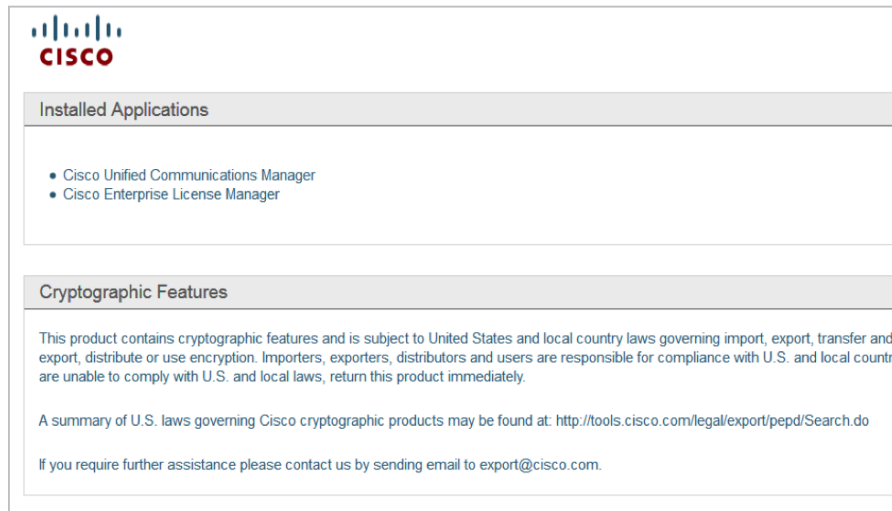


## Setting up Symetrix 2 Line VoIP Interface for use with Cisco Unified Communications Manager

This guide provides the detailed steps required to both create an account on a Cisco CUCM v9.x and to register a Symetrix 2 Line VoIP Interface card to the CUCM.

### Navigating to the CUCM

1. Enter in the IP address of the server into a browser's address bar and press Enter (example: 10.4.0.50)
2. Click on Cisco Unified Communications Manager
3. Type in your Username and Password and select Login.



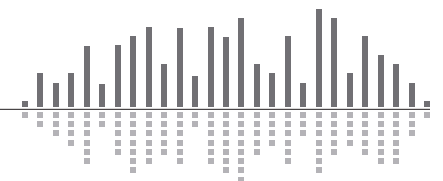
### Preparing the CUCM

**Note:** All fields marked with an "\*" in CUCM are required for proper setup, some of these fields are set by default

The steps to create a user account and the related phone information are described next.

### 1) Create a Phone Security Profile

- a. Select System>Security>Phone Security Profile
- b. Click Add New
- c. Under Phone Security Profile Type select Third-party SIP Device (Advanced) and select Next (Basic – single line device)
  - i. Enter the Security Profile Name under "Name\*" (Symetrix VoIP UDP, in this example)
  - ii. Select the desired Transport Type (UDP in this example)
  - iii. Check Enable Digest Authentication (we recommend using authentication credentials)
- d. Click Save.



## 2) Create an End User

- a. Select User Management>>End User
- b. Click Add
  - i. Create User ID (Symetrix, in this example)
  - ii. Last Name (Inc. in this example)
  - iii. Digest Credentials (used for authentication) (12345 in this example)
- c. Click Save

**End User Configuration**

Save

**Status**  
i Status: Ready

**User Information**

<b>User Status</b>	Active Local User
<b>User ID*</b>	Symetrix
<b>Password</b>	<input type="text"/>
<b>Confirm Password</b>	<input type="text"/>
<b>PIN</b>	<input type="text"/>
<b>Confirm PIN</b>	<input type="text"/>
<b>Last name*</b>	Inc.
<b>Middle name</b>	<input type="text"/>
<b>First name</b>	<input type="text"/>
<b>Directory URI</b>	<input type="text"/>
<b>Telephone Number</b>	<input type="text"/>
<b>Mail ID</b>	<input type="text"/>
<b>Manager User ID</b>	<input type="text"/>
<b>Department</b>	<input type="text"/>
<b>User Locale</b>	< None >
<b>Associated PC</b>	<input type="text"/>
<b>Digest Credentials</b>	.....
<b>Confirm Digest Credentials</b>	.....

