Oracle[®] Retail Store Inventory Management Installation Guide Release 13.0.6 E39343-01

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Oracle® Retail Store Inventory Management Installation Guide, Release 13.0.6

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Oracle Retail Store Inventory Management Installation Guide, Release 13.0.6

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 new Applications Release Online Documentation CD available on My Oracle Support and www.oracle.com. 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).

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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

Related Documents

For more information, see the following documents in the Oracle Retail Store Inventory Management Release 13.0.6 documentation set:

Oracle Retail Store Inventory Management Release Notes

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, 13.0) or a later patch release (for example, 13.0.6). If you are installing the base release and additional patch and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

Oracle Retail Documentation on the Oracle Technology Network

Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following Web site: http://www.oracle.com/technology/documentation/oracle_retail.html

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this Web site within a month after a product release.

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

Preinstallation Tasks

Patch Contents

Patch releases include all defect fixes that have been released through bundled hot fix releases since the last patch release. Patch releases may also include new defect fixes and enhancements that have not previously been included in any bundled hot fix release. This patch release contains all fixes from the following bundled hot fix releases:

- SIM 13.0.5.1
- SIM 13.0.5.2
- SIM 13.0.5.3
- SIM 13.0.5.4

Check for the Current Version of the Installation Guide

Corrected versions of Oracle Retail installation guides may be published whenever critical corrections are required. For critical corrections, the rerelease of an installation guide may not be attached to a release; the document will simply be replaced on the Oracle Technology Network Web site.

Before you begin installation, check to be sure that you have the most recent version of this installation guide. Oracle Retail installation guides are available on the Oracle Technology Network at the following URL:

http://www.oracle.com/technology/documentation/oracle_retail.html

An updated version of an installation guide is indicated by 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 an installation guide with part number E123456-**01**.

If a more recent version of this installation guide is available, that version supersedes all previous versions. Only use the newest version for your 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 sparcity
- 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 Database Server Requirements

General Requirements for a database server running SIM include:

Supported on 10gR2 and 11gR2	Versions Supported
Database Server OS	OS certified with Oracle Database 10gR2 and 11gR2 Enterprise Edition. Options are:
	• AIX 5.3
	 AIX 6.1 (Actual hardware or LPARs)
	 Solaris 10 Sparc (Actual hardware or Logical Domains)
	 Oracle Linux 4 Update 5 for x86-64 (Actual hardware or Oracle virtual machine)
	 Red Hat Enterprise Linux 4 Update 5 (RHEL 4.5) for x86- 64 (Actual hardware or Oracle virtual machine)
	 Oracle Linux 5 for x86-64 (Actual hardware or Oracle virtual machine)
	 Red Hat Enterprise Linux 5 (RHEL 5) for x86-64 (Actual hardware or Oracle virtual machine)
	 HP-UX 11.23 (Integrity 64-bit)
	 HP-UX 11.31 (Integrity 64-bit)
Database Server (10gR2)	Oracle Database 10g Release 2 Enterprise Edition (10.2.0.5 patchset required) with the following components:
	 Oracle Database 10g
	Oracle Partitioning
	Oracle Net Services
	 Oracle Call Interface (OCI)
	Oracle Programmer
	 Oracle XML Development Kit
	 Companion CD
	Patches:
	 10.2.0.5 patchset: 8202632
	Others components:
	 Perl compiler 5.0 or later
	 X-Windows interface
Database Server (11gR2)	Oracle Database 11g Release 2 (11.2.0.3) Enterprise Edition with the following components:
	Oracle Partitioning
	 Example CD
	Patches:
	 13036331 ORA-1031 "insufficient privileges" when granting privileges multiple times
	Others components:
	 Perl compiler 5.0 or later

X-Windows interface

Check Application Server Requirements

General requirements for an application server capable of running the SIM application include:

Supported on	Versions Supported
Application Server OS	OS certified with Oracle Application Server 10g 10.1.35. Options are:
	• AIX 5.3
	 AIX 6.1 (Actual hardware or LPARs)
	 Solaris 10 Sparc (Actual hardware or Logical Domains)
	 Oracle Linux 4 Update 5 for x86-64 (Actual hardware or Oracle virtual machine)
	 Red Hat Enterprise Linux 4 Update 5 (RHEL 4.5) for x86-64 (Actual hardware or Oracle virtual machine)
	 Oracle Linux 5 for x86-64 (Actual hardware or Oracle virtual machine)
	 Red Hat Enterprise Linux 5 (RHEL 5) for x86-64 (Actual hardware or Oracle virtual machine)
	 HP-UX 11.23 (Integrity 64-bit)
	 HP-UX 11.31 (Integrity 64-bit)
Application Server	 Oracle Application Server 10g 10.1.3.5 with Java 5.x or Java 6.x

Note: This release of SIM is only supported in a managed OC4J instance as part of OracleAS 10g. It is not supported on OC4J standalone.

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 Infrastructure Server 10g server has been installed. Verify the OAS HTTP server used to launch SIM has been registered with the Oracle Single Sign-On server and the mod_osso module has been enabled within the HTTP Server's configuration.

For more details on this, see the Oracle Single Sign-On Administration Guide.

Check Directory Server Requirements

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

• Oracle Internet Directory 10.1.2.2

There are no known limitations that would prevent SIM from running against any LDAP 3.0-compliant directory server.

Check Third-Party Software Dependencies

- Oracle Business Intelligence Publisher Enterprise 10.1.3.4.x
- Oracle Retail Wireless Foundation Server provided by Wavelink 4.x

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768
Processor	minimum1GHz
Memory	minimum of 512MBytes
Networking	Intranet with at least 10Mbps data rate
JAVA	JRE 1.6.+
Browser	Microsoft Internet Explorer version 8.0 or 9.0
	Mozilla Firefox 10.0.0.6+
	The browser is used to launch the Java WebStart client.

Check Client PC and Web Browser Requirements

Supported Oracle Retail Products

Integrates With	Integrates Using
RMS 13.0.6	RIB 13.0.6, RSL 13.0.6, or Batch
ReSA 13.0.6	Batch
ReIM 13.0.6	RIB (via RMS) 13.0.6
RPM 13.0.6	RIB 13.0.6, RSL 13.0.6, or Batch
RWMS 13.0.6	RIB 13.0.6
ORPOS 13.0.6	Web Services (item inventory inquiry) and ReSA (transactions)

RAC and Clustering

Real Application Cluster Database and Oracle Application Server Clustering for SIM has been validated to run only on Linux.

