

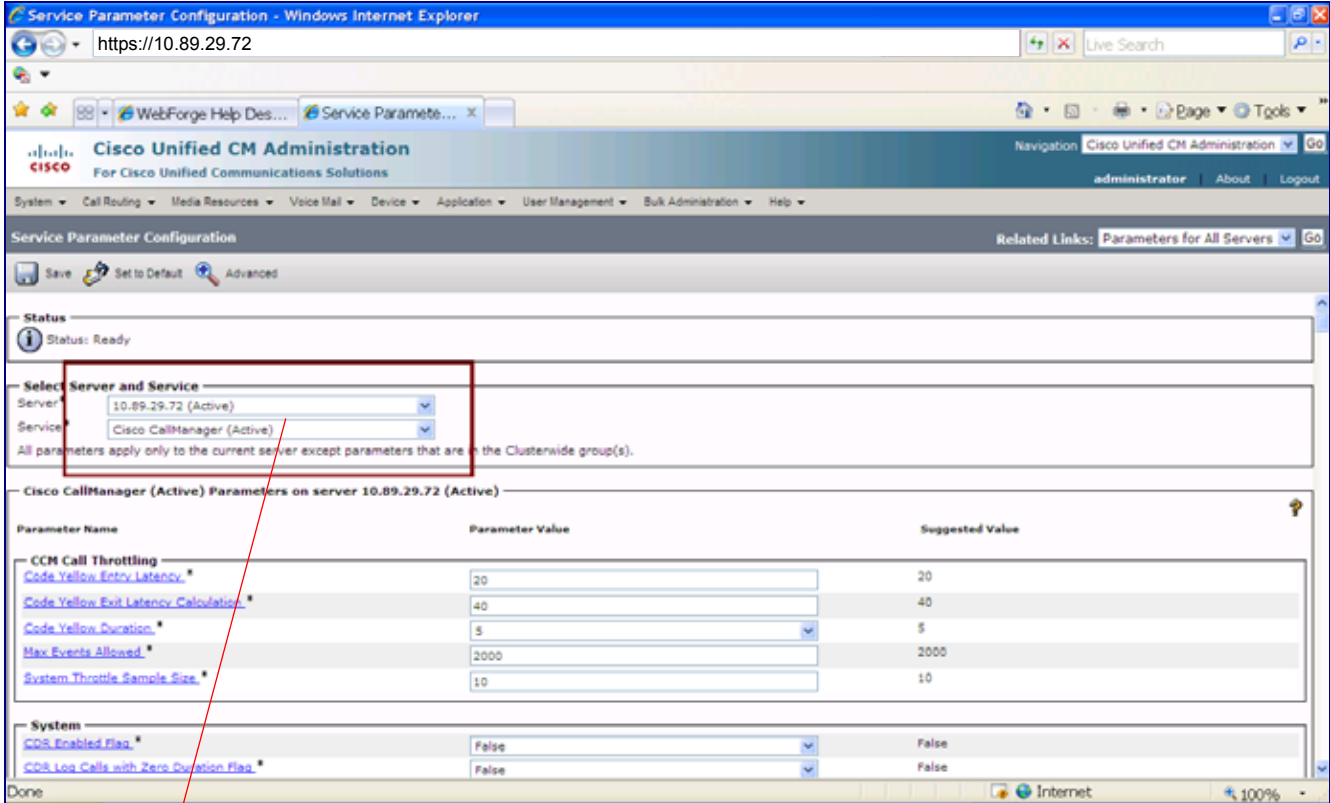


# Connecting to Cisco Call Manager as SIP Endpoint

## Quick Installation Guide

To connect CyberData SIP endpoints to Cisco Call Manager 5.x, 6.x, and 7.x, please use the settings indicated in [Figure 1](#).

