Vega FXS Gateway & CUCM 7906 SIP-Phone Emulation Configuration

- Ensure a minimum firmware level of R087S011 is running on the Vega
 Factory reset to erase any previous configuration
 Login and use *Quick Config* to assist you with the set-up
 Click on the Basic Config tab and make changes as required

vegastream	Vega Confi	50 Eu igurati	ropa on						
Status Quick Config	FXS	FXO	E	Basic Config	Vol	P	Sut	omit 🔲 Ne	ew Install? Exit
	Country	UK 👻	Timezone	e Offset (HHMM)	0000	Emerge	ncy Numbers	999,112,9	11,000
Log off	LAN								
Reboot System	Interface						Physical		
	🔽 Obtair	n IP Settings au	tomatically	Using DHCP	DHCP			100BASE	-TX 🔻
	IP Addres	SS		172.19.1.8	7		Duplex	Full 👻	
	Subnet M	lask		255.255.25	5.0				
	Gateway			172.19.1.1	D		QoS	_	
	Preferred	DNS Server		0.0.0.0			TOS/Diffserve		0
	Alternate	DNS Server		0000			802.1pQ		
	NTP Time	e Server		uk pool nt			VLAN ID		0
	Codecs Priority	1		2		3	Priority	4	
	Voice	g729	-	g711Ulaw64	k 🔻	g711A	law64k 👻	g7231	-

- 5. Click on the VoIP tab and insert the IP address of CUCM where directed
- 6. Ensure that Registration Mode is enabled for each FXS port

vegastream	Vega 50 Europa Configuration	nanges		
Status Quick Config Expert Config <mark>Warnings(6)</mark> Log off	FXS FXO VoIP Routing Mode Image: Send calls via a VoIP Service Properties of the service of the serv	Basic Config rovider/Proxy vices	VoiP	Submit New Install? Exit
Reboot System	VolP Device Configuration			
	Proxy domain name	CCUM_ip_address		
	Proxy address	CCUM_ip_address		
	Registrar address	CCUM_ip_address		
	Outbound proxy address	0.0.0.0		
	Registration Mode	FXS Port 💌		
	Registration and Authentication ID	Reg and Auth ID		
	Authentication Password	****		

- 7. Click on the FXS tab
- 8. In the Numeric Caller ID column enter the desired extension numbers which will be set up in CUCM also
- 9. Click the copy to number list button
- 10. In the Authentication Password column enter the password for each extension which will be used in CUCM also



Vega 50 Europa Configuration

Unapplied Configuration Changes

Status Quick Config	FXS	FXC) Basic Confi <u>c</u>	j Vol	P Submit	New Install? Ex	it
Expert Config	Teleph	one Con	nections				
Warnings(6) Log off	Interface	Enabled?	Numeric Caller ID	Textual Caller ID	Telephone number(s) to route to the FXS interface	Registration and Authentication ID	Authentication Password
Reboot System			(Numeric_ID -	
	0101		201	FXS1	201	201	201
	0102		202	FXS2	202	202	202
	0103	V	203	FXS3	203	203	203
	0104		204	FXS4	204	204	204
	0105		205	FXS5	205	205	205
	0106		206	FXS6	206	206	206
	0107		207	FXS7	207	207	207
	0108		208	FXS8	208	208	208

- 11. Once completed click the Submit button
- 12. Open a Telnet session
- 13. Copy/paste the supplied Cisco specific code from Notepad into the Vega CLI (it is advisable to perform this in the three individual sections as presented)
- 14. Enter "save"
- 15. Enter "apply"
- 16. Enter "reboot system"



17. Browse to the CUCM GUI

18. In the User Management tab select End User

CISCO Cisco Unified CM Administration For Cisco Unified Communications Solutions			
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 👻 Application 👻	Use	r Management 👻 Bulk Administration	🕶 Help 👻
		Credential Policy Default	
		Credential Policy	
		Application User	
Cisco Unified CM Administration		Role	
System version: 6.0.1.2000-4		User Group	
		User/Phone Add	
		Application User CAPF Profile	
		End User CAPF Profile	
Convright © 1999 - 2006 Cisco Systems, Inc.		SIP Realm	

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- 19. Click the Add button to add a new user
- 20. Enter the extension details where indicated 21. Click Save when completed

cisco _{For}	Cisco (Inified CM A	dministr	ation ions				
System 👻 Call Ro	uting 👻	Media Resources 👻	Voice Mail 👻	Device 👻	Application 👻	User Management 👻	Bulk Administration 👻	Help 👻
End User Config	uratio	n						
Save								
– Status –––––								
i Status: Read	dy							
User ID*	101	201						
Password		201						
Confirm Passwor	d	201						
PIN		201						
Confirm PIN		201						
Last name*		FXS_201]		
Middle name								
First name								
Telephone Numbe	er							
Mail ID								
Manager User ID								
Department								
User Locale		< None >			-			
Associated PC								
Digest Credential	ls							

22. In the Device tab select Phone

CISCO CISCO Unified CM Administra For Cisco Unified Communications Solution	ations	on						
System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻	Dev	vice 👻	Application 👻	User Manager	ment 👻	Bulk Administration	• H	elp 👻
		CTI Ro	ute Point					
		Gatek	eeper					
	Gateway							
		Phone)					
Cisco Unified CM Administra		Trunk			1			
System version: 6.0.1.2000-4	Remote Destination							
		Device	e Settings	•				
					_			

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- 23. Click the Add button to add a new phone
- 24. Select the phone type Cisco 7906
- 25. Click Next

cisco	Cisco U For Cisco (Unified CM A	dministrations Solut	ation ions		
System 👻	Call Routing 👻	Media Resources 👻	Voice Mail 👻	Device 👻	Application 👻	User Management 👻
Add a Nev	w Phone					
Next						
- Status -						
(i) Statu	s: Ready					
- Select t	he type of ph	ione vou would li	ike to create			
Phone Typ	e* Cisco 790	6		-		
- Next						
(i) *- in	dicates require	ed item.				

