

# Initial configuration

## Vega 50 10 FXO

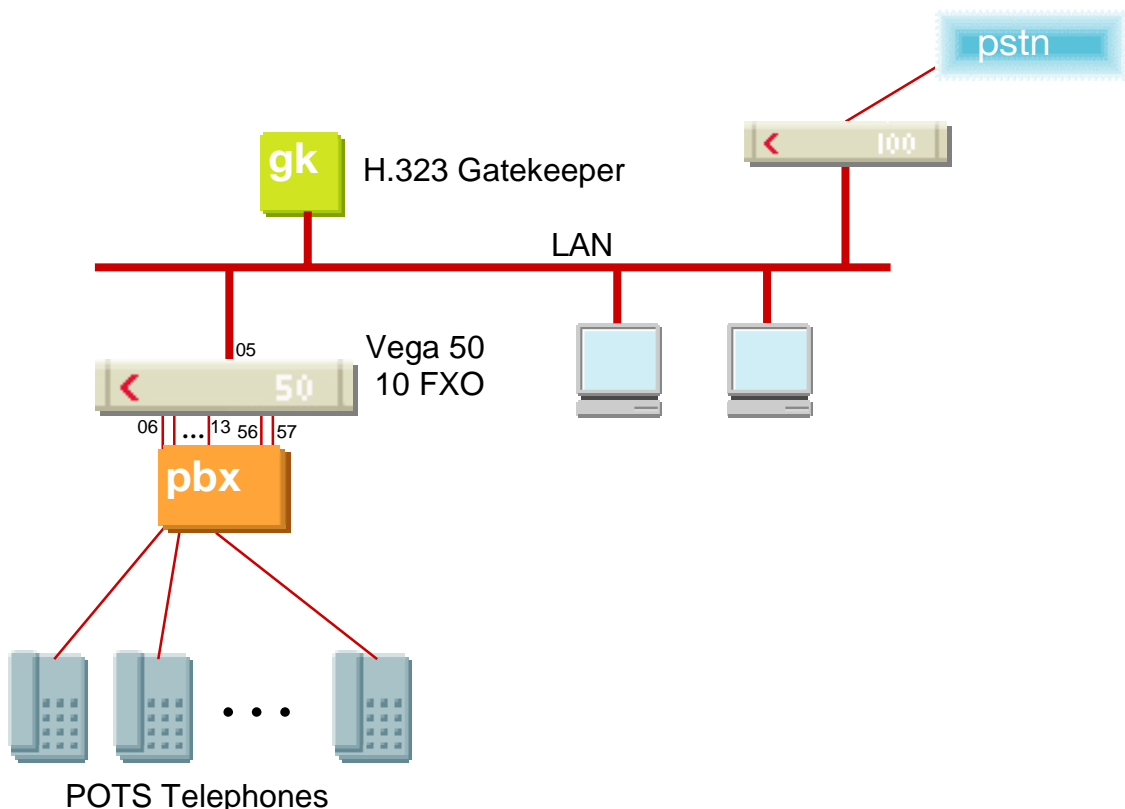
### (H.323) – R5.2



This document describes how to configure the Vega 50 10 FXO H.323 gateway using the web browser interface. The configuration described here will allow the Vega to be rapidly installed and tested.

The instructions below will configure the Vega 50 FXO (connected to 10 extension ports of a PBX or a CO Switch) to operate as follows:

- Calls presented to the Vega from the PBX or CO switch will be routed using the H.323 gatekeeper; the telephone number passed to the gatekeeper will be the port ID on which the call was received (06 .. 13 or 56, 57).
- Calls received by the Vega on the H.323 interface will be routed to one of the telephony interfaces. The physical interface over which the call is routed will be defined by the leading two digits of the telephone number (06 .. 13 or 56, 57). The digits following the leading two digits will be used as the digits to dial.

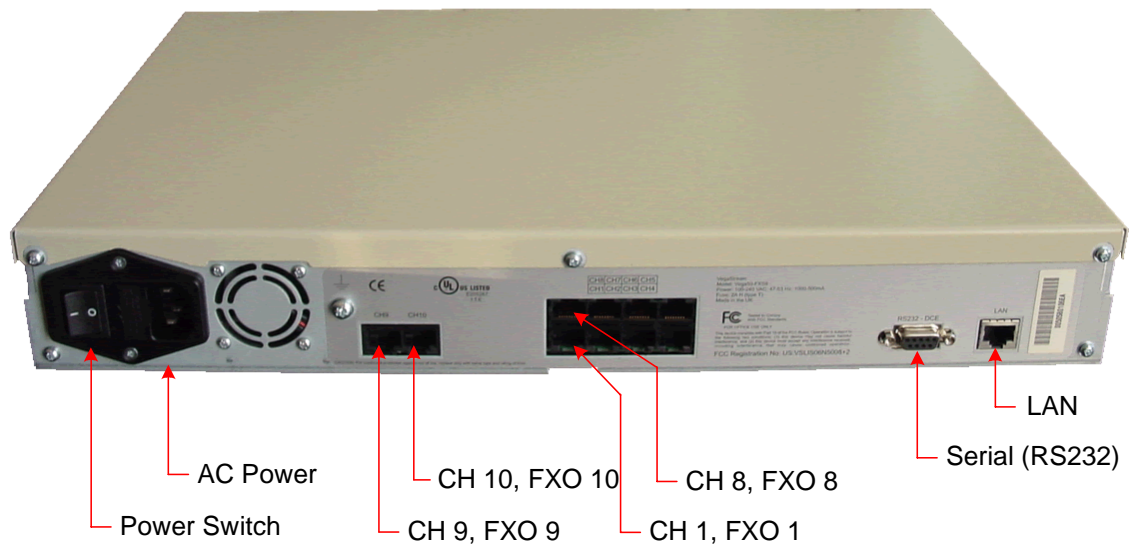


The configuration process is broken down into 11 stages as follows:

