

# Initial configuration

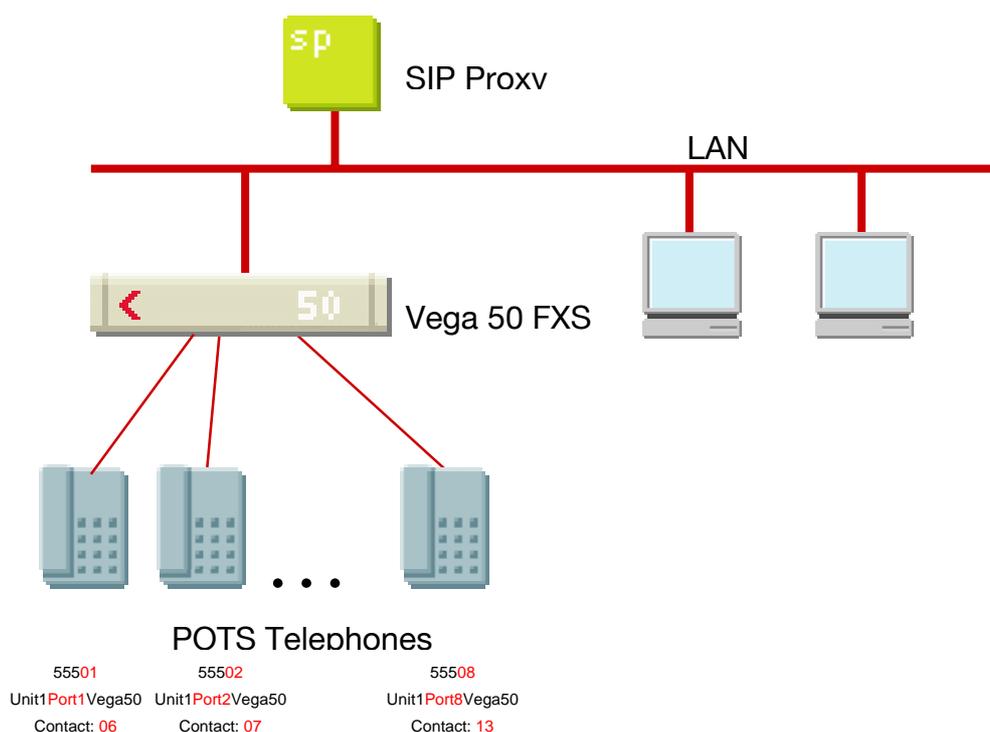
## Vega 50 FXS (SIP) – R5.1



This document describes how to configure the Vega 50 FXS SIP unit 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 FXS to operate as follows:

- Calls made by any of the attached analogue phones will be routed to the SIP proxy; the Vega will pass on any dialled digits
- Calls received from the SIP proxy must have a 2-digit “dialled number”, 06 to 13, to identify which of the 8 telephones to ring. (The translation of the telephone number to the 2-digit dialled number is carried out in the SIP proxy as the Vega registers the 2-digit dialled numbers against the user access numbers (registered addresses).)



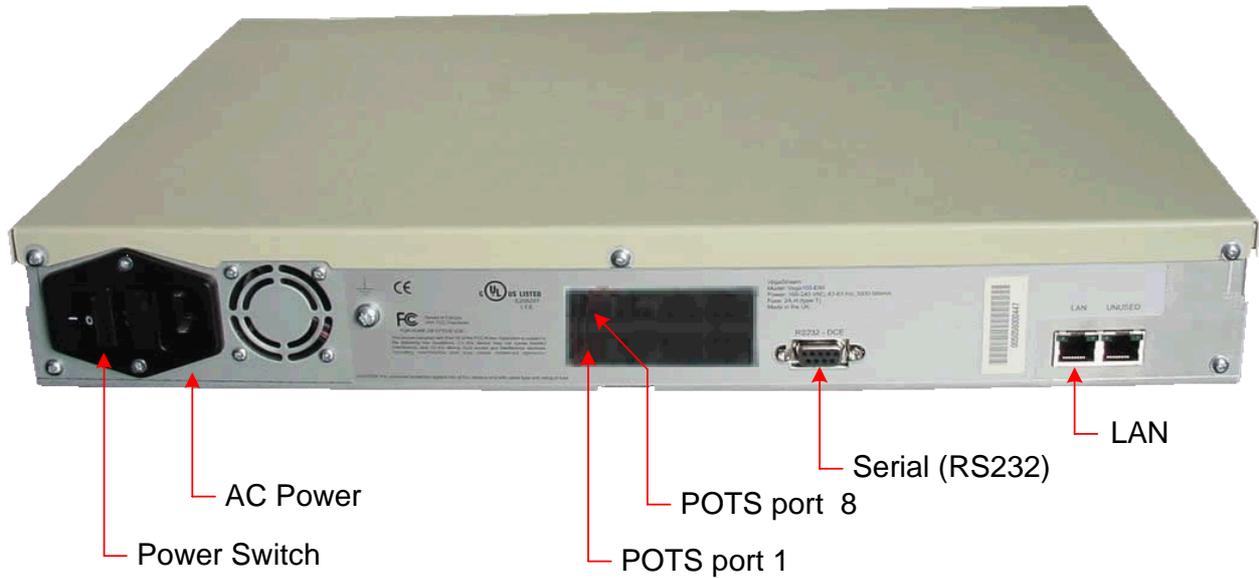
The configuration process is broken down into 12 stages as follows:

- 1 Connect your Vega to LAN, telephones 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 and audio parameters
- 7 Configure Authentication
- 8 Configure Registration
- 9 Configure POTS parameters
- 10 Configure pointer to CD ROM documentation
- 11 Save Changes
- 12 Archive Vega Configuration

Please also see:

- 13 Technical Support

# 1. Connect your Vega to LAN, telephones 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 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 POTS ports 1 to 8. Note the port numbers increase in an anticlockwise direction from the bottom left corner.