26. Ensure the protocol is set to SIP 27. Click Next

cisco	Cisco U For Cisco L	nified CM A	dministra ations Soluti	ation ions							
System 👻 🤇	Call Routing 👻	Media Resources 👻	Voice Mail 👻	Device 👻	Application 👻	User Management 👻					
Phone Cont	Phone Configuration										
Next											
— Status —											
(i) Status	: Ready										
- Select the	e type of ph	one you would lik	e to create -								
Product Typ	e:	TypeModel.MOD	EL_CISCO_79	06							
Select the d	levice protoco	TypeDeviceProt	ocol.DEVICE	PROTOCOL	SIP 👻						
Next -											
(i) *- ind	icates require	d item.									

- 28. Enter the MAC of the Vega then substitute the last characters of the MAC for the extension number, whilst ensuring that the string remains twelve characters in length
- 29. Complete the remainder of the form as shown
- 30. When completed click Save



31. Click on Line 1 - Add A New DN

CI	Cisco Unified CM Administr For Cisco Unified Communications Solu	ration tions									
Syster	m ▼ Call Routing ▼ Media Resources ▼ Voice Mail ▼	Device - Application - User M	anagement 👻 Bulk Administration 👻 Help 👻								
Phon	e Configuration										
	Save 🗙 Delete 🗋 Copy 省 Reset 🕂 Add	New									
i	- Status i Add successful										
	· · · ·	84 T									
	Association Information Phone Type Modify Button Items Product Type: TypeModel.MODEL_CISCO_7906 Device Protocol: TypeDeviceProtocol.DEVICE_PROTOCOL_SIP										
1		Device Information									
3	Garage Add a new SD	Registration IP Address	TypeRisStatus.STATUS_RIS_UNKNOWN Unknown								
4	Can Add a new SD	MAC Address*	005058040201								
5	Can Add a new SD	Description	Extension_201								
6	Can Add a new SD	Device Pool*	Default								
	Unassigned Associated Items	Common Device Configuration	< None >								
7	Add a new SD	Phone Button Template*	Standard 7906 SIP								
8	TypeFeature.FEATURE_PRIVACY	Softkey Template	< None >								
9	TypeFeature.FEATURE_NONE	Common Phone Profile*	Standard Common Phone Profile								
		Calling Search Space	< None >								

32. Enter the extension number.33. Click in the Description field – this will auto update with the user name

CISCO For Cisco	Unified CM Administration								
System - Call Routing	✓ Media Resources ✓ Voice Mail ✓ Device ✓ Application ✓								
Directory Number (Configuration								
Save 🗶 Delete	e 🎦 Reset 🕂 Add New								
Status Status: Ready	- Status Status: Ready								
Directory Number	Information								
Directory Number*	201								
Route Partition	< None >								
Description	FXS_201								
Alerting Name									
ASCII Alerting Name									
Active									

34. Click Save

35. Repeat from Step 18 until you have completed the configuration for all extensions 36. In the Vega CLI enter "sip reg all" to force all registrations simultaneously 37. In the CUCM GUI click on Device & select Phone.

- 38. Click the Find button to display all

39. Ensure that each FXS is displayed as Registered

cis	Cisco Unified CM Administration Cisco Un Cisco For Cisco Unified Communications Solutions										
System	System 👻 Call Routing 👻 Media Resources 👻 Voice Mail 👻 Device 💌 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻										
Find a	Find and List Phones Related Links: Actively Log										
	Add New 🔛 Select All 🔛 Clear All 💥 Delete Selected 🍄 Reset Selected										
(i) 4	us I5 re	cords found									
Pho	na	(1 - 45 of 45)									
110		(1 45 01 45)									
Find P	hone	where Device N	ame	▼ begins w	ith 👻	Fi	nd Clear Filte	r 🕆 😑			
					Select item t	or enter search	lext •				
	_	Device Nar	me(Line) [▲]		Description		Device Pool	Device Protocol	Status	IP Address	
	790	SEP00505804	40201	Extension_201			<u>Default</u>	SIP	Registered with 172.19.1.77	172.19.1.87	
	790	SEP00505804	40202	Extension_202			<u>Default</u>	SIP	Registered with 172.19.1.77	<u>172.19.1.87</u>	
	790	SEP00505804	40203	Extension_203			<u>Default</u>	SIP	Registered with 172.19.1.77	172.19.1.87	
	1	SEP00505804	40204	Extension_204			<u>Default</u>	SIP	Registered with 172.19.1.77	172.19.1.87	
Г	1	SEP00505804	40205	Extension_205			Default	SIP	Registered with 172.19.1.77	172.19.1.87	
Г	/90	SEP00505804	40206	Extension_206			Default	SIP	Registered with 172.19.1.77	172.19.1.87	
Г	790	SEP00505804	40207	Extension_207			Default	SIP	Registered with 172.19.1.77	172.19.1.87	
	790	SEP00505804	40208	Extension_208			Default	SIP	Registered with 172.19.1.77	<u>172.19.1.87</u>	
Add	d Nev	v Select All	Clear All	Delete Selected	Reset Selected						