

**Oracle® Retail Value Chain Collaboration**  
Installation Guide  
Release 13.0.4

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

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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

## Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

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Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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## Related Documents

For more information, see the following documents in the Oracle Retail Value Chain Collaboration Release 13.0.4 documentation set:

- Oracle Retail Value Chain Collaboration Release Notes

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## Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:  
<https://support.oracle.com>

When contacting Customer Support, please provide the following:

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

## Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 13.0) or a later patch release (for example, 13.0.4). If you are installing the base release and additional patch and bundled hot fix releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch and bundled hot fix releases can contain critical information related to the base release, as well as information about code changes since the base release.

## Oracle Retail Documentation on the Oracle Technology Network

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

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

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

## Conventions

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

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



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## Preinstallation Tasks

Prior to installing value Chain Collaboration products, review the requirements listed below. Verify that these requirements are met and that the hardware will adequately run the software to be installed, as well as process the anticipated volume of data.

Terms	Description
Database Server	Database software requirements.
Application server	Operating system software and development tools and a list of hardware choices.
Web Browser	Supported OS/Browser/Java plug-in requirement

### VCC Database Server

General Requirements for a database server running VCC include:

**Supported on:    Versions Supported:**

Database Server OS	<p>OS certified with Oracle Database 10g Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> <li>▪ AIX5.2</li> <li>▪ AIX5.3</li> <li>▪ Solaris 10</li> </ul> <p>OS certified with Oracle Database 11g Enterprise Edition:</p> <ul style="list-style-type: none"> <li>▪ Oracle Enterprise Linux 5 Update 3</li> </ul>
Database Server (Oracle 10g R2)	<p>Oracle Database 10g Release 2 Enterprise Edition (minimum 10.2.0.2.0 patchset required) with the following patches and components:</p> <p>Patches:</p> <ul style="list-style-type: none"> <li>▪ 4516865 (WRONG PERMISSIONS AFTER INSTALLATION IN OH AND SUBSEQUENT DIRECTORIES)</li> </ul> <p>Components:</p> <ul style="list-style-type: none"> <li>▪ Oracle Database 10g</li> <li>▪ Oracle Partitioning</li> <li>▪ Oracle Net Services</li> <li>▪ Oracle Call Interface (OCI)</li> <li>▪ Oracle Programmer</li> <li>▪ Oracle XML Development Kit</li> </ul>
Database Server (Oracle 11g R2)	<p>Oracle Database 11g Release 2 (11.2.0.1) Enterprise Edition with the following components:</p> <ul style="list-style-type: none"> <li>▪ Oracle Partitioning</li> <li>▪ Example CD</li> </ul> <p>Patches:</p> <ul style="list-style-type: none"> <li>▪ 9582272 - ORA-600 [KKDLREADONDISKDEFVAL: ERROR] OCCURS WHEN ALTER TRIGGER IS EXECUTED.</li> </ul> <p>The following 2 patches need to be applied together in order to correct the JDBC bug:</p>

**Supported on: Versions Supported:**

- 9367425 -- PROCESS CRASHED WHEN USING 11GR2 JDBC/OCI
- 9495959 -- HANG WHEN TWO THREADS TRY TO CREATE THE ENV HANDLE AT THE SAME

Others components:

- Perl compiler 5.0 or later
- X-Windows interface

## VCC Application Server

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

**Supported on:**

Application Server OS

**Versions Supported:**

OS certified with Oracle Application Server 10g 10.1.3.4. Options are:

- AIX 5.2
- AIX 5.3
- Solaris 10
- Oracle Enterprise Linux 5 Update 3

Application Server

Oracle Application Server 10g 10.1.3.4 with the following patches:

- 4992357 (ILLEGAL ACCESSERROR WHEN ATTEMPTING TO LOAD ORACLE.SQL.CHARACTERSET CLASS)
- 4959854 (CANNOT RESTART MDB THROUGH OC4J AS CONSOLE)
- 4645524 (RETEK: RMIINITIALCONTEXTFACTORY DOES NOT WORK PROPERLY WITH GLOBAL JNDI)
- 4619599 (ABILITY TO CONTROL MDBS INITIAL STATE)

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

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## Web Browser and Client Requirements

General requirements for client running VCC include:

<b>Product</b>	<b>Version</b>
Operating System	Windows 2000 or XP
Processor	minimum 1GHz
Display resolution	1024x768 resolution
Memory	minimum of 512MBytes
Networking	Intranet with at least 10Mbps data rate
JRE Plug-in	Sun JRE 1.5.10 or higher 32 bit
Browser	Microsoft Internet Explorer; version 5.5 or higher

## Create a UNIX User Account to Install the Software

The following user should be created on both the application and database servers.

Create a UNIX group named "dev".

Create UNIX user named "oretail" and assign it to the "dev" group. This user will install the VCC software

## Create Staging Directory for VCC Database Files

Log into the database server as oretail.

Create a staging directory for the VCC database installation software. There should be a minimum of 100 MB disk space available in this location.

Copy the vcc13dbserver.zip file from the CD/dbserverunix directory to the staging directory. This is referred to as INSTALL\_DIR when installing database software.

Change directories to INSTALL\_DIR and extract the vcc13dbserver.zip file.



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## Database Installation Tasks

### Create the VCC Database

It is assumed that Oracle Database 10g Release 2 or Oracle Database 11g Release 2, with appropriate patches, has already been installed. If not, refer to “*Check Database Server Requirements*” in Chapter 1, “Preinstallation Tasks” before proceeding. Additionally, *INSTALL\_DIR* in this section refers to the directory created in “*Create Staging Directory for VCC Database Files*”, Chapter 1.

If a database has already been created, it is necessary to review the contents of this section to determine if all database components have been installed and configured properly. Also refer to Appendices G & H.

### Create the Database

- Login to UNIX as the Oracle user; typically the user that owns the Oracle Database software.
- Create the Oracle recommended OFA directory structure for the database (datafile directories, adump, bdump, cdump, arch, create, exp, pfile, udump, utl\_file\_dir)
- Place an entry in the oratab file for the database and execute oraenv to set the ORACLE\_SID and ORACLE\_HOME environment variables.
- Copy *INSTALL\_DIR/create\_db/init.ora* to the *\$ORACLE\_HOME/pfile* directory and rename it to *init\${ORACLE\_SID}.ora*. Modify the parameters according to guidelines specified in this file.
- Create a symbolic link from *\$ORACLE\_HOME/pfile/init\${ORACLE\_SID}.ora* to *\$ORACLE\_HOME/dbs/init\${ORACLE\_SID}.ora*.
- Modify the *INSTALL\_DIR/create\_db/crdb1.sql* file. Refer to comments in this file regarding modifications that need to be made.
- Login to SQL\*Plus as SYSDBA and execute *INSTALL\_DIR/create\_db/crdb1.sql*. Review *crdb1.log* for errors and correct as needed.
- Login to SQL\*Plus as SYSDBA and execute *INSTALL\_DIR/create\_db/crdb2.sql*. Review *crdb2.log* for errors and correct as needed.
- Login to SQL\*Plus as SYSDBA and execute *INSTALL\_DIR/create\_db/crdb3.sql*. Review *JServer.log*, *context.log* and *xdb\_protocol.log* for errors and correct as needed.
- Configure the listener. The VCC application uses external procedure calls. Therefore, the *listener.ora* and *tnsnames.ora* files must be configured properly. Refer to Appendix I.

## Create the Tablespaces

### Tablespace: SYNCRA\_DATA

Execute this query to create a tablespace in the sqlprompt.

```
CREATE TABLESPACE "SYNCRA_DATA"  
  LOGGING  
  DATAFILE '/files3/oradata/cssyncra/syncra_data.dbf' SIZE  
  5000M REUSE AUTOEXTEND  
  ON NEXT 128M MAXSIZE 5000M, '/files3/oradata/cssyncra/  
  Syncra_data02.dbf' SIZE 3244288K REUSE AUTOEXTEND  
  ON NEXT 8K MAXSIZE 5000M, '/files5/oradata/cssyncra/  
  Syncra_data03.dbf' SIZE 3294720K REUSE AUTOEXTEND  
  ON NEXT 8K MAXSIZE 5000M, '/files3/oradata/cssyncra/  
  Syncra_data04.dbf' SIZE 5000M REUSE AUTOEXTEND  
  ON NEXT 100M MAXSIZE 5000M, '/files3/oradata/cssyncra/  
  Syncra_data05.dbf' SIZE 5000M REUSE AUTOEXTEND  
  ON NEXT 100M MAXSIZE 5000M, '/files3/oradata/cssyncra/  
  Syncra_data06.dbf' SIZE 700M REUSE AUTOEXTEND  
  ON NEXT 100M MAXSIZE 5000M EXTENT MANAGEMENT LOCAL SEGMENT  
  SPACE MANAGEMENT AUTO
```

**Path:** Change the folder path (Block letters in the query) according to your machine where this tablespace has to be saved.

