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Preface

This guide provides instructions for installing Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC).

Audience

This guide is intended for system administrators, database administrators, and developers who install and configure PCC.

Before reading this guide, you should be familiar with BRM and Pipeline Manager. For more information, see the BRM documentation. PCC requires Oracle WebLogic Server. For information on installing and configuring WebLogic Server, see the Oracle WebLogic Server documentation on the Oracle Technology Network.

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Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see the following:

- PCC Help for step-by-step instructions for configuring pipelines by using PCC.
- BRM PCC Security Guide for information about deployment configurations that enhance security.
- BRM documentation for information about BRM and Pipeline Manager.
This chapter provides an overview of the installation process of Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC).

**Overview of PCC Installation**

PCC installation should be performed only by experienced system administrators. You must be familiar with the following before you begin the installation:

- UNIX operating system
- Oracle WebLogic Server administration
- Oracle Database 11gR2 administration

Additionally, you should have experience installing Java-related packages.

**About the PCC Architecture**

PCC is a Web-based BRM application that serves as the user interface for Pipeline Manager.

PCC runs on a managed server in an Oracle WebLogic Server domain. To interact with PCC, users enter the PCC login page URL in a browser and then enter their PCC user name and password in the login page. After a user is authenticated, the PCC home page appears in the browser.

*Figure 1–1* shows how PCC and Pipeline Manager are integrated.
Overview of the PCC Installation Procedure

The following is an overview of the PCC installation procedure:

1. Plan your installation. Planning an installation involves the following:
   - Determining the scale of your implementation (for example, is it a small test system or a large production system?).
   - Assessing how many physical computers you need and which software components to install on which computers.

2. Review system requirements.

3. Perform the following pre-installation tasks:
   - Install and configure Oracle WebLogic Server.
   - Install and configure BRM.

4. Install PCC.

5. Perform the post-installation configuration tasks.

6. Verify the installation.
Ensuring a Successful PCC Installation

To ensure that the PCC installation is successful, follow these guidelines:

■ As you install each component (for example, the WebLogic Server), verify that the component is installed successfully before continuing the installation process.

■ Pay close attention to the system requirements.
  Before you begin installing the application, ensure that your system has the required software. In addition, ensure that you know all the required configuration values, such as host names and port numbers.

■ Make a note of any new configuration values as you create them.
  You will be required to enter configuration values later.
Pipeline Configuration Center System Requirements

This chapter describes the software, hardware, server, and database requirements for installing Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC).

Software Requirements

PCC is deployed on an Oracle WebLogic Server domain. You must install and connect all required software for optimal performance. PCC is supported only on software and hardware listed in the following sections.

Supported Operating Systems

Table 2–1 lists the operating systems that PCC supports.

<table>
<thead>
<tr>
<th>Product</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Linux, x86-64 (64bit)</td>
<td>5 UL3+</td>
</tr>
<tr>
<td>Red Hat Enterprise Linux, x86-64 (64bit)</td>
<td>5 UL3+</td>
</tr>
<tr>
<td>Oracle Solaris for SPARC (64bit)</td>
<td>10 Update 4+</td>
</tr>
<tr>
<td>Windows XP, x86 (32 bit) (browser only)</td>
<td>Professional with Service Pack 3</td>
</tr>
<tr>
<td>Windows 7, x86 (64 bit) (browser only)</td>
<td>Professional with Service Pack 1</td>
</tr>
</tbody>
</table>

Additional Software Requirements

Table 2–2 lists software required for running PCC.

<table>
<thead>
<tr>
<th>Product</th>
<th>Version</th>
<th>Disk Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle WebLogic Server 11g Enterprise Edition</td>
<td>10.3.4</td>
<td>1 GB.</td>
</tr>
<tr>
<td>Oracle Fusion Middleware 11g Application Development Framework</td>
<td>11.1.1.4 with patch 9941133</td>
<td>1 GB.</td>
</tr>
<tr>
<td>Oracle Database Server</td>
<td>The same version used by the BRM 7.4 installation to which PCC connects</td>
<td>1.2 GB.</td>
</tr>
</tbody>
</table>
The PCC installer checks for all required software and displays errors if it detects any missing or unavailable components or if there are any connectivity-related issues.

