

Oracle® Fusion Middleware

Oracle WebCenter Analytics Installation and Upgrade Guide (for
Oracle WebLogic Portal)

10g Release 3 (10.3.0.1)

E14440-02

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Describes how to install or upgrade Oracle WebCenter
Analytics running on Oracle WebLogic Portal.

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Preface

This book describes how to install or upgrade Oracle WebCenter Analytics 10g Release 3 (10.3.0.1).

Audience

This document is intended for the user responsible for installing or upgrading Oracle WebCenter Analytics. This user must have strong knowledge of the platform operating system, database, web and application servers, and any other third-party software required for installation.

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Related Documents

For more information, see the following documents in the Oracle WebCenter Analytics 10g Release 3 (10.3.0.1) documentation set:

- *Oracle WebCenter Analytics Release Notes*
- *Oracle WebCenter Analytics Configuration Worksheets*
- *Oracle Fusion Middleware Administrator's Guide for Oracle WebCenter Analytics (for Oracle WebLogic Portal)*
- *Oracle Fusion Middleware Developer's Guide for Oracle WebCenter Analytics*

Conventions

The following text conventions are used in this document:

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

Installation Prerequisites

Complete the following basic steps to prepare your network and host computers for deployment:

1. Read the product release notes for information on compatibility issues, known problems, and workarounds that might affect how you proceed with your deployment.
2. Print the configuration worksheets provided in the *Oracle WebCenter Analytics Configuration Worksheets* document in the Oracle WebCenter Analytics 10g Release 3 (10.3.0.1) documentation set.
3. Determine the values you have assigned for this deployment, and record these values in the Oracle WebCenter Analytics Configuration Worksheets document.
4. Provision host computers for your deployment and install prerequisite software. For details, see [Section 1.1, "Hardware and Software Requirements."](#)

1.1 Hardware and Software Requirements

The following sections list the hardware and software requirements for Oracle WebCenter Analytics.

- [Section 1.1.1, "Hardware Requirements"](#)
- [Section 1.1.2, "Software Requirements for RedHat Linux Environments"](#)
- [Section 1.1.3, "Software Requirements for Oracle Enterprise Linux Environments"](#)
- [Section 1.1.4, "Software Requirements for Novell SuSE Linux Environments"](#)
- [Section 1.1.5, "Software Requirements for Sun Solaris Environments"](#)
- [Section 1.1.6, "Software Requirements for IBM AIX Environments"](#)
- [Section 1.1.7, "Supported Web Browsers"](#)
- [Section 1.1.8, "Additional Software Requirements"](#)

For the most current platform support information, see the Oracle WebCenter Analytics spreadsheet under System Requirements and Supported Platforms for Oracle WebCenter Interaction & Ensemble 10gR3 on the Oracle Fusion Middleware Certification page at

http://www.oracle.com/technology/software/products/ias/files/fusion_certification.html.

For more information on recommended configurations based on the size of your implementation, see the section about provisioning computers in the *Oracle Fusion Middleware Deployment Planning Guide for Oracle WebCenter Interaction*.

Caution: IPv6 is not supported. You should verify that IPv6 is not enabled prior to upgrading this product.

1.1.1 Hardware Requirements

This section lists the hardware requirements for an Oracle WebCenter Analytics deployment.

- Oracle WebCenter Analytics Host Computer
 - 1.6 GHz[^], with 2MB L2 cache
 - 1 GB memory
 - 2 GB disk space
- Database Server Host Computer
 - Dual 2.0 GHz[^], with 2 MB L2 cache
 - 2 GB memory[^]
 - Mirrored SCSI drives (either 15K or 10K RPM)
 - Disk space to accommodate growth of the Oracle WebCenter Analytics database. Growth is directly correlated to the number of events occurring. Events include such things as page views, portlet views, user logins, and discussion posts. Estimate 100 MB of growth per 1 million events. For example, if your portal receives roughly 1 million events per day, you should anticipate growth of 36.5 GB per year.

1.1.2 Software Requirements for RedHat Linux Environments

This section lists the software requirements for RedHat Linux environments.

- Operating System:
 - RedHat Enterprise Linux ES 4.0 update 3 on all processors except Itanium
 - RedHat Enterprise Linux ES 5.x on all processors except Itanium
- Databases:
 - Oracle Database 10g (10.1.0.5 and above) or Oracle Database 10gR2 (10.2.0.2 and above) in default or Oracle Real Application Clusters (RAC) configuration
 - Oracle 11g (11.1.0.6 and above) in default or Oracle Real Application Clusters (RAC) configuration

When running Oracle 11g versions prior to 11.1.0.7.0 the Oracle system parameter `_optimizer_group_by_placement` must be set to `false`. This can either be set in the `init.ora` file of the respective database instances or by issuing an `ALTER SYSTEM` command as follows:

```
SQLPLUS /nolog
CONNECT / AS SYSDBA
ALTER SYSTEM SET "_optimizer_group_by_placement"=false
```

Note: If you are upgrading Oracle Database from 10.1.x to 10.2.x, you should perform this upgrade before upgrading Oracle WebCenter Interaction.

1.1.3 Software Requirements for Oracle Enterprise Linux Environments

This section lists the software requirements for Oracle Enterprise Linux environments.

- Operating System:
 - Oracle Enterprise Linux 4.x on all processors except Itanium
 - Oracle Enterprise Linux 5.x on all processors except Itanium
- Databases:
 - Oracle Database 10g (10.1.0.5 and above) or Oracle Database 10gR2 (10.2.0.2 and above) in default or Oracle Real Application Clusters (RAC) configuration
 - Oracle 11g (11.1.0.6 and above) in default or Oracle Real Application Clusters (RAC) configuration

When running Oracle 11g versions prior to 11.1.0.7.0 the Oracle system parameter `_optimizer_group_by_placement` must be set to `false`. This can either be set in the `init.ora` file of the respective database instances or by issuing an `ALTER SYSTEM` command as follows:

```
SQLPLUS /nolog
CONNECT / AS SYSDBA
ALTER SYSTEM SET "_optimizer_group_by_placement"=false
```

Note: If you are upgrading Oracle Database from 10.1.x to 10.2.x, you should perform this upgrade before upgrading Oracle WebCenter Interaction.

1.1.4 Software Requirements for Novell SuSE Linux Environments

This section lists the software requirements for Novell SuSE Linux environments.

- Operating System:
 - SuSE Enterprise Linux SLES 9 on all processors except Itanium
 - SuSE Enterprise Linux SLES 10 on all processors except Itanium
- Databases:
 - Oracle Database 10g (10.1.0.5 and above) or Oracle Database 10gR2 (10.2.0.2 and above) in default or Oracle Real Application Clusters (RAC) configuration
 - Oracle 11g (11.1.0.6 and above) in default or Oracle Real Application Clusters (RAC) configuration

When running Oracle 11g versions prior to 11.1.0.7.0 the Oracle system parameter `_optimizer_group_by_placement` must be set to `false`. This can either be set in the `init.ora` file of the respective database instances or by issuing an `ALTER SYSTEM` command as follows:

```
SQLPLUS /nolog
CONNECT / AS SYSDBA
ALTER SYSTEM SET "_optimizer_group_by_placement"=false
```

Note: If you are upgrading Oracle Database from 10.1.x to 10.2.x, you should perform this upgrade before upgrading Oracle WebCenter Interaction.

1.1.5 Software Requirements for Sun Solaris Environments

This section lists the software requirements for Sun Solaris environments.

- Operating System:
 - Solaris 8 on 64-bit SPARC
 - Solaris 9 on 64-bit SPARC, requires the following patch: 111711-15 (32-bit Shared library patch for C++) or 111712-15 (64-bit Shared library patch for C++)
 - Solaris 10 on 64-bit SPARC
- Databases:
 - Oracle Database 10g (10.1.0.5 and above) or Oracle Database 10gR2 (10.2.0.2 and above) in default or Oracle Real Application Clusters (RAC) configuration
 - Oracle 11g (11.1.0.6 and above) in default or Oracle Real Application Clusters (RAC) configuration

When running Oracle 11g versions prior to 11.1.0.7.0 the Oracle system parameter `_optimizer_group_by_placement` must be set to `false`. This can either be set in the `init.ora` file of the respective database instances or by by issuing an `ALTER SYSTEM` command as follows:

```
SQLPLUS /nolog
CONNECT / AS SYSDBA
ALTER SYSTEM SET "_optimizer_group_by_placement"=false
```

Note: If you are upgrading Oracle Database from 10.1.x to 10.2.x, you should perform this upgrade before upgrading Oracle WebCenter Interaction.

1.1.6 Software Requirements for IBM AIX Environments

This section lists the software requirements for IBM AIX environments.

- Operating System:
 - IBM AIX 5.3 on 64-bit POWER, requires the following patches: AIX 5.3 Service pack 5300-05-06 and July 2007 IBM C++ Runtime Environment Component for AIX
- Databases:
 - Oracle Database 10g (10.1.0.5 and above) or Oracle Database 10gR2 (10.2.0.2 and above) in default or Oracle Real Application Clusters (RAC) configuration
 - Oracle 11g (11.1.0.6 and above) in default or Oracle Real Application Clusters (RAC) configuration

When running Oracle 11g versions prior to 11.1.0.7.0 the Oracle system parameter `_optimizer_group_by_placement` must be set to `false`. This can either be set in the `init.ora` file of the respective database instances or by by issuing an `ALTER SYSTEM` command as follows:

```
SQLPLUS /nolog
CONNECT / AS SYSDBA
ALTER SYSTEM SET "_optimizer_group_by_placement"=false
```

Note: If you are upgrading Oracle Database from 10.1.x to 10.2.x, you should perform this upgrade before upgrading Oracle WebCenter Interaction.

