

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, Third-party SIP Device (Advanced) supports up to eight lines.

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.

1. Go to the "System" menu, and then click "Security Profile", then click "Phone Security Profile".

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2. Click on "Add New"

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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" or TCP+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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- Status				
() Status: Ready				
-Phone Security Pro	file Information			
Product Type: Device Protocol:	Third-party SIP Device (Advanced) SIP			
Name*	Valcom SSP Advanced		]	
Description	Valcom Nulti-Line Seonty Profile		]	
Nonce Validity Time*	Selection			
Transport Type*	TCP+UDP	*		
Enable Digest Au	thentication			
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Save				
(i) *- indicates rec	uired item.			

The following steps outline the typical device configuration process:

- 1. Under the "User Management" menu, select "End User"
- 2. Click on "Add New"

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System 👻	Call Routing 👻 M	edia Resources 👻	Voice Mail 👻	Device 👻	Application 👻	User Management 👻	Bulk Administration 👻	Help 👻		
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- 3. Complete the following steps:
  - A) Enter "User ID\*" (ex. 5000) -[required for Valcom device]
  - B) Enter "Last name\*" (ex. 5000) -[required for Call Manager only]
  - C) Enter "Digest Credentials" (ex. 1234) –[required for Valcom device]



- D) Enter "Confirm Digest Credentials" (ex. 1234) -[required for Valcom device]
- E) Select "Save" at the top of the screen

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Mobile Nun	nber					
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User Locale	e	< None >		•	•	
Associated	PC/Site Code					
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User Profile	8	Use System Defau	lt( "Standard (Factory	Default) Us 🕯	View Detai	l <u>s</u>
User Rank <sup>*</sup>	ĸ	1-Default User Ra	nk	•	•	



#### 4. Click on "Device", then click on "Phone"

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Status		Phone				
(i) Add successful		Trunk Remote Destination				
User Information		Expressway-C				
User Status	Enabled Local User	Device Settings				
User ID*	5000	Headset	,			
Password	••••••	••	Edit Credential			
Confirm Password	••••••	••	]			
Self-Service User ID						
PIN		••	Edit Credential			
Confirm PIN		••				
Last name*	Valcom					
Middle name						
First name						
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Title			ĺ			
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- Service Settings						

and Click on "Add New"



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Find and List Phones			Related Links: Actively Lopped In Device Report 🛩 Go
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Add new			

5. Select "Third-party SIP Device (Basic)" or "Third-party SIP Device (Advanced)" from the dropdown, then click "Next"

(VIP speakers would be "Basic", other VIP devices can be either, depending on whether more than one extension/Directory Number will be used on a VIP device)

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System + Cali Routing + Media Resources + Advanced Features + Device + Application + User Management + Bulk Administration + Help +	
Add a New Phone	Related Links: Back To Find/List 🛩 Go
Test Intert	
r Status	
Status: Ready	
Add New Phone Information	
Start by selecting the type of phone you wish to add, or cick here to add a new phone uping a Universal Device Template.	
Phone Type* (Third-party SIP Device (Advanced)	
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(i) *- indicates required here.	
•••• Create a phone template using the Bulk Administration Tool to enable template-based phone creation.	
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- 6. Complete the following steps : -in Device Information Section
  - A) Enter "MAC Address\*" (ex. 00D05F01D32C, use the MAC address from the Valcom device that will be registered)
  - B) Select "Device Pool\*"  $\rightarrow$  "Default" (or what is valid for your installation)
  - C) Select "Phone Button Template\*" → "Third-party SIP Device (Basic)" or "Third-party SIP Device (Advanced)"
  - D) Select "Common Phone Profile\*" → "Standard Common Phone Profile"
  - E) Select "Location\*"  $\rightarrow$  "Hub\_None" (or what is valid for your installation)
  - F) Select "Owner" → Anonymous
  - G) Remaining Options is Device Information section can be left as default



- Status (i) Status: Ready

Phone Type							
Product Type: Third-party SIP Device (Advanced) Device Protocol: SIP							
- Device Information	- Device Information						
A Device is not trusted MAC Address*	00D05F01D32C						
Description	SEP00D05F01D32C						
Device Pool*	Default	View Details					
Common Device Configuration	< None >	<ul> <li>✓ <u>View Details</u></li> <li>✓ View Details</li> </ul>					
Phone Button Template*	Third-party SIP Device (Advanced)	✓ VICW Decons					
Common Phone Profile*	Standard Common Phone Profile	View Details					
Calling Search Space	< None >	✓					
AAR Calling Search Space		✓					
Media Resource Group List	< None >	<b>~</b>					
Location*	Hub None	<b>~</b>					
AAR Group	< None >	~					
Device Mobility Mode*	Default	<b>~</b>					
Owner	User  Anonymous (Public/Shared Space)						
Owner User ID		~					
Mobility User ID	< None >	~					
Use Trusted Relay Point*	Default	~					
Always Use Prime Line*	Default	~					
Always Use Prime Line for Voice Message*	Default	~					
Geolocation	< None >	~					
✓ Retry Video Call as Audio							
□ Ignore Presentation Indicators (internal	calls only)						
Logged Into Hunt Group							
Remote Device							



