Register accounts on CUCM Platform

Note: Before the process, please reset the phone to factory default settings.

1. Create User

1) Go to User Management-> End User, press Add New button.

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cisco	For Cisco Unified	Communications Solutions				cue	madmin Search De	ocumentation Ab	out Logout
System 👻	Call Routing - Medi	a Resources • Advanced Features •	Device • Application •	User Management 👻	Bulk Administration	✓ Help ✓			
Find and	List Users		F	Application User		_			
Add N	New 🔠 Select All	Clear All		End User					
u				User/Phone Add	,				
Status -				SIP Realm	ł				
(1) 4 re	cords found			User Settings	•				
<u> </u>				. Self-Provisioning	-				
User	(1 - 4 of 4)			Assign Presence	Users			Rows per	Page 50 V
Find User	where First name	✓ begins with ✓		Find Clear Filter	4				
	User ID 🗖	Meeting Number	First Name	Last Name	Department	Directory URI	User State	us	User Rank
	<u>4201</u>	4201	42	01			Enabled Local User	1	
	3001	3001	30	01			Enabled Local User	1	
	Gordon Test?		Ca	0			Enabled Local User	1	
	Gord affest1		Ca	0			Enabled Local User	1	
Add Nev	v Select All Clear	All Delete Selected							

- 2) Input User information.
 - a. User ID: User name in CUCM, used for Register Name in

phone web interface for registering account.

- b. **Password**: Password for user in CUCM.
- c. Last Name: Required.
- d. Digest Credentials: Used for register Password in phone web

interface for registering account.

cisco Un	nified CM Administration fied Communications Solutions	Reviquitos <mark>Cisco Unified CH Administration v C</mark> cucmadmin Search Documentation About Logo	jo ut
System Call Routing	Media Resources • Advanced Features • Device • Applic	ation 👻 User Management 👻 Bulk Administration 👻 Help 👻	
End User Configuration		Related Links: Back to Find List Users 🗸 🔀	0
Save			
User Information			*
User Status	Enabled Local User		
User ID*	GordonTest	register name	
Password			
Confirm Password	••••		
Self-Service User ID			
PIN			
Confirm PIN			
Last name*	Cao		
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/Site Code			
Digest Credentials			
Confirm Digest Credential		password	
11			

2. Create Device

1) Go to Device-> Phone, press Add New button.

ahahi	Cisco U	nified CM Administra	ation				Navigation Cisco Unifie	ed CM Admi	inistration 🛩 Go		
cisco	For Cisco Ur	nified Communications Solutions				cucmadr	nin Search Document	ation	About Logout		
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Find and	List Phones		CTI Rou	te Point		Relat	ed Links: Actively Logge	ed In Devi	ce Report 🛩 Go		
	New E Selec	t All 🕀 Clear All 🛶 Delete Se	Gatekee	per	lected						
			Gatewa	(
Status-	itatus Phone Phone										
(i) 7 re	cords found		Trunk		ť						
<u> </u>			Remote	Destination							
Phone	(1 - 7 of 7)	/	Device	Settings •				Rows p	er Page 50 🗸		
Find Phon	e where Device	e Name 🗸 begins	with 🗸	Find C	lear Filter 🛛 🖨 📟						
			Select item	or enter search text 🗸							
		Device Name(Line) [▲]	Descriptio	n Device Pool	Device Protocol	Status	IPv4 Address	Сору	Super Copy		
	() 061	SEP2C3174C8DE51	SEP2C3124C8DE5	1 <u>Default</u>	SIP	None	None	0	1 to the second		
	(m) ()	SEP525AC7569D44	SEP5C5AC7569D4	14 <u>Default</u>	SIP	None	None	1	r 🕐		
	a	9EP5CE17610CB04	Auto 1004	Default	SIP	Registered with 10.2.1.182	10.81.18.33	ß	r 🕐		
	7811	SEP5CE17610CD1E	Auto 1003	Default	SIP	Registered with 10.2.1.182	10.81.18.25	0	1		
		SEP805EC0333F16	SEP805EC0333F1	6 <u>Default</u>	SIP	Registered with 10.2.1.182	10.81.56.92	ß	1		
	a	SEP805EC0A36A09	SEP805EC0A36A0	9 <u>Default</u>	SIP	None	None	ľù.	1		
	<u>.</u>	SEPE4C72268D3C6	SEPE4C72268D30	6 <u>Default</u>	SIP	None	None	0	1		
Add Nev	w Select All	Clear All Delete Selected Res	set Selected Apply 0	Config to Selected							

2) Select the type of phone you would like to create. We choose Third-

party SIP Device (Advanced), then press Next.

