

ALM – CallManager configuration manual

For CM version 4



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Configuration Manual ALM

This manual describes the configuration steps to complete the ALM settings for a user.

Only the CallManager part of the installation will be discussed in this manual.

Several steps are required like the configuration of a device/phone and the configuration of a Device Profile and a user.

This manual does not contain instructions on how to configure Partitions, CallingSearchSpaces and other phone and user settings.

CallManager System Settings

System settings

 On the CallManager Administration page click on "Feature" followed by "Service Parameters"





System Route Plan Service Fi	eature Device User Application H	ielp
Cisco CallManager A For Cisco IP Telephony Solutions	dministration	Cisco Systems
Service Paramet	ers Configuration	Select Another Server/Service Parameters for all servers
Current Server : 192.168.1.1		
Current Service: Cisco Extensi	ion Mobility	1
Status: Ready		
Update Set to Default A	dvanced	
All parameters apply to the current se	rver except those in the Clusterwide group(5)
Clusterwide Parameters (Para	meters that apply to all servers)	
Clusterwide Parameters (Para Parameter Name	meters that apply to all servers) Parameter Value	Suggested Value
Clusterwide Parameters (Para Parameter Name Enforce Maximum Login Time*	meters that apply to all servers) Parameter Value False	Suggested Value
Clusterwide Parameters (Para Parameter Name Enforce Maximum Login Time* Maximum Login Time (Hours: Minutes)*	Parameters that apply to all servers) Parameter Value False 8:00	Suggested Value False 8:00
Clusterwide Parameters (Para Parameter Name Enforce Maximum Login Time* Maximum Login Time (Hours: Minutes)* Maximum Concurrent Requests*	Parameters that apply to all servers) Parameter Value False 8.00 3	Suggested Value False 8:00 3
Clusterwide Parameters (Para Parameter Name Enforce Maximum Login Time* Maximum Login Time (Hours: Minutes)* Maximum Concurrent Requests* Multiple Login Behavior*	Parameters that apply to all servers) Parameter Value False 8:00 3 Auto Logout	Suggested Value False 8:00 3 Multiple Logins Not Allowed
Clusterwide Parameters (Para Parameter Name Enforce Maximum Login Time* Maximum Login Time (Hours: Minutes)* Maximum Concurrent Requests* Multiple Login Behavior* Alphanumeric User ID*	Parameters that apply to all servers) Parameter Value False 8:00 3 Auto Logout True	Suggested Value False 8:00 3 Multiple Logins Not Allowed
Clusterwide Parameters (Para Parameter Name Enforce Maximum Login Time* (Hours: Minutes)* Maximum Concurrent Requests* Multiple Login Behavior* Alphanumeric User ID* Remember the Last User Logged In*	Parameter Value Palse Raise Roo Roo Roo Roo Roo Roo Roo Roo Roo Ro	Suggested Value False 8:00 3 Multiple Logins Not Allowed True False

In the Cisco CallManager several Service Parameters for the ExtensionMobility service can be changed.

One of the required settings is the "Multiple Login Behavior". This will control the procedure of the login request. The required setting is "Auto Logout". This feature will automatically logout or disconnect a user if he/she is already logged into an other IP Phone. So this setting will automatically logoff a user if he/she is already logged on at an other extension.

All the other settings may be changed depending on the situation.



Service settings

Verify the Cisco Extension Mobility Service is activated on <u>all</u> CallManager Servers.

arm Trace	Tools Application Help	
Cisco CallM or Cisco IP Telephony	Lanager Serviceability	Cisco Systems illiuilliu
ervice A	ctivation	<u>Control Center</u>
ervers	Server: 192.168.1.1	
192.168.1.1	Status: Ready	
	Update Set Default	
	Service Name	Activation Status
	NT Service	
	Cisco CallManager	Activated
	Cisco Tftp	Activated
	Cisco Messaging Interface	Activated
	Cisco IP Voice Media Streaming App	Activated
	Cisco CTIManager	Activated
	Cisco Telephony Call Dispatcher	Activated
	Cisco MOH Audio Translator	Activated
	Cisco RIS Data Collector	Activated
	Cisco Database Layer Monitor	Activated
	Cisco CDR Insert	Deactivated
	Cisco Extended Functions	Activated
	Cisco Serviceability Reporter	Activated
	Cisco CTL Provider	Activated
	Cisco Certificate Authority Proxy Function	Deactivated
	Tomcat Web Service	
	Cisco Extension Mobility	Activated
	Cisco IP Manager Assistant	Activated

Verify the Cisco Extension Mobility Service is running on <u>all</u> CallManager Servers.

