

# **Oracle® Retail Point-of-Service**

Installation Guide

Release 8.0

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# Contents

<b>Preface</b> .....	vii
Audience.....	vii
Related Documents .....	vii
Customer Support .....	vii
Conventions .....	viii
 <b>1 Pre-Installation Tasks</b>	
<b>Check Supported Software</b> .....	1-1
Supported Software for Clients (Registers).....	1-1
Supported Software for Store Servers .....	1-1
<b>Check Supported Hardware</b> .....	1-2
Basic Computer Specifications .....	1-2
Peripheral Devices for Clients .....	1-2
Supported Hardware for Clients .....	1-2
Supported Hardware for Store Servers.....	1-3
 <b>2 Installation</b>	
<b>Installing with the Install Script</b> .....	2-1
Determining Server Tier.....	2-1
Installing the Database .....	2-2
Required Settings for the Database .....	2-3
Installing Point-of-Service on Machines .....	2-3
Updating Device Configuration.....	2-3
<b>Expanding the Point-of-Service Distribution</b> .....	2-4
<b>Obtain Third-Party Library Files Required by Point-of-Service</b> .....	2-4
<b>Run the Point-of-Service Application Installer</b> .....	2-4
<b>Resolving Errors Encountered During Application Installation</b> .....	2-5
<b>Fixing the Security in your JRE</b> .....	2-5
<b>Create the Point-of-Service Database Schema</b> .....	2-5
Creating with Oracle Retail Back Office .....	2-5
Creating without Oracle Retail Back Office .....	2-5
<b>Perform the Manual Integration</b> .....	2-6
Client Configuration .....	2-6
Store Server Configuration .....	2-7

Results of a Point-of-Service Installation .....	2-9
Running Point-of-Service .....	2-10
Creating a Custom Installation .....	2-11

## **A Appendix: Point-of-Service Application Installer Screens**

## **B Appendix: URL Reference**

JDBC URL for a Database .....	B-1
-------------------------------	-----

## **C Appendix: Common Installation Errors**

"Pos installer finished with errors" .....	C-1
"Dispatcher.main, Exception: java.security.AccessControlException: access denied (java.util.PropertyPermission * read,write)" Message .....	C-1
"java.lang.NoClassDefFoundError: javax/ejb/CreateException" Warning .....	C-2

## List of Figures

A-1	Introduction .....	A-1
A-2	Previous POS Install .....	A-2
A-3	License Agreement .....	A-2
A-4	Installation Location .....	A-3
A-5	Server Tier Type .....	A-3
A-6	Default Language .....	A-4
A-7	Supported Languages .....	A-5
A-8	Store Server Details .....	A-5
A-9	Store ID .....	A-6
A-10	Where is JRE 1.4.2 located? .....	A-7
A-11	Third Party Jars .....	A-7
A-12	OracleRetailStore Database Type .....	A-8
A-13	OracleRetailStore Database Server .....	A-9
A-14	Database Configuration .....	A-10
A-15	OracleRetailStore Database Server Port Number .....	A-12
A-16	Transaction Retrieval Location .....	A-12
A-17	Scratchpad Database Information .....	A-13
A-18	RMI Timeout .....	A-15
A-19	Journal Options .....	A-15
A-20	Logging Options .....	A-16
A-21	Logging Detail .....	A-17
A-22	Register Number .....	A-18
A-23	Platform and Devices .....	A-18
A-24	Epson Third Party Jar .....	A-19
A-25	Client Journal Options .....	A-20
A-26	Corporate Server Question .....	A-21
A-27	Tender Authorization .....	A-22
A-28	Enter Data for ISD Tender Authorizer .....	A-22
A-29	User Interface Type .....	A-23
A-30	Pre-Installation Summary .....	A-24

## List of Tables

1-1	Supported Software for Clients .....	1-1
1-2	Supported Software for Store Servers.....	1-1
1-3	Hardware Minimum Requirements.....	1-2
1-4	Supported Hardware for Clients .....	1-2
1-5	Supported Hardware for Store Servers .....	1-3
2-1	Server Tier Logical Components .....	2-1
2-2	Database Configuration Settings .....	2-2
2-3	OracleRetailStore Subdirectories .....	2-9
2-4	OracleRetailStore\pos Subdirectories .....	2-10

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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 Point-of-Service Release 8.0 documentation set or in the Oracle Retail Back Office Release 8.0 documentation set:

- *Oracle Retail Point-of-Service Release Notes*
- *Oracle Retail Point-of-Service Operations Guide*
- *Oracle Retail Point-of-Service User Guide*
- *Oracle Retail Back Office Installation Guide*

## Customer Support

- <https://metalink.oracle.com>

When contacting Customer Support, please provide:

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

## Conventions

The following text conventions are used in this document:

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



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## Pre-Installation Tasks

This chapter defines supported products for client and server systems in the Oracle Retail Point-of-Service system. Other products may work with the system, but have not been tested; not all permutations of these products have been tested.

### Check Supported Software

This section lists the software which has been tested for Release 8.0.

#### Supported Software for Clients (Registers)

[Table 1–1](#) lists software products in the required categories which have been tested for this release in at least one configuration.

**Table 1–1** *Supported Software for Clients*

Required Item	Supported Products
Operating System	Windows Embedded for Point of Service (WEPOS), Version 1.1
Java Runtime Environment	Java 2 Platform, Enterprise Edition (J2EE), Version 1.4.2

#### Supported Software for Store Servers

[Table 1–2](#) lists software products in the required categories which have been tested for this release in at least one configuration.

**Table 1–2** *Supported Software for Store Servers*

Required Item	Supported Products
Operating System	Windows 2003 Server
Java Runtime Environment	Java 2 Platform, Enterprise Edition (J2EE), Version 1.4.2
Database	Oracle 10g R2 Standard Edition One, Version 10.2.0.2.0
Messaging	Oracle Application Server

## Check Supported Hardware

This section lists the hardware which has been tested for Release 8.0.

### Basic Computer Specifications

Specific hardware requirements for the machines running Oracle Retail Point-of-Service depend on several variables including the number of users and other applications running on the same machine. However, a general guideline is shown in [Table 1–3](#):

**Table 1–3 Hardware Minimum Requirements**

Machine	CPU	Speed	RAM	Hard Drive
Store Server	Pentium III	500 MHz	256MB	10GB
Database Server	Pentium III	500 MHz	256MB	10GB
Store Server, Database Server, and Back Office on the same machine	Pentium III	500 MHz	512MB	10GB
Client (Register) minimum	Pentium II	266MHz	128MB with hard drive	2GB
Client recommended	Pentium III	400 MHz	256MB	2GB

### Peripheral Devices for Clients

JavaPOS is the industry standard for Java compatibility for retail-oriented devices. A committee of prominent retail vendors and end users maintains the standard. Some of the more common devices used with point-of-sale applications include bar code scanners, cash drawers, printers, keyboards, magnetic stripe readers (MSR), wedge keyboards, hard totals, and magnetic ink check readers (MICR). Any JavaPOS-compliant peripheral devices should work with Oracle Retail Point-of-Service; some may require software modifications to work properly.

### Supported Hardware for Clients

[Table 1–4](#) lists the items that were tested. Other products may work with the system, but have not been tested; not all permutations of these products have been tested. Mice are not supported for Point-of-Service. A touch screen may be used, but a keyboard is required for some functions. The tested configuration included touch screens.

**Table 1–4 Supported Hardware for Clients**

Category	Supported Items
Register	IBM SurePOST™ 741
PIN pads	Ingenico EN-TOUCH 1000
Pole display	IBM 25L5510 (2x20)
Scanner	Symbol LS 1004, RS232
Printer/MICR	IBM 4610 Model 4 - USB
Cash Drawer	IBM

**Table 1–4 (Cont.) Supported Hardware for Clients**

Category	Supported Items
Keyboard	IBM A/N with MSR

## Supported Hardware for Store Servers

[Table 1–5](#) shows the hardware which was tested for store servers.

**Table 1–5 Supported Hardware for Store Servers**

Category	Supported Items
Hardware	Dell 2650
	Dell 2850
CPU	Intel x86-32 bit



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# Installation

This chapter provides information about the installation procedures for Oracle Retail Point-of-Service. Oracle Retail provides an installer for Point-of-Service, but customer installations typically develop custom procedures which build on the existing scripts. Use procedures in this chapter to install a demonstration or initial register system and as a source of information for modifying installations.

## Installing with the Install Script

To establish an initial Oracle Retail Point-of-Service installation or to create a demonstration system, use the Point-of-Service installer as described in this section. Note that the installation script is not appropriate for all installations. Oracle Retail expects implementation teams to develop custom procedures for actual register installations, which may or may not be based on the script described here. See ["Creating a Custom Installation"](#) for guidelines.

## Determining Server Tier

Machines and logical components of the Oracle Retail Point-of-Service application are defined in [Table 2-1](#):

**Table 2-1 Server Tier Logical Components**

Machine	Description
Store Server	The machine that runs the server component of Oracle Retail Point-of-Service. There is at least one store server for each store. This component runs as a service. This machine may also house the Back Office Server and other Oracle Retail Strategic Store Solutions components such as the OracleRetailStore database and Mobile Point-of-Service.
Point-of-Service Clients	The machines that execute the Point-of-Service transactions; they are typically cash registers.
Database Server	The machine that houses the OracleRetailStore databases. This machine may or may not be the same as the store server.
JMS Server	The machine that houses the JMS server software.

When you run the installation script, it asks you to specify a Server Tier Type. The following types are available:

- Stand-alone/Collapsed—Choose this option to run Point-of-Service on one machine without client-server components. This configuration runs in one JVM. It is typically used for development and demos, but not for production systems.

- N-Tier Client—Choose this when installing the client component.
- N-Tier Store Server—Choose this when installing the store server component.

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**Note:** Choose both N-Tier Client and N-Tier Store Server to install both components on the same machine.

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- N-Tier Database Server—Choose this when installing the database server component.

## Installing the Database

Oracle Retail products such as Point-of-Service and Back Office use the OracleRetailStore database. One OracleRetailStore database is typically installed in each store. Data stored in the OracleRetailStore database includes employee names, logon information, transaction data, and the inventory database. The database can be located on the store server or on a separate machine acting as the database server. The database must be installed before Point-of-Service can be installed.

If you are using Centralized Transaction Retrieval, an additional database called the Scratchpad database is used. This database holds retrieved transactions. For more information on Centralized Transaction Retrieval, see the Oracle Retail Point-of-Service Operations Guide.

Table 2–2 shows the database configuration information that is needed during installation.

