inventory Managen	nent 14 Installer - Oracle Retail	- ×
ORACLE		
Printing Details		
Are you using BI Publisher for SIM reporting?		
Configure SIM reporting for BI Publisher		
Are you using SIM ticket printing?		
Configure SIM ticket printing	None	
	🔘 BI Publisher	
	O External WebService	
Cancel 🤇	Back Next	

Field Title	Configure SIM reporting for BI publisher	
Field Description	Select this option if you will be using BI Publisher for SIM reporting. Please note if you select this option then the "Report BIP Details" screen will be enabled and appropriate details will have to be entered in the subsequent "Report BIP Details" Details screen.	

Field Title	Configure SIM ticket Printing	
Field Description	Choose the ticket printing option.	

Field Title	Configure SIM ticket Printing "None"	
Field Description	Select this option if you will not be using ticket printing feature.	

Field Title	Configure SIM ticket Printing "BI Publisher"	
Field Description	elect this option if you will be using an out of box BI Publisher ticketing mplementation.	
	Please note if you select this option then the "Ticket Printing BIP Details" screen will be enabled and appropriate details will have to be entered in the subsequent "Ticket Printing BIP Details" Details screen.	

Field Title	Configure SIM ticket Printing "External Web Service"	
Field	Select this option if you will provide web service provider. See <i>sim-141-impl4</i> "Item Ticket Printing" Section in SIM Implementation Guide for details.	
Description	Please note if you select this option then the "External Ticket Printing Service Details" screen will be enabled and appropriate details will have to be entered in the subsequent "External Ticket Printing Service Details" screen.	

Screen: Reporting BIP Details 1

This screen will be displayed if you select the Configure SIM reporting for BI Publisher option on the Printing Details screen.

Store Inventory Management 14 Installer - Oracle Retail _ x		
ORACLE		
Reporting BIP Details 1		
Configure SIM reporting for BI Publisher		
BI Publisher Host	hostname	
Bl Publisher Port	7003	
BI Publisher Context Root	xmlpserver	
Note: enabling SSL requires that security certificate	es have been configured.	
Enable SSL for reporting	O http	
	 https 	
Cancel Cancel Next Mext		

Field Title	BI Publisher Host	
Field Description	Host name where BI Publisher is installed.	
Destination	Updates the BI Publisher related default values in SIM database.	
Example	redevlv0074.us.example.com	

Field Title	31 Publisher Port	
Field Description	Port where BI Publisher is configured.	
Destination	Updates the BI Publisher related default values in SIM database.	
Example	7003	

Field Title	I Publisher Context Root	
Field Description	Context root where BI Publisher is installed.	
Destination	Updates the BI Publisher related default values in SIM database.	
Example	xmlpserver	

Field Title	Enable SSL for reporting	
Field Description	The Protocol to be used for configuring reporting.	
Example	https	

Screen: Reporting BIP Details 2

This screen will be displayed if you select the Configure SIM reporting for BI Publisher option on the Printing Details screen.

Store Inventory Mana ORACLE	gement 14 Installer - Oracle Retail _ ×
Reporting BIP Details 2	
Note: All reports are being configured u: Implementation Guide for more details	sing the template base path. Please refer to the
Note: If BI Publisher uses SSL, use https :	as the protocol. Otherwise use http.
Reporting URL	https://hostname:portno/xmlpserver
This path resides inside of BI Publisher t	o hold report templates
Report Template Base Path	/Base/SIM/14
Reporting User Name	retail.user
Reporting User Password	•••••
Reporting user rassword	
S Cancel	Sack Next The Install

Field Title	eporting URL	
Field Description	Confirmation field of address configured from values provided on previous creen.	
Destination	Updates the reporting tool related default values in SIM database.	
Example	ample http://dev01234.us.oracle.com:18005/xmlpserver/	

Field Title	Report Template Base Path	
Field Description	The root directory in which your SIM report templates are located.	
Example	/Base/SIM /u00/webadmin/product/12.2.1.4/WLS/user_projects/domains/bifoundat ion_domain/config/bipublisher/repository/Reports/Guest/SIM	

Field Title	Reporting Username	
Field Description	From the Oracle Retail Store Inventory Management Implementation Guide: <bip_reports_user> or <sso_user></sso_user></bip_reports_user>	
Destination	This user MUST exist as a bipublisher user.	
Example	retail.user	

Field Title	Reporting user Password	
Field Description	From the Oracle Retail Store Inventory Management Implementation Guide: <bip_reports_user_password> or <sso_password></sso_password></bip_reports_user_password>	
Destination	Updates security wallet info	

Screen: Ticket Printing BIP Details 1

This screen will be displayed if you select 'BI Publisher' under the Configure SIM ticket printing option on the Printing Details screen.

Store Inventory Management 14 Installer - Oracle Retail _ ×		
ORACLE		
Ticket Printing BIP Details 1		
Configure SIM ticket printing for BI Publ	isher	
Bl Publisher Host	hostname	
Bl Publisher Port	portno	
BI Publisher Context Root	xmlpserver	
Note: enabling SSL requires that securit	y certificates have been configured.	
Enable SSL for ticket printing	O http	
	https	
😡 Cancel	Back Next Install	
Cartes		

Field Title	BI Publisher Host
Field Description	Host name where BI Publisher is installed.
Destination	Updates the BI Publisher related default values in SIM database.
Example	redevlv0074.us.example.com

Field Title	BI Publisher Port
Field Description	Port where BI Publisher is configured.
Destination	Updates the BI Publisher related default values in SIM database.
Example	7003

Field Title	I Publisher Context Root	
Field Description	Context root where BI Publisher is installed.	
Destination	Updates the BI Publisher related default values in SIM database.	
Example	xmlpserver	

Field Title	Enable SSL for ticket printing	
Field Description	The Protocol to be used for ticket printing.	
Example	https	

Screen: Ticket Printing BIP Details 2

This screen will be displayed if you select 'BI Publisher' under the Configure SIM ticket printing option on the Printing Details screen.

Store Inventory Manage	ement 14 Installer - Oracle Retail	_ ×
ORACLE [:]		
Ticket Printing BIP Details 2		
Note: All reports are being configured usir Implementation Guide for more details	ng the template base path. Please refer to the	
Note: If BI Publisher uses SSL, use https as	the protocol. Otherwise use http.	
Ticket Printing URL	https://hostname:portno/xmlpserver	
This path resides inside of BI Publisher to	hold report templates	
Ticket Template Base Path	/Base/SIM/14	
Ticket Printing User Name	retail.user	ļ.
Ticket Printing User Password	•••••	
Sancel (🔇 Back 🚫 Next 🗇 Install	

Field Title	Ticket Printing URL	
Field Description	Confirmation field of address configured from values provided on previous screen.	
Destination	Updates the ticket printing BIP related default values in SIM database.	
Example	http://dev01234.us.oracle.com:18006/xmlpserver	

Field Title	Ticket Template Base Path	
Field Description	The root directory in which your SIM ticket templates are located. Note: See Appendix: Setting up SIM Reports/Tickets in BI Publisher for instructions for migrating SIM reports/tickets to BI Publisher	
Example	<pre>/Base/SIM An example from this install guide is: /u00/webadmin/product/12.2.1.4/WLS/user_projects/domains/bifoundat ion_domain/config/bipublisher/repository/Reports/Guest/SIM</pre>	

Field Title	Ficket Printing Username	
Field Description	From the Oracle Retail Store Inventory Management Implementation Guide: <bip_ticketprinting_user> or <sso_user></sso_user></bip_ticketprinting_user>	
Destination	This user MUST exist as a bipublisher user.	
Example	retail.user	

Field Title	Ticket Printing user Password	
Field Description	From the Oracle Retail Store Inventory Management Implementation Guide: <bip_ticketprinting_user_password> or <sso_password></sso_password></bip_ticketprinting_user_password>	
Destination	Updates security wallet info	

Screen: External Ticket Printing WebService Policy

This screen will be displayed if you select the External WebService option on the Printing Details screen.

Store Inventory Management 14 Installer - Oracle Retail _ x	
ORACLE	Contraction of the second second
External Ticket Printing WebService P	olicy
Select the web service security policy for external	ticket printing
	None
Cancel 🔇 Bac	K Next Stall

Field Title	Select the web service security policy for external ticket printing Note : The user should refer the <i>Oracle Retail Store Inventory Management Operations</i> <i>Guide</i> to know what OMS to choose.
Field Description	Selects the type of web service security policy for external ticket printing. Please refer to the <i>Oracle Retail Store Inventory Management Security Guide</i> to learn more about Policy A and Policy B.
Destination	None, PolicyA, PolicyB Note : If web services are to be secured using either Policy A or Policy B, then user should have some basic knowledge about the same. A user can refer to security guide to know more about Policy A and Policy B

Screen: External Ticket Printing Service Details

This screen will be displayed if you select the External Webservice option on the Printing Details screen.

Store Inventory Management 14 Installer - Oracle Retail _ x		
ORACLE	The second se	
External Ticket Printing service details		
External Ticket Printing WSDL URL	http://hostname:18007/ticket-printing-/	
😣 Cancel 🔇 Back	Next Istall	

Field Title	External Ticket Printing WSDL URL	
Field Description	This is the External Ticket Printing WSDL URL.	
Example	http://hostname:18007/ticket-printing- AppServiceDecorator/ProxyService/ticketprintingAppServiceProxy?wsdl	

Screen: Enable SSO in SIM

Store Inventory Management 14 Installer - Oracle Retail _ x
ORACLE [:]
Enable SSO in SIM
Oracle Single Sign-On must be installed separately. You should only check the box below if you have already set up and configured Oracle SSO.
Use Oracle Single Sign-On for user identification and authentication?
Enable Single Sign-On in SIM?
🔕 Cancel 🔇 Back 🕢 Next 🐟 Install

Field Title	Use Single Sign-On for user identification and authentication?
Field Description	This version of SIM has the option to use Single Sign-On (SSO) technology to authenticate users. If SSO is being used in your environment then click the check box. Leaving the box unchecked will configure SIM to use its own LDAP directory settings for authentication.

Store Inventory	Management 14 Installer - Oracle Retail 🛛 🗛 🗸
ORACLE'	
Single Sign On Details	
Please enter the Oracle Single Sign	n-On web tier server details.
SSO Server Host	[SSO Host]
SSO Server Port	[SSO Port]
0	ancel 🔇 Back 🕢 Next 🗇 Install

Screen: Single Sign-On Details

Field Title	SSO Webtier Server Host
Field Description	This is the host used to access the Single Sign-On web tier. This screen will be displayed if you select the Enable Single Sign-On checkbox in the previous screen.
Example	WEBTIERSERVER.us.com

Field Title	SSO Server Port
Field Description	This is the HTTP port used to access the Single Sign-On web tier.
Example	18888

Screen: Manual Deployment Option

Store Inventory Mail	nagement 14 Installer - Oracle Retail 🛛 💷 🗙
ORACLE [®]	
Manual Deployment Option	
application into the server. If you do not deploy using a different method, you can	on and app server files. Then it can proceed with installing the have filesystem access to the application server, or you wish to n choose to have the installer skip the final installation phase. Ie for your use after this installer has completed.
Install files to app server?	 Yes. I have write access to the application server. No. Configure but do not install the application.
Cancel Cancel Next Tristall	

Field Title	Install files to app server?
Field Description	The installer will configure the application and application server files. Then, it can proceed with installing the application into the server. If a user does not have filesystem access to application server, or wishes to deploy using a different method, he can choose to have the installer skip the final installation phase.
Example	Select Yes, I have write access to the application server.

