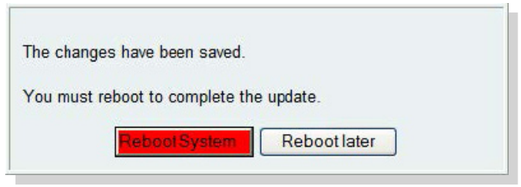
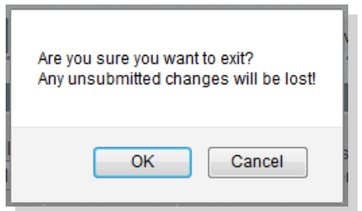
be re-booted. If a reboot is required the Vega will ask whether this should occur immediately or whether you wish to do it manually later. If later is selected, the reboot button on the left hand side menu will be left RED to indicate that a reboot is still required to activate certain new parameters.



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*.

Certifications

Safety
IEC 60950-1/A1:2009

Telecom	
FCC part 68	ACTA Registration Number: SANISNANVEGAX00G Ringer Equivalence Number (REN): NA Facility Interface Code (FIC): 04DU9.BN, 04DU9.DN, 04DU9.1KN, 04DU9.1SN Service Order Code (SOC): NA USOC Jack Type: RJ45
IC CS-03, Issue9, Part VI	IC Registration Number: 5668A-VEGAX00G
TBR4	European Standard
AS/ACIF S038	Australian Standard

EMC (Pending)	
Emissions:	EN 55022:2010 EN 55022:2006 inc A1:2007 & A2:2010 VCCI (V-3/2012.04), AS/NZS CISPR 22 SANS 222:2006 / CISPR 22:2006 FCC/CFR 47:Part 15 Canadian Standard ICES-003:Issue 5 EN 61000-3-2:2006 inc A1/A2:2009 EN 61000-3-3:2008
Immunity:	EN 55024:2010 SANS 224:1997 / CISPR 24:1997

Warranty

Standard 12-month warranty is included. Additional warranty services available, contact your Sales representative for more information.

How to Get Support

If you encounter problems, please visit wiki.sangoma.com or contact your authorized reseller directly.

Type	Description
1ST LINE SUPPORT	**Visit the online knowledge base at wiki.sangoma.com** Our knowledge base contains hundreds of step-by-step tutorials, guides and troubleshooting information to help you find what you're looking for and get back to work as quickly as possible.
2ND LINE SUPPORT	**Contact your Point-of-Purchase (Reseller/Distributor)**
3RD LINE SUPPORT	**Contact Sangoma Support at support.sangoma.com** Log onto our online support portal to submit your support requests directly with Sangoma customer Engineers, processed in a priority sequence.

End-User License Agreement

To view the End-User License Agreement visit:
http://www.sangoma.com/legal/

Vega

3000G

QUICK START GUIDE

VEGA3000G

SANGOMA

3000G
QUICK START GUIDE

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

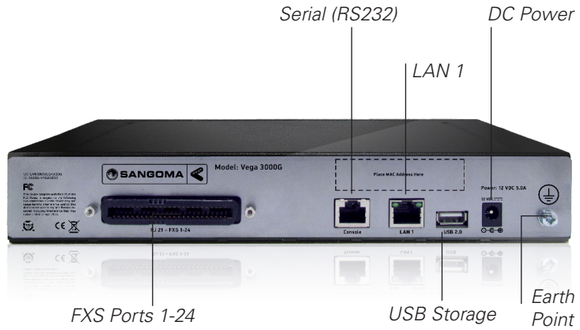
If you would like further details about the parameters you are configuring or you want to know more about the capabilities of your Vega, please visit wiki.sangoma.com and start by looking at the Quick SIP Config reference guide available in the Vega > Configuration section.

1. Before You Start

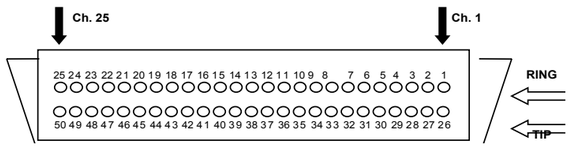
We advise that before connecting and using your Vega for the first time, you visit wiki.sangoma.com and read the 'Safety and Compliance Information' document which contains important details that you should be aware of.

2. Connecting Your Analog Vega

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



Vega 3000 24-port and 50-port - first24/25 ports:



FXS interface 1 (IF:0101) = pin 1 and pin 26
FXS interface 2 (IF:0102) = pin 2 and pin 27
...
FXS interface 25 (IF:0125) = pin 25 and pin 50
(if 25th port fitted)

⚠ 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 support 10, 100 or 1000 mbps connections and as default are configured to negotiate to the highest bitrate.

3. Getting an IP Address

Vega gateways use DHCP to pick up an IP address for its LAN interface; if the LAN interface 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 the IP address of the LAN interface to 169.254.x.y where x and y are the decimal versions of the last two bytes of the LAN MAC address. The MAC addresses for the LAN interface can be found on the rear of the Vega gateway near the ethernet ports.

A calculator that will calculate the 169.254.x.y address from the MAC address is available in the Vega Tools section of wiki.sangoma.com

4. Logging Into the Vega

Enter the IP address of your Vega gateway into the address line of your web browser and press enter or select 'Go'. The Vega will present you with a login screen:

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 choose which emergency numbers are appropriate for the location of the Vega. Then select the LAN settings and change the login password if required.

Note: If the LAN settings have previously been statically configured, ensure these settings are correctly reflected on the Basic Config page. Failure to do this may result in the IP address changing and the Vega becoming inaccessible over the LAN.

b) VoIP

REGISTRATION MODE:
Depending on the installation, if registration is required, it can be configured as one registration per gateway or as one registration per FXS port.

OUTBOUND PROXY:
Choose whether calls should be sent direct to the service provider or through an outbound proxy.

Note: The fields available to configure on the remainder of this tab are affected by the values chosen in the above two settings.

Configure the remaining settings, typically the values will be provided by your VoIP service provider or system administrator.

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

Configure the codec lineup for this installation in preference order.

c) FXS

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 analog trunk interfaces of a PBX then typically each interface will have a number range that needs to be routed to each interface.

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

	Regular Expressions
.	Any single digit
[abc]	Range of digits 'a', 'b' and 'c'
[a-d]	Range of digits 'a' thru 'd'
[^abc]	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 *

d) FXO

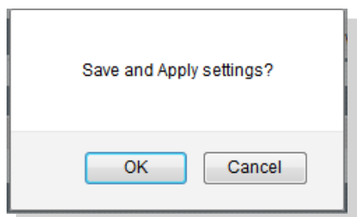
Set up the telephone numbers to route to each FXO interface, using comma or space separated lists of telephone numbers and regular expressions if ranges are required.

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 'DID to Forward to SIP' 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 con- nection through to the two FXO interfaces. This allows calls to be made through the first two FXS interfaces (to these two FXO inter- faces) even when the Vega is unable to actively process calls.

e) Saving Your Configuration

Press Submit to save, apply and activate the changes 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