**Table 2–2 Database Configuration Settings**

Installer Screen	Required Data
Transaction Retrieval Location	Choose the location for retrieving transactions. When using Centralized Transaction Retrieval, choose either the <b>Central</b> or <b>Central, Local Failover</b> option.  Note: You must choose the same location for both the store server and client installations.
Database Configuration	Enter the following information for the database: <ul style="list-style-type: none"> <li>■ JDBC driver path</li> <li>■ Driver class name</li> <li>■ Database URL</li> <li>■ Jar name</li> <li>■ Database user ID and password</li> </ul>
Scratchpad Database Configuration	Enter the following information for the Scratchpad database: <ul style="list-style-type: none"> <li>■ JDBC driver path</li> <li>■ Driver class name</li> <li>■ Database URL</li> <li>■ Jar name</li> <li>■ Database user ID and password</li> </ul>
Logging Options	Choose how the log is exported. When using Centralized Transaction Retrieval, choose the <b>Data Replication Export</b> option.
Corporate Server Question	Enter the host name of the machine where the Central Office instance for this store server is located.

To complete the installation script, you must know the database location:

- If you install Point-of-Service on the same machine as the database, the script asks for the database directory location.
- If you install Point-of-Service on a different machine from the database, the script asks for the hostname or IP address and RMI port number of the machine running the database.

The Point-of-Service installation process installs scripts to build the tables and insert a minimal data set. Steps for running these scripts are included later in this chapter.

### Required Settings for the Database

The following settings must be made during database creation:

- The database must be set to UTF8.
- Make the following changes to the system settings:

```
ALTER SYSTEM SET NLS_NUMERIC_CHARACTERS = '.,-' SCOPE=SPFILE;
ALTER SYSTEM SET NLS_DATE_FORMAT = 'YYYY-MM-DD' SCOPE=SPFILE;
ALTER SYSTEM SET NLS_TIMESTAMP_FORMAT = 'YYYY-MM-DD HH24:MI:SS.FF'
SCOPE=SPFILE;
```

## Installing Point-of-Service on Machines

If a previous version of Point-of-Service is installed on a machine, uninstall it by deleting the installation directory (the default directory is `c:\OracleRetailStore`) or choose a different installation directory from the default.

Run the installation script one time for each machine in the Server Tier and once for each register:

- The Collapsed and Single-Tier implementations require running the script one time.
- The 2-Tier implementation requires installation on the store server and each register.
- The 3-Tier implementation requires installation on the store server, database server, and each register.

The installation script performs the following steps. Not all steps apply for client, server, or database installations.

- Installs Foundation, Retail Domain, and Oracle Retail Point-of-Service jar files.
- Installs database build scripts and start-up files.
- Defines Server Tier in conduit script that starts Point-of-Service for the given machine.
- Defines hostnames or IP addresses and port numbers for the Store Server and database server.
- Defines device availability.
- Defines application properties for Store ID and Register Number.

## Updating Device Configuration

To update the device configuration:

1. Update the `360common/360Tools/automatedTesting/Tools/jpos/res/jpos.xml` file to reflect the devices being used on the machine.  

```
<JposEntries>
  <JposEntry logicalName="defaultScanner">
    <creation
factoryClass="com.extendyourstore.jpos.CrsJposServiceInstanceFactory"
serviceClass="com.extendyourstore.jpos.Scanner.POSsim"/>
    <vendor name="360Commerce" url="http://www.360Commerce.com"/>
    <jpos category="Scanner" version="1.5"/>
    <product description="POSsim Scanner" name="360 Commerce EYS Scanner"
url="http://www.360Commerce.com"/>
    <prop name="host" value="localhost"/>
    <prop name="debug" value="true"/>
  </JposEntry>
  ...
</JposEntries>
```
2. After the install script is run, update `360common/360Tools/automatedTesting/Tools/jpos/res/jpos.properties` to point to the JavaPOS location.

## Expanding the Point-of-Service Distribution

To extract the Point-of-Service files:

1. Extract the `ORPOS-8.00.zip` file from the Point-of-Service distribution `ORPOS-8.00_EPD.zip` file.
2. Copy or upload `ORPOS-8.00.zip` to the installation directory and extract its contents. In the remainder of this installation guide, `<INSTALL_DIR>` is used for that directory.

## Obtain Third-Party Library Files Required by Point-of-Service

The Point -of-Service application uses JBoss specific files. You can download the jboss application server to get access to the required files. You can get the download at the website:

[http://sourceforge.net/project/showfiles.php?group\\_id=22866&package\\_id=16942&release\\_id=312621](http://sourceforge.net/project/showfiles.php?group_id=22866&package_id=16942&release_id=312621)

Extract the following files:

- `jboss-4.0.2\lib\jboss-common.jar`
- `jboss-4.0.2\client\jboss-j2ee.jar`
- `jboss-4.0.2\client\jbossmq-client.jar`
- `jboss-4.0.2\client\jnp-client.jar`

## Run the Point-of-Service Application Installer

This installer will configure and deploy the Point-of-Service application.

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**Note:** To see details on every screen and field in the application installer, see [Appendix A](#).

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1. Change to the temporary directory where you unzipped the `ORPOS-8.00.zip` file.
2. Set the `JAVA_HOME` environment variable. It should point to your jdk.
3. Run the `posinst.exe` script. This will launch the installer. After installation is complete, a detailed installation log file is created at `<INSTALL_DIR>/pos/logs/installer_log.txt`

## Resolving Errors Encountered During Application Installation

If the application installer encounters any errors, you can read them in the above mentioned log file.

For a list of common installation errors, see [Appendix C](#).

## Fixing the Security in your JRE

To set up the security for the Point-of-Service application, do the following:

- Copy `java.security` from `$POS_INSTALL_DIR$/jre/lib/security` to `$JAVA_HOME$/jre/lib/security`.
- Copy `java.policy` from `$POS_INSTALL_DIR$/jre/lib/security` to `$JAVA_HOME$/jre/lib/security`.

## Create the Point-of-Service Database Schema

The scripts that create the Point-of-Service database schema can be run from the installed `pos/bin` directory. The database server can be on the same system as the application server or on a different system.

### Creating with Oracle Retail Back Office

When Point-of-Service will be used with Back Office, create the database schema during the Back Office installation. See the Oracle Retail Back Office Installation Guide for information.

Then, as part of this installation, perform the following steps.

1. Run `BuildFF.bat` to create the necessary flat files.
2. If **Central** or **Central, Local Failover** was selected for the Transaction Retrieval Location, run `scratchpad.bat` to create the Scratchpad database.

### Creating without Oracle Retail Back Office

When Point-of-Service is being installed without Back Office, perform the following steps to create the Point-of-Service database schema.

1. Create a user in the database:

```
create role APP_ROLE;
```

```
grant CREATE TABLE, CREATE VIEW, CREATE SEQUENCE, CREATE SYNONYM, CREATE CLUSTER, CREATE DATABASE LINK, ALTER SESSION to APP_ROLE;
```

```
grant CONNECT, RESOURCE, APP_ROLE, SELECT_CATALOG_ROLE to <db_user>;
```

2. Change to the `<INSTALL_DIR>/pos/bin` directory.

3. Set the JAVA\_HOME and ANT\_HOME environment variables.
4. Add \$JAVA\_HOME/bin and \$ANT\_HOME/bin to the front of the PATH environment variable.  

```
PATH=$JAVA_HOME/bin:$ANT_HOME/bin:$PATH; export PATH
```
5. Run one of the available dbbuild.bat targets to create the database schema and load data.
  - seed\_data: loads seed data
  - test\_data: loads test data

For example, dbbuild seed\_data
6. If **Central** or **Central, Local Failover** was selected for the Transaction Retrieval Location, run scratchpad.bat to create the Scratchpad database.

## Perform the Manual Integration

The following steps need to be completed for Point-of-Service to communicate with Back Office and Central Office. These steps enable Point-of-Service to receive parameter updates and to send EJournal and POSLogs up to Central Office. These steps are shown separately for the client and server, but can also be done when installing the client and server into the same install directory.

### Client Configuration

To configure the client:

1. Add the following class path entries to the OracleRetailStore/pos/bin/posenv.bat file.  

```
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\oc4j-internal.jar
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\javax77.jar
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\jms.jar
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\optic.jar
```
2. Change the OracleRetailStore/pos/bin/jndi.properties file to point to Back Office.  

```
java.naming.provider.url=ormi://<Back Office host name>:12401
java.naming.factory.initial=com.evermind.server.rmi.RMIInitialContextFactory
java.naming.security.principal=oc4jadmin
java.naming.security.credentials=oc4jadmin
```
3. Add the Back Office queue and topic connection factory entries to the OracleRetailStore/pos/bin/comm.properties file.  

```
comm.jms.topicConnectionFactory.name=jms/TopicConnectionFactory
comm.jms.queueConnectionFactory.name=jms/QueueConnectionFactory
```
4. Edit ParameterTechnician in the OracleRetailStore/pos/config/conduit/ClientConduit.xml file.  

```
<TECHNICIAN name="ParameterTechnician" class = "ParameterTechnician"
    package = "com.extendyourstore.foundation.manager.parameter"
    export = "Y" >
  <PROPERTY propName="paramScript"

propvalue="classpath://config/manager/PosParameterTechnician.xml"/>
```

```

        <PROPERTY propname="JmsProviderTopicName"
propvalue="jms/parameters"/>
        <PROPERTY propname="listenForUpdates" propvalue="Y"/>
        <!-- Uncomment this and set the correct values if you are using
websphere.-->
        If using JBoss these must remain commented out.
        <PROPERTY propname="clientID" propvalue="reg129"/>
        <PROPERTY propname="jmsID" propvalue="oc4jadmin"/>
        <PROPERTY propname="jmsPassword" propvalue="oc4jadmin"/>
</TECHNICIAN>

```

## Store Server Configuration

To configure the store server:

1. Add the following class path entries to the OracleRetailStore/pos/bin/posenv.bat file.

```

SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\oc4j-internal.jar
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\javax77.jar
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\jms.jar
SET CLASSPATH=%CLASSPATH%;%_360COMMON_PATH%\common\build\optic.jar

```

2. Change the OracleRetailStore/pos/bin/jndi.properties file to point to Back Office.

```

java.naming.provider.url=ormi://<Back Office host name>:12401
java.naming.factory.initial=com.evermind.server.rmi.RMIInitialContextFactory
java.naming.security.principal=oc4jadmin
java.naming.security.credentials=oc4jadmin

```

3. Change the OracleRetailStore/pos/config/centraloffice.jndi.properties file to point to Central Office. This creates access to the POSLog and EJournalImport queues only.

```

java.naming.provider.url=ormi://<Central Office host name>:12401
java.naming.factory.initial=com.evermind.server.rmi.RMIInitialContextFactory
java.naming.security.principal=oc4jadmin
java.naming.security.credentials=oc4jadmin

```

4. To enable Centralized Transaction Retrieval to access the EJBs and POSLog and EJournalImport queues, change the OracleRetailStore/pos/config/centraloffice.jndi.properties file to point to Central Office.

```

java.naming.provider.url=ormi:
//<Central Office host name>:12401/CentralOffice
java.naming.factory.initial=com.evermind.server.rmi.RMIInitialContextFactory
java.naming.security.principal=pos
java.naming.security.credentials=pos

