

# Initial configuration

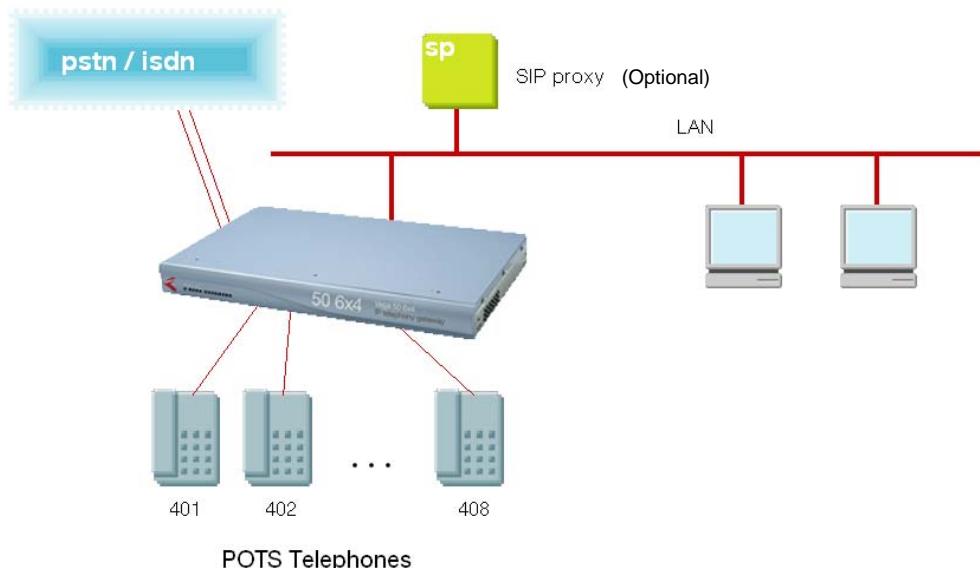
## Vega 50 6x4 FXS (SIP) – R8.0



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.

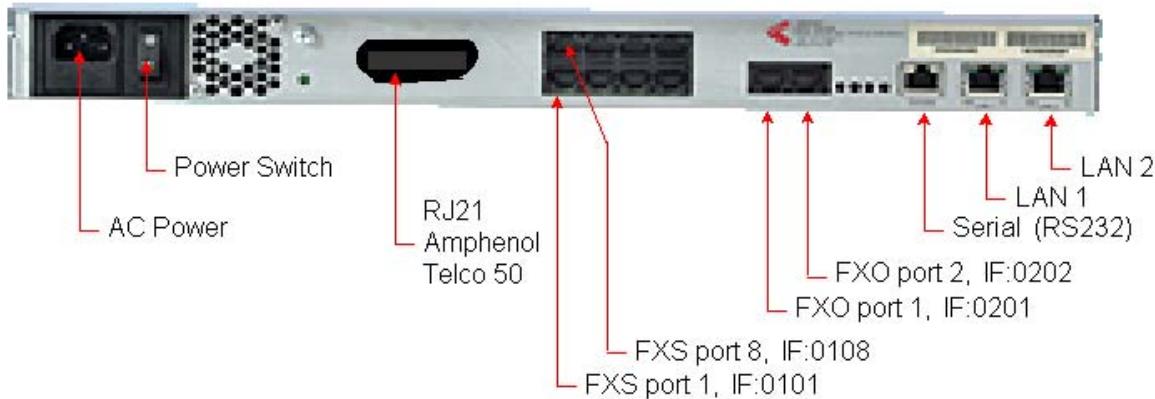
The configuration process is broken down into 12 stages as follows:

- 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 Proxy 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.



If both LAN interfaces, LAN 1 and LAN 2 are to be used, the interfaces must be on separate subnets.

**WARNING!**

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

FXO 1 IF: 0201	FXO 2 IF: 0202
-------------------	-------------------

Telephone lines can be connected to the two FXO ports.

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



**WARNING!**

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 [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 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: 08.00 for hardware type 11  
Image: VEGA-6x4_R080S005  
  
Partition 2: H.323 Firmware  
Version: 08.00 for hardware type 11  
Image: VEGA-6x4_R080H005
```

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 Vega<sup>1</sup>.
  - 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
```

---

<sup>1</sup> If the partition is changed, after the reboot perform a 'factory reset' before continuing configuration.

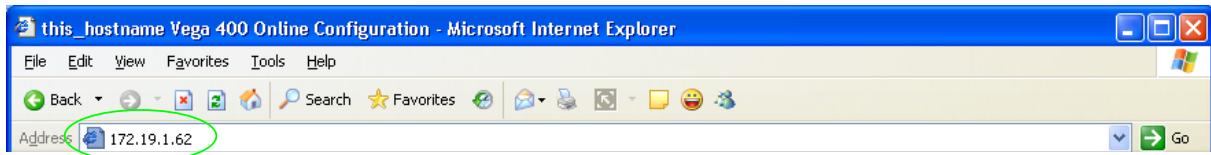
If this is not the IP address required, it can be overridden, together with other LAN parameters by typing:

```
➤ 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 lan.gateway.dhcp_if=0
➤ set sip.lan_profile=1
➤ save
➤ reboot system
```

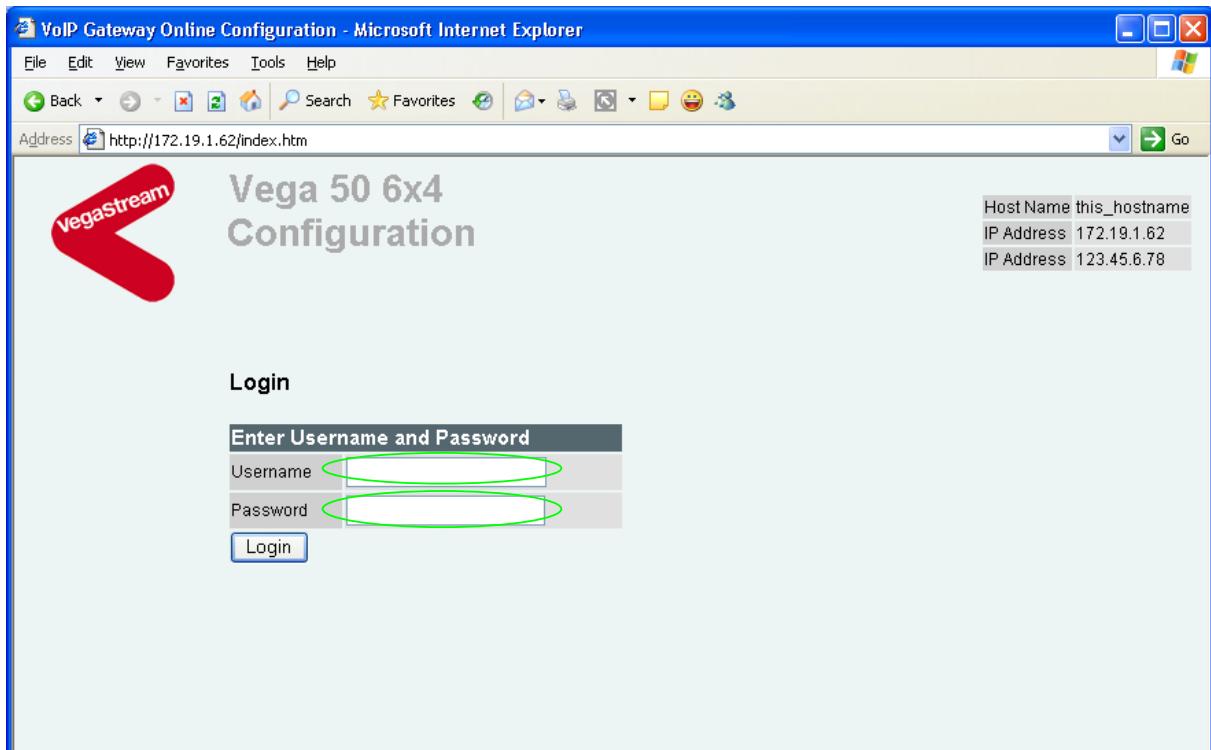
### 3. Configure password and login timeout

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

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.

### Change Active Partition

- Partition 1 SIP Version 08.00 for hardware type 11  
VEGA-6x4\_R080S005a Aug 7 2006 09:23:31
- Partition 2 H323 Version 08.00 for hardware type 11  
VEGA-6x4\_R080H005 Aug 10 2006 09:04:28

[Continue ...](#)

- 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 complete<sup>2</sup>.

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

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<sup>2</sup> If the partition is changed, after the reboot perform a ‘factory reset’ before continuing configuration.

**Vega 50 6x4 Configuration**

Host Name: this\_hostname  
IP Address: 172.19.1.62  
IP Address: 123.45.6.78  
User Name: admin

**Management**

- Logging
- Maintenance
- LAN
- POTS
- Dial Plan
- Media
- Tones
- SIP
- Users**
- QoS Statistics
- Supp.Services
- Advanced

**System Management**

Tip: Place the cursor of the mouse on name or input fields to get concise help.