-in Protocol Specific Information Section

- H) Select "Presence Group\*"  $\rightarrow$  "Standard Presence group" (or what is valid for your installation)
- I) Select "MTP Preferred Originating Codec\*" → "711ulaw"
- J) Select "Device Security Profile\*" → "Third-party SIP Device Basic Standard SIP Non-Secure Profile" (or a Secure Profile that you may have created –see Step 1 at the beginning of this document)
- K) Select "SIP Profile\*" → "Standard SIP Profile"
- L) Select "Media Termination Point Required"
- M) Select "Digest User"  $\rightarrow$  The "User ID" that was created in Step 3A. (ex. 5000)
- N) All other fields can be left at default or configure per your server/site.
- O) Select "Save" at the top of the screen.

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Phone Co	nfiguration						
Save							
<b>✓</b> Use	, Device Pool Calling Party	Transform	- ation CSS (Ca	aller ID Fo	r Calls From	n This Phor	ne)
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Save							

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7. Select "Line [1] – Add a new DN" under "Association".

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Association Nodily Button Items	Phone Type Product Type: Third-party SIP	Device (Advanced)		
1 millie [1] - Add a new DN	Device Protocol: SIP			
2 Mart 121 - Add a new DN	Real-time Device Status			
3 milline (3) - Add a new DN	IPv4 Address: None			
4 mit Line (4) - Add a new DN	P Device Information			
5 MILLINE [5] - Add a new DN	Device is Active			
6 emiline (6) - Add a new SN	A Device is not trusted			
7 Instant 121 - Add a new ON	MAC Address*	00D05F01D32C		(SEP00D05F01D32C)
a empline [8] - Add a new DN	Description	SEPOODOSPO1D32C		
THE REAL PROPERTY AND ADDRESS OF	Device Pool*	Default	Y	View Details
	Common Device Configuration	< None >	*	View Details
	Phone Button Template*	Third-party SIP Device (Advanced)	~	
	Common Phone Profile*	Standard Common Phone Profile	~	View Details

- Complete the following steps:
   -in Directory Number Information
  - A) Enter "Directory Number\*" (ex. 5000)
  - B) Route Partition use default or what is applicable to your site
  - C) Enter "Description" (ex. SIP Paging Server Zone 1)
  - D) Check the Active checkbox, if not already checked

-in Directory Number Settings

E) Select "Presence Group\*"  $\rightarrow$  "Standard Presence group" (or what is valid for your installation)



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System 👻	Call Routing 👻	Media Resources 👻	Advanced Features 👻	Device 👻	Application $\bullet$	User Management 👻	Bulk Administration $~$	Help 👻
Directory	Number Confi	iguration						
📄 Save								
<u> </u>	tory Number Co		shed due to a director	y number ch	iange. Please o	lick Save button to sa	we the configuration.	
Directory I	Number*	5000				Urgent Priority		
Route Part	tition	< None >			~	2 .		
Description	n	SIP Paging Server	Zone 1					
Alerting Na	ame							
ASCII Aler	rting Name							
External C	all Control Profi	le < None >			•			
🗹 Active								

-in Line 1 on Device SEP00D05F01D32C

F) Key in "Display (Caller ID)" with a name or number to identify this (DN) extension \**useful if using talkback speakers that can call into the Call Manager.* 

-in Multiple Call/Call Waiting Settings on Device SEP00D05F01D32C

- G) Enter "Maximum Number of Calls\*"  $\rightarrow$  "2"
- H) Enter "Busy Trigger\*"  $\rightarrow$  "2"

-in Forwarded Call Information Display on Device SEP00D05F01D32C

- I) Check "Caller Name"
- J) Check " Dialed Number"
- K) Select "Save" at the bottom or top of the screen
- L) Click "Apply Config" at top of screen



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System + Calificating + M	India Resources	Advanced Features      Deve	ce + Application + User Manag	ment + Buk Administration + Halp +
Directory Number Config	uration			Related Links: Configure Device (SEPV0D05F01032C) 🛩
Save				
Target (Destination)	- T			
MLPP Calling Search Space		< None >	v	
MLPP No Answer Ring Durat	ion (seconds)			
Confidential Access Mode	Ē	« None »	*	
Confidential Access Level		China P	4	
Cell Control Agent Profile	0	« None >	•	
Line Settings for All Devic	es-	~		
Hold Reversion Ring Duration (seconds)				Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Revension Notification I	Interval (second	(a)		Setting the Hold Reversion Notification Interval to zero will disable the feature
Party Entrance Tone*		Default	*	
-Line 1 on Device SEP00D	05F01D32C-			
Display (Caller ID)	-		Display tex	for a line appearance is intended for displaying text such as a name instead of a directory number for calls. If you specify a number, the
	person receiv	ing a call may not see the prop		
ASCII Display (Caller ID)				
Esternal Phone Number Neok				
Nontoring Calling Search Space	< None >		•	
- Multiple Call/Call Waiting	Settings on E	Pevice SEP00D05F01D32C-		
Note: The range to select the Haximum Number of Cala*		of calls is: 2-16		
Busy Trigger*		2		(Less than or equal to Max. Calls)
-Forwarded Call Informati	on Display on	Device SEP00D05F01D32C-		
Caller Name				
Caller Number				
Redirected Number				
Dialed Number				