1.1.7 Supported Web Browsers

This section lists web browser support.

- Mozilla Firefox 2.0 and 3.0
- Microsoft Internet Explorer 6.0, 6.0 SP1, 6.0 SP2 (on XP), 7.0 (on Vista), or 7.0 SP2 (on XP SP2)
- Apple Safari 3.0 (on Microsoft Windows)

1.1.8 Additional Software Requirements

This section describes additional products required to run Oracle WebCenter Analytics.

- If you are running Oracle WebLogic Portal 10.3, you must install the Oracle WebLogic Portal patch. You can find the patch download tool in *install_dir/utls/bsu*. Instructions for the utility can be found here: http://download.oracle.com/docs/cd/E14759_01/doc.32/e14143/toc.htm. Follow the instructions for downloading Private Patches.
- Oracle WebCenter Analytics leverages Hibernate 3.0.5 for persistence. You must install Hibernate 3.0.5 before you install Oracle WebCenter Analytics. Hibernate 3.0.5 can be downloaded from http://sourceforge.net/project/showfiles.php?group_id=40712&package_id=127784.
- Oracle WebCenter Analytics leverages Cewolf 0.10.3 for its charting engine. You must install Cewolf 0.10.3 before you install Oracle WebCenter Analytics. Cewolf can be downloaded from <http://sourceforge.net/projects/cewolf/files/cewolf/cewolf-0.10.3/cewolf-0.10.3.zip/download>.

1.2 Default Ports Used by Oracle WebCenter Analytics

The following table summarizes the default ports that are used by Oracle WebCenter Analytics:

Table 1–1 Default ports used by Oracle WebCenter Analytics

Communication	Description
Portal to Oracle WebCenter Analytics port 31314	Used for data collection.
Portal to Oracle WebCenter Analytics port 11944	Used to display reports.
Portal URL (port number is environment-specific)	Used to synchronize portal objects.

Quickstart Overview

This chapter provides brief, high level instructions for the installation and upgrade of Oracle WebCenter Analytics, and is intended to quickly guide experienced administrators through the installation or upgrade procedure.

This chapter is divided into two major sections:

- [Section 2.1, "Installation."](#) This section covers installing and configuring the Oracle WebCenter Analytics components. The organization of this section maps directly to detailed instructions in [Chapter 3, "Installation."](#)
- [Section 2.2, "Upgrade."](#) This section covers upgrading version of Oracle WebCenter Analytics to the latest version. The organization of this section maps directly to detailed instructions in [Chapter 4, "Upgrade."](#)

2.1 Installation

Before you install Oracle WebCenter Analytics, ensure that you have completed pre-installation steps. For details, see [Chapter 1, "Installation Prerequisites."](#)

2.1.1 Granting User and Group Access Rights to Oracle Inventory Directories

(Linux/Unix only) Oracle Inventory contains files that provide the Oracle Universal Installer with the locations of the ORACLE_HOME directories on a particular machine. For Oracle Inventory to function properly, the user that installs Oracle WebCenter Analytics must have access rights to the directories that contain Oracle Inventory's files. This section describes how to run the ouais.sh shell script, which sets user and group access rights for these directories.

Note: You do not need to perform this procedure if you are installing Oracle WebCenter Analytics on Windows.

To grant user and group access rights to Oracle Inventory directories:

1. Log in to the remote server host computer as the root user.
2. Copy the ouais.sh script to the machine onto which you will be installing Oracle WebCenter Analytics.

This script is located in the same location as the Oracle WebCenter Analytics installer file.

3. Change the current directory (cd) to be the directory to which you copied the ouais.sh script.

4. Run the ouais.sh shell script.

As arguments to the script, specify the user and group that will be running the Oracle WebCenter Analytics installer. For example, you would use the following command to run the ouais.sh script from the root shell:

```
./ouais.sh -u oracleuser -g oraclegroup
```

The ouais.sh script creates the Oracle Inventory directory if it did not exist before you ran the script. Additionally, the script grants user and group ownership to the directories that contain the files that are used by Oracle Inventory.

2.1.2 Installing the Analytics Console Component

This section describes how to install the Analytics Console component and the BEA AL Analytics service. For more complete details on performing this task, see [Section 3.2, "Installing the Analytics Console Component."](#)

To install the Analytics Console Component:

1. Log in to the remote server host computer as the local administrator (on Windows) or a user with directory write privileges (on UNIX or Linux).

Note: For UNIX and Linux installations, you must run the Oracle WebCenter Analytics installer as the user that you specified in the procedure [Section 3.1, "Granting User and Group Access Rights to Oracle Inventory Directories."](#) You specified the user who will run the product installer as an argument to the ouais.sh script.

2. Copy the installer to the disk location from where you plan to launch it.
3. Launch the Oracle WebCenter Analytics Installer.
 - Windows: WebCenterAnalytics_WLP_10.3.0.1.0.exe
 - UNIX/Linux: WebCenterAnalytics_WLP_10.3.0.1.0
4. Choose to install the **Analytics Console** component.
5. Complete all installation wizard pages according to the settings you planned when you completed the Analytics Console Component Installation Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document

After the installer has copied all files to the installation directory, the Launch Configuration Manager installation wizard page appears.

6. Do not configure Analytics Console settings in Oracle WebCenter Configuration Manager at this time. First, configure the Oracle WebCenter Analytics database. For details see [Section 2.1.4, "Configuring the Oracle WebCenter Analytics Database."](#)
7. After configuring the Oracle WebCenter Analytics database, use the Oracle WebCenter Configuration Manager to configure all settings for all of the Analytics Console application components using the database and connectivity settings that you provisioned when you completed the Oracle WebCenter Analytics Configuration Worksheets document. For details see [Section 2.1.5, "Configuring Oracle WebCenter Analytics Console."](#)

2.1.3 Integrating Oracle WebCenter Analytics with WebLogic Portal

To integrate Oracle WebCenter Analytics with your WebLogic Portal, you must add Oracle WebCenter Analytics-specific facets to both your enterprise application and your web application. For more complete details on performing these tasks, see [Section 3.3, "Integrating Oracle WebCenter Analytics with Oracle WebLogic Portal."](#) This section discusses:

- Adding the Analytics Facet to your EAR Application
- Adding the Analytics Facet to your Web Application
- Configuring the Oracle WebCenter Analytics Integration
- Editing the analytics-config.xml File
- Deploying Oracle WebCenter Analytics

For more information about Oracle WebLogic Portal projects, EAR applications, and portal web applications, see the *Oracle Fusion Middleware Portal Development Guide for Oracle WebLogic Portal*.

2.1.3.1 Adding the Analytics Facet to Your EAR Application

In the Package Explorer view, right-click the EAR project. Select the **WebLogic Portal (Optional)** facet. All the optional facets for WebLogic Portal are selected by default; you can de-select facets you do not need, but leave the WebCenter Analytics Integration facet selected.

2.1.3.2 Adding the Analytics Facet to Your Web Application

In the Package Explorer view, right-click your web project. Select the **WebLogic Portal (Optional)** facet. All the optional facets for WebLogic Portal are selected by default; you can de-select facets you do not need, but leave the WebCenter Analytics Integration facet selected.

2.1.3.3 Editing the analytics-config.xml File

To complete the Oracle WebCenter Analytics integration within your development environment, edit the Oracle WebCenter Analytics configuration file. To do this, you must know the following:

- The Analytics Administration URL
- The Analytics Reports URL
- The Open API Config fully-qualified domain name and port number

To edit the configuration file:

1. In the Merged Projects tab, copy the analytics-config.xml file to your project.
2. Edit the analytics-config.xml file to match the configuration of the configuration of your Oracle WebCenter Analytics environment.

For detailed instructions on editing this file, including a sample of the file, see [Section 3.3.3, "Editing the analytics-config.xml File."](#)

2.1.3.4 Deploying Oracle WebCenter Analytics In Your Production Domain

Use the WebLogic Server Console to add the Analytics library to your production domain and ensure it is deployed on every server within your cluster. You must deploy two libraries: wlp-analytics-web-lib.war and wlp-analytics-app-lib.ear.

2.1.4 Configuring the Oracle WebCenter Analytics Database

Perform one of the following procedures that is appropriate to your database platform:

- [Section 2.1.4.1, "Configuring the Oracle WebCenter Analytics Database on Microsoft SQL Server"](#)
- [Section 2.1.4.2, "Configuring the Oracle WebCenter Analytics Database on Oracle"](#)

2.1.4.1 Configuring the Oracle WebCenter Analytics Database on Microsoft SQL Server

For more complete details on performing this task, see [Section 3.4.1, "Configuring the Oracle WebCenter Analytics Database on Microsoft SQL Server."](#)

To set up the Oracle WebCenter Analytics database on Microsoft SQL Server:

1. On the machine to which you installed the Analytics Console component, copy the scripts from *install_dir\ptanalytics\10.3.0.1\sql\mssql* to the database host computer.
2. In SQL Server Management Studio, access the database engine's properties.
3. Configure the database engine to use **SQL Server and Windows Authentication mode**.
4. Restart the database engine.
5. Create the Oracle WebCenter Analytics database user:
 - a. Create the Oracle WebCenter Analytics database user with the user name you provisioned when you completed the Configuration Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document.
 - b. Configure the Oracle WebCenter Analytics database user to use SQL Server Authentication.
 - c. Set the Oracle WebCenter Analytics database user password to the password you designated when you completed the Oracle WebCenter Analytics Configuration Worksheets document.
6. Create the Oracle WebCenter Analytics database with the following properties:
 - Create a database with the name you provisioned when you completed the Configuration Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document.
 - Configure the size of the database.
 - Change the default database for the Oracle WebCenter Analytics database user to the Oracle WebCenter Analytics database.
7. Grant the Oracle WebCenter Analytics database user the `db_owner` role for the Oracle WebCenter Analytics database.
8. Create the Oracle WebCenter Analytics database schema. Specify the Oracle WebCenter Analytics database user as the schema owner.
9. Connect to the Oracle WebCenter Analytics database as the Oracle WebCenter Analytics database user, using SQL Server Authentication.