```

5. Add the Back Office and Central Office queue and topic connection factory entries to the OracleRetailStore/pos/bin/comm.properties file.

```

comm.jms.topicConnectionFactory.name=jms/TopicConnectionFactory
comm.jms.queueConnectionFactory.name=jms/QueueConnectionFactory
comm.jms.topicConnectionFactory.name.centraloffice=jms/TopicConnectionFactory
comm.jms.queueConnectionFactory.name.centraloffice=jms/QueueConnectionFactory

```

6. Delete the comm.properties file from pos/config.

7. Edit the log export configuration in the OracleRetailStore/pos/config/conduit/StoreServerConduit.xml file.

- To use data replication, edit the DataReplicationDaemonTechnician section.

```
<TECHNICIAN name="DataReplicationDaemonTechnician"
            class="DataReplicationDaemonTechnician"
            package="com.extendyourstore.domain.manager.datareplication"
            export="Y">
    <PROPERTY propname="daemonClassName"

propvalue="com.extendyourstore.domain.manager.datareplication.DataReplicati
onExportDaemonThread"/>
    <PROPERTY propname="sleepInterval"
                propvalue="15"/>
    <PROPERTY propname="logWriterClass"

propvalue="com.extendyourstore.domain.manager.datareplication.JMSDataReplic
ationWriter"/>

    <PROPERTY propname="extractorConfigurationFileName"
                propvalue="config/ReplicationExportConfig.xml"/>
    <PROPERTY propname="queueHostName"
                propvalue="centraloffice"/>
    <PROPERTY propname="maximumTransactionsToExport"
                propvalue="2"/>
    <PROPERTY propname="queueName"
                propvalue="jms/POSLog"/>
</TECHNICIAN>
```

- To use the POSLog, edit the PosLogDaemonTechnician section.

```
TECHNICIAN name="POSLogDaemonTechnician"
            class="POSLogDaemonTechnician"
            package="com.extendyourstore.domain.manager.export"
            export="Y">
    <PROPERTY propname="daemonClassName"

propvalue="com.extendyourstore.domain.manager.export.POSLogExportDaemonThre
ad"/>
    <PROPERTY propname="sleepInterval"
                propvalue="5"/>
    <PROPERTY propname="logWriterClass"

propvalue="com.extendyourstore.domain.ixretail.log.POSLogWriter"/>
    <PROPERTY propname="queueHostName"
                propvalue="centraloffice"/>
    <PROPERTY propname="queueName"
                propvalue="jms/POSLog"/>
    <PROPERTY propname="logWriterClass"

propvalue="com.extendyourstore.domain.ixretail.log.JMSPOSLogWriter"/>
</TECHNICIAN>
```

The queueHostName must be changed to centraloffice as shown in this example. This will allow the POSLog Export Daemon to use the OracleRetailStore/pos/config/centraloffice.jndi.properties file. Delete the OracleRetailStore/pos/config<central office host name>.jndi.properties file.

8. Edit JMSJournalTechnician in the OracleRetailStore/pos/config/conduit/StoreServerConduit.xml file.

```
<TECHNICIAN name="JMSJournalTechnician"
    class="JMSJournalTechnician"
    package="com.extendyourstore.foundation.manager.journal"
    export="Y">
    <PROPERTY propname="journalFormatterClass"

propvalue="com.extendyourstore.pos.manager.journal.POSJournalFormatter"/>
    <PROPERTY propname="journalHandlerClass"

propvalue="com.extendyourstore.pos.manager.journal.POSJMSJournalHandler"/>
    <PROPERTY propname="queueName" propvalue="jms/EJournal"/>
    <PROPERTY propname="consolePrintable" propvalue="N"/>
</TECHNICIAN>
```

9. Edit MessageCenterDaemonTechnician in the OracleRetailStore/pos/config/conduit/StoreServerConduit.xml file.

```
<TECHNICIAN name="MessageCenterDaemonTechnician"
    class="MessageCenterDaemonTechnician"
    package="com.extendyourstore.domain.manager.messagecenter"
    export="Y">
    <PROPERTY propname="daemonClassName"

propvalue="com.extendyourstore.domain.manager.messagecenter.MessageCenterDaemon
Thread"/>
    <PROPERTY propname="senderQueueName"
propvalue="jms/EJournalImport"/>
    <PROPERTY propname="senderBrokerName"
propvalue="centraloffice"/>
    <PROPERTY propname="receiverQueueName"
propvalue="jms/EJournal"/>
    <PROPERTY propname="receiverBrokerName"
propvalue=""/>
</TECHNICIAN>
```

## Results of a Point-of-Service Installation

The default root directory for OracleRetailStore applications on Windows is c:\OracleRetailStore. The subdirectories listed in [Table 2–3](#) are created:

**Table 2–3 OracleRetailStore Subdirectories**

Name	Contents
360common	Files shared by multiple Oracle Retail Strategic Store Solutions applications including Foundation or 360Platform, Domain, and third party jar files
databases	Resources for various database types
jre	Contains the Java runtime environment
pos	Point-of-Service files
backoffice	Back Office files (if the Oracle Retail Back Office product is installed)

**Table 2–3 (Cont.) OracleRetailStore Subdirectories**

Name	Contents
unleashed	Mobile Point-of-Service files (if the Oracle Retail Mobile Point-of-Service product is installed)

Important subdirectories of the `\pos` directory on Windows is shown in [Table 2–4](#):

**Table 2–4 OracleRetailStore\pos Subdirectories**

Name	Contents
bin	Startup batch files and shell scripts
lib	Point-of-Service application and resource jar files
lib\locales	Text bundles for localization  <b>Note:</b> The only language currently supported is United States English. Language bundles are included in this release but are not supported as translated languages. The bundles are only provided for testing and demonstration purposes.
3rdparty	Third party source files used by Point-of-Service only
config	XML configuration files, <code>.properties</code> files, and <code>.dat</code> files
logs	Log files (additional log files are in the bin directory)
UninstallerData	Files for uninstalling Oracle Retail Point-of-Service

## Running Point-of-Service

You run the Oracle Retail Point-of-Service system by executing batch files or shell scripts, found in your installation's `bin` directory, to launch various components.

---

**Note:** For each command, a Windows batch file (such as `dbstart.bat`) exists.

---

To run Point-of-Service:

1. Start the OracleRetailStore database, if needed:

```
dbstart.bat
```

Regardless of where the database is located, start the service before starting the Point-of-Service application. If the database was recently built, the database server may already be running. If it is not running, you can start the database using the software supplied with it, or with the `dbstart.bat` command.

2. If you are not running a collapsed implementation, start the store server:

```
StoreServerConduit.bat
```

When the message `TierManager Started` appears, the server has started. The server component does not have a user interface. Collapsed implementations do not need to launch a separate store server.

3. Start the registers.

For each of the Point-of-Service registers, execute the conduit script that starts the Point-of-Service client component. For collapsed implementations, use the following command:

`CollapsedConduitFF.bat`

For 2-Tier or 3-Tier implementations, use the following command:

`ClientConduit.bat`

4. Verify the installation on each register by logging in to Point-of-Service with the default username (pos) and password (pos).

If the login is successful and the status bar indicates the database is online, the installation is complete.

## Creating a Custom Installation

A custom installation of Point-of-Service can use one of several approaches:

- Install Point-of-Service using the install script on a reference machine, and copy the resulting installation to other machines.
  - With this method, you can change the configuration settings of the installation as described in the Oracle Retail Point-of-Service Operations Guide until the installation works as desired, then propagate those configurations to other machines.
  - You can copy just the installation directory to a new machine, or if the hardware is sufficiently similar, you can copy the entire hard drive image to an machine. Copying the entire hard drive retains the JavaPOS installation as well as any other customizations.
  - You must change the WorkstationID value for the target machines to a unique number. This value can be found in  
`<installdirectory>\pos\config\application.properties`.
- Create a custom installation script which allows for various hardware options but specifies the software choices your company has chosen.

---

**Note:** By default, installation of a register requires certain IBM Install Set parameters to have specific values:

- Hard Total must be Off.
  - Ingenico must be On.
-





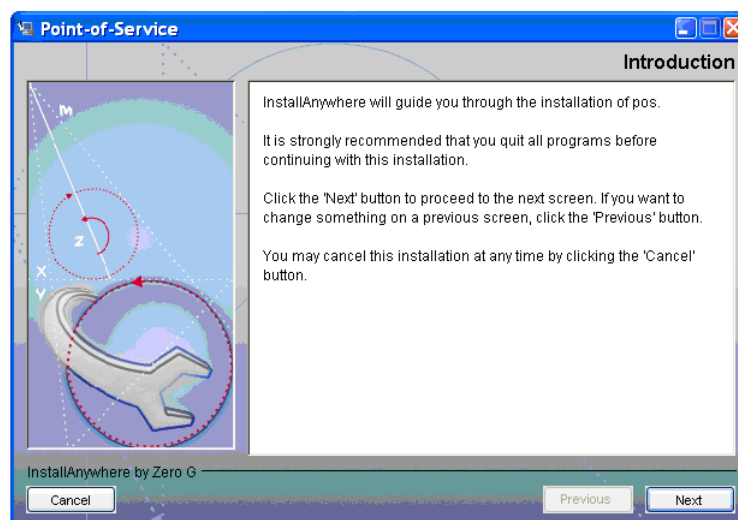
---

## Appendix: Point-of-Service Application Installer Screens

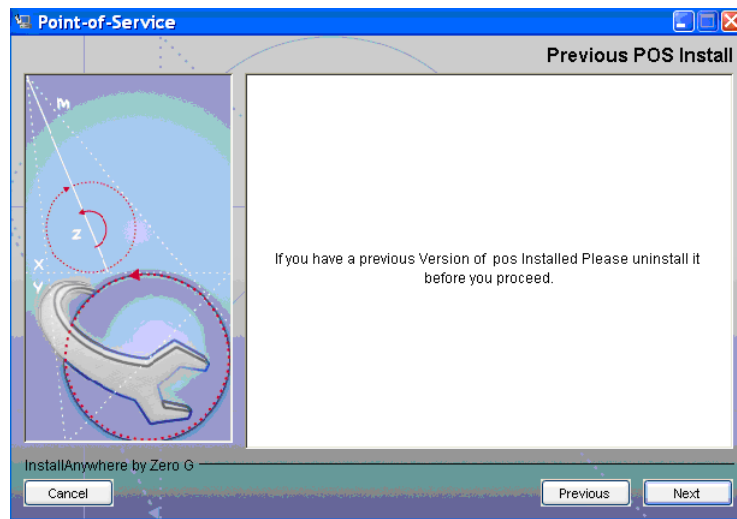
You need the following details about your environment for the installer to successfully install the Point-of-Service application. Depending on the Server Tier Type and options you select, you may not see some screens or fields.

