

# Cisco Unified Communications Manager 6.1 SIP Configuration Guide

Valcom Session Initiation Protocol (SIP) VIP devices are compatible with Cisco Unified Communications Manager (formerly Cisco Unified CallManager) (SIP enabled versions). The Valcom device is added to the Communications Manager as a Third-party SIP Device (Basic or Advanced). Third-party SIP Device (Basic) supports one line and requires three license units. Third-party SIP Device (Advanced) supports up to eight lines and requires six license units. The following steps outline the typical configuration process.

 Default, non-secure Phone Security Profiles do not require authentication for a phone to register. To enable digest authentication, a new Phone Security Profile must be configured. If an appropriate profile has already been defined, it may be used for the Valcom device. Skip to Step 5 if an existing profile will be used, or if authentication is not required and a built-in (non-secure) profile will be used.

Navigate your web browser to the IP address of your Cisco Unified Communications Manager server and login. Go to the "System" menu, and then click "Security Profile", then click "Phone Security Profile".

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# Cisco Unified Communications Manager 6.1 SIP Configuration Guide

3. On the Phone Security Profile Configuration screen, select the appropriate Profile Type from the dropdown list. For Valcom devices, the type will be either Third-party SIP Device (Advanced) or Third-party SIP Device (Basic). The profile being created will only be available for the phone type that is selected. Use Basic for devices that only have a single SIP identity (such as a SIP speaker). Select Advanced for devices that have multiple SIP identities (such as the VIP-201 Paging Server). Click "Next" after selecting the Type.

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- 4. Enter the Phone Security Profile Information.
  - A) Enter "Name\*" (ex. Valcom SIP Advanced)
  - B) Enter "Nonce Validity Time\*" in seconds (default 600)
  - C) For "Transport Type\*" select "UDP" from the dropdown list
  - D) Check the box for "Enable Digest Authentication"
  - E) The "SIP Phone Port\*" should be left at the default of 5060, unless it is also changed in the Valcom device.
  - F) Click the "Save" button when all fields have been entered.

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5. An End User must be created to allow the Valcom device to register with the Communications Manager. Under the "User Management" menu, select "End User"

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System • Call Routing • Media Resources • Voice Mail • Device • Application •	User Management	▪ Help ▪		
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This product contains cryptographic features and is subject to United States and local products does not imply third-party authority to import, export, distribute or use encr and local country laws. By using this product you agree to comply with applicable law immediately.	country laws governing import, export, yption. Importers, exporters, distributor is and regulations. If you are unable to o	transfer and use. Delivery of Cisco cryptographic s and users are responsible for compliance with U.S. comply with U.S. and local laws, return this product		
A summary of U.S. laws governing Cisco cryptographic products may be found at our	r Export Compliance Product Report web	site.		
For information about Cisco Unified Communications Manager please visit our Unified	Communications System Documentatio	<u>n</u> web site.		
For Cisco Technical Support please visit our Technical Support web site.				

#### 6. Click on "Add New"

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- 7. Configuration items on the web page marked with an asterisk (\*) are required entries. The minimum required for the Valcom device are listed; other fields should be completed if necessary for your site.
  - A) Enter "User ID\*" (ex. VIP-201-1)
  - B) Enter "Last name\*" (ex. Valcom)
  - C) Enter "Digest Credentials" (ex. valcom). This may be left blank if not using digest authentication.
  - D) Re-enter credentials in "Confirm Digest Credentials" (ex. valcom)
  - E) Select "Save" at the top or bottom of the screen

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8. Create the Phone definition for the Valcom device. Go to the "Device" menu, and then click on "Phone"

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#### 9. Click "Add New"

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10. Select "Third-party SIP Device (Basic)" or "Third-party SIP Device (Advanced)" from the dropdown, then click "Next". Valcom IP devices that only have one SIP identity (directory number) would be "Basic", other Valcom IP devices can be either. If you intend to only use one SIP identity (directory number) on the Valcom IP device, then choose Basic. Otherwise, choose Advanced. Click "Next" after making the Type selection.

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- Select the type of phone you would like to create	
Phone Type* Third-party SIP Device (Advanced)	
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(i) *- indicates required item.	