DRACLE'		
Installation Summary		
Summary of Installation		
Enable SSL for SIM	true	(上)
Weblogic Server Hostname	hostname	
Weblogic Admin Port	portno	
Weblogic Admin User Name	weblogic	
Client Context Root	sim-client	
Weblogic server/cluster	sim-server	
Configure RIB for SIM	true	
Configure RPM for SIM	true	
Configure RSL for SIM	true	
<u>.</u>	#	•

Screen: Installation Summary

Field Title	Summary of Installation
Field Description	Lists the values entered in the previous install screens.
Example	Verify each value and if they are correct click next, else use back button to go back and change the value. Selecting Cancel will Cancel the installation.

Appendix: Common Installation Errors

This section provides some common errors encountered during installation.

EJB Deployment Errors during Installation to WebLogic

Symptom

On servers that are encountering high memory usage, deployment of sim-server.ear will occasionally fail due to WebLogic's inability to start the EJB polling timer service.

```
[java] ....Failed to deploy the application with status failed
[java] Current Status of your Deployment:
[java] Deployment command type: deploy
[java] Deployment State : failed
[java] Deployment Message : weblogic.application.ModuleException:
Exception activating module: EJEModule(
sim-ejb3.jar)
[java]
[java]
[java]
[java] weblogic.management.scripting.ScriptException: Error occured while
performing deploy : Deployment Fail
ed.
[java] Unable to deploy EJB: PollingCoordinatorThreadBean from sim-ejb3.jar:
[java]
[java] Error starting Timer service
```

Solution

Delete the WebLogic managed server/cluster where sim was targeted in the Admin Console, and activate the changes. Manually delete the managed server directory <DOMAIN HOME>/servers/<SIM SERVER NAME>. Bounce the WebLogic admin server. Re-create the managed server in the Admin Console, Finally, re-run the installer. If the error persists after re-installation, consider reducing the cpu, disk, and memory load on the server.

Database Installer Hangs on Startup

Symptom

When the database schema installer is run, the following is written to the console and the installer hangs indefinitely:

Running pre-install checks Running thsping to get listener port

Solution

The installer startup script is waiting for control to return from the **tnsping** command, but tnsping is hanging. Type Control+C to cancel the installer, and investigate and solve the problem that is causing the **tnsping** <**sid**> command to hang. This can be caused by duplicate database listeners running.

Warning: Could not create system preferences directory

Symptom

The following text appears in the installer Errors tab:

```
May 22, 2006 11:16:39 AM java.util.prefs.FileSystemPreferences$3 run
WARNING: Could not create system preferences directory. System preferences are
unusable.
May 22, 2006 11:17:09 AM java.util.prefs.FileSystemPreferences
checkLockFileOErrorCode
WARNING: Could not lock System prefs. Unix error code -264946424.
```

Solution

This is related to Java bug 4838770. The /etc/.java/.systemPrefs directory may not have been created on your system. See http://bugs.sun.com for details.

This is an issue with your installation of Java and does not affect the Oracle Retail product installation.

Warning: Couldn't find X Input Context

Symptom

The following text appears in the console window during execution of the installer in GUI mode:

Couldn't find X Input Context

Solution

This message is harmless and can be ignored.

ConcurrentModificationException in Installer GUI

Symptom

Solution

You can ignore this error. It is related to third-party Java Swing code for rendering of the installer GUI and does not affect the retail product installation.

A Second Login Screen Appears After Single Sign-On Login

If you are using Single Sign-On, you should not need to enter a SIM user name and password once SIM is launched. If the SIM login screen pops up, it means something went wrong with the SSO login. This could be caused by any of the following problems:

- There is no SIM user in LDAP for the SSO user name you are using.
- Permissions are not set up correctly for the SSO user in SIM.
- SSO is configured incorrectly on the server.
- SSO timed out. (This can happen especially the first time you launch SIM. Try launching SIM again.)

Symptom

A second login screen appears after you have already logged in to Single Sign-On.

Solution

See the *Oracle Retail Store Inventory Management Implementation Guide* for more information on setting up SIM users and using LDAP and SSO with SIM.

Error Connecting to Database URL

Symptom

After entering database credentials in the installer screens and hitting next, a message pops up with an error like this:

Error connecting to database URL <url> as user <user> details...

The message prevents you from moving on to the next screen to continue the installation.

Solution

This error occurs when the installer fails to validate the user credentials you have entered on the screen. Make sure that you have entered the credentials properly. If you receive a message similar to this:

Error connecting to database URL <url> as user <user> java.lang.Exception: UnsatisfiedLinkError encountered when using the Oracle driver. Please check that the library path is set up properly or switch to the JDBC thin client.

It may mean that the installer is using the incorrect library path variables for the platform you are installing on. Open the file

<STAGING_DIR>/rms/dbschema/common/preinstall.sh and toggle the variable, use32bit, to True if it is set to False or vice versa. This setting is dependent on the JRE that is being used.

GUI screens fail to open when running Installer

Symptom

When running the installer in GUI mode, the screens fail to open and the installer ends, returning to the console without an error message. The ant.install.log file contains this error:

```
Fatal exception: Width (0) and height (0) cannot be <= 0 java.lang.IllegalArgumentException: Width (0) and height (0) cannot be <= 0 \,
```

Solution

This error is encountered when Antinstaller is used in GUI mode with certain X Servers. To work around this issue, copy ant.install.properties.sample to ant.install.properties and rerun the installer.

Log in fails with invalid username/password or user unauthorized errors

Symptom

The SIM application log in fails with the following messages: "Invalid username/password" or "User unauthorized or Not authenticated."

Solution

In SIM Database, in the CONFIG_SYSTEM table, the value for SECURITY_AUTHENTICATION_METHOD should be set to 1 for LDAP authentication.

Check in LDAP to be sure the password is set to the correct value.

D

Appendix: Setting up SIM Reports/Tickets in BI Publisher

Oracle Analytics Server Configuration for SIM Reports

SIM 14.1.3.2NT reports supports OAS5.5. SIM Reports are copied to RETAIL_HOME /reports during the application installation.

Note: In the following sections, the Oracle Analytics installation steps are a sample only. Refer to the *Oracle Analytics Server 5.5.0 Installation Guide* for more information.

OAS Server Component Installation Tasks

Oracle Analytics Publisher is used as the main RMS, RWMS, REIM, Brazil Localization RFM, and SIM reporting engine and can be used in conjunction with external printing solutions like label printing. This section describes the installation of Oracle AS Publisher as a server application within WebLogic 12.2.1.4. One deployment of OAS Publisher can be used for any of the RMS, Brazil Localization ORFM, RWMS, REIM, and SIM reports.

When installing OAS5.5, refer to the appropriate Fusion Middleware guides for the installation of the product in a WebLogic server environment.

Installation Process Overview

Installing the OAS Publisher server as a standalone web application in a WebLogic server involves the following tasks:

- 1. Install Oracle Analytics Server under an existing WebLogic Server (WLS) 12.2.1.4 infrastructure home.
- **2.** Configure Oracle Analytics Server, create default OAS Domain and configure component "OAS Publisher" only.
- 3. Select the OAS Platform schema for update of the ORACLE 19c DB.
- 4. Configure ports and document and test the URL's that are created.

The following post-installation tasks are involved once OAS Publisher has been installed:

- **5.** Configure the OAS Publisher repository. Set security model, add users, assign roles, add reports, add printers, set repository path, set data source, etc.
- 6. Set up and copy the RMS OAS Publisher Report Templates produced for RMS.
- **7.** Set up for the RMS application specific configuration files to integrate OAS Publisher with the RMS online app.

Install Oracle Analytics Server 5.5

- Install JDK 1.8 as per product certification For Example, /u01/product/fmw/wls_oas
- Export your DISPLAY.
 Example: export DISPLAY=10.141.10.110:0.0
- Install Oracle Fusion Middleware Infrastructure in OAS Product Home (fmw_12.2.1.4.0_infrastructure_generic.jar) JDK_HOME/bin/java -jar fmw_12.2.1.4.0_infrastructure.jar
- **4.** Install Oracle Analytics Server 5.5

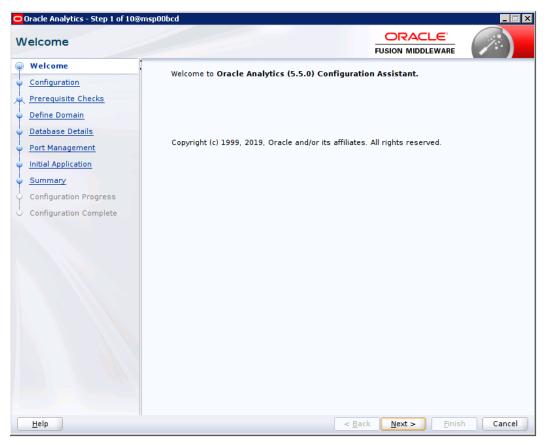
JDK_HOME/bin/java -jar Oracle_Analytics_Server_5.5.0.jar

For more details, refer *Installing and Configuring Oracle Analytics Server 5.5.0* F27232-04 *Guide*

- 5. Launch Oracle Analytics configuration Assistant by executing
 - Go to \$OAS HOME/bi/bin

Example: /u01/product/fmw/wls_oas/bi/bin Start configuring domain: ./config.sh

6. Click Next.



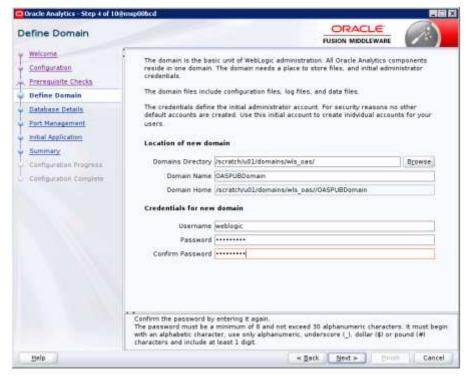
7. Select Oracle Analytics Publisher



8. Click Next.

rerequisite Checks				(2)
Welcome .	_			
Configuration		100%		
Prerequisite Checks		Checking operating system certification		
Define Domain	-	Checking operating system certification Checking recommended operating system par	-lines-	
Database Details		Checking recommended operating system par Checking kernel parameters	ckages	
Port Management	-	Checking Recommended glibc version		
Initial Application		Checking physical memory		
Summary		Checking Java version used to launch the inst	allas	
Configuration Programs		Checking Java Version used to launch the mat	aber	
Cooliguration Complete				
		Serue Sur	ccessful Tøsks	View Log
		I UCHI LEBI	research Toolea	Alem Tod
	⊞ ∉ct	ecking kernel parameters ecking Recommended glibc version ecking physical memory		

9. Provide Domain Directory and Name. Create Admin Username and Password



10. Select Create New schemas. Enter your Oracle Database information. Simple connect string like <DBHOST>:1521:<PDB>

atabase Schema				
Welcoms Configuration Procequisitie Checks Define Domain Database Details Port Management Initial Application Sammery Configuration Progress Configuration Complete	Database schemes are required for schemes are distinct from any data the simplest option is to create m existing schemas you created earl advance gives you addonail option directory /scratch/uSL/product/mw e Create new schemas Scheme prefix Scheme password Confirm scheme password Database type Username Password Simple connect string Use existing schemas	te sources which you pl ex database schemer i lier using the Reposition while_oas/oracle_comm OASPUB Oracle Database by9 	en to analyse in Oracle are. Alternatively you Creation utility IRCU. Isopaces. RCU is avail on/bin	Analytics. can use Using RCU in
	Enter the cannect string in the form for non-RAC databases. Use the se accessed using an Gracle Single Ch	parate Oracle RAC optio	n for all RAC database	
Help	1	- Back	Next > Doi:	Cancel