- 1 Connect your Vega to LAN, telephone lines 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 for Gatekeeper operation
- 7 Configure for Gatekeeper operation
- 8 Configure POTS parameters
- 9 Configure pointer to CD ROM documentation
- 10 Save Changes
- 11 Archive Vega Configuration

Please also see:

- 12 Technical Support



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

**LAN:**

Using the yellow booted cable connect the LAN port 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.

**Telephony:**

Connect telephones to FXS ports 1 to 8. Note the port numbers increase in an anticlockwise direction from the bottom left corner. And to ports 9 and 10 on the separate pair of connectors.

FXO 9 IF: 56	FXO 10 IF: 57	FXO 8 IF:13	FXO 7 IF:12	FXO 6 IF:11	FXO 5 IF:10
		FXO 1 IF:06	FXO 2 IF:07	FXO 3 IF:08	FXO 4 IF:09

**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.

The LAN LEDs will also illuminate indicating 10 (baseT) or 100 (baseTx) connection, and the FDX LED will illuminate if Full Duplex mode has been negotiated.

## 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 [3](#).

If DHCP is not 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 a 9 way male to female straight through 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
```

To display the current IP address, type:

```
> show lan.ip
```

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

```
> set lan.use_dhcp=0
> set lan.ip=aaa.bbb.ccc.ddd
> set lan.subnet=eee.fff.ggg.hhh
> set lan.gateway=iii.jjj.kkk.lll
> save
> reboot system
```

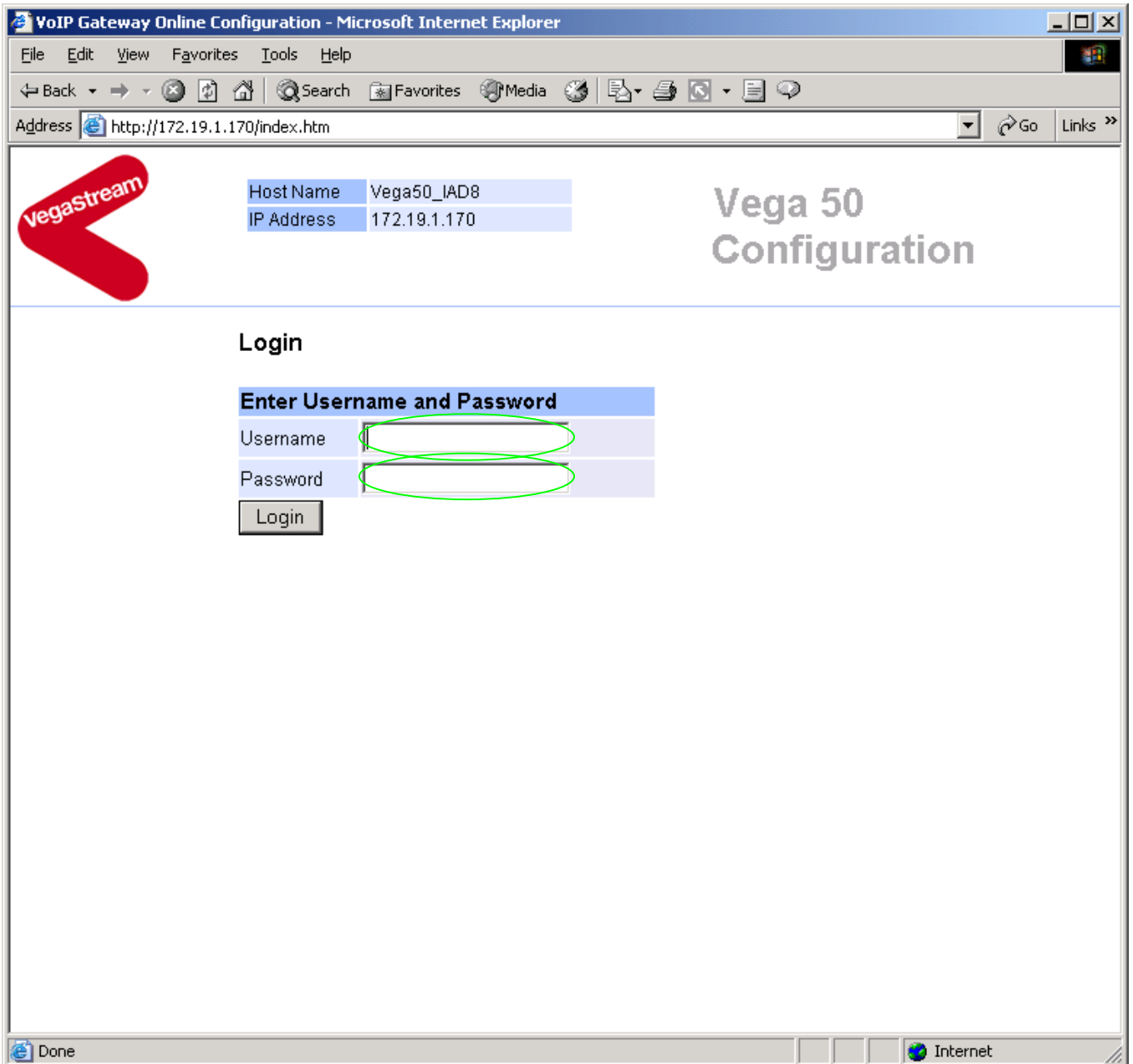
### 3. Configure password and login timeout

Now configuration will be carried out using a web browser.

➤ Enter the IP address of the Vega into the “Address” field of your web browser.



You will then be presented with the login page:



Enter the default Username and Password

- Username: admin
- Password: admin
- Select

- On the left hand side menu select [Users](#)

**Recommended:** Change the password

- enter New Password and Re-enter Password then
- select **Submit** and then click "[here](#)" to return

**Optional:** Change the timeout<sup>1</sup> – default is 240 seconds; can extend to 7200 seconds (2hrs)

- select **Submit** and then click "[here](#)" to return

<sup>1</sup> If the web 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

- On the left hand side menu select [LAN](#)
- Scroll down to see both **LAN Configuration** and **Physical layer Configuration** sections

The screenshot displays the Vega 5008/5010 Online Configuration interface. The left-hand navigation menu includes links for Management, Logging, Maintenance, LAN, POTS, H.323, Dial Plan, Media Channels, Tones, Users, QoS, and Advanced. The LAN Configuration section is active, showing fields for Host Name, IP Address, Subnet Mask, Domain Name Server, Default Gateway, TFTP Server, Network Time Server, and FTP Server. The Physical Layer Configuration section is also active, showing fields for Full Duplex, Ethernet Type (set to 10baseT & 100baseTX), and QoS profile. A Submit button is located below the Physical Layer Configuration section. A warning icon and 'Unsaved Configuration Changes' message are present at the top of the configuration area.

**Recommended:** In the **Physical Layer Configuration** section statically select the Ethernet Type as either 100baseTx or 10 baseT – whichever is appropriate - (not 10baseT & 100baseTx autoselection)

- select  and then click ["here"](#) to return

**Optional:** If there are any LAN values that need to be set up manually, set them up now (e.g. tftp and ftp addresses), then

- Select  and then click ["here"](#) to return



## 5. Configure the Dial Plan

➤ On the left hand side menu select [Dial Plan](#)

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

Vega 50 Configuration

Unsaved & Unapplied Changes

**Management**  
[Logging](#)  
