



Configuring Sangoma Vega 100 Gateway for Spitzfire SIP Trunks

This document is a guideline for configuring Spitzfire SIP trunks onto Sangoma Gateway and includes the settings required for Inbound DDI routing and Outbound CLI presentation. The settings contained within have been tested and are known to work at the time of testing.

SIP trunk details such as account number and password will be provided separately.

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This guide assumes that you have read the documentation provided by Sangoma and have logged into the device. It also assumes that you have an operational TDM PBX behind the gateway – please note that some of the instructions in this guide may need to be adapted dependant on the TDM PBX you are using.

Provisioning of a SIP Trunk

Quick Config>Basic Config

General			
Country	UK	Timezone Offset (HHMM)	0000
Emergency Numbers	999,112,911,000,101		
LAN			
Interface		Physical	
<input type="checkbox"/> Obtain IP Settings automatically Using DHCP		Speed	100BASE-TX
IP Address	10.0.2.200	Duplex	Full
Subnet Mask	255.255.255.0	QoS	
Gateway	10.0.2.254	TOS/Diffserv	0
Preferred DNS Server	217.13.128.17	802.1pQ	<input type="checkbox"/>
Alternate DNS Server	83.218.143.36	VLAN ID	0
NTP Time Server	83.218.143.36	Priority	0
Codecs			
Priority	1	2	3
Voice	g711Alaw64k	g711Ulaw64k	None
Data	None	None	None
Login Password			
New Password		Re-Enter Password	

- Country : UK
- IP Address: Can be determined by the user
- Subnet Mask: Can be determined by the user
- Gateway: Can be determined by the user
- Preferred DNS Server: 217.13.128.17
- Alternate DNS Server: 83.218.143.36
- NTP Time Server: 83.218.143.36
- Voice Codec 1: g711Alaw64k
- Voice Codec 2: g711Ulaw64k
- New Password: (Provided by Spitfire)
- Now click Submit

Quick Config>VoIP

VoIP Routing Mode	
<input checked="" type="radio"/>	Send calls via a VoIP Service Provider/Proxy
<input type="radio"/>	Send calls to specified VoIP devices
VoIP Device Configuration	
Proxy domain name	spitfiresp.net
Proxy address	83.218.143.16
Registrar address	83.218.143.16
Outbound proxy address	83.218.143.16
Registration Mode	Gateway ▾
Registration and Authentication ID	442891377985
Authentication Password	****

- Proxy domain name: spitfiresp.net
- Proxy address: 83.218.143.16
- Registrar address: 83.218.143.16
- Outbound proxy address: 83.218.143.16
- Registration Mode: Gateway
- Registration and Authentication ID: 442891377985 (Provided by Spitfire)
- Authentication Password: (Provided by Spitfire)
- Now click Submit

Call Routing

Connect to the Vega 100 using an SSH client such as putty

- Login as: admin
- Password: (Provided by Spitfire)
- Enter the following commands as shown below

```
admin > set _advanced. sip. tel_srce = to_header
admin > apply
admin > set _advanced. sip. privacy. standard=rpid
admin > apply
admin > save
```

THIS IS VERY IMPORTANT AS THIS ALLOWS THE VEGA TO ROUTE TO DDIs ON INCOMING CALLS
AND TO PRESENT THE CORRECT CLI WHEN DIALLING OUT

Outbound Routing – Reference Only

Quick Config>E1/T1

Telephone Connections			
Interface	Handle Emergency Calls?	Telephone Number List Same As Interface	Telephone number list
0401	<input type="checkbox"/>	None ▾	.*
0402	<input type="checkbox"/>	None ▾	
0403	<input type="checkbox"/>	None ▾	
0404	<input type="checkbox"/>	None ▾	

Port Settings			
Protocol	auto ▾	Framing	auto ▾
Interface	NT?	Number of Channels	Channel Allocation
0401	<input checked="" type="checkbox"/>	auto	default ▾
0402	<input type="checkbox"/>	auto	default ▾
0403	<input type="checkbox"/>	auto	default ▾
0404	<input type="checkbox"/>	auto	default ▾

- Telephone number list: .*
This dial plan will send anything sent from the TDM PBX out of the SIP trunk – you may need to adapt this depending on your configuration
- Check the NT? Box next to the interface you will be connecting to the SIP trunk

Inbound Routing – Reference Only

Expert Config>Dial Plan>Profiles

Profiles				
Del?	ID	Name	Enabled	
<input type="checkbox"/>	20	To_SIP	<input checked="" type="checkbox"/>	Modify
<input type="checkbox"/>	21	To_TDMPBX	<input checked="" type="checkbox"/>	Modify

- Rename the plan To_E1T1 to To_TDMPBX
- Click Modify next to the plan To_TDMPBX

Expert Config>Dial Plan>Plans In This Profile

Plans In This Profile						
Del?	Plan ID	Name	Source	Destination	Cost	Group
<input type="checkbox"/>	1	TDMPBX01	IF:99..,TEL:<(.*><(.)>	IF:0401,TEL:<2>	0 ▾	0 - None ▾

THIS EXAMPLE SENDS 6 DIGITS TO THE PBX BUT YOU MAY NEED TO MODIFY THIS DEPENDANT ON YOUR CONFIGURATION