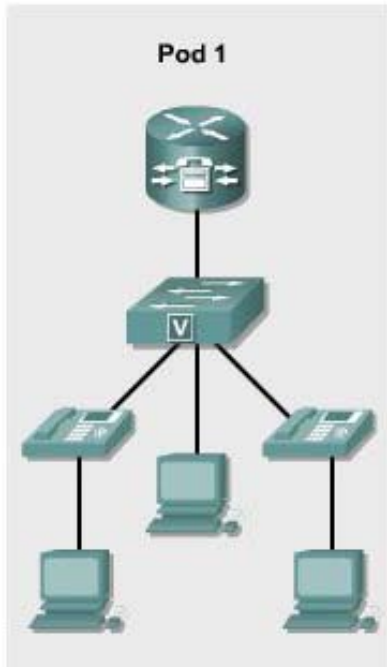


Lab 5.1.7 Configure the Intercom Feature



Objective

- Configure an intercom between the two IP phones

Equipment Requirements

- Cisco CallManager Express (CME) capable router
- Inline power capable switch or non-inline power switch with power injectors
- Workstation with an Ethernet 10/100 NIC installed
- Two Cisco IP phones

This lab relies on labs 2.1.1, 2.1.3, 3.1.1, and 5.1.1 being successfully completed.

In this lab the ACME.com Company wishes to configure an intercom between the CEO and the corresponding administrative assistant. No one else in the company should be able to dial this intercom.

- Configure an intercom between two IP phones
- Test that the intercom works

Step 1 Configure the Intercom

- a. Ensure the two IP phones can connect to one another before this lab begins. Troubleshoot as necessary.
- b. Access the CME router using the Web-based GUI configuration method. Login as the system administrator (username **ACMEadmin** password **cisco**). Point to the **Configure** menu option and select the **Extensions** option.
- c. Click on the **Add** link. In the Extension Number: textbox, type **D3333**. Select a Sequence number from the drop-down box. This number will be the ephone-dn (directory number) shown in the router configuration. The sequence number must be unique.
- d. What sequence number was selected for the D3333 extension? _____
This number will be used later in the configuration.
- e. In the Extension Type drop-down menu, select **Intercom**. Type **Intercom** for the name of the Intercom in the Name: textbox. In the first Label: textbox, type **Intercom**. In the Intercom Number: textbox, type **D4444**.
- f. Click on the **Add** button to add this extension. When prompted to save the changes, click on the **OK** button. A message appears that the extension was added; click **OK**. When prompted to add the new extension to the new phone, click on the **OK** button. When the message appears that there is no new phone to add or that there is no free sequence number, click **OK**.
- g. Add a second new extension using the same method. Set the extension number to **D4444** with a unique sequence number, an extension type of **Intercom**, a name of **Intercom**, a label of **Intercom**, an intercom number of **D3333**, and all other settings left at default. Save these changes.
- h. What sequence number was chosen for the D444 extension? _____
This number will be used in the next part of the configuration.
- i. Point to the **Configure** menu option and select the **Phones** option. Click on the MAC address of the first IP phone. The MAC address is located in the Phone Physical ID column.
- j. Go to the Speed Dial Information section and delete any speed dials located there. This is done in case the phone has only two buttons. Even if the phone has multiple buttons, future labs are not affected.
- k. In the Phone Line Buttons section, select an unused button by clicking on the button number link located in the Button column.
- l. Locate the D3333 Intercom option and click in the checkbox beside the sequence number.
- m. Click on the **Save** link at the top of the window. Click on the **Change** button at the bottom of the window. Respond to the next two messages by clicking on **OK**. The IP phone should reboot.
- n. What indication does the first IP phone give that this configuration was made successfully?

- o. Select the MAC address of the second IP phone. Delete any speed dials. Select a free phone line button number link. Locate the D4444 Intercom option and click in the checkbox beside the sequence number. Click on the **Save** link at the top of the window. Click on the **Change** button. Respond to the next two messages by clicking on **OK**. The IP phone should reboot.

Step 2 Test the Intercom Configuration

- a. Once the second IP phone has rebooted and the Intercom option appears beside one of the phone buttons on the second IP phone, press the button that corresponds to the word Intercom. Speak some words out loud.
- b. What indication are there that the Intercom works from the second IP phone? _____

Note that if the intercom does not work properly, troubleshoot at necessary until it does.

- c. Press the Speaker button on either IP phone to disconnect the Intercom.
- d. From the first IP phone, test the intercom function and ensure it works.
- e. Does the first IP phone intercom work properly? If not, troubleshoot as necessary. _____
- f. Access the router CLI. From the privileged exec mode, use the command **show running-config | begin tele** command to view the changes.

```
CMERouterX# show running-config | begin tele
```

- g. What settings changed under the ephone-dn and ephone sections?

- h. Save the router configuration.