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## Directory Service

Directory Service enables the system to populate and synchronize the Cisco Unified MeetingPlace user database with the Cisco Unified Communications Manager user database, which is typically integrated with an LDAP directory.

**Note:** For information about LDAP integration, see the *Cisco Unified Communications Solution Reference Network Design (SRND)* that applies to your version of Cisco Unified Communications Manager at <http://www.cisco.com/go/designzone>.

Specifically, Directory Service simplifies user profile administration by doing the following:

- Imports user profiles from Cisco Unified Communications Manager to Cisco Unified MeetingPlace.
- Periodically updates the Cisco Unified MeetingPlace database with new or modified user entries in the Cisco Unified Communications Manager database.
- Periodically checks the Cisco Unified Communications Manager database for inactive user entries, and deletes those user profiles from the Cisco Unified MeetingPlace database.
- Enables the system to use AXL authentication to authenticate Cisco Unified MeetingPlace Directory Service users against the external directory.
- Supports fully encrypted LDAP integration when Secure LDAP (SLDAP) is enabled on Cisco Unified Communications Manager and the LDAP server.

**Note:** SSL for the Cisco Unified MeetingPlace Application Server is not required to support Secure LDAP integration. You must, however, make sure that the configured [AXL URL](#) begins with "https" instead of "http."

#### Related Topics

- [Configuring Cisco Unified MeetingPlace Directory Service](#)

## Directory Service User Profile Configuration

During the initial Directory Service import of a user profile, the fields are configured as described in [Table: User Profile Field Configuration Through Directory Service](#). If the corresponding Cisco Unified Communications Manager user profile is modified, the next Directory Service user profile update or full synchronization reconfigures the Cisco Unified MeetingPlace user profile fields as specified in [Table: User Profile Field Configuration Through Directory Service](#).

**Note:** To change any of the [User Profile Fields](#) in [Table: User Profile Field Configuration Through Directory Service](#), you must configure the corresponding [Source](#).

**Table: User Profile Field Configuration Through Directory Service**

Source	User Profile Fields
Directory Service import process	<a href="#">isLocalUser</a> -- This is always set to No in each Directory Service user profile.
Cisco Unified Communications Manager user database	<p>Below are mandatory fields for User Profile creation. Click on each field name for their detailed explanation:</p> <ul style="list-style-type: none"> <li>• <a href="#">User ID</a></li> <li>• <a href="#">First name</a></li> <li>• <a href="#">Last name</a></li> <li>• <a href="#">Profile number</a> <ul style="list-style-type: none"> <li>◆ Release 7.0.2 and later releases -- See <a href="#">Assigning Profile Numbers to Directory Service Users</a>.</li> <li>◆ Release 7.0.1 -- Unique number based on the Telephone Number in Cisco Unified Communications Manager. If the Telephone Number is not available in Cisco Unified Communications Manager, Cisco Unified MeetingPlace randomly generates a unique <a href="#">Profile number</a> during the initial import of the user profile. As long as the phone number remains unavailable in Cisco Unified Communications Manager, the <a href="#">Profile number</a> is not overwritten by Directory Service user profile updates or full synchronizations.</li> </ul> </li> <li>• <a href="#">User status</a></li> <li>• <a href="#">E-mail address</a></li> <li>• <a href="#">Main phone number</a></li> </ul>

	The User ID field cannot be an empty value. Unless otherwise specified, the field in Cisco Unified MeetingPlace User Profile is left blank if the corresponding field in Cisco Unified Communications Manager is empty.
User group filters  or  <u>Group name</u> in user profile	<u>Group name</u> -- See <u>Assigning User Groups for Directory Service Users</u> .
Time zone filters  or  <u>Time zone</u> in user group or user profile	<u>Time zone</u> -- See <u>Assigning Time Zones to Directory Service Users</u> .
Guest Profile (first import only)	<p>All user profile fields <i>not</i> mentioned previously in this table are initially populated with the values configured in <u>Guest Profile</u>. You can then modify the individual user profile fields through the Administration Center. The values will <i>not</i> be overwritten by Directory Service user profile updates or full synchronizations.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> <li>• Remember that all user profile fields set to "Group default" inherit their value from the user group. If the <u>Group name</u> is modified through Directory Service filters or department number changes, the user profile fields will be modified accordingly.</li> <li>• The following fields are not populated at all through Directory Service. Because Directory Service users are <i>not</i> authenticated by Cisco Unified MeetingPlace, these password fields are not imported and cannot be modified through Cisco Unified MeetingPlace: <ul style="list-style-type: none"> <li>◆ <u>User password</u> and <u>User password confirm</u></li> <li>◆ <u>Profile password</u> and <u>Profile password confirm</u></li> </ul> </li> </ul>

**Related Topics**

- Configuring User Profiles and User Groups for Cisco Unified MeetingPlace
- Configuring Cisco Unified MeetingPlace Directory Service

## Directory Service User Profile Deletion

The system periodically checks Cisco Unified Communications Manager for inactive user entries and deletes those user profiles from Cisco Unified MeetingPlace. Specifically:

- (For Cisco Unified Communications Manager with LDAP integration) When a user is deleted or disabled in the LDAP directory, the corresponding user entry in Cisco Unified Communications Manager becomes *inactive*.