**System Time**

|                           |    |   |    |   |      |                                                                                                            |
|---------------------------|----|---|----|---|------|------------------------------------------------------------------------------------------------------------|
| Set Time (hh:mm:ss)       | 17 | : | 28 | : | 43   | <input type="button" value="Set Time"/>                                                                    |
| Set Date (dd/mm/yyyy)     | 14 | / | 08 | / | 2006 | <input type="button" value="Set Date"/>                                                                    |
| Synchronise Time and Date |    |   |    |   |      | <input type="button" value="Set Time from PC"/><br><input type="button" value="Set Time from NTP Server"/> |

**Call Reports**

|                                        |                            |
|----------------------------------------|----------------------------|
| Report call progress summary           | <a href="#">Show Calls</a> |
| Report on all call progress statistics | <a href="#">Show Trace</a> |

**System Logs**

|                      |                                  |
|----------------------|----------------------------------|
| Show the Event Log   | <a href="#">Show Event Log</a>   |
| Show the Billing Log | <a href="#">Show Billing Log</a> |

**Call Control**

Save    Log off    Reboot System

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

**Vega 50 6x4 Configuration**

**Administrator**

|               |        |
|---------------|--------|
| Logging       | 3      |
| Billing       | 0      |
| Prompt        | %u%#p> |
| Remote Access | 1      |
| Timeout       | 240    |

**Administrator Password**

|                   |            |
|-------------------|------------|
| New Password      | [redacted] |
| Re-enter Password | [redacted] |

**Billing User**

|         |        |
|---------|--------|
| Logging | 0      |
| Billing | 1      |
| Prompt  | %u%#p> |

**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>3</sup> – default is 240 seconds;

this can be extend to 7200 seconds (2hrs)

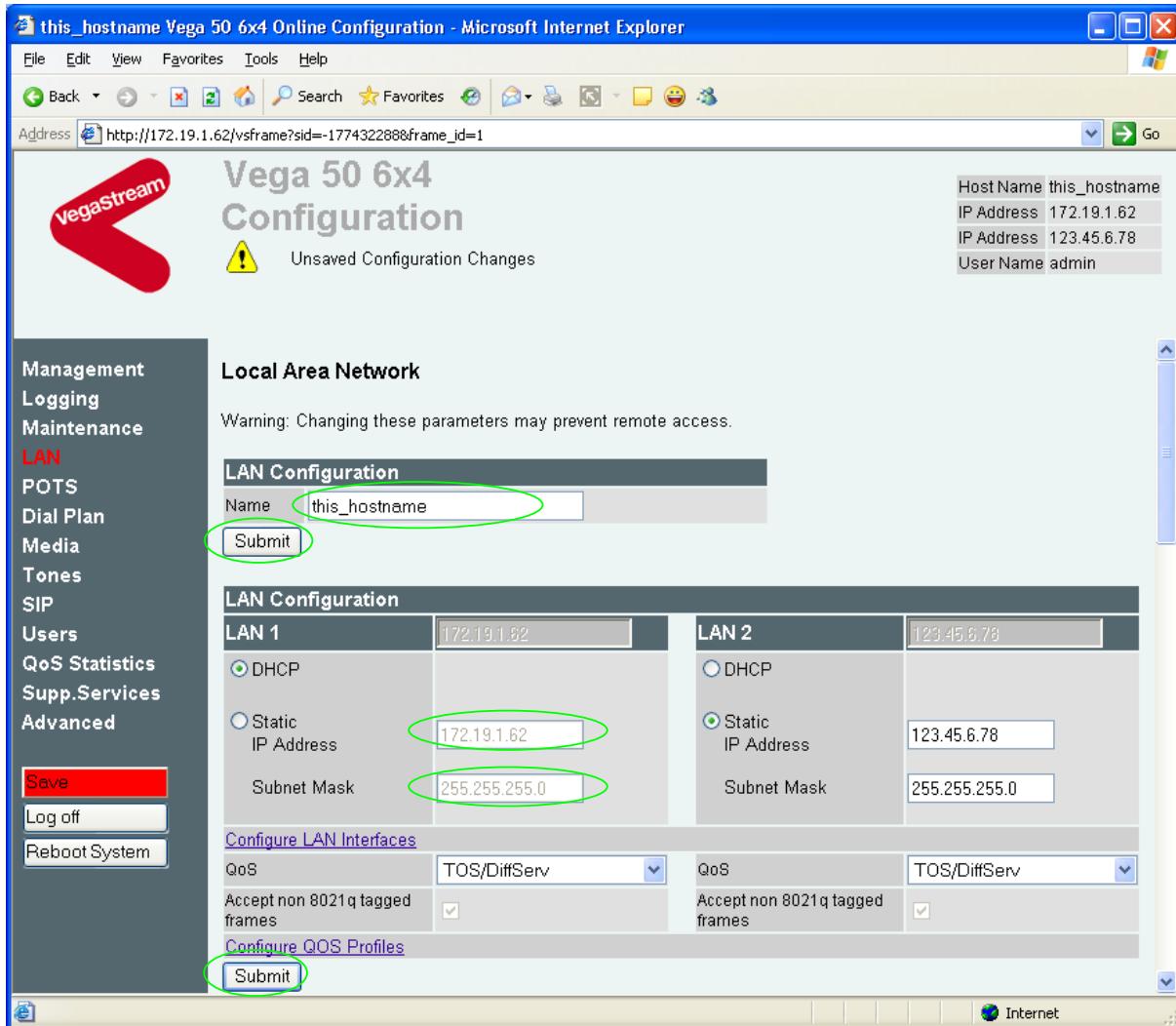
- select **Submit** and then click “[here](#)” to return

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<sup>3</sup> 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

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



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

- If the Vega has a DNS name associated with its IP address, in the **LAN Configuration** section:
  - set Name = <the DNS name of the Vega>
  - select [Submit](#) and then click "[here](#)" to return

In the **LAN Configuration, LAN 1** section

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.
- If changed select [Submit](#) and then click "[here](#)" to return

In the **LAN Configuration**, **LAN 1** section

- Select [Configure LAN Interfaces](#)

[LAN](#) > [LAN Interfaces](#)

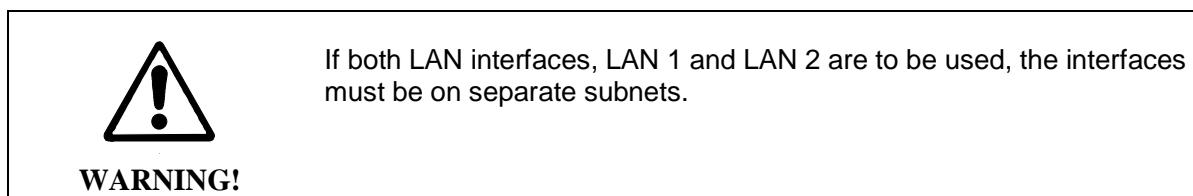
| LAN Configuration                     |                                     |
|---------------------------------------|-------------------------------------|
| LAN 1                                 | 172.19.1.51                         |
| Physical Layer                        |                                     |
| Enable Full Duplex                    | <input type="checkbox"/>            |
| Enable 10baseT                        | <input checked="" type="checkbox"/> |
| Enable 100baseTX                      | <input checked="" type="checkbox"/> |
| <input type="button" value="Submit"/> |                                     |

**Recommended:** In the **Physical Layer** section for **LAN 1**, leave ticked only 100baseTx or 10 baseT (not both) – whichever is appropriate

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

- select  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:

- On the left hand side menu select [LAN](#)
- Scroll down to the **Default LAN Gateway Address** section

**Default LAN Gateway Address**

|                                                                    |                                          |
|--------------------------------------------------------------------|------------------------------------------|
| <input checked="" type="radio"/> DHCP From server on LAN interface | <input type="text" value="172.19.1.10"/> |
|                                                                    | <input type="button" value="1-LAN1"/>    |
| <input type="radio"/> Static Address                               | <input type="text" value="172.19.1.10"/> |
| <input type="button" value="Submit"/>                              |                                          |

- If DHCP is selected, the interface ID pull down defines the LAN interface (and hence the DHCP server) to get the gateway's IP address from – leave it as 1-LAN1
- If a static IP address is required configure it here, either as a DNS name, or a dotted decimal IP address.
- If changed, select  and then click "[here](#)" to return

- Scroll down to the **Calls** section

**Calls**

LAN Profile: 1-LAN\_1

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 down to the **Ping, etc.** section

**Ping, etc.**

LAN Profile: 1-LAN\_1

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

Now scroll to the relevant sections on the page that need configuring:

#### DNS parameters

- Scroll to the **DNS Parameters** section and expand the box

**DNS Parameters**

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 |            | 192.168.30.201     |
| 2 |            | 0.0.0.0            |
| 3 |            | 0.0.0.0            |

Submit Add Delete

**Lan Hosts**

| ID | Name | IP |
|----|------|----|
|----|------|----|

Submit Add Delete

DNS server IP addresses can be set up using both DHCP served DNS servers and also statically defined DNS Servers.