[Maintenance](#)  
[LAN](#)  
[POTS](#)  
[H.323](#)  
**[Dial Plan](#)**  
[Media Channels](#)  
[Tones](#)  
[Users](#)  
[QoS](#)  
[Advanced](#)

**Dial Planner**

**Profiles**

Del?	Profile ID	Enabled	Name	Plans	Chg?
<input type="checkbox"/>	1	1	Vega50_IAD-8	====>	<a href="#">Modify</a>

Delete Add

**Planner Groups**

Del?	ID	Name	Cause	Lan	Gatekeeper	Active times	Priority	Chg?
<input type="checkbox"/>	1	LAN_Up	0	active	off	0000-2359	0	<a href="#">Modify</a>
<input type="checkbox"/>	2	LAN_Down	0	inactive	off	0000-2359	0	<a href="#">Modify</a>

Delete Add

**Planner Whitelist Enable**

Use Whitelist

Submit

**Planner Whitelists**

Del?	ID	Name	Number	Chg?
<input type="checkbox"/>	1	default	IF:.*	<a href="#">Modify</a>

Delete Add

Save  
Log off  
Help  
Reboot System  
Apply Changes

Firstly, turn off the default profile:

In the **Profiles** section

➤ Select [Modify](#)

[Dial Planner](#) > Profile 1

Modify Profile	
Profile ID	1
Enabled	<input checked="" type="checkbox"/>
Name	Vega50_IAD-8
<input type="button" value="Submit"/>	

- disable (un-tick) Enabled, then
- select  and then click "[here](#)" to return

Now create a new profile and in it create a dial plan entry to handle calls being sent outbound on the LAN:

**Dial Planner**

Profiles						
Del?	Profile ID	Enabled	Name	Plans	Chg?	
<input type="checkbox"/>	1	0	Vega50_IAD-8	====>	<a href="#">Modify</a>	
<input type="button" value="Delete"/>		<input type="button" value="Add"/>				

In the **Profiles** section

- Select

**Dial Planner**

Profiles						
Del?	Profile ID	Enabled	Name	Plans	Chg?	
<input type="checkbox"/>	1	0	Vega50_IAD-8	====>	<a href="#">Modify</a>	
<input type="checkbox"/>	2	1	new_profile	====>	<a href="#">Modify</a>	
<input type="button" value="Delete"/>		<input type="button" value="Add"/>				

In the **Profiles** section, on Profile 2 (the new profile):

- Select [Modify](#)

[Dial Planner](#) > Profile 2

Modify Profile	
Profile ID	2
Enabled	<input checked="" type="checkbox"/>
Name	new_profile
<input type="button" value="Submit"/>	

Plans in this Profile							
Del?	Plan ID	Name	Srcce	Dest	Cost	Group	Chg?
<input type="checkbox"/>	1	new_plan	TEL:<.><.*>	IF:<1>,TEL:<2>	0	0	<a href="#">Modify</a>
<input type="button" value="Delete"/>		<input type="button" value="Add"/>					

- Set Name = Outbound\_To\_LAN
- select  and then click "[here](#)" to return

## Dial Planner

Profiles					
Del?	Profile ID	Enabled	Name	Plans	Chg?
<input type="checkbox"/>	1	0	Vega50_IAD-8	====>	<a href="#">Modify</a>
<input type="checkbox"/>	2	1	Outbound_To_LAN	====>	<a href="#">Modify</a>

[Delete](#) [Add](#)

In the **Profiles** section, on Profile 2 (the new profile):



➤ Select [Modify](#)

Plans in this Profile							
Del?	Plan ID	Name	Src	Dest	Cost	Group	Chg?
<input type="checkbox"/>	1	new_plan	TEL:<.><.*>	IF:<1>,TEL:<2>	0	0	<a href="#">Modify</a>

[Delete](#) [Add](#)

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

➤ Select [Modify](#)

- Set Name = Any\_Tel\_Port
- Set Source = IF:<.[^5]> *(This takes a call from any of the telephony ports and stores the interface ID on which the call arrived in store <1>)*
- Set Destination = IF:05,TEL:<1> *(This routes the call to the H.323 interface and passes the calling port's interface ID – stored in <1> - as the destination telephone number)*
- Select  and then click "[here](#)" to return
- Select  ... to return to the **Dial Planner Profiles** section

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

In a similar manner to adding profile 2 add another profile, profile 3,

- Set Name = Inbound\_From\_LAN

Modify the first plan for Profile 3:

- Set Name = To\_FXO\_Ports
- Set Source = IF:05,TEL:<.><.\*> *(This takes the two leading digits of the telephone number presented and stores them in store <1>, the remainder of the digits are stored in <2>)*
