

Oracle® Retail Store Inventory Management
Installation Guide
Release 13.1.2

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Oracle Retail Store Inventory Management, Installation Guide, Release 13.1.2

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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?
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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 13.1.2 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://metalink.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

If you are installing the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.2). If you are installing a software version other than the base release, be sure to read the documentation for each patch release (since the base release) before you begin installation. Patch documentation can contain critical information related to the base release and code changes that have been made since the base release.

Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site (with the exception of the Data Model which is only available with the release packaged code):

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

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

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.”

Note: This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

This is a code sample
It is used to display examples of code

A [hyperlink](#) appears like this.

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 13.1.1.1
- SIM 13.1.1.2

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:	Versions Supported:
Database Server OS	OS certified with Oracle Database 11gR1 Enterprise Edition. Options are: ▪ Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for x86-64 ▪ Red Hat Enterprise Linux 5 Update 2 (RHEL 5.2) for x86-64 ▪ AIX 6.1, minimum TL1 ▪ Solaris 10 ▪ HP-UX 11.31 (Integrity)
Database Server	Oracle Database 11g Release 1 Enterprise Edition (minimum 11.1.0.7 patchset required) with the following patches and components: Patches: ▪ 7036284 (LOADJAVA RUN IN A DV ENVIRONMENT CANNOT LOAD CLASSES WITH A NAME LONGER THAN 128) ▪ 7378322 (ORA-00600: internal error code, arguments: [6704], [1], [532241], [532237]) ▪ 6800649 – (AIX only) when non-oracle user uses client utilities sqlldr/sqlplus/impdp/expdp, core dump is generated. Need to “relink all” after applying the patch ▪ 7697360 (RAC only) ORA-00600: internal error code, arguments: [k2vcbk_6], Database crashed during transaction recovery. Components: ▪ Oracle Database 11g ▪ Oracle Partitioning ▪ Oracle Net Services ▪ Oracle Call Interface (OCI) ▪ Oracle Programmer ▪ Oracle XML Development Kit ▪ Examples CD (Formerly the companion CD) 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 10.1.3.4 OS certified with Oracle Database 11gR1 Enterprise Edition. Options are: ▪ Oracle Enterprise Linux 5 Update 2 (OEL 5.2) for x86-64 ▪ Red Hat Enterprise Linux 5 Update 2 (RHEL 5.2) for x86-64 ▪ AIX 6.1, minimum TL1 ▪ Solaris 10 ▪ HP-UX 11.31 (Integrity)
Application Server	Oracle Application Server 10g 10.1.3.4 with the following patches: ▪ 6880880: Universal Installer: Patch OPatch 9i, 10.1 ▪ 5649850: JDBC: Patch IF STRONG VERIFIER, GETCONNECTION FAIL AFTER INVOKE SETCONNECTIONCACHEPROPERTIES

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 version 10.1.2.3 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 10.1.2.3*

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
- Oracle Retail Wireless Foundation Server – provided by Wavelink 4.x

Check Client PC and Web Browser Requirements

Requirement	Version
Operating system	Windows 2000 or XP
Display resolution	1024x768 or higher
Processor	1GHz or higher
Memory	512MBytes or higher
Networking	intranet with at least 10Mbps data rate
Sun Java Runtime Environment	5.0 Update 11 or newer (1.5.0_11)
Browser	MS IE version 5.5 or higher The browser is used to launch the Java WebStart client.

Oracle Retail Dependencies

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) 13.1.2 and all subsequent patches and hot fixes – Required
 - RIBforSIM is a separately-packaged component that connects SIM to the RIB. 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

Note: Defect 9131352 Dependency

This defect includes a change in RIB jars and the fix has to be downloaded and applied from patch 9076352.

- Retail Merchandising System (RMS) 13.1.2 – Optional
- Retail Service Layer (RSL) 13.1 – Optional
- Retail Price Management (RPM) 13.1.2 – 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.

SIM Installation Overview

The following basic steps are required when installing and setting up SIM.

1. Install the database (with or without RAC).
2. Make sure that app-server (with or without clustering) is installed before installing the application.
3. Run data-seeding from RMS.
4. Set role-based access control. See chapter 2 in the SIM Implementation Guide for instructions.