Note: For information on how to download a required software component, see the relevant sections in the installation guide for that component.

### Hardware Requirements

The number and configuration of the computers that you employ for your PCC installation depend on the scale and the kind of deployment you have planned.

Table 2–3 provides the minimum hardware requirements for PCC installed on a single managed server in a domain.

**Table 2–3  PCC Minimum Hardware Requirements**

<table>
<thead>
<tr>
<th>Component</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard disk</td>
<td>1.5 GB of free disk space. A minimum of 1.5 GB should be free in the domain home.</td>
</tr>
<tr>
<td>Processor</td>
<td>Oracle recommends using twin cores, each running at 1.5 GHz CPU.</td>
</tr>
<tr>
<td>Memory</td>
<td>A minimum of 4 GB physical memory and 4 GB swap. If you plan to install the database on the same server as PCC, the minimum memory requirements increase to 6 GB physical memory and 6 GB swap.</td>
</tr>
</tbody>
</table>

### Information Requirements

This section describes the information that you must provide during the PCC installation process. You define some of these configuration values when you install and configure Oracle WebLogic Server for PCC during the pre-installation tasks.

Note: Oracle recommends that you print the tables and record the values for future reference.
Oracle WebLogic Server Domain Information

Table 2–4 lists the domain information required during PCC installation. This information pertains to the domain on which you want to deploy PCC.

Table 2–4  Oracle WebLogic Server Domain Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Name</td>
<td>The IP address or the host name of the computer on which the PCC domain is configured.</td>
<td>-</td>
</tr>
<tr>
<td>Port Number</td>
<td>The port number assigned to the PCC domain administration server.</td>
<td>-</td>
</tr>
<tr>
<td>User Name</td>
<td>The PCC domain administrator user name.</td>
<td>-</td>
</tr>
<tr>
<td>Password</td>
<td>The password for the PCC domain administrator user.</td>
<td>-</td>
</tr>
<tr>
<td>WebLogic Home</td>
<td>The path of the directory where the Oracle WebLogic Server software is installed.</td>
<td>-</td>
</tr>
<tr>
<td>Use SSL?</td>
<td>(Optional) A check box to indicate whether the server on which you want to deploy PCC supports secure socket layer (SSL). Note: You must configure SSL when creating the domain on which you want to deploy PCC. See &quot;Configuring SSL for the Oracle WebLogic Server Domain&quot; for more information.</td>
<td>-</td>
</tr>
<tr>
<td>Keystore Location</td>
<td>(Optional) The path of the client-side keystore file generated from the exported public certificate using the keytool utility. Note: If you select the Use SSL? check box, you must select or enter the path of the keystore file.</td>
<td>-</td>
</tr>
</tbody>
</table>

BRM Pipeline Manager Database Connection Information

Table 2–5 lists the Pipeline Manager database connection information required during PCC installation.

Table 2–5  Pipeline Manager Database Connection Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Name</td>
<td>The IP address or the host name of the computer on which the Pipeline Manager database is configured.</td>
<td>-</td>
</tr>
<tr>
<td>Port Number</td>
<td>The port number assigned to the Pipeline Manager database service.</td>
<td>-</td>
</tr>
<tr>
<td>User Name</td>
<td>The user name of the Pipeline Manager database user.</td>
<td>-</td>
</tr>
<tr>
<td>Password</td>
<td>The password of the Pipeline Manager database user.</td>
<td>-</td>
</tr>
<tr>
<td>Service Name</td>
<td>The name of the Pipeline Manager database service.</td>
<td>-</td>
</tr>
</tbody>
</table>
This chapter describes the tasks that you perform before installing Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC).

Overview of Pre-Installation Tasks

Pre-installation tasks for PCC are divided into the following groups:

- Installing and Configuring Oracle WebLogic Server
- Installing and Configuring BRM

Installing and Configuring Oracle WebLogic Server

This section describes procedures related to installing Oracle WebLogic Server and configuring the Oracle WebLogic Server domain on which you will deploy PCC.

Downloading and Installing WebLogic Server

Oracle WebLogic Server is available as a component of the Oracle Fusion Middleware 11g media pack. Fusion Middleware 11g PS3 includes WebLogic Server 10.3.4.