The Oracle Retail products have been validated against a 10.2.0.3 RAC database. It is important to note that the OCI JDBC driver is not supported by SIM. Instead, the THIN driver should be used. To properly load balance with multiple database servers, the JDBC connection string URL should look like this example, with an ADDRESS entry in the ADDRESS_LIST for each database server available:

```
jdbc:oracle:thin:@(DESCRIPTION =
  (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = dbserver1)(PORT = 1521))
    (ADDRESS = (PROTOCOL = TCP)(HOST = dbserver2)(PORT = 1521))
    (LOAD_BALANCE = yes))
  (CONNECT_DATA =(SERVICE_NAME = simprod01)))
```

This configuration does not provide transparent RAC failover. If a DB connection for one address is lost, the application will get a system exception, and the next time it attempts to access the database it will access one of the other addresses.

Clustering for Oracle Application Server 10.1.3 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that a VirtualHost be added to the OAS 10.1.3 reflecting the Virtual Server Name configured in the load balancer. It is also suggested that the OC4J select method be configured to prefer the use of local OC4J instances. The Oracle Retail products are currently not validated to be distributable at the application level in an OAS 10.1.3 cluster.

References for Configuration:

- Oracle® Application Server High Availability Guide 10g Release 3 (10.1.3) Part Number B15977-02
- Oracle® Application Server High Availability Guide 10g Release 2 (10.1.2) Part Number B14003-05
- Oracle® Database Oracle Clusterware and Oracle Real Application Clusters Administration and Deployment Guide 10g Release 2 (10.2) Part Number B14197-03

Database Installation Tasks

Before you apply the SIM 13.0.6 patch:

- Make a backup of all your objects and database schema.
- Check that SIM 13.0.0 is installed and has been patched to 13.0.5.
- Review the enclosed SIM 13.0.6 Patch Release Notes.

Before copying over any files:

- Note whether customizations have been made to the module. If so, then the customizations must be reapplied over the new version of the module (or the fix may need to be applied to the custom version of the code).
- Copy the original files to a different directory before copying over them in case they need to be referred to at a later date.

Note: These instructions refer to SIM13DEV as the Oracle owning schema. Use your actual SIM schema user when running the patch scripts.

If you have applied bundled hot fixes since the 13.0.5 patch, you may see unique constraint errors when running the runall.sql scripts. The errors can most likely be ignored. Review the comments contained in the below mentioned runall.sql scripts for information about which scripts pertain to which bundled hot fixes.

Copy from the CD Directory

- 1. Copy the sim-db-patch.zip file from the CD /dbserverunix directory to a newly created staging directory on your UNIX server. This directory will be referred to as STAGING_AREA for the remainder of this chapter.
- 2. Shut down your server and any clients that might be connected to it.
- **3.** Unzip the file by entering: unzip sim-db-patch.zip

Alter SIM Tables

1. Set the NLS_LANG environment variable.

Example: export NLS_LANG=AMERICAN_AMERICA.UTF8

- 2. Change directories to STAGING_AREA/sim/dbschema/patch.
- Log into sqlplus as SIM13DEV and run the following command: SQL> @runall.sql
- **4.** Check runall.log for any errors.

Update Stored Procedures for SIM

- 1. Change directories to STAGING_AREA/sim/database/patch/stored_procedures.
- Log into sqlplus as SIM13DEV and run the following command: SQL> @runall.sql
- **3.** Check runall.log for any errors.

Application Installation

Before proceeding you must install Oracle Application Server 10g 10.1.3.5 listed in Chapter 1 of this document. The SIM application is deployed to an OC4J instance within the OracleAS 10g installation. It is assumed Oracle Database has already been configured and loaded with the appropriate SIM schema for your installation.

Create a New OC4J Instance and Group for SIM

You can skip this section if you are redeploying to an existing OC4J group in Oracle Application Server 10.1.3.5.

The SIM application must be deployed to its own dedicated OC4J group. For instructions on how to create a new OC4J group and instance, see Adding and Deleting OC4J Instances in the Reconfiguring Application Server Instances chapter of the *Oracle Application Server Administrator's Guide*.

- 1. Log into the server which is running your OracleAS 10g installation. Set your ORACLE_HOME environment variable to point to this installation.
- **2.** Choose a name for the new OC4J instance and group.

Example: sim-oc4j-instance

Example: sim_group

Create this OC4J instance and group as documented in the Oracle Application Server Administrator's Guide.

Example: \$ORACLE_HOME/bin/createinstance -instanceName sim-oc4j-instance -groupName sim_group

When prompted for the oc4jadmin password, provide the same administrative password you gave for the Oracle Application Server installation. All OC4J instances running Oracle Retail applications must have the same oc4jadmin password.

3. (This step is required only if RIB is installed on AIX.) If you will be integrating SIM with RIB, be aware that RIB requires an upgrade of the Java version when running on AIX. The version must be at least JRE version 1.5 SR7. If your RIB is installed on AIX, then you need to modify the \$ORACLE_HOME/opmn/conf/opmn.xml to upgrade the Java version that SIM uses. Locate the OC4J instance you just created for SIM, and add or modify the java-bin within the start-parameters section.

```
Example:
```

- •••
- </process-type>
- (Linux only) Increase memory for the new OC4J instance by modifying \$ORACLE_HOME/opmn/conf/opmn.xml. Locate the OC4J instance you just created, and add the -XX:PermSize=256m -XX:MaxPermSize=512m -Xms256m -Xmx256m options to the start-parameters section.

5. Force OPMN to reload the configuration file.

Example: \$ORACLE_HOME/opmn/bin/opmnctl reload

6. Start the OC4J group. You can do this through the Enterprise Manager web interface, or on the command line using the opmnctl utility.

Example: \$ORACLE_HOME/opmn/bin/opmnctl @cluster startproc ias-component=sim_group

7. Verify that the OC4J group was fully started. If you are using the Enterprise Manager web interface, the instance should have a green arrow indicating that it is running. On the command line, verify that the instance has a status of Alive.

Example: \$ORACLE_HOME/opmn/bin/opmnctl status

If you are unable to start the OC4J instance after several attempts, try increasing the startup timeouts in ORACLE_HOME/opmn/conf/opmn.xml. If that does not help, consult the Oracle Application Server documentation for further assistance.

Configure Apache for JNLP Files

If this is the first WebStart application that is being installed in the HTTP server, you need to configure the **mime.types** file with the jnlp file type. If you are using the Apache distribution that is included with OracleAS, this file can be found under ORACLE_HOME/Apache/Apache/conf. Add the following line to the file:

application/x-java-jnlp-file jnlp

Restart the Apache server for this change to take effect. If you do not add this line then jnlp files are served as plain text and you cannot launch the application.

```
Example: $ORACLE_HOME/opmn/bin/opmnctl restartproc process-type=HTTP_Server
```

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

For instructions on how to restart the Application Server, see the *opmnctl Commands* chapter of the *Oracle*® *Process Manager and Notification Server Administrator's Guide*.