- Ensure that 'Use DNS Server defined by DHCP on Lan Interface' = 1-LAN 1

➤ If it needs changing, select **Submit** and then click "[here](#)" to return

**Optional:** If static DNS servers are to be defined,

- configure their IP addresses in the Static DNS Servers section

(Press **Add** if more than 3 static entries are required)

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

The current list of DNS Server IPs to use can be found by clicking on the pull down tab on the greyed out DNS Server list combo box.

| DNS Parameters                                                                                                                                                                                                                                                                                                           |                    |            |                    |    |                |   |         |   |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|--------------------|----|----------------|---|---------|---|---------|
| <b>DNS</b><br>DNS Server List: 172.19.1.1 <b>Submit</b>                                                                                                                                                                                                                                                                  |                    |            |                    |    |                |   |         |   |         |
| Use DNS Server defined by<br>DHCP on Lan Interface: 172.19.1.1, 172.19.1.2, 192.168.30.201                                                                                                                                                                                                                               |                    |            |                    |    |                |   |         |   |         |
| <b>Static DNS Servers</b><br><table border="1"> <thead> <tr> <th>DNS Server</th> <th>Domain Name Server</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>192.168.30.201</td> </tr> <tr> <td>2</td> <td>0.0.0.0</td> </tr> <tr> <td>3</td> <td>0.0.0.0</td> </tr> </tbody> </table> <b>Submit</b> <b>Add</b> <b>Delete</b> |                    | DNS Server | Domain Name Server | 1  | 192.168.30.201 | 2 | 0.0.0.0 | 3 | 0.0.0.0 |
| DNS Server                                                                                                                                                                                                                                                                                                               | Domain Name Server |            |                    |    |                |   |         |   |         |
| 1                                                                                                                                                                                                                                                                                                                        | 192.168.30.201     |            |                    |    |                |   |         |   |         |
| 2                                                                                                                                                                                                                                                                                                                        | 0.0.0.0            |            |                    |    |                |   |         |   |         |
| 3                                                                                                                                                                                                                                                                                                                        | 0.0.0.0            |            |                    |    |                |   |         |   |         |
| <b>Lan Hosts</b><br><table border="1"> <thead> <tr> <th>ID</th> <th>Name</th> <th>IP</th> </tr> </thead> </table> <b>Submit</b> <b>Add</b> <b>Delete</b>                                                                                                                                                                 |                    | ID         | Name               | IP |                |   |         |   |         |
| ID                                                                                                                                                                                                                                                                                                                       | Name               | IP         |                    |    |                |   |         |   |         |

*(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.)*

Telnet, ssh, Web browser, https access parameters

- Scroll to the **Management Access** section and expand the box

| Management Access |                    |          |                                     |
|-------------------|--------------------|----------|-------------------------------------|
|                   | LAN Profile        | LAN Port | Enabled                             |
| Telnet            | 3-LAN_1&2          | 23       | <input checked="" type="checkbox"/> |
| SSH               | Same as telnet     | 22       | <input type="checkbox"/>            |
| Web Server        | 1-LAN_1            | 80       | <input checked="" type="checkbox"/> |
| HTTPS             | Same as Web server | 443      | <input type="checkbox"/>            |
| <b>Submit</b>     |                    |          |                                     |

- Set Telnet LAN Profile = 1-LAN\_1

- Set Web Server LAN Profile = 1-LAN\_1

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

## FTP and TFTP parameters

- Scroll to the **FTP/TFTP Parameters** section and expand the box

FTP / TFTP

Default File Transfer Method  FTP  TFTP

Submit

FTP Parameters

FTP Server IP Address 0.0.0.0

Static Address 0.0.0.0

LAN Profile 1-LAN\_1

Configure FTP

Submit

TFTP Parameters

TFTP Server IP Address 172.19.1.53

DHCP From server on LAN interface 1-LAN 1

Static Address 172.19.1.53

LAN Profile 1-LAN\_1

Configure TFTP

Submit

- Select the preferred (default) method for performing file transfers – typically use TFTP if you are on the same site as the Vega, or use FTP if you are of a different site
- Select **Submit** and then click “[here](#)” to return

## To configure FTP:

FTP Parameters

FTP Server IP Address 0.0.0.0

Static Address 0.0.0.0

LAN Profile 1-LAN\_1

Configure FTP

Submit

- set up Static IP Address (*either as a DNS name or as a dotted decimal IP address*)
- select **Submit** and then click “[here](#)” to return

- Select [Configure\\_FTP](#)

[LAN](#) > [FTP Parameters](#)

| FTP Parameters                                   |                                     |
|--------------------------------------------------|-------------------------------------|
| Login                                            |                                     |
| <input checked="" type="radio"/> Anonymous Login |                                     |
| <input type="radio"/> Username Login             |                                     |
| FTP Username                                     | whatever                            |
| Password                                         | *****                               |
| FTP Ping Test                                    | <input checked="" type="checkbox"/> |
| FTP Timeout                                      | 20                                  |
| FTP port                                         | 21                                  |
| Abort Socket Before Closing                      | <input type="checkbox"/>            |
| <a href="#">Submit</a>                           |                                     |

**Optional:** If username login (rather than anonymous login) is required

- select 'Username Login'
- enter FTP username
- enter Password
- select [Submit](#) and then click "[here](#)" to return

To configure TFTP:

| TFTP Parameters                                                    |             |
|--------------------------------------------------------------------|-------------|
| TFTP Server IP Address                                             | 172.19.1.53 |
| <input checked="" type="radio"/> DHCP From server on LAN interface | 1-LAN 1     |
| <input type="radio"/> Static Address                               | 172.19.1.53 |
| LAN Profile                                                        | 1-LAN_1     |
| <a href="#">Configure TFTP</a>                                     |             |
| <a href="#">Submit</a>                                             |             |

**Optional:** If a static IP address is required

- select 'Static Address'
- set up Static 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

## NTP parameters

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

- Scroll to the **NTP Parameters** section and expand the box

NTP Parameters

|                                        |         |
|----------------------------------------|---------|
| NTP Server IP Address                  | 0.0.0.0 |
| DHCP From DHCP server on LAN interface | 1-LAN 1 |
| Static Address                         | 0.0.0.0 |
| LAN Profile                            | 1-LAN_1 |
| Configure NTP                          |         |
| Submit                                 |         |

**Optional:** If a static IP address is required

- select 'Static Address'
- set up Static 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

- Select [Configure\\_NTP](#)

[LAN](#) > NTP Parameters

NTP Parameters

|               |      |
|---------------|------|
| NTP Port      | 123  |
| Poll Interval | 0    |
| Local Offset  | 0000 |
| Submit        |      |

**Optional:** to set Vega to update its clock once per 24 hours and to have a time zone offset of -1hr

- set Poll interval = 2400  
(format is HHMM)
- set Local Offset = -0100  
(format is -HHMM or HHMM ... time difference from UTC)
- select **Submit** and then click "[here](#)" 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 [14.3 “Configure Emergency numbers to route to the two FXO interfaces”](#), and [14.4 “Configure local numbers to route to the two FXO interfaces”](#).

*Configure the dial plans for FXS interfaces*

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

The screenshot shows the 'Vega 50 6x4 Configuration' interface in Microsoft Internet Explorer. The left sidebar has a 'Management' section with 'Dial Plan' highlighted in red. Below it are 'Logging', 'Maintenance', 'LAN', 'POTS', 'Media', 'Tones', 'SIP', and 'Users'. Under 'Advanced', there are 'QoS Statistics', 'Supp. Services', and 'Save' (in red), 'Log off', and 'Reboot System' buttons.

The main content area is titled 'Dial Planner'. It contains two tables:

| Del?                                | Profile ID | Enabled | Name            | Plans | Chg?                   |
|-------------------------------------|------------|---------|-----------------|-------|------------------------|
| <input type="checkbox"/>            | 1          | 1       | FXS_to_SIP      | ==>   | <a href="#">Modify</a> |
| <input checked="" type="checkbox"/> | 2          | 0       | SIP_to_FXS_0101 | ==>   | <a href="#">Modify</a> |
| <input type="checkbox"/>            | 3          | 1       | FXO_to_SIP      | ==>   | <a href="#">Modify</a> |
| <input type="checkbox"/>            | 4          | 0       | SIP_to_FXO_0201 | ==>   | <a href="#">Modify</a> |

Below the first table are 'Delete' and 'Add' buttons. The second table is for 'Planner Groups':

| Del?                     | ID | Name    | Cause | Active times | Priority | Chg?                   |
|--------------------------|----|---------|-------|--------------|----------|------------------------|
| <input type="checkbox"/> | 1  | default | 0     | 0000-2359    | 0        | <a href="#">Modify</a> |

Below the second table are 'Delete' and 'Add' buttons.

