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### Service User Account

The Directory Services service user account is a Windows user account that has special privileges on the Directory Services server. Before you install Directory Services, you must create this account in Windows. You may also choose to install and run Directory Services by using the default Administrator user account.

The service user account must have the following special privileges:

- Local Administrator
- Logon as a service

**Note:** We recommend that the service user account that you use to install and run Directory Services be a local user account that you create on the Directory Services server, rather than using a Windows domain account or an Active Directory account. Though not a requirement, using a local Windows account ensures that modifications or updates to the domain do not affect Cisco Unified MeetingPlace Directory Services operation.

## Prerequisites

- If you are a Cisco partner or technician responsible for installing Cisco Unified MeetingPlace Directory Services, review the [Implementation Steps and Checklist](#).
- Verify that your system meets the requirements that are specified in the [System Requirements](#).
- If you choose to identify a server by hostname rather than by IP address, ensure that DNS is enabled to resolve the hostname.
- Ensure that the Directory Services service user account was assigned the following special privileges and that you log in to Windows by using this account before you install Directory Services:
  - ◆ Local Administrator privilege
  - ◆ Logon as a service privilege

For more information, see the [Service User Account](#).

## Restrictions

Round-trip latency to the Cisco Unified MeetingPlace Audio Server must be less than 100ms.

You can install Cisco Unified MeetingPlace Directory Services on a dedicated Cisco MCS or with only the following Cisco Unified MeetingPlace components and integration applications:

- Cisco Unified MeetingPlace Web Conferencing
- Cisco Unified MeetingPlace H.323/SIP IP Gateway
- Cisco Unified MeetingPlace for Microsoft Outlook
- Cisco Unified MeetingPlace for IBM Lotus Notes
- Cisco Unified MeetingPlace SMTP E-Mail Gateway

Do not install Directory Services with any other applications or products.

## Installing Cisco Unified MeetingPlace Directory Services

To install Cisco Unified MeetingPlace Directory Services, do the following tasks:

1. Complete the Installation Worksheet. See the [Completing the Installation Worksheet](#).
2. Install the software. See the [Installing the Software](#).
3. (Optional) Verify the installation. See the [Verifying the Installation](#).

## Completing the Installation Worksheet

To collect information that you need when you install Directory Services, complete the following worksheet:

Table: Cisco Unified MeetingPlace Directory Services Installation Worksheet

Description	Values
Cisco Unified MeetingPlace Audio Server hostname or IP address	Cisco Unified MeetingPlace hostname or IP address _____
Is the Cisco Unified MeetingPlace Audio Server a network server?	Yes_____ No_____
Has the Directory Integration License been purchased and installed in the Cisco Unified MeetingPlace Audio Server system?	Yes_____ No_____
Cisco Unified MeetingPlace Audio Server release number	Release number_____
Number of profiles in your Cisco Unified MeetingPlace Audio Server	Number of profiles_____
Cisco Unified MeetingPlace username and password <b>Note:</b> This account must have system manager rights.	Username_____
Cisco Unified MeetingPlace Directory Services server hostname or IP address	Hostname_____
Cisco Unified MeetingPlace Directory Services server username and password. <b>Note:</b> This account must have local administrative rights and logon as service rights as specified in the <u>Service User Account</u> .	IP address_____
Cisco Unified MeetingPlace Directory Services Administration console password. <b>Note:</b> This account is created during Cisco Unified MeetingPlace Directory Services installation.	Username_____
Directory for Cisco Unified MeetingPlace Directory Services suspense files; for example, <drive>:\mpdslogs. <b>Note:</b> This directory must have at least 4 GB of free space in an NTFS partition.	Password_____
Is the Cisco Unified MeetingPlace Directory Services server a master server or a slave server?	User DN = "cn=admin, o=comp.com"
Is Sun Java Runtime Environment (JRE) version 1.4.2_05 installed on the Cisco Unified MeetingPlace Directory Services server?	Master_____
Corporate directory server hostname or IP address	Slave_____
	Yes_____ No_____
	Hostname_____

	IP address _____
Corporate directory subtree that is being synchronized	Subtree _____
Number of entries in the corporate directory server	Number of profiles _____
For assistance, contact your corporate directory server system manager.	
Corporate directory server LDAP port number	Port number _____

## Installing the Software

**Note:** When installing Directory Services, we recommend that you use the console and that you do not use terminal services.

