

HP OpenView Configuration Management Enterprise Manager

for Windows

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User Guide

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1 Introduction

Introduction

The HP OpenView Configuration Management Enterprise Manager (CM Enterprise Manager) is a web-based, agent management tool that allows you to quickly and easily manage software, patches, and inventory for devices in your environment.

This guide introduces CM Enterprise Manager, shows you how to configure and install the product components, and provides detailed information and instructions for using the CM Enterprise Manager.

Audience

This guide is intended for administrators who will be installing, configuring, and using the CM Enterprise Manager.

Chapters Summary

This book contains the following chapters in addition to this one:

- Chapter 2, [Installing the CM Enterprise Manager](#) includes information on the requirements and installation instructions.
- Chapter 3, [Configuring the CM Enterprise Manager](#) describes how to configure the CM Enterprise Manager for use in your enterprise.
- Chapter 4, [Enterprise Management](#) shows you how to use the CM Enterprise Manager to manage policy on your devices.

Related Documents

The following guides describe products related to the CM Enterprise Manager.

HP OpenView Configuration Management Configuration Server User Guide

HP OpenView Configuration Management Portal Installation and Configuration Guide

HP OpenView Configuration Management Reporting Server Installation and Configuration Guide

2 Installing the CM Enterprise Manager

At the end of this chapter, you will:

- Be familiar with the system requirements for the CM Enterprise Manager.
- Know how to install the CM Enterprise Manager.
- Know how to remove the CM Enterprise Manager.

System Requirements

Before installing the CM Enterprise Manager, you will need to have the following installed in your enterprise. If the following are already installed, you will need to identify which ones will be used by the CM Enterprise Manager.

- CM Configuration Server
- CM Reporting Server
- CM Portal



The CM Reporting Server is not required for using the CM Enterprise Manager. However, if you do not have one identified or installed in your enterprise, you will not be able to access any of the CM Reporting Server features in your CM Enterprise Manager.

The device on which the CM Enterprise Manager will be installed requires one of the following browsers:

- Microsoft Internet Explorer 6.x or above, with patches applied
- Mozilla Firefox 2

Installation and execution of CM Enterprise Manager is not supported on servers that are configured to perform the role of Windows Terminal Server.

Platform Support

For information about the platforms that are supported in this release, see the accompanying release notes.

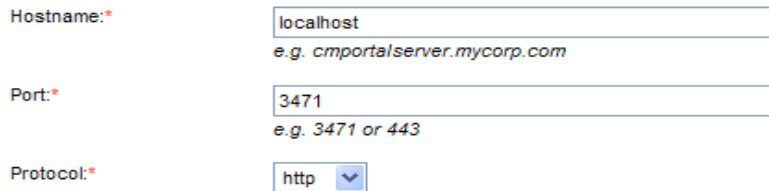
Installation Tasks

You will need to complete the following tasks to use all the features of the CM Enterprise Manager. Be sure to have the IP address, hostname, and port for your CM Configuration Server, CM Portal, and CM Reporting Server.

- If the CM Enterprise Manager is installed behind a firewall, and you will be accessing it from outside the firewall, make sure that the firewall allows incoming network connections on port 8080. If not, you will not be able to access the CM Enterprise Manager from outside of the firewall. If you need SSL (secure) access, then the firewall must also be configured to allow incoming network connections on port 8443.

To install the CM Enterprise Manger and configure CM Portal Settings

- 1 From the installation media, navigate to `ec\win32` directory.
- 2 Double-click the installation executable.
- 3 The installation process will check for adequate disk space and other requirements.
- 4 Follow the prompts and provide the appropriate answers.
- 5 After installation, you will be prompted for settings for your CM Portal.

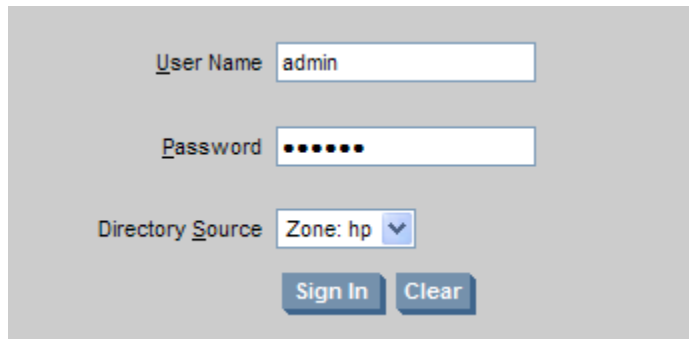


Hostname:*
e.g. cmportalserver.mycorp.com

Port:*
e.g. 3471 or 443

Protocol:*

- 6 Type or select the correct settings, and click **Save**. The settings are then validated. If validation fails, an error will be displayed. If validation is successful, click **Close** to continue. You will be automatically redirected to the start page.

