

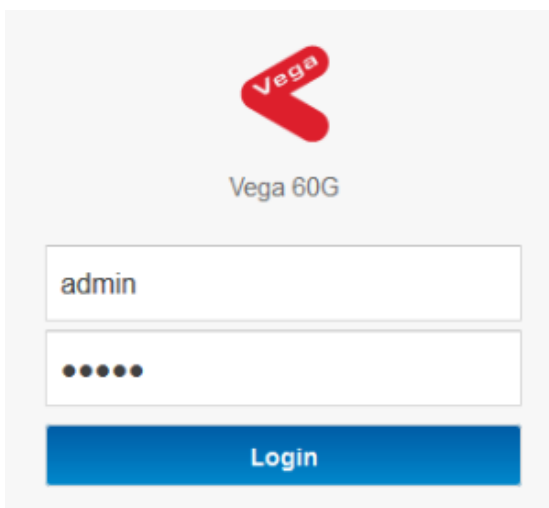
Registering Vega with FreePBX (CHAN_SIP on port 5160)

- Vega Configuration
- FreePBX Configuration
- Intrusion detection (Recommendation)

Vega Configuration

The following steps illustrate how to register your Vega product with FreePBX. This guide applies to all Vega products

1. Log into your Vega **webGUI**



Vega 60G

admin

•••••

Login

2. Log into the **Quick Config**

**Any modifications performed in *Quick Config* will overwrite ALL configuration on the Vega (so if you have made any adjustments in *Expert Config*, they will be erased!!)

Vega Vega 60G GW Configuration

Overview / System Status


- Overview
- Configuration
 - Quick Config
 - Expert Config
 - System
 - Logging
 - LAN/WAN
 - POTS
 - Dial Plan
 - Media
 - Tones
 - SIP
 - ENP
 - Supp.Services
 - Advanced
 - CLI
- Report

System

Product Section
Serial Number
Firmware File
Version Information






Registrar and Proxy

Domain
Proxy
Registrar



3. **Configure VoIP** Registration details as follows

VoIP Device Configuration

General VoIP Configuration	
Registration Mode	Gateway 
Local Gateway Configuration	
SIP Local Port	5060
Remote Server Configuration	
SIP Server IP/FQDN	10.4.2.20 
SIP Server Port	5160 
SIP Server Transport Mode	udp
SIP Accessibility Check	options
Registration/Authentication ID	vega 
Authentication Password	sangoma1 

- a. Click on the 'Registration Mode' and select 'Gateway'
- b. Insert your FreePBX IP address in 'SIP Server IP/Name'
- c. Enter the Chan_SIP port (5160)
- d. Under 'Registration and Authentication ID' and 'Authentication Password' insert the registration credentials that you have assigned (or will assign) for the Vega inside FreePBX. Remember these credentials as they will be used for FreePBX configuration.

In our example we want to use 'Vega' and 'sangoma1' for the password, as follows:

Registration/Authentication ID	vega
Authentication Password	sangoma1

4. Finish configuring your Vega by clicking on the last tab.

In our example we are using a Vega 60 so its FXO, digital Vega's will have T1/E1 tab