Figure 1. Settings

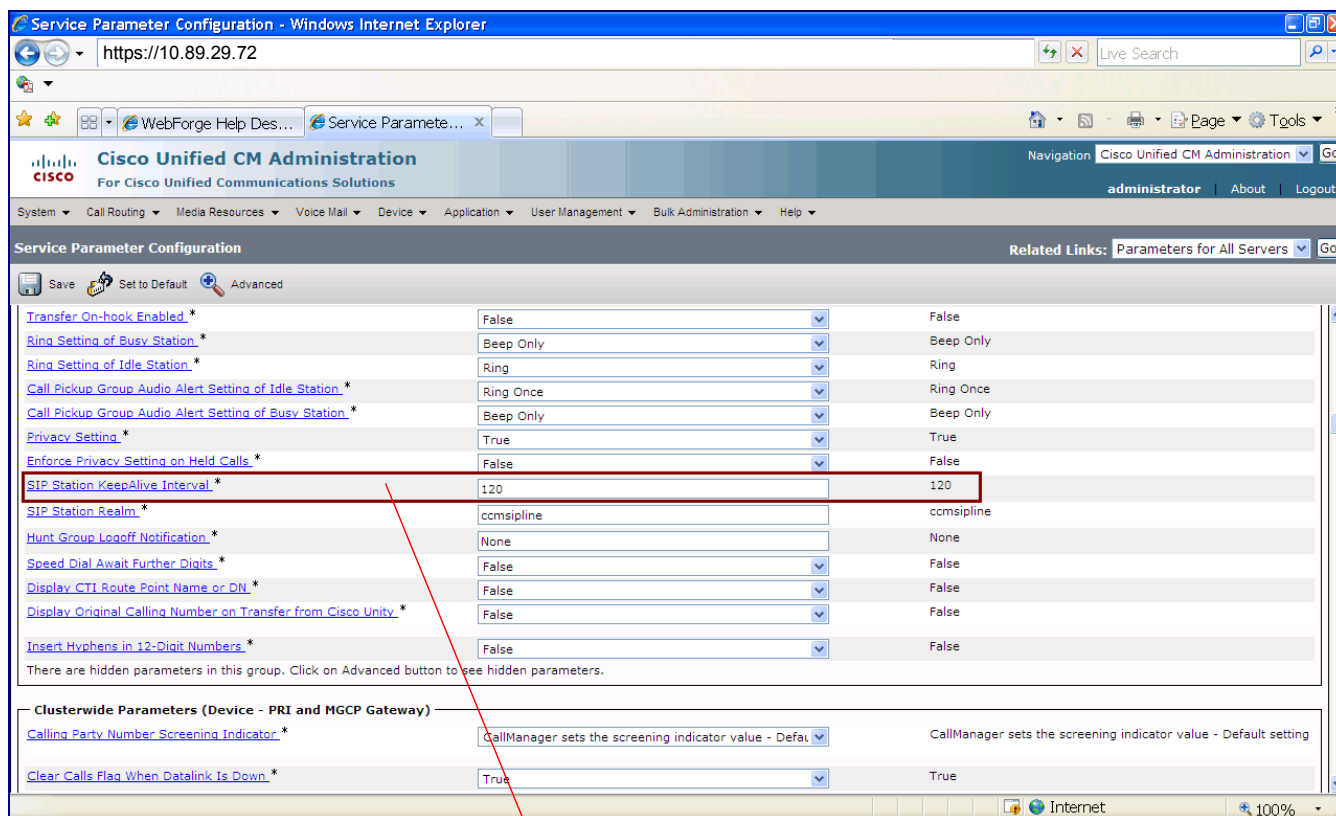


Settings

CyberData endpoints now support the optional **SIP-Notify** messages used by Cisco to check the status of SIP endpoints on their network. This status is activated in the **Keep Alive** parameter on Cisco Call Manager (see [Figure 2](#) on the next page), and should be set to match the SIP registration time value in the **SIP Setup** web configuration page for the CyberData device (see [Figure 3](#)).

**Note** Cisco does charge a licensing fee in some instances for SIP endpoints, so please make sure you have licenses available for CyberData SIP speakers, or use our Paging server product as a single SIP endpoint on Cisco Call Manager that multicasts to our speakers so the speaker does not have to take up a SIP license.

Figure 2. Keep Alive Parameter on CCM



SIP Station **Keep Alive** Interval

Figure 3. SIP Setup Web Configuration Page

CyberData Corporation  
**VOIP PAGING SERVER**

### SIP Setup

SIP Server :  \*

Remote SIP Port:  \*

Local SIP Port:  \*

SIP User ID:  \*

Authenticate ID:  \*

Authenticate Password:  \*

SIP Registration:  Yes  No \*

Unregister on Reboot:  Yes  No \*

**Register Expiration (minutes):**  \*

*\* changing this parameter causes system reboot when saved*

[Save Settings](#)

[Network Setup](#) [Admin Settings](#) [PGROUPS Setup](#) [Upgrade Firmware](#) [Home Page](#)

Internet

SIP Station **Keep Alive** Interval

Password for User

Cisco User ID

Cisco Directory Number

## Configuration Examples

Figure 4 through Figure 7 are an example of how to configure the Cisco Call Manager.

