Initial configuration Vega 50 6x4 FXS (SIP) - R7.5



This document describes how to configure the FXS ports on a Vega 50 6x4 gateway, using the web browser interface. The configuration described will allow the Vega to be rapidly installed and tested.

The instructions below will configure the Vega 50 6x4 to operate as follows:

- Calls made by any of the attached analogue phones will be routed to the SIP proxy (or if no SIP proxy to a specific IP address); the Vega will pass on any dialled digits.
- Calls received from the SIP proxy (or if no SIP proxy, from a VoIP device) will be routed to • the appropriate telephone based on the 3-digit extension number presented.
- Phones 401 and 402 will be directly connected to the 2 FXO ports connected to the PSTN if the Vega is powered down, or is undergoing an upgrade.



Although the Vega 50 6x4 supports two LAN interfaces, in this example configuration, only one LAN interface, LAN 1 will be used.

Notes are included describing the changes required if there is no SIP proxy in the installation and calls are to be routed to a specific destination device.

The configuration process is broken down into 12 stages as follows:

- 1 Connect your Vega to LAN, Telephone and Power
- 2 Configure the basic LAN parameters
- 3 Configure password and login timeout
- 4 Check and configure LAN settings and Host name
- 5 Configure the Dial Plan
- 6 Configure SIP parameters
- 7 Configure audio parameters
- 8 Configure Authentication
- 9 Configure Registration
- 10 Configure POTS parameters
- 11 Save Changes
- 12 Archive Vega Configuration

Please also see:

- 13 Technical Support
- 14 Advanced configuration

1. Connect your Vega to LAN, Telephone and Power



Before installing your Vega, ensure that you read the VegaStream VoIP Gateways Safety and Compliance Information document.

LAN:

Using the yellow booted cable(s) connect the LAN port(s) on the Vega to a standard or fast Ethernet hub or switch (10 baseT or 100 baseTx). The connector nearest the ferrite core should be plugged into the Vega.

For this configuration just connect the LAN 1 interface to the hub or switch.

Telephony:

The connector locations at which the FXS telephone ports are available, depends upon where in the Vega the FXS interface cards are plugged. If an FXS card is plugged into interface slot 1, FXS ports will be available on the RJ45 connector at locations IF 1 to IF 4 and on the RJ21 / Amphenol / Telco 50 connector. With an FXS card plugged into interface slot 2, FXS ports will be available on the RJ45 connector at locations IF 5 to IF 8 and on the RJ21 / Amphenol / Telco 50 connector. With FXS card(s) are plugged into interface slots 3 to 6, these FXS ports will be available on the RJ21 / Amphenol / Telco 50 connector only.

Note the port numbers on the RJ45 connector block increase in an anticlockwise direction from the bottom left corner.

IF 8	IF 7	IF 6	IF 5
IF:0108	IF:0107	IF:0106	IF:0105
IF 1	IF 2	IF 3	IF 4
IF:0101	IF:0102	IF:0103	IF:0104

FXO 1	FXO 2
IF: 0201	IF: 0202

Telephone lines can be connected to the two FXO ports.

See the 'Vega 50 6x4 product details' document for pinouts and cabling.



When BRI ports are fitted, two of the four BRI signals are brought out to the associated RJ21 / Amphenol / Telco 50 connector pins. In this situation DO NOT connect anything to these pins on the RJ21 / Amphenol / Telco 50 connector.

Power:

Insert the power cable into the AC power inlet on the Vega and switch on. The power LED on the front panel will illuminate.

LAN LEDs will also illuminate indicating 10 (baseT) or 100 (base TX) connection. The LAN LEDs are duplicated on the front and rear of the Vega. The LEDs blink off to indicate LAN activity.

After a short while the Vega Ready LED will illuminate – the Vega is ready to be configured.

2. Configure the basic LAN parameters

If a DHCP server is available, by default, the Vega will automatically pick up an IP address. If you know the IP address served to the Vega, skip this section and start at section $\underline{3}$.

If DHCP is <u>not</u> to be used to provide the Vega with an IP address, or you need to check the IP address provided to the Vega, connect the serial interface of the Vega to a PC serial interface using the supplied RJ45 to 9 way female D-Type connector cable.

Configure a terminal emulator program (such as Microsoft's HyperTerminal) for:

- Speed = 115200 baud
- Data bits = 8
- Parity = none
- Stop bits = 1
- Flow Control = none

Press <Enter> to get the Username: prompt

At the prompts enter the default user name and password

Username: admin Password: admin

If this is your first login you will be presented with the opportunity to select the firmware to run (SIP or H.323):

CHANGE ACTIVE PARTITION: Partition 1: SIP Firmware (ACTIVE) Version: 11.02.07.5 Image: VEGA-6x4_R075S004 Mar 6 2006 11:24:32 Partition 2: H.323 Firmware Version: 11.01.07.5 Image: VEGA56x4_R075H001a Sep 14 2005 17:33:48 Type PART2 to activate partition 2, or EXIT to leave unchanged.

- Ensure that the partition marked as ACTIVE is the SIP partition, if it is not, then select the other partition as instructed and reboot the Vega¹.
- > If the SIP partition is already marked as ACTIVE, then type EXIT

Once the firmware has been selected and activated, from the command prompt, display the current IP address by typing:

> show lan.if.1.ip

If this is not the IP address required, it can be overridden, together with other LAN parameters by typing:

- > set lan.if.1.use_dhcp=0 > set lan.if.1.ip=aaa.bbb.ccc.ddd > set lan.if.1.subnet=eee.fff.ggg.hhh set lan.gateway.ip=iii.jjj.kkk.lll > set sip.lan_profile=1 ➢ save
- ➢ reboot system

3. Configure password and login timeout

Now configuration will be carried out using a web browser.

 \triangleright Enter the IP address of the Vega into the "Address" field of your web browser.

VolP Gateway Online Configuration - Microsoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	
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Address a 172.19.1.51	💌 🔁 Go

You will then be presented with the login page:

🕙 VoIP Gateway Online C	onfiguration	Microsoft Internet Exp	lorer		
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Address 🕘 http://172.19.1.5	1/index.htm				💌 🄁 Go
	Host Name	this_hostname			
Negastreally	IP Address	172.19.1.51		Vega 56x4	
	IP Address	0.0.0.0		Configuration	
				oomgulation	
	Login				
	Enter I le com				
	Enter Usern	ame and Password	1		
	Username <				
	Password <				
	Login				
Enter the default Use	rname and	Password			

- Username: admin
- Password: admin
- Select Login

If you have not already selected the firmware to run (SIP or H.323) the boot manager will automatically be displayed allowing you to select the code to run, SIP or H.323.