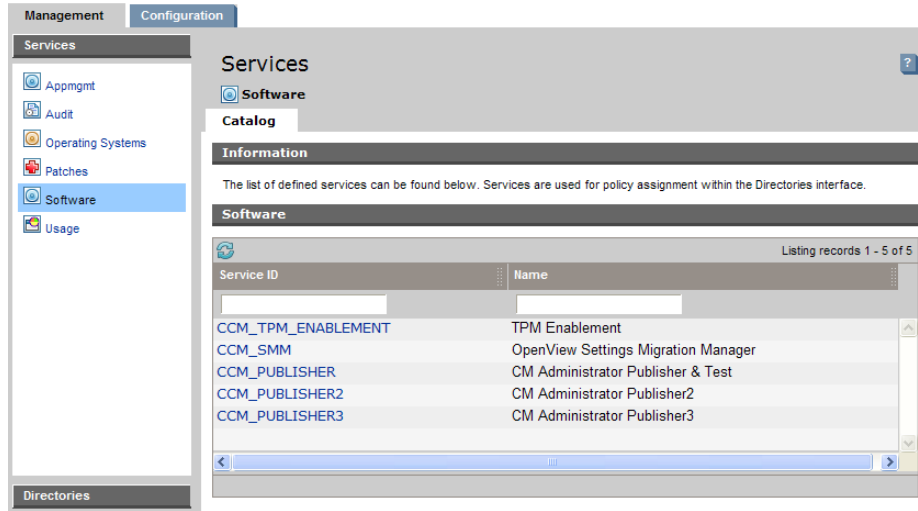


User Name

Password

Directory Source

- 7 Sign in with a user name of admin and a password of secret. These are the defaults. For now, the directory source should be the zone you created when you install the CM Portal.
- 8 Click **Sign In**.



The main screen of the CM Enterprise Manager is displayed and you are successfully signed in.

To remove the CM Enterprise Manager

- From the **Add or Remove Programs** Control Panel applet, select the HP CM Enterprise Manager. Use the regular removal procedure for your operating system.

3 Configuring the CM Enterprise Manager

At the end of this chapter, you will:

- Be able to create internal CM Enterprise Manager users.
- Know how to create directory service connections.
- Be able to connect to your CM Reporting Server.
- Know how to customize the CM Enterprise Manager.

Navigating the CM Enterprise Manager

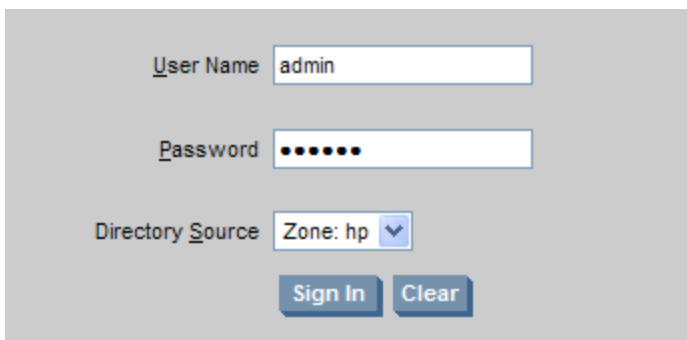
The CM Enterprise Manager allows you to define the desired state for your enterprise by setting configuration policies in your enterprise directory services. In this section, you will learn how to sign in to the CM Enterprise Manager, and the purpose of each tab.

Signing in to the CM Enterprise Manager

Before you can configure the CM Enterprise Manager, you must sign in.

To sign in to the CM Enterprise Manager

- 1 From your web browser, go to **http://enterprisemanager_hostname:8080/em** where *enterprisemanager_hostname* is the name of the device where the Enterprise Manager has been installed.

A screenshot of the CM Enterprise Manager login interface. It features a light gray background with a white form area. The form contains three input fields: 'User Name' with the text 'admin', 'Password' with masked characters (dots), and 'Directory Source' with a dropdown menu showing 'Zone: hp'. Below these fields are two buttons: 'Sign In' and 'Clear'.

To sign in to the CM Enterprise Manager using secure (SSL) communications, go to **https://enterprisemanager_hostname:8443/em**.

A default truststore containing a temporary certificate is included in the CM Enterprise Manager. If you wish to use SSL to access the CM Enterprise Manager, you will be prompted to accept or reject this default certificate. Acceptance of this certificate will allow you to use the CM Enterprise Manager; however, you should replace this temporary truststore with one containing a valid certificate for your server. For more information about creating a permanent truststore, see the *HP OpenView Configuration Management SSL Implementation Guide*.

