



SARK 200 Mini PBX Sangoma Vega Gateways

Quick start configuration guide for SARK and Sangoma Vega 50 FXO Gateway

Before You Begin:

- The SARK PBX and Vega 50 appliance is connected to the network and all IP addresses are configured as needed. If not then please consult links below for SARK and Vega 50.

[SARK PBX Quick Start Guide](#)

[Vega 50 Quick Start Guide](#)

- You are able to connect to the Web interface of both SARK PBX and Vega 50.

SARK PBX Configuration

Open a browser and enter IP address of Sark PBX. On prompt enter the following details.

SARK 200 / SARK 500

User Name : admin (lower case)

Password : sarkadmin (lower case)

SARK 850/1000/1200

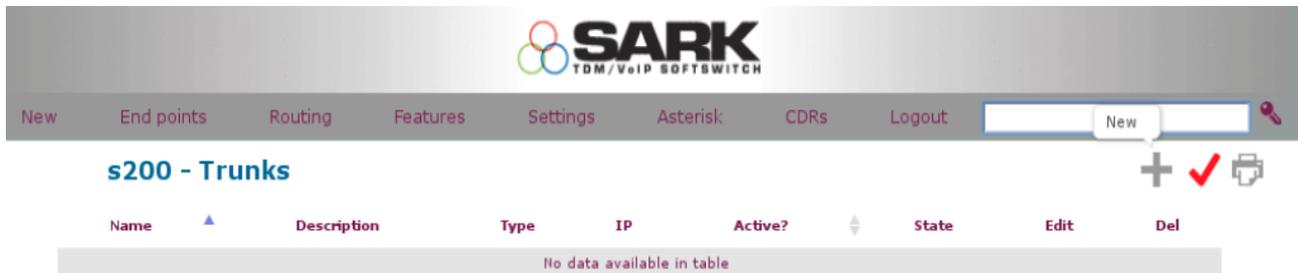
User Name : admin (lower case)

Password : Aster2sk!

Step 1 :

Create a sip trunk between Sark and Vega 50 box. To do that go to :

End Points >> Trunks and click on New Object icon as shown below.



Choose **GeneralSIP** from Trunk Type drop down menu. Some extra fields will appear on the screen.

Set a name for the trunk (Without Space) and insert the IP address of the Vega gateway. Leave everything else as default and press save and then the commit button.



Step 2 :

Next step is to create an inbound route for calls coming from Vega gateway to Sark. This is where you define the numbers assigned to you by Fixed line provider generally BT/Virgin Media for UK.

The default route in Sark (_XXXX.) match any DID number coming in to Sark and forward it to the system operator. It is good practice to specify the line number which gives more control on inbound call routing.

New End points Routing Features Settings Asterisk CDRs Logout

s200 - Inbound Routing

DiD/CLI	Type	Name	Open	Closed	Alpha Tag	SWOC?	Act?	Del
_XXXX.	Class	None	Operator	Operator	None	NO	YES	

To add a DID click on new object icon and select DID from Carrier drop down menu. Now enter a name for the incoming line. Enter the DID(geographic) number associated with PSTN line and press save and then the commit button.

New End points Routing Features Settings Asterisk CDRs Logout

s200 - Add a DDI/CLI Route

Route Type:

Name:

DiD Number:

Smartlink:

Finally add any extra DID`s for additional lines and press commit button to save and apply settings. See example of DID`s below.

New End points Routing Features Settings Asterisk CDRs Logout

s200 - Updates have been Committed

DiD/CLI	Type	Name	Open	Closed	Alpha Tag	SWOC?	Act?	Del
01484624294	DiD	Line2	Operator	Operator	None	YES	YES	
01484624923	DiD	Line1	Operator	Operator	None	YES	YES	
_XXXX.	Class	None	Operator	Operator	None	NO	YES	

Step 3:

The next step is to create outbound route, for this go to Routing >> Route(outbound) this will take you to the following page.

You can either change the default route below or create a new outbound route by clicking New.