RAC and Clustering

The Oracle Retail Merchandising System has been validated to run in two configurations on Linux:

- Standalone Oracle Application Server and Database installations
- Real Application Cluster Database and Oracle Application Server Clustering

The Oracle Retail products have been validated against an 11.1.0.7 RAC database. When using a RAC database, all JDBC connections should be configured to use OCI connections rather than THIN connections. It is suggested that when using OCI connections, the Oracle Retail products database be configured in the tnsnames.ora file used by the Oracle Application Server installations.

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.

Clustering for Oracle Application Server 10.1.2 is managed as an Active-Active cluster accessed through a hardware Load Balancer. It is suggested that the Web Cache installation included with OAS 10.1.2 be configured to reflect all application server Mid-Tier installations. Validation has been completed utilizing a RAC 11.1.0.7 Oracle Internet Directory database with the OAS 10.1.2 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 Real Application Clusters Administration and Deployment Guide 11g Release 1 (11.1) Part Number B28254-07

Database Installation Tasks

Before you apply the SIM 13.1.2 patch:

- Make a backup of all your objects and database schema.
- Check that SIM 13.1.1 is installed.
- Review the enclosed SIM 13.1.2 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.

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. SIM_INSTALL_DIR refers to the location where 13.1.1 was originally installed.
3. Shut down your server and any clients that might be connected to it.
4. Unzip the file by entering:
`unzip sim-db-patch.zip`

Note: It is recommended that an export of the existing schema is performed prior to running the following scripts.

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. Change directories to STAGING_AREA /sim/dbschema/patch/dbc.
2. Log into sqlplus as SIM13DEV and run the following command:
`SQL> @run_all.sql`
3. Check for any errors.

Update Stored Procedures for SIM

1. Change directories to STAGING_AREA/sim/dbschema/patch/stored_procedures.
2. Log into sqlplus as SIM13DEV and run the following command:
SQL> @run_all.sql
3. Check for any errors.

Update SIM Data Directory

1. Change directories to STAGING_AREA/sim/ dbschema/patch/data.
2. Log into sqlplus as SIM13DEV and export the NLS_LANG variable with a valid UTF8 charset (for example: export NLS_LANG=AMERICAN_AMERICA.UTF8) then run the following command:
SQL> @run_all.sql
3. Check for any errors.

Application Installation

Before proceeding you must install Oracle Application Server 10g 10.1.3.4 plus the patches 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 10.1.3.4.

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. **(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.

Example:

```
<process-type id="orco-inst" module-id="OC4J"
status="enabled">
  <module-data>
    <category id="start-parameters">
      <data id="java-options" value="-server
-XX:PermSize=256m -XX:MaxPermSize=512m -Xms256m -
Xmx256m -
Djava.security.policy=$ORACLE_HOME/j2ee/orco-
inst/config/java2.policy -Djava.awt.headless=true
-Dhttp.webdir.enabled=false"/>
    </category>
```

4. Force OPMN to reload the configuration file.

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

5. 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`

6. 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*.

1. 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.")
2. 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

1. 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 300 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(s) to which you install SIM are currently running.
6. 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: Appendix C contains 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.

Example:
`cd $ORACLE_HOME/j2ee/<sim-oc4j-instance>
mv sim-home sim-home.old`

3. 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/sim-client/sim_config.jnlp
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/sim-home/files/prod/config/JnlpLaunch.properties
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/sim-home/files/prod/config/jndi.cfg
 - \$ORACLE_HOME/j2ee/<sim-oc4j-instance>/sim-home/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 pre-signed 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/sim-client/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 (e.g. 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 unauthenticated 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 D of this document for instructions on silent mode.

See Appendix F 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:

1. 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.
3. 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. Deploy the SIM help ear file to the OC4J group using the Enterprise Manager web interface. The ear file is located at `<INSTALL_DIR>/sim/application/sim13/online-help/sim-help.ear`. When deploying the ear file, you should provide the same application name you gave to the installer, appending `-help`. In other words, if you provided "sim131" to the installer, you should provide `sim131-help` when deploying the online-help ear file.
5. 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.

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 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 free license. For multiple sessions 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 Implementation Guide.

