# ALM callmanager configuration Manual for CUCM9



Oude Oeverstraat 120-4 6811 JZ Arnhem The Netherlands t: +31(0) 88 1221 800 f: +31(0) 88 1221 899 www.rsconnect.net info@rsconnect.net





# **Configuration manual ALM**

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

Only the Cisco <sup>®</sup> Unified Communications Manager (CUCM) 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.

### System settings

Log on to the Cisco Unified CM Administration page

• On the CUCM Administration page click on "System" followed by "Service Parameters"

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System 👻	Call Routing 👻	Mec a Reso	urces 🔻	Advanced Features	Device 👻	Application -	User Management 👻		Help
Cisco Phone Date/1	Unified CM Unified CM Group NTP Reference Time Group		Iress V	begins with V		Find	Clear Filter		
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Servio	ce Parameters								
Licens Geolo Geolo	ation Server	) }							

- Select the Publisher / Primary CUCM Server
- Select the Cisco Extension Mobility Service



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System 👻 Call F	Routing 👻 Media Resources 👻 Advanced Features 👻 De	evice 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻
Service Paran	neter Configuration	/
— <b>Status</b> i Status: Re	ady	
— Select Serve	er and Service	
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Service*	Not Selected 🗸	]
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Š	Cisco CTL Provider (Inactive) Cisco CallManager (Active) Cisco CallManager SMP Service (Inactive) Cisco Certificate Authority Proxy Function (Inactive) Cisco DRF Local (Active) Cisco DRF Master (Active) Cisco DirSync (Inactive) Cisco DirSync (Inactive) Cisco Extended Functions (Inactive) Cisco IP Manager Assistant (Inactive) Cisco IP Manager Assistant (Inactive) Cisco Log Partition Monitoring Tool (Active) Cisco Log Partition Monitoring Tool (Active) Cisco Messaging Interface (Inactive) Cisco TAPS Service (Inactive) Cisco TAPS Service (Inactive) Cisco TAPS Service (Inactive)	een modified to their original default values.
	Cisco Trace Collection Service (Active) Cisco Trace Verification Service (Active) Cisco WebDialer Web Service (Active)	

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cisco	For Cisco Unified Communica	ations Solutions	administrator	Search Documentation About	Logout
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Service P	arameter Configuration		Rela	nted Links: Parameters for All Server	s 🔻 Go
🔚 Save	🧬 Set to Default 🔍 Advanced				
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In the CUCM several Service Parameters for the ExtensionMobility service must be changed.

One of the required settings is the "Intra-Cluster Multiple Login Behaviour". 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.

	Cisco Unified Serviceability For Cisco Unified Communications Solutions	Navigation Cisco Unified Serviceability 🚽 Go administrator About Logout
<u>A</u> larm	i ★ Irace ★ Tools ★ Snmp ★ Help ★	
Serv	ice Activation	Related Links: Control Center - Feature Services 👻 Go
	Save 🧬 Set to Default 🔇 Refresh	
	atus tatus : Ready	
- Se	lect Server	
-	Check All Services	
	Check All Services Services	
СМ	Check All Services Services Service Name	Activation Status
СМ	Check All Services  Services  Service Name Cisco CallManager	Activated
CM V	Check All Services  Services  Service Name  Cisco CallManager  Cisco Tftp	Activated Activated
СМ	Check All Services  Services  Service Name  Cisco CallManager  Cisco Tftp  Cisco Messaging Interface	Activated Activated Deactivated
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CM V	Check All Services  Service Name  Cisco CallManager  Cisco Tftp  Cisco Messaging Interface  Cisco Unified Mobile Voice Access Service  Cisco IP Voice Media Streaming App	Activated Activated Deactivated Deactivated Deactivated Deactivated
СМ Г Г Г Г	Check All Services  Service Name  Cisco CallManager  Cisco Offtp  Cisco Messaging Interface  Cisco Unified Mobile Voice Access Service  Cisco IP Voice Media Streaming App  Cisco CTIManager	Activated Activated Deactivated Deactivated
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#### Verify the Cisco Extension Mobility Service is running on <u>all</u> CallManager Servers.