A minimum of ONE datafile is required for a tablespace. If space permits then you can have all datafiles in this tablespace, else just one would be sufficient.

### Tablespace: SYNCRA\_INDEX

```
CREATE TABLESPACE "SYNCRA_INDEX"  
  LOGGING  
  DATAFILE '/files5/oradata/cssyncra/syncra_index_01.dbf' SIZE  
  5000M REUSE AUTOEXTEND  
  ON NEXT 128M MAXSIZE 5000M, '/files5/oradata/cssyncra/  
  Syncra_index02.dbf' SIZE 3177M REUSE AUTOEXTEND  
  ON NEXT 8K MAXSIZE 5000M, '/files8/oradata/cssyncra/  
  Syncra_index03.dbf' SIZE 3226112K REUSE AUTOEXTEND  
  ON NEXT 8K MAXSIZE 5000M, '/files5/oradata/cssyncra/  
  Syncra_index04.dbf' SIZE 5000M REUSE AUTOEXTEND  
  ON NEXT 100M MAXSIZE 5000M, '/files8/oradata/cssyncra/  
  Syncra_index05.dbf' SIZE 5000M REUSE AUTOEXTEND  
  ON NEXT 100M MAXSIZE 5000M, '/files8/oradata/cssyncra/  
  Syncra_index06.dbf' SIZE 800M REUSE AUTOEXTEND  
  ON NEXT 100M MAXSIZE 5000M EXTENT MANAGEMENT LOCAL SEGMENT  
  SPACE MANAGEMENT AUTO
```

**Path:** Change the folder path (Block letters in the query) according to where you wish to place the tablespace in your machine.

A minimum of ONE datafile is required for a tablespace. If space permits then you can have all datafiles in this tablespace, else just one would be sufficient.

**Tablespace: SYNCRA\_TEMP**

```
CREATE TEMPORARY TABLESPACE "SYNCRA_TEMP"
  LOGGING
  DATAFILE '/files5/oradata/cssyncra/syncra_temp_01.dbf' SIZE
  3584M REUSE AUTOEXTEND
  ON NEXT 128M MAXSIZE 5000M EXTENT MANAGEMENT LOCAL SEGMENT
  SPACE MANAGEMENT AUTO
```

**Path:** Change the folder path (Block letters in the query) according to your machine where to place the tablespace.

A minimum of ONE datafile is required for a tablespace. If space permits then you can have all datafiles in this tablespace, else just one would be sufficient.

**Create the Schema Owner**

Create an Oracle schema that will own the VCC application.

Change directories to `INSTALL_DIR/vcc/dbschema/Oracle/setup`.

- Log into sqlplus as sysdba

Enter the following command to create the schema owner.

- `SQL> @setup.sql`

The following prompts will appear:

**Example:**

```
Schema owner login   : vcc (your choice)
Schema owner passwd : vcc (your choice)
Default tablespace  : SYNCRA_DATA (Mandatory same name)
TEMP tablespace     : Syncra_temp (same)
```

Check the log file `setup.log` for any errors.

**Create VCC Objects**

1. Change directories to `INSTALL_DIR/vcc/dbschema/Oracle/lib`.
2. Log into sqlplus as the VCC schema owner and run the following command:  
`SQL> @create_config.sql`
3. Check the log file for any errors.
4. Log into sqlplus as the VCC schema owner and run the following command:  
`SQL> @syncra_build.sql`
5. Check the log file for any errors.

## Migration from VCC 12.0.3 to VCC 13.0

**Note:** If this is a new install and no data needs to be migrated from an existing VCC install proceed to Chapter 3.

1. Export the 12.0.3 dataset and import into Oracle 10g.
2. Set NLS\_LANG=\_.UTF8.
3. Change directories to INSTALL\_DIR/vcc/dbschema/Oracle/scripts.
4. Log into sqlplus as the VCC schema owner for the 12.1 schema and run the following commands:  
SQL> @../lib/syncra\_mig.sql
5. Check the log file for any errors.

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## Application Installation

Points to take note before installation:

- You must install Oracle Application Server 10g 10.1.3.4 plus the patches listed in the Chapter 1 of this guide.
- Oracle Database to be configured and loaded with the appropriate VCC schema for your installation
- The VCC application will be deployed to an OC4J instance within the Oracle Application Server installation. It is assumed that Oracle Database has already been configured and loaded with the appropriate VCC schema for your installation.

### Create a New OC4J Instance for VCC

You can skip this section if you are re-deploying to an existing OC4J instance.

The VCC application must be deployed to its own dedicated OC4J instance. For instructions on how to create a new OC4J 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 installation. Set your ORACLE\_HOME environment variable to point to this installation.

Choose a name for the new OC4J instance.

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**Example:** vcc-oc4j-instance

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

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**Example:** \$ORACLE\_HOME/bin/createinstance  
-instanceName vcc-oc4j-instance

---



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

2. Set the force option for OC4J shutdown in \$ORACLE\_HOME/opmn/conf/opmn.xml. This option should be in the process id section of the instance just created added.

**Example:**

```
<process-type id= "vcc-oc4j-instance" module-id= "OC4J" status="enabled">
...
<category id="stop-parameters">
  <data id="java-options" value=" . . . " />
  <data id="oc4j-options" value="force"/>
</category>
```

3. The opmn process should be reloaded.

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

4. Start the OC4J instance. 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 startproc process-type=vcc-oc4j-instance`

5. Verify that the OC4J instance 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.

## Expand the VCC Application Distribution

1. Log into the UNIX server as the user who owns the Oracle Application Server installation. Create a new staging directory for the VCC application distribution (`vcc13application.zip`). There should be a minimum of 120 MB disk space available for the application installation files.

**Example:** `$ORACLE_HOME/j2ee/vcc-oc4j-instance/vcc-staging`

This location is referred to as `INSTALL_DIR` for the remainder of this chapter. Copy `vcc13application.zip` to `INSTALL_DIR` and extract its contents.

## Run the VCC Application Installer

Once you have an OC4J instance that is configured and started, you can run the VCC application installer. This installer configures and deploys the VCC application.

**Note:** Appendix A contains details on every screen and field in the application installer.

2. Change directories to `INSTALL_DIR/vcc/application`.
3. Set the `ORACLE_HOME` and `JAVA_HOME` environment variables. `ORACLE_HOME` should point to your OracleAS installation. `JAVA_HOME` should point to the Java 1.5.10 JDK located at `$ORACLE_HOME/jdk`. The installer is not compatible with earlier versions of Java.
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. Run the `install.sh` script. This launches the installer. After installation is completed, a detailed installation log file is created: `vcc13install-app.<timestamp>.log`.

## 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 don't have to retype the settings for your environment. See Appendix C of this document for instructions on silent mode.

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

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

## Configuring VCC

Once you have completed the install you must configure the following components:

- VCC Database
- VCC servers, including the Application Server and the Scheduler
- VCC Client
- Syncra Xt Integrator

The VCC Configuration Program should start automatically after the Application installer is complete. You can use these steps to start the VCC Configuration Program manually:

1. Prior to opening the VCC configuration program, make sure that the VCC server is not running. If the VCC server is running, stop the server before proceeding.
2. Change the working directory to `<VCC_HOME>/vcc-bin`.
3. Run the `configurator.sh` script. This launches the VCC configuration program.

---

---

**Note:** Appendix B contains details on screens and fields in the VCC Configuration Program.

---

---

The `configuration.xml` file contains most of the settings for the VCC application. Many parameters in this file are set by the installer to get a working application up and running, but you may want to modify other settings in this file. You can modify `configuration.xml` using the VCC Configuration Program. See the *VCC Operations Guide* regarding the settings in `configuration.xml`.

## 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>/vcc/application/vcc13/configured-output/`.

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

1. Make sure there have not been any application server configuration changes since the installer was run. You can do this by comparing the backup files created by the installer in the staging area to the same files in the application server.