- 2 Sign in using a user name of admin and a password of secret. These are the defaults. Until you have completed other configurations, the directory source should be the zone you created when you install the CM Portal.
- 3 Click **Sign In**.



If the CM Enterprise Manager is installed behind a firewall, and you will be accessing the CM Enterprise Manager from outside the firewall, make sure that the firewall allows incoming network connections on port 8080. If not, you will not be able to access the CM Enterprise Manager from outside of the firewall. If you need SSL (secure) access, then the firewall must also be configured to allow incoming network connections on port 8443.

In the upper right hand corner of the CM Enterprise Manager, you will see statistics on your current session.

To sign out of the CM Enterprise Manager

- In the upper right corner of the CM Enterprise Manager page, click **Sign Out**.

CM Enterprise Manager Tabs

After you are signed in to the CM Enterprise Manager, you will see three tabs.

- **Management:** Use this tab to view the devices in your environment. From this tab, you will access the policy wizard. See Chapter 4. [Enterprise Management](#) for more information
- **Reporting:** Use this tab to see reports about your environment. These reports are provided by the CM Reporting Server. To use this tab, you must enable the feature by using the procedure: [To integrate the CM Reporting Server](#) on page 30. See the *HP OpenView Configuration Management Reporting Server Installation and Configuration Guide* for more information.
- **Configuration:** Use this tab to configure the CM Enterprise Manager, including directory services and user accounts.

Configuration Tasks

To configure the CM Enterprise Manager completely, you will need to complete the following tasks, at a minimum.

- Decide on which directory services you will use.
- Decide which directory services you will use for administrator authentication to the console.
- Decide which directory services will be used for assigning policy.

You may also want to do the following:

- Create CM Enterprise Manager users.
- Integrate with the CM Reporting Server.

Creating CM Enterprise Manager Users

Use the Configuration tab to configure the internal users who have access to this CM Enterprise Manager. When you create a user from the CM Enterprise Manager, you are creating a user for the CM Portal who has administrative access to the CM internal data store, but may not have access to the directory source depending on the directory source's configuration. If you do not want to use or do not have LDAP servers to use for authentication, then you will need to create a CM Enterprise Manager user.

Figure 1 User list



Legend

- a** Filter bar
- b** Select all users
- c** Refresh User list
- d** Create User
- e** Delete User

To create a CM Enterprise Manager user

- 1 From the Configuration tab, click the **Users** icon in left pane.
- 2 From the Users section, click the **Create User** button. The **User Creation Wizard** starts.

User ID:*	<input type="text" value="alee"/> <i>e.g. jdoe (Note: cannot contain spaces)</i>
Display Name:*	<input type="text" value="alee"/> <i>e.g. John Doe</i>
Description:	<input type="text" value="Administrator"/> <i>e.g. Sales Office Administrator</i>
Password:*	<input type="password" value="....."/>
Confirm Password:*	<input type="password" value="....."/>


- 3 You have the following configuration options. All parameters marked with an asterisk (*) are required.
 - Create a User ID that does not contain spaces.
 - Create a Display Name.
 - Type a meaningful Description for the user.
 - Use Password to specify the password for the user. Retype the password in Confirm Password.
- 4 Click **Next**.
- 5 Review the Summary screen. If all properties are correct, click **Commit**.
- 6 Click **Close** to acknowledge the dialog.

If the user is already created, you may want to view its properties or change the password.

To view user details

- 1 From the Configuration tab, click the **Users** icon in the left pane.
- 2 Click the name of the user that you want to view details or change the password for.

User Details


 Portal Administrator (admin) on Zone: hp

Summary **Properties**

Information

Summary information about this user can be found below. To modify the properties of this user, select the Properties tab.

Summary

Directory Source:  Zone: hp

Display Name: Portal Administrator

Description: This user has complete access to the system.

Creator: cn=hp,cn=radia

Created: 2007-02-02T21:11:40Z

Modified: 2007-02-02T21:11:40Z

- 3 Click the **Summary** tab to see basic information about the user. You cannot modify these properties.
- 4 Click the **Properties** tab to see the display name and description of the user. You can modify these properties.
- 5 Click **Save** after making modifications.
- 6 Click **Close** to acknowledge the dialog.

To change a password

- 1 From the Configuration tab, click the **Users** icon.
- 2 Click the name of the user that you want to change the password for.
- 3 Click the **Properties** tab to see the display name and Description of the user.
- 4 Click **Change Password**.
- 5 Type in the new password.



If you are changing the password for the currently signed in user, this session will be invalidated, and you will need to sign back in.

6 Click **Commit**.

7 Click **Close** to acknowledge the dialog.

The password has been changed.

