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Activating Cisco AXL Web Services and Cisco DirSync on Cisco Unified Communications Manager

Cisco AXL Web Services enables Cisco Unified Communications Manager to perform AXL authentication for Cisco Unified MeetingPlace users. Cisco DirSync enables Cisco Unified Communications Manager to synchronize the user database with the LDAP directory.

Before You Begin

You perform this task in the Cisco Unified Serviceability pages. Because the pages and menus vary by release, you should check the Cisco Unified Serviceability online help for step-by-step instructions that are specific to your release.

Procedure

1. Go to **<http://<ccm-server>/ccmservice/>**, where *<ccm-server>* is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **Tools > Service Activation**.
4. If not already checked, check **Cisco AXL Web Service**.
5. Check **Cisco DirSync** if you are using LDAP integration.
6. Click **Save**.

What to Do Next

If you are using LDAP integration, proceed to [How to Configure LDAP Integration on Cisco Unified Communications Manager](#).

Otherwise, proceed to [Creating an Application User in Cisco Unified Communications Manager](#).

How to Configure LDAP Integration on Cisco Unified Communications Manager

Prerequisites for Configuring LDAP Integration on Cisco Unified Communications Manager

- Complete [Activating Cisco AXL Web Services and Cisco DirSync on Cisco Unified Communications Manager](#)
- If LDAP integration is already configured for your Cisco Unified Communications Manager, proceed to [Creating an Application User in Cisco Unified Communications Manager](#).
- Some LDAP directories may require different or more complex configurations than the procedures described in this document. To do the following, check [System Requirements](#):
 - ◆ Verify that your LDAP directory is supported for use with Cisco Unified MeetingPlace.
 - ◆ See if a specific configuration is required between Cisco Unified Communications Manager and your LDAP directory.
- This document provides basic instructions for configuring LDAP integration. For detailed information, see the following documents for your version of Cisco Unified Communications Manager:
 - ◆ *Cisco Unified Communications Solution Reference Network Design (SRND)* at <http://www.cisco.com/go/designzone>
 - ◆ *Cisco Unified Communications Manager Administration Guide* at http://www.cisco.com/en/US/products/sw/voicesw/ps556/prod_maintenance_guides_list.html
- You perform these tasks in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you may need to check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Tip: You can click **Help > This Page** at any time to find detailed information.

Related Topics

- [How to Configure LDAP Integration on Cisco Unified Communications Manager](#)

Enabling LDAP Synchronization on Cisco Unified Communications Manager

Before You Begin

Read [Prerequisites for Configuring LDAP Integration on Cisco Unified Communications Manager](#).

Procedure

1. Go to **http://<ccm-server>/ccmadmin/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **System > LDAP > LDAP System**.
4. Check **Enable Synchronizing from LDAP Server**.
5. Choose the appropriate server type and user ID attribute.

You can click **Help > This Page** at any time to find detailed information.

6. Click **Save**.

What to Do Next

Proceed to [Adding an LDAP Directory to Cisco Unified Communications Manager](#).

Adding an LDAP Directory to Cisco Unified Communications Manager

Before You Begin

Complete [Enabling LDAP Synchronization on Cisco Unified Communications Manager](#).

Procedure

1. Log in to Cisco Unified Communications Manager Administration:
 1. Go to **http://<ccm-server>/ccmadmin/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
 2. Log in with your Cisco Unified Communications Manager administrator username and password.
2. Click **System > LDAP > LDAP Directory**.
3. Click **Add New**.
4. Configure the fields on the LDAP Directory page.

You can click **Help > This Page** at any time to find detailed information.
5. Click **Save**.

What to Do Next

Proceed to [Synchronizing Cisco Unified Communications Manager with the LDAP Directory](#).

Synchronizing Cisco Unified Communications Manager with the LDAP Directory

Before You Begin

Complete [Adding an LDAP Directory to Cisco Unified Communications Manager](#).

Procedure

1. Log in to Cisco Unified Communications Manager Administration:
 1. Go to **http://<ccm-server>/ccmadmin/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
 2. Log in with your Cisco Unified Communications Manager administrator username and password.
2. Click **System > LDAP > LDAP Directory**.
3. Click **Find**.
4. Click the name of your LDAP configuration entry.
5. Click **Perform Full Sync Now**.

What to Do Next

Proceed to [Configuring LDAP Authentication for Cisco Unified Communications Manager](#).

Configuring LDAP Authentication for Cisco Unified Communications Manager

Before You Begin

Complete the tasks in [How to Configure LDAP Integration on Cisco Unified Communications Manager](#).

Procedure

1. Log in to Cisco Unified Communications Manager Administration:
 1. Go to **http://<ccm-server>/ccmadmin/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
 2. Log in with your Cisco Unified Communications Manager administrator username and password.
2. Click **System > LDAP > LDAP Authentication**.
3. Configure the fields on the LDAP Authentication page.

You can click **Help > This Page** at any time to find detailed information.
4. Make sure that you check **Use LDAP Authentication for End Users**.
5. Click **Save**.

What to Do Next

Proceed to [Creating an Application User in Cisco Unified Communications Manager](#).

Creating an Application User in Cisco Unified Communications Manager

In this task, you create an AXL API user for Cisco Unified MeetingPlace to access the Cisco Unified Communications Manager AXL database for user authentication.

