

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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CISCO For Cisco Unified Com	munications Solutions			admin About I	Logout
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Server				Related Links: Back to Find List Users	- Gn
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Cisco Unified CM Group					
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Location					
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SRST					
MLPP •					
Enterprise Parameters					
Enterprise Phone Configuration					
Service Parameters		_			
Security Profile	Phone Security Profile				
Application Server	SIP Trunk Security Profile				
Licensing +	CUMA Server Security Profile				
Geolocation Configuration		1			
Geolocation Filter					



2. Click on "Add New"

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Find and List Phone Security Profiles	
Add New	
Phone Security Profile	
Find Phone Security Profile where Name 🔹 begins with 👻 🛛 Find Clear Filter 🕀	•
No active query. Please enter your search criteria using the options above	e.
Add New	

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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System 👻	Call Routing 👻	Media Resources 👻	Voice Mail 👻	Device 👻	Application 👻	User Management 👻	Bulk Administration \bullet	Help 🔻			
Phone Se	curity Profile	e Configuration							Related Links: Back	To Find/Lis	t 🔻 Go
Next											
Status - i Statu	us: Ready										
- Select t Phone Se	t he type of d e curity Profile T	ype [*] Third-party SI	ould like to IP Device (Adv	create — vanced)	•	•					
— Next											
(i) *- ir	ndicates requir	ed item.									

- 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.



	sco Unified CM Administration Cisco Unified Communications Solutions	Navigation Cisco Unified CM Administration 👻 Go admin About Logout
System 👻 Call Ro	uting Media Resources Voice Mail Device Application User Management Bulk Administration	
Phone Security	Profile Configuration	Related Links: Back To Find/List 🔻 Go
Save		
Status	dy	
Product Type: Device Protoco	y Profile Information Third-party SIP Device (Advanced) I: SIP	
Name* Description	Valcom SIP Advanced Valcom multi-line security profile	
Nonce Validity Ti		
Transport Type*	UDP 👻	
📝 Enable Digest	Authentication	
Parameters us SIP Phone Port*		
	: required item.	



The following steps outline the typical device configuration process:

1. Under the "User Management" menu, select "End User"

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System 👻	Call Routing 👻 Media Resources 👻 Advanced Features 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻				
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	No active query. Please enter your search criteria using the options above.				
Add Nev					

2. Click on "Add New"

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Find and I	List Users	
🕂 Add N	ew	
User		
Find User	where First name 💌 begins with 💌	Find Clear Filter
	No active query. P	ease enter your search criteria using the options above.
Add Ne	w	

- 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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System 👻 Call Routing 👻	Media Resources 👻 Advanced Features 👻 De	evice 👻	Application	τ ι
End User Configuration				
Save				
- User Information User Status	Enabled Local User			
User ID*	5000			
Password				
Confirm Password				
Self-Service User ID				
PIN				
Confirm PIN				
Last name*	Valcom			
Middle name				
First name				
Display name				
Title				
Directory URI				
Telephone Number				
Home Number				
Mobile Number				
Pager Number				
Mail ID				
Manager User ID				
Department				
User Locale	< None >	,	~	
Associated PC				
Digest Credentials	••••			
Confirm Digest Credentials				
User Profile	Use System Default("Standard (Factory Def	ault) Us '	View De	tails



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

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System - Call Routing - Media Resources - Advanced Feature	res 👻 Device 👻 Application 👻 User Management
End User Configuration	CTI Route Point Gatekeeper Gateway
	Phone
Status Add successful	Remote Destination
User Information —	Source Country ,
User Status Enabled Local User User ID* Food	
Bacquerd	
Confirm Decoverd	
Self-Service User ID	
PIN	Edit Credential
Confirm PIN	••••••
Last name* Valcom	
Middle name	
First name	
Display name	
Title	
Directory URI	
Telephone Number	
Home Number	
Mobile Number	
Pager Number	
Mail ID	
Manager User ID	
Department	
User Locale < None >	 ✓
Associated PC	
Digest Credentials	
Confirm Digest Credentials	



Click on "Add New"