Port 8 IF:13	Port 7 IF:12	Port 6 IF:11	Port 5 IF:10
Port 1 IF:06	Port 2 IF:07	Port 3 IF:08	Port 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

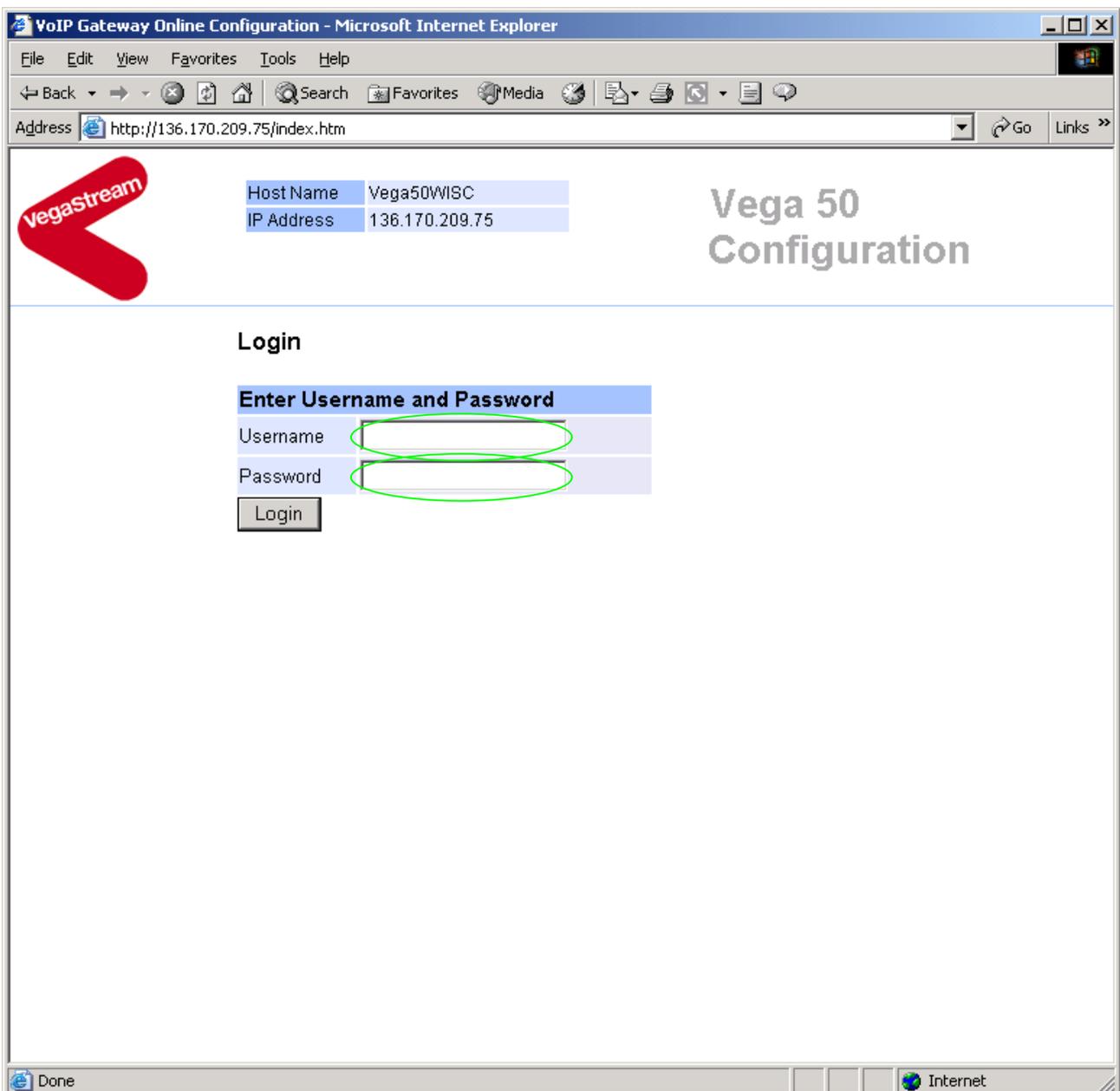
### 3. Configure password and login timeout

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.