Example:

\$ORACLE_HOME/opmn/bin/opmnctl stopall

\$ORACLE_HOME/opmn/bin/opmnctl startall

Clustered Installations—Preinstallation Steps

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

If you are installing the SIM application to a clustered Oracle Application Server environment, there are some extra steps you need to take before running the application installer. In these instructions, the application server node whose ORACLE_HOME you used for the SIM installer is referred to as the *master node*. All other nodes are referred to as the *remote nodes*.

- On each remote node, create a new sim-home directory in the following location: \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/sim-home (The directory must be called "sim-home.")
- Copy the sim-home.zip file into the new sim-home directory.
 \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/sim-home/sim-home.zip

Note: The sim-home.zip file can be found inside the sim13application.zip under sim/application/sim13/sim-home.zip.

3. Unzip the sim-home.zip file into the sim-home directory.

Expand the SIM Application Distribution

 Log into the UNIX server as the user who owns the OracleAS 10g installation. Create a new staging directory for the SIM application distribution (sim13application.zip). There should be a minimum of 640 MB disk space available for the application installation files.

Example: \$ORACLE_HOME/j2ee/sim-oc4j-instance/sim-staging

This location is referred to as INSTALL_DIR for the remainder of this chapter.

2. Copy sim13application.zip to <INSTALL_DIR> and extract its contents.

Run the SIM Application Installer

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

- **1.** If you are installing to a clustered Application Server, perform the preinstallation tasks as described in the Clustered Installations Preinstallation Steps section above.
- 2. Expand the sim13application.zip distribution into <INSTALL_DIR>.
- **3.** Set the ORACLE_HOME and JAVA_HOME environment variables. ORACLE_HOME should point to your OracleAS installation. JAVA_HOME should point to \$ORACLE_HOME/jdk.
- **4.** 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.
- 5. Verify that the OC4J instance that you intend to install SIM into 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: See "Appendix: SIM Application Installer Screens" for details on every screen and field in the application installer.

- **7.** If you are installing to a clustered Application Server, perform the post-install tasks as described in the Clustered Installations Post-Installation Steps section below.
- **8.** Sign the sim-config.jar file. (See instructions below.)
- **9.** Copy the sim-home directory if you wish to run batch scripts from a location outside of the ORACLE_HOME. This step is optional. (See instructions below.)

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 Oracle Application Server environment, there are some extra steps you need to take to complete the installation. In these instructions, the application server node whose ORACLE_HOME you used for the SIM installer is referred to as the *master node*. All other nodes are referred to as the *remote nodes*.

1. Stop all of the SIM OC4J instances in the group.

```
Example: $ORACLE_HOME/opmn/bin/opmnctl @cluster stopproc ias-component=sim_group
```

2. On each remote node (but not on the master node), move or delete the sim-home directory.

cd \$ORACLE_HOME/j2ee/ <sim-oc4j-instance></sim-oc4j-instance>
mv sim-home sim-home.old

- For each remote node, copy the entire sim-home directory from the master node to the remote node under the same path as on the master node. (\$ORACLE_HOME/j2ee/<sim-oc4j-instance>/sim-home)
- **4.** On each remote node, the following files need to be modified so that the correct host name is used:
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/applications/sim-client/simclient/sim_config.jnlp
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/simhome/files/prod/config/JnlpLaunch.properties
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/simhome/files/prod/config/jndi.cfg
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/simhome/files/prod/config/client_master.cfg
- 5. On each remote node, the client_master.cfg file needs to be modified so that the correct host name is used. The client_master.cfg file is located inside the sim-config.jar file under the \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/applications/sim-client/sim-client/lib directory.

Example:

```
cd $ORACLE_HOME/j2ee/<sim-oc4j-
instance>/applications/sim-client/sim-client/lib
cp sim-config.jar sim-config.jar.old
mkdir temp
cd temp
jar xf ../sim-config.jar
Modify the host name in the client_master.cfg file
jar uf ../sim-config.jar client_master.cfg
```

6. Start all of the SIM OC4J instances in the group.

Example: \$ORACLE_HOME/opmn/bin/opmnctl @cluster startproc ias-component=sim_group

7. On every node, sign the sim-config.jar file. (See instructions below.)

Sign the SIM Client Configuration Jar File

There is some client-side configuration that the installer performs which results in a modified sim-config.jar file after installation. Because of this, the jar file cannot be presigned by Oracle. The user must sign this jar file after the installer has completed.

To create an example key called "foo", the following command can be run:

\$JAVA_HOME/bin/keytool-genkey-alias foo

This command prompts you for a keystore password along with organizational info.

Once complete, the keystore alias resides in the default location in the user's home directory (ie ~/.keystore). If you get an error message saying that the keystore has been tampered with, try renaming or deleting the ~/.keystore file and running the keytool command again.

The sim-config.jar is located within the deployed client application: \$ORACLE_HOME/j2ee/<oc4j-instance-name>/applications/sim-client/simclient/lib/sim-config.jar

To sign the sim-config.jar file using your alias and keystore, run the jarsigner utility.

Example: \$JAVA_HOME/bin/jarsigner sim-config.jar foo

Consult the "jarsigner" documentation from Sun for further information on the JAR signing process.

Review and Configure Oracle Single Sign-On

Skip this section if you are not using Single Sign-On for user identification and authentication.

Single Sign-On is applicable only to the JnlpLaunch Servlet. The JnlpLaunch Servlet is a dynamically protected application. The JnlpLaunch Servlet causes the SIM client application to execute under the SSO user name with a temporary password.

Note: The JnlpLaunch servlet may be configured for either an SSO or non-SSO environment.

HTTP Server configuration requirements: The HTTP Server must be registered with the Oracle Single Sign-On server and the mod_osso module enabled. The registration process typically involves running the ssoreg.sh script at the OSSO server installation and copying the output osso.conf file to the HTTP Server. This process is documented in the Oracle Single Sign-On administration documentation.

JnlpLaunch requirements: The JnlpLaunch Servlet uses the configuration file, "JnlpLaunch.properties", to control its behavior. Due to security considerations, this file must not be published or readable to the general public.

JnlpLaunch.properties has the following configuration entries that apply to Single Sign-On:

- secret.key Used to create the temporary password, this property should contain a random string. If JnlpLaunch is deployed in a different JVM than the SIM Server EJBs, this string must be an exact match between the JnlpLaunch Servlet and the one available to the SIM EJBs. For security purposes, each separate instance of the SIM application (for example, test versus development) should have a different secret key.
- user.validation.timeout Number of seconds the SIM Server uses to determine if a temporary password is still valid.

 osso.used – Determines if the JnlpLaunch Servlet will throw a 499 error when an unathenticated user has been detected. This property must be set to 'true' if Oracle Single Sign-On is used and 'false' if not.

