Application Note

Provisioning Cisco® Unified Communications Manager (CallManager) for the Bose ControlSpace EX-1280C conferencing processor

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Summary

This application note describes the basic configuration steps required to integrate the Bose ControlSpace EX-1280C processor with Cisco Unified Communications Manager (CallManager) platform. Depending on the already configured CallManager, other steps might be required.

Overview

The Bose ControlSpace EX-1280C processor behaves as a third-party Session Initiation Protocol (SIP) device. It makes outbound calls and receives incoming calls. Two dedicated VoIP lines can be supported. Review the project requirements with your AV contractor or consultant to determine the number of lines needed.
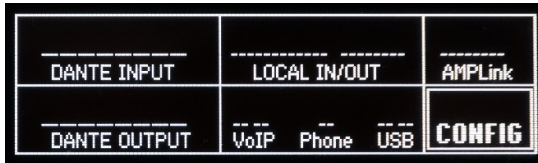
Required Software:

    Cisco CallManager: Version **10.5.2.11900-3**

    Bose ControlSpace Designer: Version **5.1** or higher

Configuring Cisco Unified Communications Manager (CallManager)

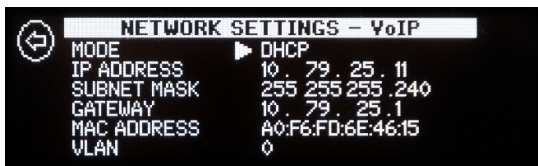## Documenting the VoIP MAC address

1. On the Bose EX-1280C, turn the **rotary knob** to select **CONFIG**, and then press the **rotary knob** to enter its menu.

2. Turn the **rotary knob** to select **VoIP NETW SETTINGS**, and then press the **rotary knob** to show the settings.
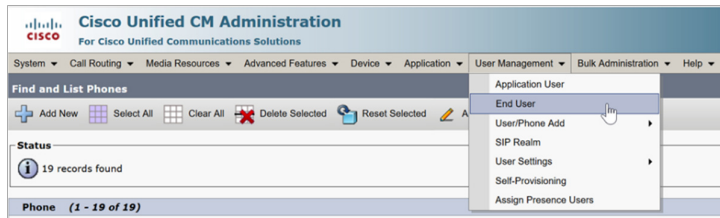

3. Document the **MAC ADDRESS** (e.g., A0:F6:FD:6E:46:15).

Adding Users to CallManager

1. Sign into CallManager with your administration credentials.

2. Click **Call Routing**, and then click **Route Plan Report**.

3. Find one or two numbers that are not in use, and document them (e.g., 314510, 314511).

4. Click the **User Management** menu, and then click **End User**.

5. Click **Add New**.

6. In **End User Configuration**, under **User Information**, populate the following fields for the information that you documented in **Step 3**:

User ID	Enter the user number (e.g., 314510).
Password	Enter a password.
Confirm Password	Enter the same password.
Self Service User ID	Enter the self-service user number (e.g., 314510).
PIN	Enter a PIN.
Confirm PIN	Enter the same PIN.
Last Name	Enter a name (e.g., Conferencing).
Telephone Number	Enter the user number (e.g., 314510).

End User Configuration

💾 Save   ❌ Delete   ➕ Add New

User Information

User Status	Enabled Local User
User ID*	314510
Password	●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● **Edit Credential**
Confirm Password	●●●●●●●●●●●●●●●●●●●●●●●●●●●●
Self-Service User ID	314510
PIN	●●●●●●●●●●●●●●●●●●●●●●●●●●●● **Edit Credential**
Confirm PIN	●●●●●●●●●●●●●●●●●●●●●●●●●●●●
Last name*	Conferencing
Middle name	
First name	
Title	
Directory URI	
Telephone Number	314510
Home Number	
Mobile Number	
Pager Number	
Mail ID	
Manager User ID	
Department	
User Locale	Nederlands, Koninkrijk der Nederlanden
Associated PC	
Digest Credentials	●●●●●●●●●●●●●●●●●●●●●●●●●●●●
Confirm Digest Credentials	●●●●●●●●●●●●●●●●●●●●●●●●●●●●
User Profile	Use System Default("Standard (Factory Default) Us View Details

7. Click **Save**.

8. Repeat **Steps 4–7** to enter a second line.

9. Scroll down to the **Permission Information** section.

10. Click **Add to Access Control Group**.
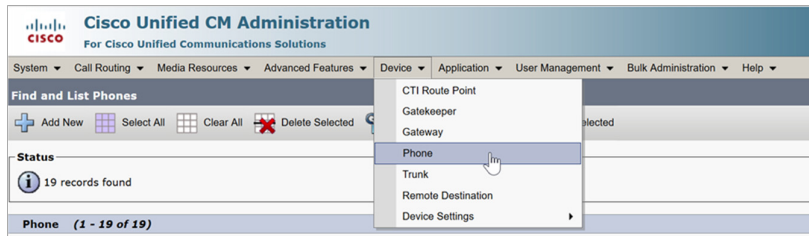
11. Click **Find**.

12. Select **Standard CCM Admin Users** and **Standard CCM End Users**.

13. Click **Add Selected**.

14. Click **Save**.

Adding a SIP Device in CallManager

1. Click the **Device** menu, and then click **Phone**.

2. In the **Create a phone using the phone type or a phone template** section, click **Phone Type** to select it.

3. Click the menu next to **Phone Type**, and then select **Third-party SIP Device (Basic)**.

4. Click **Next**.

5. In the **Device Information**, populate the fields with the following information:

MAC Address	Documented in **Documenting the VoIP MAC address, Step 3**.
Description	**SEP** followed by the MAC address (e.g., SEPA0F6FD6E4615).
Device Pool*	Provided by the IT specialist.
Phone Button Template	Select **Third-party SIP device (Basic)**.
Common Phone Profile*	Provided by the IT specialist.
Owner	Select **Anonymous (Public/Shared Space)**.