P.S. Advanced for 8 lines, Basic for 1 line only.

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_	Tor cisco onnieu communications solutions		cucmadmin Search Documentation About Logout
System -	Call Routing Media Resources Advanced Features	Device Application User Management Bulk Administration H	Help 👻
Add a Nev	v Phone		Related Links: Back To Find/List 🗡 Go
Next			
- Status -			
U Statu	s: Ready		
- Select the	a type of phone you would like to create		
Selection	type of phone you would like to create		
Phone Ty	pe* Not Selected	v	
	Cisco TelePresence SX10	A	
	Cisco TelePresence SX20 Cisco TelePresence SX20		
Next	Cisco TelePresence TX1310-65		
0	Cisco TelePresence TX9000		
(i) *- in	dicat Cisco TelePresence TX9200		
ŏ	Cisco Unified Client Services Framework		
1 **-	Creat Cisco Unified Communications for RTX	to enable template-based phone creation.	
	Cisco Unified Personal Communicator		
	Generic Multiple Screen Room System		
	Generic Single Screen Room System		
	H.323 Client		
	IMS-integrated Mobile (Basic)		
	IP-STE		
	Nokia S60		
	Third-party AS-SIP Endpoint		
	Third-party SIP Device (Advanced)	-	
	Transnova S3	v l	

- 3) Input User information.
 - a. MAC Address of device.
 - b. Owner User ID: Select the User you created at Step 1, to

associate device with User.

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Phone Configuration							Related Links: Back	To Find/List 🗡	Go
Save									
Device is not trusted									*
MAC Address*	805EC0710056								
Description	GordonW80DM								14
Device Pool*	Default	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						
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 O Anonymous (Public/Shared Space)								
Owner User ID*	GordonTest	- I	User create	ed					
Mobility User ID	< None >	~							
Use Trusted Relay Point*	Default	~							
Always Use Prime Line*	Default	~							
Always Use Prime Line for Voice Message*	Default	~							

- c. Device Security Profile: Choose a default or customized profile.
- d. SIP Profile: Standard SIP Profile.
- e. **Digest User**: Select the User you created at Step 1, ensure successful authentication during registration.

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P	hone Configuratio	n								Related Links: Back	To Find/List	∽ Go
1	Save											
ŋ		,				·						
l	L											Î
1	Protocol Specific I	Information –										
	BLF Presence Group	*	Standard Presence group		~							
	MTP Preferred Origin	nating Codec*	711ulaw		\sim							
	Device Security Prof	file*	Third-party SIP Device Advan	ced - Standard	SIP No 🗸	default or created						
	Rerouting Calling Se	earch Space	< None >		~							
	SUBSCRIBE Calling	Search Space	< None >		~							
	SIP Profile*		Standard SIP Profile		~	/iew Details						
	Digest User		GordonTest		~	User created						
	Media Terminatio	on Point Requir	red									
	Unattended Port											
	Require DTMF Re	eception										
	Allow Presentation	on Sharing usir	ng BFCP									
	Allow IX Applicat	ole Media	-									

3. Add Numbers

1) After creating device, press Line [1]-Add a new DN on the left side

of this page.

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CISCO For Cisco Unified Comm	unications Solutions			cucmadmin Sea	rch Documentation	About Logout
System • Call Routing • Media Reso	ources • Advanced Features • Device •	Application • User Management •	Bulk Administration • Help •			
Phone Configuration				Related Links: Bac	k To Find/List	Ƴ Go
Save 🗙 Delete 🗋 Copy	🞦 Reset 🛛 Apply Config 🕂 Add New	,				
Status						î
Add successful						
Association	Phone Type					
Modify Button Items	Product Type: Third-party SIP De Device Protocol: SIP	vice (Advanced)				
1 The Line [1] - Add a new DN						
2 The [2] - Add a new DN	Real-time Device Status					
3 •ras Line [3] - Add a new DN	IPv4 Address: 10.81.56.33					
4 The Line [4] - Add a new DN	Active Load ID: None					
5 Ine [5] - Add a new DN	Download Status: None					
6 The Line [6] - Add a new DN	Device Information					
7 •m: Line [7] - Add a new DN	Device is Active					
8 •rat Line [8] - Add a new DN	A Device is not trusted					
17H5	MAC Address*	805EC0710056				
	Description	GordonW80DM				

2) Input a number you want, for registering next step.