At the bottom, there are sections for 'Call Presentation Groups Configuration' (with 'Call Presentation Groups' and 'Whitelists' and 'Post Profiles' buttons) and 'Internet' status information.

In the **Profiles** section:

- Tick the Del? Tick box against Profile ID 2,3,4
- Select **Delete**



➤ Select

### Dial Planner

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

In the **Profiles** section, Profile ID 1

➤ Select [Modify](#)

### Dial Planner > Profile 1

| Modify Profile                        |   |         |                                     |      |                                         |  |  |
|---------------------------------------|---|---------|-------------------------------------|------|-----------------------------------------|--|--|
| Profile ID                            | 1 | Enabled | <input checked="" type="checkbox"/> | Name | <input type="text" value="FXS_to_SIP"/> |  |  |
| <input type="button" value="Submit"/> |   |         |                                     |      |                                         |  |  |

| Plans in this Profile                                                    |         |            |                   |                 |      |       |                        |
|--------------------------------------------------------------------------|---------|------------|-------------------|-----------------|------|-------|------------------------|
| Del?                                                                     | Plan ID | Name       | Srce              | Dest            | Cost | Group | Chg?                   |
| <input type="checkbox"/>                                                 | 1       | FXS_to_SIP | IF:01...,TEL:<.*> | IF:9901,TEL:<1> | 0    | 0     | <a href="#">Modify</a> |
| <input type="button" value="Delete"/> <input type="button" value="Add"/> |         |            |                   |                 |      |       |                        |

- Set Name = FXS\_to\_Proxy
- select  and then click "[here](#)" to return

### Dial Planner > Profile 1

| Modify Profile                        |   |         |                                     |      |                                           |  |  |
|---------------------------------------|---|---------|-------------------------------------|------|-------------------------------------------|--|--|
| Profile ID                            | 1 | Enabled | <input checked="" type="checkbox"/> | Name | <input type="text" value="FXS_to_Proxy"/> |  |  |
| <input type="button" value="Submit"/> |   |         |                                     |      |                                           |  |  |

| Plans in this Profile                                                    |         |            |                   |                 |      |       |                        |
|--------------------------------------------------------------------------|---------|------------|-------------------|-----------------|------|-------|------------------------|
| Del?                                                                     | Plan ID | Name       | Srce              | Dest            | Cost | Group | Chg?                   |
| <input type="checkbox"/>                                                 | 1       | FXS_to_SIP | IF:01...,TEL:<.*> | IF:9901,TEL:<1> | 0    | 0     | <a href="#">Modify</a> |
| <input type="button" value="Delete"/> <input type="button" value="Add"/> |         |            |                   |                 |      |       |                        |

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

➤ Select [Modify](#)

this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Address http://172.19.1.62/vsframe?sid=-1742906376&frame\_id=35

Vega 50 6x4 Configuration

**VegaStream**

! Unsaved & Unapplied Changes

Host Name this\_hostname  
IP Address 172.19.1.62  
IP Address 123.45.6.78  
User Name admin

Management  
Logging  
Maintenance  
LAN  
POTS  
**Dial Plan**  
Media  
Tones  
SIP  
Users  
QoS Statistics  
Supp.Services  
Advanced

[Dial Planner > Profile 1 > Plan 1](#)

**Modify Plan**

|             |                   |
|-------------|-------------------|
| Plan ID     | 1                 |
| Profile ID  | 1                 |
| Name        | FXS_to_SIP        |
| Source      | "IF:01..TEL:<.*>" |
| Destination | "IF:9901,TEL:<1>" |
| Cost Index  | 0                 |
| Group       | 0 - no group      |

**Apply**

[Regular Expression Help](#)  
[Token Help](#)

Done Internet

- 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 interfaces and stores the telephone number dialled in store <1>)

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

this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home Mail Find Go Address http://172.19.1.62/vsframe?sid=-1742906376&frame\_id=35

Vega 50 6x4 Configuration

⚠️ Unsaved Configuration Changes

Host Name this\_hostname  
IP Address 172.19.1.62  
IP Address 123.45.6.78  
User Name admin

Management  
Logging  
Maintenance  
LAN  
POTS  
**Dial Plan**  
Media  
Tones  
SIP  
Users  
QoS Statistics  
Supp.Services  
Advanced

[Dial Planner > Profile 1 > Plan 1](#)

**Modify Plan**

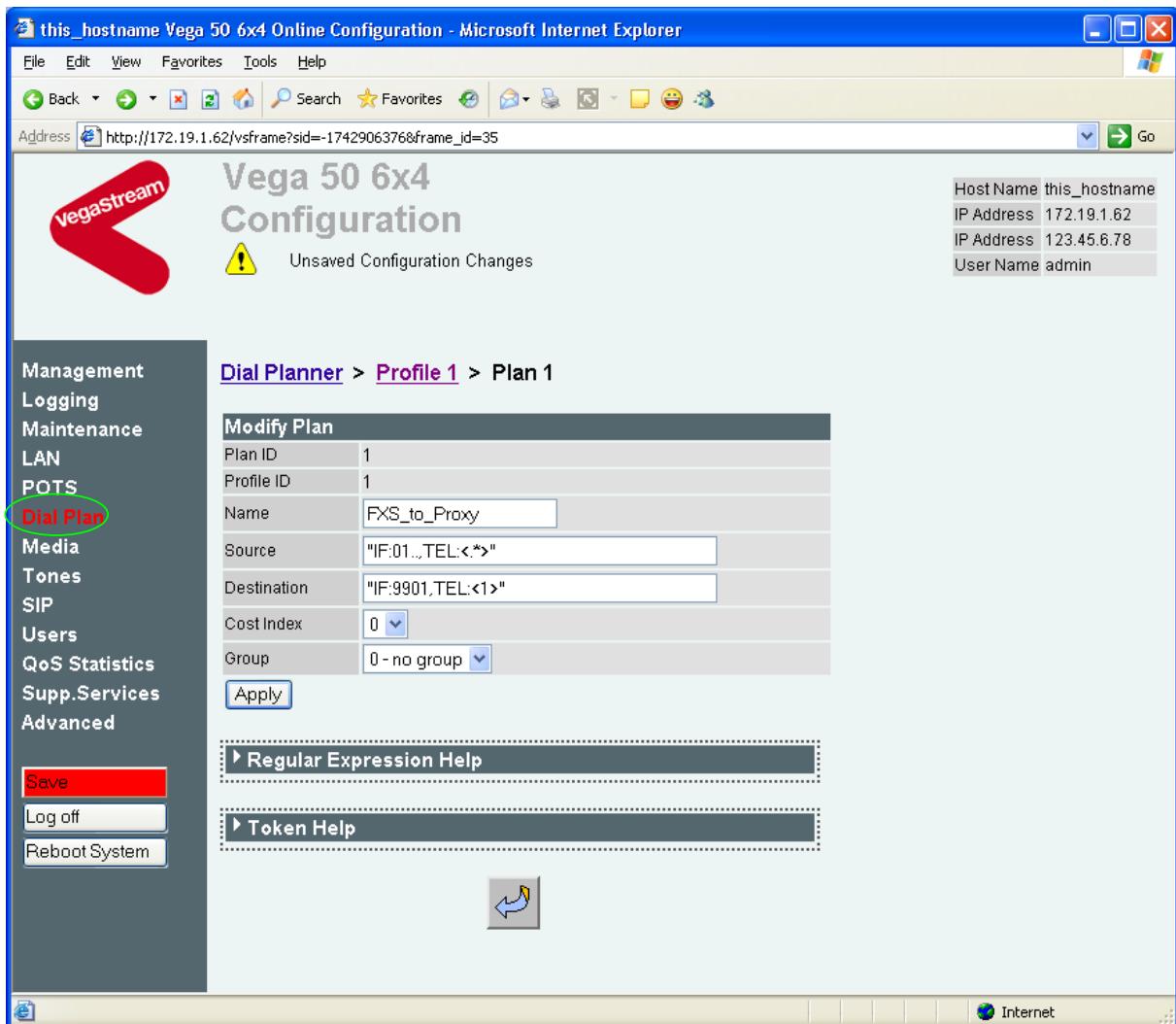
|             |                   |
|-------------|-------------------|
| Plan ID     | 1                 |
| Profile ID  | 1                 |
| Name        | FXS_to_Proxy      |
| Source      | "IF:01..TEL:<*>"  |
| Destination | "IF:9901,TEL:<1>" |
| Cost Index  | 0                 |
| Group       | 0 - no group      |

Apply

▶ Regular Expression Help

▶ Token Help

Save Log off Reboot System



- 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<..>
- set Destination = IF:01<1>

*(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>)*

*(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 Proxy parameters

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

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

The screenshot shows the 'Vega 50 6x4 Configuration' interface in Microsoft Internet Explorer. The left sidebar contains navigation links: Management, Logging, Maintenance, LAN, POTS, Dial Plan, Media, Tones, **SIP**, Users, QoS Statistics, Supp. Services, and Advanced. A red 'Save' button is highlighted. The main content area is titled 'SIP Configuration'. It includes sections for 'General' (Local SIP Port set to 5060, 'Accept Non-Proxy Invites' checkbox is checked and circled in green), 'SIP Profiles' (a table with one row: SIP Profile 'profile1', Name '9901', Interface ID '9901', Other SIP Profile Parameters '====>', and Chg? 'Modify' circled in green), 'Media' (Capability Set '2 - voice+t38Udp', 'Submit' button), and 'Registration' (Show SIP Registration 'Show Registration', Enable Registration checked, 'Submit' button). A status bar at the bottom right shows 'Internet'.

