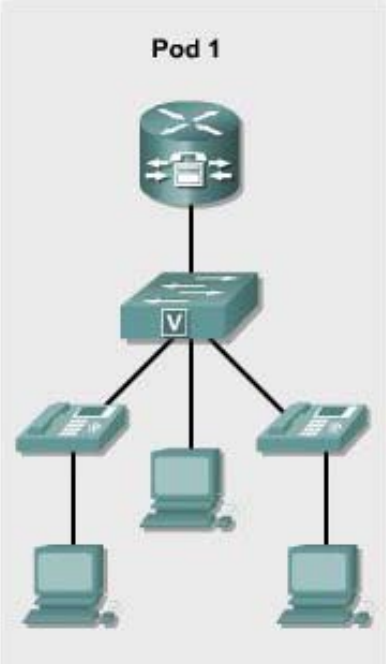
Lab 5.1.8 Configuring a Dialable Intercom



Objective

- Configure an intercom that can be accessed from an outside line

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
- One analog phone

This lab relies on labs 2.1.1, 2.1.3, 3.1.1, and 4.1.1 being successfully completed. Reference IP Telephony Tables 1 and 2 for extension numbers.

In this lab the ACME.com Company wishes to configure an intercom to the receptionist at the front desk that anyone in the enterprise can dial.

- Configure a second intercom on the two IP phones
- Test that the intercom works and that the analog phone can access the intercom

Step 1 Configure the dialable intercom

a. Ensure that the two IP phones can call one another and that the analog phone can successfully dial either IP phone. Troubleshoot as necessary before proceeding.

b. Use the command **show running-config | begin tele** command to view part of the current configuration. Verify that two IP phones have registered, and the MAC addresses used by the two phones are shown in the configuration output.

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

c. What are the MAC addresses for the two IP phones? _____

_____

d. From a workstation connected to an IP phone (that can ping all router IP addresses), access the CME using a Web interface by typing **http://10.X0.0.1/ccme.html** (where ***X*** is the pod number). When prompted for a username and password use **ACMEadmin** and **cisco**.

e. Click on the **Configure** menu option and select **Phones**.

f. Locate both of the MAC addresses of the IP phones. Write the MAC address and its associated Primary Line Number based on the information seen on the Web interface.

MAC Address	Primary Line Number

g. Click on the **Configure** menu option and select the **Extensions**.

h. Click on the Add link and set the Extension Number to **XXXX** (where ***X*** is the pod number). An example of an extension number for Pod 1 is 1111. Select an unused Sequence Number. Select an Extension Type of **Intercom** from the drop-down menu. Type a name of **Dialable Intercom**. Type a label of **Dialable Intercom** in the Label field. The Intercom Number will be set to **XXX0** (where ***X*** is the pod number). All other settings are left to the default.

i. The sequence number for this phone will be used in a future step. What sequence number was selected? _____

j. Click on the **Add** button. When prompted if the changes are to be saved, click on **OK**. A confirmation message appears. Click **OK**. When prompted if the next extension is to be added to a new phone, click **OK**. When the No new phone to add or no sequence number message appears, click **OK**.

k. Click on the **Add** link and set the Extension Number to **XXX0** (where ***X*** is the pod number). An example of an extension number for Pod 1 is 1111. Select an unused Sequence Number. Select an Extension Type of **Intercom** from the drop-down menu. Type a name of **Dialable Intercom**. Type a label of **Dialable Intercom** in the Label field. The Intercom Number will be set to **XXXX** (where ***X*** is the pod number). All other settings are left to the default.

l. The sequence number for this phone will be used in a future step. What sequence number was selected? _____

m. Click on the **Add** button. When prompted if the changes are to be saved, click on **OK**. A confirmation message appears. Click **OK**. When prompted if the next extension is to be added to a new phone, click **OK**. When the No new phone to add or no sequence number message appears, click **OK**.

n. The sequence number is what creates the ephone-dn (directory number). From a command prompt, look at the router configuration and see how there are two new ephone-dn entries. Each new entry has a number using the sequence number. From the web interface, click on the **Configuration** menu option and select **Phones**. Select one of the IP phone MAC addresses for one that is being used. Click on a button number. If a checkmark is beside one of the sequence numbers, click on the checkbox to remove the checkmark. Click in the checkbox beside one of the new sequence numbers.

o. What sequence number was chosen in the previous step? _____

p. Click on the **Save** link located at the top of the page. Click on the **Change** button located at the bottom of the page. When prompted if the changes are to be saved, click on the **OK** button. A confirmation message appears; click on **OK**.

q. Select the other IP phone MAC address that is being used. Click on a button number. If a checkmark is beside one of the sequence numbers, click on the checkbox to remove the checkmark. Click in the checkbox beside one of the other new sequence number (the one NOT used in the previous step).

r. Click on the **Save** link located at the top of the page. Click on the **Change** button located at the bottom of the page. When prompted if the changes are to be saved, click on the **OK** button. A confirmation message appears; click on **OK**.

s. Verify that the intercom connects in both directions on the IP phones. If the Dialable Intercom does not work in both directions, troubleshoot as necessary.

t. Using the analog phone dial both **XXX0** and **XXXX** (where **X** is the pod number). Note the intercom works even through an analog phone connection.

u. From privileged exec mode, use the command **show running-config | begin tele** command to view the changes.

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

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

_____
_____
_____
_____
_____
_____