For each field on a screen, a table is included in this appendix that describes the field. If you want to document any specific information about your environment for any field, a Notes row is provided in each table for saving that information.

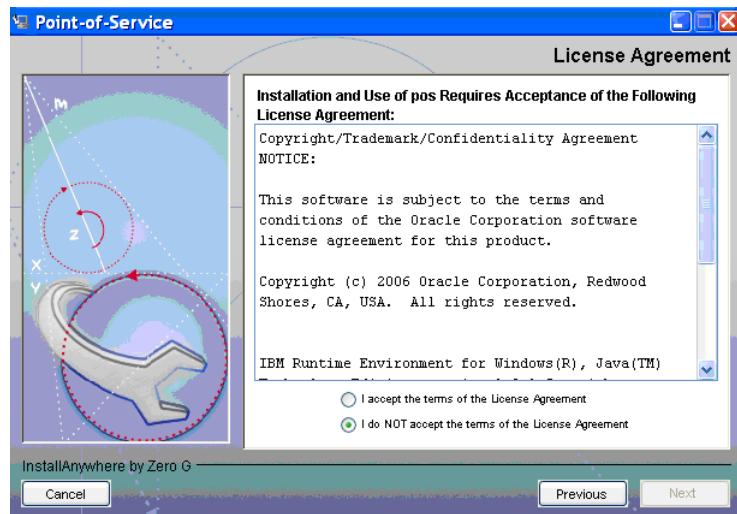
**Figure A-1** Introduction



**Figure A–2 Previous POS Install**



**Figure A–3 License Agreement**

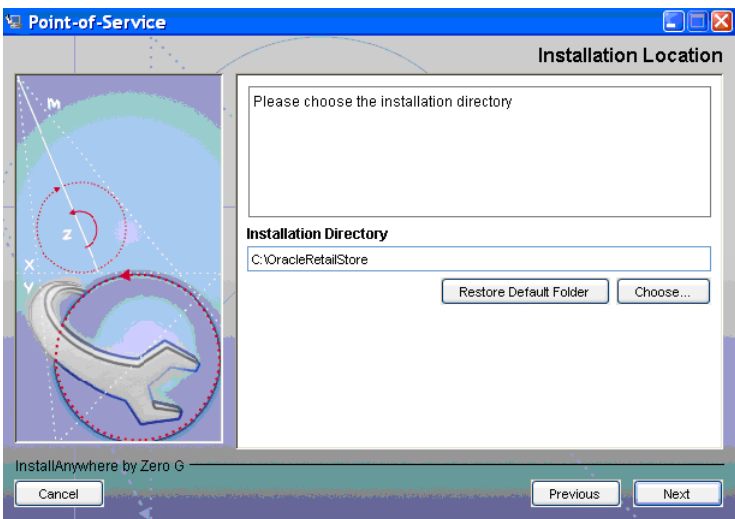


---

**Note:** You must choose to accept the terms of the license agreement in order for the installation to continue.

---

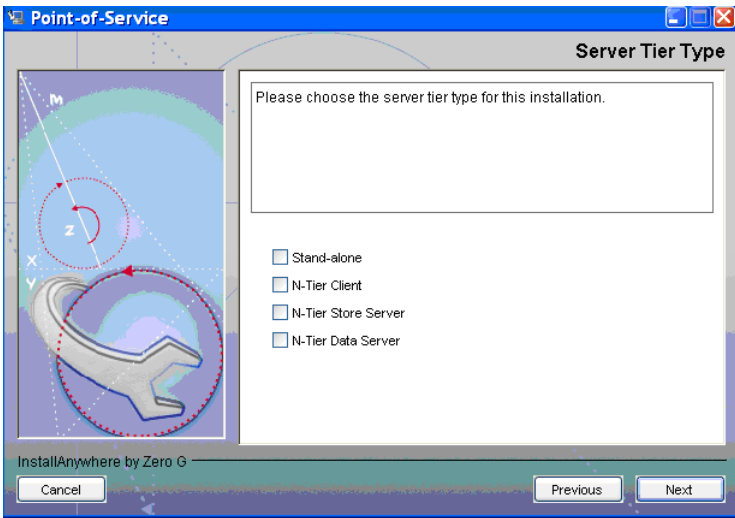
Figure A-4 Installation Location



The field on this screen is described in the following table.

Field Title	Installation Directory
Field Description	The directory into which the Point-of-Service files are copied. This install location should be the same for all Oracle Retail Strategic Store Solutions products, since they share resources. Files specific to Point-of-Service are copied to a /pos subdirectory of the directory chosen here.
Example	C:\OracleRetailStore
Notes	

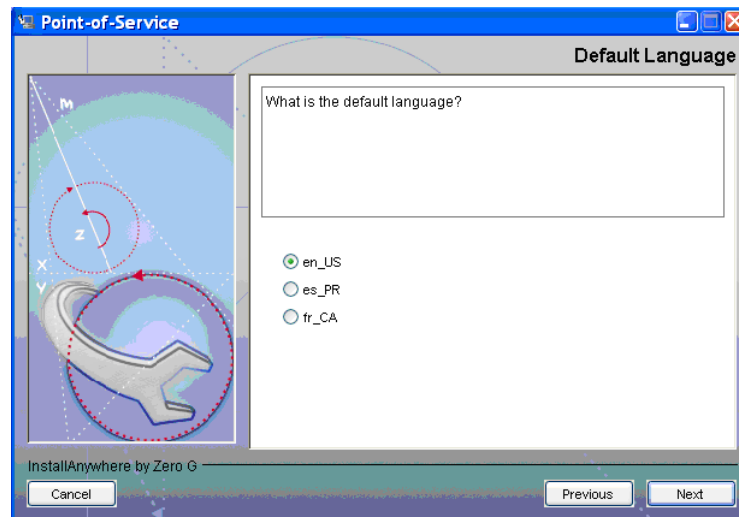
Figure A-5 Server Tier Type



The fields on this screen are described in the following table.

Field Title	Server Tier Type
Field Description	<p>Choose the server tier type for this installation. For more information, see <a href="#">"Determining Server Tier"</a> in <a href="#">Chapter 2</a>.</p> <ul style="list-style-type: none"> <li>■ To run a standalone version, choose <b>Stand-alone</b>.</li> <li>■ To run the N-tier version of the client, choose <b>N-Tier Client</b>.</li> <li>■ To run the N-tier version of the store server, choose <b>N-Tier Store Server</b>.</li> <li>■ To run the N-tier version of the data server, choose <b>N-Tier Data Server</b>.</li> </ul>
Example	N-Tier Client
Notes	

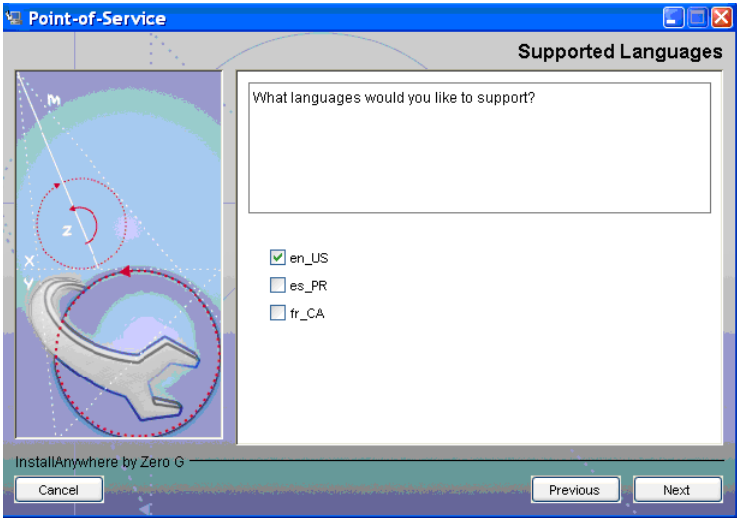
**Figure A–6 Default Language**



The fields on this screen are described in the following table.

Field Title	Default Language
Field Description	<p>Choose the default language for the installation.</p> <ul style="list-style-type: none"> <li>■ To select United States English, choose en_US.</li> </ul> <p><b>Note:</b> The only language currently supported is United States English. Language bundles are included in this release but are not supported as translated languages. The bundles are only provided for testing and demonstration purposes.</p>
Example	en_US
Notes	

Figure A-7 Supported Languages



The fields on this screen are described in the following table.

Field Title	Supported Languages
Field Description	<p>Choose the languages that are supported for the installation.</p> <ul style="list-style-type: none"><li>■ To select United States English, choose en_US.</li></ul> <p><b>Note:</b> The only language currently supported is United States English. Language bundles are included in this release but are not supported as translated languages. The bundles are only provided for testing and demonstration purposes.</p>
Example	en_US
Notes	

Figure A-8 Store Server Details

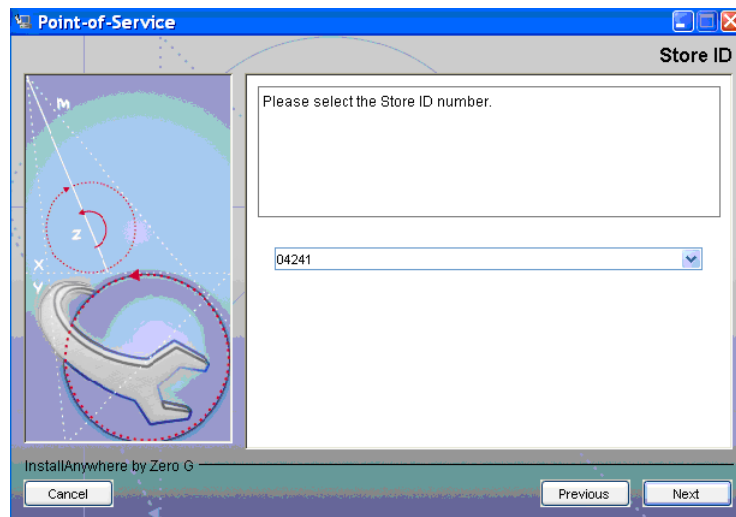


The fields on this screen are described in the following tables.