10. Run the setup scripts for the database, located in the *install_dir\ptanalytics\10.3.0.1\sql\mssql* folder, in the following order (make sure that you are running the scripts on the Oracle WebCenter Analytics database):
 - a. *create_analytics_schema.sql*
 - b. *install_analytics_data.sql*

2.1.4.2 Configuring the Oracle WebCenter Analytics Database on Oracle

For more complete details on performing this task, see [Section 3.4.2, "Configuring the Oracle WebCenter Analytics Database on Oracle."](#)

To create and set up an Oracle database:

1. On the machine to which you installed the Analytics Console component, copy the *\oracle* directory from *install_dir\ptanalytics\10.3.0.1\sql* to the Oracle WebCenter Analytics database's host computer.
2. Log on to the host computer for the Oracle WebCenter Analytics database as owner of the Oracle system files.
3. Execute the following steps as the *system* user in your Oracle database.
 - a. Determine the name of the SID that you will be using for this installation. If you changed the SID from the default when you installed the portal, you need to update *create_analytics_tablespaces.sql* to reflect the SID that you used, substituting all occurrences of the default SID name with your SID name. The default SID name is *BEAS*.

If you are creating a new SID, configure *AL32UTF8* as the database character set and *AL16UTF16* as the national character set.
 - b. Run the script *create_analytics_tablespaces.sql* for your platform.
 - c. Run the script *create_analytics_user.sql*.

Note: If you do not want the script to use the defaults when creating the Oracle database user and password, edit the script. The default user is *analyticsdbuser*; the default password is *analyticsdbuser*.

- d. Add the Oracle database user and password values into the Configuration Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document (you will enter these values into Oracle WebCenter Configuration Manager when configuring Oracle WebCenter Analytics database settings).
4. Execute the following steps as the *analytics* user that you just created.
 - a. Run the script *create_analytics_schema.sql*.
 - b. Run the script *install_analytics_data.sql*.
5. Run your database's analysis tool on the portal database to the efficiency of the database.

2.1.5 Configuring Oracle WebCenter Analytics Console

This section describes how to configure Oracle WebCenter Analytics Console. For more complete details on performing this task, see [Section 3.5, "Configuring Oracle WebCenter Analytics Console."](#)

Note:

- We recommend that you sync the clocks on the servers that run Oracle WebCenter Analytics and the portal before proceeding with configuration. If the clocks are not aligned, some events and sync jobs behave incorrectly.
 - Different sets of component-specific configuration pages appear, depending on the components that you just installed.
-

To configure Oracle WebCenter Analytics Console:

1. Open the Configuration Manager by opening the following location in a web browser: `http://localhost:port_number`. By default, the port number is 12345.

To log in, use the default username, *administrator* and the password that you typed into the Configuration Manager - Port and Password installation wizard page.
2. Configure all settings for all of the Analytics Console components using the database and connectivity settings that you provisioned when you completed the *Oracle WebCenter Analytics Configuration Worksheets* document. Click the + symbol next to the Analytics Console application name to view its components. For information on the settings in the Configuration Manager, refer to the Configuration Manager online help.
3. On the final page, click **Finish**.

2.1.6 Registering Core and Portal Events

You must register core and portal events if you want Oracle WebCenter Analytics to report on events that occur in the portal. To register core and portal events, run the following from the command line on the Oracle WebCenter Analytics host machine:

- Windows:
 1. `.. PTANALYTICS_HOME\bin\AnalyticsLoadEvents.bat`
`\settings\config\analytics-core-event-def.xml`
 2. `.. PTANALYTICS_HOME\bin\AnalyticsLoadEvents.bat`
`\settings\config\analytics-wlp-event-def.xml`
- UNIX/Linux:
 1. `.. PTANALYTICS_HOME/bin/AnalyticsLoadEvents.sh`
`/settings/config/analytics-core-event-def.xml`
 2. `.. PTANALYTICS_HOME/bin/AnalyticsLoadEvents.sh`
`/settings/config/analytics-wlp-event-def.xml`

2.1.7 Updating Portal Elements

You must update portal elements, such as desktops, pages, and portlets. To register core and portal events, run the following scripts from the command line on the Oracle WebCenter Analytics host machine:

- Windows: ..PTANALYTICS_HOME\bin\AnalyticsRunJobs.bat
- UNIX/Linux: ..PTANALYTICS_HOME/bin/AnalyticsRunJobs.sh

2.1.8 Installing the Analytics Collector Component and Clustering the BEA AL Analytics Collector Service

This section includes the following topics:

- [Section 2.1.8.1, "Installing the Analytics Collector Component"](#)
- [Section 2.1.8.2, "Clustering the BEA AL Analytics Collector Service"](#)

2.1.8.1 Installing the Analytics Collector Component

This section describes how to install the Analytics Collector component, which includes the BEA AL Analytics Collector service. For more complete details on performing this task, see [Section 3.8.1, "Installing the Analytics Collector Component."](#)

Note: If you want to cluster the BEA AL Analytics Collector service, we recommend that you install each node in the cluster on a separate machine (one installation of the Analytics Collector component is one instance of the BEA AL Analytics Collector service). One instance of the BEA AL Analytics Collector service operates as one node in the cluster).

To install the Analytics Collector component:

1. Log in to the remote server host computer as the local administrator (on Windows) or a user with directory write privileges (on UNIX or Linux).
2. Copy the installer to the disk location from where you plan to launch it.
3. Launch the Oracle WebCenter Analytics Installer.
 - Windows: WebCenterAnalytics_WLP_10.3.0.1.0.exe
 - UNIX/Linux: WebCenterAnalytics_WLP_10.3.0.1.0
4. Choose to install the Analytics Collector component.
5. Complete all installation wizard pages according to the settings you planned when you completed the Analytics Collector Component Installation Worksheet, which is included in the *Oracle WebCenter Analytics Configuration Worksheets* document.
6. After the installer has copied all files to the installation directory, the Launch Configuration Manager installation wizard page appears. If this computer does not include an installation of Oracle WebCenter Analytics Console, click the link to launch Oracle WebCenter Configuration Manager, and configure all settings for all of the Analytics Collector application components using the database and connectivity settings that you provisioned when you completed the *Oracle WebCenter Analytics Configuration Worksheets* document.

Note: If this computer includes an installation of Oracle WebCenter Analytics Console, the settings you configured for Oracle WebCenter Analytics Console apply to this installation of Analytics Collector. Changes you make to the configuration settings for Oracle WebCenter Analytics Console affect the configuration settings for an instance of Analytics Collector installed on the same computer, and vice versa.

2.1.8.2 Clustering the BEA AL Analytics Collector Service

(Optional) A BEA AL Analytics Collector service cluster consists of multiple BEA AL Analytics Collector service nodes running simultaneously and working together to provide increased scalability and reliability. One instance of the BEA AL Analytics Collector service operates as one node in the cluster.

Note: You do not need to perform these steps if you do not want to cluster the BEA AL Analytics Collector service.

For complete details on performing this task, see [Section 3.8.2, "Clustering the BEA AL Analytics Collector Service."](#) For information on how clustering works, see [Section 3.8.2.1, "How a Cluster Works."](#)

To cluster the BEA AL Analytics Collector service:

1. Configure Oracle WebLogic Portal to send events to the BEA AL Analytics Collector service cluster. For details, see "[Configuring Oracle WebLogic Portal to Send Events to the Cluster](#)".
2. Configure the nodes in the BEA AL Analytics Collector service cluster. For details, see "[Configuring Nodes in a Cluster](#)".

Configuring Oracle WebLogic Portal to Send Events to the Cluster

To configure Oracle WebLogic Portal to send events to the BEA AL Analytics Collector service cluster:

1. Access Oracle WebCenter Configuration Manager on the machine on which Oracle WebLogic Portal is installed.
2. Configure the following settings in the Analytics Communication component:
 - Confirm that the **Enabled** check box is selected in the Enable area.
 - Click **Enabled** in the Use Clustering area.
 - Configure the following settings in the Cluster Communication area: **Cluster name**, **Cluster node timeout period**, **Broadcast listening port**.

Online help for these settings is available in the Oracle WebCenter Configuration Manager application.

Configuring Nodes in a Cluster

This section discusses how to configure nodes in a BEA AL Analytics Collector service cluster.

If you are configuring nodes of the BEA AL Analytics Collector service to use broadcast mode, IP broadcast packets are not automatically forwarded from one subnet to another. For this reason, you should configure each instance of the BEA AL Analytics Collector service to be in the same subnet as the application from which it receives events. This configuration ensures that the event-generating applications can

successfully receive broadcast messages from the Collector service cluster. If you use virtualization software, we recommend that you configure nodes of the BEA AL Analytics Collector service to use broadcast mode.

Note:

- Perform this procedure for each node in the cluster.
 - If this computer includes an installation of Oracle WebCenter Analytics Console, the settings you configured for Oracle WebCenter Analytics Console apply to this installation of Analytics Collector. Changes you make to the configuration settings for Oracle WebCenter Analytics Console affect the configuration settings for an instance of Analytics Collector installed on the same computer, and vice versa.
-
-

To configure a node in a BEA AL Analytics Collector service cluster:

1. Ensure that you have installed the Analytics Collector component on each machine that will host a node in the cluster.

Note: Oracle recommends that each instance of the BEA AL Analytics Collector service exist on a separate machine.