Boot Manager

Please check the current active firmware version below, and select a different partition if required. If a new partition is selected then a reboot system will be needed to activate that version.

Cha	Change Active Partition							
٢	Partition 1	SIP Version: 11.02.07.5 Image: VEGA-6x4_R075S004 Mar 6 2006 11:24:32						
0	Partition 2	H.323 Version: 11.01.07.5 Image: VEGA56x4_R075H001a Sep 14 2005 17:33:48						
C	ontinue							

- > Ensure that the partition selected is the SIP partition, if it is not, then select it
- Press Continue ...

If the partition is changed then the Vega will automatically reboot; in this case you will need to log in again once the reboot is complete².

If the partition is not changed then the management page will be displayed.



> On the left hand side menu select Users

🗿 Vega 56x4 Online Configuration - Microsoft Internet Explorer 🛛 🔲 🗖 🔀						
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorite	es <u>T</u> ools <u>H</u> elp					A
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Address 🕘 http://172.19.1.	.51/vsframe?sid=-79	97029435&frame_id=27				🖌 🄁 Co
	Host Name	this_hostname				
astream	IP Address	172.19.1.51		Vega :	56x4	
Neg	IP Address	0.0.0.0		O - nfie		
	User Name	admin		Config	Juration	
						^
<u>Management</u>	Users					
Logging Maintananco	Administrate	NP				
Maintenance	Logging					
	Logging					
POTS	Billing	0				≣
Dial Plan	Prompt	%u%p >				
DSP	Remote Acces	s 1				
Media	Timeout	240				
Tones	Submit					
<u>SIP</u>						
<u>Users</u>		Administrator F	assword			
<u>QoS</u>		New Password				
Supp.Services		Poliontor Pocowor				
Advanced		Re-efficer masswor				
		(Submit)				
Save						
Log off	Billing User					
	Logging	0				
Help	Billing	1				
	Prompt	%u%p>				~
🙆 Done					🌍 Internet	

Recommended: Change the password

- > enter New Password and Re-enter Password then
- Select Submit and then click "here" to return

Optional: Change the timeout³ – default is 240 seconds;

this can be extend to 7200 seconds (2hrs)

Select Submit and then click "here" to return

³ If the web browser interface is not used for this length of time the Vega will automatically log off the session. This change is only activated by logging out and back into the web browser session.

4. Check and configure LAN settings and Host name

\triangleright	On the	left hand	side menu	select <u>LAN</u>
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🕙 Vega 50 6x4 Online (Configuration - Micro	soft Internet Explo	гег				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorite	es <u>T</u> ools <u>H</u> elp						2
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Address 🕘 http://172.19.1.	.99/vsframe?sid=7862315	18&frame_id=1				× 🖻	Go
	Host Name this_	hostname					
stream	IP Address 172.	19.1.99		Maria El	694		
Vegasu	IP Address 0.0.0	0.0		vega pu	/ 0X4		
	User Name adm	in		Configu	Iration		
Unsaved Configuration Changes							
~	Local Area Netv	vork (changed)					~
<u>Management</u>		ioni (onangoa)					
<u>Logging</u>	Warning: Changing f	hese parameters ma	ay prevent re	emote access.			=
<u>Maintenance</u>							
LAN <	LAN Configurati	on					
POTS	Name this_hos	tname					
<u>Dial Plan</u>	Submit						
<u>DSP</u>							
<u>Media</u>							
<u>Tones</u>	LAN Configurati	on					
<u>SIP</u>	LAN 1	172.19.1.99		LAN 2	0.0.0		
<u>Users</u>	ODHCP	·		• DHCP	, 		
QoS Statistics				0.01101			
Supp.Services	◯ Static			○ Static			
Advanced	IP Address	172.19.1.99		IP Address	0.0.0.0		
	\setminus						
Save	Subnet Mask	255.255.255.0		Subnet Mask	255.255.255.0		
	Configure LAN Inter	aces					
Log off	QoS	TOS/DiffServ	*	QoS	TOS/DiffServ	*	
Help	Accept non 8021q tagged frames	V		Accept non 8021q tagged frames	V		
Reboot System 🗸	Configure QOS Prot	iles					
	Submit						~
e					🥑 Internet		

In this configuration scenario we are just going to use LAN interface 1, so in the next steps we will configure the parameters required for LAN interface 1, configuring both calls and management traffic to be routed via this LAN interface.

Ensure that the IP address and subnet mask are configured correctly. With DHCP enabled the current values collected by DHCP are shown 'greyed out'

- > If static configuration of the IP information is required select 'Static IP Address' and configure the values as required.
- Submit and then click "here" to return; return to LAN Interface 1 If changed select configuration page.

	LAN Configuration							
	LAN 1	172.19.1.99		LAN 2	0.0.0.0			
	◯ Static IP Address	172.19.1.99		O Static IP Address	0.0.0.0			
	Subnet Mask	255.255.255.0		Subnet Mask	255.255.255.0			
\langle	Configure LAN Interf	aces						
	QoS	TOS/DiffServ	•	QoS	TOS/DiffServ 🛛 👻			
	Accept non 8021q tagged frames			Accept non 8021q tagged frames				
	Configure QOS Profi	iles						
	Submit							

In the LAN configuration section

Select Configure LAN Interfaces

LAN Configuration			
LAN 1	172.19.1.99	LAN 2	0.0.0.0
Physical Layer		Physical Layer	
Enable Full Duplex		Enable Full Duplex	
Enable 10baseT		Enable 10baseT	
Enable 100baseTX		Enable 100baseTX	
Submit	\sim		

Recommended: In the Physical Layer section for LAN 1, leave ticked only 100baseTx or 10 baseT (not both) - whichever is appropriate (this ensures that any re-negotiation of the LAN connection bandwidth will always result in the same connection rate)

Optional: In the Physical Layer section for LAN 1, tick 'Full Duplex' to allow the Vega to attempt to negotiate a full duplex LAN connection (this gives increased bandwidth on the LAN link)

Select Submit and then click "here" to return

If you are planning to use LAN interface 2 – check its configuration too.