Before You Begin

- If either of the following statements are true, you may skip this task and proceed to [How to Configure the End User PIN in Cisco Unified Communications Manager](#):
 - ◆ You already have an AXL API user in the Cisco Unified Communications Manager that you want to use for Cisco Unified MeetingPlace Directory Service.
 - ◆ Instead of using an application user with standard AXL API access privileges in Cisco Unified Communications Manager, you would rather use the default administrator user, whose username and password is defined during Cisco Unified Communications Manager installation.

Note: If you choose to use the default administrator user, you will need to update the [AXL username](#) or [AXL password](#) in Cisco Unified MeetingPlace whenever the Cisco Unified Communications Manager administrator username or password gets modified.
- Complete [Configuring LDAP Authentication for Cisco Unified Communications Manager](#).
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Procedure

1. Log in to Cisco Unified Communications Manager Administration:
 1. Go to **http://<ccm-server>/ccmadmin/**, where *<ccm-server>* is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
 2. Log in with your Cisco Unified Communications Manager administrator username and password.
2. Click **User Management > Application User**.
3. Click **Add New**.
4. Configure a **User ID**, such as mpdsaxl.
5. Configure the **Password** and **Confirm Password** fields.
6. Click **Add to User Group**.
7. Find the **Standard CCM Super Users** group.
8. Check the Standard CCM Super Users group.
9. Click **Add Selected**.
10. Click **Save**.

What to Do Next

Proceed to [How to Configure the End User PIN in Cisco Unified Communications Manager](#).

How to Configure the End-User PIN in Cisco Unified Communications Manager

The end-user PIN in Cisco Unified Communications Manager is equivalent to the [Profile password](#) in Cisco Unified MeetingPlace.

Directory Service users cannot log in to Cisco Unified MeetingPlace over the phone until the end-user PIN is changed through the Cisco Unified Communications Manager user page.

Configuring the Credential Policy Default in Cisco Unified Communications Manager 6.x

This task enables Directory Service users to log in to Cisco Unified MeetingPlace over the phone.

Before You Begin

- This task applies only to Cisco Unified Communications Manager 6.x and later releases. If you are using Cisco Unified Communications Manager 5.x, you must configure the end user PINs individually. See [Configuring the End User PIN in Cisco Unified Communications Manager](#).
- Complete [Creating an Application User in Cisco Unified Communications Manager](#).
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release. For details about any field, click **Help > This Page**.

Procedure

1. Go to <http://<ccm-server>/ccmadmin/>, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **User Management > Credential Policy Default**.
4. Click **Default Credential Policy** for the End User PIN.

5. Enter the default PIN in the **Change Credential** and **Confirm Credential** fields.
6. To prevent toll fraud, we recommend that you check **User Must Change at Next Login**.
7. Click **Save**.

Note: If this setting is set, each individual will user have to go into <http://CUCM-ipaddress/ccmuser> and change their password. The user must in the "CCM User group" on cucm to access this page.

What to Do Next

If you want to configure individual end user PINs, proceed to [Configuring the End User PIN in Cisco Unified Communications Manager](#).

Otherwise, proceed to [How to Configure Cisco Unified MeetingPlace for Directory Service](#).

Configuring the End User PIN in Cisco Unified Communications Manager

This task enables Directory Service users to log in to Cisco Unified MeetingPlace over the phone if a default credential policy is not in place.

Before You Begin

- Complete [Creating an Application User in Cisco Unified Communications Manager](#)
- If you are using Cisco Unified Communications Manager 6.x, complete [Configuring the Credential Policy Default in Cisco Unified Communications Manager 6.x](#).
- You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release. For details about each field, click **Help > This Page**.

Procedure

1. Go to **http://<ccm-server>/ccmadmin/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **User Management > End User**.
4. Click **Find**.
5. Click the User ID.
6. Configure the **PIN** and **Confirm PIN** fields.
7. If you configured a PIN that may be accessed or guessed by someone other than the intended user, then we recommend completing the following steps to prevent toll fraud:

1. Click **Edit Credential**.
2. Check **User Must Change at Next Login**.
3. Click **Save**.
8. Click **Save**.
9. Repeat [Step 5](#) through [Step 8](#) for each user.

What to Do Next

Proceed to [How to Configure Cisco Unified MeetingPlace for Directory Service](#).

Viewing the Department Number for Users in Cisco Unified Communications Manager

If you plan to configure Directory Service filters to user groups, then perform this task to obtain the department numbers for your users.

Before You Begin

You perform this task in the Cisco Unified Communications Manager Administration pages. Because the pages and menus vary by release, you should check the Cisco Unified Communications Manager Administration online help for step-by-step instructions that are specific to your release.

Restrictions

If Cisco Unified Communications Manager uses LDAP directory integration, then you cannot modify the department number for users in Cisco Unified Communications Manager.

Procedure

1. Go to **http://<ccm-server>/ccmadmin/**, where <ccm-server> is the fully-qualified domain name or IP address of the Cisco Unified Communications Manager server.
2. Log in with your Cisco Unified Communications Manager administrator username and password.
3. Click **User Management > End User**.
4. Click **Find**.
5. Look for the numbers in the **Department** column.
6. (Optional) Click the **Department** column title to sort user entries by department number.
7. (Optional) In the **Rows per Page** field, select a larger number of entries to display.
8. Use the navigation buttons in the bottom right corner to view more pages of user entries.

What To Do Next

Proceed to [Configuring Directory Service Filters for User Groups](#).