P.S. Need to press Save button **twice** to update the Directory Number.

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Directory N	irrectory Number Configuration Related Links: Configure Device (SEP805EC0710056) 🗸 Go											
Save	X Delete	Preset 😭	🧷 Appl	y Config 🕂 /	dd New							
Status	Press Save	button twi	ce								^ ·	
Add at	Iccessful											
	100030101											
Directory	Number Inf	ormation —										
Directory N	lumber*	0900						Urgent Priority				
Route Parti	tion	< None	>				~					
Description												
Alerting Na	me											
ASCII Alert	ing Name											
External Ca	all Control Pr	ofile < None	>				×					
Associated	Devices	SEP805E	C071005	5			ţ	Edit Device Edit Line Appearance	•			

4. Register on web Interface

- 0) Choose **TCP** transport type.
- 1) **Register Name**: Input the **Digest User** in Step 1.
- 2) Username: Input the Directory Number in Step 3.
- 3) **Password**: Input the **Digest Credentials** in Step 1.

Yealink W80DM	Account			Ab	out Language v Logout
🚺 Status 🗸 🗸	Register status	Register Failed	0		
Base Station ~	Line Active		0		X
😍 Handset & Account 🔷	Label	DECT_1	0	O	NOTE Handset register
SIP Server Settings	Display Name		0	ii ii	Click here to get more
Handset Registration	Register Name	GordonTest	0	ī	
Registration Center	Username	0900	Directory Image: Directory Image: Object of the second	per D	
😵 Network 🗸 🗸	Password		•	Ĩ	
🗠 Statistics	NAT	Disabled	• 🕜	D	
🕊 Features 🗸	SIP Server	1. CUCM	- 2	ĩ	

If the device we created is Multi-Cell product like W80DM, we need to add more than 8 lines to assign them to different DECT handsets. **The**

steps below are to add and register more than 8 lines in W80DM.

Cisco Unified CM Administration Navigation Cisco Unified CM Administration For Cisco Unified Communications Solutions Caucmadmin Search Documentation About											
System • Call Routing • Media Resources • Advanced F	eatures - Device - Application - User M	tanagement • Bulk Administration • Help •									
Phone Configuration Related Links: Back To Find/List											
🔜 Save 💥 Delete 🖺 Copy 🎦 Reset 🥒 Apply Config 🕂 Add New											
Status Status: Ready											
Association 1 Image: Modify Button Items 1 Image: Modify Button Items 1 Image: Modify Button Items 2 Image: Modify Button Items 3 Image: Modify Button Items 4 Image: Modify Button Items 5 Image: Modify Button Items 6 Image: Modify Button Items 7 Image: Modify Button Items 8 Image: Modify Button Items 0 Image: Modify Button Items 9 Image: Modify Button Items	Phone Type Product Type: Third-party SIP Devic Device Protocol: SIP Real-time Device Status Registration: Unregistered IPV4 Address: 10.81.56.33 Active Load DD: None Download Status: None Device Information	ice (Advanced) 805EC0710056 GordonW80DM Default < None >	✓ Yiew Details ✓ View Details]							

5. Create Additional User

Like in Step 1 before, we create a User named GordonTest_Attach.