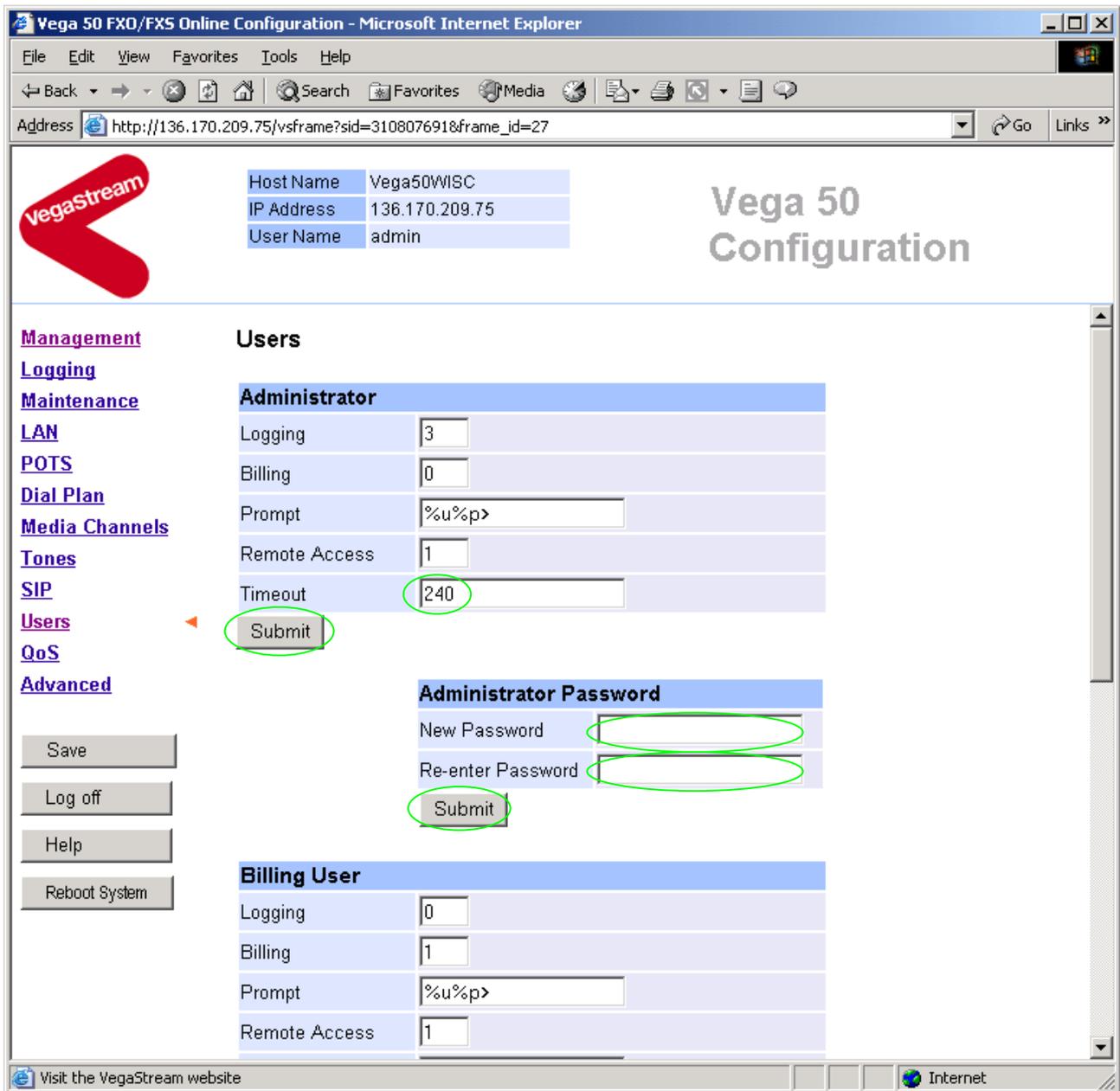
You will then be presented with the login page:



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

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

- select  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](#)

Host Name Vega50WISC  
IP Address 136.170.209.75  
User Name admin

Unsaved Configuration Changes

**Local Area Network (changed)**

Warning: Changing these parameters may prevent remote access.

**Current Mode: Standard Ethernet Mode**

Change to VLAN (8021q) Ethernet mode | VLAN Mode

**LAN Configuration**

Use DHCP	<input checked="" type="checkbox"/>	
Host Name	Vega50WISC	
IP Address	DHCP defined	
Subnet Mask	DHCP defined	
Domain Name Server	DHCP defined	Use DHCP <input checked="" type="checkbox"/>
Default Gateway	DHCP defined	Use DHCP <input checked="" type="checkbox"/>
TFTP Server	DHCP defined	Use DHCP <input checked="" type="checkbox"/>
Network Time Server	DHCP defined	Use DHCP <input checked="" type="checkbox"/>
FTP Server	0.0.0.0	
NTP Offset (hhmm)	0000	
NTP Poll Interval	0	

**Physical Layer Configuration**

Full Duplex	<input type="checkbox"/>
-------------	--------------------------

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

- 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 Vega50WISC  
IP Address 136.170.209.75  
User Name admin

Vega 50 Configuration

Unsaved Configuration Changes

**Management**  
[Logging](#)  
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[QoS](#)  
[Advanced](#)

Save  
Log off  
Help  
Reboot System

### Dial Planner

#### Profiles

Del?	Profile ID	Enabled	Name	Plans	Chg?
<input type="checkbox"/>	1	1	Vega50_default	==>	<a href="#">Modify</a>