Now continue configuring the other LAN parameters:

LAN Configuration	
Name this_hostname	
Submit	

If the Vega has a DNS name associated with its IP address, in the LAN Configuration section

- set Name = the DNS name
- Submit and then click "here" to return > select
- Scroll down to the Default LAN Gateway section



Optional: If Static addressing is to be used to define the LAN gateway

- Select Static IP Address
- Set up the LAN Gateway IP address either as a DNS name or as a dotted decimal IP address.
- Select Submit and then click "here" to return
- > Scroll down to the Calls section

Calls		
LAN Profile	1-LAN_1 V	
Submit		

- Ensure that the LAN profile is 1-LAN_1
- > If it needs changing, change it, then select Submit and then click "here" to return
- Scroll to the TFTP Parameters section



Optional: If Static addressing is to be used to define the TFTP Server

- Select Static TFTP Server IP Address
- Set up the TFTP Server IP address either as a DNS name or as a dotted decimal IP address.
- Ensure that the LAN profile is 1-LAN_1
- Select Submit and then click "here" to return

Scroll to the NTP Parameters section

NTP Parameters	0.0.0.0
NTP Server IP Address	
PHCP From DHCP server on LAN interface	1-LAN 1 💌
Static NTP Server IP Address	0.0.0
LAN Profile	1-LAN_1 🗸
Configure NTP	
Submit	

Set up NTP to get time updates for the real time clock – this keeps the clock accurate over long periods of time.

Optional: If Static addressing is to be used to define the NTP Server

- Select Static NTP Server IP Address
- > Set up the NTP Server IP address either as a DNS name or as a dotted decimal IP address.
- Ensure that the LAN profile is 1-LAN_1
- Select Submit and then click "here" to return
- Scroll to the **Ping**, **SNMP**, **Radius etc** section

Ping, SNMP, Rad	dius etc		
LAN Profile	1-LAN_1	Y	
Submit			

- Ensure that the LAN profile is 1-LAN_1
- Submit and then click "here" to return If it needs changing, change it, then select.
- Scroll to the DNS Servers section

DNS	
DNS Server List	172.19.1.1 💌
Use DNS Server defined by DHCP on Lan Interface	1-LAN 1
Submit	

Static DNS Servers	
DNS Server	Domain Name Server
1	0.0.0.0
2	0.0.0.0
3	0.0.0.0

Submit Add Delete

DNS servers will be set up using both DHCP served DNS servers and also static DNS Servers specified here.

- Ensure Use DNS Server defined by DHCP on LAN Interface = 1-LAN 1
- If it needs changing, change it, then select Submit and then click "here" to return

Optional: If static DNS servers are to be defined, in the Static DNS Servers section

- Set up Domain Name Server IP address(es) (Press Add if more than 3 static entries are required)
- Select Submit and then click "here" to return

(Note, the DHCP supplied DNS server will be used in preference to statically defined servers, unless the DHCP defined server is also statically defined, when the static order will be used.)

Scroll to the **Management Access** section

Management Acces	55	
	LAN Profile	LAN Port
Telnet	3-LAN_1&2 💌	23
Web Server	3-LAN_1&2 🗸	80
Submit		
Set Telr	net LAN Profile = '	1-LAN_1
Set We	b Server LAN Pro	file = 1-LAN_1
	Submit	

Select submit and then click "<u>here</u>" to return

5. Configure the Dial Plan

Dial plans for the FXS ports are below; for dial plans to route local and emergency numbers to the FXO ports, see <u>14.3 "Configure Emergency numbers to route to the two FXO ports"</u>, and <u>14.4 "Configure local numbers to route to the two FXO ports"</u>.

Configure the dial plans for FXS

On the left hand side menu select Dial Plan



In the Profiles section, Profile ID 1

➢ Select Modify

Dial Planner > Profile 1

Modify Profile		
Profile ID	1	
Enabled		
Name	default	
Submit		

Plans in this Profile										
Del?	Plan ID	Name	Srce	Dest	Cost	Group	Chg?			
	1	outgoing_lan	IF:0[1-4],TEL:<.*>	IF:9901,TEL:<1>	0	1	<u>Modify</u>			
	2	incoming_lan	IF:9901,TEL:<><.*>	IF:<1>,TEL:<2>	0	1	<u>Modify</u>			
Delete Add										

- Set Name = FXS_to_Proxy
- select Submit and then click "<u>here</u>" to return

Dial Planner

Profiles								
Del?	Profile ID	Enabled	Name	Plans	Chg?			
	1	1	FXS_to_Proxy	===> (Modify			

Delete Add

In the Profiles section, Profile ID 1:

➢ Select Modify

Dial Planner > Profile 1

Modify Profile		
Profile ID	1	
Enabled		
Name	FXS_to_Proxy	
Submit		

	Plans in this Profile									
	Del?	Plan ID	Name	Srce	Dest	Cost	Group	Chg?		
		1	outgoing_lan	IF:0[1-4],TEL:<.*>	IF:9901,TEL:<1>	0	1	<u>Modify</u>		
		2	incoming_lan	IF:9901,TEL:<><.*>	IF:<1>,TEL:<2>	0	1	<u>Modify</u>		
\langle	Dele	ete 🛛 A	Add							

In the **Plans in this Profile** section:

- ➢ Tick the Del? Tick box against Plan ID 2
- > Select Delete



Dial Planner > Profile 1

Modify Profile	
Profile ID	1
Enabled	
Name	FXS_to_Proxy
Submit	
Plans in this Profile	

Plans In this Profile Del? Plan ID Name Srce Dest Cost Group Chg? I outgoing_lan IF:0[1-4]...,TEL:<.*> IF:9901,TEL:<1> 0 1 Modify Delete Add

In the Plans in this Profile section, Plan ID 1:

> Select Modify



- Set Name = FXS_to_Proxy
- Set Source = IF:01..,TEL:<.*>
- Set Destination = IF:9901, TEL:<1>
- ➢ Set Group = 0 − no group
- select Apply and then click "here" to return

(This takes a call from any of the FXS

the destination telephone number)

dialled in store <1>)

interfaces and stores the telephone number

(This routes the call to IF:9901 (the LAN) and passes the received telephone number on as



>On the left hand side menu select Dial Plan



Now create a new profile and in it create a dial plan entry to handle calls being received inbound from the LAN:

In the Profiles section

> select Add

In a similar manner to configuring profile 1, configure profile 2

In the Modify Profile section

- set Name = Proxy_to_FXS
- > select Submit and then click "here" to return

Modify the first plan for Profile 2:

- set Name = For_4xx
- set Source = IF:99..,TEL:4<..>

(This dial plan handles calls from IF:99xx (LAN), made to telephone numbers 4xx; store

the 2 digits received after the leading digit 4 in store <1>) > set Destination = IF:01<1>(As the last 2 digits of the extension numbers start at 01 and increase sequentially, and this matches the last 2 digits of the FXS port interface numbers, the digits stored in store <1> can be used as the offset into the FXS ports)

> select Apply and then click "here" to return

Note: The SIP Proxy registration will assign the correct numbers to present for each interface; when the Proxy presents a call to the Vega, the INVITE message starts something like:

INVITE sip:403@172.19.1.51 SIP/2.0

The digits preceding the @ (the telephone number field) must contain 4xx, the 3 digit extension number to ring.