- Set Destination = IF:<1>,TEL:<2> *(Use the 2 digits in store <1> as the interface ID to dial out from, and the digits in store <2> as the telephone number to dial)*
- Select  and then click "[here](#)" to return

**Note 1:** *The Relationship between physical ports and Interface Ids is as follows:*

*FXO 1 = IF:06*

*FXO 2 = IF:07*

*...*

*FXO 8 = IF:13*

*FXO 9 = IF:56*

*FXO 10 = IF:57*

*H.323 LAN = IF:05*

**Note 2:** *For calls from H.323 to the FXO lines, the gatekeeper must choose the appropriate interface on the Vega to dial out from; when the gatekeeper presents a call to the Vega the telephone number field must contain  $pp\ ttt\dots t$  where  $pp$  = port number (06, 07, ... 13, or 56 or 57) and  $ttt\dots t$  is the telephone number to onward dial.*

**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.**

## 6. Configure for Gatekeeper operation

- On the left hand side menu select [H.323](#)

VegaStream

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

Vega 50 Configuration

Unsaved & Unapplied Changes

**Management**  
**Logging**  
**Maintenance**  
**LAN**  
**POTS**  
**H.323**  
**Dial Plan**  
**Media Channels**  
**Tones**  
**Users**  
**QoS**  
**Advanced**

**H.323**

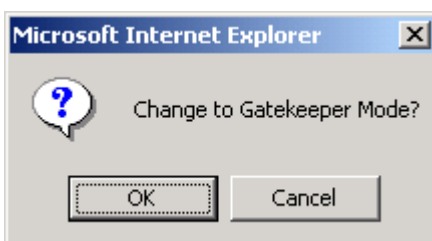
**Current Mode: Standalone Mode**  
Change to Gatekeeper mode Gatekeeper Mode

**H.323 Configuration**

Interface ID	05
Cost Index	1
Maximum Calls	10
Default Gateway	0.0.0.0
Use Fast Start	<input checked="" type="checkbox"/>
Accept Fast Start	<input type="radio"/> no <input type="radio"/> after connect <input checked="" type="radio"/> after alert <input type="radio"/> after proceeding
H245 After Fast Start	<input checked="" type="checkbox"/>
Use Early H245	<input type="checkbox"/>
Accept Early H245	<input checked="" type="checkbox"/>
Use H245 tunnelling	<input checked="" type="checkbox"/>
Accept H245 tunnelling	<input checked="" type="checkbox"/>
Setup Mapping	1
QoS profile	0

Save  
Log off  
Help  
Reboot System  
Apply Changes  
Submit


- Select Gatekeeper Mode



- Select OK


Vega 5008/5010 Online Configuration - Microsoft Internet Explorer

Address [http://172.19.1.170/vsframe?sid=584023992&frame\\_id=9](http://172.19.1.170/vsframe?sid=584023992&frame_id=9)



Host Name	Vega50_IAD8
IP Address	172.19.1.170
User Name	admin

# Vega 50 Configuration

 Unsaved & Unapplied Changes

**Management**  
[Logging](#)  
[Maintenance](#)  
[LAN](#)  
[POTS](#)  
**[H.323](#)**  
[Dial Plan](#)  
[Media Channels](#)  
[Tones](#)  
[Users](#)  
[QoS](#)  
[Advanced](#)

**H.323**

**Current Mode: Gatekeeper**

Change to Standalone Mode

**H.323 Configuration**

Interface ID	<input type="text" value="05"/>
Cost Index	<input type="text" value="1"/>
Maximum Calls	<input type="text" value="10"/>
Default Gateway	<input type="text" value="0.0.0.0"/>
Use Fast Start	<input checked="" type="checkbox"/>
Accept Fast Start	<input type="radio"/> no <input type="radio"/> after connect <input checked="" type="radio"/> after alert <input type="radio"/> after proceeding
H245 After Fast Start	<input checked="" type="checkbox"/>
Use Early H245	<input type="checkbox"/>
Accept Early H245	<input checked="" type="checkbox"/>
Use H245 tunnelling	<input checked="" type="checkbox"/>
Accept H245 tunnelling	<input checked="" type="checkbox"/>
Setup Mapping	<input type="text" value="1"/>
QoS profile	<input type="text" value="0"/>

Internet

➤ Scroll to the bottom of the page

- Either configure the H.323 Gatekeeper “Default Gatekeeper” with the IP address of the Gatekeeper, or tick Auto Discover.
  - select **Submit** and then click “[here](#)” to return

Set up the gatekeeper Terminal alias – this needs to match the gatekeeper’s expectations. By default it is turned off (Name=NULL), set it to, for example, alias Type=h323, Name=Vega50\_10FXO.

In the H.323 **Gatekeeper Terminal Alias** section

- select **Modify** and make the changes
- select **Submit** and then click “[here](#)” to return