Configuring Directory Services

Before you can assign Services to Directory Service objects, you need to configure connections to your directory services. There are three types of directory services that you can connect to:

- CM Configuration Server (ds-rcs)
- Lightweight Directory Authentication Protocol (LDAP) (ds-ldap)
- LDAP with Secure Sockets Layer (SSL) support (ds-ldaps)

HP recommends creating one CM Configuration Server connection (ds-rcs), and then any required LDAP directory services, either ds-ldap or ds-ldaps.

Each directory service may be used for any combination of the following:

- Authorization
- Reporting
- Policy Entitlement

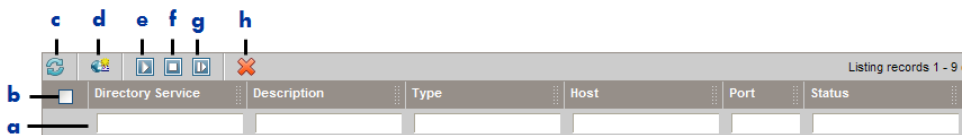
Suppose you have two directories. One specific for policy, but all your user accounts are in a different directory service, which you want to authenticate against. Then, you can create two directory service connections:

- Create one in which **Used for Authorization** is checked, **Used for Policy** is not checked, and **Use Service Account** is not checked.
- Create a second in which **Used for Authorization** is unchecked, **Used for Policy** is checked, and **Use Service Account** is checked.

This configuration will allow you to sign in using the first directory service, and configure policy on the second directory service.

Note that if a directory source is configured to Use for Authorization, but **Use Service Account** is unchecked then the local user will not have access. If **Use Service Account** is checked, then the user will have access.

Figure 2 Directory Services List



Legend

- a** Filter bar
- b** Select all directory services
- c** Refresh directory services list
- d** Create new directory service
- e** Start directory service
- f** Stop directory service
- g** Restart directory service
- h** Delete directory service

To configure the CM Configuration Server Directory Service

- 1 From the Configuration tab, click the **Directory Services** icon on the left pane.
- 2 From the Directory Services detail section, click the **Create Directory Services** button. The **Directory Service Connection Wizard** starts.

Display Name:*

Description:

Type:

- 3 Type in a Display Name and Description. From the Type drop-down, select **ds-racs**.
- 4 Click **Next**.

Connection Settings

Startup:	auto
Host:*	localhost
Port:*	3464
Service Account ID:*	RAD_MAST
Password:	
Confirm Password:	
Timeout:*	0
# of Connection Attempts:*	5
Delay between Connects:*	60

- 5 Under Connection Settings, you have the following options.
 - For Startup, select auto to automatically start this directory service when the CM Portal starts.
 - Host is the hostname or IP address of the CM Configuration Server.
 - Port is the port of the CM Configuration Server.
 - Use Service Account ID, to set which account you will use to sign in to the CM Configuration Server. The Service Account is used for both read and write operations. It should have full read and write access to this directory source.
 - Use Password to specify the password for the Service Account ID. Retype the password in Confirm Password.
 - Use Timeout to specify in seconds the timeout for your connection to your CM Configuration Server. Keep this set to 0 unless directed by HP Support.
 - Use # of Connection Attempts to specify how many times to attempt connection to your CM Configuration Server before failing.
 - Specify the amount of time in seconds to delay between connection attempts in Delay between Connects.
- 6 Click **Next**.
- 7 Review the Summary screen. If all properties are correct, click **Commit**.
- 8 Click **Close** to acknowledge the dialog.

The directory source is added to the Directory Services list.

To configure LDAP Directory Services (without SSL)

- 1 From the Configuration tab, click the **Directory Services** icon.
- 2 From the Directory Services detail section, click the **Create Directory Services** button. The **Directory Service Connection Wizard** starts.

Display Name:*	<input type="text" value="Primary LDAP Server"/>
Description:	<input type="text" value="Active Directory Server"/>
Type:	<input type="text" value="ds-ldap"/> ▼

- 3 Type in a Display Name and Description. From the Type drop-down, select **ds-ldap**.
- 4 Click **Next**.

Connection Settings

Startup:	<input type="text" value="auto"/> ▼
Host:*	<input type="text" value="192.168.119.119"/>
Port:*	<input type="text" value="389"/>
Base DN:*	<input type="text" value="dc=ad-db,dc=asdfs,dc=com"/> ?
Service Account ID:	<input type="text" value="administrator@ad-db.asdfs.hp.com"/> ?
Password:	<input type="password" value="....."/>
Confirm Password:	<input type="password" value="....."/>

- 5 You will see the information you typed in the previous step, under General Settings. For Connection Settings, you have the following options.
 - For Startup, select auto to automatically start this directory service, when the CM Portal starts.
 - Host is the hostname or IP address of the LDAP Server.
 - Port is the LDAP Port.
 - Base DN is used as the root DN when browsing the directory through the CM Enterprise Manager.
 - Use Service Account ID, to set which account you will use to sign in to the directory services server. The Service Account is used for both read and write operations. It must have full read and write access to this directory source.