For more details on the operation of the dial planner, including the various tokens that may be used, see the section "The Dial Planner" in the Vega Primer.

Standalone / non-proxy installations: Where a proxy is not used add a TA: token to dial plans that send calls to VoIP (i.e. to IF:9901), e.g. if the destination device is at IP address 192.168.1.54 then the dial plans above become:

Profile 1 plan 1 (change to 'Destination'):

- Set Name = FXS to Proxy
- Set Source = IF:01..., TEL:<...*>
- Set Destination = IF: 9901, TEL: <1>,TA:192.168.1.54
- Set Group = 0 no group

Profile 2 plan 1 (no differences from above):

- > set Name = For 4xx
- set Source = IF:99..,TEL:4<..>
- ➢ set Destination = IF:01<1>

6. Configure SIP parameters

Note: everything in this section, except the configuration of 'accept non proxy invites' should be skipped for <u>Standalone / non-proxy installations</u>



On the left hand side menu select <u>SIP</u>

In the **General** section:

set Local Domain =

Public_name_of_proxy_used_by_other_d evices_to_send_their_INVITEs_to

(this value is the "outside world's" name or IP address for the proxy)

check that LAN Profile = 1

Optional: To allow devices other than the proxy to make calls directly through the Vega

tick Accept Non-Proxy Invites

If only the proxy is allowed to route SIP calls through the Vega ensure that this tick box is clear.

- select Submit and then click "here" to return
- Scroll down to the **Proxy Configuration** section

Proxy Config	juration					
Mode			⊙ normal ○ dnssrv	C) cyclic	
Minimum Valid	Response		180			
Timeout (ms)			5000			
SIP Proxy	Enable	IF	/DNS Name		Port	Chg?
1	0		0.0.0.0		5060	Modify
Add Delete	1					\smile

Submit

In the Proxy Configuration section, for SIP Proxy 1:

Select Modify

SIP > SIP Proxy 1

SIP Proxy 1	
Enable	
IP/DNS Name	0.0.0
Port	5060
Submit	

In the **SIP Proxy 1** section:

- Ensure that Enable is ticked
- > set IP/DNS Name = IP_address_of_SIP_proxy, or DNS_hostname_of_the_SIP_Proxy
- > select Submit and then click "here" to return

7. Configure audio parameters

The availability and priority of codecs offered and accepted by the Vega 50 6x4 is defined by Media Capability Sets.

🕙 this_hostname Vega	50 6x4 Online C	onfiguration - Micros	oft Internet Explore	эr		×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorite	es <u>T</u> ools <u>H</u> elp				4	7
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Address 🙆 http://172.19.1.	.67/vsframe?sid=-19	00465168&frame_id=100			💌 🄁 G	io
	Host Name	this_hostname				
astream	IP Address	0.0.0.0	1	lena!	50.6v4	
Vegas	IP Address	172.19.1.67	.67 Vega 50 0.4			
	User Name	admin	C	Config	guration	
Management 🔒	Media					Ĥ
Logging						
Maintenance	Media Contr	ol Profiles Configu	Iration			
LAN	Media Control F	Profiles				
POTS						≡
Dial Plan	Media Capal	oility Sets				
DSP	Capability Set	t Name	Capability Indices	Chg?		
Modia d	1	voice	6,2,3	Modify		
Tanaa	2	voice+t38Udp	6,2,3,5,8,9	Modify		
cin	3	g711faxmodem	8,9	Modify		
<u>31</u>	Add Delete	1				
<u>Users</u>						
<u>QoS Statistics</u>	Media Capał	pility				
Supp.Services	Capability	Codec	Codec Profile	Chg?		
Advanced	1	g7231	1	<u>Modify</u>		
	2	g711Alaw64k	1	<u>Modify</u>		
	3	g711Ulaw64k	1	<u>Modify</u>		
Sava	4	t38tcp	1	<u>Modify</u>		
Jave	5	t38udp	1	<u>Modify</u>		
Log off	6	g/29	1	Modify Modify		
	/	g/29AnnexA	1	<u>iviodity</u> Madify		
	0	g/TTAIaw64k	2	Modify		
<	Add Delete	y/TTOTawo4K	2	wouny		~
é) Internet	:

> On the left hand side menu select Media

The different codecs and their indices are specified in the Media Capability section.

Check that either capability set 1 or capability set 2 has the desired codecs defined and that they are defined in the preferred order of use. (The Vega will use the first codec in the list that it can negotiate.)

If not, in the Media Capability Sets section, in Capability Set 2:

> Select Modify

Modify Capability Set 2					
Capability Set 2					
Name	voice+t38Udp				
Capability Indices	6,2,3,5,8,9				
Submit					

In the Capability Set 2 section, in Capability Indices

- > List the codec indices in the required order (comma separated)
- select Submit and then click "here" to return
- > On the left hand side menu select <u>SIP</u> and scroll down to the **Media** section

🕙 this_hostname Vega	50 6x4 Online Configuration - Microso	ft Internet Explorer		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorit	es <u>T</u> ools <u>H</u> elp		1	
🔇 Back 🝷 🏐 🝸 👔	👔 🏠 🔎 Search 👷 Favorites 🔗 🔗	• ዿ 🖸 - 🖵 👙 🚳		
Address 🙆 http://172.19.1	.67/vsframe?sid=-1900465168&frame_id=52		💌 🔁 Go	
	Host Name this_hostname			
astream	IP Address 0.0.0.0	Vega 50	6x4	
Near	IP Address 172.19.1.67	Configure		
	User Name admin	Configui	ation	
~			~	
<u>Management</u>	Media			
<u>Logging</u>	Capability Set (2)			
<u>Maintenance</u>	Submit			
LAN				
<u>POTS</u>	Registration			
<u>Dial Plan</u>	Show SIP Registration	Show Registration		
<u>DSP</u>	Enable Registration		-	
<u>Media</u>	Register Message Request URI Port	5060		
Tones	Expiry Time (seconds)	008	=	
<u>SIP</u>	Mode		-	
OoS Statistics	Maximum Number of Deviatory			
Sunn Sarvicas	Maximum Number of Registrars	3	_	
Advanced	Minimum Valid Response	200		
Muvanceu	Timeout (ms)	5000		
	SIP Registrar Enable IP/DNS	S Name Port Chg?		
	1 0 0.0.	0.0 5060 <u>Modify</u>		
Save	Add Delete			
Log off				
	Submit			
reip 🗸				
<	SIP Registration Users Configu	ration	~	
Ê		🎱 Interi	net 🤢	