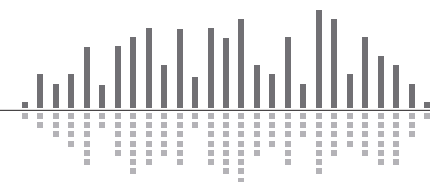
## 3) Create a Phone

- a. Select Device>Phone
- b. Click Add New
- c. From Phone Type, Select Third-party SIP Device (Advanced) and then click Next
- d. Device Information box
  - i. Enter the MAC Address of the Symetrix 2 Line VoIP Interface card, and description (optional, will default to SEP+MAC Address if left blank)
  - ii. Device Pool = Default
  - iii. Phone Button Template = Third-party SIP Device (Advanced)
- e. Protocol Specific Information box
  - i. Device Security Profile = Name of security profile created in step 1)
  - ii. SIP Profile = Standard SIP Profile
  - iii. Digest User = End User Created in step 2)
- f. Click Save

**Device Information**

Registration	Unknown
IP Address	Unknown
<input checked="" type="checkbox"/> Device is Active	
Device is not trusted	
<b>MAC Address*</b>	000CD000C38B
<b>Description</b>	Symetrix 2 Line VoIP Interface
<b>Device Pool*</b>	Default <a href="#">View Details</a>
<b>Common Device Configuration</b>	< None > <a href="#">View Details</a>
<b>Phone Button Template*</b>	Third-party SIP Device (Advanced)
<b>Common Phone Profile*</b>	Standard Common Phone Profile
<b>Calling Search Space</b>	< None >
<b>AAR Calling Search Space</b>	< None >
<b>Media Resource Group List</b>	< None >
<b>Location*</b>	Hub_None
<b>AAR Group</b>	< None >
<b>Device Mobility Mode*</b>	Default <a href="#">View Current Device Mobility Settings</a>
<b>Owner User ID</b>	< None >
<b>Use Trusted Relay Point*</b>	Default
<b>Always Use Prime Line*</b>	Default
<b>Always Use Prime Line for Voice Message*</b>	Default
<b>Geolocation</b>	< None >

Retry Video Call as Audio  
 Ignore Presentation Indicators (internal calls only)  
 Logged Into Hunt Group  
 Remote Device



**Protocol Specific Information**

BLF Presence Group\*

MTP Preferred Originating Codec\*

Device Security Profile\*

Rerouting Calling Search Space

SUBSCRIBE Calling Search Space

SIP Profile\*

Digest User

Media Termination Point Required

Unattended Port

Require DTMF Reception

Allow Presentation Sharing using BFCP

Allow iX Applicable Media

#### 4) Setup Directory Numbers (DN) for the device (this is the extension number)

- a. Click on Line [1] – Add a new DN link on left of page
- b. Directory Number Information box
  - i. Enter a Directory Number (311 in this example)
  - ii. Enter an Alerting Name (Note: ASCII Alerting Name field will auto fill when this is entered)
- c. Line 1 on Device (description given previously) box (Optional)
  - i. Enter Display (Caller ID) (Note: ASCII Display (Caller ID) field will auto fill when this is entered)
- d. Click Save
- e. Click GO next to “Related Links: Configure Device (description given previously) to return to the Phone Configuration page
- f. Click on Line [2] – Add a new DN link and follow steps b through e above to register the second line on the Symetrix 2 Line VoIP Interface card.
- g. Click Save

**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Active

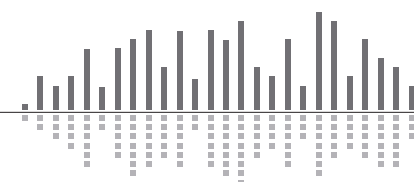
**Line 1 on Device SEP000CD000C38B**

Display (Caller ID)

