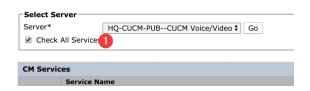## 5. Web Interface Settings on Unified Communications Manager 12.5
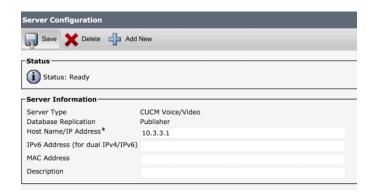
1. To login to CUCM navigate to the IP address you assigned and select "Cisco Unified Communications Manager" from the list, accept any security warnings and enter your username and password and press login

   Note: you will receive a few warnings about licensing, a backup device and emergency notification paging, you will be able to clear the emergency paging notification by pressing the "click here" button and selecting "do not show warning message" the others are permanent unless you create a backup
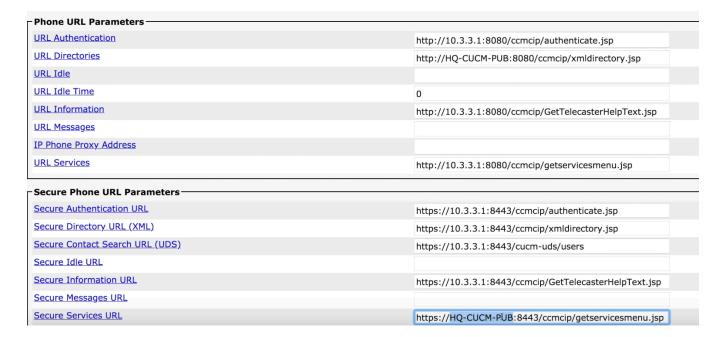
2. In the top right corner select "Cisco Unified Serviceability" and click Go
3. Select Tools -> Service Activation and press the select all services checkbox but deselect the DHCP Monitor Service and then click save

4. Go back to Cisco Unified CM Administration by going to the top right corner and selecting the option and clicking Go
5. Navigate to System -> Server, click find and then select the server, there should only be one. Set the Hostname/IP Address field to the IP of the CM Server and press save
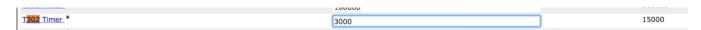

6. Navigate to System -> Enterprise Parameters and set the Auto Registration Protocol to whatever you will use the most, SCCP or SIP and set BLF for Call Lists to Enabled. Scroll down until you see a bunch of URLs and replace the Hostname of the server to the IP and then press Save then Reset.
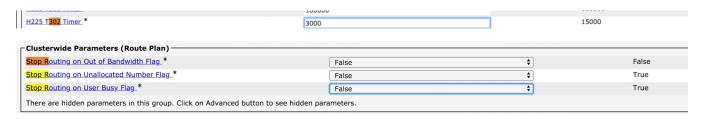
Note: I missed out on URL Directories, just also set that to the IP of the server

7. Navigate to System -> Service Parameters, Select your server and select the service as the Cisco Callmanager (Active) Use find in your browser to search for "302" and set
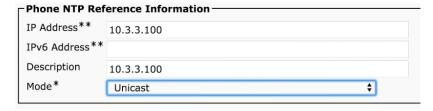

| T302 Timer * | 3000 | 15000 |

them to 3000. Then search for "Stop Routing" and set all of them to false then set the "Default inter region max audio bitrate to 16kbps

| H225 T302 Timer * | 3000 | 15000 |

Clusterwide Parameters (Route Plan)

Stop Routing on Out of Bandwidth Flag *	False	False
Stop Routing on Unallocated Number Flag *	False	True
Stop Routing on User Busy Flag *	False	True

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.
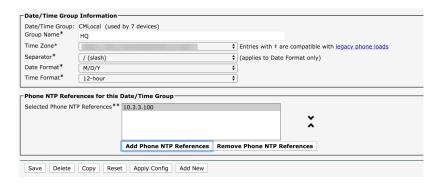
8. Then set the " Matching caller ID with remote destination" to Partial match and the "number of digits for caller ID partial match" to 7 and press save

| Matching Caller ID with Remote Destination * | Partial Match |
| Number of Digits for Caller ID Partial Match * | 7 |

9. Navigate to System -> Phone NTP Reference and click Add New and then enter the NTP server information and press save

Phone NTP Reference Information

IP Address **	10.3.3.100
IPv6 Address **	
Description	10.3.3.100
Mode *	Unicast

10. Navigate to System -> Date/Time Group -> CMLocal and set the Name to HQ, set your timezone, your separator, format and time format. Then add your Phone NTP Reference and press save

Date/Time Group Information

Date/Time Group: CMLocal (used by 7 devices)

Group Name*	HQ
Time Zone*		Entries with ‡ are compatible with legacy phone loads
Separator*	/ (slash)	(applies to Date Format only)
Date Format*	M/D/Y
Time Format*	12-hour

Phone NTP References for this Date/Time Group

Selected Phone NTP References ** 10.3.3.100

Add Phone NTP References   Remove Phone NTP References

Save   Delete   Copy   Reset   Apply Config   Add New

11. Navigate to System -> Region Information -> Region -> Default and rename it to HQ and press save

12. Then navigate to System -> Location Info -> Location -> Hub_None and rename it to HQ

13. Now navigate to Call Routing -> Class of Control -> Partition and press add new, add an INTERNAL partition and press save

14. Now navigate to Call Routing -> Class of Control -> Calling Search Space and add a new CSS called INTERNAL with the INTERNAL partition selected and press save