For installation instructions, see [Section 2.1.8.1, "Installing the Analytics Collector Component."](#)

2. Access Oracle WebCenter Configuration Manager on the BEA AL Analytics Collector service host.
3. Click the + symbol next to the **Analytics Collector** application name to view its components.
4. Configure the settings in the Analytics Database component.
5. Configure the settings in the Clustering component.

Note: The value for the **Cluster name** field should match the value set for the Cluster name field in the Portal Service application, Analytics Communication component of Oracle WebCenter Configuration Manager on the portal host. You configured this setting when you performed the procedure ["Configuring Oracle WebLogic Portal to Send Events to the Cluster"](#).

6. Configure the settings in the Logging component.

Online help for these settings is available in the Oracle WebCenter Configuration Manager application.

2.1.9 Starting the BEA AL Analytics and BEA AL Analytics Collector Services

For more complete details on performing this task, see [Section 3.9, "Starting the BEA AL Analytics and BEA AL Analytics Collector Services."](#)

To start the BEA AL Analytics and BEA AL Analytics Collector services, perform one of the following:

- On Windows, ensure the BEA AL Analytics service has been started in Windows NT Services. Then ensure the BEA AL Analytics Collector service has been started.
- On UNIX and Linux, ensure the BEA AL Analytics service has been started by using the following command: `install_dir/ptanalytics/10.3.0.1/bin/analyticsd.sh start`

Then ensure the BEA AL Analytics Collector service has been started by using the following command: `install_dir/ptcollector/10.3.0.1/bin/collectord.sh start`

You can also start and stop these services using Oracle WebCenter Configuration Manager. Log in to Oracle WebCenter Configuration Manager using the user name Administrator and the password you specified during installation. Follow the instructions in Oracle WebCenter Configuration Manager to start the Analytics Console and Analytics Collector applications.

2.2 Upgrade

This section describes how to upgrade Oracle WebCenter Analytics.

2.2.1 Upgrade Paths

The following table summarizes the supported database upgrade paths for Oracle WebCenter Analytics.

Table 2–1 Upgrade Paths

Upgrade Path	Upgrade References
AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1.	Follow the procedures in Section 2.2.2, "Upgrading from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1."

2.2.2 Upgrading from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1

To upgrade from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1:

1. Delete the \Analytics folder beneath the `install_dir\common\container\tomcat\5.0.28\work` directory.
2. Back up the installation directory of the previously-installed version of Analytics Services, using the tool of your choice.
3. Grant user and group access rights to Oracle Inventory directories. For details, see [Section 2.1.1, "Granting User and Group Access Rights to Oracle Inventory Directories."](#)
4. Install the Analytics Console component. For details, see [Section 2.1.2, "Installing the Analytics Console Component."](#)

Note: When performing the installation process, ensure that the Oracle WebCenter Analytics database settings are correct in Oracle WebCenter Configuration Manager. However, do not configure any other Analytics Console settings in Oracle Configuration Manager at this time.

5. Integrate Oracle WebCenter Analytics with the portal. For details, see [Section 2.1.3, "Integrating Oracle WebCenter Analytics with WebLogic Portal."](#)

6. Back up the AquaLogic Analytics database using the tool of your choice.
7. Upgrade the AquaLogic Analytics database by running the `upgrade_wlp_2.1_to_10.3.0.1.sql` script:
 - Windows: `install_dir\ptanalytics\10.3.0.1\sql\database\upgrade_wlp_2.1_to_10.3.0.1.sql`
 - UNIX/Linux: `install_dir/ptanalytics/10.3.0.1/sql/database/upgrade_wlp_2.1_to_10.3.0.1.sql`
8. Run the `Analytics25Update.bat` file:
 - Windows: `install_dir\ptanalytics\10.3.0.1\bin\Analytics25Update.bat`
 - UNIX/Linux: `install_dir/ptanalytics/10.3.0.1/bin/Analytics25Update.sh`
9. **(Oracle database only)** Run your database's analysis tool on both the Oracle WebCenter Analytics and portal databases to increase the efficiency of the databases.
10. Configure Oracle WebCenter Analytics console using the Oracle WebCenter Configuration Manager. For details, see [Section 2.1.5, "Configuring Oracle WebCenter Analytics Console."](#)
11. Register portal events. For details, see [Section 2.1.6, "Registering Core and Portal Events."](#)
12. Install the Analytics Collector component, configure Analytics Collector settings in Oracle WebCenter Configuration Manager. and, optionally, cluster the BEA AL Analytics Collector service. For details, see [Section 2.1.8, "Installing the Analytics Collector Component and Clustering the BEA AL Analytics Collector Service."](#)
13. Stop and restart the BEA AL Analytics and BEA AL Analytics Collector services. For details, see [Section 2.1.9, "Starting the BEA AL Analytics and BEA AL Analytics Collector Services."](#)

Installation

This chapter describes the steps you take to install Oracle WebCenter Analytics and its components:

1. Ensure you have completed pre-installation steps. For details, see [Chapter 1, "Installation Prerequisites."](#)
2. Grant user and group access rights to Oracle Inventory directories. For details, see [Section 3.1, "Granting User and Group Access Rights to Oracle Inventory Directories."](#)
3. Install the Analytics Console component on the remote server host computer. For details, see [Section 3.2, "Installing the Analytics Console Component."](#)
4. Integrate Oracle WebCenter Analytics with the portal. For details, see [Section 3.3, "Integrating Oracle WebCenter Analytics with Oracle WebLogic Portal."](#)
5. Configure the Oracle WebCenter Analytics database. For details, see [Section 3.4, "Configuring the Oracle WebCenter Analytics Database."](#)
6. Configure Oracle WebCenter Analytics console using the Oracle WebCenter Configuration Manager. For details, see [Section 3.5, "Configuring Oracle WebCenter Analytics Console."](#)
7. Register portal events. For details, see [Section 3.6, "Registering Core and Portal Events."](#)
8. Install the Analytics Collector component and, optionally, cluster the BEA AL Analytics Collector service. For details, see [Section 3.8, "Installing the Analytics Collector Component and Clustering the BEA AL Analytics Collector Service."](#)
9. Start Oracle WebCenter Analytics and portal services. For details, see [Section 3.9, "Starting the BEA AL Analytics and BEA AL Analytics Collector Services."](#)

3.1 Granting User and Group Access Rights to Oracle Inventory Directories

(Linux/UNIX only) Oracle Inventory contains files that provide the Oracle Universal Installer with the locations of the ORACLE_HOME directories on a particular machine. For Oracle Inventory to function properly, the user that installs Oracle WebCenter Analytics must have access rights to the directories that contain Oracle Inventory's files. This section describes how to run the ouais.sh shell script, which sets user and group access rights for these directories.

Note: You do not need to perform this procedure if you are installing Oracle WebCenter Analytics on Windows.

To grant user and group access rights to Oracle Inventory directories:

1. Log in to the remote server host computer as the root user.
2. Copy the ouais.sh script to the machine onto which you will be installing Oracle WebCenter Analytics.

This script is located in the same location as the Oracle WebCenter Analytics installer file.

3. Change the current directory (cd) to be the directory to which you copied the ouais.sh script.
4. Run the ouais.sh shell script.

As arguments to the script, specify the user and group that will be running the Oracle WebCenter Analytics installer. For example, you would use the following command to run the ouais.sh script from the root shell:

```
./ouais.sh -u oracleuser -g oraclegroup
```

The ouais.sh script creates the Oracle Inventory directory if it did not exist before you ran the script. Additionally, the script grants user and group ownership to the directories that contain the files that are used by Oracle Inventory.

3.2 Installing the Analytics Console Component

This section describes how to install the Analytics Console component, which includes the Analytics user interface and the BEA AL Analytics service. The instructions are the same for installing on a Windows, UNIX, or Linux host, with slight exceptions as noted. To install the Analytics Console component:

1. Log in to the remote server host computer as the local administrator (on Windows) or a user with directory write privileges (on UNIX or Linux).

Note: For UNIX and Linux installations, you must run the Oracle WebCenter Analytics installer as the user that you specified in the procedure [Section 3.1, "Granting User and Group Access Rights to Oracle Inventory Directories."](#) You specified the user who will run the product installer as an argument to the ouais.sh script.

2. Copy the installer to the disk location from where you plan to launch it. The installer file is one of the following:
 - Windows: WebCenterAnalytics_WLP_10.3.0.1.0.exe
 - UNIX/Linux: WebCenterAnalytics_WLP_10.3.0.1.0
3. Close all unnecessary applications.
4. Execute the installer file.
5. Complete the installation wizard pages as described in the following table and according to the settings you planned when you completed the BEA AL Analytics Service Installation Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document.