The JnlpLaunch.properties file is initialized by the SIM installer and should contain valid entries for SSO when the "Enable Single Sign-On in SIM?" prompt was answered by a 'Y' or 'Yes'. However, an administrator may want to alter the user.validation.timeout or other property after the initial installation.

SIM Batch Scripts

The SIM application installer places the SIM batch programs with the rest of the SIM application files under \$ORACLE_HOME/j2ee/<oc4j-instance-name>/sim-home.

The batch programs can be run from a different location if you cannot run them from under the application server ORACLE_HOME. To install the batch files in a different location just copy the entire \$ORACLE_HOME/j2ee/<oc4j-instance-name>/sim-home directory to the appropriate destination.

The sim-home is assumed to be located on the same server as the application server. If you copy the sim-home 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 sim-home/batch-config/log4j.xml.

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 C of this document for instructions on silent mode.

See Appendix E of this document 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.

Oracle Configuration Manager

The Oracle Retail OCM Installer packaged with this release installs the latest version of OCM.

The following document is available through My Oracle Support (formerly MetaLink). Access My Oracle Support at the following URL:

https://metalink.oracle.com

Oracle Configuration Manager Installer Guide (Doc ID: 835024.1)

This guide describes the procedures and interface of the Oracle Retail Oracle Configuration Manager Installer that a retailer runs near the completion of its installation process.

OCM Documentation Link

http://www.oracle.com/technology/documentation/ocm.html

Manual Deployment Option

Skip this section if you chose the default option of allowing the installer to complete installation to the application server.

The installer includes the option to configure the application locally and skip deployment to the application server. If this option is chosen, the installer makes the configured application files available under <INSTALL_DIR>/sim/application/sim13/configured-output/.

If you chose this installer option, you can complete the installation by following these steps:

- Inspect and then overlay files from <INSTALL_DIR>/sim/application/sim13/configured-output into your application server installation.
- 2. Deploy the SIM EAR file using the Enterprise Manager web interface. The configured EAR file is located at <INSTALL_DIR>/sim/application/sim13/configured-output/sim.ear. When deploying the EAR file, you should provide the same application name you gave to the installer. This value was stored in the <INSTALL_DIR>/sim/application/ant.install.properties file by the installer for later reference.
- Deploy the client WAR file to the application server using the Enterprise Manager web interface. The configured WAR file is located at <INSTALL_DIR>/sim/application/sim13/configured-output/sim-client.war.
- **4.** Start the Wavelink server. The start file for Wavelink is located at: \$ORACLE_HOME/j2ee/<oc4j-instance-name>/sim-home/wavelink/bin/wavelink-startup.sh

Backups Created by Installer

The SIM application installer backs up the sim-home directory if it finds a previous installation of SIM. The backups are made by adding a suffix to the file or directory with a timestamp. This is done to prevent the removal of any custom changes you might have. These backup directories can be safely removed without affecting the current installation.

Example: sim-home-backup-200708171550

Test the SIM Application

After the application installer completes and you have signed the sim-config.jar 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: http://myhost:7777/sim-client/ launch?template=sim_jnlp_template.vm

If after you log in you receive an error message that the timezone is not properly configured for your store, please refer to Configuring SIM Across Time Zones in the *SIM Operations Guide*.

WebHelp Files

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

Starting and Stopping SIM

The startup and shutdown scripts for SIM can be found with the SIM batch scripts in: ORACLE_HOME/j2ee/<oc4j-instance-name>/sim-home/bin/startup.sh

ORACLE_HOME/j2ee/<oc4j-instance-name>/sim-home/bin/shutdown.sh

SIM can also be restarted by using the Enterprise Manager to restart the OC4J instance that contains SIM. However, if you use the Enterprise Manager to restart SIM, the Wavelink server needs to be restarted manually.

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: If you use the Enterprise Manager to restart SIM, then you need to restart the Wavelink server manually.

If you use SIM's startup and shutdown scripts to restart SIM on the command line, then the Wavelink server will also be restarted along with SIM. However, if you use the Enterprise Manager to restart SIM, the Wavelink server is not affected. Thus it needs to be restarted manually once SIM is running again.

The Wavelink server scripts can be found here:

ORACLE_HOME/ j2ee/<oc4j-instance-name>/sim-home/wavelink/bin/wavelink-startup.sh

ORACLE_HOME/ j2ee/<oc4j-instance-name>/sim-home/wavelink/bin/wavelink-shutdown.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 demo license. For multiple sessions or production use, additional licenses need to be obtained.

Please 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 the *SIM Installation Guide*.

Note: For additional information about LDAP configuration please refer to the *SIM Implementation Guide*.

A

Appendix: SIM Configuration Files

This section documents which files are configured by the installers and where you can find them to do manual configuration later.

OC4J Instance Name in startup.sh and shutdown.sh

```
Example: opmnctl startproc process-type=<oc4j-
instance-name>
Example: opmnctl stopproc process-type=<oc4j-
instance-name>
```

Client Codebase, SSO toggle and Provider URL in JnlpLaunch.properties

• The token.sim_provider_url property contains the JNDI provider URL. The URL should have the following format:

token.sim_provider_url=opmn:ormi://<host>:<opmn-req-port>:<oc4j-instance-name>/<sim-app-name>

• The token.sim_download_url property contains the client codebase. The client codebase should have the following format:

token. sim_download_url=http://<host>:<http-port>/<client-context-root>

 To enable/disable SSO in SIM, there are two properties: osso_used=true token.sso_enabled=true

Client Codebase in sim_config.jnlp

The client codebase specified in the sim_config.jnlp file should have the following format:

codebase="http://<host>:<http-port>/<client-context-root>"

Client Codebase in client_master.cfg

The client codebase is used to form the WebHelp URL in the client_master.cfg file.

Example: HELP_BASE_DIR= http://<host>:<httpport>/<client-context-root>/WebHelp

JNDI Details in jndi.cfg

The JNDI properties should have the following format:

NAMING_SERVER_URL=opmn:ormi://<host>:>:<opmnreq-port>:<oc4j-instance-name>/<sim-app-name>

SECURITY_PRINCIPAL=oc4jadmin

SECURITY_CREDENTIALS=<oc4jadmin-password>

JNDI Provider URLs for Other Oracle Retail Applications in jndi_providers.xml

If SIM is integrated with other Oracle Retail applications such as RPM or RMS, then the JNDI providers for those applications must be provided in the jndi_providers.xml file. The format of each URL should be:

Example: url=" opmn:ormi://<host>:<opmn-reqport>:<rpm-oc4j-instance-name>/<rpm-app-name>"

Example: url=" opmn:ormi://<host>:<opmn-reqport>:<rms-oc4j-instance-name>/<rms-app-name>"

RIB JNDI Providers in jndi_providers_ribclient.xml

If SIM is integrated with RIB, then the jndi_providers_ribclient.xml is configured similar to the following.