---

---

```
Example: diff <INSTALL_DIR>/  
application/vcc13/configured-output  
/appserver/ORACLE_HOME/j2ee/<myinstance>/config/j  
azn.xml.200710300919  
$ORACLE_HOME/j2ee/<myinstance>/config/jazn.xml
```

---

---

If there are changes to the application server's configuration file, they should be merged into the local copy under configured-output before proceeding to the next step.

2. Inspect the contents of the <INSTALL\_DIR>/vcc/application/vcc13/configured-output/appserver/ORACLE\_HOME directory, and then overlay the files in the application server's ORACLE\_HOME, using the same directory structure. This installs library files required by the application and required application server configuration changes.
3. Restart the OC4J group where VCC will be deployed.

---

---

```
Example: $ORACLE_HOME/opmn/bin/opmnctl @cluster  
restartproc ias-component=vcc_group
```

---

---

4. Deploy the VCC ear file to the OC4J group using the Enterprise Manager web interface. The configured ear file is located at <INSTALL\_DIR>/vcc/application/vcc13/configured-output/vcc.ear. When deploying the ear file, you should provide the same application name you gave to the installer. These values are stored in the <INSTALL\_DIR>/vcc/application/ant.install.properties file by the installer for later reference.
5. Set up JAAS configuration using the jazn.jar tool located under \$ORACLE\_HOME/j2ee/home/.
6. Restart the VCC OC4J group again.

## Backups Created by Installer

The VCC application installer backs up the previous vcc-\* directories by renaming them with a timestamp suffix. 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: vcc-bin.200605011726
```

---

---

## Test the VCC Application

After the application installer completes you should have a working VCC application installation. To launch the application, open a web browser and go to <http://host:httpport/contextroot>.

---

---