- 11. Configuration items on the web page marked with an asterisk (\*) are required entries. Complete those items with values appropriate for your site, particularly for items such as Device Pool, Calling Search Space, Location, etc. Complete the following steps:
  - A) Confirm the "Is Active" checkbox is checked.
  - B) Enter "MAC Address\*" (ex. 00D05F003A06, use the MAC address from the Valcom device that will be registered)
  - C) For "Device Pool\*", select "Default" (or Pool that is valid for your installation)

  - D) For "Phone Button Template\*", select "Third-party SIP Device (Basic)" or "Third-party SIP Device (Advanced)"
     E) For "Device Security Profile\*", select Profile created in Step 4 (ex. "Valcom SIP Advanced"), or use built-in nonsecure profile if authentication is not required.
  - F) For "SIP Profile\*", select "Standard SIP Profile"
  - G) For "Digest User", select the "User ID" that was created in Step 7. (ex. VIP-201-1)
  - H) Check the box for "Require DTMF Reception"
  - I) Select "Save" at the top or bottom of the screen.

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AAR Group	< None >	<b>•</b>	
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Owner User ID	< None >	•	
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12. After saving the initial Phone Configuration, the screen will now display a column for Association Information. Select any of the line appearance items, typically the first one "Line [1] - Add a new DN". For Valcom devices that support multiple SIP identities, select any Line that has not already been assigned.

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- 13. The Directory Number Configuration includes many options. Complete the entries with values appropriate for your installation, particularly for items such as Route Partition and Calling Search Space. For Valcom devices that support multiple SIP identities, Steps 12 and 13 may be repeated to assign additional directory numbers to the device.

  - A) Enter "Directory Number\*" (ex. 7200)B) Enter "Description" (ex. VIP-201 SIP Line 1)
  - C) Make sure the "Is Active" checkbox is checked
  - D) For "Maximum Number of Calls\*", enter "2"
  - E) For "Busy Trigger\*", enter "1"
  - F) Select "Save" at the top or bottom of the screen

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Multiple Call/Call Waiting Settings on Device SEP00D05F003A06     Note:The range to select the Max Number of calls is: 1-16								
Maximum Number of	Calls*	2						
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14. Open the VIP-102B IP Solutions Setup Tool interface for the Valcom SIP enabled device.

Note: The information contained in this guide is limited to configuration of the "SIP" tab in the VIP-102B IP Solutions Setup Tool for the Valcom VIP device that is to be registered to the SIP server. More information on Valcom VIP device configuration, such as IP address assignment, relay activation, etc, may be found in the VIP-102B Reference Manual. This document may be downloaded from our website at http://www.valcom.com

- A) For "Phone Number", enter the Directory Number from Step 13 (ex. 7200)
- B) For "Authentication Name", enter the End User created in Step 7 (ex. VIP-201-1)
- C) For "Secret", enter the Digest Credentials entered in Step 7 (ex. valcom)
- D) For "SIP Server", enter the IP address of the Communications Manager server
- E) Make sure the "Register" checkbox is checked
- F) The Port settings should be left at the default values, unless specific site conditions require changes
- G) Other entries, such as Audio Groups, Store and Play selection, etc. may be entered as necessary

For Valcom devices that support multiple SIP identities, each Directory Number assigned in Steps 12 & 13 can be assigned to one of the available SIP identities. Move the slider control at the bottom of the screen to move between identities. Enter the Phone Number to match the Directory Number for each Line configured in Step 13. The Authentication Name and Secret will stay the same for all SIP identities on the Valcom device. When the Valcom VIP device configuration is complete, select the "Update Changed Devices" option from the Communications menu. When the update is complete, reset the device to make the changes effective.

Summary Properties Network	Channels Relays Group Membership SIP								
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SIP Identity 1									
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Authentication Name:	VIP-201-1								
Secret:	valcom								
Realm:									
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Outbound Proxy:									
SIP Server Port:	5060 SIP Port: 5060								
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15. To confirm a successful configuration, return to Communications Manager and click on "Phone" from the "Device" menu.

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16. Click the "Find" button to search for Phones

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System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻								
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Find Phone where Device Name 🔹 begins with 💌 Find Clear Filter 😓 📼 Select item or enter search text 💌								
No active query. Please enter your search criteria using the options above.								
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17. Locate the VIP device in the search results. If successfully registered, the Status column should show the VIP device is registered to the Communications Manager with the VIP device's IP address in the "IP Address" column.

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Find Phone where     Description <ul> <li>begins with</li> <li>VIP-201</li> <li>Find</li> <li>Clear Filter</li> <li>Generative</li> <li>Generative</li></ul>										
Device Name(Line) *	Description Device Pool	Device Protocol	Status	IP Address	Сору	Super Copy				
SEPOODO5F003A06	VIP-201 Example <u>Default</u>	SIP	Registered with 192.168.97.53	192.168.96.237	ß	0°				
Add New Select All Clear All	Delete Selected Reset	Selected								