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-request-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 2 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>:<http-port>/<client-context-root>/WebHelp`

JNDI Details in jndi.cfg

The JNDI properties should have the following format:

```
NAMING_SERVER_URL=opmn:ormi://<host>:<opmn-req-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-req-
port>:<rpm-oc4j-instance-name>/<rpm-app-name>"
```

```
Example: url=" opmn:ormi://<host>:<opmn-req-
port>:<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-sim-oc4j-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>
    <web>
      <web-uri>sim.war</web-uri>
      <context-root>/simweb</context-root>
    </web>
  </module>
  <module>
    <web>
      <web-uri>sim-ws.war</web-uri>
      <context-root>/sim-ws</context-root>
    </web>
  </module>
</application>
```


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"/>
```

LDAP Details in ldap.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-user-
password>
=====
```

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/<ocj-
instance-name>/sim-home/files/prod/dexnex/dexnex-
input
=====
```

```
DEXNEX_ERRORS_DIR=<ORACLE_HOME>/j2ee/<ocj-  
instance-name>/sim-home/files/prod/dexnex/dexnex-  
error
```

Alternate Example:

```
DEXNEX_INPUT_DIR=<path-to-alternate-sim-  
home>/files/prod/dexnex/dexnex-input
```

```
DEXNEX_ERRORS_DIR=<path-to-alternate-sim-  
home>/files/prod/dexnex/dexnex-error
```

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

SIM 13 Schema Installer – Oracle Retail

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Data Source Details

Please provide information on a pre-existing database user for this SIM installation. The installer will authenticate as this user and create the SIM database objects.

SIM Schema Owner

SIM Schema Password

SIM Oracle SID

Temporary tablespace name

Fields on this screen:

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

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 where the SIM schema will be installed
Example	mydb
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

Screen: PL/SQL Batch Setup – Base Directory

SIM 13 Schema Installer – Oracle Retail

ORACLE

PL/SQL Batch Setup – Base Directory

Provide a top-level directory on the database server for files related to SIM batch programs. The next screen will prompt for directories for specific batch programs using this path as a default parent directory.

PL/SQL batch data file location

Fields on this screen:

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	sim_dba.sql
Example	/usr/oracle/retail/sim/batch

Screen: PL/SQL Batch Setup (3 screens)

SIM 13 Schema Installer – Oracle Retail

ORACLE

PL/SQL Batch Setup

This release of SIM contains PL/SQL batch functionality. The following filesystem directories and their corresponding database directory objects must be created. The installer will not create these directories and directory objects. Instead it will create a SQL script for a DBA to review and run to create them.