```
Example: http://myhost:7777/vcc
```

---

---

## VCC Batch Scripts

The VCC application installer configures and installs the batch scripts under ORACLE\_HOME/j2ee/<instance>/vcc-bin.

## WebHelp Files

The application installer automatically deploys the WebHelp content under a context root equal to the application context root with “-help” appended.

**Example:** http://myhost:7777/vcc-help



## Appendix: VCC Application Installer Screens

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

### Screen: App Server ORACLE\_HOME

The screenshot shows a window titled "Value Chain Collaboration Installer - Oracle Retail". The window has a blue header with the Oracle logo. Below the header, the title "App Server ORACLE\_HOME" is displayed. The main content area contains the text "Please provide your OracleAS ORACLE\_HOME directory" and a text input field containing the path "/u01/webbuild/product/10.1.3/OracleAS\_2/". At the bottom of the window, there are four buttons: "Cancel", "Back", "Next", and "Install".

#### Fields on this screen:

<b>Field Title</b>	<b>ORACLE_HOME</b>
<b>Field Description</b>	Path to your Oracle Application Server installation. Defaults to the value of the ORACLE_HOME environment variable.
<b>Example</b>	/u00/oracle/product/10.1.3/OracleAS_1

**Screen: Data Source Details**

**Value Chain Collaboration Installer - Oracle Retail**

**ORACLE**

**Data Source Details**

Provide the details for the VCC data source

Database host

Database port

Database SID

Schema

Schema password

Cancel Back Next Install

**Fields on this screen:**

<b>Field Title</b>	<b>Database Host</b>
Field Description	Host on which the database is running
Destination	Configuration.xml
Example	Mydbhost

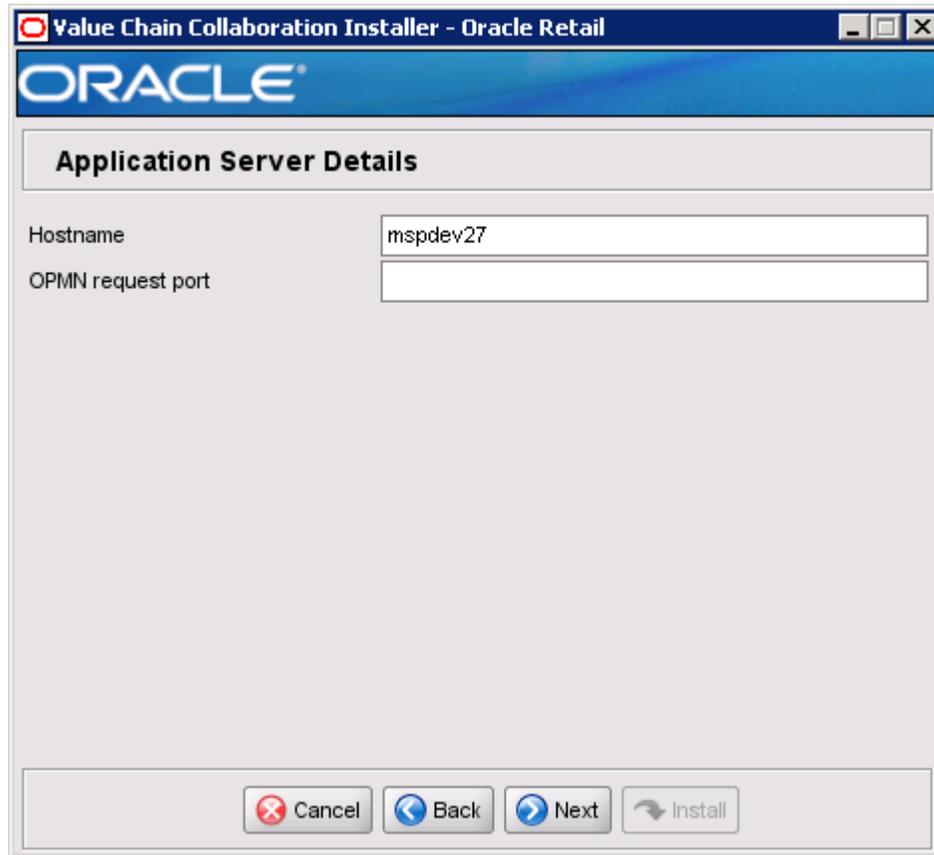
<b>Field Title</b>	<b>Database Port</b>
Field Description	Database listener port.
Destination	configuration.xml
Example	1521

<b>Field Title</b>	<b>Database SID</b>
Field Description	System identifier for the database
Destination	configuration.xml
Example	vccdb01

<b>Field Title</b>	<b>Schema</b>
Field Description	Database schema where the VCC tables have been installed.
Destination	configuration.xml
Example	VCC13

<b>Field Title</b>	<b>Schema password</b>
Field Description	Password for the VCC database schema.
Destination	configuration.xml

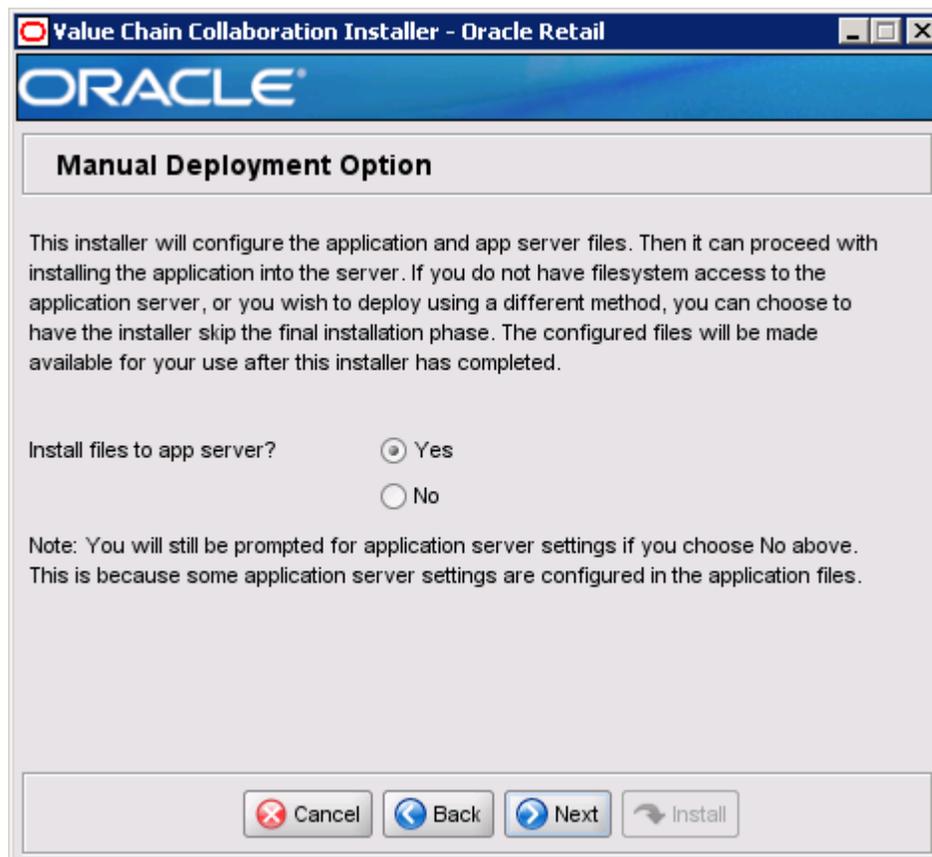
**Screen: Application Server Details**



**Fields on this screen:**

<b>Field Title</b>	<b>Hostname</b>
Field Description	Hostname of the application server
Example	Myhost
<b>Field Title</b>	<b>OPMN request port</b>
Field Description	Port on which OPMN listens for requests to forward on to OC4J instances. This port can be found in the ORACLE_HOME/opmn/conf/opmn.xml file: <port local="6100" remote="6200" request="6003"/>
Example	6003

## Screen: Manual Deployment Option



### Fields on this screen:

Field Title	Install files to app server?
Field Description	By default, the installer will deploy the ear file and copy files under the application server ORACLE_HOME. This screen gives you the option to leave ORACLE_HOME unmodified and configure the application in the staging area for use in a manual installation at a later time. This option can be used in situations where modifications to files under ORACLE_HOME must be reviewed by another party before being applied.
	If you choose No, see the Manual Deployment Option section of the application installation instructions in this document for the manual steps you need to perform after the installer completes.

## Screen: Application Deployment Details

## Fields on this screen:

**Field Title**                      **App Deployment Name**

Field Description              Name by which this VCC application will be identified in the application server

Example                              vcc-app

**Field Title**                      **Context Root**

Field Description              Path under the HTTP URL that will be used to access the VCC application. For example, a context root of 'vcc' will result in the application being accessed at http://host:port/vcc/index.jsp.

Example                              vcc

**Field Title**                      **OC4J Instance**

Field Description              Name of the OC4J instance that was created for this VCC application.

Example                              vcc-oc4j-instance

## Screen: OC4J Administrative User

**Value Chain Collaboration Installer - Oracle Retail**

**ORACLE**

**OC4J Administrative User**

Enter the administrative user and password for the OC4J instance to which the application will be deployed.

OC4J admin user

OC4J admin password

Cancel Back Next Install

## Fields on this screen:

**Field Title**      **OC4J admin user**

Field Description      Username of the admin user for OC4J instance to which the VCC application is being deployed.

Example      oc4jadmin

**Field Title**      **OC4J admin password**

Field Description      Password for the OC4J admin user. You chose this password when you created the OC4J instance (managed OC4J) or when you started the instance for the first time (standalone OC4J).



---

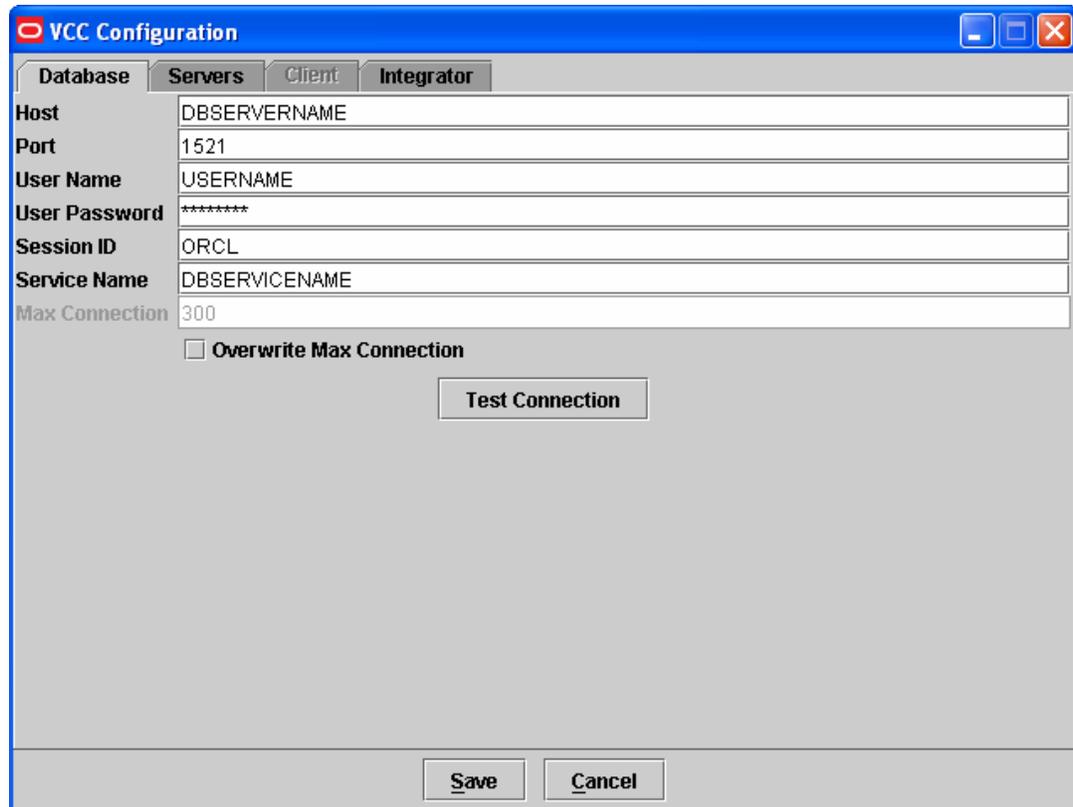
---

# Appendix: VCC Configuration Program

## Configuring the VCC Database

The database configuration screen allows you to set all components that must connect to the database, and updates the appropriate property files.

1. From the VCC Configurations screen, click the **Database** tab



The screenshot shows the 'VCC Configuration' dialog box with the 'Database' tab selected. The dialog has four tabs: 'Database', 'Servers', 'Client', and 'Integrator'. The 'Database' tab contains the following fields and controls:

Host	DBSERVERNAME
Port	1521
User Name	USERNAME
User Password	*****
Session ID	ORCL
Service Name	DBSERVICENAME
Max Connection	300

Below the fields is a checkbox labeled 'Overwrite Max Connection' which is currently unchecked. A 'Test Connection' button is located below the checkbox. At the bottom of the dialog are 'Save' and 'Cancel' buttons.

2. Enter the following:
  - **Host:** Enter the host name. (e.g.): mspdev33.us.oracle.com
  - **Port:** Enter the port name. (e.g.): 1525
  - **User Name:** Enter the User Name
  - **User Password:** Enter the password
  - **Session ID:** Enter the Session Id. (e.g.): dev0210g
  - **Service Name:** Enter the Service Name. (e.g.): dev0210g
3. To ensure that the database connection is working properly, click the Test Connection button. In order access the Test Connection utility in VCC Configuration under the Database tab, the Oracle10g Client has to be installed on the machine.

## For UNIX Machines:

In order to access the Test Connection utility in VCC Configuration under the Database tab, set the environment variable of the OS with:

- LD\_LIBRARY\_PATH=<ORACLE\_HOME>/lib

## Configuring the VCC Servers

Configure the VCC Server by entering the appropriate information in the VCC Server configuration screen.

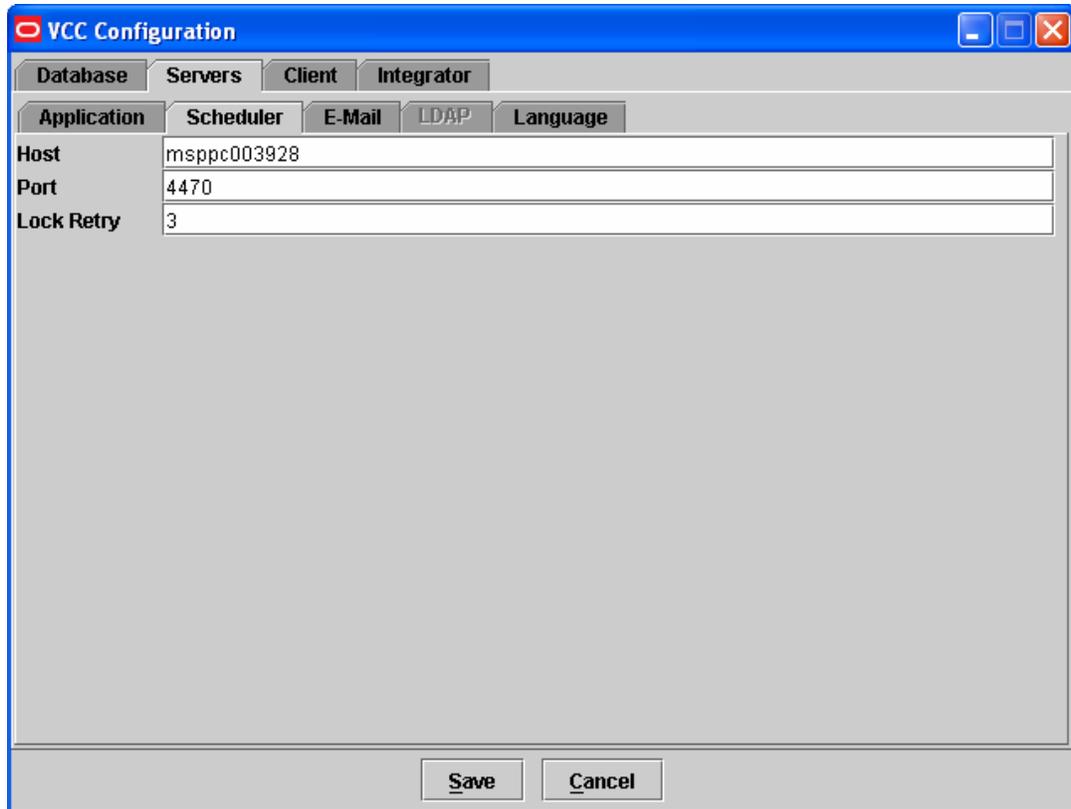