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System 👻	Call Routing 👻	Media Resources 🔻	Advanced Features 👻	Device 👻	Application 👻	User Management 👻	Bulk Administration 👻	Help 👻				noout	Logout
Find and	List Phones									Related Lin	ks: Actively Logged In I	Device Repo	ort 🗸 Go
Add N	lew												
Phone													
Find Phone	e where Device	e Name	✓ begins with ✓		m or enter sea	Find Clear Filter	4 =						
					No active	query. Please enter you	ur search criteria using	the options abov	e.				
Add Nev	N												

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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Add a New Phone 🔚		Related Links: Back To Find/List 🛩 Go
Next		
Status		
i Status: Ready		
— Select the type of phone you would like to create ———————————————————————————————————		
Phone Type [*] Third-party SIP Device (Basic)		
Next		
Next		
*- indicates required item.		

- 6. Complete the following steps:
 - 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*" \rightarrow "Standard Common Phone Profile"
 - E) Select "Location*" \rightarrow "Hub_None" (or what is valid for your installation)
 - F) Select "Owner" → User
 - G) Select "Owner User ID" \rightarrow The "User ID" that was created in Step 3A. (ex. 5000)



System ▼ Call Routing ▼ Media Res	ources Advanced Features Advanced Features Application	on 👻 User Managem
Phone Configuration		
Save		
- Status		
(1) Status: Ready		
Phone Type		
	P Device (Basic)	
Device Protocol: SIP		
Device Information		
Device is not trusted		
MAC Address*	00D05F01D32C	
Description	SEP00D05F01D32C	
Device Pool*	Default	View Det
Common Device Configuration	< None >	View Det
Phone Button Template*	Third-party SIP Device (Basic)	~
Common Phone Profile*	Standard Common Phone Profile	View Det
Calling Search Space	< None >	~
AAR Calling Search Space	< None >	~
Media Resource Group List	< None >	~
Location*	Hub_None	~
AAR Group	< None >	~
Device Mobility Mode*	Default	~
Owner	● User ○ Anonymous (Public/Shared Spa	ce)
Owner User ID*	5000	~
Use Trusted Relay Point*	Default	~
Always Use Prime Line*	Default	\checkmark
Always Use Prime Line for Voice Me	ssage* Default	~
Geolocation	< None >	~
Ignore Presentation Indicators (internal calls only)	



- 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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one Configuration		
Save		
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Number Presentation Transfo	mation	
 Caller ID For Calls From This Calling Party Transformation CSS 		V
	- 110110 -	•
■ Use Device Pool Calling Party	Transformation CSS (Caller ID For Calls From This Ph	ione)
– Remote Number –		
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■ Use Device Pool Calling Party		,
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Protocol Specific Information BLF Presence Group [*] MTP Preferred Originating Codec [*] Device Security Profile [*]	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Se	× ×
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Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Se < None > < None >	
Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile*	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Se < None > < None > Standard SIP Profile	× ×
Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile*	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Se < None > < None >	
Protocol Specific Information 3LF Presence Group * 4TP Preferred Originating Codec * Device Security Profile * Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile * Digest User	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Sec < None > < None > Standard SIP Profile 5000	
Protocol Specific Information BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile*	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Sec < None > < None > Standard SIP Profile 5000	
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	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Sec < None > < None > Standard SIP Profile 5000	
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Protocol Specific Information BLF Presence Group [*] MTP Preferred Originating Codec [*] Device Security Profile [*] Rerouting Calling Search Space SUBSCRIBE Calling Search Space SUBSCRIBE Calling Search Space SIP Profile [*] Digest User ☑ Media Termination Point Requi ☐ Unattended Port ☐ Require DTMF Reception MLPP and Confidential Access MLPP Domain < None	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Sec < None > < None > < None > <standard <="" <s000="" pre="" profile="" red="" sip=""></standard>	
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 Requi Unattended Port Require DTMF Reception	Standard Presence group 711ulaw Third-party SIP Device Basic - Standard SIP Non-Sec < None > < None > < None > <standard <="" <s000="" pre="" profile="" red="" sip=""></standard>	