11. Choose Port Range



12. Select Clean Slate



13. Click on Configure



14. Click Next

Weiliume Configuration Prevenuiste Checke Behne Domen Batalises Details Port Henagement mittel Application	Configuration Tools Name Cracle_Analytics_Configuration Create expanded domain Create schemas using RCU Oracle Analytics Publisher	Progress 11% Success In Progress
Prerequisite Charlis Behne Domen Batabase Details Port Hehagement	Oracle_Analytics_Configuration Oracle_Analytics_Configuration Oracle Analytics Publisher	11% ✓ Success In Progress
Exfine Comen Batabase Details Port Hanagement	Create expanded domain Greate schemas using RCU Oracle Analytics Publisher	Success In Progress
Database Details Port Hahagement	 Create schemas using RCU Oracle Analytics Publisher 	In Programs
Port Hanagement	- Oracle Analytics Publisher	
Port Hanagement		
		Not started
mitial Application.	- Complete domain	Not started
	- Store port range	Not started
Summery	 Sync mid tier database 	Not started
Configuration Progress	Add default service instance	Not started
Configuration Complete	 Store JMS credential 	Not started
and a state of the state	Cleaning up issues	Not started
	Oracle_Analytics_Startup Oracle_Analytics_Epilogue	0%
	Configuration Log Location: /scratch/u01/product/	fnw/wls_oas/install2020-09-25_09-40-24AM log



15. Click Finish



Post install steps for OAS5.5

Note: OAS 5.5 has issue printing reports with Guest user access which is needed to print reports directly from RMS application. To overcome this issue, user has to login to OAS with the configured user in the browser before printing reports directly from RMS application, otherwise the user would not be able to print reports directly from RMS application.

 Test your OAS Publisher installation, Get the xmlpserver url from your Installation Screen and launch xmlpserver. Login with the credentials you entered in your Oracle AS configuration (weblogic / password). Example URL:http://[OAS_host]:[OAS server_port]/xmlpserver

Sign In Please enter username and password
Username
weblogi;
Password

Accessibility Mode
Sign In
Guest
English (United States)

2. After sign on, select "Administration".

ORACLE Analytics	Seath	AI		19	Administration	1100 T	19g+ 04
Administration		Hane	Catalog	New . +	Opin +	Signed in As	weblogic
Data Sources 2002 Connection Fee CDAP Connection Wall Service Connection With Connection With Connection Distance Service		System Matriterance Server Configuration Rameted: Canfiguration Scheduer Disponsion Report Vesser Canfiguration Manage Casto Manage Jain Fragmanism Lag					
Security Center Security Center Name ord Permanane Digital Bigmuture		Runtime Configuration Properties Fort Mappings Carrency Formats					
Delivery Delivery Configuration Proto Trais Ernall WellCAW YOTTP TTTP TTTP TTTP Configuration Configuration Configuration Configuration Configuration Configuration Configuration		inlegration Cracle & Presentation Serv					

3. On the System Maintenance Section, click Server Configuration.

ORACLE Analytics	Search All			8	Administration	140.1	Sign Cut
Administration		ноте	Catalog	New *	Open =	Signed In An	methogic
almontration > Server Configuration							
System Maintenance							
Server Configuration Scheduler Configuration Scheduler Conprodice Rep		Manage Jos	Bagwares Lop				
CTIP Any changes will only take effect after the application is restarted						la	aly Cane
Cetalog							59V. 10231
The Galatog contains all containt such as reports and data models.							
Cellariog Type: Gradic DL Publisher - Mix System							
Path /www.chuludoreami/wk.jwe/UKSPLbDomitrybidata/co	mponents/htp-alik/her/mpository						

- **4.** On this screen In the Server Configuration Folder section, enter the path to your repository. On the Catalog section enter Catalog Type: Oracle AS Publisher File System from the drop down menu.
 - This is the path you entered in the Configuration Section and Catalog Section:
 Example: \$<OAs_DOMAIN_HOME>/config/bipublisher/repository
- 5. Click Apply.
- **6.** Click Administration link at top of screen.

7. Click on the Security Configuration link under the Security Center to setup a super user and apply the BI Publisher security model.

ORACLE Analytics		South All				Q. Administ	ration	1901.11	:39	p Out	
Administration			Three.	Catalog	tion	+ Oper		Signed In As	web	blogic	-
Administration > Security Configuration											9
Security Center											
Security Configuration Rose and Permations Digital Squares											
OTH Any changes will only take effect after the application is restarted	a.							40		Cabra	į.
Local Superuser								100	an i		
Local supervisor care log in to the lenters independent from the selection Distance Liked Supervisor	of security readel.										
Superator rame	Hebell user										
Patnered											
Quest Access											
Aless Quest Access											
Gunst Poldor Manu	Guett										
Authentication											

- **8.** Enable a Superuser by checking the "Enable Local Superuser" box and by entering name and password on the corresponding fields on this screen.
- 9. Mark "Allow Guest Access" check box. Enter "Guest" as Guest Folder Name.
- **10.** Click **Apply**.
- 11. Scroll down the screen and locate the Authorization section:

ORACLE Analytics		Search: All				3	Administration	Hulpi =	Sign Out	
Administration			Norm	Catalog	Time	•	Open +	Signed In Aa	weblogic	
How to get user toose Over Lincole Personnet	YICTIT Imagina									
Erder för valla för 186, Administrator Harranis, Adriehlinder Passon Titler (2047	orð, Distinguisbod fae	nie for Linans and Littler regain	nel attenuation belle	0						
UM1,										
Administrator Sourname	Crysle Hardware									
Administrator Peneword										
Distinguished Name for Users										
JHDI Contest Factory Class	Total tax, but of a									
Attribute used for Login Unersame	(Mad the of)									
Altribute and far user meloting with authorization system	(support of the last t									
Authorization										
Security Hodel - Linute Pu	asian Mattheware 🔹									
Punior Agen Security										

- **12.** Select Oracle Fusion Middleware from the Security Model list.
- 13. Click Apply.
 - Leave OAS Publisher up while completing the next section.

Installing the SIM OAS Publisher Templates

In this section we will outline how the RMS report templates are installed into the appropriate OAS server repositories.

Example: <OAS_DOMAIN_HOME>/config/bipublisher/repository

Report files are placed by the application installation in the directory - "RETAIL_HOME /reports" and have to be copied into a newly created directory within OAS Publisher repository Guest Reports directory.

- Create the directory to hold the reports under <AS_REPOSITORY> mkdir <BI REPOSITORY>/Reports/Guest/SIM
- **2.** Change directory to the RETAIL_HOME /reports/SIM created during the application install. This directory contains subdirectories whose names reflect the names of report templates provided with SIM.
- 3. unzip each report directory into the directory created above

```
For example,
```

```
cd <BI_REPOSITORY>/Reports/Guest/RMS
unzip <INSTALL_DIR>/sim/application/sim14/reports/sim-reports.zip
```

Configuring the RMS JDBC connection

Follow the below steps to configure a JDBC connection for the SIM Data Source, which is required for SIM reports.

- 1. If not still logged into OASPublisher:
 - Login with the credentials you entered in your Oracle AS configuration. (weblogic / password)
- **2.** If the server was restarted:
 - Login as the super user that was created in prior security setup steps.
- 3. Click the Administration link at top of screen
- 4. Select the JDBC Connection hyperlink in the Data Sources lists.
- 5. Click the Add Data Source button.

		Seath All				2	Administr		ND *		10.1	
Administration			Home	Cathlog	New	•	(Quem	*	Spetin	5 WE	84ogic	*
Administration > 308C > Add Date Source											-	0
Add Data Source												
									- 5	lasty	Cancel	i.
General												
OTH Please make sure to statial the required 208C other classes.												
TIP With Cracke Fusion Infradeware Security Moder, select the Use	System User checkbox to use	the BL Bystein Liker I	or your BI Server 2	lalabase Cornech	10							
* Data Source Have	AN INCOME.											
* Driver Type	Oracle Like											
* Driver Type * Dendance Driver Claim	eracia (disc.Drock/Driver	•										
* Driver Type * Dendance Driver Claim												
* Driver Type * Deteinee Driver Claim	mana jike DrackDriver											
* Ditter Type * Detailase Divier Class * Consection String	mana jike DrackDriver											
* Driver Type * Deteinee Driver Claim	mana jike DrackDriver											
* Driver Type * Detailane Briver Claim * Gunnection Brive Unix Syntem Unix	mana jike DrackDriver											
* Driver Type * Detailane Briver Claim * Gannection Sching Unie System Unier * Unierzame	mana jike DrackDriver											

- **6.** Enter the appropriate details for the SIM data source. Click Test Connection to test the connection on the screen once the data is entered.
 - Data Source Name: BIP-SIM-DATASOURCE
 - Must be this due to code dependencies.
 - Driver type is ORACLE 12c
 - Database driver class should be oracle.jdbc.OracleDriver.
 - Connection string is similar to this example:
 - Pluggable: jdbc:oracle:thin:@dbhostname:1521/servicename
 - Non- Pluggable jdbc:oracle:thin:@dbhostname:1521:SID

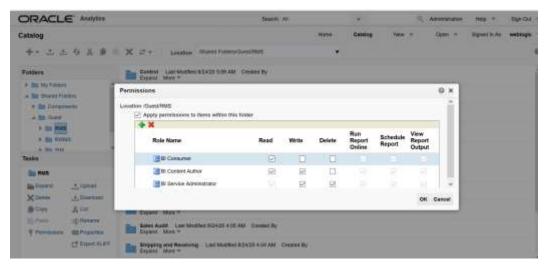
- Enter the username and password for the RMS application user's data source. Click Test Connection to test the connection on the screen once the data is entered.
- **7.** Scroll to the bottom of the screen and check the Allow Guest Access check box. Click **Apply**.

ORACLE Analytics		Search All				9	Administra	tion	16p =	Sign Dut	-	
Administration			Horse	Colohyp	THOM	•	Operr	*	Signed In Ac	weblogic	٠	
219 To estable animus to a backup claim miurca, please choose the U	ize Backup Data Source choose	ox and other the received	y connediun	orformalians							1	1
Live Bastap Datis Source Connective Skivey	0											
Unormanee												
Pestword												
	Test Connection											
Security												
Alityk Guert Access Alitykalitier Automoti		Alternati Polesi									1	
III Delational Re Data Mon D'e Carriera D'y Carriera	N Author Prive	ing and incoments		-								
	Here A			*								

8. Click Catalog link at the top of the screen – and then click the Guest folder on the left so that it is highlighted.

ORACLE Asalytica	Search All		(#1)	9	Aministration	Help 17	Byn Oa	-
Catalog		Hare	Catalog	New =	Open +	Signed in he	wettinget	
+ + + = =	X 2 + Landton Shared Followschuret	•						0
Folders	FMS Last Modified BONGO 4:07 Abi Created By Cryated Mars #							
Bar My Folders Bar Shared Publics	RWMS Law ModRed \$14/20-10:01 AM Greater By Expend Man #							
+ Bo Components + Bo Ruent + Bo Fibri	SIM Last Modified 7/01/20 6/03 AM Groated By retail cont Expand: More *							
+ Bas rowtant								
Tasks								
in Gant								
Copentpanal Copentar Copentar Copentar Copentar Copentar Copentar Copentar Copentar								

9. Click the Permissions link on the lower left of the screen.



10. Click OK.

Restart WebLogic Server. Verify Oracle AS Publisher Set Up for RMS Reports

Verify that Oracle AS Publisher has been set up correctly as follows:

1. Click the Administration tab. Click Server Configuration under System Maintenance. The Catalog path variable should be set as part of the OAS Publisher install, REPORTS_DIR.

