



## LDAP system setup

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This chapter provides information to configure LDAP system parameters using Cisco Unified Communications Manager. The LDAP directory configuration takes place in the following windows:

- LDAP System Configuration
- LDAP Directory
- LDAP Authentication
- LDAP Filter Configuration

For additional information, see topics related to the directory, application users, and end users in the *Cisco Unified Communications Manager System Guide*.

- [About LDAP System setup, page 1](#)
- [LDAP system settings, page 2](#)

## About LDAP System setup

In Cisco Unified Communications Manager Administration, use the **System > LDAP > LDAP System** menu path to configure LDAP system settings.

Use the LDAP System Configuration window to enable LDAP synchronization and to set up the LDAP server type and the LDAP attribute name for the user ID.

### Before you begin

The setting of the Enable Synchronizing from LDAP Server check box in this window affects the ability to modify end users in Cisco Unified Communications Manager Administration. LDAP synchronization applies only to end users; LDAP synchronization does not affect application users. See topics related to understanding the directory in the *Cisco Unified Communications Manager System Guide* for more information about LDAP synchronization.

For end user data, you cannot use the End User Configuration window to update the attributes that get synchronized from the corporate directory. You can update these attributes only in the corporate directory itself, after which you should perform a resynchronization.

You can make changes to LDAP Directory information and LDAP Authentication settings only if synchronization from the customer LDAP directory is enabled in the Cisco Unified Communications Manager Administration LDAP System Configuration window.



**Note** If end users exist in the Cisco Unified Communications Manager database before synchronization with a corporate directory occurs, the system will delete those end users that did not have a matching user ID in the corporate directory. For example, if users bob and sanjay were in the Cisco Unified Communications Manager database, but only bob was in the LDAP directory, then sanjay would be marked inactive and eventually get deleted by the garbage collector program.



**Note** After an LDAP Directory configuration for the DirSync service gets created or the LDAP user authentication is enabled, the settings in the LDAP System Configuration window become read only.



**Note** After you configure LDAP synchronization in Cisco Unified Communications Manager Administration, users without last names in the corporate directory do not synchronize with the Cisco Unified Communications Manager database. No error displays in Cisco Unified Communications Manager Administration, but the log file indicates which users did not synchronize.

## LDAP system settings

The following table describes the LDAP system settings.

**Table 1: LDAP system settings**

Field	Description
LDAP System Information	

Field	Description
Enable Synchronizing from LDAP Server	<p>To enable synchronization of data from the customer LDAP server, check this check box.</p> <p>If synchronization with the LDAP server is enabled, the following circumstances occur:</p> <ul style="list-style-type: none"> <li>• You cannot modify end user data, except for the fields (attributes) that are not synchronized from the corporate directory. Example: user PIN. (The administrator can always modify application user data.)</li> <li>• You can modify the LDAP Directory information.</li> <li>• You can modify LDAP Authentication information.</li> </ul> <p>If synchronization with the LDAP server is not enabled (is disabled), the following circumstances occur:</p> <ul style="list-style-type: none"> <li>• You cannot modify LDAP Directory information.</li> <li>• You cannot modify LDAP Authentication information.</li> </ul>
LDAP Server Type	<p>If synchronization with the LDAP server is currently enabled, you can choose one of the selections in this drop-down list box. Choose the value that corresponds to the customer LDAP server type:</p> <ul style="list-style-type: none"> <li>• Microsoft Active Directory</li> <li>• Microsoft Active Directory Application Mode</li> <li>• Netscape or Sun ONE LDAP Server</li> <li>• OpenLDAP</li> </ul>

Field	Description
LDAP Attribute for User ID	<p>If synchronization with the LDAP server is enabled, you can choose an LDAP attribute value for the user ID. Choose one of the following values from the drop-down list box:</p> <ul style="list-style-type: none"><li>• For Microsoft Active Directory<ul style="list-style-type: none"><li>◦ sAMAccountName</li><li>◦ mail</li><li>◦ employeeNumber</li><li>◦ telephoneNumber</li><li>◦ userPrincipalName</li></ul></li><li>• Microsoft Active Directory Application Mode<ul style="list-style-type: none"><li>◦ uid</li><li>◦ mail</li><li>◦ employeeNumber</li><li>◦ telephoneNumber</li><li>◦ userPrincipalName</li></ul></li><li>• For Sun ONE LDAP Server, iPlanet, and OpenLDAP<ul style="list-style-type: none"><li>◦ uid</li><li>◦ mail</li><li>◦ employeeNumber</li><li>◦ telephoneNumber</li></ul></li></ul>

### Related Topics