Example: name="java.naming.provider.url" value="opmn:ormi://<host>:<opmn-req-port>:<rib-simoc4j-instance-name>/<rib-sim-app-name>"

Example: name="java.naming.security.principal" value="oc4jadmin"

Example: name="java.naming.security.credentials" value="<oc4jadmin-password>"

Context Roots for Web Modules in application.xml

The context roots for SIM's WAR file and Web Services WAR file are located in the application.xml inside SIM's EAR file.

```
<application>
<module>
<module
```

Database Information in data-sources.xml

The <connection-pool> and <managed-data-source> elements define the data sources:

```
<connection-pool name="SIM Connection Pool">
    <connection-factory factory-class="oracle.jdbc.pool.OracleDataSource"
        user="sim-schema-user" password="sim-schema-password"
        url="jdbc:oracle:thin:@host:port:sid"/>
</connection-pool>
<managed-data-source login-timeout="30"
        connection-pool-name="SIM Connection Pool"
        jndi-name="jdbc/SimDataSource" name="jdbc/SimDataSource"/>
```

Database Information in batch_db.cfg

SIM's batch scripts use the properties in the batch_db.cfg file to connect to the database. The database properties should have the following format:

URL=jdbc:oracle:thin:@<host>:<port>:<sid>

USER_NAME=<sim-schema-user>

PASSWORD=<sim-schema-password>

RIB and RSL Configuration in integration.cfg

RIB message publishing and RSL calls can be enabled or disabled by setting the ribMessagePublishEnabled and rslCallsEnabled properties respectively.

Examples:

ribMessagePublishEnabled=true

rslCallsEnabled=true

LDAP Details in Idap.cfg

The LDAP settings are found in the ldap.cfg file. They should have the following format:

PRIMARY_LDAP_URL=ldap://<ldap-host>:<ldap-port>

BASE_DN=<ldap-search-base-dn>

APPLICATION_LOGIN=<ldap-search-user-dn>

APPLICATION_PASSWORD=<ldap-search-userpassword>

SIM Log File in sim-home/files/prod/config/log4j.xml

The location of SIM's log file is defined in the log4j.xml. Example:

```
<param name="File"
value="<ORACLE_HOME>/j2ee/<oc4j-instance-name>/sim-home/log/sim.log"/>
```

SIM Batch Script Log File in sim-home/batch-config/log4j.xml

The location of the log file used by SIM batch scripts is defined in the log4j.xml found under the sim-home/batch-config directory. Example:

```
<param name="File"
```

```
value="<ORACLE_HOME>/j2ee/<oc4j-instance-name>/sim-home/log/sim-
batch.log"/>
```

Wireless Server Port in wavelink-startup.sh and wireless_services.cfg

The wireless server port is located in both the wavelink-startup.sh and the wireless_services.cfg.

Example: wireless_port=40002

Example: PORT=40002

DexNex Directories in sim_batch.cfg

The Dexnex file parser imports direct delivery (DSD) information from an EDI flat file produced by a supplier. It uses an input directory to place files for processing and an error directory to place files that fail.

Example:

DEXNEX_INPUT_DIR=<ORACLE_HOME>/j2ee/<ocjinstance-name>/sim-home/files/prod/dexnex/dexnexinput

DEXNEX_ERRORS_DIR=<ORACLE_HOME>/j2ee/<ocjinstance-name>/sim-home/files/prod/dexnex/dexnexerror

Alternate Example:

DEXNEX_INPUT_DIR=<path-to-alternate-simhome>/files/prod/dexnex/dexnex-input

DEXNEX_ERRORS_DIR=<path-to-alternate-simhome>/files/prod/dexnex/dexnex-error

Appendix: SIM Application 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: Application Server Details

🖸 Store Inventory Management 13 Installer - Oracle Retail 🛛 🔲 🗖 🔀		
ORACLE		
Application Server Details		
Hostname	myhost	
The OPMN request port is found i	n ORACLE_HOME/opmn/conf/opmn.xml	
OPMN request port	6004	
OC4J Admin User	oc4jadmin	
OC4J Admin Password	•••••	
😣 Cancel	🔇 Back 📀 Next 🔷 Install	

Fields on this screen:		
Field Title	Hostname	
Field Description	The hostname of the server where the application server is installed.	
Destination	client_master.cfg	
Example	myhost	
Notes	Used by installer scripts to deploy EAR and WAR files and to create default inputs for client codebase and JNDI provider URL.	
Field Title	OPMN request port	
Field Description	The OPMN request port found in \$ORACLE_HOME/opmn/conf/opmn.xml <port local="6100" remote="6200" request="6003"></port>	
Example	6004	
Notes	Used by installer scripts to deploy EAR and WAR files and to create default input for JNDI provider URL.	
Field Title	OC4J Admin User	
Destination	jndi.cfg	
Example	oc4jadmin	
Notes	Used by installer scripts to deploy EAR and WAR files.	
Field Title	OC4J Admin Password	
Field Description	The password of the OC4J Admin User .	
Destination	jndi.cfg	
Notes	Used by installer scripts to deploy EAR and WAR files.	

F

🖸 Store Inventory Management 13 Installer - Oracle Retail 🛛 🔲 🔀		
ORACLE [®]		
Application Deployment Details		
Provide the following details for the SIM application being installed. The default values shown below are examples.		
The OC4J instance(s) for SIM must belong to an OC4J group created specifically for this SIM deployment. This installer will deploy the SIM application into all instances in the group. If you are not clustering the application across multiple OC4J instances then you should have an SIM group with just one member OC4J instance. Do NOT use default_group in this field.		
OC4J Group Name	sim_group	
OC4J Instance Name	sim-oc4j-instance	
Application Deployment Name	sim13	
Client EAR Deployment Name	sim-client	
😡 Cancel	🔇 Back 💽 Next 🐟 Install	

Screen: Application Deployment Details

Field Title	OC4J Group Name
Field Description	Name of the OC4J group that was created for this SIM application. The OC4J instance given in the OC4J Instance Name field should be a member of this group. The installer will deploy the SIM application to all OC4J instances which are members of this group. For this reason, you should not use default_group. A new group dedicated to SIM should be created instead.
Example	sim_group

Field Title	OC4J Instance Name	
Field Description	The name of the OC4J instance to which the SIM application will be deployed.	
Destination log4j.xml, MANIFEST.MF, startup.sh, shutdown.sh		
Example	sim-oc4j-instance	
Field Title	Application Deployment Name	
Field Description	The name that will be used by the application server to identify the SIM application.	
Example	sim13	
Notes	Used by installer scripts to deploy the application and to create default values for JNDI provider URL.	
Field Title	Client EAR Deployment Name	
Field Description	The name that will be used by the application server to deploy the sim-client.ear file.	
Example	sim-client	

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🔀	
ORACLE	
Client Files Details	
Client Context Root	sim-client
😣 Cancel	Seck Next Install

Screen: Client Files Details

Field Title	Client Context Root
Field Description	Context root for sim-client.war.
Destination	client_master.cfg
Example	sim-client
Notes	Used by installer to create default value for Client Codebase URL.