cisco	Cisco Unified CM For Cisco Unified Communic	Administration ations Solutions				cucr	Navigation Cisco Unified C nadmin Search Documentation	CM Administration 🛩 Go on About Logout
System 👻	Call Routing - Media Resources	 Advanced Features - Device 	e 👻 Application 👻 I	Iser Management 👻 I	Bulk Administration 👻 I	Help 👻		
Find and L	List Users							
Add N	ew Select All Clear A	JI 🙀 Delete Selected						
User (ords found 1 - 6 of 6)		10-2				,	Rows per Page 50 V
Find User	where First name	Degins with	First Name	d Clear Filter		Disastan UDI	Num Parkin	Line Beak
	User ID -	3001	riist name	3001	Department	Directory Okt	Enabled Local User	1
	4201	4201		4201			Enabled Local User	1
	GordonTest1			Cao			Enabled Local User	1
0	GordonTest_Attach			Cao			Enabled Local User	1
-	GordonTest3			Cao			Enabled Local User	1
	GOLOOITTESTS							*

6. Create Additional Device

Like in Step 2 before, we create a new device and associate the device

with User GordonTest_Attach steps below:

Note:

- 1) Owner User ID: Select the same User ID as in Step 2.
- 2) Digest User: Select the Additional User created at Step 5, ensure

successful authentication during registration.

diala	Cisco Unified CM	Administration			Navigation	Cisco Unified CM Adm	inistration 🗸 Go
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Phone Co	onfiguration				Related Links: Back T	o Find/List	Ƴ Go
Save	ə 🗙 Delete 📄 Copy 睯 F	teset 🛯 🖉 Apply Config 🕂 Add New					
5 77	Line (5) - Add a new DN	L				1	
6 •77	Line [6] - Add a new DN	Device Information				1	
7 •77	Line [7] - Add a new DN	□ Is Active					
77		⚠ Device is not trusted					
8 77	Line [8] - Add a new DN	MAC Address*	805EC0076FD1				
		Description	GordonT48S				
		Device Pool*	Default	✓ Vie	w Details		
		Common Device Configuration	< None >	✓ Vie	w Details		
		Phone Button Template*	Third-party SIP Device (Advanced)	~			
		Common Phone Profile*	Standard Common Phone Profile	✓ Vie	w Details		
		Calling Search Space	< None >	\sim			
		AAR Calling Search Space	< None >	\sim			
		Media Resource Group List	< None >	\sim			
		Location*	Hub_None	\sim			
		AAR Group	< None >	\sim			
		Device Mobility Mode*	Default	✓ Vie	w Current Device Mobility Settings		
		Owner	User Anonymous (Public/Shared Space)				
		Owner User ID*	GordonTest	~			
		Mobility User ID	< None >	~			

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Phone Configuration				Related Links	Back To Find/List		Ƴ Go				
Save 🗙 Delete 🗋	Copy ବ Reset 🥒 Apply Config 🕂 Add Ne	w									
	Calling Party Transformation CSS	< Nama N									
	Calling Party Transformation CSS	< None > Transformation CSS (Device Mobility Related Information)	ion)								
	Calling Party Transformation CSS Use Device Pool Calling Party Protocol Specific Information – BLF Presence Group*	Standard Presence group	on)								
	Calling Party Transformation CSS Use Device Pool Calling Party Protocol Specific Information – BLF Presence Group* MTP Preferred Originating Codec*	F C Rone > Transformation CSS (Device Mobility Related Informat Standard Presence group 711ulaw	on)								
	Colling Party Transformation CSS Use Device Pool Calling Party Protocol Specific Information — BLF Presence Group * MTP Preferred Originating Codec * Device Security Profile *	I < None > Transformation CSS (Device Mobility Related Informat Standard Presence group 711ulaw 711ula	<								
	Calling Party Transformation CSS Use Device Pool Calling Party Protocol Specific Information – BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Spece	I < None > Transformation CSS (Device Mobility Related Informat Standard Presence group Titulaw Third-party SIP Device Advanced - Standard SIP No No Note None > Note Note None > Note Note None > Note None > Note None > Note Note None	<								
	Colling Party Transformation CSS Use Device Pool Colling Party Protocol Specific Information— BLF Presence Group* MTP Preferred Originating Codec* Device Security Profile* Rerouting Calling Search Space SUBSCRIBE Calling Search Space	< None > Transformation CSS (Device Mobility Related Informat Standard Presence group 711ulaw Third-party SIP Device Advanced - Standard SIP No < None >	<								
	Colling Party Transformation CSS Use Device Pool Calling Party Protocol Specific Information — BLF Presence Group * MTP Preferred Originating Codec * Device Security Profile * Rerouting Calling Search Space SUBSCRIBE Calling Search Space SIP Profile *	I < None > Transformation CSS (Device Mobility Related Informat Standard Presence group 711ulaw Third-party SIP Device Advanced - Standard SIP No < None > < None > < Standard SIP Profile	v on)								

7. Add Numbers

After creating additional device, we can add new Directory Numbers on this device (not more than 8 lines), then register these lines in master device W80DM.

