

I. Introduction

This CUCM 8.0.3a Integration Guide provides general instructions for integration of the **VOIP-500 Series Phone** with a Cisco Call Manager installation. It is recommended to read this instruction set completely before starting any installation. For detailed VOIP-500 Series Phone setup instructions, please consult the **VOIP-500 Series Phone Manual**.

Talk-A-Phone's VOIP-500 Series Phone has tested compatible with Cisco UCM 7.1 and UCM 8.6. The Cisco Compatible logo signifies that Talk-A-Phone's product has undergone interoperability testing by Talk-A-Phone together with Cisco and a third-party test house based on testing criteria set by Cisco. Talk-A-Phone is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to Talk-A-Phone's product or its interoperation with the listed Cisco product(s) and disclaims any implied warranties of merchantability, fitness for a particular use, or against infringement.



II. <u>Prerequisites</u>

- Cisco Unified Communications Manager, version 8.0 pre-installed
- CM and TFTP services licensed and enabled on CUCM
- SIP Device Licensing for Third-party SIP (Basic) devices
- Network access to the CUCM Server, VOIP-500 Series Phones and all network services (SIP, TFTP, HTTP, FTP, DNS, RTP/SRTP)

III. CUCM Basic Configuration

Basic instructions for integrating a **VOIP-500 Series Phone** with a Cisco Unified Call Manager 8.0.3a are included. Advanced setup of CUCM features is outside the scope of this document.

1. Using a web browser, enter the IP address (or FQDN if configured) of the CUCM Server in the address bar:



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2. Login to Cisco Unified CM Administration:





3. A Phone Security Profile with Digest Authentication enabled is required for VOIP-500 integration. Begin by selecting System > Security > Phone Security Profile in the CUCM menu:



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4. In the Find Phone Security Profile field, enter Third-party SIP Device Basic and press Enter.

You should note a single entry for Third-party SIP Device Basic – Standard SIP Non-Secure Profile.

Click the **Copy** button to the right of this entry.

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5. Modify the new Phone Security Profile Name to Third-party SIP Device Basic - Digest Required.

Modify the Description to Third-party SIP Device (Basic) – Digest Required.

Check the Enable Digest Authentication box, and click Save.

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(i) *- indicates required item.



 Each VOIP-500 Series Phone should have a unique End User. In the CUCM main menu, select User Management > End User.





7. Create a new End User. First, click Add New.

Find and List Users +			
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8. Enter the required fields to create a new End User:

User ID: A unique username for each VOIP-500 Series Phone.

Password: A unique password for each VOIP-500 Series Phone.

Last name: (required by CUCM).

Digest Credentials: (required by **VOIP-500 Series Phone**) It is recommended to match the Digest Credentials with the Password for manageability.

End User Configuration	+							
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Associated PC								
Digest Credentials			1					
Confirm Digest Credentials	5		-					

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Next, add each **VOIP-500 Series Phone** as a Device in CUCM. In the CUCM main menu, select **Device > Phone**.



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9. Click Add New.

Find and List Phones	+			
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Phone				
Find Phone where Device Name	✓ begins with ✓ Find Select item or enter search text	Clear Filter		
	No active query. Please enter your search crit	ria using the options above.		



10. Select Third-party SIP Device (Basic) from the Phone Type menu.

Add a New Phone +		
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Add a New Phone	Related Links: Back	To Find/List 👻 Go
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Status		
i Status: Ready		
Select the type of phone you would like to create		
Phone Type* Third-party SIP Device (Basic)		
Next		
• indicates required item.		
U Create a phone template using the Bulk Administration I dol to enable template-based phone creation.		





11. In the Phone Configuration page enter the following fields. Then click Save.

MAC Address: H/W address of VOIP-500

Description: (Auto-filled)

Phone Button Template: Third-party SIP Device (Basic)

Common Phone Profile: Standard Common Phone Profile

Owner User ID: Enter the User ID created in Step 8

Presence Group: Standard Presence Group

Device Security Profile: Third-party SIP Device Basic - Digest Required

SIP Profile: Standard SIP Profile

Digest User: Enter the User ID created in Step 8

Phone Configuration	+				
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Device Information					
A Device is not trusted					
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Description	SEP001EEB000118				
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Common Phone Profile*	Standard Common Phone Profile	*			
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AAR Calling Search Space	< None >				
Media Resource Group List	< None >	-			
Location*	Hub_None	•			
AAR Group	< None >				
Device Mobility Mode*	Default	View Current Device Mobility Set	tings		
Owner User ID	Talkaphone	·			
Use Trusted Relay Point*	Default	•			
Always Use Prime Line*	Default	•			
Always Use Prime Line for Voice Message*	Default	•			
Calling Party Transformation CSS	< None >	•			
Geolocation	< None >	-			
Use Device Pool Calling Party Transform	nation CSS				
Ignore Presentation Indicators (interna	calls only)				
Logged Into Hunt Group					

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Presence Group	Standard Presence group	•
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1LPP Information 1LPP Domain < None > Save *- indicates required item. **- Device reset is not required	• d for changes to Packet Capture Mode and Pac	ket Capture Duration.
4LPP Information 4LPP Domain < None > Save *- indicates required item. **- Device reset is not require *** Device reset is not require ***Note: Security Profile Con	• d for changes to Packet Capture Mode and Packatings.	ket Capture Duration.
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12. Each device needs to have a unique Directory Number. Click Line [1] – Add a new DN.