ReSA data input directory	usr/oracle/retail/sim/batch/resa	Select Folder
ReSA original data directory	le/retail/sim/batch/resaOriginal	Select Folder
ReSA log directory	oracle/retail/sim/batch/resaLog	Select Folder
StockCount data input direct...	cle/retail/sim/batch/stockcount	Select Folder
StockCount upload directory	ail/sim/batch/stockcountUpload	Select Folder

Cancel Back Next Install

Fields on this screen:

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

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

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

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

Field Title	Bulk Price Processing input dir
Field Description	A filesystem directory and database directory object used for placing the input price change (Promotion, Clearance and Regular Price Change) files. The SQL procedure, reads the file from this input file from this directory.
Destination	sim_dba.sql
Example	/usr/oracle/retail/sim/batch/bppInput

Field Title	Bulk Price Processing archive dir
Field Description	A filesystem directory and database directory object used to place the price change (Promotion, Clearance and Regular Price Change) files which are successfully processed by bulk price processing procedure
Destination	sim_dba.sql
Example	/usr/oracle/retail/sim/batch/bppArchive

Field Title	Bulk Price Processing log dir
Field Description	A filesystem directory and database directory object used to place logs of bulk price processing execution details
Destination	sim_dba.sql
Example	/usr/oracle/retail/sim/batch/bppLog

Field Title	Customer Order input dir
Field Description	A filesystem directory and database directory object used for placing the input customer order files. The SQL procedure, reads the file from this input file from this directory.
Destination	sim_dba.sql
Example	/usr/oracle/retail/sim/batch/coInput

Field Title	Customer Order archive dir
Field Description	A filesystem directory and database directory object used to place the fully processed customer order procedure
Destination	sim_dba.sql
Example	/usr/oracle/retail/sim/batch/coArchive

Field Title	Customer Order log dir
Field Description	A filesystem directory and database directory object used to place logs of customer order processing execution details
Destination	sim_dba.sql
Example	/usr/oracle/retail/sim/batch/coLog

Screen: Use Reporting Tool

SIM 13 Schema Installer – Oracle Retail

ORACLE

Use Reporting Tool

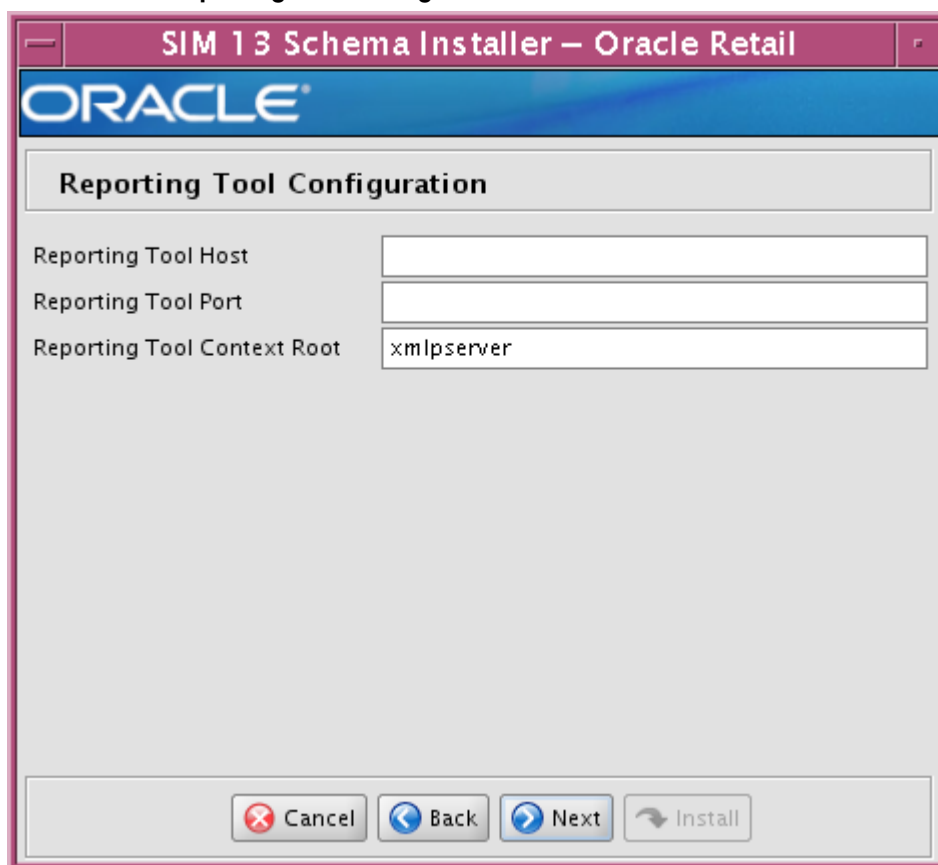
Are you using BI Publisher for SIM reporting?

Configure SIM for BI Publisher ☐

Cancel Back Next Install

Fields on this screen:

Field Title	Configure SIM for BI Publisher
Field Description	Toggle field indicating whether or not to configure SIM for BI Publisher Reporting Tool
Destination	insert_default_st_config_val.pls
Example	true
Notes	The following configuration screens will only appear if this checkbox is marked.