Appendix: Single Sign-On for WebLogic

Single Sign-On (SSO) is a term for the ability to sign onto multiple Web applications via a single user ID/Password. There are many implementations of SSO. Oracle provides an implementation with Oracle Access Manager.

Most, if not all, SSO technologies use a session cookie to hold encrypted data passed to each application. The SSO infrastructure has the responsibility to validate these cookies and, possibly, update this information. The user is directed to log on only if the cookie is not present or has become invalid. These session cookies are restricted to a single browser session and are never written to a file.

Another facet of SSO is how these technologies redirect a user's Web browser to various servlets. The SSO implementation determines when and where these redirects occur and what the final screen shown to the user is.

Most SSO implementations are performed in an application's infrastructure and not in the application logic itself. Applications that leverage infrastructure managed authentication (such as deployment specifying Basic or Form authentication) typically have little or no code changes when adapted to work in an SSO environment.

What Do I Need for Single Sign-On?

A Single Sign-On system involves the integration of several components, including Oracle Identity Management and Oracle Access Management. This includes the following components:

- An Oracle Internet Directory (OID) LDAP server, used to store user, role, security, and other information. OID uses an Oracle database as the back-end storage of this information.
- An Oracle Access Manager (OAM) 11g Release 2 server and administrative console for implementing and configuring policies for single sign-on.
- A Policy Enforcement Agent such as Oracle Access Manager 11g Agent (WebGate), used to authenticate the user and create the Single Sign-On cookies.
- Oracle Directory Services Manager (ODSM) application in OIM11g, used to administer users and group information. This information may also be loaded or modified via standard LDAP Data Interchange Format (LDIF) scripts.
- Additional administrative scripts for configuring the OAM system and registering HTTP servers.

Additional WebLogic managed servers will be needed to deploy the business applications leveraging the Single Sign-On technology.

Can Oracle Access Manager Work with Other SSO Implementations?

Yes, Oracle Access Manager has the ability to interoperate with many other SSO implementations, but some restrictions exist.

Oracle Single Sign-on Terms and Definitions

The following terms apply to single sign-on.

Authentication

Authentication is the process of establishing a user's identity. There are many types of authentication. The most common authentication process involves a user ID and password.

Dynamically Protected URLs

A Dynamically Protected URL is a URL whose implementing application is aware of the Oracle Access Manager environment. The application may allow a user limited access when the user has not been authenticated. Applications that implement dynamic protection typically display a Login link to provide user authentication and gain greater access to the application's resources.

Oracle Identity Management (OIM) and Oracle Access Manager (OAM) for 11g

Oracle Identity Management (OIM) 11g includes Oracle Internet Directory and ODSM. Oracle Access Manager (OAM) 11g R2 should be used for SSO using WebGate. Oracle Forms 11g contains Oracle HTTP server and other Retail Applications will use Oracle WebTier11g for HTTP Server.

MOD_WEBLOGIC

mod_WebLogic operates as a module within the HTTP server that allows requests to be proxied from the OracleHTTP server to the Oracle WebLogic server.

Oracle Access Manager 11g Agent (WebGate)

Oracle WebGates are policy enforcement agents which reside with relying parties and delegate authentication and authorization tasks to OAM servers.

Oracle Internet Directory

Oracle Internet Directory (OID) is an LDAP-compliant directory service. It contains user ids, passwords, group membership, privileges, and other attributes for users who are authenticated using Oracle Access Manager.

Partner Application

A partner application is an application that delegates authentication to the Oracle Identity Management Infrastructure. One such partner application is the Oracle HTTP Server (OHS) supplied with Oracle Forms Server or WebTier11g Server if using other Retail Applications other than Oracle Forms Applications.

All partner applications must be registered with Oracle Access Manager (OAM) 11g. An output product of this registration is a configuration file the partner application uses to verify a user has been previously authenticated.

Statically Protected URLs

A URL is considered to be Statically Protected when an Oracle HTTP server is configured to limit access to this URL to only SSO authenticated users. Any unauthenticated attempt to access a Statically Protected URL results in the display of a login page or an error page to the user.

Servlets, static HTML pages, and JSP pages may be statically protected.

What Single Sign-On is not

Single Sign-On is NOT a user ID/password mapping technology.

However, some applications can store and retrieve user IDs and passwords for non-SSO applications within an OID LDAP server. An example of this is the Oracle Forms Web Application framework, which maps Single Sign-On user IDs to a database logins on a per-application basis.

How Oracle Single Sign-On Works

Oracle Access Manager involves several different components. These are:

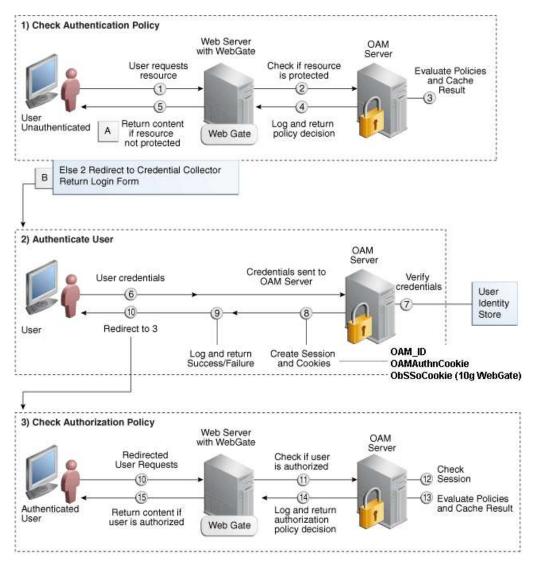
- The Oracle Access Manager (OAM) server, which is responsible for the back-end authentication of the user.
- The Oracle Internet Directory LDAP server, which stores user IDs, passwords, and group (role) membership.
- The Oracle Access Manager Agent associated with the Web application, which verifies and controls browser redirection to the Oracle Access Manager server.
- If the Web application implements dynamic protection, then the Web application itself is involved with the OAM system.

About SSO Login Processing with OAM Agents

- **1.** The user requests a resource.
- 2. Webgate forwards the request to OAM for policy evaluation
- **3.** OAM:
 - **a.** Checks for the existence of an SSO cookie.
 - **b.** Checks policies to determine if the resource is protected and if so, how?
- 4. OAM Server logs and returns the decision
- 5. Webgate responds as follows:
 - Unprotected Resource: Resource is served to the user
 - Protected Resource: Resource is redirected to the credential collector. The login form is served based on the authentication policy. Authentication processing begins
- **6.** User sends credentials
- 7. OAM verifies credentials
- **8.** OAM starts the session and creates the following host-based cookies:
 - One per partner: OAMAuthnCookie set by 11g WebGates using authentication token received from the OAM Server after successful authentication.
 Note: A valid cookie is required for a session.
 - One for OAM Server: OAM_ID
- 9. OAM logs Success of Failure.
- **10.** Credential collector redirects to WebGate and authorization processing begins.
- **11.** WebGate prompts OAM to look up policies, compare them to the user's identity, and determine the user's level of authorization.
- 12. OAM logs policy decision and checks the session cookie.
- 13. OAM Server evaluates authorization policies and cache the result.
- 14. OAM Server logs and returns decisions

- **15.** WebGate responds as follows:
 - If the authorization policy allows access, the desired content or applications are served to the user.
 - If the authorization policy denies access, the user is redirected to another URL determined by the administrator.

SSO Login Processing with OAM Agents



Installation Overview

Installing an Oracle Retail supported Single Sign-On installation using OAM11g requires installation of the following:

- Oracle Internet Directory (OID) LDAP server and the Oracle Directory Services Manager. They are typically installed using the Installer of Oracle Identity Management. The ODSM application can be used for user and realm management within OID.
- **2.** Oracle Access Manager 11gR2 has to be installed and configured.
- **3.** Additional midtier instances (such as Oracle Forms 11gr2) for Oracle Retail applications based on Oracle Forms technologies (such as RMS). These instances must be registered with the OAM installed in step 2.
- **4.** Additional application servers to deploy other Oracle Retail applications and performing application specific initialization and deployment activities must be registered with OAM installed in step 2.

Infrastructure Installation and Configuration

The Infrastructure installation for Oracle Access Manager (OAM) is dependent on the environment and requirements for its use. Deploying Oracle Access Manager (OAM) to be used in a test environment does not have the same availability requirements as for a production environment. Similarly, the Oracle Internet Directory (OID) LDAP server can be deployed in a variety of different configurations. See the *Oracle Identity Management Installation Guide11g*.

OID User Data

Oracle Internet Directory is an LDAP v3 compliant directory server. It provides standards-based user definitions out of the box.

Customers with existing corporate LDAP implementations may need to synchronize user information between their existing LDAP directory servers and OID. OID supports standard LDIF file formats and provides a JNDI compliant set of Java classes as well. Moreover, OID provides additional synchronization and replication facilities to integrate with other corporate LDAP implementations.

Each user ID stored in OID has a specific record containing user specific information. For role-based access, groups of users can be defined and managed within OID. Applications can thus grant access based on group (role) membership saving administration time and providing a more secure implementation.

User Management

User Management consists of displaying, creating, updating or removing user information. There are many methods of managing an LDAP directory including LDIF scripts or Oracle Directory Services Manager (ODSM) available for OID11g.

ODSM

Oracle Directory Services Manager (ODSM) is a Web-based application used in OID11g is designed for both administrators and users which enables you to configure the structure of the directory, define objects in the directory, add and configure users, groups, and other entries. ODSM is the interface you use to manage entries, schema, security, adapters, extensions, and other directory features.

LDIF Scripts

Script based user management can be used to synchronize data between multiple LDAP servers. The standard format for these scripts is the LDAP Data Interchange Format (LDIF). OID supports LDIF script for importing and exporting user information. LDIF scripts may also be used for bulk user load operations.

User Data Synchronization

The user store for Oracle Access Manager resides within the Oracle Internet Directory (OID) LDAP server. Oracle Retail applications may require additional information attached to a user name for application-specific purposes and may be stored in an application-specific database. Currently, there are no Oracle Retail tools for synchronizing changes in OID stored information with application-specific user stores. Implementers should plan appropriate time and resources for this process. Oracle Retail strongly suggests that you configure any Oracle Retail application using an LDAP for its user store to point to the same OID server used with Oracle Access Manager.

Appendix: Setting Up Password Stores with wallets/credential stores

As part of an application installation, administrators must set up password stores for user accounts using wallets/credential stores. Some password stores must be installed on the application database side. While the installer handles much of this process, the administrators must perform some additional steps.

Password stores for the application and application server user accounts must also be installed; however, the installer takes care of this entire process.

ORACLE Retail Merchandising applications now have 3 different types of password stores. They are database wallets, java wallets, and database credential stores. Background and how to administer them below are explained in this appendix

About Database Password Stores and Oracle Wallet

Oracle databases have allowed other users on the server to see passwords in case database connect strings (username/password@db) were passed to programs. In the past, users could navigate to ps -ef|grep <username> to see the password if the password was supplied in the command line when calling a program.

To make passwords more secure, Oracle Retail has implemented the Oracle Software Security Assurance (OSSA) program. Sensitive information such as user credentials now must be encrypted and stored in a secure location. This location is called password stores or wallets. These password stores are secure software containers that store the encrypted user credentials.

Users can retrieve the credentials using aliases that were set up when encrypting and storing the user credentials in the password store. For example, if username/password@db is entered in the command line argument and the alias is called db_username, the argument to a program is as follows:

sqlplus /@db_username

This would connect to the database as it did previously, but it would hide the password from any system user.