Table 3–1 Installation Wizard Pages - Analytics Console Component

Wizard Page	Description
Choose Components	Choose Analytics Console .
Analytics Console - Installation Directory	<p>The default is:</p> <ul style="list-style-type: none"> ■ <i>install_dir</i>\ptanalytics (Windows) ■ <i>install_dir</i>/ptanalytics (UNIX and Linux) <p>Note: By default, <i>install_dir</i> is C:\bea\alui (Windows) and /opt/bea/alui (UNIX/Linux)</p>
Analytics Persistence Library Update	Specify the path to the file containing the Hibernate 3.0.5 distribution.
Analytics Chart Library Update	Specify the path to the file containing the Cewolf 0.10.3 distribution.
Configuration Manager - Port and Password	<p>This page is displayed if you chose to update Oracle WebCenter Configuration Manager's password and port information or if you are installing Oracle WebCenter Configuration Manager for the first time.</p> <p>Type the port number on which you want Oracle WebCenter Configuration Manager to service requests.</p> <p>By default, the port number is 12345. After running the installer, you will be able to access Oracle WebCenter Configuration Manager by using the following URL: https://localhost:port_number.</p> <p>Also type and confirm the Administrator password that you will use to log into Oracle WebCenter Configuration Manager. The password is case-sensitive.</p> <p><i>In Windows, the Oracle WebCenter Configuration Manager runs as the BEA AL Configuration Manager(port_number) service.</i></p>
Pre-Installation Summary	<p>Click Install to begin the installation. The installer copies the BEA AL Analytics service and core application files to the installation directory.</p> <p>Note: The installer writes a log file to the directory where it is installed (for example: C:\bea\alui\installlogs). If you encounter problems during installation, examine the error messages in the log file.</p>

Table 3–1 (Cont.) Installation Wizard Pages - Analytics Console Component

Wizard Page	Description
Launch Configuration Manager	<p>This installation wizard page lets you access Oracle WebCenter Configuration Manager to configure settings for the core Oracle WebCenter Analytics application. It is important that you perform these steps in the following order:</p> <ol style="list-style-type: none"> 1. Before launching Oracle WebCenter Configuration Manager, you must configure the Oracle WebCenter Analytics database, described in Section 3.4, "Configuring the Oracle WebCenter Analytics Database." 2. Click the link on this installation wizard page to access Oracle WebCenter Configuration Manager. The default username for logging into Oracle WebCenter Configuration Manager is <i>administrator</i>. Use the password that you typed into the Configuration Manager - Port and Password installation wizard page. 3. In Oracle WebCenter Configuration Manager, click the + symbol next to the Analytics Console application name to view its components. 4. Configure all settings for all of the Analytics Console components using the database and connectivity settings that you provisioned when you completed the Oracle WebCenter Analytics Configuration Worksheets document. For information on the settings in the Configuration Manager, refer to the Configuration Manager online help or to Section 3.5, "Configuring Oracle WebCenter Analytics Console." Note: We recommend that you sync the clocks on the servers that run Oracle WebCenter Analytics and the portal before proceeding with configuration. If the clocks are not aligned, some events and sync jobs behave incorrectly. 5. (Optional) Click LOGOUT in Oracle WebCenter Configuration Manager.
Application Settings Confirmation	<p>Select Yes if you have completed configuration of the Oracle WebCenter Analytics settings.</p> <p>Select No, configure later to complete the installer without configuring the Oracle WebCenter Analytics settings. You must run the Oracle WebCenter Configuration Manager and configure Oracle WebCenter Analytics settings before starting Oracle WebCenter Analytics.</p>
Install Complete	Click Done to complete the Analytics Console component installation.

3.3 Integrating Oracle WebCenter Analytics with Oracle WebLogic Portal

To integrate Oracle WebCenter Analytics with your Oracle WebLogic Portal, you must add Oracle WebCenter Analytics-specific facets to both your enterprise application and your web application. Additionally, you must edit the analytics-config.xml file, then deploy Oracle WebCenter Analytics. This section discusses:

1. [Section 3.3.1, "Adding the Analytics Facet to Your EAR Application"](#)
2. [Section 3.3.2, "Adding the Analytics Facet to Your Web Application"](#)
3. [Section 3.3.3, "Editing the analytics-config.xml File"](#)

These instructions assume that you already have configured a portal to integrate with Oracle WebCenter Analytics. For more information about Oracle WebLogic Portal projects, EAR applications, and portal web applications, see the *Oracle Fusion Middleware Portal Development Guide for Oracle WebLogic Portal*.

3.3.1 Adding the Analytics Facet to Your EAR Application

To add the Analytics facet to your EAR application:

1. Launch Oracle Workshop for WebLogic.

Open the workspace that contains the Oracle WebLogic Portal project for which you want to deploy Oracle WebCenter Analytics.

2. In the Package Explorer view, right-click the EAR Project to which you want to add the Analytics facet, and choose **Properties**.
3. Click **Project Facets** in the tree that is displayed in the left pane of the dialog.
4. Click **Modify Project**.

The Project Facets dialog appears.

5. Expand and select the **WebLogic Portal (Optional)** check box.

All the optional facets for Oracle WebLogic Portal are selected by default, including the WebCenter Analytics Integration facet. You can de-select facets you do not need, but leave the WebCenter Analytics Integration facet selected.

6. Click **Finish**.

The Project Facets dialog closes.

7. Click **OK**.

The Package Explorer view includes the new facet content.

3.3.2 Adding the Analytics Facet to Your Web Application

To add the Analytics facet to your web application:

1. In the Package Explorer view, right-click the web project to which you want to add the Analytics facet and choose **Properties**.
2. Click **Project Facets** in the tree that is displayed in the left pane of the dialog.

The project facets associated with your web project appear in the table.

3. Click **Modify Project**.

The Project Facets dialog displays.

4. Expand and select the **WebLogic Portal (Optional)** check box.

All the optional facets for Oracle WebLogic Portal are selected by default, including the WebCenter Analytics Integration facet. You can de-select facets you do not need, but leave the WebCenter Analytics Integration facet selected.

5. Click **Finish** to add the selected facet.
6. Click **OK**.

3.3.3 Editing the analytics-config.xml File

To complete the Oracle WebCenter Analytics integration within your development environment, you need to edit the Oracle WebCenter Analytics configuration file. To do this, you must know:

- The Analytics Administration URL.
- The Analytics Reports URL.
- The Open API Config fully-qualified domain name and port number.

To edit the configuration file:

1. In Oracle Workshop for WebLogic, on the Merged Projects tab, navigate to the analytics-config.xml file in the navigation tree:
//yourEAR/META-INF/templates/analytics-config.xml.
2. Right-click the analytics-config.xml file and select **Copy To Project**.
3. On the Project Explorer tab, navigate to the copied analytics-config.xml file:
//yourEAR/EarContent/META-INF/analytics-config.xml
4. Right-click the file and select Open With > Text Editor.
5. Edit the analytics-config.xml file to match the configuration of your Oracle WebCenter Analytics environment.

See below for a sample analytics-config.xml file that includes explanatory comments.

6. Save the edited configuration file.

3.3.3.1 Sample analytics-config.xml File

```
<?xml version="1.0"?>
<analytics-config xmlns="http://www.bea.com/ns/portal/90/analytics-config">
<!-- Ensure that the enabled attribute is defined as "true". --!>
    <enabled>true</enabled>
<!-- When configuring Analytics to work with WebLogic Portal, you must use
fully-qualified domain names (server.domain.com) when referencing Analytics
Administration, the WebLogic Portal Administration Console, and the Analytics
Configuration Tool when editing the XML configuration file. You cannot use IP
addresses. --!>
<!-- Use the open-api-config element to define the fully-qualified domain name
and port of the machine on which Analytics is installed. --!>
    <open-api-config>
        <host-name>work.bea.com</host-name>
        <port>31314</port>
    </open-api-config>
<!-- In the reports-url element, replace work.bea.com with the fully-qualified
domain name that you defined in the open-api-config element. --!>
    <reports-url>http://work.bea.com:11944/analytics/ui/console.jsf?EnterpriseAppName=
{url:enterpriseAppName}&WebAppName={url:webAppName}</reports-url>
<!-- In the admin-url element, replace work.bea.com with the fully-qualified
domain name that you defined in the open-api-config element. --!>
    <admin-url>http://work.bea.com:11944/asmanager/ui/runtimemgr.jsf?EnterpriseAppName
={url:enterpriseAppName}&WebAppName={url:webAppName}</admin-url>
<!-- Optionally, add references to WebLogic Portal property sets for collection
of Analytics user profile information. User profile values for the referenced
Property Set attributes will be collected on behalf of users when they log into a
portal application and sent along for storage in the Analytics database. These
profile values can then be used for report filtering in the Analytics
Administration Console.
For more information about property sets, see the WebLogic Portal User Management
Guide. --!>
    <profile-property>GroupSpace:im_id</profile-property>
    <profile-property>GroupSpace:phone_number</profile-property>
    <profile-property>GroupSpace:first_name</profile-property>
    <profile-property>GroupSpace:timezone</profile-property>
    <profile-property>GroupSpace:email</profile-property>
    <profile-property>GroupSpace:last_name</profile-property>
    <profile-property>GroupSpace:title</profile-property>
</analytics-config>
```

3.3.4 Deploying Oracle WebCenter Analytics

Use the WebLogic Server Console to add the Analytics library to your production domain and ensure that it is deployed on every server within your cluster. The steps that you take and issues you need to consider might differ depending on the environment to which you are deploying Oracle WebCenter Analytics (deployment, staging, or production).

3.3.4.1 Example: Deploying Oracle WebCenter Analytics in a Production Environment

The following procedure provides an example of deploying Oracle WebCenter Analytics to a Oracle WebLogic Portal domain in a production environment:

1. In Oracle Workshop for WebLogic, ensure that the server on which you want to run Oracle WebCenter Analytics is running.

If you need to start the server, be aware that it will probably take a few minutes to complete the startup process. Wait until the server's state has changed to *Started*.

2. In Oracle Workshop for WebLogic, deploy the EAR Project to the server that you ensured was running in Step 1.
3. From the WebLogic Portal domain on which you wish to deploy Oracle WebCenter Analytics, run the WebLogic Server Administration Console.

The default URL to access the WebLogic Server Console is:
`http://localhost:7001/console`

4. Log in to WebLogic Server Administration Console.

The default username is `weblogic`; the default password is `weblogic`.

5. In the Change Center section, click **Lock & Edit**.
6. In the Domain Structure section, click **Deployments**. This displays a list of the deployed components.
7. In the Summary of Deployments section, click the **Control** tab.
8. Navigate to and select the portal EAR Project that you want to install.
9. Click **Install**.

The portal .EAR Project is installed.

10. In the Install Application Assistant window, navigate to the location of the `wlp-analytics-web-lib.war` file and select it (*WebLogic_Portal_Home/analytics/lib/j2ee-modules/wlp-analytics-web-lib.war*).