- Set Capability Set = 2 (if capability set 2 contains the preferred list, or 1 if capability set 1 contains the preferred list)
- select Submit and then click "here" to return

8. Configure Authentication

Note: everything in this section should be skipped for Standalone / non-proxy installations

In some systems – to ensure that only authorised devices are allowed to set up and clear calls – SIP authentication is used. If authentication is used, it is typically required on the SIP REGISTRATION, INVITE, ACK and BYE messages.

For authentication, a user-name, and a password can be configured. In the Vega, the user-name is constructed from three parts

Username Prefix, Username and Username Suffix

each of which may be configured with alphanumeric values.

The values for user-name and password entered here must match the values that have been configured as the authorisation user and password in the proxy.

For example, to set up authentication using username 'User_xxx' and password 'Pass_xxx' (where xxx is the extension number):

- On the left hand side menu select <u>SIP</u>
- > Scroll down to the bottom to the SIP Authentication Configuration section



Select <u>SIP Authentication</u>



By default, Authentication entries are set up but disabled for each analogue interface. User 1 is designed to be used for the first analogue port, use 2 for the second, etc.

Against the desired User

Select Modify e.g. for User 1

<u>SIP</u> > <u>Authentication</u> > User

SIP Tokens						
Token	Value					
1	unit1					
2	01					

Modify SIP Authentication User

SIP Authentication User 1					
Enable	Q				
Username Prefix	none 💌				
Username Suffix	none				
Username	01				
Password	user01				
Source	IF:0101				

Submit

- ➢ Tick Enable
- Check Username Prefix = none
- Check Username Suffix = none
- Set Username = User_401
- Set Password = Pass_401
- Check Source = IF:0101
- select Submit and then click "here" to return

Repeat the configuration for all required Authentication users. e.g.

User	Enable	Prefix	Suffix	Username	Password	Source
user 2	\checkmark	none	none	User_402	Pass_401	IF:0102
user 3	\checkmark	none	none	User_403	Pass_403	IF:0103
etc						

For the FXO ports, ensure that the port numbering starts at IF:0201.

9. Configure Registration

Note: everything in this section should be skipped for Standalone / non-proxy installations

FXS gateways are normally configured to register each FXS port individually. Each FXS port is therefore effectively handled as a separate endpoint. Registration provides the SIP proxy with two main pieces of information:

- "address" the public address of the Vega port (the URL which other SIP endpoints will use to make calls to this port)
- "contact" the URL which the proxy will use to forward the call to the relevant port (interface) on the Vega

When a SIP call request is sent to the SIP proxy, the SIP proxy receives the call addressed to the public address, it then performs a translation from the public address to the contact address, and uses the contact details to present the call to the Vega.

The Registration format is:

```
--- address:
     Public_Address@Registration_Domain
--- contact:
     <sip:Dn@Host Name or IP address of Vega>
```

In the Vega, Public Address is made up of the registration user Username prefix, Username, and Username suffix

Other values needed for registration include:

- Local Domain (Registration Domain) ... already configured in section 6 'Configure SIP parameters'
- Dn
- Host Name or IP address of Vega 'Check and configure LAN settings and Host name'

... configured in registration section ... set up by DHCP or in section 4

- Registration message format:
 - - --- address:
 - Username prefixUsernameUsername suffix@Registration Domain --- contact:
 - <sip:Dn@Host_Name_or_IP_address_of_Vega>
- e.g. to set up registration so that the Vega registers:

```
FXS Port 1
--- address:
     1344784401@Registration Domain
--- contact:
     <sip:401@Host Name or IP address of Vega>
```

etc.

- On the left hand side menu select SIP
- Scroll down to the **Registration** section



For SIP Registrar 1:

Select Modify

SIP > SIP Registrar 1

SIP Registrar	1
Enable	
IP/DNS Name	0.0.0.0
Port	5060
Submit	

- > Ensure that Enable is ticked
- Set IP/DNS Name =

IP_or_DNS_name_of_SIP_registrar_or_machine
proxying_for_the_registrar

> select Submit and then click "here" to return

In the SIP Registration Users Configuration section

Select <u>SIP Registration Users</u>

<u>SIP</u> > Registration

SIP Registration Users

Del?	User	Enable	Dn	Username Prefix	Username Suffix	Username	Built Username	Authentication User Index	Chg?
	1	0	01	no prefix	unit1	01	01unit1	1 - User_401	<u>Modify</u>
	2	0	02	no prefix	unit1	02	02unit1	2 - User_402	Modify
	3	0	03	no prefix	unit1	03	03unit1	3 - User_03	<u>Modify</u>
	4	0	04	no prefix	unit1	04	04unit1	4 - User_04	<u>Modify</u>
	5	0	05	no prefix	unit1	05	05unit1	5 - User_05	<u>Modify</u>
	6	0	06	no prefix	unit1	06	06unit1	6 - User_06	<u>Modify</u>
	7	0	07	no prefix	unit1	07	07unit1	7 - User_07	<u>Modify</u>
	8	0	08	no prefix	unit1	08	08unit1	8 - User_08	<u>Modify</u>
	9	0	09	no prefix	unit1	09	09unit1	9 - User_09	<u>Modify</u>
	10	0	10	no prefix	unit1	10	10unit1	10 - User_10	<u>Modify</u>
Add	De	elete							

By default, Registration entries are set up but disabled for each analogue interface. User 1 is designed to be used for the first analogue port, use 2 for the second, etc.

In the SIP Registration Users section, for the first user

- > Select Modify
- > Scroll down to the Modify SIP Registration User section

Modify SIP Registration User

SID Dedictration Licer 1					
SIF Registration Oser					
Enable					
Dn	01				
Username Prefix	none				
Username Suffix	none				
Username					
Authentication User Index	1-01 🗸				
Submit					

In the SIP Registration User 1 section

- ➢ Tick Enable
- ➢ Set Dn = 401
- Check Username Prefix = none
- > Set Username Suffix = none
- Set Username = 1344784401
- Check Authentication User Index = 1-User 401
- Submit Select and then click "here" to return

Repeat the configuration for all required Registration users. e.g.