- Use Password to specify the password for the Service Account ID. Retype the password in Confirm Password.

UI Settings	
Use for Reporting:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Use for Policy:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Use for Authorization:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Group DN for Authorized Users:*	<input type="text" value="ou=asdfsdfs Authorized User, ou=groups, dc="/> <input type="button" value="?"/>
Use Service Account:	<input checked="" type="checkbox"/> <input type="checkbox"/>

6 For UI Settings, you have the following options.

- **Use for Reporting:** When enabled, this directory service becomes enabled in the Reporting tab of the CM Enterprise Manager as a filter source. CM Reporting Server must be configured to use the CM Portal as its directory source for this feature to work.
- **Use for Policy:** When enabled, this directory service can be used in the CM Enterprise Manager for policy management.
- **Use for Authorization:** When enabled, this directory service becomes enabled as a signin option on the main CM Enterprise Manager screen to allow user authentication based on your existing directory users. The following two parameters will become available.
 - **Group DN for Authorized Users:** The Group DN is used as the source for authorized users into the CM Enterprise Manager. Any user that is a member of this group will be enabled to sign in to the CM Enterprise Manager.
 - **Use Service Account:** When enabled, all read and write requests for this directory service will use the **Service Account ID** specified in the **Connection Settings**. When disabled, all read and write requests for this directory service, will use the signed on user's credentials.

Log Settings	
DS Log Level:*	<input type="text" value="0"/>

7 For Log Settings, you only need to set the DS Log Level.

8 Click **Next**.

9 Review the Summary screen. If all properties are correct, click **Commit**.

10 Click **Close** to acknowledge the dialog.

If you are using SSL on your LDAP server, then you should use the ds-ldaps type.

To configure LDAP Directory Services with SSL

- 1 From the Configuration tab, click the **Directory Services** icon on the left pane.
- 2 From the Directory Services detail section, click the **Create Directory Services** button. The **Directory Service Connection Wizard** starts.

Display Name:*	Primary LDAP Server with SSL
Description:	Active Directory Server with SSL
Type:	ds-ldaps ▼

- 3 Type in a Display Name and Description. From the Type drop-down, select **ds-ldaps**.
- 4 Click **Next**.
- 5 You will see the information you typed in the previous step, under General Settings.

Connection Settings	
Startup:	auto ▼
Host:*	192.168.119.119
Port:*	636
Base DN:*	dc=ad-db,dc=asdfoods,dc=com ?
Service Account ID:	administrator@ad-db.asdfoods.com ?
Password:
Confirm Password:
CA Certificate Directory:	C:\Program Files\Hewlett-Packard\CMVMana ?
CA Certificate File:	entPortal\etc\CA\Certificates\ldapservice.pem ?

- 6 For Connection Settings, you have the following options.
 - For Startup, select auto to automatically start this directory service, when the CMP Portal starts.
 - Host is the hostname or IP address of the LDAP Server.
 - Port is the LDAP port.

- Base DN is used as the root DN when browsing the directory through the CM Enterprise Manager.
- Use Service Account ID, to set which account you will use to sign on to the directory services server. The Service Account is used for both read and write operations. It must have full read and write access to this directory source.
- Use Password to specify the password for the Service Account ID. Retype the password in Confirm Password.
- Use CA Certificate Directory to specify the directory of the SSL certificate. The path is relative to the server where the CM Portal is located, for example, C:\Program Files\Hewlett-Packard\CM\ManagementPortal\etc\CACertificates.
- Use CA Certificate File to specify the location of the SSL certificate. The path is relative to the server where the CM Portal is located, for example, C:\Program Files\Hewlett-Packard\CM\ManagementPortal\etc\CACertificates\<LDAP Certificate File Name>.

UI Settings

Use for Reporting:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Use for Policy:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Use for Authorization:	<input checked="" type="checkbox"/> <input type="checkbox"/>
Group DN for Authorized Users:*	<input type="text" value="ou=asdfoods Authorized User, ou=groups, dc="/> <input type="button" value="?"/>
Use Service Account:	<input checked="" type="checkbox"/> <input type="checkbox"/>

7 For UI Settings, you have the following options.

- **Use for Reporting:** When enabled, this directory service becomes enabled in the Reporting tab of the CM Enterprise Manager as a filter source. CM Reporting Server must be configured to use the CM Portal as its directory source for this feature to work.
- **Use for Policy:** When enabled, this directory service can be used in the CM Enterprise Manager for policy management.
- **Use for Authorization:** When enabled, this directory service becomes enabled as a signin option on the main CM Enterprise Manager screen to allow user authentication based on your existing directory users. The following two parameters will become available.
 - **Group DN for Authorized Users:** The Group DN is used as the source for authorized users into this console. Any user that is a

member of this group will be enabled to sign in to the CM Enterprise Manager.