Download Oracle WebLogic Server 10.3.4 from the Oracle software delivery Web site: http://edelivery.oracle.com

For information on installing Oracle WebLogic Server 10.3.4, see the Oracle WebLogic Server documentation on the Oracle Technology Network.

Installing and Configuring Oracle Application Development Runtime

Oracle Application Development Runtime 11g must be installed on the computer on which you install PCC. You can download Oracle Application Development Runtime 11g from the Oracle software delivery Web site: http://edelivery.oracle.com

See Oracle Fusion Middleware Installation Guide for Application Developer 11g Release for information on installing Oracle Application Development Runtime 11g.
Note: The Oracle Fusion Middleware 11g Application Developer installer installs both Oracle Application Development Runtime and Oracle Enterprise Manager.


Creating an Oracle WebLogic Server Domain

To create a domain on which to deploy PCC, see the Oracle WebLogic Server documentation.

You must create the domain with at least one managed server and one administration server. Oracle recommends that you deploy PCC on a managed server in a production environment.

Table 3–1 shows the values to choose when creating the domain for PCC.

<table>
<thead>
<tr>
<th>Configuration Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain Source</td>
<td>Select Generate a domain configured automatically to support the following BEA products. From the list, select Oracle JRF - 11.1.1.0 [oracle_common].</td>
</tr>
<tr>
<td>Domain Mode Configuration</td>
<td>Select Production Mode.</td>
</tr>
<tr>
<td>Optional Configuration</td>
<td>Select Administration Server, Managed Servers, Clusters and Machines and Deployments and Services.</td>
</tr>
<tr>
<td>Administration Server Listen Address</td>
<td>Use a listen address that is equal to a resolvable DNS host or IP address. Do not use localhost or 127.0.0.1. Those addresses interfere with clustered servers.</td>
</tr>
<tr>
<td>Managed Server Listen Address</td>
<td>Enter a listen address that is equal to a resolvable DNS host or IP address.</td>
</tr>
<tr>
<td>Target Deployments to Clusters or Servers</td>
<td>Add all libraries to both the managed server target and the Administration Server.</td>
</tr>
<tr>
<td>Target Services to Clusters or Servers</td>
<td>Add all services to the managed server target.</td>
</tr>
</tbody>
</table>

See Oracle Fusion Middleware Installation Guide for Oracle Enterprise Content Management Suite 11g Release 1 for more information on Oracle WebLogic Server domains.

You can now start the domain administration server manually and log in to the WebLogic Administration Console.

Configuring SSL for the Oracle WebLogic Server Domain

If you want to enable secure communication for PCC, you must configure secure socket layer (SSL) for the domain on which you want to deploy PCC.

To configure SSL for the domain:

1. Generate the server-side keystore file using the keytool utility.
See the *Key and Certificate Management Tool* online documentation for more information.

2. Export the public certificate from the server-side keystore file using the **keytool** utility.
   See the *Key and Certificate Management Tool* online documentation for more information.

3. Generate the client-side keystore file from the exported public certificate using the **keytool** utility.
   See the *Key and Certificate Management Tool* online documentation for more information.

   **Note:** Note the path of the client-side keystore file. You need to provide this path during the PCC installation if you choose to use SSL.

4. In the WebLogic Administration Console, configure SSL for the domain managed server on which you want to deploy PCC.
   See the Oracle WebLogic Server Administration Console Help for more information.

---

**Installing and Configuring BRM**

You must install BRM 7.4 with Maintenance Patch Set 1 and Patch Set 15 (14276344).

Maintenance Patch Set 1 is a prerequisite for installing Patch Set 15.

To install BRM with Maintenance Patch Set 1 and Patch Set 15:

1. Download BRM 7.4 from the Oracle software delivery Web site:
   
   http://edelivery.oracle.com

2. Install BRM and Pipeline Manager.
   For more information, see *BRM Installation Guide*.

3. Download BRM 7.4 Maintenance Patch Set 1 from the My Oracle Support Web site:
   
   http://support.oracle.com

   For more information, see *BRM 7.4 Maintenance Patch Set 1 Installation*.