Delete Add

#### Planner Groups

Del?	ID	Name	Cause	Lan	Gatekeeper	Active times	Priority	Chg?
<input type="checkbox"/>	1	Default	0	off	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

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_default
<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_default	====>	<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_default	====>	<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	<input type="text" value="new_profile"/>

**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>

- 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_default	===>	<a href="#">Modify</a>
<input type="checkbox"/>	2	1	Outbound_To_LAN	===>	<a href="#">Modify</a>

In the **Profiles** section, on Profile 2:

- 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>

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

- Select [Modify](#)

- Set Name = Any\_Tel\_Port
- Set Source = IF: [^9] . , TEL:<.\*> *(This takes a call from any of the 8 telephony ports and stores the number dialled in store <1>)*
- Set Destination = IF: 99 , TEL:<1> *(This routes the call to IF:99 (the SIP proxy) and passes the dialled number on as the dialled digits)*
- Select  and then click "[here](#)" to return
- Select  ... to return to the **Dial Planner Profiles** section

Now create 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 = Any\_Tel\_Port
- Set Source = IF:99,TEL:<...> *(For calls from IF:99 (SIP), take the two digits presented as the telephone number and store them in store <1>)*
- Set Destination = IF:<1> *(The interface ID (telephone) to ring is defined by the 2 digits passed in store <1>)*
- Select  and then click "[here](#)" to return

**Note:** *The SIP proxy must choose the appropriate interface on the Vega to dial out from; when a call is presented to the Vega, the INVITE message starts something like:*

```
INVITE sip:06@172.20.11.2 SIP/2.0
```

*The digits preceding the @ are then provided to the dial planner as the source TEL:. Hence in the dial plan above the calls coming from the LAN (IF:99) must have a 2-digit dialled number (whose value must be 06 ... 13 for valid Vega 50 interface IDs), which is used to define which telephone 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.**

## 6. Configure SIP and audio parameters

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

Host Name Vega50WISC  
IP Address 136.170.209.75  
User Name admin

Unsaved & Unapplied Changes

**Management**  
[Logging](#)  
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**SIP Configuration**

**General**

Default Proxy Host Name/IP 0.0.0.0  
Local Domain vegastream.com  
Local SIP Port 5060  
Remote SIP Port 5060  
Accept Non-Proxy Invites   
QoS profile 0  
**Submit**

**Multiple Proxy Support**

Mode  normal  cyclic  
Minimum Valid Response 180  
Timeout (ms) 5000

Backup Proxy	Enabled	IP/Name	Port	Chg?
1	1	0.0.0.0	5060	<a href="#">Modify</a>
2	1	0.0.0.0	5060	<a href="#">Modify</a>

**Delete** **Add**  
**Submit**

In the **General** section:

- set Default Proxy Host Name/IP = IP\_address\_of\_SIP\_proxy, or  
DNS\_hostname\_of\_the\_SIP\_Proxy
- set Local Domain =  
Public\_name\_of\_proxy\_used\_by\_other\_devices\_to\_send\_their\_INVITES\_to  
(this value is the "outside world's" name or IP address for the proxy)

**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 the calls to the Vega ensure that this tick box is clear.

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

In the **Audio** section

- Select the audio codecs desired using the drop down menus

Unless there is a specific reason not to allow a specific codec to be used, it is recommended that all codecs should be enabled as follows:

Audio	
Audio Profile 1	<input type="text" value="G723"/>
Audio Profile 2	<input type="text" value="G729"/>
Audio Profile 3	<input type="text" value="G711 Ulaw"/>
Audio Profile 4	<input type="text" value="G711 Alaw"/>
<input type="button" value="Submit"/>	

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

## 7. Configure Authentication

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 userID and a password can be configured. The userID is constructed from three parts

`auth_usernumber_prefix`, `auth_usernumber` and `auth_usernumber_suffix` each of which may be configured with alphanumeric values.

The prefix and suffix entries are defined per POTS port profile and the `auth_usernumber` is configured per POTS port. Setting parameters to NULL tells the Vega to omit anything from this parameter (capitalisation of NULL is important).

The values to enter here must match the values that have been configured as the authorisation user and password in the proxy.

To configure Authentication, follow the following procedure:

- On the left hand side menu select [SIP](#)
- Scroll down to the bottom of the page

Vega 50 FX0/FXS Online Configuration - Microsoft Internet Explorer

Address: http://136.170.209.75/vsframe?sid=-123744450&frame\_id=52



Host Name	Vega50WISC
IP Address	136.170.209.75
User Name	admin

## Vega 50 Configuration

- Management
- Logging
- Maintenance
- LAN
- POTS
- Dial Plan
- Media Channels
- Tones
- SIP
- Users
- QoS
- Advanced

**Miscellaneous**

SIP Signalling Transport	<input checked="" type="radio"/> udp <input type="radio"/> tcp
Reliable Provisional Responses	<input type="radio"/> supported <input type="radio"/> require <input checked="" type="radio"/> off
DTMF Transport	<input checked="" type="radio"/> rfc2833 <input type="radio"/> info <input type="radio"/> rfc2833 and tx info <input type="radio"/> off
DTMF INFO	<input checked="" type="radio"/> mode1 <input type="radio"/> mode2
RFC2833 payload (96-127)	<input type="text" value="96"/>
Enable T38	<input checked="" type="checkbox"/>
Enable Fax	<input checked="" type="checkbox"/>
Fax Detect	<input type="radio"/> always <input checked="" type="radio"/> terminating
Signalling Application ID	<input type="text" value="none"/>
T1 Retry Timer Increment (ms)	<input type="text" value="500"/>
T2 Retry Timer Limit (ms)	<input type="text" value="4000"/>
Interface ID	<input type="text" value="99"/>
Cost	<input type="text" value="1"/>
Maximum Calls	<input type="text" value="60"/>