CM Services								
	Service Name	Status:	Activation Status	Start Time	Up Time			
0	Cisco CallManager	Started	Activated	Wed Jul 3 14:13:06 2013	0 days 02:49:19			
0	Cisco Messaging Interface	Not Running	Deactivated					
0	Cisco Unified Mobile Voice Access Service	Not Running	Deactivated					
0	Cisco IP Voice Media Streaming App	Not Running	Deactivated					
	Cisco CTIManager	Not Running	Deactivated					
С	Cisco Extension Mobility	Started	Activated	Wed Jul 3 14:22:57 2013	0 days 02:39:28			
)	CISCO DHCP Monitor Service	Not Running	Deactivated					
D	Cisco Intercluster Lookup Service	Not Running	Deactivated					
D	Cisco Location Bandwidth Manager	Not Running	Deactivated					
0	Cisco Dialed Number Analyzer Server	Not Running	Deactivated					
С	Cisco Dialed Number Analyzer	Not Running	Deactivated					
Э	Cisco Tftp	Started	Activated	Wed Jul 3 14:13:09 2013	0 days 02:49:16			



### **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
- 2) 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.

cis				Cisco Unified CM Administration 🗸 🕻
System	▼ Call Routing ▼ Media Resources ▼ Advanced Fe	eatures - Device - Application -	User Management 👻 Bulk Administration 👻 Help	-
Phone	Configuration		Related Links: Back To Find/List	✓ G
🔒 s	ave 🗙 Delete 📔 Copy 睯 Reset 🧷 Apply	Config 🕂 Add New		
Statu	s			
Asso	ciation Information	Phone Type		
	Modify Button Items	Product Type: Cisco 9971		
1	Time [1] - 2001 (no partition)	Device Protocol: SIP		
2	The Line [2] - Add a new DN	Device Information		
3	Add a new SD	Registration	Registered with Cisco Unified Communications	Manager 192.168.1.228
4	Ca Add a new SD	IP Address Active Load ID	<u>192.168.1.101</u>	
4		Active Load ID Inactive Load ID	sip9971.9-3-1-33 sip9971.9-2-1	
5	Can Add a new SD	Download Status	Unknown	
6	Can Add a new SD	Device is Active		
	Unassigned Associated Items	Device is trusted		
7	Add a new SD	MAC Address*	D0574CF71C90	
8	All Calls	Description	SEPD0574CF71C90	
9	Add a new BLF Directed Call Park	Device Pool*	Default	View Details
10	Call Park	Common Device Configuration	< None >	View Details
11	Call Pickup	Phone Button Template*	Standard 9971 SIP	~
12	CallBack	Common Phone Profile*	Standard Common Phone Profile	~
13	Group Call Pickup	Calling Search Space	< None >	~
14	Hunt Group Logout	AAR Calling Search Space	< None >	~
15	Intercom [1] - Add a new Intercom	Media Resource Group List	< None >	~





Product Specific Configuration Layout		
?	Param	Override Common Settings
Disable Speakerphone		
Disable Speakerphone and Headset		
PC Port *	Enabled V	
Back USB Port*	Enabled V	
Side USB Port*	Enabled V	
Cisco Camera*	Disabled V	
Video Capabilities*	Disabled V	
Enable/Disable USB Classes	Mass Storage Human Interface Device	
SDIO *	Audio Class Disabled	
Bluetooth *	Enabled V	
Wifi *	Enabled V	
Bluetooth Profiles*	Handsfree Human Interface Device	
Settings Access*	Enabled 🖌	
Gratuitous ARP*	Disabled V	
PC Voice VLAN Access*	Enabled 🖌	
Web Access*	Enabled V	$\checkmark$
Show All Calls on Primary Line*	Disabled V	
Days Display Not Active	Sunday Monday Tuesday	
Display On Time	07:30	

Subscribed Cisco IP Phone S	Services for SEP001A2F8DFA32
🔚 Save 🢡 Help	
- Status	
Add successful	
Service Subscription: Extension	Mobility 5
Service Information ——— Service Name*	Extension Mobility
ASCII Service Name*	Extension Mobility
Subscribed Services	
Subscribe a New Service	
Extension Mobility	
- Unsubscribe Delete	
(i) *- indicates required item	1.