ASCII Display (Caller ID)

External Phone Number Mask

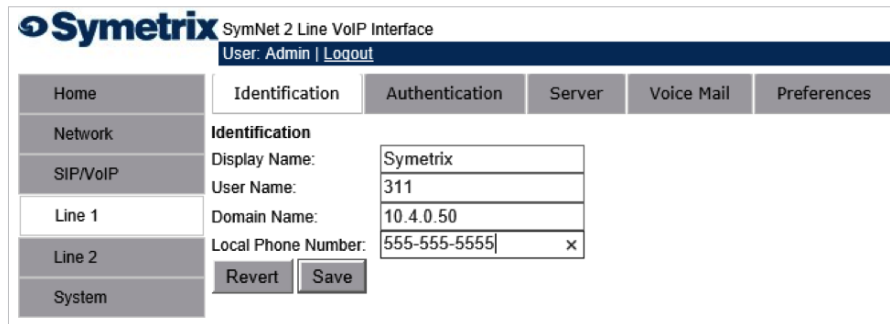
Monitoring Calling Search Space



## Registering the Symetrix 2 Line VoIP Interface

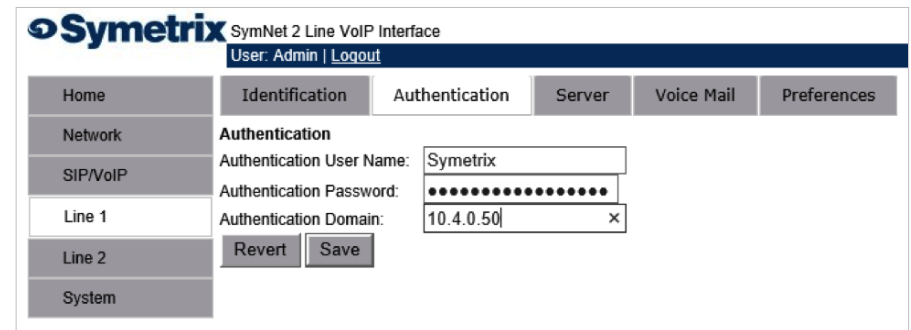
Now that the Cisco CUCM is ready for the Symetrix 2 Line VoIP Interface card, it is time to put the appropriate CUCM credentials into the Symetrix Web Admin tool.

- 1) Setting up Line 1
  - a. Identification tab
    - i. Display Name (any display name you want)
    - ii. User Name (this will be the Directory Number for one of the lines created in CUCM, 311 in this example)
    - iii. Domain Name (type server IP address, 10.4.0.50 in this example)
    - iv. Local Phone Number (This is the number which a far end would dial to call the card)



The screenshot shows the Symetrix web admin interface for the SymNet 2 Line VoIP Interface. The 'Identification' tab is selected for Line 1. The form fields are: Display Name: Symetrix, User Name: 311, Domain Name: 10.4.0.50, and Local Phone Number: 555-555-5555. There are 'Revert' and 'Save' buttons at the bottom.

- b. Authentication tab
  - i. Authentication User Name = this will be the End User created in CUCM that the Phone was associated with (Symetrix in this example)
  - ii. Authentication Password = this will be the Digest Credentials entered for the End User created in CUCM (12345 in this example)
  - iii. Authentication Domain (typically the same address as the CUCM, 10.4.0.50 in this example)



The screenshot shows the Symetrix web admin interface for the SymNet 2 Line VoIP Interface. The 'Authentication' tab is selected for Line 1. The form fields are: Authentication User Name: Symetrix, Authentication Password: [masked with dots], and Authentication Domain: 10.4.0.50. There are 'Revert' and 'Save' buttons at the bottom.

- c. Server tab
  - i. Server Name
  - ii. Server Address (this is the address of the CUCM)

*\*To set up Line 2 follow the same steps as Line 1, but the User Name will be the Directory Number created for the second line of the device in CUCM*