6. Click **Save**.

7. Scroll down to the **Protocol Specific Information** section.

8. Click the following menus to select the following options:

Device Security Profile*   Select **Third-party SIP Device (Basic) - Digest Required**

SIP Profile*   Select **Standard SIP Profile**.

Digest User   Click **Find** next to the menu, and then select **User ID** in the search drop-down menu. Select **Begin with**, and then enter the user number (e.g., 314510).

9. Click **Save**.

Adding Directory Numbers to SIP Service

1. On the left side of the **Phone Configuration** window, in the **Association** section, click **Line [1] - Add a new DN**.

2. In the **Directory Number Information** section, populate the fields with the following information:

Directory number*	Enter the user number (e.g., 314510).
Urgent Priority	Click this box to select it.
Route Partition	Provided by the IT specialist.
Description	Enter the user number (e.g., 314510).
Alerting Name	Enter the user number (e.g., 314510).
ASCII Alerting Name	Enter the user number (e.g., 314510).
Calling Search Space	Provided by the IT specialist.

3. Scroll down to the **Line 1 on Device** section, and populate the fields with the following information:

        Display (Caller ID)   Enter the user number (e.g., 314510).

        ASCII Display (Caller ID)   Enter the user number (e.g., 314510).

        External Phone Number Mask   Provided by the IT specialist.

4. Scroll down to the **Users Associated with Line** section.
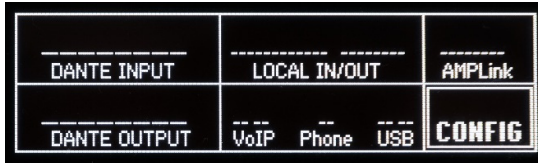

5. Click the box next to the user number (e.g., 314510) to select it.

6. Click **Associate End Users**.

7. Click **Save**.

8. Repeat **Steps 1–7** to add a second line.

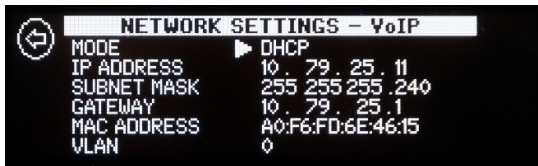## Configuring the Bose ControlSpace EX-1280C

1. Turn the **rotary knob** to select **CONFIG**, and then press the **rotary knob** to enter its menu.
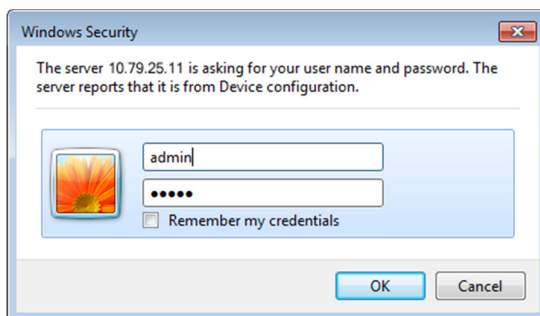

2. Turn the **rotary knob** to select **VoIP NETW SETTINGS**, and then press the **rotary knob** to enter its menu.

3. Document the **IP ADDRESS** (e.g., 10.79.25.11).

4. Enter the IP address from **Step 3** into a web browser and press **Enter**.

5. If a **Windows Security** notification appears, enter the administrator username and password, and then click **OK**. (The default username and password are **admin**.)

6. Click the **Accounts** tab.

7. In the **General** tab, populate the fields with the following information:

Account Name	Enter the user number (e.g., 314510).
Display Name	Enter the name to be displayed (e.g., Room A).
Username/Number	Enter the user number (e.g., 314510).
Domain	Provide by the IT specialist.
Register with domain	Click this box to select it.
Password	Enter the password.

8. Click **Save changes**.

9. Click **Restart SIP Service**. The SIP service will restart and will try to register the new account.

10. Click the **Topology** tab.

11. Depending on the CallManager settings, click **TCP** or **UDP** to set the **SIP Transport Mode**, and enter **5060** in the **Local Port** field.

12. Click the **QoS** tab, and populate its fields. This information needs to be provided by the IT specialist.

13. Click the **Advanced** tab, and populate the fields with the following information:

Auth Username	Enter the user number (e.g., 314510).
Proxy	Provided by the IT specialist.
Proxy Port	Enter the **Local Port** number from **Step 11**.
Registration Lifetime	Enter the registration lifetime in **seconds**.

14. Click **Save changes**.

15. Follow **Steps 6–15** to create a second account, but during **Step 11**, enter **5061** in the **Local Port** field.

16. Click the **Audio** tab.

17. In the **Available** list, click your desired codecs, and then click **Enable**.