11. Click **Next**.

12. Select **Install this deployment as a library** and click **Next**.

13. On the Install Application Assistant page, make any configuration changes that are necessary.

To access additional documentation for changing the configuration on this page, click the **Help** button on this page

14. Click **Finish**.

15. Optionally, verify that the library is deployed to the server.

- a. In the Deployments table, navigate to the library you just deployed.

- b. Click the name of the library to new its configuration.
 - c. In the Targets tab, verify that the library is targeting the correct server(s).
 - d. Click **Save**.
16. In the Change Center section, click **Activate Changes**.
17. Repeat steps 6-17 for to install the deployed wlp-analytics-app-lib.ear library.

3.4 Configuring the Oracle WebCenter Analytics Database

This section describes how to set up the Oracle WebCenter Analytics database. It contains the following sections:

- [Section 3.4.1, "Configuring the Oracle WebCenter Analytics Database on Microsoft SQL Server"](#)
- [Section 3.4.2, "Configuring the Oracle WebCenter Analytics Database on Oracle"](#)

3.4.1 Configuring the Oracle WebCenter Analytics Database on Microsoft SQL Server

To create and set up the Oracle WebCenter Analytics database on Microsoft SQL Server:

1. On the machine to which you installed the Analytics Console component, copy the scripts from *install_dir*\ptanalytics\10.3.0.1\sql\mssql to the database host computer.
2. In SQL Server Management Studio, access database engine's properties.
3. Configure the database engine to use **SQL Server and Windows Authentication mode**.
4. Restart the database engine.
5. Create the Oracle WebCenter Analytics database user:
 - a. Create the Oracle WebCenter Analytics database user with the user name you provisioned when you completed the Configuration Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document.
 - b. Configure the Oracle WebCenter Analytics database user to use SQL Server Authentication.
 - c. Set the Oracle WebCenter Analytics database user password to the password you designated when you completed the Oracle WebCenter Analytics Configuration Worksheets document.
6. Create the Oracle WebCenter Analytics database with the following properties:
 - Create a database with the name you provisioned when you completed the Configuration Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document.
 - Configure the size of the database. The growth of the database is directly correlated to the number of *events* present in the system. Events include such things as page views, portlet views, user logins, and discussion posts. Estimate 100 MB of growth per 1 million events. For example, if your portal receives roughly 1 million events per day, you should anticipate growth of 36.5 GB per year.

- Change the default database for the Oracle WebCenter Analytics database user to the Oracle WebCenter Analytics database.
- 7. Grant the Oracle WebCenter Analytics database user the `db_owner` role for the Oracle WebCenter Analytics database.
- 8. Create the Oracle WebCenter Analytics database schema. Specify the Oracle WebCenter Analytics database user as the schema owner.
- 9. Connect to the Oracle WebCenter Analytics database as the Oracle WebCenter Analytics database user, using SQL Server Authentication.
- 10. Run the setup scripts for the database, located in the *install_dir\ptanalytics\10.3.0.1\sql\mssql* folder, in the following order (make sure that you are running the scripts on the Oracle WebCenter Analytics database):
 - a. `create_analytics_schema.sql`
 - b. `install_analytics_data.sql`

3.4.2 Configuring the Oracle WebCenter Analytics Database on Oracle

To create and set up the Oracle WebCenter Analytics database on Oracle:

1. On the machine to which you installed the Analytics Console component, copy the `\oracle` directory from *install_dir\ptanalytics\10.3.0.1\sql* to the Oracle WebCenter Analytics database's host computer. This folder contains the scripts that you will use to set up and configure the Oracle WebCenter Analytics Oracle database.
2. Log on to the host computer for the Oracle WebCenter Analytics database as owner of the Oracle system files.
3. Execute the following steps as the *system* user in your Oracle database.
 - a. Determine the name of the SID that you will be using for this installation. If you changed the SID from the default when you installed the portal, you need to update `create_analytics_tablespace.sql` to reflect the SID that you used, substituting all occurrences of the default SID name with your SID name. The default SID name is `BEAS`.

If you are creating a new SID, configure `AL32UTF8` as the database character set and `AL16UTF16` as the national character set.
 - b. Run the script `create_analytics_tablespace.sql` for your platform. This file is located in a platform specific subdirectory within the `\oracle` directory that you copied in Step 1.
 - c. Run the script `create_analytics_user.sql`.

Note: If you do not want the script to use the defaults when creating the Oracle database user and password, edit the script. The default user is `analyticssdbuser`; the default password is `analyticssdbuser`. The `create_analytics_user.sql` script is located in the `\oracle` directory that you copied in Step 1.

- d. Add the Oracle database user and password values into the Configuration Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document (you will enter these values into Oracle

WebCenter Configuration Manager when configuring Oracle WebCenter Analytics database settings).

4. Execute the following steps as the *analytics* user that you just created.
 - a. Run the script `create_analytics_schema.sql`. This script creates all of the tables and indexes that are necessary to run Oracle WebCenter Analytics. The `create_analytics_schema.sql` script is located in the **oracle** directory that you copied in Step 1.
 - b. Run the script `install_analytics_data.sql`. This script adds all of the initial seed data that are necessary to run the Oracle WebCenter Analytics product. The `install_analytics_data.sql` script is located in the `\oracle` directory that you copied in Step 1.
5. Run your database's analysis tool on the portal database to the efficiency of the database.

3.5 Configuring Oracle WebCenter Analytics Console

This section describes how to configure Oracle WebCenter Analytics Console.

Note:

- We recommend that you sync the clocks on the servers that run Oracle WebCenter Analytics and the portal before proceeding with configuration. If the clocks are not aligned, some events and sync jobs behave incorrectly.
 - Different sets of component-specific configuration pages appear, depending on the components that you just installed.
-
-

To configure Oracle WebCenter Analytics Console:

1. Open the Configuration Manager by opening the following location in a web browser: `http://localhost:port_number`. By default, the port number is 12345.

To log in, use the default username, *administrator* and the password that you typed into the Configuration Manager - Port and Password installation wizard page.
2. Configure all settings for all of the Analytics Console components using the database and connectivity settings that you provisioned when you completed the *Oracle WebCenter Analytics Configuration Worksheets* document. Click the + symbol next to the Analytics Console application name to view its components. For information on the settings in the Configuration Manager, refer to the Configuration Manager online help.
 - Configure Analytics Database Information
 - Analytics DB Vendor
 - Analytics DB Server Name
 - Analytics DB Port
 - Analytics DB Name (for Microsoft SQL Server) or Analytics DB SID (for Oracle)
 - Analytics DB Username
 - Analytics DB Password

- Configure WLP Server Information

- WLP Server URL

Example: `http://WebLogicPortal_Hostname:port/WLPAnalyticsSync`

WLPAnalyticsSync is defined in the `weblogic-application.xml` of the WLP application; the default is `EARnameAnalyticsSync`.

Use the fully qualified domain hostname

3. On the final page, click **Finish**.

3.6 Registering Core and Portal Events

You must register core and portal events if you want Oracle WebCenter Analytics to report on events that occur in the portal. To register core and portal events, run the following from the command line on the Oracle WebCenter Analytics host machine:

- Windows:
 1. `.. PTANALYTICS_HOME\bin\AnalyticsLoadEvents.bat`
`\settings\config\analytics-core-event-def.xml`
 2. `.. PTANALYTICS_HOME\bin\AnalyticsLoadEvents.bat`
`\settings\config\analytics-wlp-event-def.xml`
- UNIX/Linux:
 1. `.. PTANALYTICS_HOME/bin/AnalyticsLoadEvents.sh`
`/settings/config/analytics-core-event-def.xml`
 2. `.. PTANALYTICS_HOME/bin/AnalyticsLoadEvents.sh`
`/settings/config/analytics-wlp-event-def.xml`

3.7 Updating Portal Elements

You must update portal elements, such as desktops, pages, and portlets. To register core and portal events, run the following scripts from the command line on the Oracle WebCenter Analytics host machine:

- Windows: `..PTANALYTICS_HOME\bin\AnalyticsRunJobs.bat`
- UNIX/Linux: `..PTANALYTICS_HOME/bin/AnalyticsRunJobs.sh`

3.8 Installing the Analytics Collector Component and Clustering the BEA AL Analytics Collector Service

This section includes the following topics:

- [Section 3.8.1, "Installing the Analytics Collector Component"](#)
- [Section 3.8.2, "Clustering the BEA AL Analytics Collector Service"](#)

3.8.1 Installing the Analytics Collector Component

This section describes how to install the Analytics Collector component, which includes the BEA AL Analytics Collector service. The instructions are the same for installing on a Windows, UNIX, or Linux host, with slight exceptions as noted.

Note: If you want to cluster the BEA AL Analytics Collector service, we recommend that you install each node in the cluster on a separate machine (one installation of the Analytics Collector component is one instance of the BEA AL Analytics Collector service. One instance of the BEA AL Analytics Collector service operates as one node in the cluster). For details on clustering the BEA AL Analytics Collector service, see [Section 3.8.2, "Clustering the BEA AL Analytics Collector Service."](#)

To install the Analytics Collector component:

1. Log in to the remote server host computer as the local administrator (on Windows) or a user with directory write privileges (on UNIX or Linux).
2. Copy the installer to the disk location from where you plan to launch it. The installer file is one of the following:
 - Windows: WebCenterAnalytics_WLP_10.3.0.1.0.exe
 - UNIX/Linux: WebCenterAnalytics_WLP_10.3.0.1.0
3. Close all unnecessary applications.
4. Execute the installer file.
5. Complete the installation wizard pages as described in the following table and according to the settings you planned when you completed the Analytics Collector Component Installation Worksheet, which is included in the Oracle WebCenter Analytics Configuration Worksheets document.