1. To configure VCC servers click the **Servers** tab. The Servers pane appears.
2. Click the **Application** tab.

The screenshot shows the 'VCC Configuration' dialog box with the 'Servers' tab selected. Within the 'Servers' tab, the 'Application' sub-tab is active. The configuration fields are as follows:

Field	Value
Host	localhost
Port	8888
Debug Message to Console	false
Debug Message to Log File	false
Use LDAP	<input type="checkbox"/>
Trusted User	<input checked="" type="checkbox"/>
Trusted User Header Parameter	PLANNER

At the bottom of the dialog, there are 'Save' and 'Cancel' buttons.

3. Enter the following:
  - **Host:** This option is not supported in this version.
  - **Port:** This option is not supported in this version.
  - **Debug Message to Console:** This option is not supported in this version. Hence it is set to False
  - **Debug Message to Log File:** This option is not supported in this version. Hence it is set to False
4. Click the **Scheduler** tab. The Scheduler pane appears.



The screenshot shows the VCC Configuration dialog box with the following configuration:

Field	Value
Host	msppc003928
Port	4470
Lock Retry	3

Buttons: Save, Cancel

5. Enter the following:
  - **Host:** Enter the host name.
  - **Port:** Enter the port number
  - **Lock Retry:** 3
6. Click the **E-Mail** tab. The E-Mail tab allows you to configure the language in which email messages are sent for Exception Reports and Usage Reports.

The screenshot shows the 'Syncra Configuration' dialog box with the 'E-Mail' tab selected. The dialog has a title bar with 'X Syncra Configuration' and standard window controls. Below the title bar are tabs for 'Database', 'Servers', 'Client', and 'Integrator'. Under the 'Client' tab, there are sub-tabs for 'Application', 'Scheduler', 'E-Mail', 'LDAP', and 'Language'. The 'E-Mail' sub-tab is active, showing four configuration fields: 'SMTP Host' (value: SMTPHOST), 'SMTP Port' (value: 25), 'Sender E-Mail Address' (value: SENDER\_ADDRESS), and 'Number of Exception Alerts Per Email' (value: 5000). At the bottom of the dialog are three buttons: 'Help', 'Save', and 'Cancel'.

SMTP Host	SMTPHOST
SMTP Port	25
Sender E-Mail Address	SENDER_ADDRESS
Number of Exception Alerts Per Email	5000

7. Enter the following:
  - **SMTP Host** : Enter the e-mail host.
  - **SMTP Port** : Enter the e-mail port.
  - **Sender E-mail Address** : Enter the sender's e-mail address.
  - **Number of Exception Alerts Per Email** : Enter the Number of Exception Alerts Per Email that you wish to include.
8. Click Save.

## Configuring the VCC Language Tab

Language option is not supported in this version. Therefore, this portion can be ignored.

## Configuring VCC Client

1. From the VCC Configurations screen, click the **Client** tab.

Field	Value	Action
Context Path		
Support URL	http://www.oracle.com/retek/support.html	
Concurrent User Connections	100	
Extract Directory Path Windows	C:\OracleAS\j2ee\home\wcc-bin\integrator\exports\retrieval	Browse
Extract Directory Path Unix	/u00/vccbat/vccoasqa1/vcc-export	Browse
Log Directory		Browse
Event Documents Directory	/u00/vccbat/vccoasqa1/vcc-doc	Browse
Report Directory Path Windows	C:\OracleAS\j2ee\home\wcc-bin\integrator\exports	Browse
Report Directory Path Unix	/u00/vccbat/vccoasqa1/vcc-export	Browse
Theme	Evening Sky	
Debug Level	default	
Output to Console	true	

2. Enter the following:
  - **Context Path:** This option is not supported in this version. Hence, this field should be left blank.
  - **Support URL:** http://www.oracle.com/retek/support.html
  - **Concurrent User Connections:** Enter number of concurrent sessions allowed per user ID. This field requires a whole number greater than or equal to 1.
  - **Extract Directory Path Windows:** Enter the path of the directory in which you intend to extract files from VCC for data extraction.
  - **Extract Directory Path Unix:** Enter the path of the directory in which you intend to extract files from VCC for data extraction.
  - **Log Directory:** Enter the directory where logs will be saved
  - **Event Documents Directory:** Enter the directory path where Events-documents will be stored in.
  - **Report Directory Path Windows:** Enter the directory path where Reports documents will be stored in.
  - **Report Directory Path Unix:** Enter the directory path where Reports documents will be stored in.
  - **Theme:** Select a theme
  - **Debug Level:** default
  - **Output to Console:** true

## Configuring the Syncra Xt Integrator

1. From the VCC program group click the **Integrator** tab:

The screenshot shows the 'VCC Configuration' dialog box with the 'Integrator' tab selected. The dialog is divided into two main sections: 'Integrator Settings' and 'General Settings'.

**Integrator Settings:**

- Integrator User Password:** A text field containing '\*\*\*\*\*'.
- Lock Retry:** A text field containing '3'.
- Log Directory:** A text field containing '..\integrator/logs' with a 'Browse' button to its right.
- Archive Directory:** A text field containing '..\integrator/done' with a 'Browse' button to its right.
- Disallow Future Creation Dates**
- Create Non-Existing User**

**General Settings:**

**Verbose On/Off:**

- Validator**
- Parser**
- Loader**

At the bottom of the dialog are 'Save' and 'Cancel' buttons.

2. Enter the following:
  - **Integrator Password:** The default password is "pinkrhino." The only valid Integrator user name is "integratoruser."
  - **Log Directory:** Enter the pathname for the log file.
  - **Archive Directory:** Enter the path of the directory where archived forecasts are stored.
  - Check the **Disallow Future Creation Dates** checkbox if you do not want to load forecasts with creation dates in the future.
  - Check the **Create Non-Existing User** checkbox if you want non-existing users to be loaded through integrator loaders other than Master Data and User loaders.
  - In the **General Settings** portion of the Integrator pane, check **Verbose On/Off** for the Validator, Parser and Loader depending on your requirements. Checking the checkbox turns verbose mode on.
3. Click **Save**.

---

---

## Appendix: Installer Silent Mode

### Repeating an Installation Attempt

In addition to the GUI and text interfaces of the VCC 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:

Edit the `ant.install.properties` file and correct any invalid settings that may have caused the installer to fail in the previous run.

Run the installer again with the **silent** argument.

---

---

**Example:** `install.sh silent`

---

---



---



---

## Appendix: URL Reference

Both the database schema and application installers for the VCC product will ask for certain 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

### Deployer URI

The Deployer URI is used by the Oracle ANT tasks to deploy an application to an OC4J instance. 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>/<instance>
<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 where the application will be
deployed.
```