Route	Dialplan	Description	Strategy	Path 1	Path 2	Auth	Act?	Edit	Del
DEFAULT	_XXXX.	DEFAULT TRUNK	Click to edit	None	None	NO	YES		

You can change the route name to anything you like. For Path1 you will need to select the name of your Trunk discussed in step 1, in this case it is “Vega50”, then leave the rest of the settings as default.

s200 - Add New Route

Route:

Active?:

Auth:

Strategy:

Description:

Dialplan:

Path 1:

Path 2:

Path 3:

Path 4:

Vega 50 4-8 Port FXO Configuration

Open a browser and enter IP address of Vega 50. On prompt enter the details as below to log in.

User Name : admin

Password : admin

Step 4:

On main login page click on Quick Config and press Continue on prompt.

Step 5:

Basic config

Under General menu Select the country where Vega is to be commissioned. Then select a valid static IP address for the Vega box. Also remember to change the login password.

Vega 50 GW Configuration ⚠ Unsaved Configuration Changes

Host Name: this_hostname
IP Address: 192.168.2.147
User Name: admin

Basic Config | **VoIP** | FXO | Submit | New Install? | Exit

General
Country: UK | Timezone Offset (HHMM): 0000 | Emergency Numbers: 999,112,911,000

LAN 1 Configuration

Interface	Physical
<input checked="" type="checkbox"/> Obtain IP Settings automatically Using DHCP	Speed: Auto
IP Address: 192.168.XXX.XXX	Duplex: Half
Subnet Mask: 255.255.255.0	
Gateway: 192.168.XXX.XXX	
Preferred DNS Server: 8.8.4.4	QoS
Alternate DNS Server: 0.0.0.0	TOS/Diffserve: 0
NTP Time Server: 0.0.0.0	802.1pQ: <input type="checkbox"/>
	VLAN ID: 0
	Priority: 0

Login Password
New Password: | Re-Enter Password: |

Step 6: VoIP

Next go to VoIP section and enter the IP address of SARK as SIP domain and SIP server IP/Name. Make sure registration mode is turn off and change **codec 1** priority to G711Alaw64k or as shown below.

Vega 50 GW Configuration ⚠ Unsaved Configuration Changes

Host Name: this_hostname
IP Address: 192.168.2.147
User Name: admin

Basic Config | **VoIP** | FXO | Submit | New Install? | Exit

VoIP Device Configuration

Registration Mode: Off
Outbound Proxy Used?: No

SIP Domain: 192.168.X.X
SIP Server IP/Name: 192.168.X.X
Outbound proxy IP/Name: 0.0.0.0

Registration and Authentication ID: Reg and Auth ID
Authentication Password: ****

Codecs

Priority	1	2	3	4	5	6
CODEC	g711Alaw64k	g711Ulaw64k	g729	g7231	t38udp	octet

Step 7: FXO

Next go to FXO section. Enable the check box for **Tone Based Discount**, **Handle Emergency calls** and **Call ID Detection**.

Enabling emergency calls feature will automatically create a dial plan on Vega 50 to pass

all emergency calls over FXO line where as Call ID detection feature is only needed when the service is activated from the service provider side.

Next change Telephone numbers(s) to route field to (.*) for all FXO ports or as shown below. Add the DID numbers provided by fixed line provider under DID to Forward to SIP and make sure the numbers under DID to Forward section matches the inbound numbers created on Sark in step 2.

Vega 50 GW Configuration

Host Name: this_hostname
IP Address: 192.168.2.147
User Name: admin

Basic Config | VoIP | **FXO** | Submit | New Install? | Exit

Tone Based Disconnect 1
Enable

Interface	Handle Emergency Calls?	Enable Caller ID Detection	Numeric Caller ID	Textual Caller ID	Telephone number(s) to route to the FXO interface	DID to Forward to SIP
0201	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0201	FXO1	.*	01484840048
0202	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0202	FXO2	.*	01484840049
0203	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0203	FXO3	.*	014848400XX
0204	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0204	FXO4	.*	01484840XXX

Finally select the **New Install ?** Check box and press the Submit button. Wait couple of seconds and press the Reboot system button when it appears.

Now you should be able to make/receive calls from and to Vega/SARK PBX.