Envo



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

Cisco Unified CM For Cisco Unified Commo	1 Administration		
System - Call Routing - Media Resour	ces ▼ Advanced Features ▼ Device ▼ Ap	plication 👻 User Management 👻 Bulk Administration	· ➡ Help ➡
Phone Configuration			3
🔜 Save 🗶 Delete 🗋 Copy 🔮	🕽 Reset 🧷 Apply Config 🕂 Add New		
- Status			
Add successful			
•!-•!	DL		
Association Modify Button Items 1 ems Line [1] - Add a new DN	Phone Type Product Type: Third-party SIP Devi Device Protocol: SIP	ce (Basic)	
	Real-time Device Status Registration: Unknown IPv4 Address: None		
	Device Information		
	Device is Active		
	Device is not trusted MAC Address*	00D05F01D32C	
	Description	SEP00D05F01D32C	
	Device Pool*	Default	View Details
	Common Device Configuration	< None >	View Details
	Phone Button Template*	Third-party SIP Device (Basic)	~
	Common Phone Profile*	Standard Common Phone Profile	View Details

- 8. Complete the following steps:
 - A) Enter "Directory Number*" (ex. 5000)
 - B) Enter "Description" (ex. DoorSpeaker VIP-172L)
 - C) Check the Active checkbox, if not already checked
 - D) Select "Presence Group*" → "Standard Presence group" (or what is valid for your installation)

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System - Call Routing - I	Media Resources 👻 Adv	anced Features 🔻	Device 👻	Application \bullet	User Management 👻	Bulk Administration	He
Directory Number Config	guration	5					
Save							
- Status Directory Number Conf Directory Number Inforr	iguration has refreshed	due to a directory	number ch	ange. Please cli	ick Save button to sa	ve the configuration.	
Directory Number*	5000			Urgent	Priority		
Route Partition	< None >			~			
Description	DoorSpeaker VIP-172L		×	:			
Alerting Name							
ASCII Alerting Name							
External Call Control Profile	< None >			~			
☑ Active							



- E) Key in "Display (Caller ID)" with a name or number to identify this (DN) extension **useful with talkback speakers that can call into the Call Manager.*
- F) Enter "Maximum Number of Calls*" \rightarrow "2"
- G) Enter "Busy Trigger*" \rightarrow "2"
- H) Check "Caller Name"
- I) Check " Dialed Number"
- J) Select "Save" at the bottom or top of the screen
- K) Click "Apply Config" at top of screen

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System - Call Routing - N	ledia Resources 👻	Advanced Features 👻	Device 👻	Application - U	ser Management	■ Bulk Administration ■	Help 🔻
Directory Number Config	uration						
Save							
MLPP No Answer Ring Duratio	on (seconds)						
Confidential Access Mode	< N	None >		~			
Confidential Access Level		lone >		×			
Call Control Agent Profile	< N	None >		~			
— Line Settings for All Devi	ces						
Hold Reversion Ring Duration					Setting the H	old Reversion Ring Duratio	on to ze
Hold Reversion Notification In	nterval (seconds)				Setting the H	old Reversion Notification	Interva
Party Entrance Tone*		Default			~		
- Line 1 on Device SEP00D	056010320						
Display (Caller ID)				Display text fo	or a line appeara	ance is intended for display	/ina tex
	person receiving	a call may not see the	proper iden				
ASCII Display (Caller ID)							
External Phone Number Mask							
Monitoring Calling Search Space	< None >			\sim			
— Multiple Call/Call Waiting	Settings on De	vice SEP00D05E01D	320				
Note: The range to select the							
Maximum Number of Calls*		2					
Busy Trigger*		2			(L	ess than or equal to Max.	Calls)
— Forwarded Call Informati	ion Display on D	evice SEP00D05F01	D32C ——				
✓ Caller Name							
Caller Number							
Redirected Number							
☑ Dialed Number							
Save							

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

aluch. Cisco Unified CM Administration	Navigation Cisco Unified CM Administration 🗸 Go
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Directory Number Configuration	Related Links: Configure Device (SEP00D05F01D32C) V Go
🔜 Save 🗙 Delete 🎦 Reset 🥒 Apply Config 🕂 Add New	