Screen: Client Codebase URL



Field Title	Client Codebase	
Field Description	The HTTP URL that points to the SIM client installation. The URL is made up of the Hostname, the HTTP port, and the Client Context Root.	
Destination	JNLPLaunch.properties, sim_config.jnlp, client_master.cfg	
Example	http://myhost:7777/sim-client	
Notes	The Client Codebase URL must match the Client Context Root from the previous screen.	

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🔀	
ORACLE [®]	
Web Module Details	
Context Root	simweb
Web Services Context Root	sim-ws
😣 Cancel	Sack Next Thistall

Screen: Web Module Details

Field Title	Context Root
Field Description	The context root for sim.war.
Destination	application.xml
Example	simweb
Field Title	Web Services Context Root
Field Description	The context root for sim-ws.war.
Destination	application.xml
Example	sim-ws

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🔀	
ORACLE	
RPM Details	
If SIM will be integrated with RPM t	hen provide the details (Optional).
RPM App Server Host	myhost
RPM Request Port	6004
RPM OC4J Instance Name	rpm-o4cj-instance
RPM Application Name	rpm13
😣 Cancel 🔇 Back 🕢 Next 🐟 Install	

Screen: RPM Details

Field Title	RPM App Server Host	
Field Description	The name of the application server host where the RPM application is installed.	
Destination	jndi_providers.xml	
Example	myhost	
Notes	Used only if integrating SIM with RPM.	

Field Title	RPM Request Port	
Field Description	The OPMN request port for the application server where RPM is intalled. The OPMN request port is found in \$ORACLE_HOME/opmn/conf/opmn.xml <port local="6100" remote="6200" request="6003"></port>	
Destination	jndi_providers.xml	
Example	6004	
Notes	Used only if integrating SIM with RPM.	
Field Title	RPM OC4J Instance Name	
Field Description	The name of the OC4J instance where the RPM application is installed.	
Destination	jndi_providers.xml	
Example	rpm-o4cj-instance	
Notes	Used only if integrating SIM with RPM.	
Field Title	RPM Application Name	
Field Description	The name that will be used by the application server to identify the RPM application.	
Destination	jndi_providers.xml	
Example	rpm13	
Notes	Used only if integrating SIM with RPM.	

Screen: RSLforRMS Details

🗢 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🗖 🔀	
ORACLE	
RSLforRMS Details	
If SIM will be integrated with RSLforRMS then provide the details (Optional).	
RSLforRMS App Server Host	myhost
RSLforRMS Request Port	6004
RSLforRMS OC4J Instance Name	rsl-rms-o4cj-instance
RSLforRMS Application Name	rsI-rsm
🐼 Cancel 🔇 Back 🕢 Next 🖘 Install	

Field Title	RSLforRMS App Server Host	
Field Description	The name of the application server host where the RSLforRMS application is installed.	
Destination	jndi_providers.xml	
Example	myhost	
Notes	Used only if integrating SIM with RSLforRMS.	

Field Title	RSLforRMS Request Port	
Field Description	The OPMN request port for the application server where RSLforRMS is installed. The OPMN request port is found in \$ORACLE_HOME/opmn/conf/opmn.xml <port local="6100" remote="6200" request="6003"></port>	
Destination	jndi_providers.xml	
Example	6004	
Notes	Used only if integrating SIM with RSLforRMS.	
Field Title	RSLforRMS OC4J Instance Name	
Field Description	The name of the OC4J instance where the RSLforRMS application is installed.	
Destination	jndi_providers.xml	
Example	rsl-rms-o4cj-instance	
Notes	Used only if integrating SIM with RSL for RMS.	
Field Title	RSLforRMS Application Name	
Field Description	The name that will be used by the application server to identify the RSLforRMS application.	
Destination	jndi_providers.xml	
Example	rsl-rsm	
Notes	Used only if integrating SIM with RSLforRMS.	

O Store Inventory Manageme	🗢 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🔀	
ORACLE		
RIBforSIM Details		
If SIM will be integrated with RIBfo	rSIM then provide the details (Optional).	
RIBforSIM App Server Host	myhost	
RIBforSIM Request Port	6004	
RIBforSIM OC4J Instance Name	rib-sim-o4cj-instance	
RIBforSIM Application Name	rib-sim	
rib-sim OC4J User	oc4jadmin	
rib-sim OC4J Password	•••••	
🐼 Cancel 🔇 Back 📎 Next 🖘 Install		

Screen: RIBforSIM Details

Field Title	RIBforSIM App Server Host	
Field Description	The name of the application server host where the RIBforSIM application is installed.	
Destination	jndi_providers_ribclient.xml	
Example	myhost	
Notes	Used only if integrating SIM with RIBforSIM.	

Field Title	RIBforSIM Request Port	
Field Description	The OPMN request port for the application server where RIBforSIM is intalled. The OPMN request port is found in \$ORACLE_HOME/opmn/conf/opmn.xml <port local="6100" remote="6200" request="6003"></port>	
Destination	jndi_providers_ribclient.xml	
Example	6004	
Notes	Used only if integrating SIM with RIBforSIM.	
Field Title	RIBforSIM OC4J Instance Name	
Field Description	The name of the OC4J instance where the RIBforSIM application is installed.	
Destination	jndi_providers_ribclient.xml	
Example	rib-sim-o4cj-instance	
Notes	Used only if integrating SIM with RIBforSIM.	
Field Title	RIBforSIM Application Name	
Field Title Field Description	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application.	
Field Title Field Description Destination	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml	
Field Title Field Description Destination Example	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim	
Field Title Field Description Destination Example Notes	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim Used only if integrating SIM with RIBforSIM.	
Field Title Field Description Destination Example Notes	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim Used only if integrating SIM with RIBforSIM.	
Field Title Field Description Destination Example Notes Field Title	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim Used only if integrating SIM with RIBforSIM. rib-sim OC4J User	
Field Title Field Description Destination Example Notes Field Title Field Description	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim Used only if integrating SIM with RIBforSIM. rib-sim OC4J User The OC4J Admin User for the OC4J instance where rib-sim is installed.	
Field Title Field Description Destination Example Notes Field Title Field Description Destination	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim Used only if integrating SIM with RIBforSIM. rib-sim OC4J User The OC4J Admin User for the OC4J instance where rib-sim is installed. jndi_providers_ribclient.xml	
Field Title Field Description Destination Example Notes Field Title Field Description Destination Example	RIBforSIM Application Name The name that will be used by the application server to identify the RIBforSIM application. jndi_providers_ribclient.xml rib-sim Used only if integrating SIM with RIBforSIM. rib-sim OC4J User The OC4J Admin User for the OC4J instance where rib-sim is installed. jndi_providers_ribclient.xml oc4jadmin	

Field Title	rib-sim OC4J Password	
Field Description	The password of the OC4J Admin User for the OC4J instance where rib-sim is installed.	
Destination	jndi_providers_ribclient.xml	
Notes	Used only if integrating SIM with RIBforSIM.	