Submit

**Advanced SIP Configuration**

[Advanced SIP](#)

Save  
Log off  
Help  
Reboot System

Internet

- Select [Advanced SIP](#)

Host Name Vega50WISC  
IP Address 136.170.209.75  
User Name admin

## Vega 50 Configuration

**Management**  
[Logging](#)  
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**SIP > Advanced**

Advanced SIP parameters	
BYE-Also INVITE to proxy	<input type="checkbox"/>
REFER INVITE to proxy	<input type="checkbox"/>
Send CANCEL to all forks	<input checked="" type="checkbox"/>
User-Agent header	<input checked="" type="checkbox"/>
Use 'local domain' in To header	<input checked="" type="checkbox"/>
Use 'local domain' in From header	<input checked="" type="checkbox"/>
Use Request-URI in call dialog matching	<input type="checkbox"/>
183 Session Progress if media present	<input type="checkbox"/>
early OK timer (0=off)	<input type="text" value="0"/>
Use authentication users	<input checked="" type="checkbox"/>
Parse Remote Party-ID header	<input type="checkbox"/>
SDP control	
Single media description in T38 INVITE	<input type="checkbox"/>
Connection information in session description only	<input type="checkbox"/>
SIP INFO messages	
Transmit DTMF INFO messages	<input checked="" type="checkbox"/>
Transmit hookflash INFO messages	<input checked="" type="checkbox"/>

Save  
Log off  
Help  
Reboot System

Submit

- Select (tick) Use authentication users, then
- select  and then click "[here](#)" to return
- On the left hand side menu select [POTS](#)

➤ **Configure the Authentication versions of**

User Number Prefix and User Number Suffix, eg NULL, NULL

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

The User Number and password are configured on a per port (group) basis.

- Scroll down to the **QSLAC Codec Configuration** section

QSLAC Codec Configuration						
QSL ID	Enabled	Layer 1	Caller ID	Groups	Chg?	
1	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
2	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
3	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
4	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
5	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
6	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
7	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	
8	1	g711Alaw64k	on	====>	<a href="#">Modify</a>	

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

In the **QSLAC Codec Configuration** section, for QSL ID 1

➤ Select [Modify](#)

[POTS](#) > **QSLAC 1**

Modify QSL	
QSL ID	1
Enabled	<input checked="" type="checkbox"/>
Layer 1	<input type="text" value="g711Alaw64k"/>
Caller ID	<input type="text" value="on"/>
NT	<input checked="" type="checkbox"/>

[Submit](#)

Groups in this QSL											
Group ID	User Name	User Number	Authentication User Name	Authentication User Number	Password	Interface	Reg Enable	Cost	DN	Ring Index	Chg?
1	port1	01	port1	01	user1	06	1	1	06	2	<a href="#">Modify</a>

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

In the **Groups in this QSL** section, for Group ID 1

➤ Select [Modify](#)

[POTS](#) > [QSLAC 1](#) > **Codec Group 1**

Modify QSL Group	
Group ID	1
QSL ID	1
User Name	<input type="text" value="port1"/>
Enable Registration	<input checked="" type="checkbox"/>
User Number	<input type="text" value="01"/>
Authentication User Name	<input type="text" value="port1"/>
Authentication User Number	<input type="text" value="01"/>
Password	<input type="text" value="user1"/>
Interface	<input type="text" value="06"/>
Cost	<input type="text" value="1"/>
DN	<input type="text" value="06"/>
Ring Index	<input type="text" value="2"/>
<input type="button" value="Submit"/>	

- Configure Authentication User Number and Password
- select  and then click "[here](#)" to return

- On the left hand side menu select [POTS](#)
- Scroll down to the **QSLAC Codec Configuration** section
- Repeat configuring the Authentication User Number and Password for all other QSL Ids

QSLAC Codec Configuration					
QSL ID	Enabled	Layer 1	Caller ID	Groups	Chg?
1	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
2	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
3	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
4	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
5	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
6	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
7	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
8	1	g711Alaw64k	on	====>	<a href="#">Modify</a>
<input type="button" value="Delete"/>		<input type="button" value="Add"/>			

## 8. Configure Registration

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 is to use to make the call on that port on the Vega