Screen: Use Reporting Tool Configuration

SIM 1.3 Schema Installer – Oracle Retail

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Reporting Tool Configuration

Reporting Tool Host

Reporting Tool Port

Reporting Tool Context Root

Fields on this screen:

Field Title	Reporting Tool Host
Field Description	Host name where Reporting Tool is installed.
Destination	insert_default_st_config_val.pls
Example	myhost.us.oracle.com

Field Title	Reporting Tool Port
Field Description	Port where Reporting Tool is configured.
Destination	insert_default_st_config_val.pls
Example	7777

Field Title	Reporting Tool Context Root
Field Description	Context root where Reporting Tool is installed
Destination	insert_default_st_config_val.pls
Example	xmlpserver

Screen: Use Reporting Tool Configuration 2

SIM 13 Schema Installer – Oracle Retail

ORACLE®

Reporting Tool Configuration 2

Reporting Tool Address:

Reporting Tool Request URL:

Reporting Tool Guest Path:

Reporting Tool Username:

Reporting Tool Password:

Buttons: Cancel, Back, Next, Install

Fields on this screen:

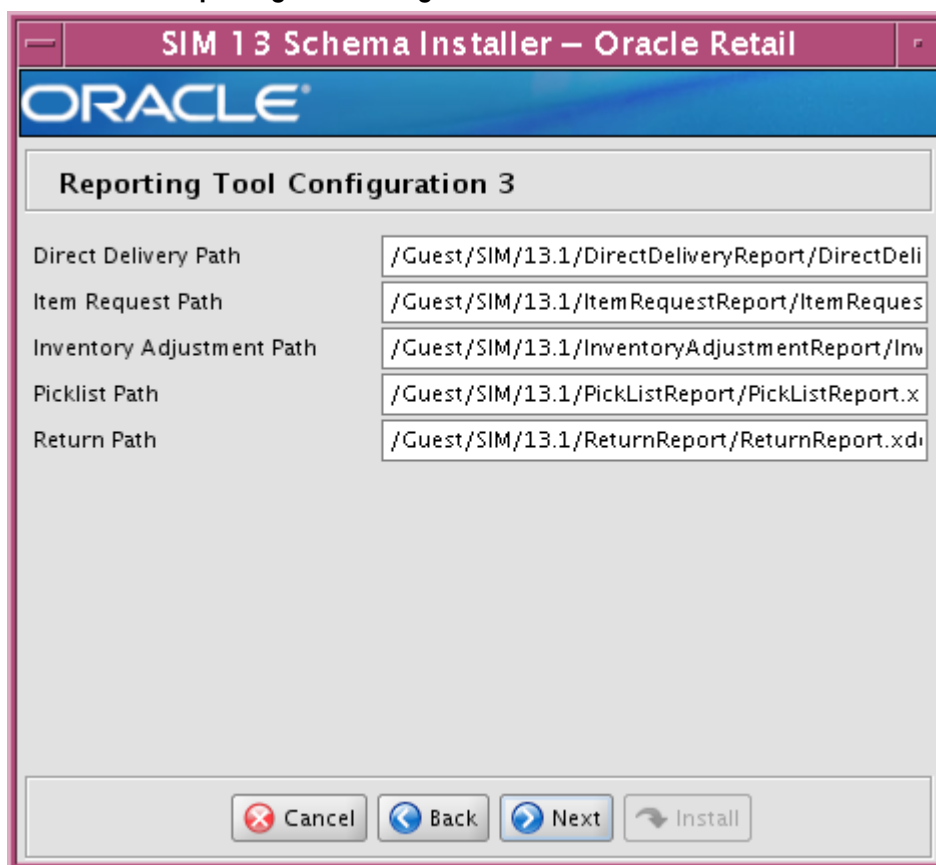
Field Title	Reporting Tool Address
Field Description	Confirmation field of address configured from values provided on previous screen
Destination	insert_default_st_config_val.pls
Example	http://myhost.us.oracle.com:7777/xmlpserver

Field Title	Reporting Tool Address URL
Field Description	Confirmation field of address configured from values provided on previous screen
Destination	insert_default_st_config_val.pls
Example	http://myhost.us.oracle.com:7777/xmlpserver

Field Title	Reporting Tool Guest Path
Field Description	<i>From Implementation Guide</i> · <BIP_SIM_REPORTS_FOLDER> is the folder where SIM reports have been uploaded on the BI Publisher server. For example, if they have been uploaded in the Guest folder, it is /Guest.
Destination	insert_default_st_config_val.pls
Example	/Guest/SIM/13.1

Field Title	Reporting Tool Username
Field Description	<i>From Implementation Guide</i> <BIP_REPORTS_USER> or <OSSO_USER>
Destination	insert_default_st_config_val.pls
Example	my username

Field Title	Reporting Tool Password
Field Description	<i>From Implementation Guide</i> <BIP_REPORTS_USER_PASSWORD> or <OSSO_PASSWORD>
Destination	insert_default_st_config_val.pls
Example	yy password

Screen: Use Reporting Tool Configuration 3


SIM 13 Schema Installer – Oracle Retail

ORACLE®

Reporting Tool Configuration 3

Direct Delivery Path	/Guest/SIM/13.1/DirectDeliveryReport/DirectDeli
Item Request Path	/Guest/SIM/13.1/ItemRequestReport/ItemReques
Inventory Adjustment Path	/Guest/SIM/13.1/InventoryAdjustmentReport/Inv
Picklist Path	/Guest/SIM/13.1/PickListReport/PickListReport.x
Return Path	/Guest/SIM/13.1/ReturnReport/ReturnReport.xdi

Cancel Back Next Install

Field Title	Default format fields
Field Description	Please see Implementation guide.
Destination	insert_default_st_config_val.pls
Notes	These fields are auto-configured by the installer based on previously input values.