Phone Configuration	+					
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13. On the Directory Number Configuration page, enter the following fields. Then click Save.

Directory Number: Enter a Unique extension for the phone Presence Group: **Standard Presence Group** Maximum Number of Calls: **1** Busy Trigger: **1**

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CUCM 8.0.3a Integration Guide

	Voice Mail	Destination		Calling	Search Space
Park Monitoring Forward No Retrieve Destination External	🗖 or			< None > to call the parker's line.	✓ A blank value means
Park Monitoring Forward No Retrieve Destination Internal	🗖 or 🛛			< None > to call the parker's line.	✓ A blank value means
Park Monitoring Reversion Timer			A blank value will	use value set in Park Monitoring Rev	ersion Timer service parameter
MLPP Alternate Party Settings-					
Target (Destination)					
MLPP Calling Search Space	< None :	× •			
MLPP No Answer Ring Duration (seco	nds)				
Line Settings for All Devices					
Hold Reversion Ring Duration (second	is)		Sett	ng the Hold Reversion Ring Duration	to zero will disable the feature
Hold Reversion Notification Interval (seconds)		Sett	ng the Hold Reversion Notification Int	erval to zero will disable the feature
Party Entrance Tone*	Defa	ault	•		
Line 1 on Device SEP001EEB0001	18				
Display (Internal		Displa	y text for a line ap	pearance is intended for displaying te	xt such as a name instead of a directory
Caller ID) number for	internal calls.	If you specify a number, the person receiving	a call may not see	the proper identity of the caller.	
ASCII Display (Internal Caller ID)					
External Phone Number Mask					
Monitoring Calling < None > Search Space		•			
Multiple Call/Call Waiting Setting	s on Device S	SEP001EEB000118			
Note:The range to select the Max Nur	nber of calls is	:: 1-2			
Maximum Number of Calls*		1			
Busy Trigger*		1		(Less than or equal to Max. Ca	lls)
Forwarded Call Information Displ	ay on Device	e SEP001EEB000118			
Caller Name					
Caller Number					
Bedirected Number					
V Dialed Number					
Users Associated with Line					
osers associated with time					
Associate E	nd Users				
Save Delete Reset A	pply Config	Add New			
0					
*- indicates required item.					
 **- Changes to Line or Director 	y Number sett	ings require restart.			

14. If adding multiple VOIP-500 Series Phones, repeat Steps 6-14 for each device.



IV. VOIP-500 Series Phone Configuration

- 1. Using a web browser, enter the IP address of the VOIP-500 Series Phone that you are programming. Login to the device with the configured Username and Password.
- 2. In the VOIP-500 main menu, select Network > SIP Settings.
- 3. Enter the following fields on the SIP Settings page. Then click Apply. Assign a phone number:

Phone Number: Enter the DN created in Step III-14

Specify domain name:

Domain Name: Enter the IP address of the CUCM Server

Enable/disable SIP registration:

Register: Checked

Specify SIP registrar:

Username: Enter the User ID create in Step III-8 Password: Enter the Digest Credentials created in Step III-8 IP Address: Enter the IP address of the CUCM Server Port: (default: 5060) Re-registration Time: (default: 3600)

Specify outbound proxy:

Username: Enter the User ID create in Step III-8 Password: Enter the Digest Credentials created in Step III-8 IP Address: Enter the IP address of the CUCM Server Port: (default: 5060)

TALK A PH Creating Communication	ONE Solutions®	VoIP Phor	ie	Apply Refresh Help Logout
Home Maintenance	SIP Settings			
Network IP Settings	Assign a phone number : Phone Number 5090	~		
SIP Settings	Specify domain name :			
Davisas	Domain Name 192. 168. 39. 40	none	none	
Voice Messages	Enable/disable SIP registration :			
Authentication	Register			
Reboot	Specify SIP registrar :			
	Username Talkaphone			
	Password •••••••			
	IP Address 192.168.39.40			
	Port 5060 (Port	Range: 1024-49151)		
	Re-registration Time 3600 (Rang	e: 10-14400 sec)		
	Specify outbound provy :			
	Username Takaphone			
	Password			
	TD Address 102 169 20 40			
	IP Address 192, 100, 59, 40			
	Port 5060 (Port	Range: 1024-49151)		
	rcegstration status: ● Primary Registrar is Active : Regis	ered as 5090@192.168.39.40		
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4. Repeat steps 1-4 for any additional VOIP-500 Series Phones.