When a SIP call request is sent to the SIP proxy, it receives the call to a public address, it then performs a translation from the public address to the contact format, and uses the contact format 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>
```

The Vega registers twice for each physical port – once using a numeric address, and once using an alphanumeric address. Both registrations use the same contact address, so that when a call arrives, the Vega is not aware of whether the call was made using the numeric URL, or whether the call was made using the alphanumeric URL.

For the alphanumeric registration, `Public_Address` is made up of `Username_prefix`, `Username`, and `Username_suffix`; the prefix and suffix being per unit values and the `Username` being per port values.

For the numeric registration, `Public_Address` is made up of `Usenumber_prefix`, `Usenumber`, and `Usenumber_suffix`; the prefix and suffix being per unit values and the `Usenumber` being per port values.

The registration details are configurable using the Command Line Interface or the web browser interface.

Alphanumeric registration (name registration) uses configurable entries:

- `Username_prefix` ... per unit value
- `Username` ... per port value
- `Username_suffix` ... per unit value
- `Local Domain (Registration_Domain)` ... already configured in section 6
- `DN` ... per port value
- `Host_Name_or_IP_address_of_Vega` ... set up by DHCP or in section 4

Name Registration message format:

```
--- address:
    Username_prefixUsernameUsername_suffix@Registration_Domain
--- contact:
    <sip:DN@Host_Name_or_IP_address_of_Vega>
```

Numeric registration uses configurable entries:

- Usernumber\_prefix ... per unit value
- Usernumber ... per port value
- Usernumber\_suffix ... per unit value
- Local Domain (Registration\_Domain) ... already configured in section 6
- DN ... per port value
- Host\_Name\_or\_IP\_address\_of\_Vega ... set up by DHCP or in section 4

Number Registration message format:

```
--- address:
    Usernumber_prefixUsernumberUsernumber_suffix@Registration_Domain
--- contact:
    <sip:DN@Host_Name_or_IP_address_of_Vega>
```

e.g. to set up registration so that the Vega registers:

#### Port 1

```
--- address:
    Unit1Port1Vega50@Registration_Domain
--- contact:
    <sip:06@Host_Name_or_IP_address_of_Vega>
--- address:
    55501@Registration_Domain
--- contact:
    <sip:06@Host_Name_or_IP_address_of_Vega>
    .
    .
    .
```

#### Port 8 Name