- **Use Service Account:** When enabled, all read and write requests for this directory service will use the Service Account ID specified in the Connection Settings. When disabled, all read and write requests for this directory service, will use the signed on user's credentials.

Log Settings

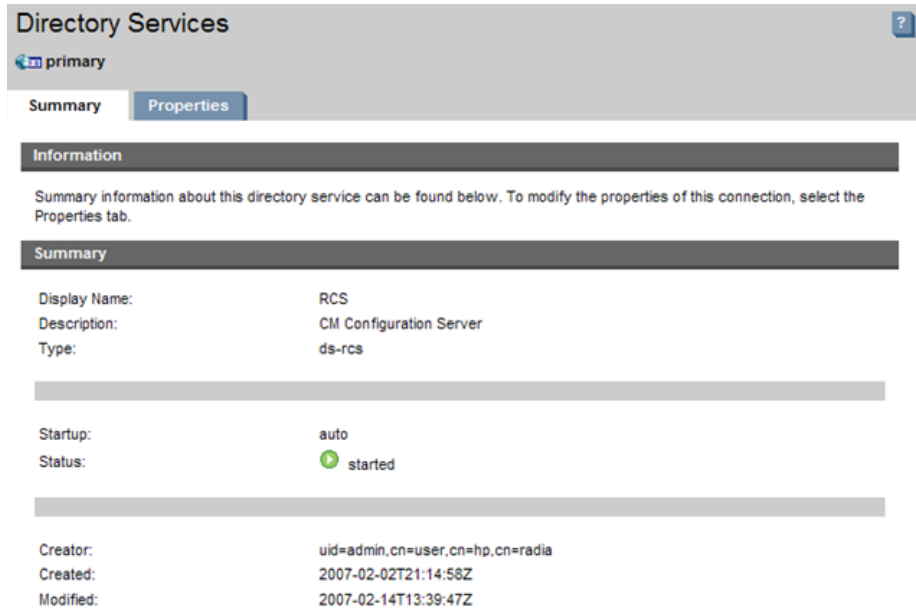
DS Log Level:*

- 8 For **Log Settings**, you only need to set the DS Log Level.
- 9 Click **Next**.
- 10 Review the Summary screen. If all properties are correct, click **Commit**.
- 11 Click **Close** to acknowledge the dialog.

If the directory service connection is already created, you may want to view its properties or change connection options.

[To view directory service details](#)

- 1 From the Configuration tab, click **Directory Services** icon on the left pane.
- 2 Click the name of the directory service that you want to view details or change the options for.



- 3 Click the **Summary** tab to see basic information about the directory service. You cannot modify these properties.
- 4 Click the **Properties** tab to see the display name and Description of the user. You can modify these properties. Click **Save** after making modifications.
- 5 Click **Close** to acknowledge the dialog.

To change a directory service options

- 1 From the Configuration tab, click **Directory Services** on the left pane.
- 2 Click the name of the directory service that you want to change the options for.
- 3 Click the **Properties** tab to see the modifiable options.
- 4 Make changes to the presented options. To see a list of options, see [To configure the CM Configuration Server Directory Service](#) on page 22, [To configure LDAP Directory Services \(without SSL\)](#) on page 24, or [To configure LDAP Directory Services with SSL](#) on page 26.
- 5 Click **Save**.
- 6 Click **Close** to acknowledge the dialog.

The options for the directory service have changed.

Integrating the CM Reporting Server

The CM Reporting Server allows you to view and filter information on devices in your enterprise. For information on installing and configuring the CM Reporting Server, see the *HP OpenView Configuration Management Reporting Server Installation and Configuration Guide*. When you enter information in the Reporting Integration section of the Configuration tab, you can access the CM Reporting Server by clicking the Reporting tab.



To use this feature, you must already have a CM Reporting Server configured for your enterprise.

To integrate the CM Reporting Server

- 1 From the Configuration tab, click **Reporting Integration**.

Enable Integration::* ☒ ?

CM Reporting URL::* ?

e.g. `http://cmreporting/rrs` or `https://cmreporting/rrs`

- 2 Click **Enable Integration** to allow you to view your CM Reporting Server by clicking on the Reporting tab of the CM Enterprise Manager.
- 3 In **CM Reporting URL**, type the URL for your CM Reporting Server. Enter the fully qualified host name in the configuration box. Do *not* use `localhost` even if the CM Reporting Server is on the same computer as the CM Enterprise Manager.
- 4 Click **Save**.
- 5 Click **Close** to acknowledge the dialog.