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Phone Configuration				Related Links: Ba
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🔚 Save 🗶 Delete 📋 Copy Reset 🧷	Apply Config 🛟 Add New			
Status				
Status: Ready				
J Status. Ready				
- Association	Phone Type			
Modify Button Items	Product Type: Third-party SIP Devi	ce (Basic)		
1	Device Protocol: SIP			
Unassigned Associated Items	Real-time Device Status			
2 maile [2] - Add a new DN	Registration: Unknown			
- 1785	IPv4 Address: None			
	Device Information			
	Device information			
	A Device is not trusted			
	MAC Address*	00D05F01D32C		
	Description	SEP00D05F01D32C	=	
	Device Pool*	Default	View Details	
	Common Device Configuration	< None >	View Details	
	Phone Button Template*	Third-party SIP Device (Basic)	~	
	Common Phone Profile*	Standard Common Phone Profile	View Details	
	Calling Search Space	< None >	~	
	AAR Calling Search Space	< None >	~	
	Media Resource Group List	< None >	~	
	Location *	Hub_None	~	
	AAR Group	< None >	~	
	Device Mobility Mode*	Default	View Current	Device Mobility Settings
	Owner	User Anonymous (Public/Shared Space)		
	Owner User ID*	5000	~	
	Use Trusted Relay Point*	Default	~	
	Always Use Prime Line*	Default	~	
	Always Use Prime Line for Voice Message*	Default	~	
	Geolocation	< None >	~	
	Ignore Presentation Indicators (interna	l calls only)		
	✓ Logged Into Hunt Group			

L) 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 http://www.valcom.com

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

<u>Optional Fields:</u> Description, Realm, SIP Server Backup 1, 2, and 3, DNS SRV, CID Name, CID Number, Relay Activation Key applies to our example device. Other VIP devices may not show this field.

In our example, the SIP Server IP address is the same as our Cisco Call Manager, "192.168.97.35". 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 your server/site requirements.

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.

IVIP-102B IP Solutions Setup Tool					
File Communications Device Security Progr	amming System Conflicts H	eln			
50000000000000000000000000000000000000					
Job Information					
	Summary Properties Network Tal	kback Channels Inputs Relays G	roup Membership SIP		
Speaker Plus (TB)	,,				
00-D0-5F-01-D3-2C	1				
	Phone Number:	5000			
	Description:				
	Authentication Name:	5000			
	Secret:	1234			
	Realm:				
	SIP Servers:	Server		Port	
		Primary 192.168.97.35		6060	
		Backup 1		6060	
		Backup 2		6060	
		Backup 3	1	5060	
		Register: DNS SRV:			
	Outbound Proxy:		Outbound Port:	5060	
	SIP Port:	5060	Idle Timeout (secs):	0 ~	
	RTP Port:	20000	Max Call Timer (secs):	0 ~	
	CID Number:	5000			
	CID Name:				
	Relay Activation Key:	# ~			



On the Inputs tab make sure Call Switch is selected and the appropriate SIP extension to be dialed, when this devices is activated by its call button, is entered in the SIP Auto Destination field. All other fields should be left blank. This may not apply for other devices that do not have an Input tab.

VIP-102B IP Solutions Setup Tool	
File Communications Device Security Prog	gramming System Conflicts Help
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Job Information	
<u>∋oo memadan</u> ⊡∰ 192.168.100.xxx	Summary Properties Network Talkback Channels Inputs Relays Group Membership SIP
Speaker Plus (TB)	Junimary Properties Network Tarkback Chainers "9000 Netays Croup Membership Sir
🗐 00-D0-5F-01-D3-2C	Configuration: Normal Input
	1
	Input Function: Call Switch
	Auto Destination:
	Sec Auto Destination:
	SIP Auto Destination: 6031
	SIP Sec Auto Destination:
	Copy 🗸 Apply 💢 Cancel
I VIP-102B IP Solutions Setup Tool	
File Communications Device Security Progra	amming System Conflicts Help
휠 📑 🔚 🕺 · 🕶 ⁄ 🕫 🍕	
lob Information	
⊟	Summary Properties Network Talkback Channels Inputs Relays Group Membership SIP
	1
	Relay Function: Follow DTMF 🗸
	Channel Mapping: 1 v
	Channel Mapping: 1 v

Also for this example only the relay is enabled by setting the Relay Function on the Relay tab to "Follow DTMF". May not apply to other VIP devices.

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"