**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

In the **SIP Profiles** section

- Select [Modify](#)

The screenshot shows the Vega 50 6x4 Online Configuration interface in Microsoft Internet Explorer. The title bar reads "this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer". The address bar shows the URL "http://172.19.1.62/vsframe?sid=-1838182211&frame\_id=52". The main content area displays the "Vega 50 6x4 Configuration" page. On the left, a sidebar menu includes options like Management, Logging, Maintenance, LAN, POTS, Dial Plan, Media, Tones, **SIP**, Users, QoS Statistics, Supp.Services, and Advanced. Below the menu are buttons for Save (red), Log off, and Reboot System. The central part of the page shows the "SIP > SIP Profile 1" configuration. A warning message "Unsaved Configuration Changes" is visible. The "SIP Profile 1 Configuration 1" section contains fields for Name (profile1), Interface ID (9901), Local Domain (abcde...whatever.com), Alternative Local Domain (abcde...whatever.com), From Header 'userinfo' (Calling Party), From Header 'host' (Local Domain), and To Header 'host' (Local Domain). A "Submit" button is at the bottom. Below this is the "SIP Profile 1 Proxy Parameters 1" section with fields for Request-URI Port (5060), Minimum Valid SIP Response (180), Proxy Mode (radio buttons for normal, cyclic, and dnssrv selected), and Timeout (ms) (5000). A "Done" button is at the bottom of the configuration area.

In the **SIP Profile 1 Configuration 1** section:

- set Name=MyProxy
- 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)
- scroll down to the **SIP Profile 1 Proxy Parameters 1** section

**SIP Profile 1 Proxy Parameters 1**

| Request-URI Port                                                                                                                                                                                                                                                                                                                                              | 5060                                                                                              |             |        |                        |      |      |   |   |       |      |                        |                                              |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------|--------|------------------------|------|------|---|---|-------|------|------------------------|----------------------------------------------|--|--|--|--|
| Minimum Valid SIP Response                                                                                                                                                                                                                                                                                                                                    | 180                                                                                               |             |        |                        |      |      |   |   |       |      |                        |                                              |  |  |  |  |
| Proxy Mode                                                                                                                                                                                                                                                                                                                                                    | <input checked="" type="radio"/> normal <input type="radio"/> cyclic <input type="radio"/> dnssrv |             |        |                        |      |      |   |   |       |      |                        |                                              |  |  |  |  |
| Timeout (ms)                                                                                                                                                                                                                                                                                                                                                  | 5000                                                                                              |             |        |                        |      |      |   |   |       |      |                        |                                              |  |  |  |  |
| <input type="button" value="Submit"/>                                                                                                                                                                                                                                                                                                                         |                                                                                                   |             |        |                        |      |      |   |   |       |      |                        |                                              |  |  |  |  |
| <table border="1"> <thead> <tr> <th>SIP Proxy</th> <th>Enable</th> <th>IP/DNS Name</th> <th>Port</th> <th>Chq?</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0</td> <td>0.0.0</td> <td>5060</td> <td><a href="#">Modify</a></td> </tr> <tr> <td colspan="2"><a href="#">Add</a>   <a href="#">Delete</a></td> <td colspan="3"></td> </tr> </tbody> </table> |                                                                                                   | SIP Proxy   | Enable | IP/DNS Name            | Port | Chq? | 1 | 0 | 0.0.0 | 5060 | <a href="#">Modify</a> | <a href="#">Add</a>   <a href="#">Delete</a> |  |  |  |  |
| SIP Proxy                                                                                                                                                                                                                                                                                                                                                     | Enable                                                                                            | IP/DNS Name | Port   | Chq?                   |      |      |   |   |       |      |                        |                                              |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                 | 0.0.0       | 5060   | <a href="#">Modify</a> |      |      |   |   |       |      |                        |                                              |  |  |  |  |
| <a href="#">Add</a>   <a href="#">Delete</a>                                                                                                                                                                                                                                                                                                                  |                                                                                                   |             |        |                        |      |      |   |   |       |      |                        |                                              |  |  |  |  |

➤ Select [Modify](#)

[SIP](#) > [SIP Profile 1](#) > [Proxy 1](#)

**SIP Proxy 1**

|                                       |                          |
|---------------------------------------|--------------------------|
| Enable                                | <input type="checkbox"/> |
| IP/DNS Name                           | 0.0.0.0                  |
| Port                                  | 5060                     |
| <input type="button" value="Submit"/> |                          |

In the **SIP Proxy 1** section:

- Tick Enable
- 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.

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

| Capability Set | Name         | Capability Indices | Chg?                   |
|----------------|--------------|--------------------|------------------------|
| 1              | voice        | 6,2,3              | <a href="#">Modify</a> |
| 2              | voice+t38Udp | 6,2,3,5,8,4        | <a href="#">Modify</a> |
| 3              | g711faxmodem | 8,4                | <a href="#">Modify</a> |

| Capability | Codec       | Codec Profile | Chg?                   |
|------------|-------------|---------------|------------------------|
| 1          | g7231       | 1             | <a href="#">Modify</a> |
| 2          | g711Alaw64k | 1             | <a href="#">Modify</a> |
| 3          | g711Ulaw64k | 1             | <a href="#">Modify</a> |
| 4          | g711Ulaw64k | 2             | <a href="#">Modify</a> |
| 5          | t38udp      | 1             | <a href="#">Modify</a> |
| 6          | g729        | 1             | <a href="#">Modify</a> |
| 7          | g729AnnexA  | 1             | <a href="#">Modify</a> |
| 8          | g711Alaw64k | 2             | <a href="#">Modify</a> |
| 9          | octet       | 1             | <a href="#">Modify</a> |

*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 | 6,2,3,5,8,4  |
| <b>Submit</b>      |              |

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 [SIP](#)

**this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back     Search  Favorites      Go

Address  Go

**Vega 50 6x4 Configuration**

**SIP Configuration**

**General**

|                          |                          |
|--------------------------|--------------------------|
| Local SIP Port           | 5060                     |
| Accept Non-Proxy Invites | <input type="checkbox"/> |
| <b>Submit</b>            |                          |

**SIP Profiles**

| SIP Profile | Name     | Interface ID | Other SIP Profile Parameters | Chg?                   |
|-------------|----------|--------------|------------------------------|------------------------|
| 1           | profile1 | 9901         | ====>                        | <a href="#">Modify</a> |

**Add** **Delete**

**Media**

|                  |                  |
|------------------|------------------|
| Capability Set   | 2 - voice+t38Udp |
| <b>Submit</b>    |                  |
| 1 - voice        |                  |
| 2 - voice+t38Udp |                  |
| 3 - g711faxmodem |                  |

**Registration**

|                       |                                     |
|-----------------------|-------------------------------------|
| Show SIP Registration | <a href="#">Show Registration</a>   |
| Enable Registration   | <input checked="" type="checkbox"/> |
| <b>Submit</b>         |                                     |

In the **Media** section

- Check that Capability Set = 2 (if capability set 2 contains the preferred list, or select the capability set required)
- select  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.

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 **SIP**
- Scroll down to the **SIP Authentication Configuration** section

This screenshot shows the configuration interface for a Vega 50 6x4 device. The left sidebar lists various configuration categories. The 'SIP' category is selected, and its sub-section 'SIP Authentication' is highlighted with a green oval. The main content area shows configuration options for SIP Signalling Transport (set to udp), Reliable Provisional Responses (set to off), DTMF Transport (set to rfc2833), DTMF INFO (set to mode1), and RFC2833 payload (set to 96). On the right, there are summary fields for Host Name, IP Address (172.19.1.62 and 123.45.6.78), and User Name (admin).