Screen: Use Reporting Tool Configuration 4

Reporting Tool Configuration 4	
Stock Count Path	/Guest/SIM/13.1/StockCountReport/StockCountf
Stock Count All Loc Path	/Guest/SIM/13.1/StockCountAllLocReport/Stocki
Stock Recount Path	/Guest/SIM/13.1/StockCountRecountReport/Stoc
Stock Count NOF Path	/Guest/SIM/13.1/ThirdPartyNotOnFileReport/Thi
Store Order Path	/Guest/SIM/13.1/StoreOrderReport/StoreOrderR
Transfer Path	/Guest/SIM/13.1/TransferReport/TransferReport
Warehouse Delivery Path	/Guest/SIM/13.1/WarehouseDeliveryReport/Ware
Item Detail Path	/Guest/SIM/13.1/ItemDetailReport/ItemDetailRep

Buttons: Cancel, Back, Next, Install

Field Title	Default format fields
Field Description	Please see Implementation guide.
Destination	insert_default_st_config_val.pls
Notes	These fields are auto-configured by the installer based on previously input values.

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

Fields on this screen:

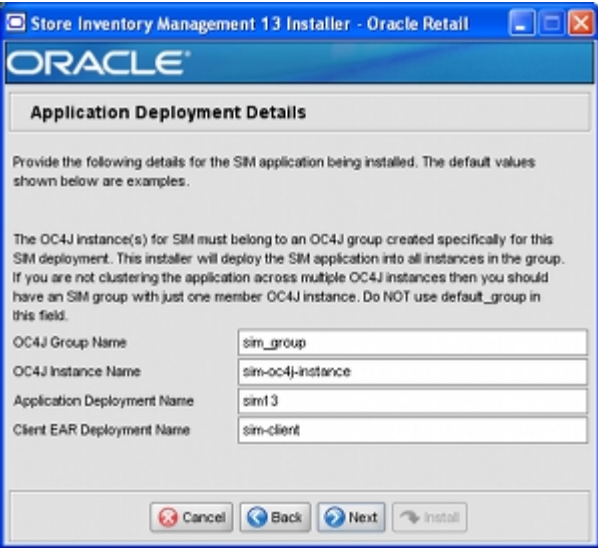
Field Title	Hostname
Field Description	The hostname of the server where the application server is installed
Destination	client_master.cfg
Example	myhost.us.oracle.com
Notes	Used by installer scripts to deploy EAR and WAR files and to create default inputs for client codebase and JNDI provider URL

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"/>
Example	6003
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

Screen: Application Deployment Details



Fields on this screen:

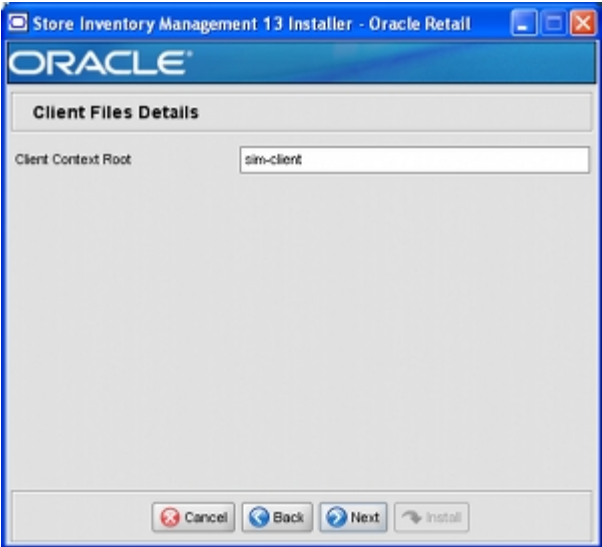
Field Title	OC4J Group Name
Field Description	Name of the OC4J group that was created for this SIM application. The OC4J instance given in the OC4J Instance Name field should be a member of this group. The installer will deploy the SIM application to all OC4J instances which are members of this group. 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 that the SIM application will be deployed to
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

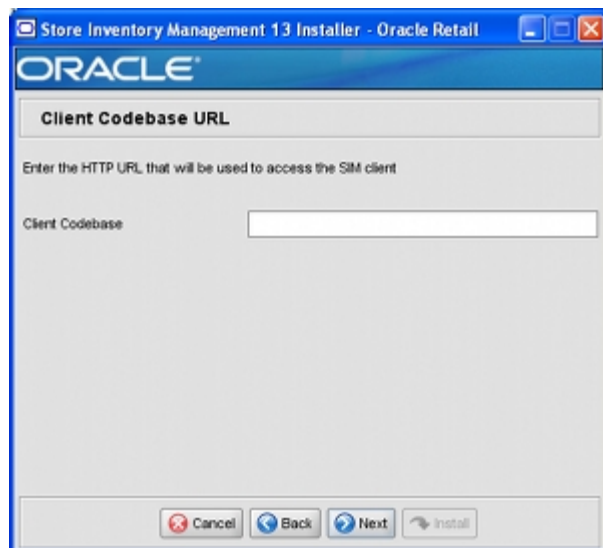
Field Title	Client EAR Deployment Name
Field Description	The name that will be used by the application server to deploy the sim-client.ear file.
Example	sim-client

Screen: Client Files Details



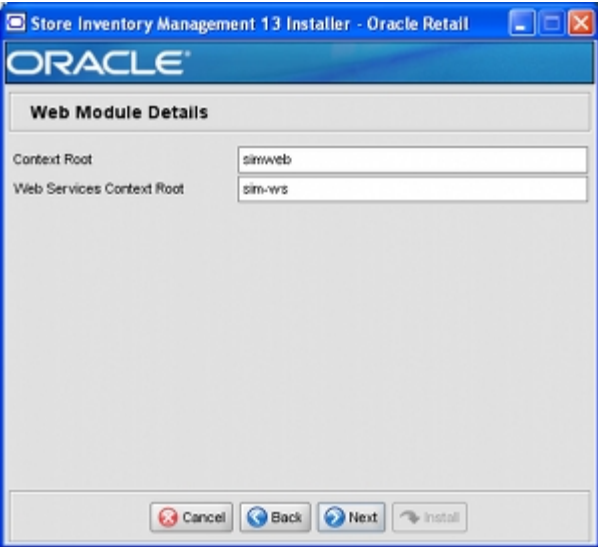
Fields on this screen:

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**Fields on this screen:**

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

Screen: Web Module Details



Fields on this screen:

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

Screen: RPM Details

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RPM Details

If SIM will be integrated with RPM then provide the details (Optional).

RPM App Server Host

RPM Request Port

RPM OC4J Instance Name

RPM Application Name

Cancel Back Next Install

Fields on this screen:

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.us.oracle.com
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"/>
Destination	jndi_providers.xml
Example	6003
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