   BRM 7.4 Maintenance Patch Set 1 includes special database upgrade options that are required for Oracle Communications Pricing Design Center (PDC). Because PCC has a dependency on these upgrades, use the following options when upgrading the BRM database schema and the Pipeline Manager database schema:
   
   - When upgrading the BRM database schema, run the following command:
     
     `pin_upgrade_74mps1.pl -pdc_upgrade`
   
   - When upgrading the Pipeline Manager database schema, run the following command:
     
     `pin_74_74mps1_pipeline_upgrade.pl -pdc_upgrade`

5. Download BRM 7.4 Patch Set 15 (14276344) from the My Oracle Support Web site:
   For more information, see BRM 7.4 Patch Set 15 Installation Guide.

Setting Up the Business Parameter

If you use PCC with PDC, after installing BRM and the required patches, you must set up the PriceDesignCenterInst business parameter.

To set up PriceDesignCenterInst:

1. Go to BRM_Home/sys/data/config and run the following command, which creates an editable XML file from the pricing instance of the /config/business_params object.

   pin_bus_params -r BusParamsPricing bus_params_pricing.xml

   This directory includes the support files used by the pin_bus_params utility. To run it from a different directory, see pin_bus_params in the BRM documentation.

   This command creates the XML file named bus_params_pricing.xml.out in your working directory. If you do not want this file in your working directory, specify the path as part of the file name.

2. Search for the following line in the XML file:

   <PriceDesignCenterInst>disabled</PriceDesignCenterInst>

   By default, PriceDesignCenterInst is set to disabled.

3. Change disabled to enabled.

4. Save the file as bus_params_pricing.xml.

5. Use the following command to load this updated file into the /config/business_params object:

   pin_bus_params bus_params_pricing.xml

6. Read the object with the testnap utility or Object Browser to verify that all fields are correct.
Installing Pipeline Configuration Center

This chapter describes how to install Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC). Before installing PCC, read the following:

- Pipeline Configuration Center Installation Overview
- Pipeline Configuration Center System Requirements
- Pipeline Configuration Center Pre-Installation Tasks

Installing PCC

You can install PCC in the following modes:

- **GUI mode:** Use the GUI mode when you want to interact with the PCC installer GUI during installation. See "Installing PCC in GUI Mode".

- **Silent mode:** Use the silent mode when you install PCC using the same configuration repeatedly. Silent install mode does not use the GUI, and it runs in the background. See "Installing PCC in Silent Mode".

The PCC installer must be launched from the computer hosting the Oracle WebLogic Server domain. PCC installation must be performed by the user who has permissions to write to the Oracle Inventory (oraInventory) directory and the WebLogic_Home/user_projects/domains directory, where WebLogic_Home is the directory in which you installed the WebLogic Server.

For more information about the oraInventory directory, see the Oracle documentation available at the Oracle Technology Network Web site:

http://docs.oracle.com

Installing PCC in GUI Mode

**Note:** To perform a GUI installation, install a GUI application, such as X Windows, and set the DISPLAY environment variable before you install PCC.

To install PCC in GUI mode:

1. Ensure that the Pipeline Manager database server is running.
2. Start the Oracle WebLogic Server domain administration server and managed server on which you want to deploy PCC.
3. Create a temporary directory (temp_dir).

4. Go to the Oracle software delivery Web site:
   http://edelivery.oracle.com

5. Download the appropriate PipelineConfigurationCenter-7.4-platform.zip software pack to temp_dir, where platform is linux, solaris, or win32.

6. Unzip the PipelineConfigurationCenter-7.4-platform.zip file.
The following folder structure is created:
temp_dir/pcc/Disk1/install/ and temp_dir/pcc/Disk1stage/
temp_dir is the directory in which you unzipped the PCC software.

7. Go to the temp_dir/pcc/Disk1/install/ directory, and enter the following UNIX command:
   ./runInstaller

   The Welcome screen appears.

8. Click Next.

   Note: The PCC installer creates the oraInventory directory if it does not detect any installed Oracle products on the system. The oraInventory directory manages all Oracle products installed on your system.

The Specify Home Details screen appears.