Table 3–2 Installation Wizard Pages - Analytics Collector Component

Wizard Page	Description
Choose Components	Choose Analytics Collector .
Analytics Collector - Installation Directory	<p>The default is:</p> <ul style="list-style-type: none"> ■ <code>install_dir\ptcollector</code> (Windows) ■ <code>install_dir/ptcollector</code> (UNIX and Linux) <p>Note: By default, <code>install_dir</code> is C:\bea\alui (Windows) and /opt/bea/alui (UNIX/Linux)</p>
Configuration Manager - Port and Password	<p>This page is displayed if you chose to update Oracle WebCenter Configuration Manager's password and port information.</p> <p>Type the port number on which you want Oracle WebCenter Configuration Manager to service requests.</p> <p>By default, the port number is 12345. After running the installer, you will be able to access Oracle WebCenter Configuration Manager by using the following URL: <code>https://localhost:port_number</code>.</p> <p>Also type and confirm the Administrator password that you will use to log into Oracle WebCenter Configuration Manager. The password is case-sensitive.</p>
Pre-Installation Summary	<p>Click Install to begin the installation. The installer copies BEA AL Analytics Collector service files to the installation directory.</p> <p>Note: The installer writes a log file to the directory where it is installed (for example: C:\bea\alui\installlogs). If you encounter problems during installation, examine the error messages in the log file.</p>

Table 3–2 (Cont.) Installation Wizard Pages - Analytics Collector Component

Wizard Page	Description
Launch Configuration Manager	<p>Click the link to access Oracle WebCenter Configuration Manager. The default username for logging into Oracle WebCenter Configuration Manager is <code>administrator</code>. Use the password that you typed into the Configuration Manager - Port and Password installation wizard page.</p> <p>In Oracle WebCenter Configuration Manager:</p> <ol style="list-style-type: none"> 1. Click the + symbol next to the Analytics Collector application name to view its components. 2. Configure all settings for all of the s. <p>Online Help for these settings is available in the Oracle WebCenter Configuration Manager application.</p> <p>Use the database and connectivity settings that you provisioned when you completed the Oracle WebCenter Analytics Configuration Worksheets document.</p> <p>Note: If this computer includes an installation of Oracle WebCenter Analytics Console, the settings you configured for Oracle WebCenter Analytics Console apply to this installation of Analytics Collector. Changes you make to the configuration settings for Oracle WebCenter Analytics Console affect the configuration settings for an instance of Analytics Collector installed on the same computer, and vice versa.</p>
Application Settings Confirmation	<p>Select Yes if you have completed configuration of the Oracle WebCenter Analytics Collector settings.</p> <p>Select No, configure later to complete the installer without configuring the Oracle WebCenter Analytics Collector settings. You must run Oracle WebCenter Configuration Manager and configure Oracle WebCenter Analytics Collector settings before starting Oracle WebCenter Analytics.</p>
Install Complete	Click Done to complete the installation.

3.8.2 Clustering the BEA AL Analytics Collector Service

(Optional) A Collector service cluster consists of multiple BEA AL Analytics Collector service nodes running simultaneously and working together to provide increased scalability and reliability. One instance of the BEA AL Analytics Collector service operates as one node in the cluster.

Note: You do not need to perform these steps if you do not want to cluster the BEA AL Analytics Collector service.

To learn how clustering works, see [Section 3.8.2.1, "How a Cluster Works."](#)

To cluster the BEA AL Analytics Collector service:

1. Configure Oracle WebLogic Portal to send events to the Oracle WebCenter Analytics Collector cluster. For details, see [Section 3.8.2.2, "Configuring Oracle WebLogic Portal to Send Events to the Cluster."](#)
2. Configure the nodes in the BEA AL Analytics Collector service cluster. For details, see [Section 3.8.2.3, "Configuring Nodes in a Cluster."](#)

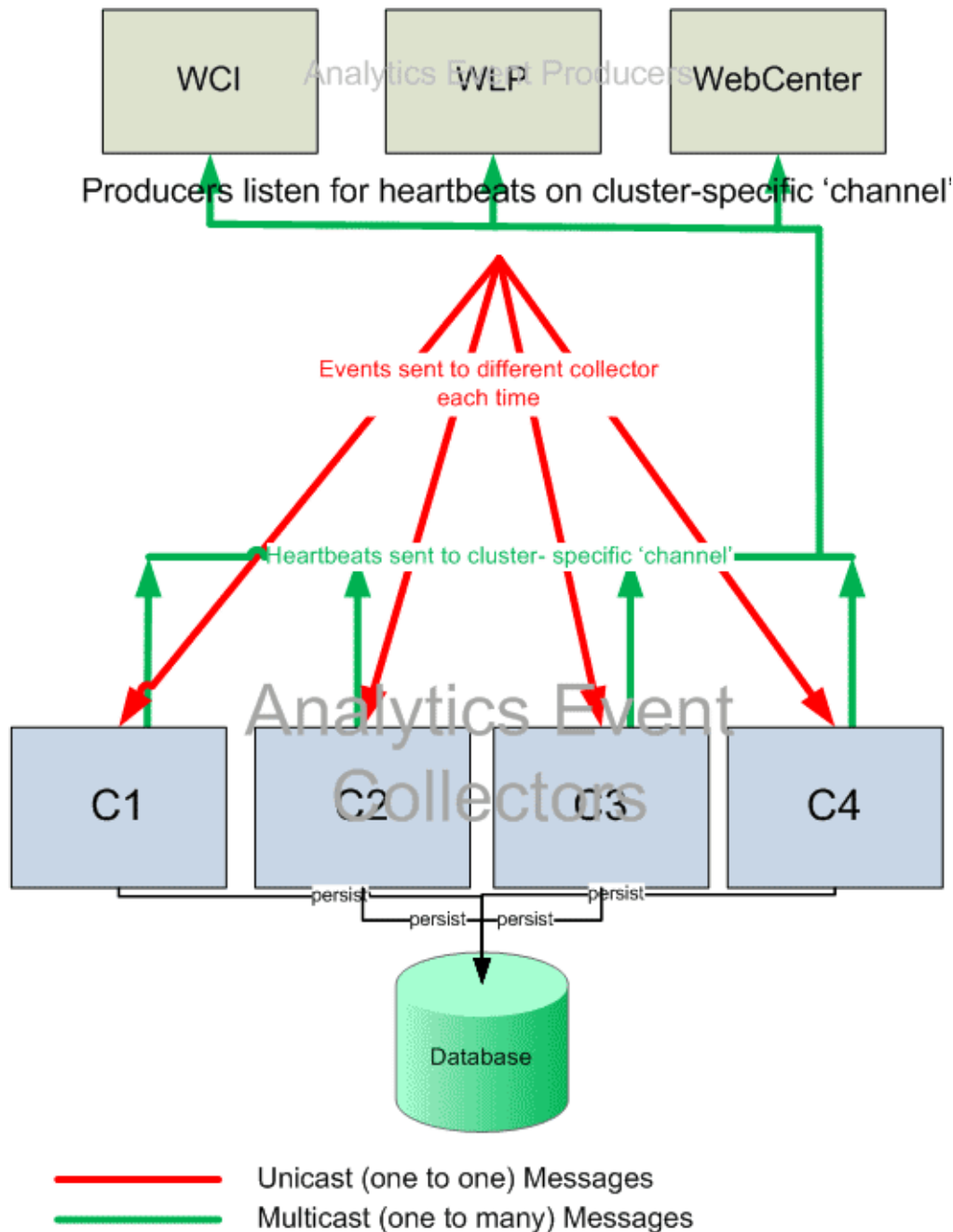
3.8.2.1 How a Cluster Works

This section describes how a BEA AL Analytics Collector service cluster works.

In an unclustered environment the producer is configured with the location of the collector, and all events are transmitted to that location. If the collector is unavailable, the producer will not be aware of this and will continue to transmit events regardless.

In this configuration, multiple collectors and producers can still be set up in parallel, one collector per producer, all persisting to the same database.

Figure 3–1 shows an example of a clustered Oracle WebCenter Analytics environment. In a clustered environment producers and collectors are configured with a cluster-specific channel name. Each collector periodically broadcasts a *heartbeat* with its location to the cluster-specific channel. The producer listens to the channel for these collector heartbeats, and when it hears one, adds the collector to its list of known collectors. When the producer needs to send an event it randomly selects a collector from its list and sends the event to that collector. If a collector stops (either being stopped purposefully or failing) it stops broadcasting a heartbeat. When the producer stops hearing the heartbeat it removes the collector from its list and stops sending events to that collector. If the producer does not hear any collector heartbeats it does not send any events.

Figure 3–1 Clustered Oracle WebCenter Analytics Environment

This graphic shows the architecture of a clustered Oracle WebCenter Analytics environment. At the bottom are the Oracle WebCenter Analytics event collectors, which send out heartbeats on a cluster-specific channel. At the top are the Oracle WebCenter Analytics event producers: Oracle WebCenter Interaction, Oracle WebLogic Portal, and Oracle WebCenter. The producers listen for the heartbeats on that same cluster-specific channel and then send any events to one of the available collectors.

3.8.2.2 Configuring Oracle WebLogic Portal to Send Events to the Cluster

To configure Oracle WebLogic Portal to send events to the BEA AL Analytics Collector service cluster:

1. Access Oracle WebCenter Configuration Manager on the machine on which Oracle WebLogic Portal is installed.
2. Click the + symbol next to the **Portal Service** application name to view its components.
3. Configure the following settings in the Analytics Communication component:
 - Confirm that the **Enabled** check box is selected in the Enable area.
 - Click **Enabled** in the Use Clustering area.
 - Configure the following settings in the Cluster Communication area: **Cluster name**, **Cluster node timeout period**, **Broadcast listening port**.