If more than one alias is required then select **Add** and configure as required.



## 7. Configure audio parameters

- On the left hand side menu select [Media Channels](#)

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

**Vega 50 Configuration**

Unsaved & Unapplied Changes

**Media Channels**

**Codec Configuration**

- [g729AnnexA](#)
- [g729](#)
- [g711Alaw64k](#)
- [g711Ulaw64k](#)
- [g7231](#)
- [T38](#)

**H.245 Capabilities**

Del?	H245 Cap ID	Name	Chg?
<input type="checkbox"/>	1	g7231	<a href="#">Modify</a>
<input type="checkbox"/>	2	g711Alaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	3	g711Ulaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	4	t38tcp	<a href="#">Modify</a>
<input type="checkbox"/>	5	t38udp	<a href="#">Modify</a>

Delete [Add](#)

**H.245 Capability Descriptors**

Del?	ID	Description	Caps	Chg?
<input type="checkbox"/>	1	voice	1,2,3	<a href="#">Modify</a>
<input type="checkbox"/>	2	t38Tcp	4	<a href="#">Modify</a>

*Add more codecs so that by default the Vega will handle calls with any of the codecs it supports.*

In H.245 Capabilities

- Select [Add](#)

H.245 Capabilities			
Del?	H245 Cap ID	Name	Chg?
<input type="checkbox"/>	1	g7231	<a href="#">Modify</a>
<input type="checkbox"/>	2	g711Alaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	3	g711Ulaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	4	t38tcp	<a href="#">Modify</a>
<input type="checkbox"/>	5	t38udp	<a href="#">Modify</a>
<input type="checkbox"/>	6	g7231	<a href="#">Modify</a>

In H.245 Capabilities

- Select  again

H.245 Capabilities			
Del?	H245 Cap ID	Name	Chg?
<input type="checkbox"/>	1	g7231	<a href="#">Modify</a>
<input type="checkbox"/>	2	g711Alaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	3	g711Ulaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	4	t38tcp	<a href="#">Modify</a>
<input type="checkbox"/>	5	t38udp	<a href="#">Modify</a>
<input type="checkbox"/>	6	g7231	<a href="#">Modify</a>
<input type="checkbox"/>	7	g7231	<a href="#">Modify</a>

- Select [Modify](#) on H245 Cap ID 1

[Media Channels](#) > H.245 Capability 1

Modify Capability	
Capability ID	1
Name	<input type="text" value="g7231"/>
<input type="button" value="Submit"/>	<div style="border: 1px solid black; padding: 2px;"> g711Alaw64k  g711Ulaw64k  <b>g7231</b>  g729  g729AnnexA  t38tcp  t38udp </div>

- Select required codec type – in this case g7231
- select  and then click "[here](#)" to return

Modify all H245 Cap ID entries until the list looks as follows:

H.245 Capabilities			
Del?	H245 Cap ID	Name	Chg?
<input type="checkbox"/>	1	g7231	<a href="#">Modify</a>
<input type="checkbox"/>	2	g729AnnexA	<a href="#">Modify</a>
<input type="checkbox"/>	3	g729	<a href="#">Modify</a>
<input type="checkbox"/>	4	g711Alaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	5	g711Ulaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	6	t38tcp	<a href="#">Modify</a>
<input type="checkbox"/>	7	t38udp	<a href="#">Modify</a>

Now update the Capability Description list that tells the Vega which of the codecs it can use.

H.245 Capability Descriptors				
Del?	ID	Description	Caps	Chg?
<input type="checkbox"/>	1	voice	1,2,3	<a href="#">Modify</a>
<input type="checkbox"/>	2	t38Tcp	4	<a href="#">Modify</a>
<input type="checkbox"/>	3	t38Udp	5	<a href="#">Modify</a>

Update entry 1 to select all voice codecs, and the other entries to configure them for the correct capability ids.

For each capability:

- Select [Modify](#)
- Adjust them so that they have the capabilities as indicated below:

H.245 Capability Descriptors				
Del?	ID	Description	Caps	Chg?
<input type="checkbox"/>	1	voice	1,2,3,4,5	<a href="#">Modify</a>
<input type="checkbox"/>	2	t38Tcp	6	<a href="#">Modify</a>
<input type="checkbox"/>	3	t38Udp	7	<a href="#">Modify</a>

- Scroll to the bottom of the Media Channels page

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