#### M) Click Related Links: Configure Device Go button to return to device screen





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one Configuration				
) Save 🗙 Detete 🗋 Copy 💁 totus ) Status: Reedy	Resel 🦧 Apply Config 🖓 Add New			
ssociation	- Phone Type			
Modify Button Items	Product Type: Third-party SIP Devi Device Protocol: SIP	ce (Advanced)		
ems Line [2] - Add a new DN	Real-time Device Status			
ent Line [3] - Add a new DN	Registration: Unknown			
1011	IPv4 Address: None			
The Line [4] - Add a new DN	Device Information		_	
The Lone [5] - Add a new DN	Device is Active			
tine [6] - Add a new DN	A Device is not trusted			
was Line 171 - Add a new DN	MAC Address*	00D05F01D32C	(SEP00D0SF01D32C)	
ent Line 161 - Add a new DN	Description	SEP00D05F01D32C		
184	Device Popi*	Default	and the second se	v Details
	Common Device Configuration	< None >		v Details
	Phone Button Template* Common Phone Profile*	Third-party SIP Device (Advanced)	*	
	Common Phone Profile * Calling Search Space	Standard Common Phone Profile		v Details
	AAR Calling Search Space	< None >	*	
	Media Resource Group List	< None >	-	
	Location*	< None > Hub None	÷	
	AAR Group	< None >	-	
	Device Mobility Mode*	Default		v Current Device Mobility Settings
	Owner Owner User ID	User  Anonymous (Public/Shared Space)		
	Mobility User ID	< None >	~	
	Use Trusted Relay Point*	Default	*	
	Always Use Prime Line*	Default	~	
	Always Use Prime Line for Voice Message *	Default	~	
	Geolocation	< None >	~	
	Retry Video Call as Audio			
	Ignore Presentation Indicators (interna	( calls only)		
	Logged Into Hunt Group			
	Decesso Acides			

- N) You can repeat steps A-F if configuring more than 1 extension
- O) When done Click "Apply Config"



9. Open the VIP-102B tool interface for the Valcom SIP enabled VIP 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 <u>http://www.valcom.com</u>

#### In order to Register:

Required Fields: Phone Number, Authentication Name, Secret, SIP Server (primary), Register, SIP Server Port, SIP Port, RTP Port

Optional Fields: Description, Realm, SIP Server Backup 1, 2, and 3, DNS SRV, CID Name, CID Number.

In our example, the SIP Server IP address is the same as our Cisco Call Manager, "192.168.98.70". If using a host name here you must specify at least one DNS server on the Network tab to resolve the name. Phone Number is the same as our Directory Number in the Cisco Call Manager configuration, "5000". Secret is the same as our Digest Credentials in the Cisco Call Manager configuration, "1234". SIP Server Port is the port number, on which the Cisco Call Manager SIP server is listening for SIP data. SIP Port is the port number, on which the Valcom VIP device is listening for SIP data. By default this is set for "5060". RTP Port is the port number, on which the Valcom VIP device is set to send/receive audio packets, via SIP. By default this is set for "20000". All other optional fields may be used based on your server/site requirements.

For this particular device, the SIP paging server, other fields on the SIP tab relate to functionality of the device. Definition of these fields may be found in the VIP-102B Reference Manual under the SIP Tab (VIP-201, VIP-204). This document may be downloaded from our website at <a href="http://www.valcom.com">http://www.valcom.com</a>

When the Valcom VIP device configuration is complete, select the "Update Changed Devices" button, at the upper left. When update is complete, click reset, to reboot the device.



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- Mocellaneous	Summary Options Properties Network Time Champels Relays Polycon Group Membership SIP							
C 00-00-5F-03-0F-10	Transport Accept: TCP + UOP, Originale: TCP V SIP Mode Station							
	1 2 3 4	5 6	7	8				
	Phone Number	5860						
	Description:	12					-	
	Authentication Name	5000						
	Secret:	1234						
	Realm							
	SIP Servers:	-	Server		Pat			
	ar arres.	<ul> <li>Primary</li> </ul>	192.168.98	70	5060			
	Register 🗹	Backup 1		20	50	160		
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		Backup 3			50	160		
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	SIP Port RTP Port	5060	1	Ide Tineout (secs):	0		~	
		20000	1	Max Call Timer (secs):	0 ~		~	
	Night Ring							
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10. To confirm a successful configuration, return to Call Manager and click on "Device", then Phone, then locate the VIP device in the search results. If successfully registered, the status column should show the VIP device is registered to the IP address of the Call Manager with the VIP device's IP address in the next column under "IP Address"