ORACLE	
JNDI Details	
SIM JNDI Provider URL	mn:ormi://myhost:6004:sim-oc4j-instance/sim13
If SIM will be integrated with R	PM, RMS or RIB, then provide the URLs (Optional).
2	
RPM Provider URL	n:ormi://myhost:6004:rpm-o4cj-instance/rpm13
RSLforRMS Provider URL	mi://myhost:6004:rsl-rms-o4cj-instance/rsl-rsm
RIBforSIM Provider URL	mi://myhost:6004:rib-sim-o4cj-instance/rib-sim

Screen: JNDI Details

Field Title	SIM JNDI Provider URL	
Field Description	JNDI provider URL for the SIM application.	
Destination	jndi.cfg, JnlpLaunch.properties	
Example	opmn:ormi://myhost:6004:sim-oc4j-instance/sim13	
Notes	Confirm the JNDI provider URL, which is constructed based on previous inputs for Hostname, OPMN Request Port, OC4J Instance Name, and Application Deployment Name.	

Field Title	RPM Provider URL	
Field Description	JNDI provider URL for the RPM application.	
Destination	jndi_providers.xml	
Example	opmn:ormi://myhost:6004:rpm-oc4j-instance/rpm13	
Notes	Confirm the JNDI provider URL, which is constructed based on previous inputs for Hostname, OPMN Request Port, OC4J Instance Name, and Application Deployment Name.	
Field Title	RSLforRMS Provider URL	
Field Description	JNDI provider URL for the RSLforRMS application.	
Destination	jndi_providers.xml	
Example	opmn:ormi://myhost:6004:rsl-rms-oc4j-instance/rsl	
Notes	Confirm the JNDI provider URL, which is constructed based on previous inputs for Hostname, OPMN Request Port, OC4J Instance Name, and Application Deployment Name.	
Field Title	RIBforSIM Provider URL	
Field Description	JNDI provider URL for the RIBforSIM application.	
Destination	jndi_providers.xml	
Example	opmn:ormi://myhost:6004:rib-sim-oc4j-instance/rib-sim	
Notes	Confirm the JNDI provider URL, which is constructed based on previous inputs for Hostname, OPMN Request Port, OC4J Instance Name, and Application Deployment Name.	

Screen:	Data	Source	Details
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🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🗖 🔀		
ORACLE		
Data Source Details		
Provide details about the SIM data password that was used in the Da	source. Enter the same schema name and tabase installer.	
See Install Guide for JDBC URL for	nat	
SIM JDBC URL	jdbc:oracle:thin:@myhost:1521:mydatabase	
SIM Schema	sim13user	
SIM Schema 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	batch_db.cfg, data-sources.xml	
Example	jdbc:oracle:thin:@myhost:1521:mydatabase	
	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 = mydatabase)))	

Field Title	SIM Schema	
Field Description	The schema name.	
Destination	batch_db.cfg, data-sources.xml	
Example	sim13user	
Notes	The schema name should match the name you provided when you ran the database schema installer.	
Field Title	SIM Schema Password	
Field Description	The password for the SIM Schema.	
Destination	batch_db.cfg, data-sources.xml	

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🗖 🔀				
ORACLE [®]				
LDAP Directory 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.				
LDAP Server URL	ldap://myhost:389/			
Enter the search base DN. This is a directory entry under which SIM will search for user and store entries				
LDAP Search Base DN	cn=Users,dc=mycompany,dc=com			
Enter the search user DN. SIM will authenticate to the LDAP directory as this entry.				
Search User DN	cn=admin,dc=mycompany,dc=com			
Search User Password	•••••			
😣 Cancel 🔇 Back 🕢 Next 🐟 Install				

Field Title	LDAP Server URL
Field Description	URL for your LDAP directory server. See Appendix D: URL Reference for expected syntax.
Destination	ldap.cfg
Example	ldap://myhost:389
Field Title	LDAP Search Base DN
Field Description	Distinguished name of the LDAP directory entry under which SIM should search for users.
Destination	ldap.cfg
Example	cn=Users,dc=mycompany,dc=com

Field Title	Search User DN	
Field Description	Distinguished name of the user that SIM will use to authenticate to the LDAP directory.	
Destination	ldap.cfg	
Example	cn=admin,dc=mycompany,dc=com	
Field Title	Search User Password	
Field Description	Password for the search user DN.	
Destination	ldap.cfg	

Screen: Wireless Server Details

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🔀		
ORACLE		
Wireless Server Details		
Enter wireless port number. SIM's wireless server will listen for incoming messages from wireless devices on this port.		
SIM Wireless Server Port	40002	
😣 Cancel	🔇 Back 🕢 Next 🐟 Install	

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_services.cfg, wavelink-startup.sh
Example	40002

Screen: Enable SSO in SIM

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🗖 🔀	
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 Cancel Next Install	

Fields on this screen:

Field Title	Enable Single Sign-On in SIM?
Field Description	Configures SIM to enable/disable SSO.
Destination	JnlpLaunch.properties

-

Screen: Manual Deployment Options

🖸 Store Inventory Management 13 Installer - Oracle Retail 💦 🔲 🗖 🔀		
ORACLE		
Manual Deployment Option		
This installer will configure the a proceed with installing the appli filesystem access to the applicat different method, you can choo: phase. The configured files will I has completed.	application and app server files. Then it can cation into the server. If you do not have tion server, or you wish to deploy using a se to have the installer skip the final installation be made available for your use after this installer	
Install files to app server?	Yes. I have write access to the application server.	
	○ No. Configure but do not install the application.	
😣 Cancel	Back Next Install	

Field Title	Install files to app server?
Field Description	If you are running the installer as a user who doesn't have permissions to write to the filesystem under the ORACLE_HOME, then choose "No" to have the installer perform all the configuration within the staging directory but not install any files into the ORACLE_HOME.
Notes	If you choose No, you will need to perform manual steps to complete the installation.