Every 24 hours, Cisco Unified Communications Manager *deletes* user entries that have been inactive for more than 24 hours.

- Every 8 hours, Cisco Unified MeetingPlace checks the value of the Update users interval field on the Directory Service Configuration Page.
  - ◆ If the Update users interval field value is less than 24 hours, then no action is taken.
  - ◆ If the Update users interval field value is 24 hours or more, then the system checks Cisco Unified Communications Manager for any inactive users, and *deactivates* those users in Cisco Unified MeetingPlace by setting the User status user profile field to Inactive.

The system does *not* import or update user profiles using this 8-hour cycle. Instead, the importing and updating of user profiles occurs at the configured Update users interval.

- According to the configured Update users interval, the system *deletes* the following user profiles from Cisco Unified MeetingPlace:
  - ◆ Users that are inactive in Cisco Unified Communications Manager.
  - ◆ Directory Service users that are inactive in Cisco Unified MeetingPlace.

The system also imports and updates user profiles at the configured Update users interval.

### Related Topics

- [Configuring Cisco Unified MeetingPlace Directory Service](#)

## Directory Service isLocalUser Setting In User Profiles

Each user profile in Cisco Unified MeetingPlace includes an isLocalUser setting, which determines:

- Whether the user is authenticated externally through AXL authentication.
- How the user profile settings are configured.

<u>isLocalUserSetting</u>	Description
Yes	<ul style="list-style-type: none"> <li>• User is authenticated locally against the Cisco Unified MeetingPlace database.</li> <li>• User profile settings can be modified through Cisco Unified MeetingPlace user interfaces.<sup>1</sup></li> </ul>

	<ul style="list-style-type: none"> <li>• Yes is the default value for user profiles that are manually imported or created through the Administration Center.</li> </ul>
No	<ul style="list-style-type: none"> <li>• Identifies a Directory Service user.</li> <li>• User is authenticated externally through AXL authentication. See <a href="#">External AXL Authentication for Directory Service Users</a>.</li> <li>• User profile changes that are made through Cisco Unified MeetingPlace user interfaces<sup>1</sup> may be overwritten by the next Directory Service user profile update. See <a href="#">Directory Service User Profile Configuration</a>.</li> <li>• No is the default value for user profiles that are imported through Directory Service.</li> </ul>

**Footnote 1:** Cisco Unified MeetingPlace user interfaces include the end-user web interface on the Web Server, the Cisco WebEx integration end-user interface on the Application Server, and the Administration Center (both the User Profiles Page and the Import User Profiles Page).

**Note:** The [isLocalUser](#) setting *cannot* be configured through the Administration Center. If you manually set [isLocalUser](#) to No by adding or editing user profiles by import, note that the user profiles may be affected during the next Directory Service user update:

- Any *inactive* user entries found in Cisco Unified Communications Manager will be deleted from the Cisco Unified MeetingPlace database.
- Some user profile fields will be overwritten by data from Cisco Unified Communications Manager and by Directory Service filters.

See [Directory Service User Profile Configuration](#).

#### Related Topics

- [Adding or Editing User Profiles by Import](#)
- [Methods for Adding User Profiles](#)

## External AXL Authentication for Directory Service Users

Directory Service users are those whose [isLocalUser](#) user profile field is set to No. Which external device authenticates a Directory Service user depends on:

- Whether the user logs in over the phone or web.
- Whether Cisco Unified Communications Manager uses LDAP directory integration.

**Table: Directory Service User Authentication**

<b>Directory Service User Login Method</b>	<b>Device Used to Authenticate the Directory Service User (With LDAP Integration)</b>	<b>Device Used to Authenticate the Directory Service User (Without LDAP Integration)</b>
Phone	Cisco Unified Communications Manager	Cisco Unified Communications Manager
Web	LDAP directory	Cisco Unified Communications Manager

**Related Topics**

- [Directory Service isLocalUser Setting In User Profiles](#)
- [User Authentication for Cisco Unified MeetingPlace](#)
- [Configuring Cisco Unified MeetingPlace Directory Service](#)