Fields on this screen:

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.us.oracle.com
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 intalled. The OPMN request port is found in \$ORACLE_HOME/opmn/conf/opmn.xml <port local="6100" remote="6200" request="6003"/>
Destination	jndi_providers.xml
Example	6003
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 RSLforRMS

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

Screen: RIBforSIM Details
Fields on this screen:

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.us.oracle.com
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"/>
Destination	jndi_providers_ribclient.xml
Example	6003
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 Description	The name that will be used by the application server to identify the RIBforSIM application
Destination	jndi_providers_ribclient.xml
Example	rib-sim
Notes	Used only if integrating SIM with RIBforSIM

Field Title	rib-sim OC4J User
Field Description	The OC4J Admin User for the OC4J instance where rib-sim is installed.
Destination	jndi_providers_ribclient.xml
Example	oc4jadmin
Notes	Used only if integrating SIM with RIBforSIM

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

Screen: JNDI Details
Fields on this screen:

Field Title	SIM JNDI Provider URL
Field Description	JNDI provider URL for the SIM application
Destination	jndi.cfg, JnlpLaunch.properties
Example	opmn:ormi://myhost.us.oracle.com:6003: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.us.oracle.com:6003: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.us.oracle.com:6003: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.us.oracle.com:6003: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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Data Source Details

Provide details about the SIM data source. Enter the same schema name and password that was used in the Database installer.

See Install Guide for JDBC URL format

SIM JDBC URL

SIM Schema

SIM Schema Password

Cancel Back Next Install

Fields on this screen:

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
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

Screen: LDAP Directory Server Details

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

Enter the search base DN. This is a directory entry under which SIM will search for user and store entries

LDAP Search Base DN

Enter the search user DN. SIM will authenticate to the LDAP directory as this entry.

Search User DN

Search User Password

Fields on this screen:

Field Title	LDAP Server URL
Field Description	URL for your LDAP directory server. See Appendix E: 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

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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

Cancel Back Next Install

Fields on this screen:

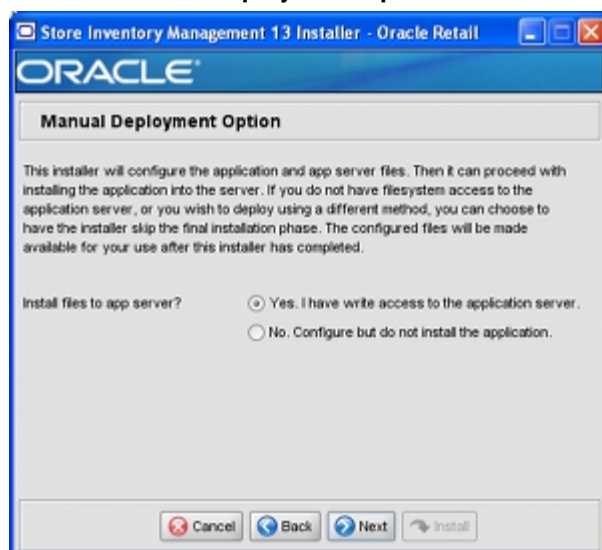
Field Title	SIM Wireless Server Port
Field Description	Choose an available port that the Wavelink server will use to listen for incoming messages from wireless devices