### To Install the Cisco Unified MeetingPlace Directory Services Software

1. Log in to the Windows server by using an account that meets the criteria specified in Service User Account and was entered in the Completing the Installation Worksheet.
2. Insert the Directory Services CD into the Windows server CD-ROM drive and click **Next**.
3. (Optional) If the installation wizard fails to start (for example, autorun is disabled), complete the following steps:
  1. Choose **Run** from the Windows Start menu.
  2. Enter **x:\directoryservices.exe**, where **x**: refers to the CD-ROM drive letter.
  3. Click **OK** and wait while the Directory Services files are extracted.  
After the setup files are extracted, Cisco Unified MeetingPlace services are automatically stopped.
4. To install Directory Services in the default directory, click **Next** from the Choose Destination Location window.
 

**Note:** We recommend that you accept the default installation directory to ensure compatibility with the file path information contained in the default configuration files that are supplied with Directory Services.
5. In the Enter Password window, enter and reenter the password that allows you to log in to this Windows server. This account must have local administrative rights.
6. Enter and re-enter the Directory Services Administrator password in the fields provided. This is the value you entered in the Completing the Installation Worksheet.
 

**Note:** This password becomes the login password for the Directory Service Administration console, which is the graphical user interface (GUI) for accessing Directory Services.
7. To accept C:\mpdslogs as the default directory for the Directory Services suspense (error) logs, click **Next**.
8. To begin installation, click **Yes**.
 

**Caution!** During installation and reboot, DOS prompt windows appear. Do not close these windows or the installation will fail.
9. After Directory Services is installed, click **OK**.
10. Choose the option to reboot your computer and click **Finish**.  
If other Cisco Unified MeetingPlace products (such as Cisco Unified MeetingPlace Web Conferencing) are installed and configured on this computer, you have completed

installation.

or

If no other Cisco Unified MeetingPlace products are installed and configured on this computer, continue with [Step 11](#).

11. In the MeetingPlace Server Entry window, if you are using DNS, enter the hostname of the Cisco Unified MeetingPlace Audio Server.

or

If you are not using DNS, enter the server IP address.

12. Click **Next**.

13. Enter the IP address of the Directory Services server and click **Next**.

The computer will now reboot.

14. After the computer has rebooted and the login prompt appears, log in by using the same account that you used during the previous stages of this installation.

After login, installation continues with the initialization of the directory database. After the database is initialized, installation is complete.

## Verifying the Installation

After you install Directory Services, we recommend you verify that Directory Services is installed.

**Note:** To use these instructions, Directory Services must be installed in the default program group.

### To Verify that Directory Services Is Installed Properly

1. From the Windows Start menu, choose **Programs > Administrative Tools > Services**.
2. Verify that the following services are running:
  - ◆ Cisco Unified MeetingPlace Gateway SIM
  - ◆ MeetingPlace Directory Server
3. From the Windows Start menu, choose **Programs > MeetingPlace Applications > MeetingPlace Gateway Configuration**.

The MeetingPlace Gateway Configuration window appears.
4. In the lower right pane of the Gateway SIM tab, verify that the status is **Connected**.
5. From the Windows Start menu, choose **Programs > DC Directory Administrator**.
6. At the first login to Cisco Unified MeetingPlace Directory Services Admin window, click **Next**.
7. In the second Logon to Cisco Unified MeetingPlace Directory Services Admin window, enter the username **/o=comp.com/cn=admin** and the password specified in [Step 6](#) of the [Installing the Software](#) and click **Finish**.
8. In the left pane of the Cisco Unified MeetingPlace Directory Services Admin window, click the Directory node and the comp.com node to expand them; then, verify that the **People** directory exists.
9. To verify that the schema is in the database, from the View menu, choose **Mode** and confirm that MeetingPlace User is present on the Mode submenu.
10. By using Windows Explorer, verify that the (C:\mpdslogs) directory that you created to store the suspense files exists.