# Line settings

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

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CISCO For Cisc	o Unified	Communications Solutions						cmadminis	trator	About	Logo	ut
System - Call Routing	- Media R	esources 👻 Voice Mail 👻 Device	🔹 👻 Applica	ation 👻 Us	er Management	<ul> <li>Bulk Admi</li> </ul>	nistration 👻	Help 👻				
Directory Number C	onfigurati	ion			n	elated Link	Config	iro Dovico (i	SED001A			io
	onngurut			_	ĸ		s: Coning	ire Device (.	SEPOOIA.	2F6DFA32		<u> </u>
Save												
— Status —												^
Status: Ready												
<b>U</b>												
— Directory Number	Informati	on										1
Directory Number*	10110											
Route Partition	< None >		~									μ
Description	phone not	logged in							_			
Alerting Name									1			
ASCII Alerting Name												
Active												
												1
<ul> <li>Directory Number</li> <li>Voice Mail Profile</li> </ul>	Settings -	- News -			1.00							
Calling Search Space		< None >		~	Choose <n< td=""><td>one&gt; to use :</td><td>system der</td><td>auit)</td><td></td><td></td><td></td><td></td></n<>	one> to use :	system der	auit)				
Presence Group*		Standard Presence group		~								
User Hold MOH Audio	Source	< None >		~	3							
Network Hold MOH Au	idio Source			~	2							
Auto Answer*		Auto Answer Off		~	-							
					2							1
aliah. Cisco U	Unified C	CM Administration					Na	vigation Cisco	Unified CM	Administrat	tion 💌	Go
CISCO For Cisco	Unified Con	nmunications Solutions						ccmadn	ninistrator	About	Logo	
System 👻 Call Routing 👻	Media Resou	irces 👻 Voice Mail 👻 Device 👻 App	plication 👻 Us	ser Managemei	nt 👻 Bulk Admin	nistration 👻 Hel	þ 🗕					
Directory Number Con	figuration					Relate	d Links: 🤇	onfigure Dev	ice (SEP00	1A2F8DFA3	32) 🗙	Go
Save												
Jaro Jaro												^
- Line 1 on Device SEP		FA32										٦
Display (Internal Caller		tory number for internal calls. If you	specify a pur		t for a line app rson receiving a					e instead of	a	
ASCII Display (Interna				]								
Caller ID) Line Text Label				-								
ASCII Line Text Label		se log on										
External Phone Number		se log on										
Mask										_		
Visual Message Waiting Indicator Policy*	Use	System Policy	~							2		
Ring Setting (Phone Id	e)* Use	System Default	~									
Ring Setting (Phone Ac	tive) Use	System Default	~	Applies to t	his line when an	y line on the p	hone has a c	all in progress				
Call Pickup Group Audi Alert Setting(Phone Idle	o Use	System Default	~									
Call Pickup Group Audi	o Use	System Default	~									
Alert Setting(Phone Act Monitoring Calling Sear												
Space Space	< No	one >	~									Ξ

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 were previously configured on the phone will not be available anymore.

• Optional the Extension Mobility IP Phone 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.



alo		ition		Navigati	ion Cisco Unified CM A	dministration 💌 GO
cis	For Cisco Unified Communications Soluti	ons			ccmadministrator	About Logout
System	▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼	Device - Application - User	Management 👻 Bulk Administration 👻	Help 👻		
Device	e Profile Configuration		Related Lini	ks: Back To Find/Li	ist	✓ Go
📄 s	ave 🗙 Delete 📄 Copy 🕂 Add New					
— Stati	us					^
is	itatus: Ready					
- 4550	nciation Info	User Device Profile Infor	mation			
	Modify Button Items		Cisco 7960			
1	Ins Line [1] - 4312 (no partition)	Device Protocol:	SCCP			
1		Device Profile Name*	Device Profile - ALM user1			
2	The Line [2] - Add a new DN	Description	Device Profile - ALM user1			
3	Add a new SD	User Hold MOH Audio Source	< None >	~		=
4	Can Add a new SD	User Locale	< None >	~		
5	Add a new SD	Phone Button Template*	Standard 7960 SCCP	~		
	<u> </u>	Softkey Template	< None >	×		
6	Contract Add a new SD	Privacy*	Default	~		
	Unassigned Associated Items	Join Across Lines	Default	~		
7	Carl Add a new SD					
8	Add a new SURL	Ignore Presentation Indic	ators (internal calls only)			
9	Can Add a new BLF SD	Do Not Disturb DND Incoming Call Alert				
	Market Street Call Park	DND theorning call wert	< None >	~		
10	Add a new bur Directed Call Park	- Expansion Module Inform				
11	Privacy	Module1 < None >	nation 🗸			
12	None	Module2 < None >	×			
		< None >	×			