Figure 4. Phone Configuration

The screenshot displays the Cisco Unified CM Administration interface for configuring a phone. The browser window title is "Phone Configuration - Mozilla Firefox" and the address bar shows "https://10.89.29.72". The page header includes "Cisco Unified CM Administration" and "For Cisco Unified Communications Solutions". The navigation menu includes "System", "Call Routing", "Media Resources", "Voice Mail", "Device", "Application", "User Management", "Bulk Administration", and "Help". The main content area is titled "Phone Configuration" and includes a "Status: Ready" indicator. The configuration is organized into several sections:

- Association Information:** Shows a list of lines, including "Line [1] - 694 in SacramentoPaging" and "Line [2] - Add a new DN".
- Phone Type:** Product Type is "Third-party SIP Device (Basic)" and Device Protocol is "SIP".
- Device Information:**
  - Registration: Registered with Cisco Unified Communications Manager 10.115.35.11
  - IP Address: 10.115.37.121
  - MAC Address\*: 0020F7500BCB
  - Description: VoIP Paging Server
  - Device Pool\*: ASC-Sacramento
  - Common Device Configuration: ASC Sacramento
  - Phone Button Template\*: Third-party SIP Device (Basic)
  - Common Phone Profile\*: Standard Common Phone Profile
  - Calling Search Space: < None >
  - AAR Calling Search Space: < None >
  - Media Resource Group List: ASC-Sacramento-MRGL
  - Location\*: ASC-Sacramento
  - AAR Group: < None >
  - Device Mobility Mode\*: Default
  - Owner User ID: PagingServer
  - Is Active:
  - Ignore Presentation Indicators (internal calls only):
  - Logged Into Hunt Group:
  - Remote Device:
- Protocol Specific Information:**
  - Presence Group\*: Standard Presence group
  - MTP Preferred Originating Codec: 711ulaw
  - Device Security Profile\*: Third-party SIP Device Basic - Standard SIP Non-S...
  - Rerouting Calling Search Space: < None >
  - SUBSCRIBE Calling Search Space: Sacramento-CSS
  - SIP Profile\*: VoIP Paging SIP Profile
  - Digest User: PagingServer
  - Media Termination Point Required:
  - Unattended Port:
  - Require DTMF Reception:

Media Termination Point Required

**Note** Notice that **Media Termination Point Required** is checked. This keeps it from going to fast busy when you call it.

Figure 5. End User Configuration Page

The screenshot shows the Cisco Unified CM Administration interface. The page title is "End User Configuration". The user being configured is "PagingServer". The status is "Ready". The "User Information" section includes fields for User ID, Password, Confirm Password, PIN, Confirm PIN, Last name, Middle name, First name, Telephone Number, Mail ID, and Manager User ID. The "PagingServer" user ID and the corresponding password and confirm password fields are highlighted with a red box. There are "Edit Credential" buttons next to the password and PIN fields.

Figure 6. End User Configuration Page

The screenshot shows the "Device Associations" section of the End User Configuration page. The "Controlled Devices" field is highlighted with a red box and contains the value "SEP0020F7500BCB". A red arrow points from this box to the text "Cisco identifier attached to the user" located below the screenshot. There is a "Device Association" button next to the field. The "Extension Mobility" section below includes fields for "Available Profiles" and "Controlled Profiles".

Cisco identifier attached to the user

Figure 7. End User Configuration Page

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**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration Go

administrator | About | Logout

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

**End User Configuration** Related Links: **Back to Find List Users** Go

Save  Delete  Add New

Default Profile -- Not Selected -- ▾

Presence Group\* Standard Presence group ▾

SUBSCRIBE Calling Search Space < None > ▾

Allow Control of Device from CTI

**Directory Number Associations**

Primary Extension **694** ▾

**Mobility Information**

Enable Mobility

Primary User Device < None > ▾

Enable Mobile Voice Access

Maximum Wait Time for Desk Pickup\* 10000

Remote Destination Limit\* 4

Remote Destination Profiles

Primary Extension drop-down menu

**Note** For a more detailed guide to setting up CyberData devices on Cisco Call Manager 5.x, 6.x, or 7.x, please see the VoIP Intercom and *Cisco Call Manager Server Setup Guide* available in the **Support** area of our website ([www.CyberData.net](http://www.CyberData.net)).