- Select **SIP Authentication**

this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Home Go Address http://172.19.1.62/vsframe?sid=-1838182211&frame\_id=52

Vega 50 6x4 Configuration

**VegaStream**

! Unsaved Configuration Changes

Host Name this\_hostname  
IP Address 172.19.1.62  
IP Address 123.45.6.78  
User Name admin

Management Logging Maintenance LAN POTS Dial Plan Media Tones **SIP** Users QoS Statistics Supp.Services Advanced

**SIP > Authentication**

**SIP Authentication Users**

| Del?                     | User | Enable | SIP Profile  | Username | Password | Source  | Chg?                   |
|--------------------------|------|--------|--------------|----------|----------|---------|------------------------|
| <input type="checkbox"/> | 1    | 0      | 1 - profile1 | 01       | user01   | IF:0101 | <a href="#">Modify</a> |
| <input type="checkbox"/> | 2    | 0      | 1 - profile1 | 02       | user02   | IF:0102 | <a href="#">Modify</a> |
| <input type="checkbox"/> | 3    | 0      | 1 - profile1 | 03       | user03   | IF:0103 | <a href="#">Modify</a> |
| <input type="checkbox"/> | 4    | 0      | 1 - profile1 | 04       | user04   | IF:0104 | <a href="#">Modify</a> |
| <input type="checkbox"/> | 5    | 0      | 1 - profile1 | 05       | user05   | IF:0201 | <a href="#">Modify</a> |
| <input type="checkbox"/> | 6    | 0      | 1 - profile1 | 06       | user06   | IF:0202 | <a href="#">Modify</a> |

Add Delete

Save Log off Reboot System

Done Internet

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.

In the **SIP Authentication Users** section, against the desired User

- Select [Modify](#)
- e.g. for User 1

Modify SIP Authentication User

SIP Authentication User 1

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Enable                                | <input checked="" type="checkbox"/> |
| Sip Profile                           | 1 - profile1                        |
| Username                              | 01                                  |
| Password                              | user01                              |
| Subscriber                            | IF:0101                             |
| <input type="button" value="Submit"/> |                                     |

- Tick Enable
- Set Username = User\_401
- Set Password = Pass\_401
- Check Subscriber = IF:0101
- select  and then click "[here](#)" to return

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

| User    | Enable | Username | Password | Subscriber |
|---------|--------|----------|----------|------------|
| user 2  | ✓      | User_402 | Pass_401 | IF:0102    |
| user 3  | ✓      | User_403 | Pass_403 | IF:0103    |
| ... etc |        |          |          |            |

(If authentication is required for calls from the FXO ports, remember that the FXO ports' 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 Proxy parameters’
- Dn ... configured in registration section
- Host\_Name\_or\_IP\_address\_of\_Vega ... set up by DHCP or in section 4 ‘Check and configure LAN settings and Host name’

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](#)

**SIP Configuration**

**General**

|                          |                          |
|--------------------------|--------------------------|
| Local SIP Port           | 5060                     |
| Accept Non-Proxy Invites | <input type="checkbox"/> |

**SIP Profiles**

| SIP Profile | Name     | Interface ID | Other SIP Profile Parameters | Chg?                   |
|-------------|----------|--------------|------------------------------|------------------------|
| 1           | profile1 | 9901         | ==>                          | <a href="#">Modify</a> |

**Media**

|                |                  |
|----------------|------------------|
| Capability Set | 2 - voice+t38Udp |
|----------------|------------------|

**Registration**

|                       |                                     |
|-----------------------|-------------------------------------|
| Show SIP Registration | <a href="#">Show Registration</a>   |
| Enable Registration   | <input checked="" type="checkbox"/> |

- In the **SIP Profiles** section
- Select [Modify](#)
- Scroll down to the bottom to the **SIP Profile 1 Registration Parameters 1** section

| SIP Profile 1 Registration Parameters 1    |                                                                      |             |      |                        |
|--------------------------------------------|----------------------------------------------------------------------|-------------|------|------------------------|
| Registration Request-URI Port              | 5060                                                                 |             |      |                        |
| Registration Expiry Time (ms)              | 600                                                                  |             |      |                        |
| Max Number of Registrars                   | 3                                                                    |             |      |                        |
| Minimum Valid SIP Response                 | 200                                                                  |             |      |                        |
| Registration Mode                          | <input checked="" type="radio"/> normal <input type="radio"/> dnssrv |             |      |                        |
| Timeout (ms)                               | 5000                                                                 |             |      |                        |
| <input type="button" value="Submit"/>      |                                                                      |             |      |                        |
| SIP Registrar                              | Enable                                                               | IP/DNS Name | Port | Chg?                   |
| 1                                          | 0                                                                    | 0.0.0.0     | 5060 | <a href="#">Modify</a> |
| <a href="#">Add</a> <a href="#">Delete</a> |                                                                      |             |      |                        |

➤ Select [Modify](#)

### SIP > SIP Profile 1 > Registrar 1

| SIP Registrar 1                       |                          |
|---------------------------------------|--------------------------|
| Enable                                | <input type="checkbox"/> |
| IP/DNS Name                           | 0.0.0.0                  |
| Port                                  | 5060                     |
| <input type="button" value="Submit"/> |                          |

- Tick Enable
- Set IP/DNS Name = *IP\_or\_DNS\_name\_of\_SIP\_registrar\_or\_machine\_proxying\_for\_theRegistrar*

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

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

this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back  Search  Favorites  Go

Address: http://172.19.1.64/vsframe?sid=2047599660&frame\_id=52

**Vega 50 6x4 Configuration**

**vegastream**

**! Unsaved & Unapplied Changes**

|            |               |
|------------|---------------|
| Host Name  | this_hostname |
| IP Address | 172.19.1.64   |
| IP Address | 0.0.0.0       |
| User Name  | admin         |

**Management**

**Logging**

**Maintenance**

**LAN**

**POTS**

**Dial Plan**

**Media**

**Tones**

**SIP**

**Users**

**QoS Statistics**

**Supp.Services**

**Advanced**

**Apply Changes**

**Save**

**Log off**

**Reboot System**

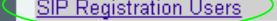
**Registration**

Show SIP Registration [Show Registration](#)

Enable Registration

**Submit**

**SIP Registration Users Configuration**

**SIP Registration Users** 

**SIP Authentication Configuration**

[SIP Authentication](#)

**SIP Session Timers Configuration**

[SIP Session Timers](#)

**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<br><input type="radio"/> rfc2833 and rx info <input type="radio"/> off |
| DTMF INFO                      | <input checked="" type="radio"/> mode1 <input type="radio"/> mode2                                                                                                                   |

In the **SIP Registration Users Configuration** section

- Select [SIP Registration Users](#)

## SIP > Registration

| SIP Registration Users   |      |        |              |       |              |                           |
|--------------------------|------|--------|--------------|-------|--------------|---------------------------|
| Del?                     | User | Enable | Sip Profile  | Dn    | Username     | Authentication User Index |
|                          |      |        |              |       |              | Chg?                      |
| <input type="checkbox"/> | 1    | 0      | 1 - profile1 | 01 01 | 1 - User_401 | <a href="#">Modify</a>    |
| <input type="checkbox"/> | 2    | 0      | 1 - profile1 | 02 02 | 2 - User_402 | <a href="#">Modify</a>    |
| <input type="checkbox"/> | 3    | 0      | 1 - profile1 | 03 03 | 3 - User_403 | <a href="#">Modify</a>    |
| <input type="checkbox"/> | 4    | 0      | 1 - profile1 | 04 04 | 4 - User_404 | <a href="#">Modify</a>    |
| <input type="checkbox"/> | 5    | 0      | 1 - profile1 | 05 05 | 5 - 05       | <a href="#">Modify</a>    |
| <input type="checkbox"/> | 6    | 0      | 1 - profile1 | 06 06 | 6 - 06       | <a href="#">Modify</a>    |

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

*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, user 2 for the second, etc.*

For User 1

➤ Select [Modify](#)

| User | Enable | SIP Profile  | Username | Password | Source  |
|------|--------|--------------|----------|----------|---------|
| 1    | 1      | 1 - profile1 | User_401 | Pass_401 | IF:0101 |
| 2    | 1      | 1 - profile1 | User_402 | Pass_402 | IF:0102 |
| 3    | 1      | 1 - profile1 | User_403 | Pass_403 | IF:0103 |
| 4    | 1      | 1 - profile1 | User_404 | Pass_404 | IF:0104 |
| 5    | 0      | 1 - profile1 | 05       | user05   | IF:0201 |
| 6    | 0      | 1 - profile1 | 06       | user06   | IF:0202 |

In the **Modify SIP Registration User** section, under **SIP Registration User 1**

- Tick **Enable**
- Ensure that the correct Sip Profile is selected
- Set **Dn = 401**

*The value of Dn configures the 'contact information in the SIP Registration message'*

- Set **Username = 1344784401**

*The value of Username configures the 'public address' information in the SIP Registration message*

*If Authentication will be needed for Registration*

- Check **Authentication User Index = 1-User\_401**
- Select **Submit** and then click "[here](#)" to return

**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

Enter

- `set _advanced.sip.invite.registered=1`
- Select  and then close the CLI command window

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

| User    | Dn  | Enable | Username   | Authentication User Index |
|---------|-----|--------|------------|---------------------------|
| user 2  | 402 | ✓      | 1344784402 | 2 - User_402              |
| user 3  | 403 | ✓      | 1344784403 | 3 - User_403              |
| ... etc |     |        |            |                           |