Appendix: Installer Silent Mode

Repeating an Installation Attempt

In addition to the GUI and text interfaces of the installer, there is a silent mode that can be run. This mode is useful if you wish to run a repeat installation without retyping the settings you provided in the previous installation. It is also useful if you encounter errors in the middle of an installation and wish to continue.

The installer runs in two distinct phases. The first phase involves gathering settings from the user. At the end of the first phase, a properties file named ant.install.properties is created with the settings that were provided. Then the second phase begins, where this properties file is used to provide your settings for the installation.

To skip the first phase and re-use the ant.install.properties file from a previous run, follow these instructions:

- **1.** Edit the ant.install.properties file and correct any invalid settings that may have caused the installer to fail in its previous run.
- **2.** Run the installer again with the silent argument.

Example: install.sh silent

Appendix: URL Reference

Both the database schema and application installers ask for several different URLs. These include the following.

JDBC URL for a Database

Used by the Java application and by the installer to connect to the database. Syntax: jdbc:oracle:thin:@<host>:<port>:<sid>

- <host>: hostname of the database server
- ort>: database listener port
- <sid>: system identifier for the database

Example: jdbc:oracle:thin:@myhost:1521:mysid

Format for RAC database:

Example: 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 = mydatabase)))

LDAP Server URL

Used by the Java application to connect to the LDAP directory. Syntax: ldap://<host>:<port>

- <host>: hostname of the directory server
- ort>: LDAP server port

Example: ldap://myhost:389

HTTP URL for a WebStart Client

Used within a web browser to access the application client.

Syntax: http://<host>:<port>/<client-context-root>/ launch?template=sim_jnlp_template.vm

- <host>: hostname of the OracleAS environment
- <port>: HTTP port for the Oracle Http Server (OHS). This can be found in the Listen parameter in the ORACLE_HOME/Apache/Apache/conf/httpd.conf file, or in the output of opmnctl status –l.
- <cli><client-context-root>: The context root for sim-client.war

JNDI Provider URL for an Application

Used by the application client to access the application running in the server. This is also used by other applications for server-to-server calls.

Syntax: opmn:ormi://<host>:<port>:<instance>/<app>

- <host>: hostname of the OracleAS environment.
- <port>: OPMN request port of the OracleAS environment. This can be found in the <ORACLE_HOME>/opmn/conf/opmn.xml file.
- <instance>: Name of the OC4J instance running the application.
- <app>: Deployment name for the application.

Example: opmn:ormi://myhost:6003:sim-oc4j-instance/sim13

Note: The JNDI provider URL can have a different format depending on your cluster topology. Consult the Oracle Application Server documentation for further details.

Deployer URI

The deployer URI is used by the Oracle ANT tasks to deploy an application to an OC4J group. The application installer does not ask the user for this value; it is constructed based on other inputs and written to the ant.install.properties file for input to the installation script. For repeat installations using silent mode, you may need to correct mistakes in the deployer URI.

Note: There are several different formats for the deployer URI depending on your cluster topology. Consult the *Deploying with the OC4J Ant Tasks* chapter of the *OC4J Deployment Guide* for further details.

Syntax (managed OC4J): deployer:cluster:opmn://<host>:<port>/<group>

- <host>: hostname of the OracleAS environment
- <port>: OPMN request port of the OracleAS environment. This can be found in the <ORACLE_HOME>/opmn/conf/opmn.xml file.
- <group>: Name of the OC4J group where the application will be deployed.

Example: deployer:cluster:opmn://myhost:6003/sim_group

Syntax (standalone OC4J):

deployer:oc4j:<host>:<port>

- <host>: hostname of the OracleAS environment
- <port>: RMI port of the OC4J server. This can be found in the ORACLE_HOME/j2ee/home/config/rmi.xml file.

Example: deployer:oc4j:myhost:23791

Appendix: Common Installation Errors

This section provides some common errors encountered during installation.

Unreadable Buttons in the Installer

If you are unable to read the text within the installer buttons, it probably means that your JAVA_HOME is pointed to a pre-1.4.2 JDK. Set JAVA_HOME to a Java development kit of version 1.4.2 or later and run the installer again.

"Unable to get a deployment manager" Message

Symptom:

The application installer quits with the following error message:

[oracle:deploy] Unable to get a deployment manager. [oracle:deploy] [oracle:deploy] This is typically the result of an invalid deployer URI format being supplied, the target server not being in a started state or incorrect authentication details being supplied. [oracle:deploy] [oracle:deploy] More information is available by enabling logging -- please see

the Oracle Containers for J2EE Configuration and Administration Guide for details.

Solution:

This error can be caused by any of the following conditions:

- OC4J instance provided is not running.
- Incorrect OC4J instance name provided.
- Incorrect OC4J administrative username and/or password.
- Incorrect OPMN request port provided.

Make sure that the OC4J instance is running, and then check the **ant.install.properties** file for entry mistakes. Pay close attention to the input.deployer.uri (see Appendix D: URL Reference), input.oc4j.instance, input.admin.user, and input.admin.password properties. If you need to make a correction, you can run the installer again with this file as input by running silent mode (see Appendix C of this document).

"Could not create system preferences directory" Warning

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

checkLockFile0ErrorCode

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.

Keystore Errors When Signing sim-config.jar

Symptom:

keytool error: java.io.IOException: Keystore was tampered with, or password was incorrect.

Solution:

This message may be encountered when you use the keytool utility to create an alias for signing the sim-config.jar file. This usually happens when the alias for which you are generating a key already exists in the keystore file.

Delete or rename the \sim /.keystore file and run the keytool command again. This creates a fresh keystore file.

"Couldn't find X Input Context" Warnings

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:

In GUI mode, the errors tab shows the following error:

java.util.ConcurrentModificationException

at

```
... etc
```

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.

Error while unpacking the ear file

Symptom:

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

07/12/19 10:53:17 Notification ==>Error while unpacking siml3.ear java.util.zip.ZipException: error in opening zip file

Solution:

This is a known bug (BugID 6330834) related to Solaris and NFS in Oracle Application Server 10.1.3.3. Follow the workaround documented for this bug: in the opmn.xml file in \$ORACLE_HOME/opmn/conf add the following parameter to the java-options for the instance you are installing.

-Doc4j.autoUnpackLockCount=-1

After making this change you should reload OPMN, restart the affected OC4J instance(s), and retry the retail application installation.

A Second Login Screen Appears After Single Sign-On Login

If you are using Oracle Single Sign-On, you should not need to enter a SIM username 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 username you're using
- Permissions are not set up correctly for the SSO user in SIM
- SSO is configured wrong 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 SIM *Implementation Guide* for more information on setting up SIM users and using LDAP and SSO with SIM.