### **Device profile directory number settings**

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

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cisco	For Cisc	o Unified Communic	cations Solut	ions					ccmadministrator	About Logo
System 👻	Call Routing	<ul> <li>Media Resources</li> </ul>	Voice Mail 🔻	Device -	Application -	User Management 👻	Bulk Administration 👻	Help 👻		
Directory	Number C	onfiguration							Related Links: Configure De	vice (user1) 🔽 🖸
Save	X Delete	省 Reset 🕂 Ad	ld New							
- Status -										
i) Status	s: Ready									
		Information ——								
Directory I	Number*	4312								
Route Part	ition	< None >			~					
Description	r I	Device Profile - user1								
Alerting Na	me	user1								
ASCII Aler	ting Name	user1								
Allow C	Control of D	evice from CTI								
Associated	Devices	user1								
					E	dit Device				
						Edit Line Appear	ance			
		**								
Dissociate	Devices									

All basic user 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.

	ed CM Administration Solutions
	ccmadministrator About Logo
System - Call Routing - Media	a Resources 👻 Voice Mail 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻
Directory Number Configur	ation Related Links: Configure Device (user1) [♥ ] G
🔚 Save 🗙 Delete   🍟 R	eset 🛟 Add New
Line 1 on Device user1 —	
Display (Internal Caller ID)	user1 Display text for a line appearance is intended for displaying text such as a name instead of a directory 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)	user1
Line Text Label	user1
ASCII Line Text Label	user1
External Phone Number Mask	
Visual Message Waiting Indicator Policy*	Use System Policy
Ring Setting (Phone Idle)*	Use System Default
Ring Setting (Phone Active)	Use System Default 💌 Applies to this line when any line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Default
Monitoring Calling Search Space	< None >



# **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.

CISCO For Cisco Unit	fied Communications Solutions	
System - Call Routing -	Media Resources - Advanced Features - Device - A	Application 👻 User Manag
End User Configuration		
📊 Save 🗙 Delete 🗧	Add New	
-Status		
i Status: Ready		
-User Information ———		
User Status	Active Local User	
User ID*	user1	
Password	•••••	Edit Credential
Confirm Password	•••••	
PIN	•••••	Edit Credential
Confirm PIN	•••••	
Last name*	user1	
Middle name		
First name		
Directory URI		
Telephone Number		
Mail ID		
Manager User ID		
Department		
User Locale	< None >	•
Associated PC		_
Digest Credentials		
Confirm Digest Credentials		

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.

Scroll down to the "Extension Mobility" field to attach the DeviceProfile.



Extension Mobility					
Available Profiles	user_profile_10 user_profile_11 user_profile_12 user_profile_13 user_profile_14	<			
*∧					
Controlled Profiles	user_profile_1		×		
Default Profile	Not Selected 🗸				
BLF Presence Group*	Standard Presence group				
SUBSCRIBE Calling Search Space	< None > V				
SUBSCRIBE Calling Search Space < None >    Image: Space description of Device from CTI   Image: Device from CTI   Image: Device from CTI					

# 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;
- The UserID is not case-sensitive;
- Currently ALM 4 does not support EMCC;

### **Ordering Information**

Please send your quotation requests to sales@rsconnect.net along with the number of licenses you require.

1 license is required for 1 PC/Phone combination, the license is not user or phone based. If two employees use 1 computer in combination with 1 IP Phone you will require 1 license.

# **Additional Information**

For any additional information please contact or visit:

- United Kingdom: +44 203 608 8259
- Other countries: +31 88 1221 800
- http://www.rsconnect.net
- sales@rsconnect.net