**Vega 50 Configuration**

Unsaved & Unapplied Changes

Del?	H245 Cap ID	Name	Chg?
<input type="checkbox"/>	1	g7231	<a href="#">Modify</a>
<input type="checkbox"/>	2	g729AnnexA	<a href="#">Modify</a>
<input type="checkbox"/>	3	g729	<a href="#">Modify</a>
<input type="checkbox"/>	4	g711Alaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	5	g711Ulaw64k	<a href="#">Modify</a>
<input type="checkbox"/>	6	t38tcp	<a href="#">Modify</a>
<input type="checkbox"/>	7	t38udp	<a href="#">Modify</a>

Delete Add

**H.245 Capability Descriptors**

Del?	ID	Description	Caps	Chg?
<input type="checkbox"/>	1	voice	1,2,3,4,5	<a href="#">Modify</a>
<input type="checkbox"/>	2	t38Tcp	6	<a href="#">Modify</a>
<input type="checkbox"/>	3	t38Udp	7	<a href="#">Modify</a>

Delete Add

**H.245 Preferred Index**

Preferred Index 0 - no preference

Voice Capdesc Index 0 - no preference

Fax Capdesc Index 2 - t38Tcp

Submit

In the **H.245 Preferred Index** section:

- Set Voice Capdesc Index to: 1-voice

**H.245 Preferred Index**

Preferred Index 0 - no preference

Voice Capdesc Index 0 - no preference

Fax Capdesc Index 0 - no preference

Submit

1 - voice  
2 - t38Tcp  
3 - t38Udp

- select  and then click "[here](#)" to return

*This has selected all voice codecs to be offered for calls.*

With Fax Capdesc Index set to "2 - t38Tcp" it has selected this codec for fax transfers. Note, it is recommended that only a single T.38 codec is offered (as configured here), because if both are offered negotiations do not always complete correctly.

## 8. Configure POTS parameters

For FXO ports it is necessary to configure the Vega to recognise the cadence of the ring tone that it will receive to indicate that there is a new call for it, also the impedance of the FXO interface.

### **Configuring Ring Cadence Detection for FXO ports**

The Vega FXO ports are alerted to new telephony calls arriving by the PBX or CO switch presenting ringing voltage to the Vega. The Vega needs to have parameters adjusted to configure the detector for the ring tone(s) it is going to be presented with.

Now configure the FXO ring cadence detector so that it detects incoming ring cadences correctly:

- On the left hand side menu select [POTS](#)

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

Unsaved & Unapplied Changes

**POTS Configuration**

Port ID	Enabled	nt	Caller ID	Layer 1	Hardware profile	Interfaces	Chg?
1	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
2	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
3	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
4	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
5	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
6	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
7	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
8	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
9	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>
10	1	0	on	g711Alaw64k	1	====>	<a href="#">Modify</a>

**POTS Interface Profiles**  
[POTS Interface Profiles](#)

**Advanced POTS Configuration**  
[Advanced POTS](#)

Save  
Log off  
Help  
Reboot System  
Apply Changes

- Select [Advanced POTS](#)
- Scroll down to the **FXO Configuration** section

Host Name: Vega50\_IAD8  
IP Address: 172.19.1.170  
User Name: admin

**Vega 50 Configuration**

Unsaved & Unapplied Changes

**FXS Configuration**

**Ring Generation Parameters**

Del?	ID	Name	Fre-quency	Repeat	Ring1 On	Ring1 Off	Ring2 On	Ring2 Off	Ring3 On	Ring3 Off	Chg?
<input type="checkbox"/>	1	External	50	1	400	200	400	2000	0	500	<a href="#">Modify</a>
<input type="checkbox"/>	2	Internal	50	0	2000	4000	2000	4000	0	500	<a href="#">Modify</a>
<input type="checkbox"/>	3	bellcore-r1	20	1	400	400	900	400	400	3500	<a href="#">Modify</a>

Delete Add

**Hardware Profile Configuration**

Profile ID	Hookflash Debounce Time	Loop Current Break	Loop Current Delay	Loop Current Time	Hookflash Time	Line Reversal	Impedance	Chg?
