



# Vega 50 Europa Quick Start Guide

Congratulations on your purchase of a Vega 50 Europa Voice Over IP gateway. This Quick Start Guide will assist you through the process of configuring your new gateway.

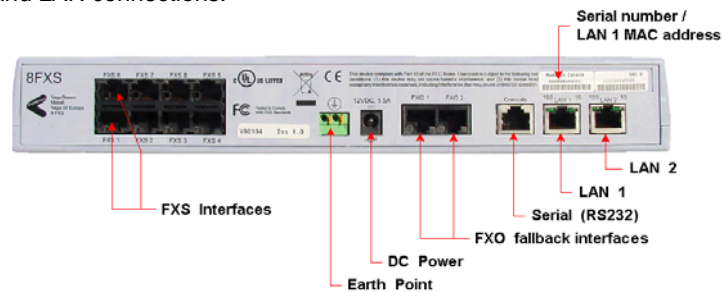
If you would like further details about the parameters you are configuring or you want to know more about the capabilities of your Vega 50 Europa please visit [www.VegaAssist.com](http://www.VegaAssist.com) and start by looking at the Quick SIP Config reference guide available in the Vega 50 Europa > Configuration section.

## 1. Before you start

We advise that before connecting and using your Vega 50 Europa for the first time, you visit the [www.VegaAssist.com](http://www.VegaAssist.com) website and read the 'Safety and Compliance Information' document which contains important details that you should be aware of.

## 2. Connecting your Vega 50 Europa

Connect your Vega 50 Europa using its telephony, Earth point, power and LAN connections.



The model of Vega 50 Europa that you have purchased determines the interfaces that you will see on the rear of your gateway.

The telephone interface layouts and their corresponding IDs are:

### Vega 50 Europa 8 FXS + 2 FXO:

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

FXO 1	FXO 2
IF: 0201	IF: 0202

### Vega 50 Europa 4 FXS + 2 FXO:

FXS 1	FXS 2	FXS 3	FXS 4
IF:0101	IF:0102	IF:0103	IF:0104

FXO 1	FXO 2
IF: 0201	IF: 0202

### Vega 50 Europa 8 FXO:

FXO 8	FXO 7	FXO 6	FXO 5
IF:0208	IF:0207	IF:0206	IF:0205
FXO 1	FXO 2	FXO 3	FXO 4
IF:0201	IF:0202	IF:0203	IF:0204

Not used	Not used
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### Vega 50 Europa 4 FXO:

FXO 1	FXO 2	FXO 3	FXO 4
IF:0201	IF:0202	IF:0203	IF:0204

Not used	Not used
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### Vega 50 Europa 4 BRI:

BRI 1	BRI 2	BRI 3	BRI 4
IF:0301	IF:0302	IF:0303	IF:0304

### Vega 50 Europa 2 BRI:

BRI 1	BRI 2
IF:0301	IF:0302

FXS interfaces are the ports into which you plug telephones. FXO interfaces are the ports that connect to the Public Telephone Network (PSTN) or a PBX extension interface. BRI interfaces can be configured to connect to the Public Telephone Network (ISDN), to a PBX or to Basic Rate ISDN handsets.



**WARNING!**

The Earth point on your Vega must be connected to a suitable earth. It serves a dual role as a safety Earth and it also stops noise on telephone lines in electrically noisy conditions.

LAN interfaces 1 and 2 may be connected to any 10, 100 or 10/100 Mbps hub, switch, router or ADSL modem.

**By Default Vega Europas have their LAN interfaces configured in bridging mode. LAN 1 is designed to be connected to an ADSL modem and LAN 2 to a hub, switch or router to which the rest of the data network is connected.**

## 3. Getting an IP address

The Vega 50 Europa uses DHCP to pick up an IP address. If it fails to get an IP address from the DHCP server, for example, because there is no DHCP server on the LAN, then the Vega will default to an IP address of 169.254.x.y where x and y are the decimal versions of the last two bytes of the LAN 1 MAC address. The LAN 1 MAC address can be found underneath the barcode on the rear of the Vega 50 Europa gateway.

A calculator that will calculate the 169.254.x.y address from the MAC address is available in the Vega Tools section of [www.VegaAssist.com](http://www.VegaAssist.com)

## 4. Logging into the Vega

Enter the IP address of your Vega 50 Europa into the address line of your web browser and press enter or select 'Go'.

The Vega will present you with a login screen:

**Login**

**Enter Username and Password**

Username

Password

Enter the username and password.

By default these are set to:

Username = admin  
Password = admin

## 5. Configuring your Vega

Select Quick Config. If a warning message appears informing you that there is already configuration applied, you can remove the existing settings and start from the beginning by selecting 'Continue' then ticking the 'New Install ?' option. This will ensure that any old, unwanted configuration is removed as you submit your new settings. Do not tick this option if you are simply amending existing configuration.



**WARNING!**

To exit Quick Config ALWAYS use either the Submit or Exit buttons adjacent to the Quick Config tabs. DO NOT use the navigation entries on the left hand menu, as using these may cause you to lose settings that you want to keep.