Alarm T <u>race</u>	Tools Application <u>Help</u>								
Cisco CallM For Cisco IP Telephony	Cisco CallManager Serviceability								
Control Ce	enter		Service Activation						
Servers	Servers Server 102 160 1 1								
192.168.1.1	Status: Ready								
	Start Stop Restart								
	Service Name	Status	Activation Status						
	NT Service		A						
	O cisco calimanager		Activated						
			Activated						
	O Cisco Messaging Interface		Activated						
	Cisco IP Voice Media Streaming App		Activated						
	O Cisco Chimanager		Activated						
	Cisco Telephony Call Dispatcher		Activated						
	Cisco MOH Audio Translator		Activated						
	O Cisco RIS Data Collector		Activated						
	 Cisco Database Layer Monitor 		Activated						
	O Cisco CDR Insert		Deactivated						
	 Cisco Extended Functions 		Activated						
	 Cisco Serviceability Reporter 		Activated						
	 Cisco CTL Provider 		Activated						
	Cisco Certificate Authority Proxy Function		Deactivated						
	Tomcat Web Service	51.74	A set in set of						
	Cisco Extension Mobility	N/A	Activated						
	O CISCO IP Manager Assistant	N/A	Activated						
	Cisco WebDialer	N/A	Activated						



Device settings

The following settings are a required field on every phone or device:

- 1) **Description**: Administrative field to identify each phone in the system
- Enable Extension Mobility Feature: to activate the possibility to logon to this specific phone
- 3) **PC Voice VLAN Access:** is a required field and must always be enabled. This field enables the ALM to detect the phone.
- 4) **Web Access Enabled**: is a required field and must always be enabled.
- 5) Optional the Extension Mobility (XML) service can be activated on the phone, when the ALM application does not start or does not exists on the PC a user can always login manually on the phone.

Cisco CallMan or Cisco IP Telephony Solut Phone Conf	ager Administration	Add a naw chone Add a naw chone Add/Vadate Speed Dals Subscribe/Unsukscribe Services Add/Vadate Service URL Buttons
Directory Numbers Base Phone Line 1 - 5555 (no	Phone: SEP000BFD9088D2 Registration: Registered wi IP Address: <u>192.168.1.102</u> Status: Ready	Back to Find/List Phones (Extension Mobility Phone Powered by ALM) ith Cisco CallManager 192.168.1.1
Partition)	Copy Update Delete	ResetPhone
	Phone Configuration (Model	l = Cisco 7960)
	Device Information	
_	MAC Address*	000BFD9088D2
	Description	Extension Mobility Phone Powered by ALM
	Owner User ID	(Select User ID)
	Device Pool*	Default (View details)
	Calling Search Space	< None >
	AAR Calling Search Space	<none></none>
	Media Resource Group List	< None >
	User Hold Audio Source	< None >
	Network Hold Audio Source	< None >
	Location	< None >
	User Locale	< None >
	Network Locale	< None >
	Device Security Mode	Use System Default
	Product Specific Configuration	o Fi
	Disable Speakerphone	
	Disable Speakerphone and Head	iset 🔲
	Forwarding Delay*	Disabled
	PC Port*	Enabled
	Settings Access*	Enabled
	Gratuitous ARP*	Enabled
	PC Voice VLAN Access*	Enabled
	Video Canabilities*	Disabled

Disable

Enabled

~

Back to top of page Back to Find/List Phones

Auto Line Select*

indicates a required item. * Indicates time on Publisher

Neb Access*







Line settings

Every phone requires a line to place and accept calls. This is not a required field for the ALM to function correctly.