15. Navigate to Media Resources -> Media Resource Group and add a new group and call it HQ and select all of the Media Resources and press save

Media Resource Group Information

Name* HQ

Description

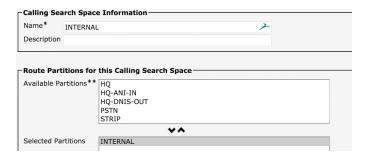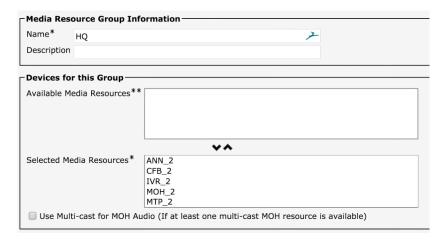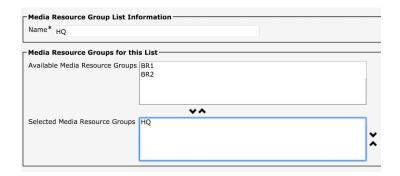**Devices for this Group**

Available Media Resources**

Selected Media Resources*
ANN_2
CFB_2
IVR_2
MOH_2
MTP_2

☐ Use Multi-cast for MOH Audio (If at least one multi-cast MOH resource is available)

16. Navigate to Media Resources -> Media Resource Group List and add a new group called HQ and assign the HQ Media Resource Group

Media Resource Group List Information

Name* HQ

Media Resource Groups for this List

Available Media Resource Groups BR1
BR2

Selected Media Resource Groups HQ

17. Navigate to System -> Device Pool -> Default and rename it to HQ and copy the values below and press save followed by reset

Device Pool Settings

Device Pool Name*	HQ
Cisco Unified Communications Manager Group*	Default
Calling Search Space for Auto-registration	< None >
Adjunct CSS	< None >
Reverted Call Focus Priority	Default
Intercompany Media Services Enrolled Group	< None >

Roaming Sensitive Settings

Date/Time Group*	HQ

18. To create users navigate to User Management -> End user and add a new user and enter your user information, for this document we will be creating the user hqphone1 and press save

a. Scroll all the way down and under permissions information click "add to access control group" and add the following permissions, then press add selected followed by save and repeat for any other users (phones) you'd like to add

19. Navigate to Device -> Phone and press add new, select your phone type, enter your phones mac address and a description and the following values below

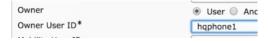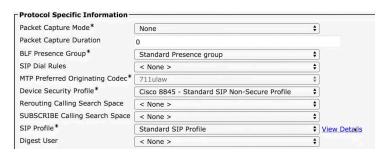|	
MAC Address*	F8A5C5EB846E
Description	HQ Phone 1
Device Pool*	HQ — View Details
Common Device Configuration	< None > — View Details
Phone Button Template*	Standard 8845 SIP
Softkey Template	Standard User
Common Phone Profile*	Standard Common Phone Profile — View Details
Calling Search Space	HQ

a. Then associate the phone with a user

Owner	⦿ User ◯ And
Owner User ID*	hqphone1

b. Set the Device Security Profile to Standard SIP Non-Secure Profile and the Sip Profile to Standard Sip Profile under Protocol Specific Information and then press save

Protocol Specific Information

Packet Capture Mode*	None
Packet Capture Duration	0
BLF Presence Group*	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec*	711ulaw
Device Security Profile*	Cisco 8845 - Standard SIP Non-Secure Profile
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile — View Details
Digest User	< None >

c. Under association on the left side of your screen press Line[1] - Add a new DN and assign a DN with the following values below

Directory Number Information

Directory Number*	2001	☐ Urgent Priority
Route Partition	INTERNAL	
Description	HQ Phone 1	
Alerting Name	HQ Phone 1	
ASCII Alerting Name	HQ Phone 1	
External Call Control Profile	< None >	
☑ Active		

d. Then setup call forwarding by assigning the values as shown below with the Calling Search space as INTERNAL

Call Forward and Call Pickup Settings			
	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			With Configured CSS
Forward All	☐ or		< None >
Secondary Calling Search Space for Forward All			< None >
Forward Busy Internal	☑ or		HQ Set to Internal (Different on my system)
Forward Busy External	☑ or		HQ
Forward No Answer Internal	☑ or		HQ
Forward No Answer External	☑ or		HQ
Forward No Coverage Internal	☐ or		< None >
Forward No Coverage External	☐ or		< None >
Forward on CTI Failure	☐ or		< None >
Forward Unregistered Internal	☑ or		HQ
Forward Unregistered External	☑ or		HQ
No Answer Ring Duration (seconds)	10		
Call Pickup Group	< None >		

e. Now setup caller ID with the values below being the Alerting Name you setup earlier and press save

Line 1 on Device SEPF8A5C5EB846E

Display (Caller ID)	HQ Phone 1
	the person receiving a call may not see the proper identity of the
ASCII Display (Caller ID)	HQ Phone 1
Line Text Label	
External Phone Number Mask	XXXX

f. Now scroll all the way down and press Associate End users and select the User that you have setup for this phone, now press go by related links in the top right and save on the phone, and then press reset. Repeat for all other phones

21. On your phone press the settings cogwheel and navigate to Admin Settings -> Ethernet Setup -> IPv4 Setup and scroll down to Alternate TFTP and enter the IP Address of your CUCM Server (on an 88x series phone)

That's It! You should now have your phones registered and be able to make a call between them!