1	70	off	9000	300	200	0	default	<a href="#">Modify</a>

Delete Add

**FXO Configuration**

**Hardware Profile Configuration**

Profile ID	Loop Current Detect	Loop Current Time	Hookflash Time	Early Line Seize	Early Line Seize Time	Line Reversal Detect	Force Disconnects	DTMF Holdoff Time	Ringback Present	Impedance	Port Release Delay	Port Not Released Cause	More	Chg?
1	0	300	200	0	30	0	1	200	1	CTR21	0	34	===>	<a href="#">Modify</a>

Delete Add

Save  
Log off  
Help  
Reboot System  
Apply Changes

- In the FXO Configuration **Hardware Profile Configuration** section select [Modify](#)
- Scroll down to the bottom of the page, to the **FXO ring-detection parameters** section

**Vega 50 Configuration**

Host Name: Vega50\_IAD8  
 IP Address: 172.19.1.170  
 User Name: admin

Unsaved & Unapplied Changes

Early Line Seize Timeout (s)	30
Line Reversal Detection	<input type="checkbox"/>
Line Reversal Debounce Time (ms)	50
Force Disconnects	<input checked="" type="checkbox"/>
DTMF Hold-off Time (ms)	200
Line Reversal Sample Delay (ms)	50
Ringback Present	<input checked="" type="checkbox"/>
Impedance	CTR21
Port Release Delay (s)	0
Port Not Released Cause Code	34

Submit

**FXO ring-detection parameters**

Ring Cadence Delta	14
Ring Cadence Threshold	56
Ring Cadence Limit	200

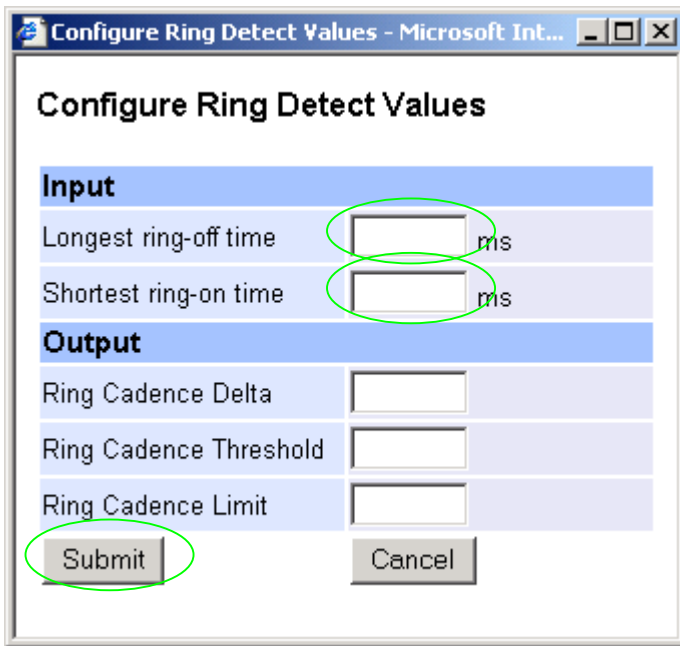
Submit

Configure Ring Detect Values

Save  
 Log off  
 Help  
 Reboot System  
 Apply Changes

Refresh

➤ Select



- Set Longest ring-off time = length of longest silence in the incoming ringing voltage cadence
- Set Shortest ring-on time = length of shortest ring in the incoming ringing voltage cadence
- select

Table 1 lists the standard values to use in the UK and USA.

**Table 1. Ring tones parameters**

Country	UK	USA
Longest silence	2000ms	4000ms
Shortest ring	400ms	2000ms



- select **Submit** and then click "[here](#)" to return

Now configure the interface impedance

- On the left hand side menu select [POTS](#)
- Select [Advanced POTS](#)
- Scroll down to the **FXO Configuration** section

Vega 5008/5010 Online Configuration - Microsoft Internet Explorer

Address: http://172.19.1.170/vsframe?sid=584023992&frame\_id=32

**VegaStream**

Host Name: Vega50\_IAD8  
 IP Address: 172.19.1.170  
 User Name: admin

Vega 50 Configuration

⚠ Unsaved & Unapplied Changes

**FXS Configuration**

**Ring Generation Parameters**

Del?	ID	Name	Fre-quency	Repeat	Ring1 On	Ring1 Off	Ring2 On	Ring2 Off	Ring3 On	Ring3 Off	Chg?
<input type="checkbox"/>	1	External	50	1	400	200	400	2000	0	500	<a href="#">Modify</a>
<input type="checkbox"/>	2	Internal	50	0	2000	4000	2000	4000	0	500	<a href="#">Modify</a>
<input type="checkbox"/>	3	bellcore-r1	20	1	400	400	900	400	400	3500	<a href="#">Modify</a>

Delete Add

**Hardware Profile Configuration**

Profile ID	Hookflash Debounce Time	Loop Current Break	Loop Current Delay	Loop Current Time	Hookflash Time	Line Reversal	Impedance	Chg?
1	70	off	9000	300	200	0	default	<a href="#">Modify</a>

Delete Add

**FXO Configuration**

**Hardware Profile Configuration**

Profile ID	Loop Current Detect	Loop Current Time	Hookflash Time	Early Line Seize	Early Line Seize Time	Line Reversal Detect	Force Disconnects	DTMF Holdoff Time	Ringback Present	Impedance	Port Release Delay	Port Not Released Cause	More	Chg?
1	0	300	200	0	30	0	1	200	1	CTR21	0	34	====>	<a href="#">Modify</a>

Delete Add

Save  
 Log off  
 Help  
 Reboot System  
 Apply Changes

- In the FXO Configuration **Hardware Profile Configuration** section select [Modify](#)

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

Vega 50 Configuration

Unsaved & Unapplied Changes

Management  
Logging  
Maintenance  
LAN  
POTS  
H.323  
Dial Plan  
Media Channels  
Tones  
Users  
QoS  
Advanced

POTS > Advanced > FXO > 1

**FXO parameters**

Loop Current Detect	<input type="checkbox"/>