User	Dn	Enable	Prefix	Suffix	Username	Authentication User Index
user 2	402	\checkmark	none	none	1344784402	2 - User_402
user 3	403	\checkmark	none	none	1344784403	3 – User_403
etc						

Recommended: Configure the Vega to reject calls with cause code 38 if registration fails (this allows calls to be re-presented in the dial plan immediately, rather than having to wait for the SIP timeouts to find that the SIP proxy is not available to handle the INVITE)

On the left hand side menu select Advanced, and scroll to the CLI Command section:

CLI Command	
	Submit

Enter

set _advanced.sip.invite.registered=1

Submit and then close the CLI command window Select

10. Configure POTS parameters

FXS ports can be configured with telephone numbers so that they present the correct caller ID when calls are made from them.

Two FXO ports are available for powerfail fallback; the first two FXS ports are connected to these two FXO ports when the Vega is not powered or when the Vega is performing an upgrade.

No configuration is required to use these ports as fallback ports. If routing of calls to these ports is required, then see the FXO version of the Vega 50 6x4 initial configuration guide.

Configuring caller ID on FXS ports

Firstly disable the prefix and suffix entries (that would apply to every port) – these can be used to apply a common prefix and/or suffix to all caller IDs, but it is typically easier to configure the whole caller ID on a per port basis:

On the left hand side menu select <u>POTS</u>

POTS Configuration

Port Configuration									
Port ID	Enabled	FXS	Caller ID	Layer 1	Tx Gain	Hardware profile	Interfaces	Chg?	
1	1	1	off	g711Alaw64k	0	1	===>	<u>Modify</u>	
2	1	1	off	g711Alaw64k	0	1	===>	<u>Modify</u>	
3	1	1	off	g711Alaw64k	0	1	===>	<u>Modify</u>	
4	1	1	off	g711Alaw64k	0	1	===>	<u>Modify</u>	
5	1	0	off	g711Alaw64k	0	1	===>	<u>Modify</u>	
6	1	0	off	g711Alaw64k	0	1	===>	<u>Modify</u>	

POTS Interface Profiles

POTS Interface Profiles

Advanced POTS Configuration Advanced POTS

In the POTS Interface Profiles section

Select <u>POTS Interface Profiles</u>

POTS Interface Profiles Configuration

POTS Interface Profiles								
Profile ID	Caller ID type	Caller ID wait	DTMF dial digit	DTMF dial timeout	Line busy cause	Chg?		
1	off	6000	#	5	17 (<u>Modify</u>		
2	off	6000	#	5	34	Modify		
Delete	Add							

In the POTS Interface Profiles Configuration section, Profile ID 1,

> Select Modify

POTS > Profile 1

Modify Profile	
Profile ID	1
Line busy cause	17
Caller ID wait	6000
Caller ID type	off 👻
DTMF Termination Char	#
DTMF Dial Timeout	5
Username prefix	NULL
Username suffix	NULL
Submit	

- Check that Username prefix=NULL
- Check that Username Suffix=NULL
- select Submit and then click "here" to return

Now for each FXS POTS port set up the full caller ID:

> On the left hand side menu select POTS

POTS Configuration

Port Configuration									
Port ID	Enabled	FXS	Caller ID	Layer 1	Tx Gain	Hardware profile	Interfaces	Chg?	
1	1	1	off	g711Alaw64k	0	1	===> /	Modify	
2	1	1	off	g711Alaw64k	0	1	===>	<u>Modify</u>	
3	1	1	off	g711Alaw64k	0	1	===>	Modify	
4	1	1	off	g711Alaw64k	0	1	===>	Modify/	
5	1	0	off	g711Alaw64k	0	1	===>	Modify	
6	1	0	off	g711Alaw64k	0	1	===>	<u>Modify</u>	

In the POTS Configuration section, for Port ID 1

Select Modify

POTS > Port 1

Modify Port	
Port ID	1
Enable	
Layer 1	g711Alaw64k ⊻
Caller ID	off 💌
FXS	1
Tx Gain	0 🛩
Hardware profile	1
Submit	

Interface Configuration								
Port Index	Interface Profile	Interface ID	DN	Ring Index	Username	Usernumber	Chg?	
1	1	0101	0101	2	port1	01 (Modify	

In the Interface Configuration section

Select Modify

POTS > Port 1 > Interface 1

Modify Interface	
Port Index	1
Interface Profile	1
Interface ID	0101
Ring index	2
dn 🤇	0101
Username 🤇	port1
Usernumber	01
Submit	

POTS Interface Profiles

Profile ID	Caller ID type	Caller ID wait	DTMF dial digit	DTMF dial timeout	Line busy cause
1	off	6000	#	5	17
2	off	6000	#	5	34

In the Modify Interface section

- > Set the numeric part of Caller ID in dn
- Set the textual part of Caller ID in Username

If a space is required in the username, enclose the whole username in quotes, e.g. "Steve Hight"

> select Submit and then click "here" to return

Repeat for all other FXS ports.

If FXO ports are being used, see the POTS configuration section of the 'Vega 50 6x4 FXO' initial configuration guide for details of the configuration necessary for these ports.

11. Save Changes

The changes to the configuration must be saved and activated. This is carried out as follows:

≻On the left hand side menu select Save

Microsoft Internet Explorer Save Configuration Changes? OK Cancel
Select OK and after the configuration has been saved click "here" to return
> On the left hand side menu select Reboot System
Reboot
○ Force calls to clear
⊙ Wait for system idle 🗹 Block new calls
Reboot Cancel
> select Reboot

The Vega will reboot and once back on-line, it will be ready to take its first call.

12. Archive Vega Configuration

Once configured it is recommended that the configuration is archived to an external server.

To do this check that the tftp address is configured to point to a tftp server (in the <u>LAN</u> page), then on the left hand side menu select <u>Advanced</u>, and scroll to the **CLI Command** section:

CLI Command	
	Submit

> in the text entry box type "PUT tftp:initial_cfg.txt". Select Submit

This will send all the configuration parameters to the tftp server and save them as the file "initial_cfg.txt". (Note: you may want to choose a unique name rather than "initial_cfg.txt", especially if you are configuring more than 1 unit).