Online help for these settings is available in the Oracle WebCenter Configuration Manager application.

3.8.2.3 Configuring Nodes in a Cluster

This section discusses how to configure nodes in a BEA AL Analytics Collector service cluster.

If you are configuring nodes of the BEA AL Analytics Collector service to use broadcast mode, IP broadcast packets are not automatically forwarded from one subnet to another. For this reason, you should configure each instance of the BEA AL Analytics Collector service to be in the same subnet as the application from which it receives events. This configuration ensures that the event-generating applications can successfully receive broadcast messages from the Collector service cluster. If you use virtualization software, we recommend that you configure nodes of the BEA AL Analytics Collector service to use broadcast mode.

Note:

- Perform this procedure for each node in the cluster.
 - If this computer includes an installation of Oracle WebCenter Analytics Console, the settings you configured for Oracle WebCenter Analytics Console apply to this installation of Analytics Collector. Changes you make to the configuration settings for Oracle WebCenter Analytics Console affect the configuration settings for an instance of Analytics Collector installed on the same computer, and vice versa.
-
-

To configure a node in a BEA AL Analytics Collector service cluster:

1. Ensure that you have installed the BEA AL Analytics Collector service on each machine that will host a node in the cluster.

Note: We recommend that each instance of the BEA AL Analytics Collector service exist on a separate machine.

For installation instructions, see [Section 3.8.1, "Installing the Analytics Collector Component."](#)

2. Access Oracle WebCenter Configuration Manager on the BEA AL Analytics Collector service host.
3. Click the + symbol next to the **Analytics Collector** application name to view its components.
4. Configure the settings in the Analytics Database component.
5. Configure the settings in the Clustering component.

Note: The value for the **Cluster name** field should match the value set for the Cluster name field in the Portal Service application, Analytics Communication component of Oracle WebCenter Configuration Manager on the portal host. You configured this setting when you performed the procedure [Section 3.8.2.2, "Configuring Oracle WebLogic Portal to Send Events to the Cluster."](#)

6. Configure the settings in the Logging component.
Online help for these settings is available in the Oracle WebCenter Configuration Manager application.

3.9 Starting the BEA AL Analytics and BEA AL Analytics Collector Services

This section provides information on starting the BEA AL Analytics and BEA AL Analytics Collector services. Perform the procedure that is appropriate to your operating system.

3.9.1 Starting the BEA AL Analytics and BEA AL Analytics Collector Services on Windows

After you have installed all Analytics components:

- Ensure that the BEA AL Analytics service has been started. From Windows NT Services, click Administrative Tools > Services; if the BEA AL Analytics service has not started, right-click it and choose **Start**.
- Ensure that the BEA AL Analytics Collector service has been started. From Windows NT Services, click Administrative Tools > Services; if the Collector service has not started, right-click it and choose **Start**.

You can also start and stop these services using Oracle WebCenter Configuration Manager. Log in to Oracle WebCenter Configuration Manager using the user name Administrator and the password you specified during installation. Follow the instructions in Oracle WebCenter Configuration Manager to start the Analytics Console and Analytics Collector applications.

3.9.2 Starting the BEA AL Analytics and BEA AL Analytics Collector Services on UNIX and Linux

After you have installed all Analytics components:

- Ensure the BEA AL Analytics service has been started: `install_dir/ptanalytics/10.3.0.1/bin/analyticsd.sh start`

- Ensure the BEA AL Analytics Collector service has been started: *install_dir/ptcollector/10.3.0.1/bin/collectord.sh start*

This chapter includes information on how to upgrade Oracle WebCenter Analytics. It includes the following sections:

- [Section 4.1, "Upgrade Paths"](#)
- [Section 4.2, "Upgrading from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1"](#)

4.1 Upgrade Paths

The following table summarizes the supported database upgrade paths for Oracle WebCenter Analytics.

Table 4–1 Upgrade Paths

Upgrade Path	Upgrade References
AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1	Follow the procedures in Section 4.2, "Upgrading from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1."

4.2 Upgrading from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1

To upgrade from AquaLogic Analytics 2.1 to Oracle WebCenter Analytics 10.3.0.1:

1. Delete the \Analytics folder beneath the *install_dir*\common\container\tomcat\5.0.28\work directory.
2. Back up the installation directory of the previously-installed version of the Analytics Services component, using the tool of your choice.

Note: In AquaLogic Analytics 2.1, the *Analytics Services* component installation consisted of the BEA AL Analytics service, the core Analytics application files, and the BEA AL Analytics Collector service. The default installation directory for Analytics Services was *install_dir*\ptanalytics (Windows) and *install_dir*/ptanalytics (UNIX and Linux).

In 10.3.0.1, installing the Analytics Console component installs only the BEA AL Analytics service and the core Oracle WebCenter Analytics application files. Installing the Analytics Collector component installs only the BEA AL Analytics Collector service.

3. **(Linux/UNIX only)** Grant user and group access rights to Oracle Inventory directories. For details, see [Section 3.1, "Granting User and Group Access Rights to Oracle Inventory Directories."](#)
4. Install the Analytics Console component. For details, see [Section 3.2, "Installing the Analytics Console Component."](#)

If you are choosing the same location as the existing software, accept the default installation directory location when prompted.

Note: When performing the installation process, ensure that the Oracle WebCenter Analytics database settings are correct in Oracle WebCenter Configuration Manager. However, do not configure any other Analytics Console settings in Oracle Configuration Manager at this time.

5. Register portal events. For details, see [Section 3.6, "Registering Core and Portal Events."](#)
6. Install the Analytics Collector component and configure Analytics Collector settings in Oracle WebCenter Configuration Manager. For details, see [Section 3.8.1, "Installing the Analytics Collector Component."](#)
7. **(Optional)** If desired, cluster the BEA AL Analytics Collector service. For details, see [Section 3.8.2, "Clustering the BEA AL Analytics Collector Service."](#)
8. Back up the Oracle WebCenter Analytics database using the tool of your choice.
9. Upgrade the Oracle WebCenter Analytics database by running the upgrade_2.1_to_10.3.0.1.sql script:
 - Windows: *install_dir\ptanalytics\10.3.0.1\sql\database\upgrade_2.1_to_10.3.0.1.sql*
 - UNIX/Linux: *install_dir/ptanalytics/10.3.0.1/sql/database/upgrade_2.1_to_10.3.0.1.sql*
10. On the machine on which you installed the Analytics Console component:
 - a. Access Oracle WebCenter Configuration Manager.
 - b. Click the + symbol next to the **Analytics Console** application name to view its components.
 - c. Configure all Analytics Console settings.
11. Run the Analytics25Update.bat file:
 - Windows: *install_dir\ptanalytics\10.3.0.1\bin\Analytics25Update.bat*
 - UNIX/Linux: *install_dir/ptanalytics/10.3.0.1/bin/Analytics25Update.sh*
12. **(Oracle database only)** Run your database's analysis tool on both the Oracle WebCenter Analytics and portal databases to increase the efficiency of the databases.

Troubleshooting

This appendix provides information on Analytics' installation logs and common troubleshooting information. For details on troubleshooting Oracle WebCenter Analytics during runtime, see *Oracle Fusion Middleware Administrator's Guide for Oracle WebCenter Analytics (for Oracle WebLogic Portal)*.

A.1 Overview of Installation and Configuration Logs

The following table provides the descriptions and locations of logs that you can use to troubleshoot the installation and configuration of Oracle WebCenter Analytics. Individual log files are generated for each day's activity.

Table A-1 Logs Used to Troubleshoot the Installation and Configuration of Oracle WebCenter Analytics

Log	Description	Location and Platform
WebCenter_Analytics_InstallLog.log	Provides activity and error details for the installation of Oracle WebCenter Analytics.	<ul style="list-style-type: none">Windows: <i>install_dir</i>\installlogsUNIX/Linux: <i>install_dir</i>/installlogs
ptanalytics_deploy.log	Provides additional activity and error details for the installation of Oracle WebCenter Analytics.	<ul style="list-style-type: none">Windows: <i>install_dir</i>\installlogsUNIX/Linux: <i>install_dir</i>/installlogs

A.2 Common Troubleshooting Information

This section provides troubleshooting information for Oracle WebCenter Analytics.

- If you cannot access Analytics Console or Analytics Administration Console from the Oracle WebLogic Portal administration console, it is possible that the Oracle WebLogic Portal configuration file for Oracle WebCenter Analytics has an error. For information on the configuration file, refer to [Section 3.3, "Integrating Oracle WebCenter Analytics with Oracle WebLogic Portal."](#)
- If Analytics Console does not show all generated events, it is possible that the Analytics Collector is not running or is having some problem. Verify that the service is running, and review its log files for any issues.

Uninstalling Oracle WebCenter Analytics

This appendix discusses how to uninstall Oracle WebCenter Analytics.

B.1 Uninstalling Oracle WebCenter Analytics on Windows

To uninstall Oracle WebCenter Analytics on Windows:

1. Stop the following services:
 - BEA AL Analytics service
 - BEA AL Analytics Collector service
2. Use the Windows Control Panel Add/Remove Program utility to launch the Oracle WebCenter Analytics uninstall wizard.

Note: We recommend that you do not uninstall Logging Utilities if other components or products that use Logging Utilities are installed on the same server as Oracle WebCenter Analytics.

3. Follow the directions in the Oracle WebCenter Analytics uninstall wizard to uninstall Oracle WebCenter Analytics.

B.2 Uninstalling Oracle WebCenter Analytics on UNIX/Linux

To uninstall Oracle WebCenter Analytics on UNIX and Linux, launch the uninstaller for Oracle WebCenter Analytics 10.3.0.1. by running:
`/opt/bea/alui/uninstall/ptanalytics/10.3.0.1/Uninstall WebCenter Analytics`

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