Loop Current Time	300
Hook Flash Time (ms)	200
Early Line Seize	<input type="checkbox"/>
Early Line Seize Time	30
Early Line Seize Timeout (s)	30
Line Reversal Detection	<input type="checkbox"/>
Line Reversal Debounce Time (ms)	50
Force Disconnects	<input checked="" type="checkbox"/>
DTMF Hold-off Time (ms)	200
Line Reversal Sample Delay (ms)	50
Ringback Present	<input checked="" type="checkbox"/>
Impedance	CTR21
Port Release Delay (s)	0
Port Not Released Cause Code	34

Save  
Log off  
Help  
Reboot System  
Apply Changes

Submit

- In the **FXO parameters** section, select the appropriate Impedance for the lines that the Vega FXO ports are to be connected to:
  - CTR21 (typically Europe)
  - 600R (typically US)
  - 900R
  - default
- select  and then click [here](#) to return

## 9. Configure pointer to CD ROM documentation

- On the left hand side menu select [LAN](#)
- Scroll to the bottom of the screen

VegaStream

Host Name Vega50\_IAD8  
IP Address 172.19.1.170  
User Name admin

### Vega 50 Configuration

Unsaved & Unapplied Changes

Subnet Mask 255.255.254.0

Domain Name Server 0.0.0.0 Use DHCP

Default Gateway 136.170.208.1 Use DHCP

TFTP Server 172.19.1.107 Use DHCP

Network Time Server 0.0.0.0 Use DHCP

FTP Server 136.170.209.118

NTP Offset (hhmm) 0000

NTP Poll Interval 0

#### Physical Layer Configuration

Full Duplex

Ethernet Type 10baseT & 100baseTX

QoS profile 1

Submit

#### Lan Hosts

ID	Name	IP	Chg?
1	loopback	127.0.0.1	<a href="#">Modify</a>

Delete Add

#### Advanced LAN Configuration

[Advanced LAN](#)

- Select [Advanced LAN](#)

To configure for operation using the CD in the local PC CD-ROM drive,

- Set Path or URL = D:/Content/help/v50\_10fxo\_h\_R5.htm  
... N.B. use forward slashes “/” not back slashes “\”.

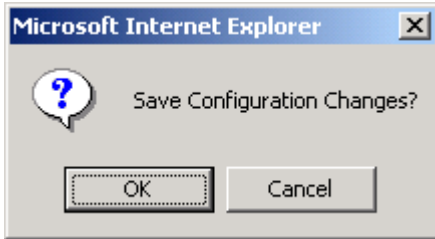
(Substitute appropriate drive letter if D: is not the CD-ROM)

- select  and then click “[here](#)” to return

## 10. Save Changes

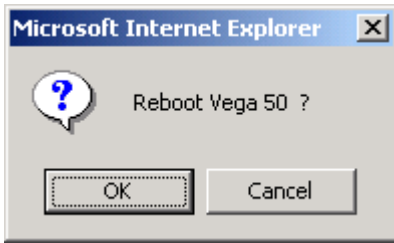
The changes to the configuration must be saved and activated. This is carried out as follows:

- Select



- Select  and after the configuration has been saved click ["here"](#) to return

- Select



- Select

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

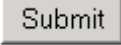
## 11. Archive Vega Configuration

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 [LAN](#) page), then on the left hand side menu select [Advanced](#), and scroll to the CLI Command section:



The screenshot shows a web interface for the CLI Command section. It features a blue header bar with the text 'CLI Command'. Below the header is a white text input field with a light blue border. To the right of the input field is a grey button with the text 'Submit'.

- in the text entry box type “PUT tftp:initial\_cfg.txt”. Select .

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 [LAN](#) 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 configure the following:

- set \_advanced.lan.ftp.anonymous\_login=0
- set \_advanced.lan.ftp.username=<ftp username>
- set \_advanced.lan.ftp.\_password-<ftp password>

## 12. Technical Support

Support information can be found on the VegaStream Support web site [www.VegaAssist.com](http://www.VegaAssist.com)

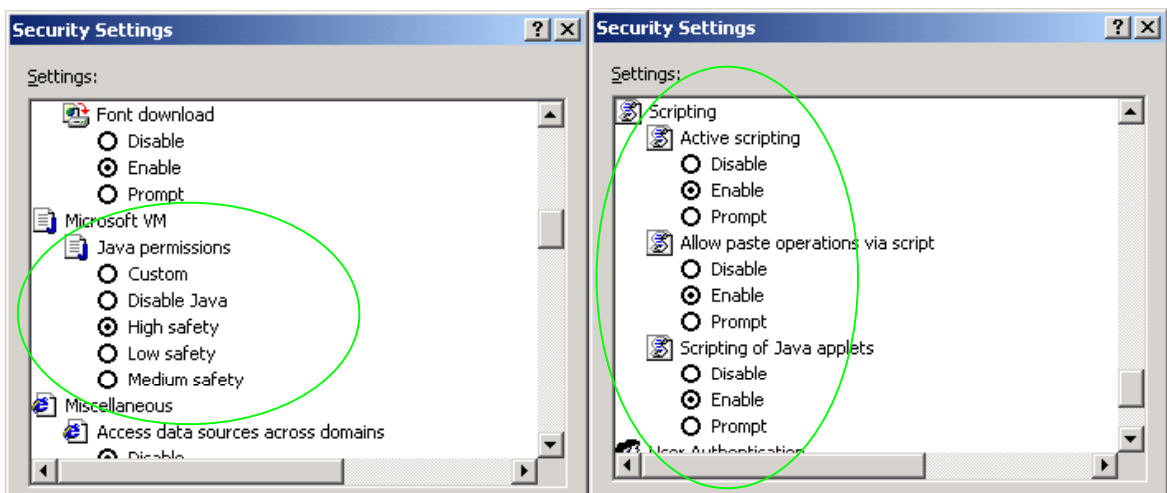
If you require help from VegaStream support personnel, please use the serial interface or telnet into the unit, log in and then type:

- 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 [support@VegaStream.com](mailto:support@VegaStream.com) 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.
3. Loss of audio mid call – consider reducing the selection of available codecs (see section 1.5). 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 1.5).
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”.



Contact Details

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