---



---

**Example:** deployer:cluster:opmn://myhost:6003/vcc-oc4j-instance

---



---

#### 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 of VCC.

### 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-1.5.10 JDK. Set JAVA\_HOME to a Java development kit of version 1.5.10 or later and run the installer again.

### “Unable to get a deployment manager” Message

**Symptom:**

The application installer quits with the following error message:

```
[oracle:deploy] Unable to get a deployment manager
[oracle:deploy]
[oracle:deploy] This is typically the result of an invalid deployer URI format
being supplied, the target server not being in a started state or incorrect
authentication details being supplied.
[oracle:deploy]
[oracle:deploy] More information is available by enabling logging -- please see
the Oracle Containers for J2EE Configuration and Administration Guide for details.
```

**Solution:**

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

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

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

## “Could not create system preferences directory” Warning

### Symptom:

The following text appears in the installer Errors tab:

```
May 22, 2006 11:16:39 AM java.util.prefs.FileSystemPreferences$3 run  
WARNING: Could not create system preferences directory. System preferences are  
unusable.
```

```
May 22, 2006 11:17:09 AM java.util.prefs.FileSystemPreferences  
checkLockFile0ErrorCode  
WARNING: Could not lock System prefs. Unix error code -264946424.
```

### Solution:

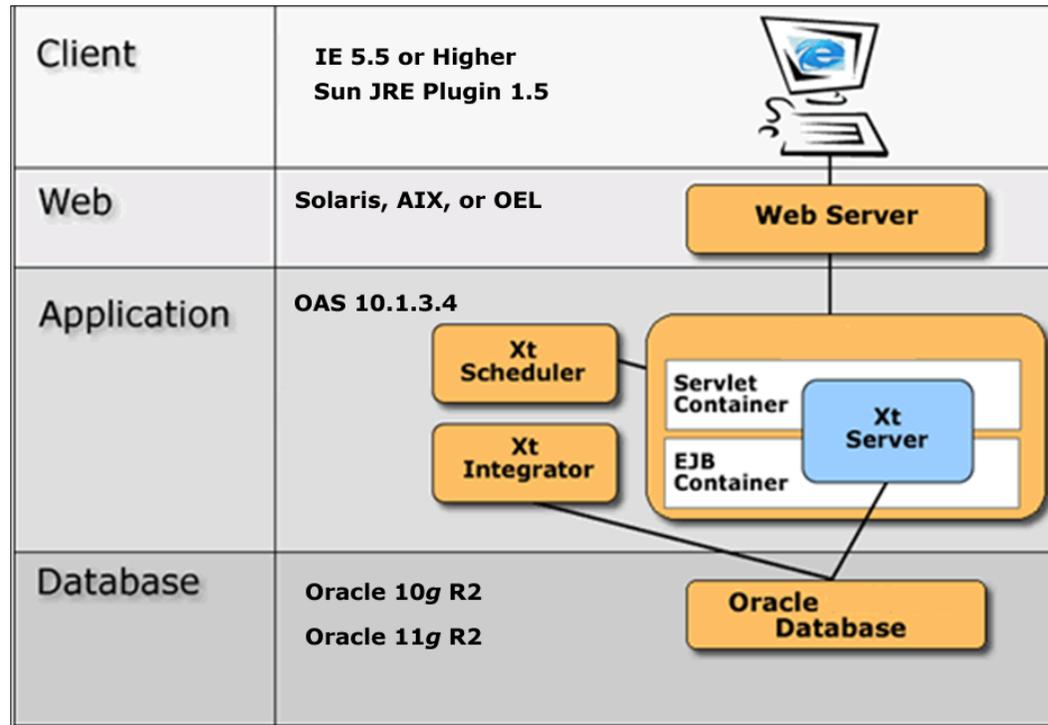
This is related to Java bug 4838770. The `/etc/.java/.systemPrefs` directory may not have been created on your system. See <http://bugs.sun.com> for details.

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

## Appendix: VCC Supported Platforms

This appendix contains platform support information for English, French, Spanish, Japanese, and Korean Operating Systems.

The diagram below applies to the English OS only.



VCC-Supported Platforms

	Database Server	Application Server	OS	Client
VCC	Oracle 10g R2 Oracle 11g R2	OAS 10.1.3.4	OEL 5.3 UNIX Solaris 10 AIX 5.2 AIX 5.3	Web Browser Internet Explorer 5.5, 6.0 and higher Sun JRE plugin 1.5
OS Language	English Japanese	English	English	English Japanese Spanish French Korean



---

---

## Appendix: Managing Session Timeouts

**Error! Bookmark not defined.** VCC enforces a *session timeout* on users who are logged in. A session timeout is the time limit a user can remain inactive before being logged out. The session timeout default is 15 minutes. If there has not been any user activity for 15 minutes, the user is logged out of the session.

You can change the session timeout limit by editing the `web.xml` file. The `web.xml` is located in:

```
[OC4J_HOME]\applications\[APP_NAME]\vcc\WEB-INF\web.xml
```

Use your editor and search for the statement:

```
<session-config>
  <session-timeout>15</session-timeout>
</session-config>
```

Change the timeout number to whatever is appropriate for your requirements and save the file. Restart the VCC Server for the changes to take effect.

Recommend that timeout limit be set at a minimum of four minutes. This allows time for warning message two minutes prior to timeout.



# Appendix: Oracle 10g Database Creation Scripts

```
#####
# Oracle 10.2.0.x Parameter file
#
# NOTES: Before using this script:
#       1. Change <datafile_path>, <admin_path>, <utl_file_path>, and <hostname>
#          values as appropriate.
#       2. Replace the word SID with the database name.
#       3. Size parameters as necessary for development, test, and production
#          environments.
# -----
# MAINTENANCE LOG
#
# Date      By          Parameter              Old/New      Notes
# +-----+ +-----+ +-----+ +-----+ +-----+
# 02/20/06 Oracle      NA                    NA           creation
#
#####
# -----
# The following SGA parameters are CRITICAL to the performance of the
# database. The following settings are based on 1GB of allotted memory.
# The SGA is composed of:
#   db_cache_size, log_buffer, java_pool_size, large_pool_size, shared_pool_size
# -----
db_cache_size           = 256M
java_pool_size          = 150M      # 150M for initial db creation
log_buffer              = 10485760
shared_pool_size        = 350M      # 350M for initial db creation
shared_pool_reserved_size = 35M      # 10% of shared_pool_size
# -----
# The following parameters do not affect SGA size;
# -----
audit_file_dest         = <admin_path>/adump
background_dump_dest    = <admin_path>/bdump
compatible              = 10.2.0
control_files           = (<datafile_path>/control01.ctl
                          ,<datafile_path>/control02.ctl)
core_dump_dest          = <admin_path>/cdump
db_block_size           = 8192 # Default is 2k; adjust before db creation,
cannot change after db is created
db_file_multiblock_read_count = 16 # Platform specific (max io size)/(block size)
db_name                 = SID
job_queue_processes     = 5 # Oracle Retail required; number of cpu's + 1
local_listener          = "(ADDRESS=(PROTOCOL=TCP)(HOST=<hostname>)(PORT=1521))"
nls_calendar            = GREGORIAN
nls_date_format         = DD-MON-RR # Oracle Retail required; if RDW
database see later entry for proper format
nls_language            = AMERICAN # Default
nls_numeric_characters  = "., "    # Should be explicitly set to ensure all
users/batch get the same results
nls_sort                = BINARY   # Should be explicitly set to ensure all
sessions get the same order
nls_territory           = AMERICA  # Default
```

```

open_cursors                = 900          # Oracle Retail required (minimum=900);
default is 50
optimizer_features_enable   = 10.2.0.1
optimizer_mode               = CHOOSE     # Oracle Retail required
pga_aggregate_target        = 100M
plsql_optimize_level         = 2          # 10g change; use this setting to
optimize plsql performance
plsql_debug                  = false      # 10g change; use this setting to
optimize plsql performance
processes                    = 500        # Max number of OS processes that can
connect to the db
query_rewrite_enabled        = TRUE       # Oracle Retail required for function-
based indexes
session_cached_cursors      = 900        # Oracle Retail required; 10g uses to
cache sql cursors in pl/sql
undo_management              = AUTO
undo_retention                = 1800      # Currently set for 30 minutes; set to
avg length of transactions in sec
undo_tablespace              = undo_ts
user_dump_dest               = <admin_path>/udump
utl_file_dir                 = <utl_file_path>
workarea_size_policy         = auto       # Should be set to auto when
pga_aggregate_target is set

# *** Set these parameters for Oracle Retail Data Warehouse (RDW) database ***
#nls_date_format              = DD-MON-RRRR # Required by MicroStrategy
#query_rewrite_integrity     = TRUSTED
#star_transformation_enabled = TRUE
#utl_file_dir                 = <Windows_utl_file_path>, <UNIX_util_file_path>

# *** Archive Logging, set if needed ***
#log_archive_dest_1           = 'location=<admin_path>/arch/'
#log_archive_format           = SIDarch_%r_%s_%t.log
#log_archive_max_processes    = 1          # Default:1
#log_archive_min_succeed_dest = 1          # Default:1
#log_buffer                   = 262144    # Set to (512K or 128K)*CPUs
#log_checkpoint_interval      = 51200     # Default:0 - unlimited
#log_checkpoint_timeout       = 7200      # Default:1800 seconds

-----
--- Script:      crdbl.sql
--- Execute as: sysdba
--- Note:        Before running this script:
---              Modify <datafile_path> values.
---              Modify SID values.
---              Adjust sizes for redo logs, datafiles and tempfile
-----

spool crdbl.log
STARTUP NOMOUNT pfile=${ORACLE_HOME}/dbs/initSID.ora
CREATE DATABASE "SID"
      MAXDATAFILES 1000
      CHARACTER SET UTF8
      DATAFILE
        '<datafile_path>/system01.dbf' SIZE 500M AUTOEXTEND ON NEXT 100M MAXSIZE
2000M
      LOGFILE
        GROUP 1 ('<datafile_path>/red01a.log') SIZE 1000M,
        GROUP 2 ('<datafile_path>/redo2a.log') SIZE 1000M,
        GROUP 3 ('<datafile_path>/redo3a.log') SIZE 1000M
      DEFAULT TEMPORARY TABLESPACE temp TEMPFILE '<datafile_path>/temp01.dbf' SIZE 5000M
      EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M
      UNDO TABLESPACE undo_ts DATAFILE '<datafile_path>/undo_ts01.dbf' SIZE 5000M