## a) Basic Config

Start by selecting the basic config tab.

If this is a new installation, ensure that the 'New Install ?' option is ticked.

Select the country and then choose which emergency numbers are appropriate for the location of the Vega.

Now select the LAN settings and then the codecs to use for VoIP calls.

## b) VoIP

Choose whether the Vega is going to route calls to a VoIP service provider or Proxy, or alternatively whether the Vega is going to route calls to up to 8 specified VoIP devices.

If the VoIP service provider / proxy option is chosen then specify the proxy and registrar details. These will be provided by your VoIP service provider / proxy administrator.

Depending on your preferred configuration, if registration is required, it may be configured as one registration per gateway, or as one registration per FXS port.

For Specified VoIP device mode, specify the IP address of the device and the list of phone numbers it supports.

All IP address entries may be provided as dotted decimal values (a.b.c.d) or as DNS names (e.g. SIP.VegaStream.com).

The list of telephone numbers is a comma or space separated list of telephone numbers to be routed to that destination. The telephone numbers may include regular expression characters to make them telephone number ranges rather than just single telephone numbers.

## Regular expressions

- .
  - [abc]
  - [a-d]
  - [^abc]
  - \*
  - +
  - ?
  - \
- Any single digit  
Range of digits 'a', 'b' and 'c'  
Range of digits 'a' thru 'd'  
Range of digits excluding 'a', 'b' and 'c'  
Previous character or regular expression repeated 0 or more times  
Previous character or regular expression repeated 1 or more times  
Previous character or regular expression repeated 0 or 1 times  
Turn off the regular expression meaning of the following character, e.g. \  
= DTMF \*

## c) FXS (applicable to 4 FXS and 8 FXS variants)

Enable and disable the interfaces as required and set up the telephone number(s) to route to each interface. If you have telephones attached, typically you will have a single number associated with each interface. If the interfaces are connected to the analogue trunk interfaces of a PBX then typically each interface will have a number range that needs to be routed to each interface.

## d) FXO (applicable to 4 FXS, 8 FXS, 4 FXO and 8 FXO variants)

Set up the telephone numbers to route to each FXO interface, using comma or space separated lists of telephone numbers and regular expressions if ranges are required.

When a call arrives on an FXO interface the Vega gets alerted to the fact by receiving a ringing voltage on its interface; the incoming call does not supply any dialled number information to the Vega. The Vega therefore needs to be configured with a telephone number to forward these incoming telephony calls to. In the 'Incoming Forward' field enter the telephone number that calls received on this telephone interface should be forwarded to.

If the Vega is powered down or is being upgraded, on FXS + 2 FXO gateways, the first two FXS interfaces fallback to a hardwired connection through to the two FXO interfaces. This allows calls to be made through the first two FXS interfaces (to these two FXO interfaces) even when the Vega is unable to actively process calls.

## e) BRI (applicable to 2 BRI and 4 BRI variants)

Start by configuring the Port Setting section. As these values relate to the physical interface connectivity, once you have set these values you should never have to return to reconfigure them.

Line type should be set to be the same as the line type setting on the device(s) that the Vega interface is connected to.

Select NT (Network) on each Vega interface that is connected to a PBX interface which is configured as TE (Terminal Equipment). Ensure NT is not ticked if the interface is connected to the ISDN network (which is NT) or is connected to an NT interface on the PBX.

If power to the line is required, select Phantom power. Note that Phantom power is only supplied on lines configured as NT.

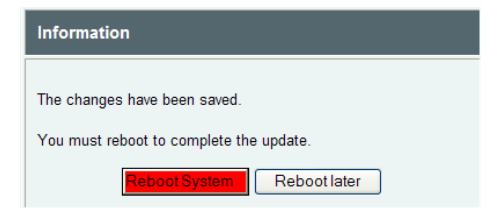
Now configure the 'Telephone Connections' details

## f) Saving your configuration

Press Submit to save, apply and activate the changes you have made using Quick Config. Pressing Submit will bring up a confirmation request. Select OK to continue and activate the changes or Cancel to take you back to the Quick Config pages.



Selecting Ok to the above question will activate most Quick Config settings. Some parameters, like the IP address of the Vega, will however require the Vega to be re-booted. If a reboot is required the Vega will ask whether this should occur immediately or whether you wish to do it manually later. If later is selected, the reboot button on the left hand side menu will be left RED to indicate that a reboot is still required to activate certain new parameters.



If you decide that you want to abandon the changes just made in Quick Config then select Exit. A confirmation request will be displayed, select OK to exit or cancel to return to the Quick Config pages.



## 6. Archive the configuration

Save the configuration in an archive, off the Vega, by selecting Expert Config > System, then in the Configuration section select the Download button and save the file config.txt.

## Help!

If you encounter problems, please refer to [www.VegaAssist.com](http://www.VegaAssist.com) or contact your Vega 50 Europa reseller directly.