9. Enter the following PCC installation details:
   a. In the Name field, enter the PCC installation name.

      Note: You can select the name for the installation from the list of names the installer provides.

   b. In the Path field, enter the path to the directory where you want to install PCC.

      Note: Optionally, click Browse to navigate to the directory.

   c. Click Next.

      The WebLogic Administration Server Connection screen appears.

10. Enter the following details for the domain on which you want to deploy PCC (see Table 2–4 for more information):
   a. In the Host Name field, enter the IP address or the host name of the computer on which the domain is configured.
   b. In the Port Number field, enter the port number assigned to the domain administration server.
   c. In the Username field, enter the domain administrator user name.
   d. In the Password field, enter the password for the domain administrator user.
Installing PCC in GUI Mode

4-3

e. In the **WebLogic Home** field, enter the path of the directory where the Oracle WebLogic Server software is installed.

---

**WARNING:** The PCC installer will not proceed until it verifies with the running instance of Oracle WebLogic Server that the domain administration server information you entered is valid.

---

f. Do one of the following.

If the server does not support secure socket layer (SSL), deselect the **Use SSL?** check box.

If the server supports SSL, leave the **Use SSL?** check box selected, and in the **Keystore Location** field, enter the path of the client side keystore file generated from the exported public certificate using the **keytool** utility. See "Configuring SSL for the Oracle WebLogic Server Domain" for more information.

---

g. Click **Next**.

The WebLogic Server/Cluster Selection screen appears.

11. Select the domain administration server or managed server on which you want to deploy PCC, and click **Next**.

---

**Note:** Oracle recommends deploying PCC on a managed server. If you select a managed server, ensure that the managed server and the node manager are running.

---

The BRM Pipeline Database Connection screen appears.

12. Enter the following information required to connect to the Pipeline Manager database (see Table 2–5 for more information):

   a. In the **Host Name** field, enter the IP address or the host name of the computer on which the Pipeline Manager database is configured.

   b. In the **Port Number** field, enter the port number assigned to the Pipeline Manager database service.

   c. In the **Username** field, enter the user name of the Pipeline Manager database user.

   d. In the **Password** field, enter the password of the Pipeline Manager database user.

   e. In the **Service Name** field, enter the name of the Pipeline Manager database service.

---

**WARNING:** The PCC installer will not proceed until it verifies with the running instance of the Pipeline Manager database server that the database information you entered is valid.

---

f. Click **Next**.

The Pipeline Configuration Center User screen appears.
13. (Optional) Enter the following information required to create a PCC user:
   a. In the Username field, enter the name for the PCC user.
   b. In the Password field, enter a password for the PCC user.

   **Note:** The PCC user password can contain up to 12 characters and should contain at least one nonalphabetic character. For example, Weblogic123.
   The user name must not be a part of the password.
   c. In the Confirm Password field, enter the password again.
   d. Click Next.

   The Summary screen appears.

14. Review the selections you made in the preceding screens, and click Install.

   The Install screen appears.

   **Note:** After the installation begins, if you click Stop installation, the installation process stops, but the files that are already copied are not removed.

15. When the End of Installation screen appears, note the provided URL.

   You use this URL to access PCC.

   **Note:** If the server supports SSL, the secure connection is established for PCC even if you deselect the Use SSL? check box in the WebLogic Administration Server Connection screen. In this case, two connection URLs are displayed:
   - A secured connection URL with SSL listen port and the HTTPS schema
   - An unsecured connection URL with the HTTP schema

16. Click Exit.

   The Exit confirmation message appears.

17. Click Yes.

   If you did not create a PCC user during installation, you must create one after the installation is complete. See "Pipeline Configuration Center Post-Installation Tasks".

   See "Verifying the Pipeline Configuration Center Installation" for information on verifying the successful installation of PCC.

   See "About Installation Logs" for information on PCC installer logs.
Installing PCC in Silent Mode

Silent-mode installation enables you to set installation configurations only once and then use those configurations to duplicate the installation on many machines. In this mode, you use a response file template that contains a predefined set of values to install PCC.

---

**Note:** The silent installation is not meant for production environments, and it should be used in test environments only for setting up quickly or backing up the properties for later use in another test environment.