The Reporting tab should show in your CM Enterprise Manager immediately. If not, refresh your browser to see the Reporting tab.

Console Settings

Use Console Settings to set advanced options for the CM Enterprise Manager user interface.

To configure console settings

- 1 From the Configuration tab, click **Console Settings**.

Settings

* Required Field

Show Friendly Names:* ☒ ?

Maximum Cache Age:* ?
e.g. 5

Service Tooltip Attributes:* ?
e.g. DISPLAYNAME, CREATETIMESTAMP

Directory Search Attributes:* ?
e.g. DISPLAYNAME, DN, EDMPOLICY, OBJECTCLASS

- 2 Set the following options
 - Select **Show Friendly Names** to use the friendly name value of the directory object in the CM Enterprise Manager.
 - Set **Maximum Cache Age** to set the threshold for when the cache should expire for a given set of data. This value is in minutes.
 - Use **Service Tooltip Attributes** to provide the comma separated list of Service attributes to be displayed in a tooltip when you hover over a service instance. For a list of the Service attributes see the *HP OpenView Configuration Management Application Manager Installation and Configuration Guide*.
 - Use **Directory Search Attributes** to specify a default set of attributes for the directory search dropdown menu. Consult your directory service's documentation for valid attributes.
- 3 Click **Save** to implement your changes.
- 4 Click **Close** to acknowledge the dialog.

Log Files

If you are having issues with connecting or using features of the CM Enterprise Manager, you may need to access the `stderr.log` file. The default location is `\CM-EC\tomcat\logs\stderr.log`. You are not expected to understand the contents of this file, but be aware of it for the following reasons.

- To be able to look for entries labeled “severe”.
- To access this file under the direction of HP Support.

4 Enterprise Management

At the end of this chapter, you will:

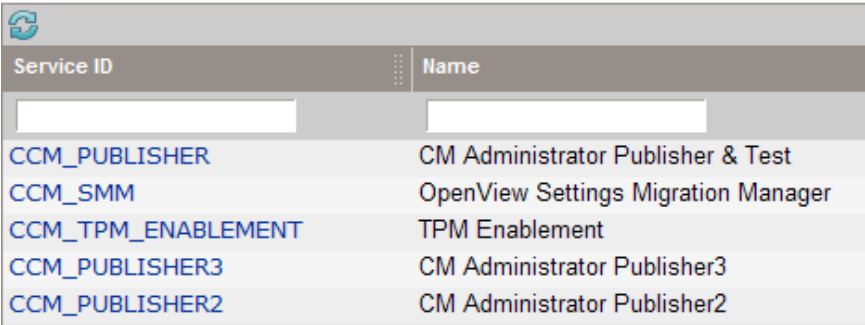
- Know how to use the management tab of the CM Enterprise Manager.
- Be able to view available services
- Use directory services to create entitlements, viewing current policy.

Service Information

After signing in to the CM Enterprise Manager, you can view the services that are available from your CM Configuration Server. A service is a set of data managed as a unit, for example, an application. Services are created using the CM CSDB Editor. See the *HP OpenView Configuration Management Administrator Configuration Server Database Editor Guide*.

To view available Services

- 1 Sign in to the CM Enterprise Manager.
- 2 Click **Management**.
- 3 From the left pane, click **Services**. The list of available CM Configuration Server Database Domains opens up.
- 4 Click the CM Configuration Server Database Domain that you want to see the Services for. The default view is the Software Domain.

A screenshot of the CM Enterprise Manager interface showing a table of services. The table has two columns: 'Service ID' and 'Name'. There are five rows of data. Above the table, there are two input boxes for filtering by Service ID and Name. The table is styled with a light gray background and dark gray headers.

Service ID	Name
CCM_PUBLISHER	CM Administrator Publisher & Test
CCM_SMM	OpenView Settings Migration Manager
CCM_TPM_ENABLEMENT	TPM Enablement
CCM_PUBLISHER3	CM Administrator Publisher3
CCM_PUBLISHER2	CM Administrator Publisher2

- 5 You can filter by **Service ID** or **Name** by typing the criteria in the entry boxes in the columns.
- 6 Click on a Service to view its details.
 - The **Properties** tab shows the attributes of the Service from the CM Configuration Server Database.
 - The **Reporting** tab show summary reports on the Service. You will only see information here if you have enabled CM Reporting Server Integration. To do this, see [To integrate the CM Reporting Server](#) on page 30. For information on the reports, see *HP OpenView Configuration Management Reporting Server Installation and Configuration Guide*.