```

```
SYSAUX DATAFILE '<datafile_path>/sysaux01.dbf' SIZE 500M AUTOEXTEND ON NEXT 100M
MAXSIZE 2000M
;
exit
spool off
-----
--- Script:          crdb2.sql
--- Execute as:     sysdba in 10.1.0.2 databases or higher
--- Note:           This script installs the data dictionary views in addition to
---                 granting necessary privileges to public.
-----
spool crdb2.log
REM # install data dictionary views:
PROMPT Running catalog.sql
@$ORACLE_HOME/rdbms/admin/catalog.sql;
PROMPT Running catblock.sql
@$ORACLE_HOME/rdbms/admin/catblock.sql;
PROMPT Running catproc.sql
@$ORACLE_HOME/rdbms/admin/catproc.sql;
PROMPT Running catoctk.sql
@$ORACLE_HOME/rdbms/admin/catoctk.sql;
PROMPT Running catrep.sql
@$ORACLE_HOME/rdbms/admin/catrep.sql;
PROMPT Running owminst.plb
@$ORACLE_HOME/rdbms/admin/owminst.plb;

REM * These privs needed for users to run proper grant code when creating users.
grant select on dba_jobs to public with grant option;
grant select on dba_roles to public with grant option;
grant select on dba_role_privs to public with grant option;
grant execute on dbms_ribs to public with grant option;
grant execute on dbms_alert to public;
grant select_catalog_role to public;
grant execute_catalog_role to public;
grant execute on dbms_lock to public;
grant execute on dbms_ribs to public;
grant select any dictionary to public;

REM * query rewrite privilege needed to create function-based indexes
grant query rewrite to public;

REM * dbms_system is needed for tracing
grant execute on sys.dbms_system to public;

PROMPT Creating PLAN table owned by SYSTEM
@$ORACLE_HOME/rdbms/admin/utlxplan.sql

PROMPT Creating public synonym for the plan table
create public synonym PLAN_TABLE for SYSTEM.PLAN_TABLE;

connect SYSTEM/manager
@$ORACLE_HOME/sqlplus/admin/pupbld.sql;
@$ORACLE_HOME/sqlplus/admin/help/hlpbld.sql helpus.sql;

spool off
exit
```

```
-----  
--- Script:      crdb3.sql  
--- Execute as: sysdba in 10.1.0.2 databases or higher  
--- Note:       This script installs java and xml components;  
---            Do not change the order of the statements below due to --  
dependencies  
-----  
  
spool JServer.log  
@$ORACLE_HOME/javavm/install/initjvm.sql;  
@$ORACLE_HOME/xdk/admin/initxml.sql;  
@$ORACLE_HOME/xdk/admin/xmlja.sql;  
@$ORACLE_HOME/rdbms/admin/catjava.sql;  
@$ORACLE_HOME/rdbms/admin/catexf.sql;  
spool off  
  
spool context.log  
@$ORACLE_HOME/ctx/admin/catctx change_on_install SYSAUX TEMP NOLOCK;  
connect CTXSYS/change_on_install  
@$ORACLE_HOME/ctx/admin/defaults/dr0defin.sql AMERICAN;  
spool off  
  
spool xdb_protocol.log  
connect / as sysdba  
@$ORACLE_HOME/rdbms/admin/catqm.sql change_on_install SYSAUX TEMP;  
spool off  
  
@$ORACLE_HOME/rdbms/admin/utlrbp.sql
```

---

---

# Appendix: Oracle 11g Database Creation Scripts

```
#####
# Oracle 11.2.0.x Parameter file
#
# NOTES: Before using this script:
#       1. Change <datafile_path>, <admin_path>, <utl_file_path>, <diag_path>
#          and <hostname> values as appropriate.
#       2. Replace the word SID with the database name.
#       3. Size parameters as necessary for development, test, and production
environments.
# -----
# MAINTENANCE LOG
#
# Date      By          Parameter              Old/New      Notes
# +-----+ +-----+ +-----+ +-----+ +-----+
#
#
#####
# -----
# The policy is to give 60% for sga and 40% for PGA out of Memory Target at
startup
# -----
memory_target                = 2000M
# -----
audit_file_dest               = <admin_path>/adump
compatible                   = 11.2.0
control_files                 = (<datafile_path>/control01.ctl
                              ,<datafile_path>/control02.ctl)
db_block_size                 = 8192          # Default is 2k; adjust before db creation, cannot
change after db is created
db_file_multiblock_read_count = 16          # Platform specific (max io size)/(block size)
db_name                       = SID
diagnostic_dest               = '<diag_path>'
java_pool_size                = 100M
job_queue_processes           = 5            # Oracle Retail required; number of cpu's + 1
local_listener                = "(ADDRESS=(PROTOCOL=TCP)(HOST=<hostname>)(PORT=1521))"
nls_calendar                  = GREGORIAN
nls_date_format               = DD-MON-RR    # Oracle Retail required; if RDW database see later
entry for proper format
nls_language                  = AMERICAN    # Default
nls_numeric_characters        = ".,#"      # Should be explicitly set to ensure all
users/batch get the same results
nls_sort                      = BINARY     # Should be explicitly set to ensure all sessions get
the same order
nls_territory                 = AMERICA    # Default
open_cursors                  = 900        # Oracle Retail required (minimum=900); default is 50
plsql_optimize_level          = 2          # 10g change; use this setting to optimize
plsql performance
processes                     = 2000      # Max number of OS processes that can connect to
the db
query_rewrite_enabled         = TRUE       # Oracle Retail required for function-based
indexes
session_cached_cursors        = 900       # Oracle Retail required;
undo_management                = AUTO
```

```

undo_retention      = 1800          # Currently set for 30 minutes; set to avg length of
transactions in sec
undo_tablespace     = undo_ts
user_dump_dest      = <admin_path>/udump
utl_file_dir        = <utl_file_path>
workarea_size_policy = auto        # Should be set to auto when
pga_aggregate_target is set
#
# *** Set these parameters for Oracle Retail Data Warehouse (RDW) database ***
#nls_date_format    = DD-MON-RRRR  # Required by MicroStrategy
#query_rewrite_integrity = TRUSTED
#star_transformation_enabled = TRUE
#utl_file_dir       = <Windows_utl_file_path>, <UNIX_util_file_path>
#
# *** Archive Logging, set if needed ***
#log_archive_dest_1 = 'location=<admin_path>/arch/'
#log_archive_format = SIDarch_%r_%s_%t.log
#log_buffer         = 10485760      # Set to (512K or 128K)*CPUs
#log_checkpoint_interval = 51200   # Default:0 - unlimited
#log_checkpoint_timeout = 7200     # Default:1800 seconds