---

About the Response File Template

The PCC installer includes a response file template, `temp_dir/pcc/Disk1/stage/Response/oracle.communications.pcc.Complete.rsp`, where `temp_dir` is the directory in which you unzipped the PCC software.

This response file template contains all the parameters that the PCC installer requires during the silent, unattended installation, but it does not contain the parameter values. You must update the response file template per your installation requirements before starting the silent installation.

Installing PCC in Silent Mode

To install PCC in silent mode:

1. Go to the `temp_dir/pcc/Disk1/stage/Response/` directory, where `temp_dir` is the directory in which you unzipped the PCC software.
2. Make a copy of the `oracle.communications.pcc.Complete.rsp` file, and open it in a text editor.
3. Enter the values in the parameters per your installation requirements.
4. Save and close the file.
5. Go to the `temp_dir/pcc/Disk1/install/` directory, where `temp_dir` is the directory in which you unzipped the PCC software, and enter the following UNIX command:

   ```
   ./runInstaller -responseFile path -silent
   ```

   where `path` is the response file name and location.

   For example:

   ```
   ./runInstaller -responseFile /response_files/myresponsefile.rsp -silent
   ```

   The installation runs silently in the background.
6. Open the `PCC_Home/install/readme.txt` file, where `PCC_Home` is the directory in which you installed PCC.

7. Copy the URL and paste it in your browser’s address field.

You can now access the PCC application.

See "Verifying the Pipeline Configuration Center Installation" for information on how to verify that the PCC installation was successful.

See "About Installation Logs" for information on the PCC installer logs.

---

**About Installation Logs**

The PCC Installer logs can be found in the `oraInventory/logs` directory.

Use the following log files to monitor installations and post-installations:

- `installActionTimeStamp.log`
- `oraInstallTimeStamp.err`
- `oraInstallTimeStamp.out`
- `silentInstallTimeStamp.log` (for silent mode installation)

where `TimeStamp` is the date and time the log file was created.
This chapter provides instructions for Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC) post-installation tasks.

Creating a PCC User after Installing PCC

During the PCC installation, the installer creates the Config Admin Oracle WebLogic Server group. Users belonging to this group have read and write access to perform all the tasks in PCC.

You can create a PCC user during or after the installation. When you create a user during the installation, the installer automatically adds it to the Config Admin group.

To create a PCC user after installing PCC:

1. Log in to the WebLogic Administration Console.
2. In the Domain Structure panel, click the Security Realms link.
   The Summary of Security Realms page appears.
3. Click the myrealm link.
   The Settings for myrealm page appears.
4. Click the Users and Groups tab.
5. Click the Users subtab.
6. Click New.
   The Create a New User page appears.
7. Do the following:
   a. In the Name field, enter a name for the PCC user.
   b. (Optional) In the Description field, enter a brief description for the PCC user.
   c. In the Password field, enter a password for the PCC user.

   Note: The PCC user password can contain up to 12 characters and should contain at least one nonalphabetic character. For example, Weblogic123.

   The user name must not be a part of the password.
d. In the Confirm Password field, enter the password again to confirm it.

8. Click OK.

The user name appears in the User table.

9. Click the user link, where user is the PCC user that you created.

The Settings for user page appears.

10. Click the Groups tab.

11. In the Parent Groups section’s Available list, select Config Admin.

12. Move Config Admin to the Chosen list.

13. Click Save.

Configuring a Connection from PCC to BRM

After the PCC installation is complete, configure a connection from PCC to BRM.

To configure a connection from PCC to BRM:

1. Open the PCC_Home/plan/AppFileOverrides/PCCView.war/Infranet.properties file, where PCC_Home is the directory in which you installed PCC.

   `infranet.connection=pcp://username:password@hostname:port/service 1`

   where:
   - `username` is the login name to use for connecting to BRM. You can use any valid customer service representative (CSR) login name.
   - `password` is the password for `username`.
   - `hostname` is the name or IP address of the computer running the primary Connection Manager (CM).
   - `port` is the TCP port number of the CM on the host computer. The port number must match the corresponding `cm_ports` entry in the primary CM configuration file.
   - `service` is the service type. The trailing 1 is the POID of the service.