After this is configured, as in the example above, the application installation and the other relevant scripts are no longer needed to use embedded usernames and passwords. This reduces any security risks that may exist because usernames and passwords are no longer exposed.

When the installation starts, all the necessary user credentials are retrieved from the Oracle Wallet based on the alias name associated with the user credentials.

There are three different types of password stores. One type explain in the next section is for database connect strings used in program arguments (such as sqlplus /@db username). The others are for Java application installation and application use.

Setting Up Password Stores for Database User Accounts

After the database is installed and the default database user accounts are set up, administrators must set up a password store using the Oracle wallet. This involves assigning an alias for the username and associated password for each database user account. The alias is used later during the application installation. This password store must be created on the system where the application server and database client are installed.

This section describes the steps you must take to set up a wallet and the aliases for the database user accounts. For more information on configuring authentication and password stores, see the *Oracle Database Security Guide*.

Note: In this section, <wallet_location> is a placeholder text for illustration purposes. Before running the command, ensure that you specify the path to the location where you want to create and store the wallet.

To set up a password store for the database user accounts, perform the following steps:

1. Create a wallet using the following command:

mkstore -wrl <wallet_location> -create

After you run the command, a prompt appears. Enter a password for the Oracle Wallet in the prompt.

Note: The mkstore utility is included in the Oracle Database Client installation.

The wallet is created with the auto-login feature enabled. This feature enables the database client to access the wallet contents without using the password. For more information, refer to the *Oracle Database Advanced Security Administrator's Guide*.

2. Create the database connection credentials in the wallet using the following command:

mkstore -wrl <wallet_location> -createCredential <alias-name> <database-username>

After you run the command, a prompt appears. Enter the password associated with the database user account in the prompt.

- **3.** Repeat Step 2 for all the database user accounts.
- 4. Update the sqlnet.ora file to include the following statements:

```
WALLET_LOCATION = (SOURCE = (METHOD = FILE) (METHOD_DATA = (DIRECTORY =
<wallet_location>)))
SQLNET.WALLET_OVERRIDE = TRUE
SSL_CLIENT_AUTHENTICATION = FALSE
```

5. Update the tnsnames.ora file to include the following entry for each alias name to be set up.

```
<alias-name> =
  (DESCRIPTION =
   (ADDRESS_LIST =
        (ADDRESS = (PROTOCOL = TCP) (HOST = <host>) (PORT = <port>))
   )
   (CONNECT_DATA =
        (SERVICE_NAME = <service>)
   )
  )
)
```

In the previous example, <alias-name>, <host>, <port>, and <service> are placeholder text for illustration purposes. Ensure that you replace these with the relevant values.

Setting up Wallets for Database User Accounts

The following examples show how to set up wallets for database user accounts for the following applications:

• For RMS, RWMS, RPM Batch using sqlplus or sqlldr, RETL, RMS, RWMS, and ARI

For RMS, RWMS, RPM Batch using sqlplus or sqlldr, RETL, RMS, RWMS, and ARI

To set up wallets for database user accounts, do the following.

1. Create a new directory called wallet under your folder structure.

```
cd /projects/rms14/dev/
mkdir .wallet
```

Note: The default permissions of the wallet allow only the owner to use it, ensuring the connection information is protected. If you want other users to be able to use the connection, you must adjust permissions appropriately to ensure only authorized users have access to the wallet.

2. Create a sqlnet.ora in the wallet directory with the following content.

```
WALLET_LOCATION = (SOURCE = (METHOD = FILE) (METHOD_DATA =
(DIRECTORY = /projects/rms14/dev/.wallet)))
SQLNET.WALLET_OVERRIDE=TRUE
SSL_CLIENT_AUTHENTICATION=FALSE
```

Note: WALLET_LOCATION must be on line 1 in the file.

3. Setup a tnsnames.ora in the wallet directory. This tnsnames.ora includes the standard tnsnames.ora file. Then, add two custom tns_alias entries that are only for use with the wallet. For example, sqlplus /@dvols29_rms0luser.

```
ifile = /u00/oracle/product/11.2.0.1/network/admin/tnsnames.ora
```

```
Examples for a NON pluggable db:
dvols29 rms01user =
  (DESCRIPTION = (ADDRESS LIST = (ADDRESS = (PROTOCOL = tcp)
  (host = xxxxxx.us.oracle.com) (Port = 1521)))
    (CONNECT DATA = (SID = <sid name> (GLOBAL NAME = <sid name>)))
dvols29 rms01user.world =
  (DESCRIPTION = (ADDRESS LIST = (ADDRESS = (PROTOCOL = tcp)
  (host = xxxxxx.us.oracle.com) (Port = 1521)))
    (CONNECT DATA = (SID = <sid name>) (GLOBAL_NAME = <sid_name>)))
Examples for a pluggable db:
dvols29 rms01user =
  (DESCRIPTION = (ADDRESS LIST = (ADDRESS = (PROTOCOL = tcp)
  (host = xxxxxx.us.oracle.com) (Port = 1521)))
    (CONNECT DATA = (SERVICE NAME = <pluggable db name>)))
dvols29 rms01user.world =
  (DESCRIPTION = (ADDRESS LIST = (ADDRESS = (PROTOCOL = tcp)
  (host = xxxxxx.us.oracle.com) (Port = 1521)))
    (CONNECT DATA = (SERVICE_NAME = <pluggable db name>)))
```

Note: It is important to not just copy the tnsnames.ora file because it can quickly become out of date. The ifile clause (shown above) is key.

- 4. Create the wallet files. These are empty initially.
 - a. Ensure you are in the intended location.
 \$ pwd
 /projects/rms14/dev/.wallet
 - **b.** Create the wallet files.

\$ mkstore -wrl . -create

- **c.** Enter the wallet password you want to use. It is recommended that you use the same password as the UNIX user you are creating the wallet on.
- **d.** Enter the password again.

Two wallet files are created from the above command:

- ewallet.p12
- cwallet.sso
- **5.** Create the wallet entry that associates the user name and password to the custom ths alias that was setup in the wallet's thsnames.ora file.

mkstore -wrl . -createCredential <tns alias> <username> <password>

```
Example: mkstore -wrl . -createCredential dvols29_rms01user rms01user passwd
```

6. Test the connectivity. The ORACLE_HOME used with the wallet must be the same version or higher than what the wallet was created with.

 $\$ export TNS_ADMIN=/projects/rms14/dev/.wallet /* This is very import to use wallet to point at the alternate tnsnames.ora created in this example */

\$ sqlplus /@dvols29 rms01user

SQL*Plus: Release 12

Connected to: Oracle Database 12g

SQL> show user USER is "rms0luser"

Running batch programs or shell scripts would be similar:

```
Ex: dtesys /@dvols29_rms0luser
script.sh /@dvols29_rms0luser
Set the UP unix variable to help with some compiles :
export UP=/@dvols29_rms0luser
for use in RMS batch compiles, and RMS, RWMS, and ARI forms compiles.
```

As shown in the example above, users can ensure that passwords remain invisible.

Additional Database Wallet Commands

The following is a list of additional database wallet commands.

Delete a credential on wallet

mkstore -wrl . -deleteCredential dvols29_rms01user

- Change the password for a credential on wallet mkstore -wrl . -modifyCredential dvols29_rms01user rms01user passwd
- List the wallet credential entries

mkstore -wrl . -list

This command returns values such as the following.

oracle.security.client.connect_string1
oracle.security.client.user1
oracle.security.client.password1

• View the details of a wallet entry

mkstore -wrl . -viewEntry oracle.security.client.connect_string1

Returns the value of the entry:

dvols29_rms01user
mkstore -wrl . -viewEntry oracle.security.client.user1

Returns the value of the entry:

rms01user

mkstore -wrl . -viewEntry oracle.security.client.password1
Returns the value of the entry:
Passwd

Passwo

Setting up RETL Wallets

RETL creates a wallet under \$RFX_HOME/etc/security, with the following files:

- cwallet.sso
- jazn-data.xml
- jps-config.xml
- README.txt

To set up RETL wallets, perform the following steps:

- **1.** Set the following environment variables:
 - ORACLE SID=<retaildb>
 - RFX_HOME=/u00/rfx/rfx-13
 - RFX_TMP=/u00/rfx/rfx-13/tmp
 - JAVA_HOME=/usr/jdk1.6.0_12.64bit
 - LD_LIBRARY_PATH=\$ORACLE_HOME
 - PATH=\$RFX_HOME/bin:\$JAVA_HOME/bin:\$PATH
- 2. Change directory to \$RFX_HOME/bin.
- 3. Run setup-security-credential.sh.
 - Enter 1 to add a new database credential.
 - Enter the dbuseralias. For example, retl_java_rms01user.
 - Enter the database user name. For example, rms01user.
 - Enter the database password.
 - Re-enter the database password.
 - Enter D to exit the setup script.

4. Update your RETL environment variable script to reflect the names of both the Oracle Networking wallet and the Java wallet.

For example, to configure RETLforRPAS, modify the following entries in \$RETAIL_HOME/RETLforRPAS/rfx/etc/rmse_rpas_config.env.

- The RETL_WALLET_ALIAS should point to the Java wallet entry: - export RETL_WALLET_ALIAS="retl_java_rms0luser"
- The ORACLE_WALLET_ALIAS should point to the Oracle network wallet entry:
 - export ORACLE_WALLET_ALIAS="dvols29_rms01user"
- The SQLPLUS_LOGON should use the ORACLE_WALLET_ALIAS:
 - export SQLPLUS_LOGON="/@\${ORACLE_WALLET_ALIAS}"
- 5. To change a password later, run setup-security-credential.sh.
 - Enter 2 to update a database credential.
 - Select the credential to update.
 - Enter the database user to update or change.
 - Enter the password of the database user.
 - Re-enter the password.

For Java Applications (SIM, ReIM, RPM, RIB, AIP, Alloc, ReSA, RETL)

For Java applications, consider the following:

- For database user accounts, ensure that you set up the same alias names between the password stores (database wallet and Java wallet). You can provide the alias name during the installer process.
- Document all aliases that you have set up. During the application installation, you must enter the alias names for the application installer to connect to the database and application server.
- Passwords are not used to update entries in Java wallets. Entries in Java wallets are stored in partitions, or application-level keys. In each retail application that has been installed, the wallet is located in <WEBLOGIC_DOMAIN_HOME>/retail/<appname>/config Example: /u00/webadmin/product/10.3.6/WLS/user_projects/domains/14_mck_soa_domai n/retail/reim14/config
- Application installers should create the Java wallets for you, but it is good to know how this works for future use and understanding.
- Scripts are located in <WEBLOGIC_DOMAIN_HOME>/retail/<appname>/retailpublic-security-api/bin for administering wallet entries.
- Example:
- /u00/webadmin/product/10.3.6/WLS/user_projects/domains/REIMDomain/retai l/reim14/retail-public-security-api/bin
- In this directory is a script to help you update each alias entry without having to remember the wallet details. For example, if you set the RPM database alias to rms01user, you will find a script called update-RMS01USER.sh.

Note: These scripts are available only with applications installed by way of an installer.

• Two main scripts are related to this script in the folder for more generic wallet operations: dump_credentials.sh and save_credential.sh.

- If you have not installed the application yet, you can unzip the application zip file and view these scripts in <app>/application/retail-public-security-api/bin.
- Example:
- /u00/webadmin/reim14/application/retail-public-security-api/bin

update-<ALIAS>.sh

update-<ALIAS>.sh updates the wallet entry for this alias. You can use this script to change the user name and password for this alias. Because the application refers only to the alias, no changes are needed in application properties files.