Field Title	Hostname
Field Description	Host name of the store server.
Destination	<code>\$POS_INSTALL_DIR\$/pos/config/rmihost.xml</code>
Example	eqa2
Notes	

Field Title	Port
Field Description	Port number of the store server used for the communication between the store server and the host computer.
Destination	<code>\$POS_INSTALL_DIR\$/pos/config/rmihost.xml</code>
Example	1300
Notes	

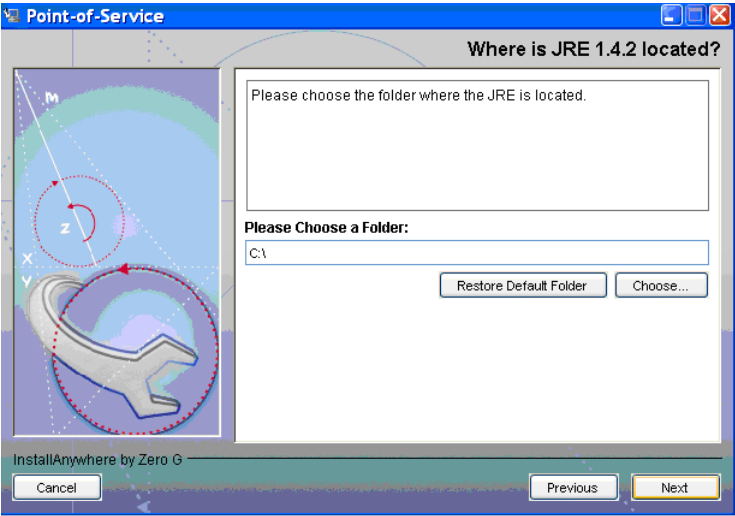
**Figure A–9 Store ID**



The field on this screen is described in the following table.

Field Title	Store ID
Field Description	Choose the store ID from the menu.
Example	04241
Notes	

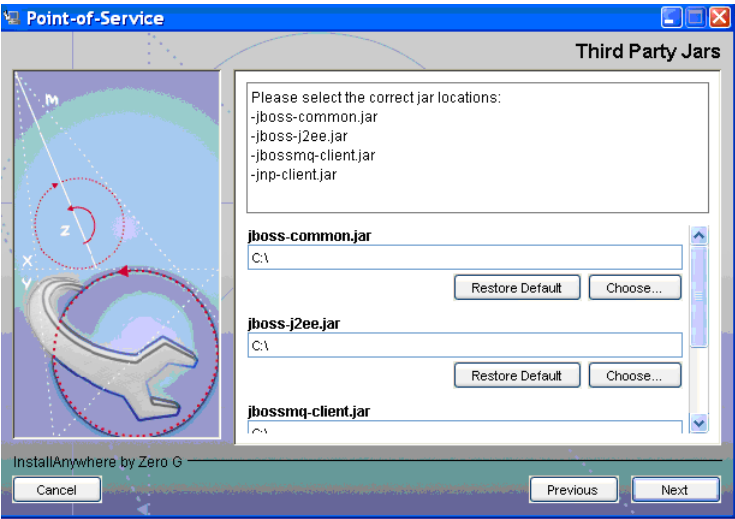
Figure A-10 Where is JRE 1.4.2 located?



The field on this screen is described in the following table.

Field Title	Folder
Field Description	Choose the location of JRE 1.4.2.
Destination	\$POS_INSTALL_DIR\$/pos/bin/posenv.bat
Example	C:\j2sdk1.4.2_06\jre
Notes	

Figure A-11 Third Party Jars



The fields on this screen are described in the following tables.

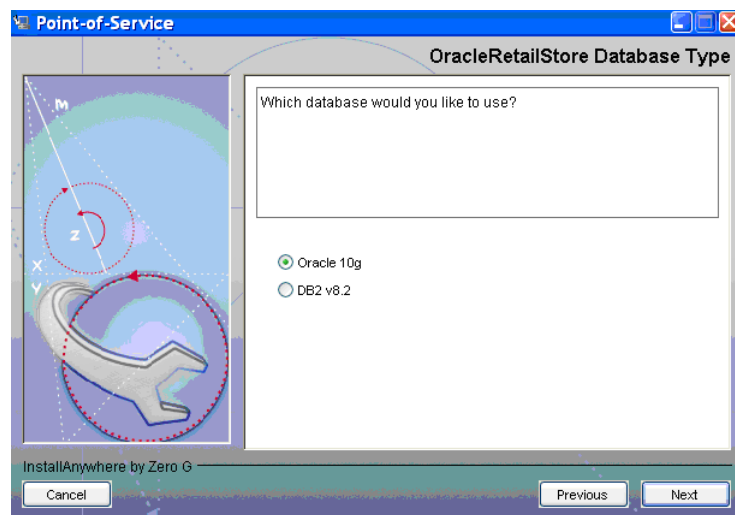
Field Title	jboss-common.jar
Field Description	Choose the location of the jboss-common.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/posenv.bat
Example	C:\jboss-4.0.2\lib\jboss-common.jar
Notes	

Field Title	jboss-j2ee.jar
Field Description	Choose the location of the jboss-j2ee.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/posenv.bat \$POS_INSTALL_DIR\$/pos/bin/db.properties
Example	C:\jboss-4.0.2\lib\jboss-j2ee.jar
Notes	

Field Title	jboss-client.jar
Field Description	Choose the location of the jboss-client.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/posenv.bat
Example	C:\jboss-4.0.2\lib\jboss-client.jar
Notes	

Field Title	jnp-client.jar
Field Description	Choose the location of the jnp-client.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/posenv.bat
Example	C:\jboss-4.0.2\lib\jnp-client.jar
Notes	

**Figure A-12 OracleRetailStore Database Type**

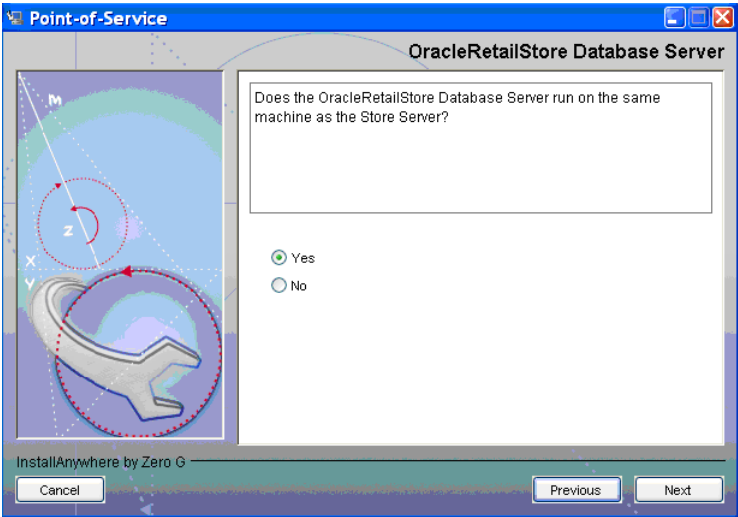




This screen is only displayed if **N-Tier Store Server** is selected for the Server Tier Type. The fields on this screen are described in the following table.

Field Title	Database Type
Field Description	Choose the database provider that is used for the OracleRetailStore database.
Destination	\$POS_INSTALL_DIR\$/pos/bin/db.properties
Example	Oracle 10g
Notes	

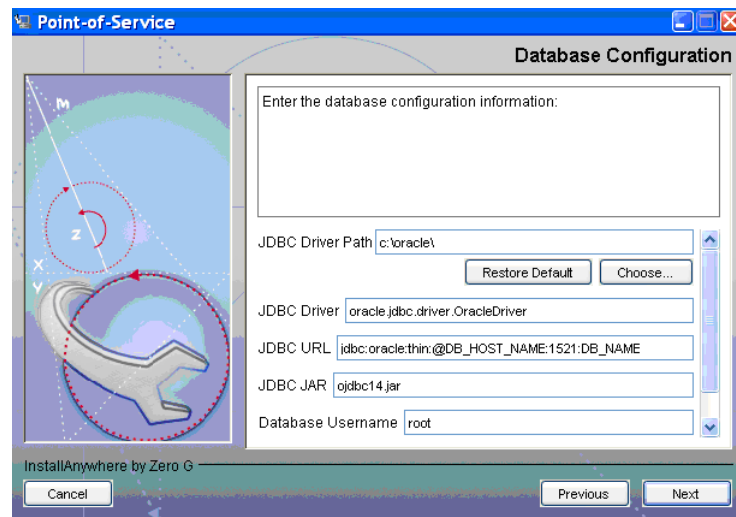
**Figure A-13** OracleRetailStore Database Server



The fields on this screen are described in the following table.

Field Title	Database Server
Field Description	Choose whether the OracleRetailStore database server runs on the same machine as the store server or on a separate, dedicated database server.  Note: Always select Yes. This is asking if a database tier is running on the same machine as the store server tier or on a different machine. Currently, the database tier always runs on the same tier as the store server.
Example	Yes
Notes	

**Figure A–14 Database Configuration**



This screen is not displayed if **N-Tier Client** is selected for the Server Tier Type. The fields on this screen are described in the following tables.

Field Title	JDBC Driver Path
Field Description	Path to the jar containing the database driver.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/DefaultDataTechnician.xml</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>C:/oracle</code>
Notes	

Field Title	JDBC Driver
Field Description	Database driver class name.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/DefaultDataTechnician.xml</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>oracle.jdbc.driver.OracleDriver</code>
Notes	

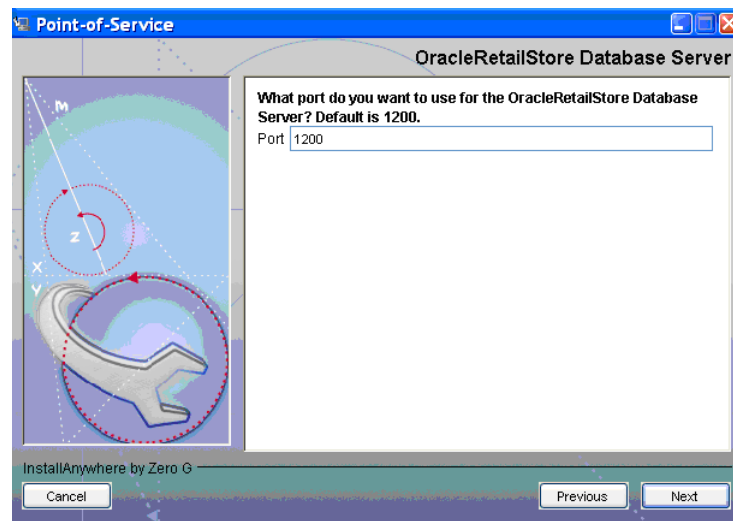
Field Title	JDBC URL
Field Description	URL used by the Point-of-Service application to access the database schema. For the expected syntax, see <a href="#">Appendix B</a> .
Destination	<pre>\$POS_INSTALL_DIR\$/pos/bin/db.properties &lt;installdirectory&gt;/pos/config/ DefaultDataTechnician.xml &lt;installdirectory&gt;/pos/config/ EnterpriseDataTechnician.xml</pre>
Example	<code>jdbc:oracle:thin:@myhost:1521:mydatabase</code>
Notes	

Field Title	JDBC Jar
Field Description	Path to the jar containing the database driver.
Destination	<pre>\$POS_INSTALL_DIR\$/pos/bin/db.properties &lt;installdirectory&gt;/pos/config/ DefaultDataTechnician.xml &lt;installdirectory&gt;/pos/config/ EnterpriseDataTechnician.xml</pre>
Example	<code>ojdbc14.jar</code>
Notes	