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🔜 Save 🗙 Delete 🗋 Copy 睯 Re	et 🖉 Apply Config 🔓 Add New	
Status Status: Ready		Î
Association Modify Button Items 1 •••••••••••••••••••••••••••••••••••	Phone Type Product Type: Third-party SIP Device (Advanced) Device Frotocol: SIP Real-time Device Status Registration: Partial Registered ID.81.56.33 Active Load TD: None Device Information Is Active Device Information Is Active Device Information Struct Partial Registered Device Information Control Support Suppo	

8. Configure the W80DM

Due to the limitation of CUCM, registration of more than 8 accounts with same IP Address and Source Port on the server is prohibited. We need configure parameters to modify the TCP source port.

sip.tcp_connection_per_line.enable = 1 [MUST]

This parameter will use a random source port for each account and

it follows a "increment in range" rule: Increment in order within the configured range by the below parameters (both of permitted value ranges from 1024 to 65535).

sip.min_tcp_port =

It configures the minimum TCP port.

sip.max_tcp_port =

It configures the maximum TCP port.

sip.tcp_port_random_mode = 1 [MUST]

It configures the listening port mode.

0-random source port (non 506x), fixed ports (506x) carried in the Contact, Via header.

1-random source port (non 506x) and other ports (non 506x) carried in the Contact, Via header.

sip.tls_port_random = 1

Same as *sip.tcp_port_random_mode = 1*, but for TLS transport type.

After applying the parameter, the accounts will register with different source port. (Only for TCP transport type now)

9. Register on web Interface

- 1) Register Name: Input the Additional User ID in Step 5.
- 2) Username: Input the Directory Number in Step 7.
- 3) **Password**: Input the **Digest Credentials in Step 5**.

Yealink WBODM	Register status	Registered	About Language v Logout
	Line Active	ON O	
🖤 Status 🗸 🗸	Label		×
Base Station Y	Display Name		• NOTE
📽 Handset & Account 🔷	Register Name	GordonTest_Attach	Handset register
SIP Server Settings	Username	0910	Click here to get more product documents.
Handset Registration	Deserved		h
Registration Center	Password		
l⊠ Nefwork ∽	NAT	Disabled 👻	
	SIP Server	1. CUCM 👻	
🗠 Statistics 🗸 🗸		Show Advanced Settings	
😍 Features 🗸 🗸		Chief Flatanood Countys	

Then, we can have more than 8 lines in one W80DM.

Yealink W80DM About Language - Logout											
0	Status			#	IPUI	Handset Status	SIP Account	Account Status	Operation	Handset register	
	Base Station			1	0291C6B7EA	Registered	0900	Registered	区 🗢 양 亩	Click here to get mo product documents.	ore
				2	0227CB937D	Registered	0901	Registered	区 🗢 양 亩		
e.	Handset & Account			3	0291AB197E	Registered	0902	Registered	区 🗢 양 亩		
	SIP Server Settings			4	0291C6B7EF	Registered	0903	Registered	⊠ © © 亩		
	Handset Registration			5	0227C7A6FC	Registered	0904	Registered	区 🗢 🌝 亩		
	Registration Center			6	0291A602AC	Registered	0905	Registered	区 🗢 🌝 亩		
_				7	0291B162AB	Registered	0906	Registered	区 🗢 🌝 亩		
8	Network			8	0291C0B9D6	Registered	0907	Registered	区 🗢 🌝 亩		
₩	Statistics			9	0291C3C606	Registered	0908	Registered	区 🗢 🌝 亩		
હ	Features			10		Unregistered	0909	Registered	区 🗢 🌝 亩		
\$	Settings	~	-	Total: 11	< 1 2	> 10 / Page	Goto 1	Page	Refresh		