```

```

-----
--- Script:      crdbl.sql
--- Execute as: sysdba
--- Note:        Before running this script:
---              Modify <datafile_path> values.
---              Modify SID values.
---              Adjust sizes for redo logs, datafiles and tempfile
-----

```

```

spool crdbl.log

```

```

STARTUP NOMOUNT pfile=${ORACLE_HOME}/dbs/initSID.ora
CREATE DATABASE "SID"
      MAXDATAFILES 1000
      CHARACTER SET UTF8
      extent management local
      DATAFILE
        '<datafile_path>/system01.dbf' SIZE 500M AUTOEXTEND ON NEXT 100M MAXSIZE
2000M
      LOGFILE
        GROUP 1 ('<datafile_path>/red01a.log',
                '<datafile_path>/red01b.log') SIZE 1000M,
        GROUP 2 ('<datafile_path>/redo2a.log',
                '<datafile_path>/redo2b.log') SIZE 1000M,
        GROUP 3 ('<datafile_path>/redo3a.log',
                '<datafile_path>/redo3b.log') SIZE 1000M
      DEFAULT TEMPORARY TABLESPACE temp TEMPFILE '<datafile_path>/temp01.dbf' SIZE 5000M
      EXTENT MANAGEMENT LOCAL UNIFORM SIZE 1M
      UNDO TABLESPACE undo_ts DATAFILE '<datafile_path>/undo_ts01.dbf' SIZE 5000M
      SYSAUX DATAFILE '<datafile_path>/sysaux01.dbf' SIZE 500M AUTOEXTEND ON NEXT 100M
      MAXSIZE 2000M
;

exit
spool off

```

```
-----  
--- Script:          crdb2.sql  
--- Execute as:     sysdba in 11.2.0.1 databases or higher  
--- Note:           This script installs the data dictionary views in addition to  
---                 granting necessary privileges to public.  
-----
```

```
spool crdb2.log  
REM # install data dictionary views:  
PROMPT Running catalog.sql  
@$ORACLE_HOME/rdbms/admin/catalog.sql;  
PROMPT Running catblock.sql  
@$ORACLE_HOME/rdbms/admin/catblock.sql;  
PROMPT Running catproc.sql  
@$ORACLE_HOME/rdbms/admin/catproc.sql;  
PROMPT Running catoctk.sql  
@$ORACLE_HOME/rdbms/admin/catoctk.sql;  
PROMPT Running catrep.sql  
@$ORACLE_HOME/rdbms/admin/catrep.sql;  
PROMPT Running owminst.plb  
@$ORACLE_HOME/rdbms/admin/owminst.plb;  
  
REM * These privs needed for users to run proper grant code when creating users.  
grant select on dba_jobs to public with grant option;  
grant select on dba_roles to public with grant option;  
grant select on dba_role_privs to public with grant option;  
grant execute on dbms_ols to public with grant option;  
grant execute on dbms_alert to public;  
grant select_catalog_role to public;  
grant execute_catalog_role to public;  
grant execute on dbms_lock to public;  
grant execute on dbms_ols to public;  
grant execute on dbms_crypto to public;  
grant select on dba_sys_privs to public with grant option;  
  
REM * query rewrite privilege needed to create function-based indexes  
grant query rewrite to public;  
  
REM * dbms_system is needed for tracing  
grant execute on sys.dbms_system to public;  
  
PROMPT Creating PLAN table owned by SYSTEM  
@$ORACLE_HOME/rdbms/admin/utlxplan.sql  
  
PROMPT Creating public synonym for the plan table  
create public synonym PLAN_TABLE for SYSTEM.PLAN_TABLE;  
  
connect SYSTEM/manager  
@$ORACLE_HOME/sqlplus/admin/pupbld.sql;  
@$ORACLE_HOME/sqlplus/admin/help/hlpbld.sql helpus.sql;  
  
spool off  
exit
```

```
-----  
--- Script:      crdb3.sql  
--- Execute as:  sysdba in 11.2.0.1 databases or higher  
--- Note:       This script installs java and xml components;  
---            Do not change the order of the statements below due to  
dependencies  
-----
```

```
spool JServer.log  
@$ORACLE_HOME/javavm/install/initjvm.sql;  
@$ORACLE_HOME/xdk/admin/initxml.sql;  
@$ORACLE_HOME/xdk/admin/xmlja.sql;  
@$ORACLE_HOME/rdbms/admin/catjava.sql;  
@$ORACLE_HOME/rdbms/admin/catexf.sql;  
spool off
```

```
spool context.log  
@$ORACLE_HOME/ctx/admin/catctx change_on_install SYSAUX TEMP NOLOCK;  
connect CTXSYS/change_on_install  
@$ORACLE_HOME/ctx/admin/defaults/dr0defin.sql AMERICAN;  
spool off
```

```
spool xdb_protocol.log  
connect / as sysdba  
@$ORACLE_HOME/rdbms/admin/catqm.sql change_on_install SYSAUX TEMP;  
spool off
```

```
@$ORACLE_HOME/rdbms/admin/utlrp.sql
```

---



---

## Appendix: Configure Listener for External Procedures

---



---

**Note:** This example illustrates the listener configuration required for external procedures. It does not include environment specific settings that may be needed. Consult Oracle Net Services guides for additional information.

---



---

```
#####
# File: listener.ora
# Desc: Oracle Net8 listener file.
# Notes: Modify <hostname>
#####

LISTENER =
  (DESCRIPTION_LIST =
    (DESCRIPTION =
      (PROTOCOL_STACK =
        (PRESENTATION = TTC)
        (SESSION = NS))
      (ADDRESS =
        (PROTOCOL = tcp)
        (HOST = <hostname>)
        (PORT = 1521))
      (ADDRESS =
        (PROTOCOL = IPC)
        (KEY = extproc_key))
    )
  )

SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (PROGRAM = extproc)
      (SID_NAME = extproc_agent)
      (ENVS='EXTPROC_DLLS=ANY')
    )
  )
)
```

---

---

**Note:** This example illustrates the configuration of net services names required for external procedures. It does not include environment specific settings that may be needed. Consult Oracle Net Services guides for additional information

---

---

```
#####
# File: tnsnames.ora
# Desc: Net Services configuration file.
# Note: Change these values: <service_name>, <oracle_sid>, <hostname>,
#       <global_name>
#####

EXTPROC_CONNECTION_DATA =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = IPC)(Key = extproc_key)))
    (CONNECT_DATA = (SID = extproc_agent)))

EXTPROC_CONNECTION_DATA.world =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = IPC)(Key = extproc_key)))
    (CONNECT_DATA = (SID = extproc_agent)))

<service_name> =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = tcp)(host = <hostname>)(Port = 1521)))
    (CONNECT_DATA = (SID = <oracle_sid>) (GLOBAL_NAME = <global_name>)))

<service_name>.world =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = tcp)(host = <hostname>)(Port = 1521)))
    (CONNECT_DATA = (SID = <oracle_sid>) (GLOBAL_NAME = <global_name>)))

Example:
EXTPROC_CONNECTION_DATA =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = IPC)(Key = extproc_key)))
    (CONNECT_DATA = (SID = extproc_agent)))

EXTPROC_CONNECTION_DATA.world =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = IPC)(Key = extproc_key)))
    (CONNECT_DATA = (SID = extproc_agent)))

prod_db1 =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = tcp)(host = server_01)(Port = 1521)))
    (CONNECT_DATA = (SID = prod_db1) (GLOBAL_NAME = prod_db1.world)))

prod_db1.world =
  (DESCRIPTION =
    (ADDRESS_LIST = (ADDRESS = (PROTOCOL = tcp)(host = server_01)(Port = 1521)))
    (CONNECT_DATA = (SID = prod_db1) (GLOBAL_NAME = prod_db1.world)))
```