				_				
stem Route Plan Service Feature Devic	ce User Applica	tion Help					MLPP Alternate Party Se	ttings
Cisco CallManager Administr	ration		CISCO SYSTEMS				Target (Destination)	
or Cisco IP Telephony Solutions							Calling Search Space	<none></none>
irectory Number Conf	iguratio		Configure Device (SEP0008FI	D9088D2)			No Answer Ring Duration	(seconds)
Shectory Number Com	iyuratio	•	Dependency	y Records			Line Settings for all Devi	ces
Associated With Directory Number	r: 1000						Alerting Name	ALM Phone
ADP000BFD9088D2 Status: Ready	his Directory Numb	er automatically re	nests the accordent devices				Line Settings for this De	vice
SEP0008FD9088D2	nove from Device	Reset	levices				Display (Internal Caller ID)	AI M Phone
Directory Number	r						olopidy (internal caller to)	
Directory Number*	1	00					Line Text Label	ALM Phone
Partition		None >	×		<u> </u>	ה	External Phone Number Ma	isk
Directory Number	r Settings					/	Message Waiting Lamp Pol	icy Use System Policy 💌
Voice Mail Profile		None > 💌				- ,	Rina Settina (Phone Idle)	Use System Default
	((hoose <none></none>	to use default)				Ping Setting (Phone Active	12** Use System Default M
Calling Search Span	ce <	None >	×				Multiple Call / Call Waiti	ng Settings
AAR Group	<	None > Y					Multiple Call 7 Gall Walt	ing settings
User Hold Audio So	urce <	None >	×				Maximum Number of Calls*	4 (1 - 200)
Network Hold Audio	Source	None >	×			1	Busy Trigger*	2 (<= Max. Calls)
Auto Answer	4	uto Answer Off	¥				Forwarded Call Informat	tion Display
Call Forward and	Pickup Setting						Caller Name	Caller Number
	Voice M	ill Coverage/ Destination	Calling Search Space				Redirected Number	Dialed Number
Forward All			< None >	~			* indicates required item; char	nges to Line or Directory Number settings require restart.
Forward Pure Teles			< None >				** Ring Setting (Phone Active) in progress.	applies to this line when any line on the phone has a call
Forward Busy Inter	mal 🗆		(None)	~			Note:	
To word buby Exce	_		Shulle 2				If you are using a language ot Label text, make sure the corr	her than English for Display (Internal Caller ID) or Line Te ect character set (shown below) is selected. Text displays
Forward No Answer	r Internal		<none></none>	~			incorrectly if the wrong charac character sets.)	terset is selected. (English characters are included in all
Forward No Answer	r External		< None >	¥			Character Set Western F	uronean (Latin 1)

The "Line Text Label" field is the text which is displayed on the phone to identify a phone or a user. Because the phone in this example is only an internal phone and can only be used in combination with ExtensionMobility and ALM.

Using an internal Partition and CallingSearchSpaces the phone can be restricted to only dial internal numbers. This will prevent unauthorized usage of the phone if no user has logged on. This way the costs can be reduced.



Device Profile

A User Device Profile is the profile which will be loaded on the phone when a user logs in using ALM. The settings which where previously configured on the phone will not be available anymore.

• Optional the Extension Mobility service can be activated on the phone, when the ALM application does start on the PC a user can always login manually on the phone.



Device profile directory number settings

The Directory Number Configuration will be loaded on the specific phone when a user logs on.



All basic users settings can be configured in the field above. So a DN, Partition and CallingSearchSpace, also the forwards to voicemail or another internal or external destination can be configured on the phone.