## 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 FXO 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*

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

The screenshot shows the 'POTS Configuration' interface. At the top, there's a header bar with tabs for 'Port Configuration', 'POTS Interface Profiles', and 'Advanced POTS Configuration'. Below the header, the 'Port Configuration' section is visible, displaying a table of port settings. A green circle highlights the 'Modify' link for Port ID 1. The table data is as follows:

| Port ID | Enabled | FXS | Caller ID | Call Waiting | Layer 1       | Tx Gain | Hardware profile | Interfaces             | Chq? |
|---------|---------|-----|-----------|--------------|---------------|---------|------------------|------------------------|------|
| 1       | 1       | 1   | off       | on           | g711Alaw64k 0 | 1       | ====>            | <a href="#">Modify</a> |      |
| 2       | 1       | 1   | off       | on           | g711Alaw64k 0 | 1       | ====>            | <a href="#">Modify</a> |      |
| 3       | 1       | 1   | off       | on           | g711Alaw64k 0 | 1       | ====>            | <a href="#">Modify</a> |      |
| 4       | 1       | 1   | off       | on           | g711Alaw64k 0 | 1       | ====>            | <a href="#">Modify</a> |      |
| 5       | 1       | 0   | off       | off          | g711Alaw64k 0 | 1       | ====>            | <a href="#">Modify</a> |      |
| 6       | 1       | 0   | off       | off          | g711Alaw64k 0 | 1       | ====>            | <a href="#">Modify</a> |      |

In the **Port Configuration** section, for Port ID 1

- Select [Modify](#)

## POTS > Port 1

| Modify Port      |                                     |
|------------------|-------------------------------------|
| Port ID          | 1                                   |
| Enable           | <input checked="" type="checkbox"/> |
| Layer1           | g711Alaw64k                         |
| Caller ID        | off                                 |
| Call Waiting     | on                                  |
| FXS              | 1                                   |
| TX Gain          | 0                                   |
| Hardware Profile | 1                                   |

### Interface Configuration

| Port Index | Interface Profile | Interface ID | DN   | Ring Index | Username | Usernumber | Chg?                   |
|------------|-------------------|--------------|------|------------|----------|------------|------------------------|
| 1          | 1                 | 0101         | 0101 | 2          | port1    | 01         | <a href="#">Modify</a> |

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    |

### 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 the Caller ID in dn
- Set the textual part of the Caller ID in Username

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

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

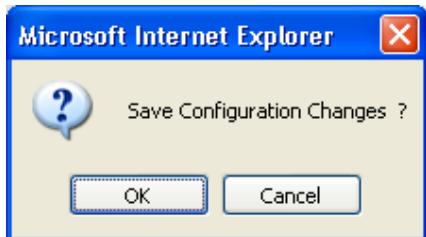
Repeat for all other FXS ports.

*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

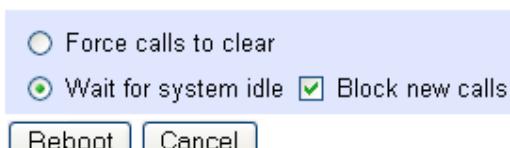
The changes to the configuration must be saved and activated. This is carried out as follows:

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



- Select [OK](#) and after the configuration has been saved click "[here](#)" to return
- On the left hand side menu select [Reboot System](#)

### Reboot



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

**CLI Command**

- 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”)

## 13. Technical Support

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

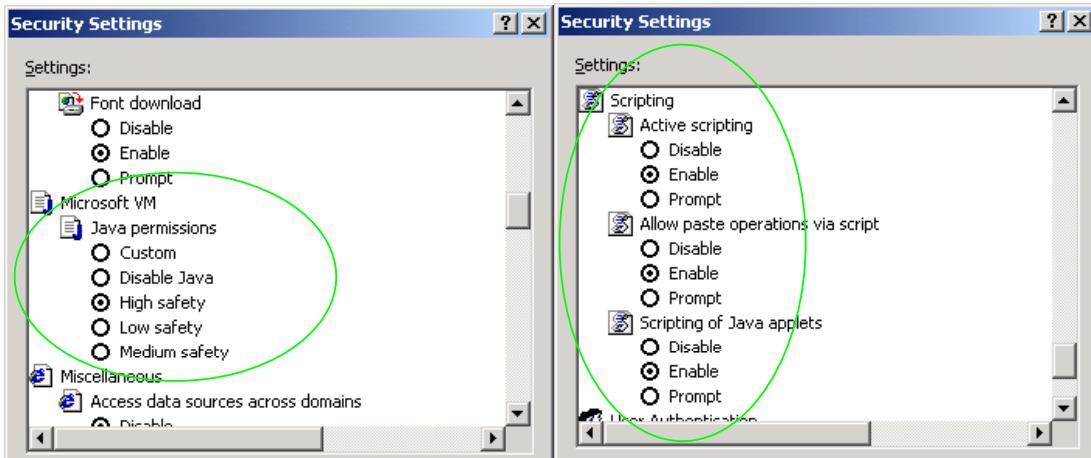
If you require help from VegaStream support personnel, please use the serial interface or telnet into the unit, log in and then type:

- 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  button – entries must be made to one section at a time, and those entries confirmed by the  button before the next section is altered. Each  button only confirms entries for its own section. Any changes in other sections will be discarded when the  is pressed.
3. 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 them 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 interfaces**

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

- Route 999 and 112 to FXO interface 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](#)

**this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back  Search  Favorites  Go

Address  Go

**Vega 50 6x4 Configuration**

**vegastream**

**Unsaved & Unapplied Changes**

|            |               |
|------------|---------------|
| Host Name  | this_hostname |
| IP Address | 172.19.1.64   |
| IP Address | 0.0.0.0       |
| User Name  | admin         |

**Management**

**Logging**

**Maintenance**

**LAN**

**POTS**

**Dial Plan**

**Media plann**

**Tones**

**SIP**

**Users**

**QoS Statistics**

**Supp.Services**

**Advanced**

**Apply Changes**

**Save**

**Log off**

**Reboot System**

**Dial Planner**

**Profiles**

| Del?                     | Profile ID | Enabled | Name         | Plans | Chg?                   |
|--------------------------|------------|---------|--------------|-------|------------------------|
| <input type="checkbox"/> | 1          | 1       | FXS_to_Proxy | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/> | 2          | 1       | Proxy_to_FXS | ====> | <a href="#">Modify</a> |

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

**Planner Groups**

| Del?                     | ID | Name    | Cause | Active times | Priority | Chg?                   |
|--------------------------|----|---------|-------|--------------|----------|------------------------|
| <input type="checkbox"/> | 1  | default | 0     | 0000-2359    | 0        | <a href="#">Modify</a> |

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

**Call Presentation Groups Configuration**

[Call Presentation Groups](#)

**Whitelists**

**Post Profiles**

http://172.19.1.64/vsframe?sid=-228275971&frame\_id=35

In the **Planner Groups** section

- Select [Add](#)

**Planner Groups**

| Del?                     | ID | Name    | Cause | Active times | Priority | Chg?                   |
|--------------------------|----|---------|-------|--------------|----------|------------------------|
| <input type="checkbox"/> | 1  | default | 0     | 0000-2359    | 0        | <a href="#">Modify</a> |
| <input type="checkbox"/> | 2  | default | 0     | 0000-2359    | 0        | <a href="#">Modify</a> |

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

In the **Planner Groups** section, Planner Group ID 2

- Select [Modify](#)

**Dial Planner > Planner Group 2**

| Modify Group  |                                        |
|---------------|----------------------------------------|
| Group ID      | 2                                      |
| Name          | <input type="text" value="default"/>   |
| Cause         | <input type="text" value="0"/>         |
| Active Times  | <input type="text" value="0000-2359"/> |
| Priority      | <input type="checkbox"/>               |
| <b>Submit</b> |                                        |

In the **Modify Group** section

- Set Name = Emergency\_Priority
  - Tick the Priority tick box
  - select **Submit** and then click "[here](#)" to return
  - On the left hand side menu select **Dial Plan**

this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Home Address http://172.19.1.64/vsframe?sid=-228275971&frame\_id=35 Go

# Vega 50 6x4 Configuration

**vegastream**

! Unsaved & Unapplied Changes

**Management**  
**Logging**  
**Maintenance**  
**LAN**  
**POTS**  
**Dial Plan**  
**Media** dial planners  
**Tones**  
**SIP**  
**Users**  
**QoS Statistics**  
**Supp.Services**  
**Advanced**