FXO

General FXO Configuration

Tone Based Disconnect 1 Enable Caller ID Type Information gr30-mdmf

Digital Rx Gain -1 Digital Tx Gain 3

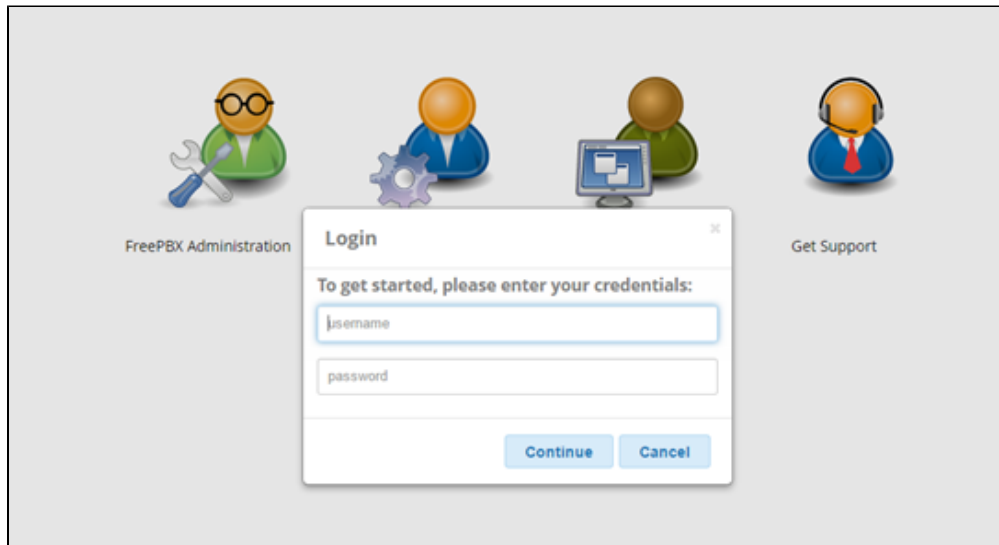
Telephone Connections

Port	Handle Emergency Calls?	Enable Caller ID Detection	Numeric Caller ID	Textual Caller ID	Telephone number(s) to route to FXO interface	DID to Forward to SIP
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0201	FX01	*	4000
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0202	FX02	*	default
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0203	FX03	*	default
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0204	FX04	*	default

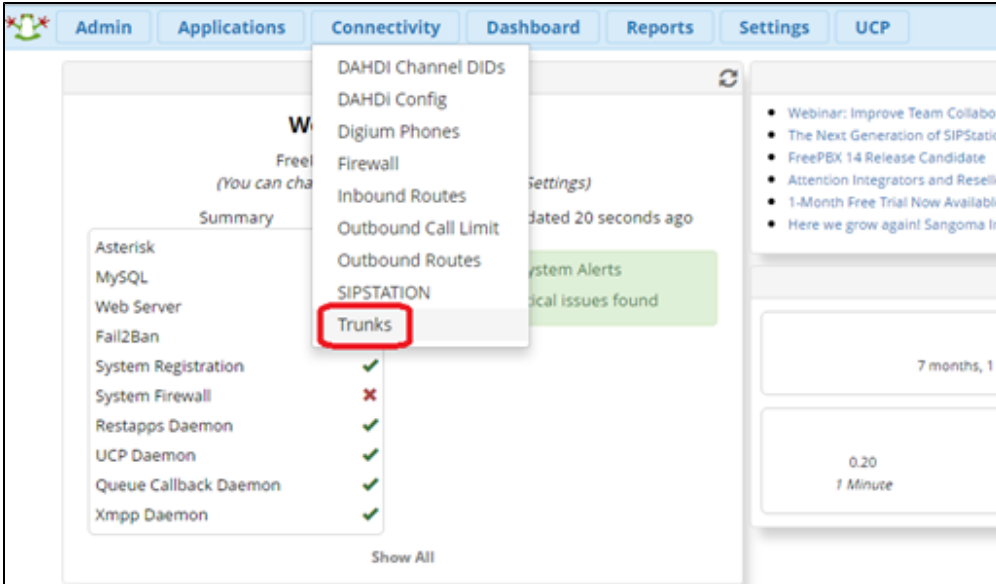
The Vega will ask you to **apply** and **save** your changes.