```
--- address:
    Unit1Port8Vega50@Registration_Domain
--- contact:
    <sip:13@Host_Name_or_IP_address_of_Vega>
--- address:
    55508@Registration_Domain
--- contact:
    <sip:13@Host_Name_or_IP_address_of_Vega>
```

- On the left hand side menu select [SIP](#)
- Scroll down to the **Registration** section

- Tick Register on Start-up

*This will cause the Vega to register with the proxy every time it is powered on or re-booted*

- set Registrar Host Name/IP =

IP\_or\_DNS\_name\_of\_SIP\_registrar\_or\_machi  
ne\_proxying\_for\_the\_registrar

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

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

- Set User Name Prefix = Unit1
- Set User Number Prefix = 555
- Set User Name Suffix = Vega50
- Set User Number Suffix = NULL *(NULL specifies no suffix; NULL must be in capitals)*
- select  and then click [here](#) to return

The per port entries are configured through the **QSLAC Codec Configuration** section

- Scroll down to the **QSLAC Codec Configuration** section:

Host Name Vega50WISC  
 IP Address 136.170.209.75  
 User Name admin

**Vega 50 Configuration**

Unsaved & Unapplied Changes

**Management**  
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User Number Suffix

Authentication User Name Prefix

Authentication User Number Prefix

Authentication User Name Suffix

Authentication User Number Suffix

**QSLAC Codec Configuration**

QSL ID	Enabled	Layer 1	Caller ID	Groups	Chg?
1	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
2	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
3	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
4	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
5	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
6	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
7	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
8	1	g711Alaw64k	on	===>	<a href="#">Modify</a>

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

On QSL ID 1:

- Select [Modify](#)

[POTS](#) > [QSLAC 1](#)

Modify QSL	
QSL ID	1
Enabled	<input checked="" type="checkbox"/>
Layer 1	g711Alaw64k
Caller ID	on
NT	<input checked="" type="checkbox"/>
<input type="button" value="Submit"/>	

Groups in this QSL											
Group ID	User Name	User Number	Authentication User Name	Authentication User Number	Password	Interface	Reg Enable	Cost	DN	Ring Index	Chg?
1	port1	01	port1	01	user1	06	1	1	06	2	<a href="#">Modify</a>
<input type="button" value="Delete"/> <input type="button" value="Add"/>											

In **Groups in this QSL**, for Group ID 1

- Select [Modify](#)

[POTS](#) > [QSLAC 1](#) > **Codec Group 1**

Modify QSL Group	
Group ID	1
QSL ID	1
User Name	port1
Enable Registration	<input checked="" type="checkbox"/>
User Number	01
Authentication User Name	port1
Authentication User Number	01
Password	user1
Interface	06
Cost	1
DN	06
Ring Index	2
<input type="button" value="Submit"/>	

- set User Name = Port1
- check User Number = 01
- check that DN = 06
- check that Enable registration is ticked
- select  and then click "[here](#)" to return
- select  ... to return to QSLAC Codec Configuration

Repeat for QSL ID 2:

- set User Name = Port2
- check User Number = 02
- check that DN = 07
- check that Enable registration is ticked

Repeat for QSL ID 3:

- set User Name = Port3
- check User Number = 03
- check that DN = 08
- check that Enable registration is ticked

Etc up to:

Repeat for QSL ID 8:

- set User Name = Port8
- check User Number = 08
- check that DN = 13
- check that Enable registration is ticked

*When a remote caller attempts to contact any of the Name or Number URL addresses the SIP registrar will look up the registration information and will translate the URL, causing the Vega to be called at the appropriate contact address (DN@Host\_Name\_or\_IP\_address\_of\_Vega).*

## 9. Configure POTS parameters

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

Host Name Vega50WISC  