**Apply Changes**  
**Save**  
**Log off**  
**Reboot System**

| Host Name                                     | this_hostname       |                    |              |              |                        |                        |
|-----------------------------------------------|---------------------|--------------------|--------------|--------------|------------------------|------------------------|
| IP Address                                    | 172.19.1.64         |                    |              |              |                        |                        |
| IP Address                                    | 0.0.0.0             |                    |              |              |                        |                        |
| User Name                                     | admin               |                    |              |              |                        |                        |
| <b>Profiles</b>                               |                     |                    |              |              |                        |                        |
| Del?                                          | Profile ID          | Enabled            | Name         | Plans        | Chg?                   |                        |
| <input type="checkbox"/>                      | 1                   | 1                  | FXS_to_Proxy | ==>          | <a href="#">Modify</a> |                        |
| <input type="checkbox"/>                      | 2                   | 1                  | Proxy_to_FXS | ==>          | <a href="#">Modify</a> |                        |
| <a href="#">Delete</a>                        | <a href="#">Add</a> |                    |              |              |                        |                        |
| <b>Planner Groups</b>                         |                     |                    |              |              |                        |                        |
| Del?                                          | ID                  | Name               | Cause        | Active times | Priority               | Chg?                   |
| <input type="checkbox"/>                      | 1                   | default            | 0            | 0000-2359    | 0                      | <a href="#">Modify</a> |
| <input type="checkbox"/>                      | 2                   | Emergency_Priority | 0            | 0000-2359    | 1                      | <a href="#">Modify</a> |
| <a href="#">Delete</a>                        | <a href="#">Add</a> |                    |              |              |                        |                        |
| <b>Call Presentation Groups Configuration</b> |                     |                    |              |              |                        |                        |
| <a href="#">Call Presentation Groups</a>      |                     |                    |              |              |                        |                        |
| ► Whitelists                                  |                     |                    |              |              |                        |                        |
| ► Post Profiles                               |                     |                    |              |              |                        |                        |

http://172.19.1.64/vsframe?sid=-228275971&frame\_id=35

Internet

In the **Profiles** section

- Select **Add**

**Dial Planner**

| Profiles                 |            |         |              |       |                        |
|--------------------------|------------|---------|--------------|-------|------------------------|
| Del?                     | Profile ID | Enabled | Name         | Plans | Chg?                   |
| <input type="checkbox"/> | 1          | 1       | FXS_to_Proxy | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/> | 2          | 1       | Proxy_to_FXS | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/> | 3          | 1       | new_profile  | ====> | <a href="#">Modify</a> |

**Delete** **Add**

In the **Profiles** section, Profile ID 3

- Select [Modify](#)

**Dial Planner > Profile 3**

**Modify Profile**

|            |                                          |
|------------|------------------------------------------|
| Profile ID | 3                                        |
| Enabled    | <input checked="" type="checkbox"/>      |
| Name       | <input type="text" value="new_profile"/> |

**Submit**

**Plans in this Profile**

| Del?                     | Plan ID | Name     | Srce          | 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 **Modify Profile** section

- Set Name = FXS\_Emergency\_Calls
- select **Submit** and then click "[here](#)" to return

In the **Plans in this Profile** section

- Select [Modify](#)

**Dial Planner > Profile 3 > Plan 1**

**Modify Plan**

|             |                                                                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Plan ID     | 1                                                                                                                                                  |
| Profile ID  | 3                                                                                                                                                  |
| Name        | <input type="text" value="new_plan"/>                                                                                                              |
| Source      | <input tel:&lt;...&gt;&lt;.*&gt;\""="" type="text" value="\"/>                                                                                     |
| Destination | <input if:&lt;1&gt;,tel:&lt;2&gt;\""="" type="text" value="\"/>                                                                                    |
| Cost Index  | <input type="text" value="0"/>                                                                                                                     |
| Group       | <input type="button" value="0 - no group"/>                                                                                                        |
| Apply       | <input type="button" value="0 - no group"/><br><input type="button" value="1 - default"/><br><input type="button" value="2 - Emergency_Priority"/> |

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
- 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                    | <input checked="" type="checkbox"/> |          |                   |                 |      |       |                        |
| Name                       | FXS_Emergency_Calls                 |          |                   |                 |      |       |                        |
| <b>Submit</b>              |                                     |          |                   |                 |      |       |                        |
| Plans in this Profile      |                                     |          |                   |                 |      |       |                        |
| Del?                       | Plan ID                             | Name     | Srce              | Dest            | Cost | Group | Chg?                   |
| <input type="checkbox"/>   | 1                                   | 999_Call | IF:01..,TEL:<999> | IF:0202,TEL:<1> | 1    | 2     | <a href="#">Modify</a> |
| <input type="checkbox"/>   | 2                                   | 112_Call | IF:01..,TEL:<112> | IF:0202,TEL:<1> | 1    | 2     | <a href="#">Modify</a> |
| <b>Delete</b>   <b>Add</b> |                                     |          |                   |                 |      |       |                        |

Remember to Save the changes.

## 14.4 Configure local numbers to route to the two FXO interfaces

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

- Route calls prefixed by 1344 to FXO interface 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](#)

this\_hostname Vega 50 6x4 Online Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go Address http://172.19.1.64/vsframe?sid=-228275971&frame\_id=35

**Vega 50 6x4 Configuration**

**Management**  
**Logging**  
**Maintenance**  
**LAN**  
**POTS**  
**Dial Plan**  
**Media**  
**Tones**  
**SIP**  
**Users**  
**QoS Statistics**  
**Supp.Services**  
**Advanced**

**Dial Planner**

**Profiles**

| Del?                     | Profile ID | Enabled | Name                | Plans | Chg?                   |
|--------------------------|------------|---------|---------------------|-------|------------------------|
| <input type="checkbox"/> | 1          | 1       | FXS_to_Proxy        | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/> | 2          | 1       | Proxy_to_FXS        | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/> | 3          | 1       | FXS_Emergency_Calls | ====> | <a href="#">Modify</a> |

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

**Planner Groups**

| Del?                     | ID | Name               | Cause | Active times | Priority | Chg?                   |
|--------------------------|----|--------------------|-------|--------------|----------|------------------------|
| <input type="checkbox"/> | 1  | default            | 0     | 0000-2359    | 0        | <a href="#">Modify</a> |
| <input type="checkbox"/> | 2  | Emergency_Priority | 0     | 0000-2359    | 1        | <a href="#">Modify</a> |

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

**Call Presentation Groups Configuration**

**Call Presentation Groups**

**Whitelists**

**Post Profiles**

Save Log off Reboot System

In the **Call Presentation Groups Configuration** section

- Select [Call Presentation Groups](#)

**Call Presentation Groups**

| Del?                     | Call Presentation Group | Name    | Enable | Interface | Destinations                                                   | Other CPG Parameters | Chg?                   |
|--------------------------|-------------------------|---------|--------|-----------|----------------------------------------------------------------|----------------------|------------------------|
| <input type="checkbox"/> | 1                       | default | 0      | 1001      | F:0101  F:0102  F:0103  F:0104  F:0105  F:0106  F:0107  F:0108 | ====>                | <a href="#">Modify</a> |

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

In the **Call Presentation Groups** section

- Select [Modify](#)

**Call Presentation Group Configuration**

| Call Presentation Group 1             |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Name                                  | default                                                         |
| Enable                                | <input type="checkbox"/>                                        |
| Interface                             | 1001                                                            |
| Sequence Mode                         | round_robin                                                     |
| Destination Timeout                   | 180                                                             |
| Destination Timeout Action            | Try Next Destination                                            |
| Max Destination Attempts              | 8                                                               |
| Cause                                 | 17                                                              |
| Destinations                          | IF:0101  F:0102  F:0103  F:0104  F:0105  F:0106  F:0107  F:0108 |
| <input type="button" value="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
- Set Destinations = IF:0201|IF:0202
- select  and then click “[here](#)” to return

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

**Dial Planner**

| Profiles                                   |            |         |                     |       |                        |
|--------------------------------------------|------------|---------|---------------------|-------|------------------------|
| Del?                                       | Profile ID | Enabled | Name                | Plans | Chg?                   |
| <input type="checkbox"/>                   | 1          | 1       | FXS_to_Proxy        | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/>                   | 2          | 1       | Proxy_to_FXS        | ====> | <a href="#">Modify</a> |
| <input type="checkbox"/>                   | 3          | 1       | FXS_Emergency_Calls | ====> | <a href="#">Modify</a> |
| <a href="#">Delete</a> <a href="#">Add</a> |            |         |                     |       |                        |

In the **Profiles** section

- Select

In the **Profiles** section, Profile ID 4

- Select [Modify](#)
- Set Name = Local\_calls\_to\_FXO
- select  and then click “[here](#)” to return

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     |
| <input type="button" value="Apply"/> |                  |

In the **Modify Plan** section

- Set Name = 1344\_to\_local\_hunt
- Set Source = IF:01.,TEL:<1344.\*>
- Set Destination = IF:1001,TEL:<1>
- select  and then click “[here](#)” to return

Remember to Save the changes.

*Further details on Vega parameters and configuration may be found in the Vega Primer and other documents available on [www.VegaAssist.com](http://www.VegaAssist.com).*

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