Managing Directory Policies

From the Management tab, Directories tree, you can view the objects in your configured directory services. See [Configuring Directory Services](#) on page 21. You can also see the properties of the object, create its policies, and view its entitlements. When you click a directory object, you see the following tabs:

- Click **Children** to view the object's children. Click on a child object to browse to that object.
- Click **Properties** to view the object's properties.
- Click **Members** to view the object's members.
- Click **Policies** to view the object's local policy configuration, and to create policies for this object.
- Click **Entitlements** to view all resolved policies for this object.

The CM Enterprise Manager provides the ability to search for directory service objects.

To search for a directory object

- 1 From the Management tab, click the **Search Directories** icon under Directories.
- 2 From the Directory Search box, you can define the following parameters:
 - Select your **Search DN**, by clicking on it in the tree view on the left.
 - Select a **Scope** of either the current level or the current level and all below it.
 - Create a **Filter** expression by selecting an attribute, an operator, and typing in the criteria. To configure the list of available attributes, see [Console Settings](#) on page 30.
- 3 Click **Search** to find the objects that meet your criteria.
- 4 Click **Reset** to begin a new search.

To manage policy of directory objects

- 1 Sign in to the CM Enterprise Manager.
- 2 Click on **Management**.
- 3 From the accordion control, click **Directories**. The list of available directory services expands.

- 4 Click on the directory service you want to expand.
- 5 Click on a container, or child of the directory service, to view or manage it. To control a specific policy object, navigate to that object. Four tabs will appear.
 - **Children** lists the other objects that fall under the selected object.
 - **Properties** shows the attributes of the selected policy object. Depending on the type of object, this may include, but is not limited to, the Full name, cn, and ip address.
 - **Members** lists the object's members if it has members.
 - **Policies** allows you to set which services the selected policy object is allowed.
 - **Entitlements** shows all resolved policies for the selected object. This includes policies inherited from a parent object.



When you visit the policy tab, the CM Enterprise Manager checks your permissions. If you do not have write permissions, the object's icon will be disabled (grayed).

In our example we will create a policy for one device.

The screenshot shows the 'Directory Object' page in CM Enterprise Manager. The breadcrumb path is 'Zone: hp > Groups > All Devices'. The 'Policies' tab is selected. Below the tabs is an 'Information' section with a message: 'The local policy configuration for this object is listed below. To review all resolved policy, select the Entitlements tab.' Below this is a 'Policies' table with columns: Domain, Class, Service ID, Description, and Policy. The table is currently empty. A legend on the left side of the screenshot identifies the following elements:

- a** Selected directory object (points to the breadcrumb path)
- b** Refresh policy list (points to the refresh icon in the table header)
- c** Filter bar (points to the filter icon in the table header)
- d** Policy Management Wizard (points to the wizard icon in the table header)

Legend

- a** Selected directory object
- b** Refresh policy list
- c** Filter bar
- d** Policy Management Wizard

- 6 Click the **Policy Management Wizard** button to start the Policy Management Wizard.
- 7 In **Step 1 of 3: Service Selection**, you will select the services that you want to add to the object's policy. Select the Configuration Server Database Domain from which you want to select the Service.
- 8 Check the box next to the services you want to add.
- 9 Click **Add to Selection** to move the service to the tree view on the right side of the Wizard's screen.
- 10 Click **Next** when you have added all the services you need.
- 11 In **Step 2 of 3: Policy Configuration**, set the type of Policy and the Priority for each of the services. In the example below, we have one Service from the Audit Domain and one from the Software Domain.

Selected Services					
Listing records 1 - 2 of 2					
Domain	Service ID	Description	Policy	Priority	Advanced
Software	CCM_PUBLISHER	CM Administrator	Allow	Low	Add
Audit	WIN32_SERVICE_AUDIT	WBEM Windows Services	Allow	Low	Add

- Set **Policy** to either Allow or Deny.
- Set **Priority** to Low, Medium, or High.
- Click **Add** in the **Advanced** column to add additional Configuration Management attributes and expressions to the criteria for an object. See the *HP OpenView Configuration Management Policy Server Installation and Configuration Guide*.



The **Advanced** feature should only be used by CM Administrators who are extremely familiar with the CM Configuration Server Database and the CM Infrastructure.

- 12 Click **Next** when you have configured the policies.
- 13 In **Step 3 of 3: Summary**, check your configuration. Click **Commit** to complete the Policy Management Wizard.
- 14 Click **Close** to acknowledge the dialog.

A Product Name Changes

If you have used Radia in the past, and are not yet familiar with the newly rebranded HP terms and product names, Table 1 below will help you identify naming changes that have been applied to the Radia brand.

Table 1 Product Name and Term Changes

New Name/Term	Old Name/Term
HP OpenView Configuration Management	Radia
HP OpenView Configuration Management Solutions for Servers	Server Management
HP OpenView Configuration Management Portal	Radia Management Portal

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