Field Title	Database User Name
Field Description	Database schema user used by the Point-of-Service application.
Destination	<pre>\$POS_INSTALL_DIR\$/pos/bin/db.properties &lt;installdirectory&gt;/pos/config/ DefaultDataTechnician.xml &lt;installdirectory&gt;/pos/config/ EnterpriseDataTechnician.xml</pre>
Example	<code>DBUSER</code>
Notes	

Field Title	Database Password
Field Description	Password for the database schema user used by the Point-of-Service application.
Destination	<pre>\$POS_INSTALL_DIR\$/pos/bin/db.properties &lt;installdirectory&gt;/pos/config/ DefaultDataTechnician.xml &lt;installdirectory&gt;/pos/config/ EnterpriseDataTechnician.xml</pre>
Example	<code>DB_PASSWORD</code>
Notes	

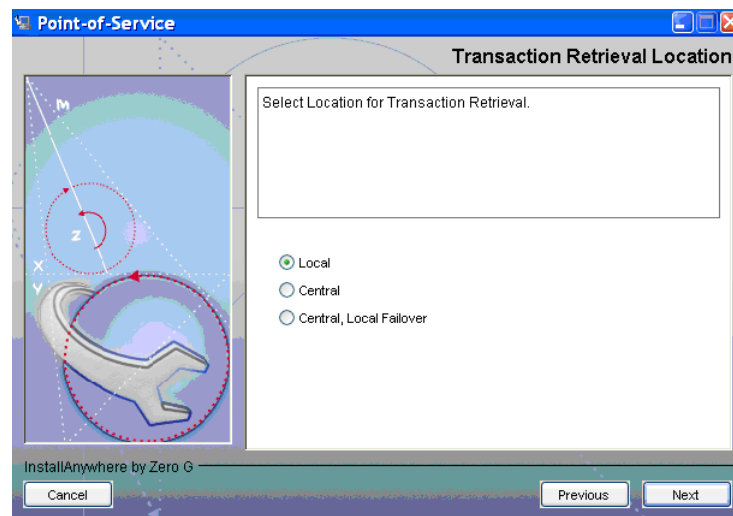
**Figure A–15 OracleRetailStore Database Server Port Number**



The field on this screen is described in the following table.

Field Title	Port
Field Description	Port number for connecting to the database server.
Example	1200
Notes	

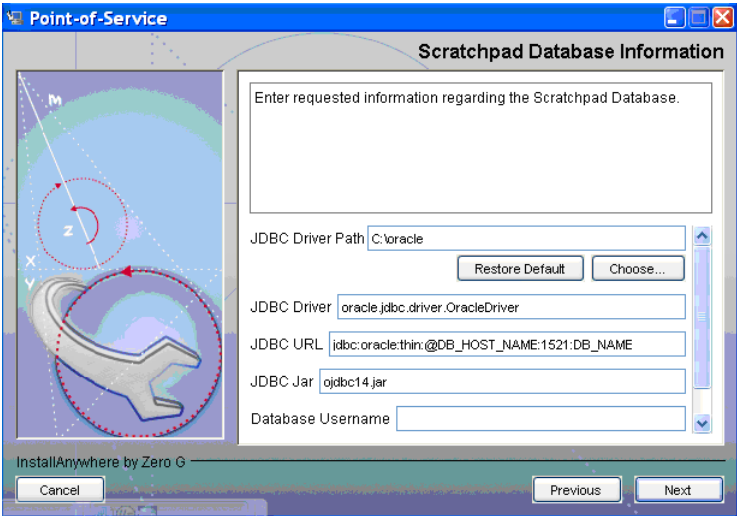
**Figure A–16 Transaction Retrieval Location**



The fields on this screen are described in the following table.

Field Title	Transaction retrieval location
Field Description	<p>Choose the location for retrieving transactions.</p> <ul style="list-style-type: none"> <li>■ If transactions should only be retrieved from the store database, choose <b>Local</b>.</li> <li>■ If transactions should only be retrieved from the corporate database, choose <b>Central</b>.</li> <li>■ If transactions should be retrieved from the corporate database, and if not found, then retrieved from the store database, choose <b>Central, Local Failover</b>.</li> </ul> <p>Note: You must choose the same location for both the store server and client installations.</p>
Example	Local
Notes	

**Figure A-17 Scratchpad Database Information**



This screen is only displayed if **Central** or **Local, Central Failover** is selected for the Transaction Retrieval Location and **N-Tier Store Server** is selected for the Server Tier Type. The fields on this screen are described in the following tables.

Field Title	JDBC Driver Path
Field Description	Path to the jar containing the database driver.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	C:/oracle
Notes	

Field Title	JDBC Driver
Field Description	Database driver class name.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>oracle.jdbc.driver.OracleDriver</code>

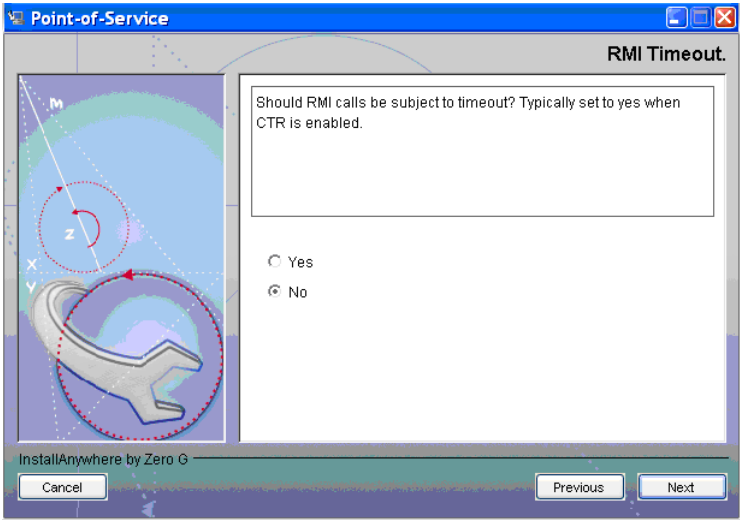
Field Title	JDBC URL
Field Description	URL used by the Point-of-Service application to access the database schema. For the expected syntax, see <a href="#">Appendix B</a> .
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>jdbc:oracle:thin:@myhost:1521:mydatabase</code>
Notes	

Field Title	JDBC Jar
Field Description	Path to the jar containing the database driver.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>ojdbc14.jar</code>
Notes	

Field Title	Database User Name
Field Description	Database schema user used by the Point-of-Service application.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>DBUSER</code>
Notes	

Field Title	Database Password
Field Description	Password for the database schema user used by the Point-of-Service application.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/db.properties</code> <code>&lt;installdirectory&gt;/pos/config/EnterpriseDataTechnician.xml</code>
Example	<code>DB_PASSWORD</code>
Notes	

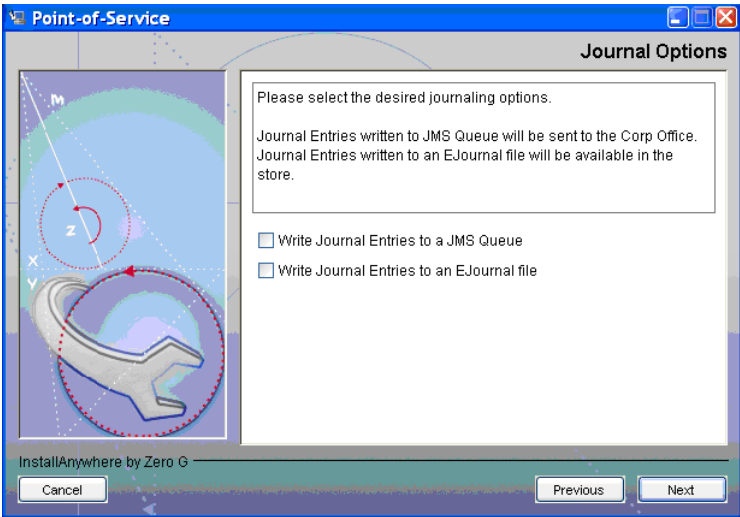
Figure A-18 RMI Timeout



This screen is only displayed if **Central** or **Local, Central Failover** is selected for the Transaction Retrieval Location and **N-Tier Client** is selected for the Server Tier Type. The fields on this screen are described in the following table.

Field Title	RMI timeout
Field Description	Choose whether RMI calls are subject to time out.  Note: For information on setting the RMI timeout interval, see the Oracle Retail Point-of-Service Operations Guide.
Destination	<code>\$POS_INSTALL_DIR\$/pos/bin/comm.properties</code>
Example	No
Notes	

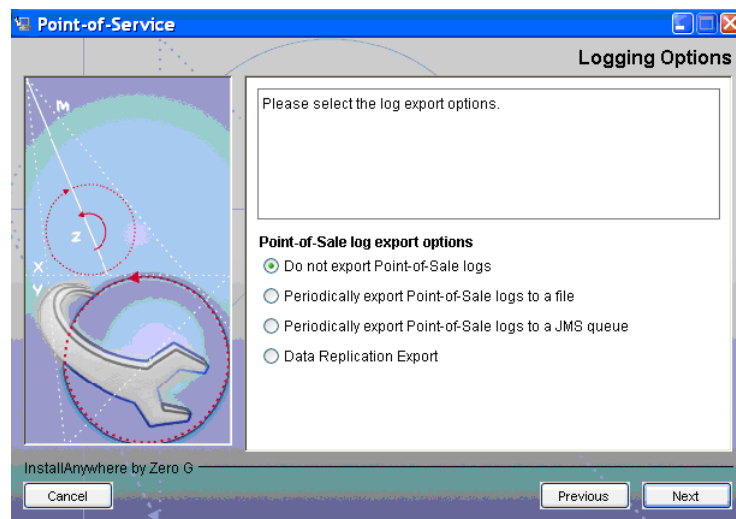
Figure A-19 Journal Options



This screen is only displayed if **N-Tier Store Server** is selected for the Server Tier Type. The fields on this screen are described in the following table.