Line Settings for all Devices				
Alerting Name	ALM Activated			
Line Settings for this Device				
Display (Internal Caller ID)	ALM Activated			
Line Text Label	ALM Activated			
External Phone Number Mask				
Message Waiting Lamp Policy	Use System Policy 💌			
Ring Setting (Phone Idle)	Use System Default 💌			
Ring Setting (Phone Active)**	Use System Default 💌			
Multiple Call / Call Waiting S	ettings			
Maximum Number of Calls*	4 (1 - 200)			
Busy Trigger*	2 (<= Max. Calls)			
Forwarded Call Information	Display			
Caller Name	Caller Number			
Redirected Number	Dialed Number			
* indicates required item; changes t	o Line or Directory Number settings require restart.			
** Ring Setting (Phone Active) appli in progress.	es to this line when any line on the phone has a call			
N Progress. Note: If you are using a language other than English for Display (Internal Caller ID) or Line Text tabel text, make sure the correct character set (shown below) is selected. Text displays incorrectly if the wrong characterset is selected. (English characters are included in all character sets).				
Character Set Western Europe	ean (Latin 1) 💌			



Creating a user

The UserID is a required field, this field is the username which is send to the CallManager when a user logs in.

The ALM application will send this username to the system so the user does not have to enter their username manually on the phone anymore using the keypad.

System	Route Plan	Service	Feature Device	User Applicati	ion Help		
Cisco For Cisco	CallMa IP Telephony So	inager	Administra				Cisco Systems
Use	r Confi	gurat	ion				<u>Add a New User</u> Back to User List
Applicat	ion Profiles a	ſ	User : New Us	ser			
< <u>No Ap</u> Applicati after the directory	plication Prof on Profiles can new User is in '.	iles> be accessed serted in the	d Status: Ready				
			First Name		ALM		
			Last Name*		sample-user		
			User ID*		aim		
			User Password	i*			
			Confirm Passw	rord*			
			PIN *				
			Confirm PIN *				
			Telephone Nur	mber	5555		
			Manager User	ID			
			Department				
			User Locale		< None >	~	
			Enable CTI Ap	plication Use			
			Enable CTI Su	per Provider			
			Call Park Retri	eval Allowed			
			Enable Calling Modification	Party Number			
			* indicates requi	red item.			

The previously created DeviceProfile has to be attached to a user so the system knows which profile has to be loaded on the phone based on the entered UserID.

Click on the "Extension Mobility" link to attach a DeviceProfile.



Use the search function to select the DeviceProfile created in the previous screen for this specific user.



System Route	e Plan Service	Feature	Device Us	er Applica	ation H	elp		
Cisco Ca For Cisco IP Tele	IIManager	Admi	nistratio	n				CISCO SYSTEMS
Extens	ion Mobi	lity					<u>Us</u> B	er Configuration Add a New User ack to User List
Profiles assig	gned to: alm (sa	mple-us	er, ALM)					
Status: Ready								
Available Pr	ofile List Filters							
Find profiles v	where:							
User Device F	Profile 💌	Profile N	ame 💌	begins v	vith 💌			
							Sel	ect Profiles
								Filter tation
				1	unilable du	nuine er	ofilo(c) listed :	Filter Active
				101	0 device	nrofilei	(c) controlled :	it last search
					0 000100	dovico	nnfile(s) selec	ted currently
					0	acvice	prome(sy serve	teu eurrentiy.
🔲 Enable Au	thentication Pro>	y Rights						
Available Pro	ofiles							
Check All c	in Page	🗹 Che	eck All in Sea	arch) No Di No Pr	efault Profile imary Extensio	n
Туре	Profile Name		Description		Default	Profile	Primary Ext.	Extension
7950	Device Profile User	- ALM	Device Profile by ALM	e powerd	۲		۲	5555
Update Se	lected							



Q & A

This Q&A provides an overview of commonly asked questions about the ALM.

- The device and the profile can have the same DN, this does not affect the operation of the ALM;
- If the device has no DN, this will not affect the operation of the ALM;
- From release 3 and up ALM supports multiple profiles;
- Access to the webpage of the phone is only required for automatic phone detection;
- Using a phone with no PC Port is supported, refer to the administration and configuration manual for more information;
- all phones with support for EM are supported by ALM;
- Integration of the Cisco CallManager with Microsoft Active Directory has not been tested yet but should work without any issues;
- The UserID is not case-sensitive;