The Vega configuration can be archived to an ftp server instead of a tftp server by configuring the ftp server address in the <u>LAN</u> page and then typing the CLI command "PUT FTP:initial_cfg.txt". (Again a unique name can be used in place of "initial_cfg.txt")

If the ftp server requires a login username and password:

- > On the left hand side menu select LAN
- Scroll down to the FTP Parameters section

FTP Parameters	172.19.1.128
FTP Server IP Address	
 DHCP From DHCP server on LAN interface 	1-LAN 1 💌
OStatic FTP Server IP Address	172.19.1.128
LAN Profile	3-LAN_1&2 🔽
Configure FTP	
Submit	

- > Set up the static IP address of the FTP server (if not already supplied through DHCP)
- select Submit and then click "here" to return
- select <u>Configure FTP</u>

FTP Parameters	
Login	
⊙ Anonymous Login	
OUsername Login FTP Username	whatever
FTP Ping Test	✓
FTP Timeout	20
FTP port	21
Abort Socket Before Closing	
Submit	

- Select Username Login
- Set FTP Username = <ftp username>
- select Submit and then click "<u>here</u>" to return

Through the Advanced page CLI Command section, configure the password by typing

Set FTP._password=<ftp password>

13. Technical Support

Support information can be found on the VegaStream Support web site www.VegaAssist.com

If you require help from VegaStream support personnel, please use the serial interface or telnet into the unit, log in and then type:

- > show support
- ➢ sip monitor on
- log display on

Carry out the interaction you want explained, then copy the information provided by the Vega and e-mail it to <u>support@VegaStream.com</u> together with your question.

Notes:

1. If the screens do not appear as indicated, check that Java is enabled on your web browser (Tools>internet options>Security, select internet and custom level and configure Microsoft VM Java permissions and Scripting parameters as indicated below.



- 2. Where there are multiple sections each with a Submit button entries must be made to one section at a time, and those entries confirmed by the Submit button before the next section is altered. Each Submit button only confirms entries for its own section. Any changes in other sections will be discarded when the Submit is pressed.
- Loss of audio mid call consider reducing the selection of available codecs (see section 6). Some equipment, when presented with multiple codecs, may try and switch codec mid-call. Vegas do not support changing codec type mid-call.
- 4. Mismatched audio codecs. Use SIP monitor on to identify this. If the codecs of the endpoints are mismatched this will be reported as error 606 "No matching media". To rectify, enable the appropriate audio codec (see section 6).
- 5. Outbound calls from the Vega send the INVITE to "Default Proxy Host Name/IP" with the request line: "INVITE sip: <dest TEL:>@Default Proxy Host Name/IP".

14. Advanced configuration

Vega 50 6x4 units have further configurable parameters that may be desirable to configure in order to fully integrate into the attached infrastructure.

14.1 Hook-flash, call hold and transfer

See IN_27 FXS Call Transfer for details on configuration and operation.

14.2 Country specific ring tones

See IN_16 Progress Tones and IN_29 Country Tones for details on configuration.

14.3 Configure Emergency numbers to route to the two FXO ports

In many cases it is preferable to route emergency calls to the local FXO ports rather than via the SIP Proxy. The configuration below will:

• Route 999 and 112 to FXO port 0202 – the dial plan will be tagged as 'priority' so as to clear any existing call to a local number already in progress on 0202.

Set up dial plan planner group 2 to be the 'priority call' group Set up dial plans for 999 and 112

> On the left hand side menu select Dial Plan



In the **Planner Groups** section

Select Add

Planner Groups								
Del?	ID	Name	Cause	Lan	Active times	Priority	Chg?	
	1	default	0	off	0000-2359	0	<u>Modify</u>	
	2	default	0	off	0000-2359	0	Modify	
Delete Add								

In the Planner Groups section, Planner Group ID 2

➢ Select Modify

Dial Planner > Planner Group 2

Modify Group	
Group ID	2
Name	default
Cause	0
Lan	off 💌
Active Times	0000-2359
Priority	
Submit	\smile

In the Modify Group section

- Set Name = Emergency_Priority
 Tick the Priority tick box
- select Submit and then click "here" to return

🕙 Vega 50 6x4 Online (Configura	tion - Microso	oft Interne	et Explo	гег				(×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorite	es <u>T</u> ools	Help									7
🌀 Back 🝷 🌍 🕤 🖹	a 🏠 🔎	🤇 Search 🛛 👷 F	avorites 🧧	9 🔕 -	\$	S - 🗆 (e 🍪				
Address 🕘 http://172.19.1.	.99/vsframe	?sid=597599096	&frame_id=:	35					1	Go	
	Host Na	ame this_h	ostname								
stream	IP Addr	ess 172.19	9.1.99				logo	50 6	5.7		
Vegas	IP Addr	ess 0.0.0.0)			1	vega	50.6)X4		
	User N	ame admin					Confi	igura	ation		
	🔔 U	nsaved & Una	pplied Cha	nges				<u> </u>			
^	Dial Di	anner									^
<u>Management</u>	Dial Fi	annei									
Logging	Profile	S									
Maintenance	Del?	- Profile ID	Enabled	1	Na	me	Plans	Cha?			
LAN		1	1	F	XS to	Proxy	===>	Modify			
POTS		2	1	F	Proxv	to EXS	===>	Modify			
<u>Dial Plan</u> 🔹	Delete	Add			10,12	.0_17.0	ŕ	modify			
<u>DSP</u>	Delete	Tidd									≣
<u>Media</u>	Post P	rofile									
<u>Tones</u>	Enabled										
<u>SIP</u>	Cubmit										
<u>Users</u>	Subini										
QoS Statistics	Plane i	in Dact Draf	مات								
Supp.Services		an ID Enable	Name		Srca	Г	laet	Cha2			
Advanced			Internatio	nal TEL	-00< 1		oternationa	L Modify			
	Delete	Add	Internation			< TH L.II	itemationa	i <u>iviouity</u>			
Save	Delete	Had									
Log off	Planne	er Groups									
	Del? ID) Nam	ne	Cause	Lan	Active time	s Priority	Chg?			
Heip	1	defa	ult	0	off	0000-2359	9 0	<u>Modify</u>			
Reboot System 🧹	2	Emergency	_Priority	0	off	0000-2359	9 1	<u>Modify</u>			
<	Delete	Add									~
8								ı 🔮	nternet		:

In the Profiles section

> Select Add

Dial Planner

Profiles								
Del?	Profile ID	Enabled	Name	Plans	Chg?			
	1	1	FXS_to_Proxy	===>	<u>Modify</u>			
	2	1	Proxy_to_FXS	===>	Modify			
	3	1	new_profile	===> (Modify			
Delete Add								