IP Address 136.170.209.75  
User Name admin

Unsaved & Unapplied Changes

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

User Number Suffix NULL  
Authentication User Name Prefix NULL  
Authentication User Number Prefix NULL  
Authentication User Name Suffix vega1  
Authentication User Number Suffix 01

Submit

**QSLAC Codec Configuration**

QSL ID	Enabled	Layer 1	Caller ID	Groups	Chg?
1	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
2	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
3	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
4	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
5	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
6	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
7	1	g711Alaw64k	on	===>	<a href="#">Modify</a>
8	1	g711Alaw64k	on	===>	<a href="#">Modify</a>

Delete Add

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

Save  
Log off  
Help  
Reboot System  
Apply Changes

Now configure the per port information

In the **QSLAC Codec Configuration** section

- Select [Modify](#) for QSL ID 1

Host Name Vega50WISC  
IP Address 136.170.209.75  
User Name admin

Unsaved & Unapplied Changes

**Management**  
Logging  
Maintenance  
LAN  
POTS  
Dial Plan  
Media Channels  
Tones  
SIP  
Users  
QoS  
Advanced

**POTS > QSLAC 1**

**Modify QSL**

QSL ID 1  
Enabled   
Layer 1 g711Alaw64k  
Caller ID on  
NT

Submit

**Groups in this QSL**

Group ID	User Name	User Number	Authentication User Name	Authentication User Number	Password	Interface	Reg Enable	Cost	DN	Ring Index	Chg?
1	port1	01	port1	01	user1	06	1	1	06	2	<a href="#">Modify</a>

Delete Add

Save  
Log off  
Help  
Reboot System  
Apply Changes

Visit the VegaStream website Internet

- Enable (tick) NT, then
- select **Submit** and then click "[here](#)" to return
- Repeat enabling NT for QSLID 2 to QSLID 8

## 10. Configure pointer to CD ROM documentation

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

Host Name Vega50WISC  
IP Address 136.170.209.75  
User Name admin

Unsaved & Unapplied Changes

Management  
Logging  
Maintenance  
LAN  
POTS  
Dial Plan  
Media Channels  
Tones  
SIP  
Users  
QoS  
Advanced

Physical Layer Configuration

Full Duplex   
Ethernet Type 10baseT & 100baseTX  
QoS profile 1

Submit

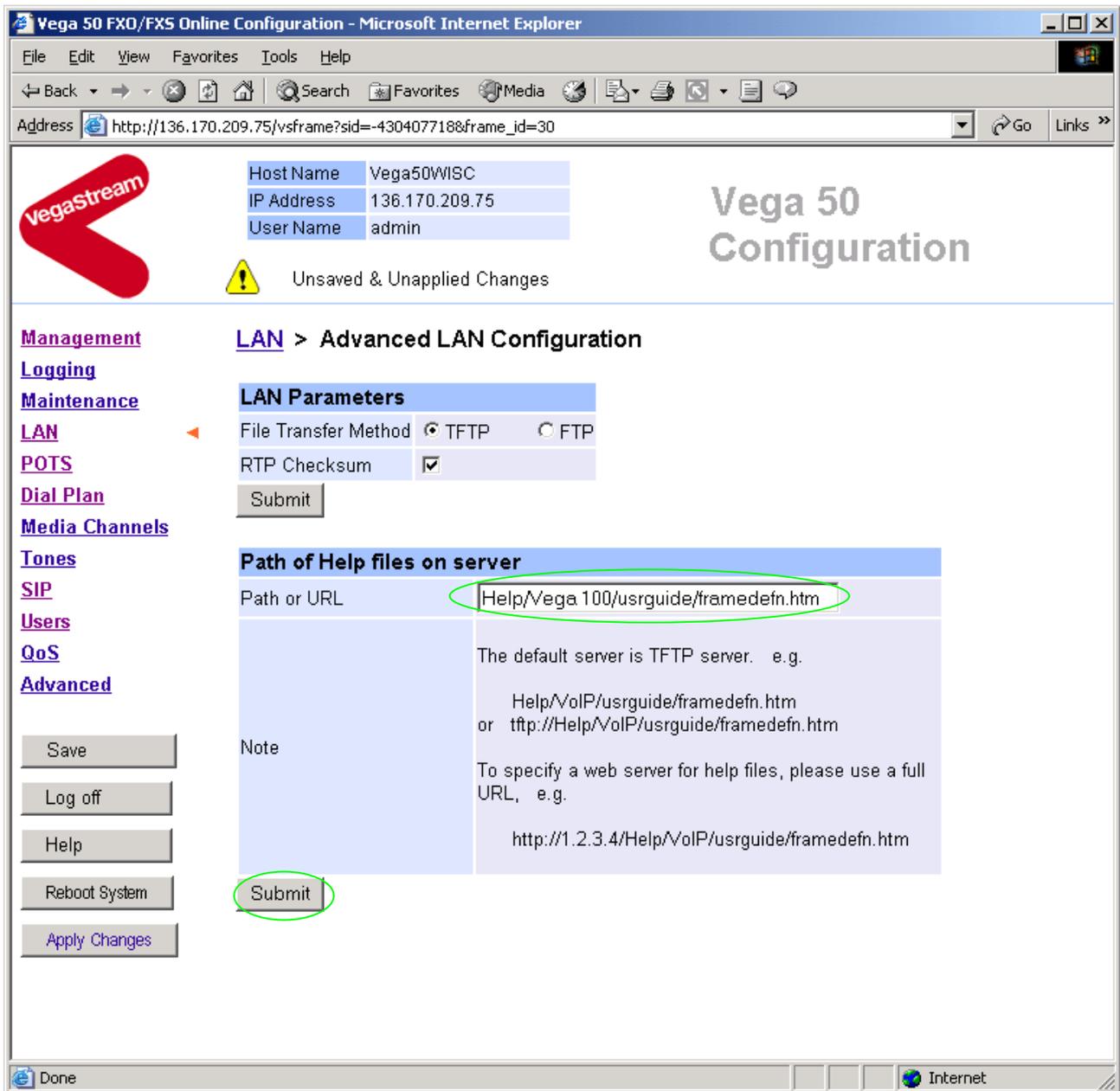
ID	Name	IP	Chg?
1	PHONE_06	0.0.0.0	<a href="#">Modify</a>
2	PHONE_07	0.0.0.0	<a href="#">Modify</a>
3	PHONE_08	0.0.0.0	<a href="#">Modify</a>
4	PHONE_09	0.0.0.0	<a href="#">Modify</a>
5	PHONE_10	0.0.0.0	<a href="#">Modify</a>
6	PHONE_11	0.0.0.0	<a href="#">Modify</a>
7	PHONE_12	0.0.0.0	<a href="#">Modify</a>
8	PHONE_13	0.0.0.0	<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/v50fxss\_R5.htm
- ... N.B. use forward slashes "/" not back slashes "\".

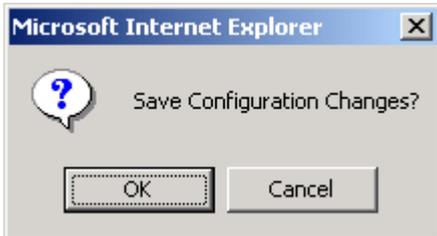
(Substitute appropriate drive letter if D: is not the CD-ROM)

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

## 11. Save Changes

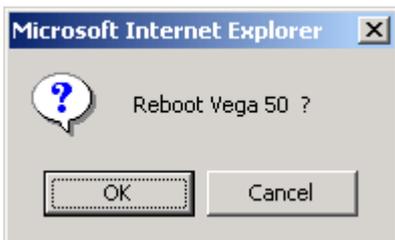
The changes to the configuration must be saved and activated. This is carried out as follows:

- 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.

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



The screenshot shows a web interface section titled "CLI Command". Below the title is a text input field and a "Submit" button.

- 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>

## 13. Technical Support

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

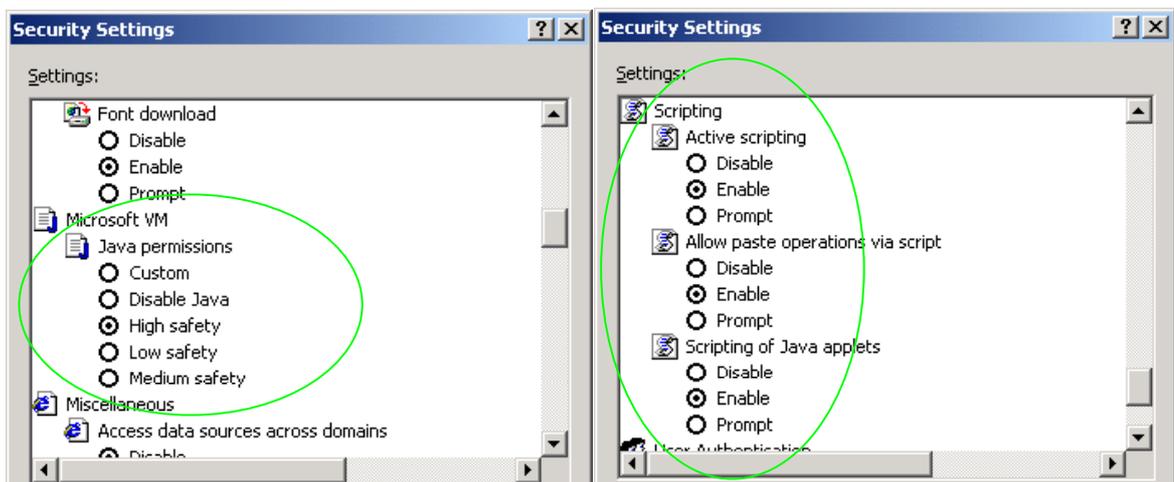
If you require help from VegaStream support personnel, please use the serial interface or telnet into the unit, log in and then type:

- 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  
Email: [support@vegastream.com](mailto:support@vegastream.com)  
Web: [www.vegastream.com](http://www.vegastream.com)  
[www.vegaassist.com](http://www.vegaassist.com)

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