2. Search for the `infranet.connection` entry.

3. Edit the `infranet.connection` entry as follows:

   `infranet.connection=pcp://username:password@hostname:port/service 1`

4. Save your changes, and close the file.

5. Log in to the WebLogic Administration Console for the PCC domain, and do the following:

   a. In the Domain Structure panel, click Deployments.

      The Summary of Deployments page appears.

   b. In the Deployments table, select the PipelineConfigurationCenter check box.
c. Click Update.  
   The Update Application Assistant starts.

d. Make sure the Redeploy this application using the following deployment files option is selected.

e. Set Deployment plan path to the location of the Infranet.properties file. Use the Change Path button to browse to the file.

f. Click Next, and review your choices.

g. Click Finish.

h. Restart WebLogic Server.

   See the Oracle WebLogic Server Administration Console Help for more information about the console.

6. Secure the BRM connection information as follows:
   
   ■ Encrypt the password by using the pin_crypt_app utility. See the BRM documentation for more information about the utility.
   
   ■ Set the Infranet.properties file permissions to permit only specified system administrators to access the file.
Verifying the Pipeline Configuration Center Installation

This chapter describes how to verify that Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC) is correctly installed.

Checking the State of All Installed Components

You can verify that PCC is installed correctly by checking the state of all installed components.

To check the state of all installed components:
1. Log in to the PCC domain WebLogic Administration Console.
2. In the Domain Structure panel, click Deployments.
The Summary of Deployments page appears.
3. In the Control tab, if PCC is installed correctly, the deployed PipelineConfigurationCenter application appears in the Active state.

Logging In to PCC

You can log in to PCC to verify that PCC is installed.

To log in to PCC:
1. Open a browser window.
2. Enter the URL provided by the PCC installer at the end of the installation into the browser’s address field.

   Note: The URL to access PCC is also available in the PCC_Home/install/readme.txt file, where PCC_Home is the directory in which you installed PCC.

3. Press Enter.
The PCC login page appears.
4. Do the following:
   a. In the Username field, enter the user name.
   b. In the Password field, enter the password.
5. **Click Login.**

The PCC home page appears, verifying that PCC is successfully installed.
Uninstalling Pipeline Configuration Center

This chapter describes how to uninstall Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC).

Uninstalling PCC

You use the PCC installer to uninstall PCC.

To uninstall PCC:

1. Go to the temp_dir/pcc/Disk1/install directory, where temp_dir is the directory in which you unzipped the PCC software.

2. Enter the following UNIX command:
   ```bash
   ./runInstaller
   ```
   The Welcome screen appears.

3. Click **Deinstall Products**.
   The Inventory screen appears.

4. Select the PCC installation name that you entered during PCC installation.

5. Click **Remove**.
   The Confirmation screen appears.

6. Click **Yes**.
   The User Input screen appears.

7. In the **WebLogic Administrator password** field, enter the PCC domain administrator password.
   See Table 2–4 for more information.
Uninstalling PCC in Silent Mode

To uninstall PCC in silent mode:

1. Go to the `temp_dir/pcc/Disk1/install` directory, where `temp_dir` is the directory in which you unzipped the PCC software.

2. Run the following command:
   
   ```
   ./runInstaller -responseFile path -silent -deinstall
   ```

   where `path` is the response file name and location.

   A message indicating that PCC has been uninstalled successfully appears.

---

**Important:** Even if you enter an incorrect WebLogic Administrator password, the uninstallation is completed; however, it is not a clean uninstallation. In this case, you must perform manual cleanup tasks after uninstalling PCC. See *Pipeline Configuration Center Release Notes*.

---

8. Click **OK**.

---

**Important:** After the uninstallation begins, even if you click **Cancel**, PCC is uninstalled. Oracle recommends not clicking **Cancel** in the middle of the uninstallation to prevent the PCC installer screen from hanging.

---

The PCC components are uninstalled.

The Inventory screen appears.

9. Click **Close**.

The Welcome screen appears.

10. Click **Cancel**.

The Exit dialog box appears.

11. Click **Yes**.

The PCC installer removes all files except log files. You must delete the log files manually. The log files are in the `oraInventory/logs` directory.
This chapter provides an overview of basic administration tasks for Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC).