In the Profiles section, Profile ID 3

Select Modify

Dial Planner > Profile 3

	Mod	ify Profi	le					
	Profile	e ID		3				
	Enabl	led						
	Name)		new_profile				
\langle	Sub	mit						
	Plan	s in this	Profile					
	Del?	Plan ID	Name	Srce	Dest	Cost	Group	Chg?
		1	new_plan	TEL:<><.*>	IF:<1>,TEL:<2>	0	0	<u>Modify</u>
	Dele	te Add						

In the Modify Profile section

- Set Name = FXS_Emergency_Calls
- Select Submit and then click "here" to return
- Return to this page

In the Modify Profile section

➢ Select Modify

Dial Planner > Profile 3 > Plan 1

Modify Plan	
Plan ID	1
Profile ID	3
Name	new_plan
Source	"TEL:<><.*>"
Destination	"IF:<1>,TEL:<2>"
Cost Index	0
Group	0 - no group 💌
Apply	0 - no group 1 - default
	12-Emergency_Prioniv

In the Modify Plan section

- Set Name = 999_call
- Set Source = IF:01..,TEL:<999>
- Set Destination = IF:0202,TEL:<1>
- Set Cost Index = 1
- Set group = 2 Emergency_Priority
- > select Apply and then click "here" to return

Add a new plan to this profile (profile 3), the configure as follows:

In the Modify Plan section

- ➢ Set Name = 112 call
- ➢ Set Source = IF:01...TEL:<112>
- Set Destination = IF:0202,TEL:<1>
- Set Cost Index = 1
- \blacktriangleright Set group = 2 Emergency_Priority
- > select Apply and then click "here" to return

The result should be as follows:

Dial Planner	>	Profile 3
--------------	---	-----------

Modify Profile	
Profile ID	3
Enabled	
Name	FXS_Emergency_Calls
Submit	

Plan	Plans in this Profile									
Del?	Plan ID	Name	Srce	Dest	Cost	Group	Chg?			
	1	999_call	IF:01,TEL:<999>	IF:0202,TEL:<1>	1	2	<u>Modify</u>			
	2	112_call	IF:01,TEL:<112>	IF:0202,TEL:<1>	1	2	<u>Modify</u>			
Dele	te Ado	t								

Remember to Save and Apply the changes to activate.

14.4 Configure local numbers to route to the two FXO ports

In many cases it is preferable to route local calls to the FXO ports rather than via the SIP Proxy. The configuration below will:

• Route calls prefixed by 1344 to FXO port 0201, or if that is busy to 0202

Set up Call Presentation Group to send calls to interfaces 0201 and 0202 Set up dial plan to route calls where the telephone number prefix is '1344' to the Call Presentation Group virtual interface.

- > On the left hand side menu select Dial Plan
- > Scroll down to the Call Presentation Groups Configuration section



In the Call Presentation Groups Configuration section

Select <u>Call Presentation Groups</u>

Call	Call Presentation Groups										
Del?	Call Presentation Group	Name	Enable	Interface	Sequence Mode	Destination Timeout	Destination Timeout Action	Max Destination Attempts	Cause	Chg?	
	1	default	0	1001	round_robin	180	Try Next Destination	8	17 (Modify	
Add	Delete										

Call Presentation Groups

Del?	Call Presentation Group	Destinations	Chg?
	1	IF:0101 IF:0102 IF:0103 IF:0104 IF:0105 IF:0106 IF:0107 IF:0108	<u>Modify</u>
Add	Delete		

In the Call Presentation Groups section

Select Modify

Call Presentation Group Configuration

Call Presentation Grou	ıp 1
Name	default
Enable	
Interface	1001
Sequence Mode	round_robin 💌
Destination Timeout	180
Destination Timeout Action	Try Next Destination 💌
Max Destination Attempts	8
Cause	17
Submit	

Call Presentation Group 1

Destinations ||F:0101||F:0102||F:0103||F:0104||F:0105||F:0106||F:0107||F:0108

Submit

In the Call Presentation Group 1 section

- Set Destinations = IF:0201|IF:0202
- select Submit and then click "here" to return
- Return to this page

Call Presentation Group Configuration

Call Presentation Group 1			
Name	default		
Enable			
Interface	1001		
Sequence Mode	round_robin 👽		
Destination Timeout	180		
Destination Timeout Acti	on Try Next Destination 💌		
Max Destination Attempt	s 8		
Cause	17		
Submit			

Call Pro	esentatio	n Group 1
----------	-----------	-----------

Submit

In the Call Presentation Group 1 section

- Set Name = Local_Calling_Hunt
- ➢ Tick Enable

- Set Sequence Mode = Linear_up
- Set Max Destination Attempts = 2
- Set Cause = 34
- > select Submit and then click "here" to return

Call	Presentati	on Groups								
Del?	Call Presentation Group	Name	Enable	Interface	Sequence Mode	Destination Timeout	Destination Timeout Action	Max Destination Attempts	Cause	Chg?
	1	Local_Calling_Hunt	1	1001	linear_up	180	Hang Up	2	34	<u>Modify</u>
Add	Delete									

Call P	resentation Groups		
Del?	Call Presentation Group	Destinations	Chg?
	1	IF:0201 IF:0202	<u>Modify</u>
Add	Delete		

> On the left hand side menu select Dial Plan

Dial Planner

Profi	les				
Del?	Profile ID	Enabled	Name	Plans	Chg?
	1	1	FXS_to_Proxy	===>	<u>Modify</u>
	2	1	Proxy_to_FXS	===>	<u>Modify</u>
	3	1	FXS_Emergency_Calls	===>	Modify
Delet					

Delete Add

In the Profiles section

> Select Add

In the Profiles section, Profile ID 4

- ➢ Select Modify
- Set Name = Local_calls_to_FXO
- select Submit and then click "here" to return
- Return and modify the dial plan

Dial Planner > Profile 4 > Plan 1

Modify Plan	
Plan ID	1
Profile ID	4
Name	new_plan
Source	"TEL:<>>.
Destination	"IF:<1>,TEL:<2>"
Cost Index	0
Group	0 - no group 💌
Apply	Generate Prefix Match

In the Modify Plan section

- Set Name = 1344_to_local_hunt
- Set Source = IF:01..,TEL:<1344.*>
- Set Destination = IF:1001,TEL:<1>
- > select Apply and then click "here" to return

Remember to Save the changes.

Further details on Vega parameters may be found in the Vega Primer.

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