FreePBX Configuration

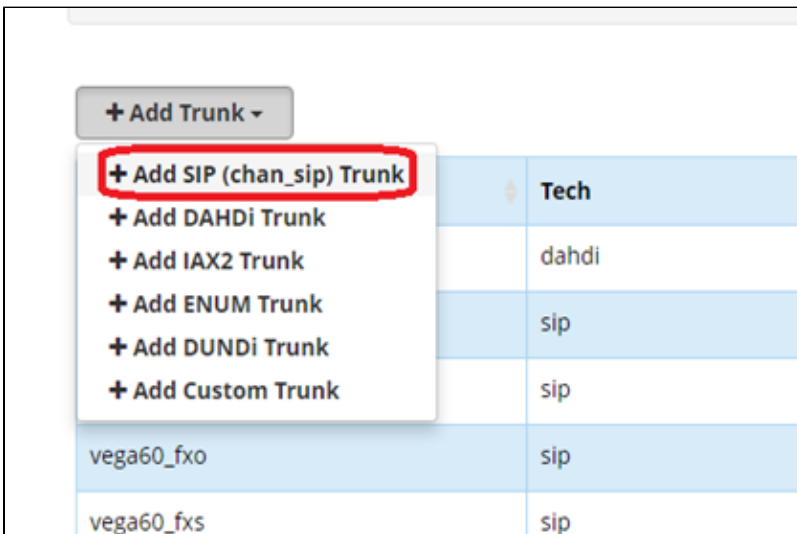
1. Log into the **FreePBX webGUI**



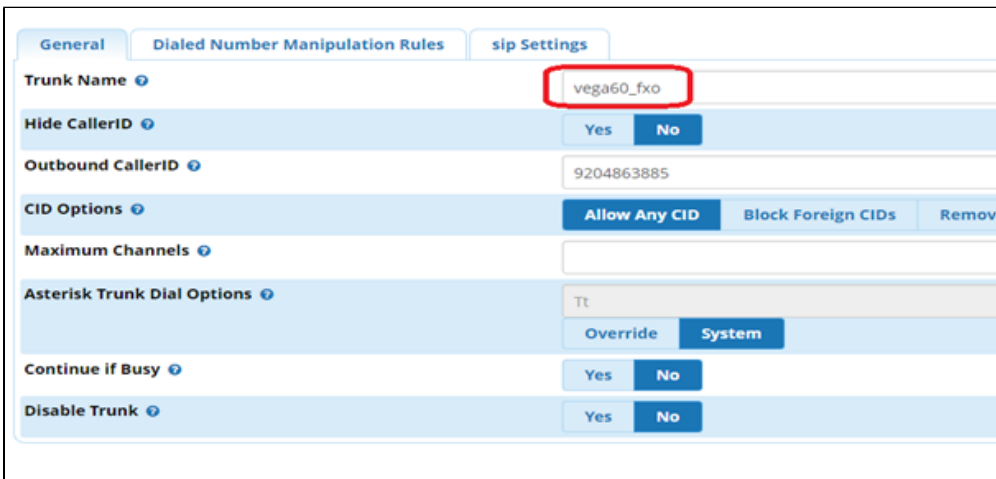
2. Click on **Trunks**, located under **Connectivity**



3. Click on 'Add SIP (chan_sip) Trunk', to add a new trunk



4. Define **Trunk Name**. In our example, we called it 'vega60_fxo'



5. Configure SIP Settings 'Outgoing' **Peer details**

a. Configure the *Trunk Name*

-> This should be a Generic Name, In the example below we used 'vega' and it should match the Register User in the Vega.



b. Configure the *PEER Details*


- **host**=dynamic (The Vega will provide its IP in the Registration)
- **username**=vega (The Authentication ID used when configuring the Vega Gateway)
- **secret**=sangoma1 (The Authentication password used when configuring the Vega Gateway)
- <insert the rest of typical details, as seen in picture below>

example:

```
type=peer
insecure=port,invite
username=vega
secret=sangoma1
host=dynamic
dtmfmode=rfc2833
disallow=all
allow=ulaw&alaw&g729
trustpid=yes
sendrpid=yes
qualify=yes
context=from-trunk
```

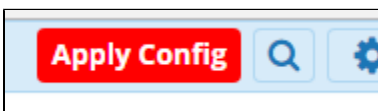
Outgoing Incoming

Trunk Name  vega 

PEER Details 

```
type=peer
insecure=port,invite
username=vega
secret=sangoma1
host=dynamic
dtmfmode=rfc2833
disallow=all
allow=ulaw&alaw&g729
trustpid=yes
sendrpid=yes
qualify=yes
context=from-trunk
```

6. The last step is to **Apply Configuration**.



To verify registration Open the 'Status' Page of the Vega Gateway webgui and look at *SIP Registrations*

SIP Registrations

Registered Users 1 of 8 users registered

SIP Registrations

```
SIP REG
-----
SIP Profile 1 - registration expiry = 600s
-----
SIP REG USER 1
--- address - vega@10.4.2.20
--- registrar - 10.4.2.20:5160
--- auth user - vega
--- contact - [sip:vega@10.4.2.21:5060]
--- state - registered (user 1)
--- TTL - 225 seconds
```

Intrusion detection (Recommendation)

In order to have the **Vega** register to **FreePBX** we recommend adding the Vega's IP Address (or add the entire subnet where the Vega is installed) to the **Intrusion Detection** module whitelist.

- To do this navigate to **Admin -> System Admin -> Intrusion Detection**
- Add the Vega's IP or Subnet in the **Whitelist** field
- **Submit** changes
- **Restart** the Intrusion Detection service

Status	running
Intrusion Detection ?	<input type="button" value="Stop"/> <input type="button" value="Restart"/>
Ban Time ?	<input type="text" value="1800"/>
Length of time in seconds a remote IP is banned before being reset.	
Max Retry ?	<input type="text" value="8"/>
Find Time ?	<input type="text" value="600"/>
E-mail: ?	<input type="text" value="email"/>
Whitelist ?	<input type="text" value="127.0.0.1"/> <input type="text" value="10.100.0.0/24"/> <input type="text" value="10.4.2.0/24"/>