PCC Administrator Tasks

A PCC administrator is responsible for the day-to-day tasks of maintaining and managing PCC and its users. You perform the following tasks as a PCC administrator:

- Managing PCC Security
- Monitoring PCC
- Managing PCC

Managing PCC Security

Oracle WebLogic Server includes a security architecture that provides a secure foundation for applications. PCC depends on the WebLogic Server security framework to secure its resources and servers. Managing PCC security involves the following:

- Managing security realms: Configuring new security realms, changing the default security realm, and deleting security realms
- Managing users and groups: Defining users and assigning them to a group that can be authenticated in a security realm
- Managing security providers: Managing security providers that provide security services to applications to protect WebLogic Server resources

See the Oracle WebLogic Server Administration Console Help for more information on managing security realms, managing users and groups, and managing security providers.

Monitoring PCC

Regularly monitoring your system ensures fast recognition and resolution of problems or issues. You can use the WebLogic Administration Console to monitor the following:

- PCC domain
- PCC administration server and managed servers
- PCC cluster

See the Oracle WebLogic Server Administration Console Help for more information.
Managing PCC

You manage PCC by managing the WebLogic server on which PCC is installed. This includes starting and stopping the PCC administration server and managed servers.

See the Oracle WebLogic Server Administration Console Help for more information.
Troubleshooting Pipeline Configuration Center

This chapter provides guidelines for troubleshooting problems with Oracle Communications Billing and Revenue Management (BRM) Pipeline Configuration Center (PCC). It includes information about log files, diagnosing common problems, and contacting Oracle Global Support.

Troubleshooting Checklist

When problems occur, it is best to do some troubleshooting before you contact Oracle Global Support:

- You know your installation better than Oracle Global Support does. You know whether anything in the system has been changed, so you are more likely to know where to look first.

- Troubleshooting skills are important. Relying on Oracle Global Support to research and solve all your problems prevents you from being in full control of your system.

If you have a problem with your PCC system, ask yourself the following questions because Oracle Global Support will ask them:

- What exactly is the problem? Can you isolate it?
  Oracle Global Support needs a clear and concise description of the problem, including when it began to occur.

- What do the log files say?
  This is the first thing that Oracle Global Support asks for. Check the error log for the PCC component you are having problems with.

- Has anything changed in the system? Did you install any new hardware or new software? Did the network change in any way? Does the problem resemble another one you had previously? Has your system usage recently jumped significantly?

- Is the system otherwise operating normally? Has response time or the level of system resources changed? Are users complaining about additional or different problems?

Using Error Logs to Troubleshoot PCC

PCC error log files provide detailed information about system problems. If you are having a problem with PCC, look in the log files.
PCC records information about actions performed in the PCC GUI in Oracle WebLogic Server log files. See the Oracle WebLogic Server Administration Console Help for more information.

Diagnosing PCC Problems

PCC problems can be diagnosed using the Oracle WebLogic Server Diagnostic Framework, which enables you to collect, archive, and access diagnostic information about applications hosted on the WebLogic server. See the Oracle WebLogic Server Administration Console Help for more information.

This section lists some common PCC problems and describes how to diagnose the error messages and resolve the problems.

Refreshing the Browser

Do not refresh your browser.

Refreshing the browser causes unpredictable problems in PCC.

Unable to Perform Any Task after Logging In

After you log in to PCC, the links in the navigation pane are not displayed, and you cannot perform any task.

This means that you are not in the Config Admin WebLogic Server group. Contact your system administrator, and request to be added to that group.

Getting Help for PCC Problems

If you cannot resolve a PCC problem, contact Oracle Global Support.

Before you contact Oracle Global Support, try to resolve the problem with the information in the log files. See "Using Error Logs to Troubleshoot PCC" for more information. If this does not help resolve the problem, gather the following information:

- A clear and concise description of the problem, including when it began to occur.
- Relevant portions of the relevant log files.
- Relevant configuration files.
- Recent changes in your system after which the problem occurred, even if you do not think they are relevant.
- A list of all PCC components and patches installed on your system.

When you are ready, report the problem to Oracle Global Support.