Destination	wireless_services.cfg, wavelink-startup.sh
Example	40002

Screen: Enable SSO in SIM



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**Fields on this screen:**

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
- <port>: 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
- <port>: 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.
- <client-context-root>: The context root for sim-client.war

JNDI Provider URL for an Application

This is used by the application client to access the application running in the server. It 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

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.

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 tnsping 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.

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 E: *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 D 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 `~/.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
java.util.AbstractList$Itr.checkForComodification(AbstractList.java:448)
        at java.util.AbstractList$Itr.next(AbstractList.java:419)
... 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 sim13.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 10.1.3.4. 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.

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), Oracle Retail Sales Audit (ReSA)
2. Oracle Retail Service Layer (RSL)
3. Oracle Retail Extract, Transform, Load (RETL)
4. Oracle Retail Active Retail Intelligence (ARI)
5. Oracle Retail Warehouse Management System (RWMS)
6. Oracle Retail Allocation
7. Oracle Retail Invoice Matching (ReIM)
8. Oracle Retail Price Management (RPM)

Note: During installation of RPM, you are asked for the RIBforRPM provider URL. Since RIB is installed after RPM, make a note of the URL you enter. If you need to change the RIBforRPM provider URL after you install RIB, you can do so by editing the `jndi_provider.xml` file.

9. Oracle Retail Central Office (ORCO)
10. Oracle Retail Returns Management (ORRM)
11. Oracle Retail Back Office (ORBO) or Back Office with Labels and Tags (ORLAT)
12. Oracle Retail Store Inventory Management (SIM)

Note: During installation of SIM, you are asked for the RIB provider URL. Since RIB is installed after SIM, make a note of the URL you enter. If you need to change the RIB provider URL after you install RIB, you can do so by editing the `jndi_providers_ribclient.xml` file.

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

- 21.** Oracle Retail Assortment Planning (AP)
- 22.** Oracle Retail Item Planning (IP)
- 23.** Oracle Retail Item Planning configured for COE (IPCOE)
- 24.** Oracle Retail Advanced Inventory Planning (AIP)
- 25.** Oracle Retail Integration Bus (RIB)
- 26.** Oracle Retail Point-of-Service (ORPOS)
- 27.** Oracle Retail Analytics Applications
- 28.** Oracle Retail Data Warehouse (RDW)
- 29.** Oracle Retail Workspace (ORW)