Field Title	Journal options
Field Description	Choose where journal entries will be sent. <ul style="list-style-type: none"> <li>■ If you want the journal entries sent to a the JMS queue, choose <b>Write Journal Entries to a JMS Queue</b>.</li> <li>■ If you want the journal entries written to the EJournal file, choose <b>Write Journal Entries to an EJournal File</b>.</li> </ul>
Destination	\$POS_INSTALL_DIR\$/ pos/config/conduit/StoreServerConduit.xml
Example	Write Journal Entries to a JMS Queue
Notes	

**Figure A–20 Logging Options**

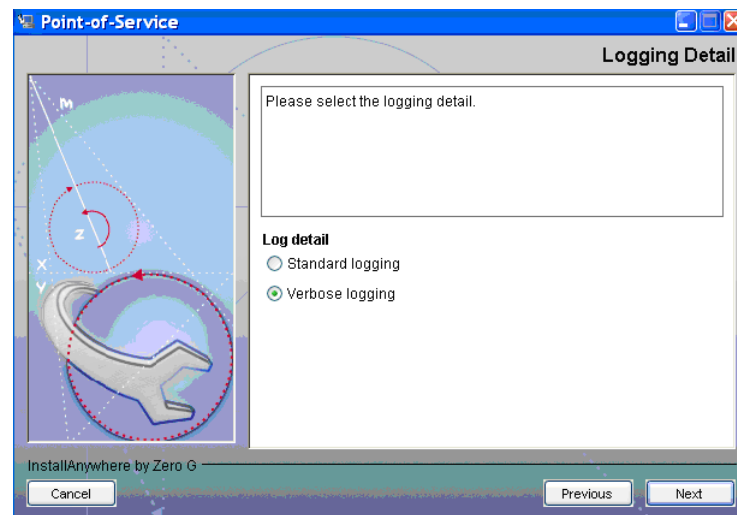


This screen is only displayed if **N-Tier Store Server** is selected for the Server Tier Type. The fields on this screen are described in the following table.



Field Title	Point-of-Sale log export options
Field Description	<p>Choose how the log is to be exported.</p> <ul style="list-style-type: none"> <li>■ To not generate any logs, choose <b>Do not export Point-of-Sale logs</b>.</li> <li>■ To export the logs to a file, choose <b>Periodically export Point-of-Sale logs to a file</b>.</li> <li>■ To export the logs to a JMS queue, choose <b>Periodically export Point-of-Sale logs to a JMS queue</b>.</li> <li>■ To have the data pushed from the store to the corporate database using replication, choose <b>Data Replication Export</b>.</li> </ul> <p>Note: If you are using Centralized Transaction Retrieval, you must select <b>Data Replication Export</b>.</p>
Destination	<code>\$POS_INSTALL_DIR\$/pos/config/conduit/StoreServerConduit.xml</code>
Example	Periodically export Point-of-Sale logs to a JMS queue
Notes	

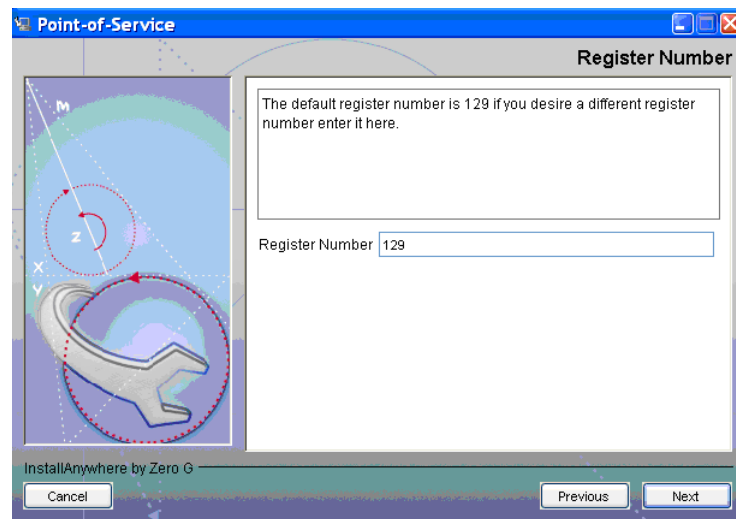
**Figure A–21** Logging Detail



The fields on this screen are described in the following table.

Field Title	Log detail
Field Description	<p>Choose the level of client logging.</p> <ul style="list-style-type: none"> <li>■ To only log some of the messages, choose <b>Standard Logging</b>.</li> <li>■ To log all of the messages, choose <b>Verbose Logging</b>.</li> </ul>
Example	Standard logging
Notes	

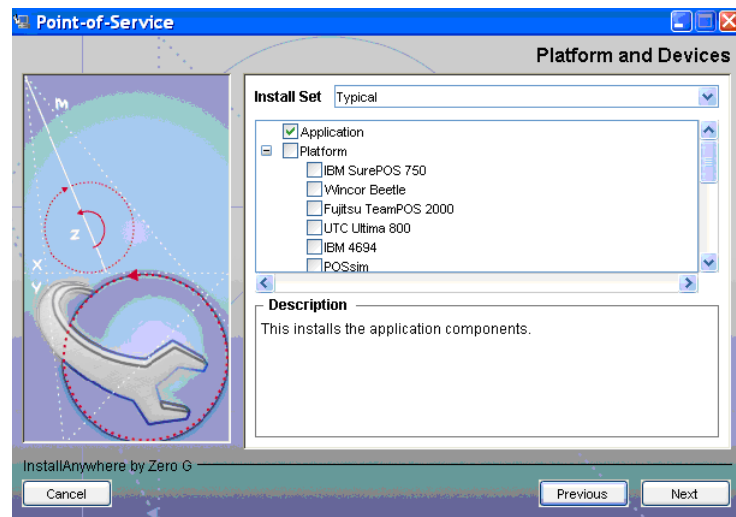
**Figure A-22 Register Number**



This screen is only displayed if **N-Tier Client** is selected for the Server Tier Type. The field on this screen is described in the following table.

Field Title	Register Number
Field Description	Register number for the client installation.
Example	129
Notes	

**Figure A-23 Platform and Devices**

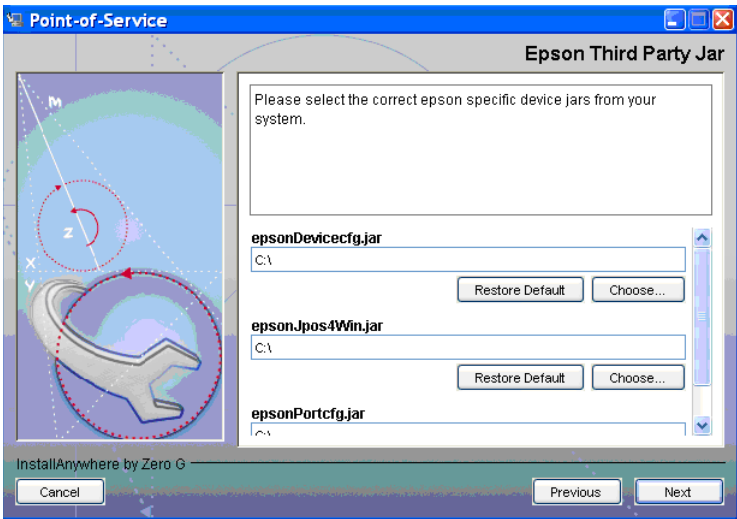


The fields on this screen are described in the following tables.

Field Title	Install Set
Field Description	Choose the install set from the menu. Choose the platforms and devices for the installation. <ul style="list-style-type: none"> <li>For a client install, choose the type of register or machine from the platforms.</li> <li>For a client install with devices, also choose the devices to be attached to the client register.</li> </ul>
Example	Typical
Notes	

Field Title	Description
Field Description	Description for this installation.
Example	Installation of the application components.
Notes	

**Figure A-24 Epson Third Party Jar**



This screen is only displayed if **N-Tier Client** is selected for the Server Tier Type and if required by the selection made for Platform and Devices. The fields on this screen are described in the following tables.

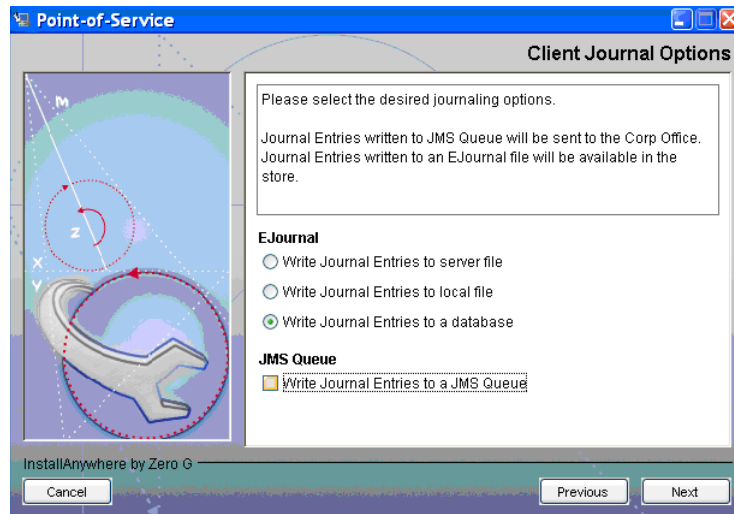
Field Title	epsonDevicecfg.jar
Field Description	Path to the epsonDevicecfg.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/epson.bat
Example	C:\epson\epsonDevicecfg.jar
Notes	

<b>Field Title</b>	<b>epsonJpos4Win.jar</b>
Field Description	Path to the eposnJpos4Win.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/epson.bat
Example	C:\epson\epsonJpos4Win.jar
Notes	

<b>Field Title</b>	<b>epsonPortcfg.jar</b>
Field Description	Path to the eposnPortcfg.jar file.
Destination	\$POS_INSTALL_DIR\$/pos/bin/epson.bat
Example	C:\epson\epsonPortcfg.jar
Notes	

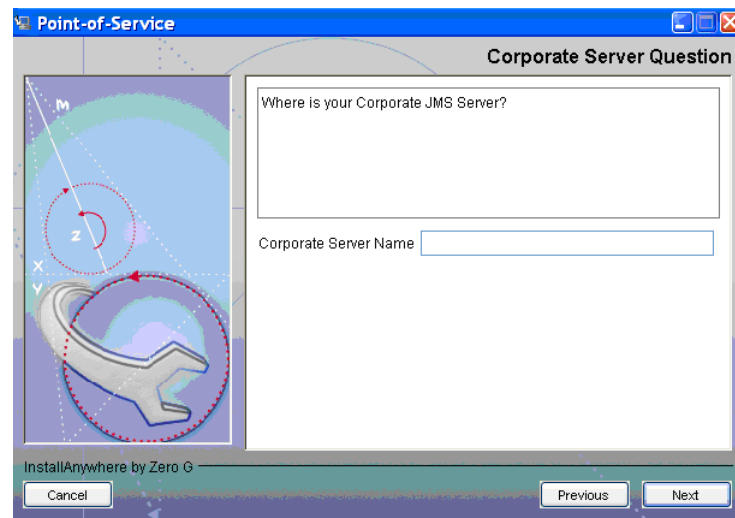
**Figure A–25 Client Journal Options**



This screen is only displayed if **N-Tier Client** is selected for the Server Tier Type. The fields on this screen are described in the following table.