Usage:

update-<username>.sh <myuser>

Example:

```
/u00/webadmin/product/10.3.x/WLS/user_projects/domains/RPMDomain/retail/rpm14/reta
il-public-security-api/bin> ./update-RMS01USER.sh
usage: update-RMS01USER.sh <username>
<username>: the username to update into this alias.
Example: update-RMS01USER.sh myuser
Note: this script will ask you for the password for the username that you pass in.
/u00/webadmin/product/10.3.x/WLS/user_projects/domains/RPMDomain/retail/rpm14/reta
il-public-security-api/bin>
```

dump_credentials.sh

dump_credentials.sh is used to retrieve information from wallet. For each entry found in the wallet, the wallet partition, the alias, and the user name are displayed. Note that the password is not displayed. If the value of an entry is uncertain, run save_credential.sh to resave the entry with a known password.

dump_credentials.sh <wallet location>

Example:

```
dump_credentials.sh
location:/u00/webadmin/product/10.3.x/WLS/user_projects/domains/REIMDomain/retail/
reim14/config
```

Retail Public Security API Utility

Below are the credentials found in the wallet at the location:/u00/webadmin/product/10.3.x/WLS/user_projects/domains/REIMDom ain/retail/reim14/config

```
Application level key partition name:reim14
User Name Alias:WLS-ALIAS User Name:weblogic
User Name Alias:RETAIL-ALIAS User Name:retail.user
User Name Alias:LDAP-ALIAS User Name:RETAIL.USER
User Name Alias:RMS-ALIAS User Name:rms14mock
```

User Name Alias: REIMBAT-ALIAS User Name: reimbat

save_credential.sh

save_credential.sh is used to update the information in wallet. If you are unsure about the information that is currently in the wallet, use dump_credentials.sh as indicated above.

save_credential.sh -a <alias> -u <user> -p <partition name> -l <path of the wallet file location where credentials are stored>

Example:

/u00/webadmin/mock14_testing/rtil/rtil/application/retail-public-security-api/bin> save credential.sh -1 wallet test -a myalias -p mypartition -u myuser

Retail Public Security API Utility

Enter password: Verify password:

Note: -p in the above command is for partition name. You must specify the proper partition name used in application code for each Java application.

save_credential.sh and dump_credentials.sh scripts are the same for all applications. If using save_credential.sh to add a wallet entry or to update a wallet entry, bounce the application/managed server so that your changes are visible to the application. Also, save a backup copy of your cwallet.sso file in a location outside of the deployment path, because redeployment or reinstallation of the application will wipe the wallet entries you made after installation of the application. To restore your wallet entries after a redeployment/reinstallation, copy the backed up cwallet.sso file over the cwallet.sso file. Then bounce the application/managed server.

Usage

Retail Public Security API Utility usage: save_credential.sh -au[plh] E.g. save_credential.sh -a rms-alias -u rms_user -p rib-rms -l ./ -a,--userNameAlias <arg> alias for which the credentials needs to be stored -h,--help usage information -l,--locationofWalletDir <arg> location where the wallet file is created.If not specified, it creates the wallet under secure-credential-wallet directory which is already present under the retail-public-security-api/ directory. -p,--appLevelKeyPartitionName <arg> application level key partition name -u,--userName <arg> username to be stored in secure credential wallet for specified alias*

How does the Wallet Relate to the Application?

The ORACLE Retail Java applications have the wallet alias information you create in an <app-name>.properties file. Below is the reim.properties file. Note the database information and the user are presented as well. The property called datasource.credential.alias=RMS-ALIAS uses the ORACLE wallet with the argument of RMS-ALIAS at the csm.wallet.path and csm.wallet.partition.name = reim14 to retrieve the password for application use.

Reim.properties code sample:

How does the Wallet Relate to Java Batch Program use?

Some of the ORACLE Retail Java batch applications have an alias to use when running Java batch programs. For example, alias REIMBAT-ALIAS maps through the wallet to dbuser RMS01APP, already on the database. To run a ReIM batch program the format would be: reimbatchpgmname REIMBAT-ALIAS <other arguments as needed by the program in question>

Database Credential Store Administration

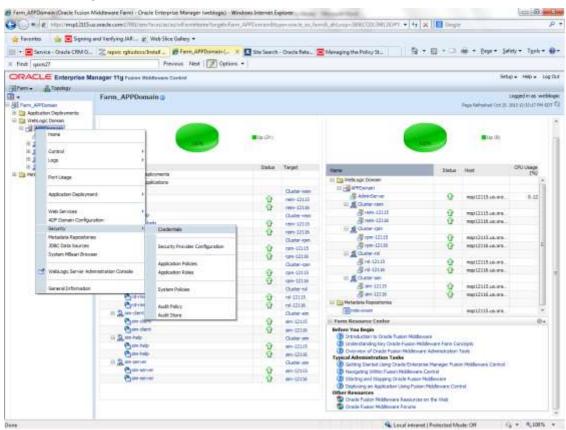
retail/reim14/config

csm.wallet.partition.name=reim14

The following section describes a domain level database credential store. This is used in RPM login processing, SIM login processing, RWMS login processing, RESA login processing and Allocation login processing and policy information for application permission. Setting up the database credential store is addressed in the RPM, SIM, RESA, RWMS, and Alloc 14.1.3 install guides.

The following sections show an example of how to administer the password stores thru ORACLE Enterprise Manger Fusion Middleware Control, a later section will show how to do this thru WLST scripts.

 The first step is to use your link to Oracle Enterprise Manager Fusion Middleware Control for the domain in question. Locate your domain on the left side of the screen and do a right mouse click on the domain and select Security > Credentials

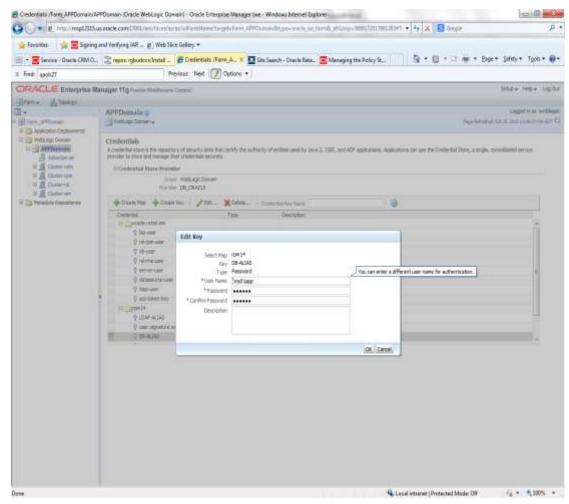


2. Click on Credentials and you will get a screen similar to the following. The following screen is expanded to make it make more sense. From here you can administer credentials.

🗄 + \Xi Service - Directe CRM O.,	The second	Web Sies Galla	ų.					
	Z vepec typed	ocafintal 🖉 D	etertal: Fare L.	x 🖬 Site Si	anch - Cracle Reta 🔳 Manage	ng the Policy In.,	◎·◎·◎●・BW	• Selety • Tools • 😥 •
First sech27		Provides	Net Defen	1.7				
ORACLE Enterprise War	nager tilg form	n Methone Serles	e)					Ster Here 1000/
atam . A Tapoogr								
•	APPDomain							raddet to at megalitie
🚰 Farm_APPContain 🗟 🛄 Application Depisionents	Hindbuoge Den	w.					. New followind	NUCCESS DAMAGE STREET
Wellog: Damen Mellog: Damen Mellog: Damen Addition		e is the repository of te and manage their cred		te altoria o	Fertiles used by laws 2, 1285, and	ACF applications. Applicati	ons can use the Oedental Store, a single, o	orvanklasteci aervice
部 盧 Curter rem	Economy	i Store Provider						
単成 Custered 単成 Custered 形成 Custered		Sizer We Wander GBJ	Logo Doman ORAQE					
it 🛄 Netacieta Repositories	+ Dente file	e +Deate lay	100 200	m. De	Serval Res Name			
	Oxpental		7,94	in an	Description			
	E _jorid	m.retail.am						
		o une	Page	word				1
	10.57	dran-uder		word				
	100 million (100 m	b-user		matc				
	1.00	demo-pare		neoed.				
		erver-ster	Pess					1
		allen vict viet	Pest					
	1000	ter-user	Feo					
	and the second second	e-bienien	5814	16				
	B (pp)	a SALAS		102				
		er Agrifunsit	Pete	nuono nuond				
		er versten sex E-ALING		word				
	- ¥ 0	Colorado -		NORG				· · · ·

The Create Map add above is to create a new map with keys under it. A map would usually be an application such as rpm14. The keys will usually represent alias to various users (database user, WebLogic user, LDAP user, etc). The application installer should add the maps so you should not often have to add a map.

Creation of the main keys for an application will also be built by the application installer. You will not be adding keys often as the installer puts the keys out and the keys talk to the application. You may be using EDIT on a key to see what user the key/alias points to and possibly change/reset its password. To edit a key/alias, highlight the key/alias in question and push the edit icon nearer the top of the page. You will then get a screen as follows:



The screen above shows the map (rpm14) that came from the application installer, the key (DB-ALIAS) that came from the application installer (some of the keys/alias are selected by the person who did the application install, some are hard coded by the application installer in question), the type (in this case password), and the user name and password. This is where you would check to see that the user name is correct and reset the password if needed. REMEMBER, a change to an item like a database password WILL make you come into this and also change the password. Otherwise your application will NOT work correctly.

Managing Credentials with WSLT/OPSS Scripts

This procedure is optional as you can administer the credential store through the Oracle enterprise manager associated with the domain of your application install for RPM, SIM, RESA, or Allocation.

An Oracle Platform Security Scripts (OPSS) script is a WLST script, in the context of the Oracle WebLogic Server. An online script is a script that requires a connection to a running server. Unless otherwise stated, scripts listed in this section are online scripts and operate on a database credential store. There are a few scripts that are offline, that is, they do not require a server to be running to operate.

Read-only scripts can be performed only by users in the following WebLogic groups: Monitor, Operator, Configurator, or Admin. Read-write scripts can be performed only by users in the following WebLogic groups: Admin or Configurator. All WLST scripts are available out-of-the-box with the installation of the Oracle WebLogic Server.

WLST scripts can be run in interactive mode or in script mode. In interactive mode, you enter the script at a command-line prompt and view the response immediately after. In script mode, you write scripts in a text file (with a py file name extension) and run it without requiring input, much like the directives in a shell script.

For platform-specific requirements to run an OPSS script, see

http://docs.oracle.com/cd/E21764_01/core.1111/e10043/managepols.htm#CIHIBBDJ

The weakness with the WLST/OPSS scripts is that you have to already know your map name and key name. In many cases, you do not know or remember that. The database credential store way through enterprise manager is a better way to find your map and key names easily when you do not already know them. A way in a command line mode to find the map name and alias is to run orapki. An example of orapki is as follows:

/u00/webadmin/product/wls_apps/oracle_common/bin> ./orapki wallet display – wallet

/u00/webadmin/product/wls_apps/user_projects/domains/APPDomain/config/fmw config

(where the path above is the domain location of the wallet)

Output of orapki is below. This shows map name of rpm14 and each alias in the wallet:

Oracle PKI Tool: Version 11.1.1.9.0

Requested Certificates: User Certificates: Oracle Secret Store entries: rpm14@#3#@DB-ALIAS rpm14@#3#@LDAP-ALIAS rpm14@#3#@RETAIL.USER rpm14@#3#@user.signature.salt rpm14@#3#@user.signature.secretkey rpm14@#3#@WEBLOGIC-ALIAS rpm14@#3#@WLS-ALIAS Trusted Certificates: Subject: OU=Class 1 Public Primary Certification Authority,O=VeriSign\, Inc.,C=US OPSS provides the following scripts on all supported platforms to administer credentials (all scripts are online, unless otherwise stated. You need the map name and the key name to run the scripts below

- listCred
- updateCred
- createCred
- deleteCred
- modifyBootStrapCredential
- addBootStrapCredential

listCred

The script listCred returns the list of attribute values of a credential in the credential store with given map name and key name. This script lists the data encapsulated in credentials of type password only.