Field Title	Ejournal
Field Description	<p>Choose where the journal entries are to be written.</p> <ul style="list-style-type: none"> <li>■ To write journal entries to a server file, choose <b>Write Journal Entries to server file</b>.</li> <li>■ To write journal entries to a local file, choose <b>Write Journal Entries to local file</b>.</li> <li>■ To write journal entries to a database, choose <b>Write Journal Entries to a database</b>.</li> <li>■ To put journal entries on a JMS queue, choose <b>Write Journal Entries to a JMS queue</b>.</li> </ul>
Destination	\$POS_INSTALL_DIR\$/ pos/config/conduit/ClientConduit.xml
Example	Write Journal Entries to a JMS queue
Notes	

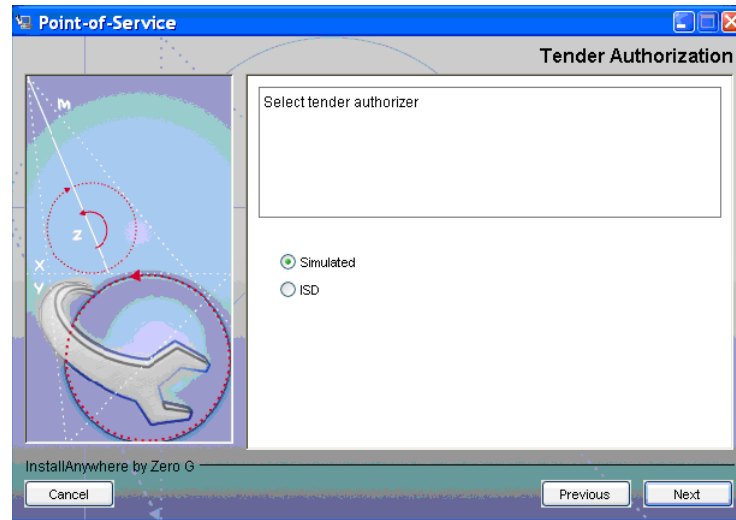
**Figure A–26 Corporate Server Question**



This screen is only displayed if **Central** or **Local**, **Central Failover** is selected for the Transaction Retrieval Location and **N-Tier Store Server** is selected for the Server Tier Type. The field on this screen is described in the following table.

Field Title	Corporate Server Name
Field Description	Enter the server name for the Central Office application.
Destination	\$POS_INSTALL_DIR\$/ pos/config/centraloffice.jndi.properties
Example	rhnode01
Notes	

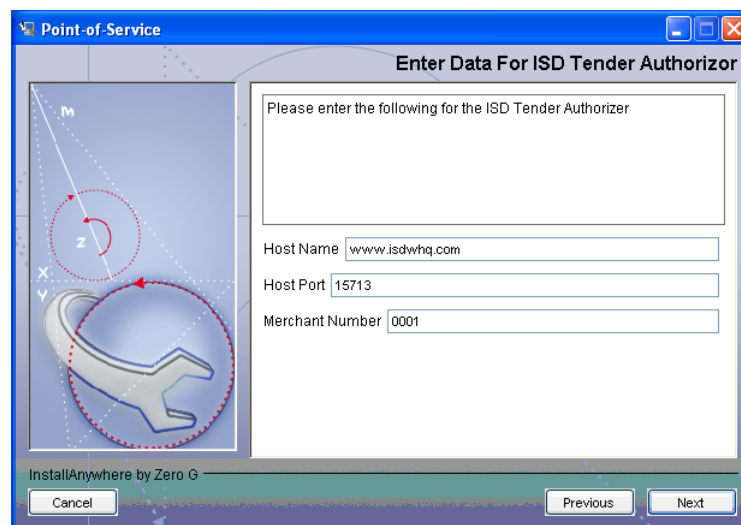
**Figure A-27 Tender Authorization**



The fields on this screen are described in the following table.

Field Title	Tender Authorizer
Field Description	<p>Choose where tender authorizations are sent.</p> <ul style="list-style-type: none"> <li>■ If approvals do not leave the store server and are based on values and certain numbers, choose <b>Simulated</b>.</li> <li>■ If approvals are sent to a third party system to approve the authorizations, choose <b>ISD</b>.</li> </ul> <p>Note: Demo installations should use the Simulated option.</p>
Destination	\$POS_INSTALL_DIR\$/pos/conduit/StoreServerConduit.xml
Example	Simulated
Notes	

**Figure A-28 Enter Data for ISD Tender Authorizer**



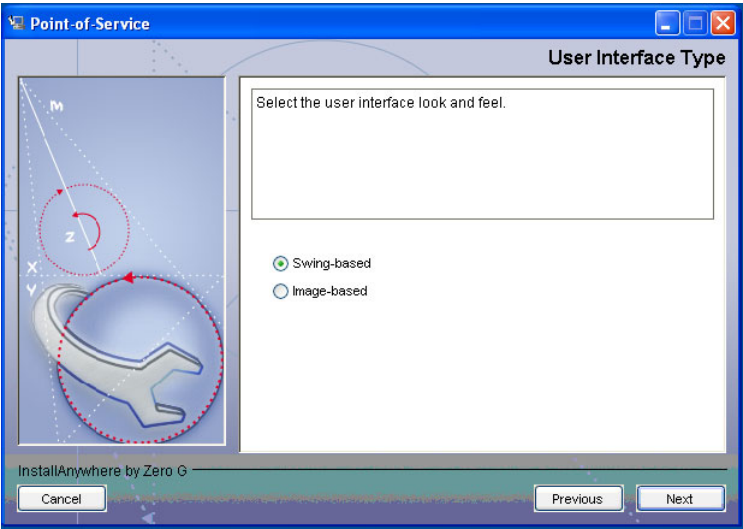
This screen is only displayed if **ISD** is selected for the Tender Authorization. The fields on this screen are described in the following tables.

Field Title	Host Name
Field Description	Host name of the tender authorizer.
Destination	\$POS_INSTALL_DIR\$/pos/conduit/StoreServerConduit.xml
Example	www.isdwhq.com
Notes	

Field Title	Host Port
Field Description	Port number used for the communication between the store server and the tender authorizer.
Destination	\$POS_INSTALL_DIR\$/pos/conduit/StoreServerConduit.xml
Example	15713
Notes	

Field Title	Merchant Number
Field Description	Number used by the tender authorizer to identify the merchant that requested the authorization.
Destination	\$POS_INSTALL_DIR\$/pos/conduit/StoreServerConduit.xml
Example	0001
Notes	

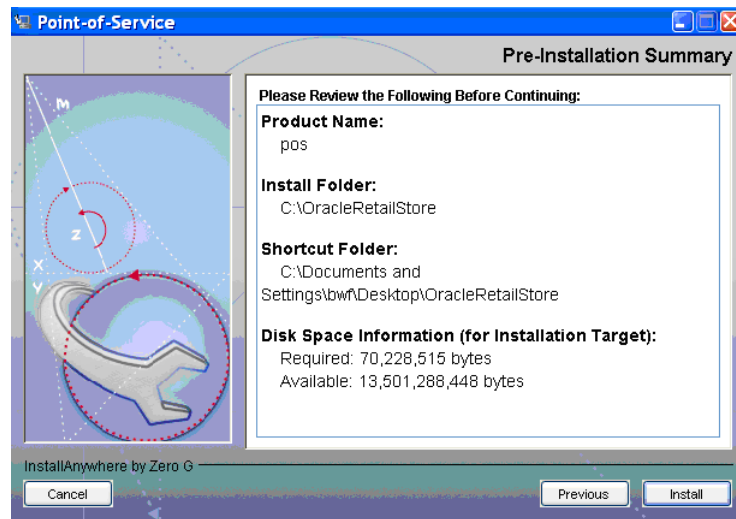
**Figure A–29    User Interface Type**



This screen is only displayed if **N-Tier Client** is selected for the Server Tier Type. The fields on this screen are described in the following table.

Field Title	User Interface Type
Field Description	Choose the user interface look and feel. <ul style="list-style-type: none"> <li>■ To use a standard swing interface, choose <b>Swing-based</b>.</li> <li>■ To use custom images for buttons and other graphics, choose <b>Image-based</b>.</li> </ul>
Destination	\$POS_INSTALL_ DIR\$/pos/conduit/ClientServerConduit.xml
Example	Swing-based
Notes	

**Figure A–30 Pre-Installation Summary**





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## Appendix: URL Reference

Both the database schema and application installers for the Point-of-Service product will 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

For example, `jdbc:oracle:thin:@myhost:1521:mysid`



---

## Appendix: Common Installation Errors

This appendix describes some common errors encountered during installation of Point-of-Service.

### "Pos installer finished with errors"

If you see this error message, there could be some settings incorrectly set or problems with the installer itself. For more information, check the `$POS_INSTALL_DIR$/pos/logs/installer_log.txt` file.

### "Dispatcher.main, Exception: java.security.AccessControlException: access denied (java.util.PropertyPermission \* read,write)" Message

#### Symptom:

The application dies when starting up:

```
[java] Dispatcher.main, Exception: java.security.AccessControlException: access
denied (java.util.PropertyPermission * read,write)
[java] java.security.AccessControlException: access denied
(java.util.PropertyPermission * read,write)
[java]     at java.security.AccessControlContext.checkPermission(Unknown
Source)
[java]     at java.security.AccessController.checkPermission(Unknown Source)
[java]     at java.lang.SecurityManager.checkPermission(Unknown Source)
[java]     at java.lang.SecurityManager.checkPropertiesAccess(Unknown Source)
[java]     at java.lang.System.getProperties(Unknown Source)
[java]     at
com.extendyourstore.foundation.tour.conduit.Dispatcher.<init>(Dispatcher.java:461)
[java]     at
com.extendyourstore.foundation.tour.conduit.Dispatcher.getDispatcher(Dispatcher.ja
va:1301)
[java]     at
com.extendyourstore.foundation.tour.conduit.Dispatcher.main(Dispatcher.java:2439)
[java]     at
com.extendyourstore.foundation.config.TierLoader.main(TierLoader.java:359)
```

#### Solution:

This error usually occurs because the JRE that you are pointing to does not contain the updated `java.security` and `java.policy` files.

## "java.lang.NoClassDefFoundError: javax/ejb/CreateException" Warning

### Symptom:

The following text appears when trying to build the flat files:

```
buildff:
[java] java.lang.NoClassDefFoundError: javax/ejb/CreateException
[java] at com.extendyourstore.foundation.config.TierLoader.main(TierLoa
der.java:363)
[java] Exception in thread "main"
```

Or this text appears.

```
Exception in thread "main" java.lang.NoClassDefFoundError: javax/ejb/CreateExcep
tion
    at com.extendyourstore.foundation.tour.conduit.DispatcherLoader.loadComp
onent(DispatcherLoader.java:112)
    at com.extendyourstore.foundation.config.TierLoader.loadTier(TierLoader.
java:300)
    at com.extendyourstore.foundation.config.TierLoader.main(TierLoader.java
:359)
```

### Solution:

You have set the `jboss-j2ee.jar` incorrectly. This needs to be fixed in the `db.properties` and `posenv.bat` files.