Script Mode Syntax

listCred.py -map mapName -key keyName

Interactive Mode Syntax

listCred(map="mapName", key="keyName")

The meanings of the arguments (all required) are as follows:

- map specifies a map name (folder).
- key specifies a key name.

Examples of Use:

The following invocation returns all the information (such as user name, password, and description) in the credential with map name myMap and key name myKey: listCred.py -map myMap -key myKey

The following example shows how to run this command and similar credential commands with WLST:

/u00/webadmin/product/wls_apps/oracle_common/common/bin> sh wlst.sh

Initializing WebLogic Scripting Tool (WLST)...

Welcome to WebLogic Server Administration Scripting Shell

wls:/offline> connect('weblogic','password123','xxxxxx.us.oracle.com:17001') Connecting to t3://xxxxx.us.oracle.com:17001 with userid weblogic ... Successfully connected to Admin Server 'AdminServer' that belongs to domain 'APPDomain'.

wls:/APPDomain/serverConfig> listCred(map="rpm14",key="DB-ALIAS")
Already in Domain Runtime Tree

[Name : rms0lapp, Description : null, expiry Date : null]
PASSWORD:retail
*The above means for map rpm14 in APPDomain, alias DB-ALIAS points to database
user rms0lapp with a password of retail

updateCred

The script updateCred modifies the type, user name, and password of a credential in the credential store with given map name and key name. This script updates the data encapsulated in credentials of type password only. Only the interactive mode is supported.

Interactive Mode Syntax

updateCred(map="mapName", key="keyName", user="userName", password="passW", [desc="description"])

The meanings of the arguments (optional arguments are enclosed by square brackets) are as follows:

- map specifies a map name (folder) in the credential store.
- key specifies a key name.
- user specifies the credential user name.
- password specifies the credential password.
- desc specifies a string describing the credential.

Example of Use:

The following invocation updates the user name, password, and description of the password credential with map name myMap and key name myKey:

updateCred(map="myMap", key="myKey", user="myUsr", password="myPassw")

createCred

The script createCred creates a credential in the credential store with a given map name, key name, user name and password. This script can create a credential of type password only. Only the interactive mode is supported.

Interactive Mode Syntax

createCred(map="mapName", key="keyName", user="userName", password="passW",
[desc="description"])

The meanings of the arguments (optional arguments are enclosed by square brackets) are as follows:

- map specifies the map name (folder) of the credential.
- key specifies the key name of the credential.
- user specifies the credential user name.
- password specifies the credential password.
- desc specifies a string describing the credential.

Example of Use:

The following invocation creates a password credential with the specified data: createCred(map="myMap", key="myKey", user="myUsr", password="myPassw")

deleteCred

The script deleteCred removes a credential with given map name and key name from the credential store.

Script Mode Syntax

deleteCred.py -map mapName -key keyName

Interactive Mode Syntax

deleteCred(map="mapName", key="keyName")

The meanings of the arguments (all required) are as follows:

- map specifies a map name (folder).
- key specifies a key name.

Example of Use:

The following invocation removes the credential with map name ${\tt myMap}$ and key name ${\tt myKey}$:

deleteCred.py -map myMap -key myKey

modifyBootStrapCredential

The offline script modifyBootStrapCredential modifies the bootstrap credentials configured in the default jps context, and it is typically used in the following scenario: suppose that the policy and credential stores are LDAP-based, and the credentials to access the LDAP store (stored in the LDAP server) are changed. Then this script can be used to seed those changes into the bootstrap credential store.

This script is available in interactive mode only.

Interactive Mode Syntax

```
modifyBootStrapCredential(jpsConfigFile="pathName", username="usrName",
password="usrPass")
```

The meanings of the arguments (all required) are as follows:

- jpsConfigFile specifies the location of the file jps-config.xml relative to the location where the script is run. Example location: /u00/webadmin/product/wls_apps/user_projects/domains/APPDomain/config/ fmwconfig. Example location of the bootstrap wallet is /u00/webadmin/product/wls_apps/user_projects/domains/APPDomain/config/ fmwconfig/bootstrap
- username specifies the distinguished name of the user in the LDAP store.
- password specifies the password of the user.

Example of Use:

Suppose that in the LDAP store, the password of the user with distinguished name cn=orcladmin has been changed to welcome1, and that the configuration file jps-config.xml is located in the current directory.Then the following invocation changes the password in the bootstrap credential store to welcome1:

```
modifyBootStrapCredential(jpsConfigFile='./jps-config.xml',
username='cn=orcladmin', password='welcome1')
```

Any output regarding the audit service can be disregarded.

addBootStrapCredential

The offline script addBootStrapCredential adds a password credential with given map, key, user name, and user password to the bootstrap credentials configured in the default jps context of a jps configuration file.

Classloaders contain a hierarchy with parent classloaders and child classloaders. The relationship between parent and child classloaders is analogous to the object relationship of super classes and subclasses. The bootstrap classloader is the root of the Java classloader hierarchy. The Java virtual machine (JVM) creates the bootstrap classloader, which loads the Java development kit (JDK) internal classes and java.* packages included in the JVM. (For example, the bootstrap classloader loads java.lang.String.)

This script is available in interactive mode only.

Interactive Mode Syntax

addBootStrapCredential(jpsConfigFile="pathName", map="mapName", key="keyName", username="usrName", password="usrPass")

The meanings of the arguments (all required) are as follows:

- jpsConfigFile specifies the location of the file jps-config.xml relative to the location where the script is run. Example location: /u00/webadmin/product/wls_apps/user_projects/domains/APPDomain/config/ fmwconfig
- map specifies the map of the credential to add.
- key specifies the key of the credential to add.
- username specifies the name of the user in the credential to add.
- password specifies the password of the user in the credential to add.

Example of Use:

The following invocation adds a credential to the bootstrap credential store:

addBootStrapCredential(jpsConfigFile='./jps-config.xml', map='myMapName', key='myKeyName', username='myUser', password ='myPass')

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
RMS batch	DB	<rms batch="" dir<br="" install="">(RETAIL_HOME)>/.wallet</rms>	n/a	<database SID>_<data base schema owner></data </database 	<rms schema owner></rms 	Compile, execution	Installer	n/a	Alias hard-coded by installer
RMS forms	DB	<forms install<br="">dir>/base/.wallet</forms>	n/a	<database SID>_<data base schema owner></data </database 	<rms schema owner></rms 	Compile	Installer	n/a	Alias hard-coded by installer
ARI forms	DB	<forms install<br="">dir>/base/.wallet</forms>	n/a	<db_ari01></db_ari01>	<ari schema<br="">owner></ari>	Compile	Manual	ari-alias	
RMWS forms	DB	<forms install<br="">dir>/base/.wallet</forms>	n/a	<database SID>_<data base schema owner></data </database 	<rwms schema owner></rwms 	Compile forms, execute batch	Installer	n/a	Alias hard-coded by installer
RPM batch plsql and sqlldr	DB	<rpm batch="" install<br="">dir>/.wallet</rpm>	n/a	<rms schema owner alias></rms 	<rms schema owner></rms 	Execute batch	Manual	rms-alias	RPM plsql and sqlldr batches
RWMS auto- login	JAVA	<forms install<br="">dir>/base/.javawallet</forms>							
			<rwms Installation name></rwms 	<rwms database user alias></rwms 	<rwms schema owner></rwms 	RWMS forms app to avoid dblogin screen	Installer	rwms14inst	
			<rwms Installation name></rwms 	BI_ALIAS	<bi Publisher administrat ive user></bi 	RWMS forms app to connect to BI Publisher	Installer	n/a	Alias hard-coded by installer

Quick Guide for Retail Password Stores (db wallet, java wallet, DB credential stores)

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
AIP app	JAVA	<weblogic domain<br="">home>/retail/<deployed aip app name>/config</deployed </weblogic>							Each alias must be unique
			aip14	<aip weblogic user alias></aip 	<aip weblogic user name></aip 	App use	Installer	aip- weblogic- alias	
			aip14	<aip database schema user alias></aip 	<aip database schema user name></aip 	App use	Installer	aip01user- alias	
			aip14	<rib-aip weblogic user alias></rib-aip 	<rib-aip weblogic user name></rib-aip 	App use	Installer	rib-aip- weblogic- alias	
RPM app	DB credenti al store		Map=rpm14 or what you called the app at install time.	Many for app use					<weblogic domain<br="">home>/config/fmwc onfig/jps-config.xml has info on the credential store. This directory also has the domain cwallet.sso file.</weblogic>
RPM app	JAVA	<weblogic domain<br="">home>/retail/<deployed rpm app name>/config</deployed </weblogic>							Each alias must be unique
			rpm14	<rpm weblogic user alias></rpm 	<rpm weblogic user name></rpm 	App use	Installer	rpm- weblogic- alias	

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
			rpm14	<rpm batch<br="">user name> is the alias. Yes, here alias name = user name</rpm>	<rpm batch<br="">user name></rpm>	App, batch use	Installer	RETAIL.US ER	
	JAVA	<retail_home>/orpatch/co nfig/javaapp_rpm</retail_home>							Each alias must be unique
			retail_install er	<rpm weblogic user alias></rpm 	<rpm weblogic user name></rpm 	App use	Installer	weblogic- alias	
			retail_install er	<rms shema<br="">user alias></rms>	<rms shema user name></rms 	App, batch use	Installer	rms01user- alias	
			retail_install er	<reim batch<br="">user alias></reim>	<reim batch<br="">user name></reim>	App, batch use	Installer	reimbat- alias	
			retail_install er	<ldap- ALIAS></ldap- 	cn=rpm.ad min,cn=Use rs,dc=us,dc =oracle,dc= com	LDAP user use	Installer	LDAP_ALI AS	
ReIM app	JAVA	<weblogic domain<br="">home>/retail/<deployed reim app name>/config</deployed </weblogic>							Each alias must be unique
			<installed app name, ex: reim14></installed 	<reim weblogic user alias></reim 	<reim weblogic user name></reim 	App use	Installer	weblogic- alias	
			<installed app name, ex: reim14></installed 	<rms shema<br="">user alias></rms>	<rms shema user name></rms 	App, batch use	Installer	rms01user- alias	

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
			<installed app name, ex: reim14></installed 	<reim webservice validation user alias></reim 	<reim webservice validation user name></reim 	App use	Installer	reimwebser vice-alias	
			<installed app name, ex: reim14></installed 	<reim batch<br="">user alias></reim>	<reim batch<br="">user name></reim>	App, batch use	Installer	reimbat- alias	
			<installed app name, ex: reim14></installed 	<ldap- ALIAS></ldap- 	cn=REIM.A DMIN,cn= Users,dc=u s,dc=oracle, dc=com	LDAP user use	Installer	LDAP_ALI AS	
	JAVA	<retail_home>/orpatch/co nfig/javaapp_reim</retail_home>							Each alias must be unique
			retail_install er	<reim weblogic user alias></reim 	<reim weblogic user name></reim 	App use	Installer	weblogic- alias	
			retail_install er	<rms shema<br="">user alias></rms>	<rms shema user name></rms 	App, batch use	Installer	rms01user- alias	
			retail_install er	<reim webservice validation user alias></reim 	<reim webservice validation user name></reim 	App use	Installer	reimwebser vice-alias	
			retail_install er	<reim batch<br="">user alias></reim>	<reim batch<br="">user name></reim>	App, batch use	Installer	reimbat- alias	
			retail_install er	<ldap- ALIAS></ldap- 	cn=REIM.A DMIN,cn= Users,dc=u s,dc=oracle, dc=com	LDAP user use	Installer	LDAP_ALI AS	

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
RESA app	DB credenti al store		Map=resa14 or what you called the app at install time	Many for login and policies					<weblogic domain<br="">home>/config/fmwc onfig/jps-config.xml has info on the credential store. This directory also has the domain cwallet.sso file. The bootstrap directory under this directory has bootstrap cwallet.sso file.</weblogic>
RESA app	JAVA	<weblogic domain<br="">home>/retail/<deployed resa app name>/config</deployed </weblogic>							Each alias must be unique
			<installed app="" name=""></installed>	<resa weblogic user alias></resa 	<resa weblogic user name></resa 	App use	Installer	wlsalias	
			<installed app name></installed 	<resa schema db user alias></resa 	<rmsdb shema user name></rmsdb 	App use	Installer	Resadb-alias	
			<installed app name></installed 	<resa schema user alias></resa 	<rmsdb shema user name>></rmsdb 	App use	Installer	resa-alias	
	JAVA	<retail_home>/orpatch/co nfig/javaapp_resa</retail_home>							Each alias must be unique

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
			retail_install er	<resa weblogic user alias></resa 	<resa weblogic user name></resa 	App use	Installer	wlsalias	
			retail_install er	<resa schema db user alias></resa 	<rmsdb shema user name></rmsdb 	App use	Installer	Resadb-alias	
	JAVA	<retail_ home>/orpatch/config/ja vaapp_rasrm</retail_ 							Each alias must be unique
			retail_install er	<alloc weblogic user alias></alloc 	<alloc weblogic user name></alloc 	App use	Installer	weblogic- alias	
Alloc app	DB credenti al store		Map=alloc 14 or what you called the app at install time	Many for login and policies					<weblogic domain<br="">home>/config/fmwc onfig/jps-config.xml has info on the credential store. This directory also has the domain cwallet.sso file. The bootstrap directory under this directory has bootstrap cwallet.sso file.</weblogic>
Alloc app	JAVA	<weblogic domain<br="">home>/retail/config</weblogic>							Each alias must be unique

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
			<installed app name></installed 	<alloc weblogic user alias></alloc 	<alloc weblogic user name></alloc 	App use	Installer	weblogic- alias	
			<installed app name></installed 	<rms schema user alias></rms 	<rms schema user name></rms 	App use	Installer	dsallocAlias	
			<installed app name></installed 	<alloc batch<br="">user alias></alloc>	<system_ ADMINIST RATOR></system_ 	Batch use	Installer	alloc14	
	JAVA	<retail_ home>/orpatch/config/ja vaapp_alloc</retail_ 							Each alias must be unique
			retail_install er	<alloc weblogic user alias></alloc 	<alloc weblogic user name></alloc 	App use	Installer	weblogic- alias	
			retail_install er	<rms schema user alias></rms 	<rms schema user name></rms 	App use	Installer	dsallocAlias	
			retail_install er	<alloc batch<br="">user alias></alloc>	<system_ ADMINIST RATOR></system_ 	Batch use	Installer	alloc14	
	JAVA	<retail_ home>/orpatch/config/ja vaapp_rasrm</retail_ 							Each alias must be unique
			retail_install er	<alloc weblogic user alias></alloc 	<alloc weblogic user name></alloc 	App use	Installer	weblogic- alias	

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
SIM app	DB credenti al store		Map=oracle. retail.sim	Aliases required for SIM app use					<pre><weblogic domain="" home="">/config/fmwc onfig/jps-config.xml has info on the credential store. This directory also has the domain cwallet.sso file.</weblogic></pre>
	JAVA	<weblogic domain<br="">home>/retail/<deployed sim app name>/batch/resources/c onf</deployed </weblogic>	oracle.retail. sim	<sim batch<br="">user alias></sim>	<sim batch<br="">user name></sim>	App use	Installer	BATCH- ALIAS	
	JAVA	<weblogic domain<br="">home>/retail/<deployed sim app name>/wireless/resources /conf</deployed </weblogic>	oracle.retail. sim	<sim wireless user alias></sim 	<sim wireless user name></sim 	App use	Installer	WIRELESS- ALIAS	
RETL	JAVA	<retl home>/etc/security</retl 	n/a	<target application user alias></target 	<target application db userid></target 	App use	Manual	retl_java_rm s01user	User may vary depending on RETL flow's target application
RETL	DB	<retl home="">/.wallet</retl>	n/a	<target application user alias></target 	<target application db userid></target 	App use	Manual	<db>_<user ></user </db>	User may vary depending on RETL flow's target application
RIB	JAVA	<ribhome DIR>/deployment- home/conf/security</ribhome 							<app> is one of aip, rfm, rms, rpm, sim, rwms, tafr</app>
JMS			jms<1-5>	<jms user<br="">alias> for jms<1-5></jms>	<jms user<br="">name> for jms<1-5></jms>	Integra- tion use	Installer	jms-alias	

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
WebLogic			rib- <app>- app-server- instance</app>	<rib-app weblogic user alias></rib-app 	<rib-app weblogic user name></rib-app 	Integra- tion use	Installer	weblogic- alias	
Admin GUI			rib- <app>#web- app-user- alias</app>	<rib-app admin gui user alias></rib-app 	<rib-app admin gui user name></rib-app 	Integra- tion use	Installer	admin-gui- alias	
Application			rib- <app>#user- alias</app>	<app weblogic user alias></app 	<app weblogic user name></app 	Integra- tion use	Installer	app-user- alias	Valid only for aip, rpm, sim
DB			rib- <app>#app- db-user-alias</app>	<rib-app database schema user alias></rib-app 	<rib-app database schema user name></rib-app 	Integra- tion use	Installer	db-user- alias	Valid only for rfm, rms, rwms, tafr
Error Hospital			rib- <app>#hosp -user-alias</app>	<rib-app error hospital database schema user alias></rib-app 	<rib-app error hospital database schema user name></rib-app 	Integra- tion use	Installer	hosp-user- alias	
RFI	Java	<rfi-home>/retail- financial-integration- solution/service-based- integration/conf/security</rfi-home>							
			<installed app name></installed 	rfiAppServe rAdminServ erUserAlias	<rfi weblogic user name></rfi 	App use	Installer	rfiAppServe rAdminServ erUserAlias	
			<installed app name></installed 	rfiAdminUi UserAlias	<orfi admin user></orfi 	App use	Installer	rfiAdminUi UserAlias	
			<installed app name></installed 	rfiDataSourc eUserAlias	<orfi schema user name></orfi 	App use	Installer	rfiDataSourc eUserAlias	

Retail app	Wallet type	Wallet loc	Wallet partition	Alias name	User name	Use	Create by	Alias Example	Notes
			<installed app name></installed 	ebsDataSour ceUserAlias	<ebs schema user name></ebs 	App use	Installer	ebsDataSour ceUserAlias	
			<installed app name></installed 	omÅddress	<from email address></from 	App use	Installer	smtpMailFr omAddress Alias	

Appendix: Database Parameter File

######### **** # Copyright (c) 2014 by Oracle Corporation # Oracle 19.x.0.0 Parameter file # NOTES: Before using this script: # 1. Change <datafile path>, <admin path>, <utl file path>, <diag path> and <hostname> values as appropriate. # 2. Replace the word SID with the database name. # # 3. Size parameters as necessary for development, test, and production environments. _____ # _____ *.audit file dest=full path of audit dir *.audit trail='db' *.compatible='19.0.0.0' *.control files='full path of controlfile 1','full path of controlfile 2' ***** # Memory Settings: # xxxM = Some reasonable starting value for your environment. **** *.db block size=xxxM *.db cache_size=xxxM *.java pool size=xxxM *.memory target=xxxM *.pga aggregate target=xxxM *.shared pool size=xxxM *.streams pool size=xxxM **** *.db block size=8192 *.db domain='' *.db name='dbName' *.diagnostic dest='full path of diag dir' *.enable pluggable database=true|false *.fast start mttr target=900 *.nls calendar='GREGORIAN' *.nls date format='DD-MON-RR' *.nls language='AMERICAN' *.nls numeric characters='.,' *.nls sort=BINARY *.open cursors=900 *.os authent prefix='' *.plsql optimize level=2 *.processes=2000 *.query_rewrite_enabled='true' *.remote dependencies mode='SIGNATURE' *.remote login passwordfile='EXCLUSIVE' *.remote os authent=true *.sec case sensitive logon=false *.undo tablespace='UNDOTBS1'

Appendix: Installation Order

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, 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 Active Retail Intelligence (ARI)
- 5. Oracle Retail Warehouse Management System (RWMS)
- 6. Oracle Retail Invoice Matching (ReIM)
- 7. Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Because RIB is installed after RPM, make a note of the URL you enter. To change the RIBforRPM provider URL after you install RIB, edit the remote_service_locator_info_ribserver.xml file.

- 8. Oracle Retail Allocation
- 9. Oracle Retail Mobile Merchandising (ORMM)
- 10. Oracle Retail Central Office (ORCO)
- 11. Oracle Retail Returns Management (ORRM)
- **12.** Oracle Retail Back Office (ORBO)
- 13. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the RIB provider URL. Because RIB is installed after SIM, make a note of the URL you enter. To change the RIB provider URL after you install RIB, edit the remote_service_locator_info_ribserver.xml file.

- 14. Oracle Retail Predictive Application Server (RPAS)
- 15. Oracle Retail Demand Forecasting (RDF)
- **16.** Oracle Retail Category Management (RCM)
- 17. Oracle Retail Replenishment Optimization (RO)
- 18. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
- **19.** Oracle Retail Regular Price Optimization (RPO)
- 20. Oracle Retail Merchandise Financial Planning (MFP)
- 21. Oracle Retail Size Profile Optimization (SPO)

- **22.** Oracle Retail Assortment Planning (AP)
- 23. Oracle Retail Item Planning (IP)
- 24. Oracle Retail Item Planning Configured for COE (IP COE)
- 25. Oracle Retail Advanced Inventory Planning (AIP)
- 26. Oracle Retail Analytics
- 27. Oracle Retail Advanced Science Engine (ORASE)
- 28. Oracle Retail Integration Bus (RIB)
- **29.** Oracle Retail Service Backbone (RSB)
- 30. Oracle Retail Financial Integration (ORFI)
- 31. Oracle Retail Point-of-Service (ORPOS)
 - Oracle Retail Mobile Point-of-Service (ORMPOS) (requires ORPOS)
- 32. Oracle Retail Markdown Optimization (MDO)
- **33.** Oracle Retail Clearance Optimization Engine (COE)
- **34.** Oracle Retail Analytic Parameter Calculator for Markdown Optimization (APC-MDO)
- **35.** Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
- 36. Oracle Retail Macro Space Planning (MSP)

The Oracle Retail Enterprise suite includes Macro Space Planning. This can be installed independently of and does not affect the installation order of the other applications in the suite. If Macro Space Planning is installed, the installation order for its component parts is:

- Oracle Retail Macro Space Management (MSM)
- Oracle Retail In-Store Space Collaboration (ISSC) (requires MSM)
- Oracle Retail Mobile In-Store Space Collaboration (requires MSM and ISSC)