

QuestBlue Systems SIP Trunk Setup with FreePBX version 13.0.27 / Dated DEC -2015

One of the major differences in this version will be the addition of the FreePBX Firewall and PJSIP.

At QuestBlue Systems we will support you in both firewall options as noted below:

A. Built in Sangoma Firewall

B. IPTABLES firewall Access Control List /etc/sysconfig/iptables

QuestBlue Systems will not support the SIPStation Free Trial that you *may* have selected Start Trial during your install. If you selected Not Now, then you can continue below.

First steps after creating your login to the GUI will be a question of optional add-on products.

These products are completely up to you, however they are supported by Sangoma.

They are not products that QuestBlue Systems will support.

Your next screen will be the Firewall option.

All new in the version FreePBX 13 is the built-in Sangoma Firewall.

We recommend to our clients that have network / CentOS knowledge to avoid this firewall and use IPTABLES as your firewall. This is an option that you can make at this time.

We have selected to ABORT the built in Firewall from Sangoma.

Once you have navigated to the next screen of the iso installation you will notice a sales question asking you to purchase SIPStation Free Trial.

At QuestBlue Systems we do not support SIPStation in your FreePBX, we only support the SIP Trunks associated to QuestBlue Systems and interconnected systems over iax2.

Our suggestion is to select abort when asked.

Sangoma Smart Firewall is now enabled!



To receive the full benefits of the Sangoma Smart Firewall, you should ensure that **no other firewall** is intercepting traffic to this machine. This is normally accomplished by configuring your internet connection to place this machine in the 'DMZ' of your gateway.
If you are unable to do this, it is unlikely that Responsive Firewall will work correctly, if at all.

Abort

Continue

Because of our selection of the Firewall we will need to address an error that is on the main dashboard.

System Overview

Welcome to FreePBX

FreePBX 13.0.27 'VoIP Server'
(You can change this name in Advanced Settings)

Summary SysInfo updated -16853 seconds ago

Asterisk	⚠
MySQL	✓
Web Server	✓
Fail2Ban	✓
System Registration	ℹ
System Firewall	✗
UCP Daemon	✓

System Alerts
No critical issues found

- Missing HTML5 format converters
- Collecting Anonymous Browser Stats
- Default bind port for CHAN_PJSIP is: 5060, CHAN_SIP is: 5061

Show New

Admin Applications Connectivity Dashboard Reports Settings UCP

- FreePBX holiday cyber weekend is
- Forget Cyber Monday, It's Going to
- Commercial Modules, Support Pro
- Rob's Twist on: Why You Need a Fi
- FreePBX Zulu UC
- Checklist: 6 Things to Consider Wh

Asterisk Users Onli

Uptime

CPU

Memory

Disk

Network

To correct this error, please go to Admin -- Module Admin and locate System Firewall under Connectivity

Admin	Applications	Connectivity	Dashboard	Reports	Settings
> Queue Priorities	13.0.2	Stable	Sangoma Technologie	GPL	
> Queues	13.0.12	Stable	Sangoma Technologie	GPL	
> Ring Groups	13.0.7	Stable	Sangoma Technologie	GPL	
> Set CallerID	13.0.4	Stable	Sangoma Technologie	GPL	
> Text To Speech	13.0.5	Stable	Sangoma Technologie	GPL	
> Time Conditions	13.0.12	Stable	Sangoma Technologie	GPL	
> Virtual Queue Plus	13.0.14	Stable	Sangoma Technologie	Com	
> Voicemail Blasting	13.0.6	Stable	Sangoma Technologie	GPL	
> Voicemail Notifications	13.0.7	Stable	Sangoma Technologie	Com	
> Wake Up Calls	13.0.7	Stable	Sangoma Technologie	GPL	
> Web Callback	13.0.6	Stable	Sangoma Technologie	Com	

Connectivity

Module	Version	Track	Publisher	Licer
> DAHDi Config	13.0.7	Stable	Sangoma Technologie	GPL
> Digium Phones Config	2.11.2.9	Stable	Digium	GPL
> Extension Routes	13.0.4.2	Stable	Sangoma Technologie	Com
> Outbound Call Limit	13.0.3	Stable	Sangoma Technologie	Com
> SIPSTATION	13.0.13.2	Stable	Sangoma Technologie	Com
> SMS	13.0.2	Stable	Sangoma Technologie	Com
▼ System Firewall	13.0.14	Stable	Sangoma Technologie	AGP

Info
Changelog

Publisher: Sangoma Technologies Corporation
License: AGPLv3+
Signature Status: Good (What Does this Mean?)
Description: Integrated FreePBX Firewall. Currently works with RHEL 6 and RHEL 7 con
More info: Get help for [System Firewall](#)

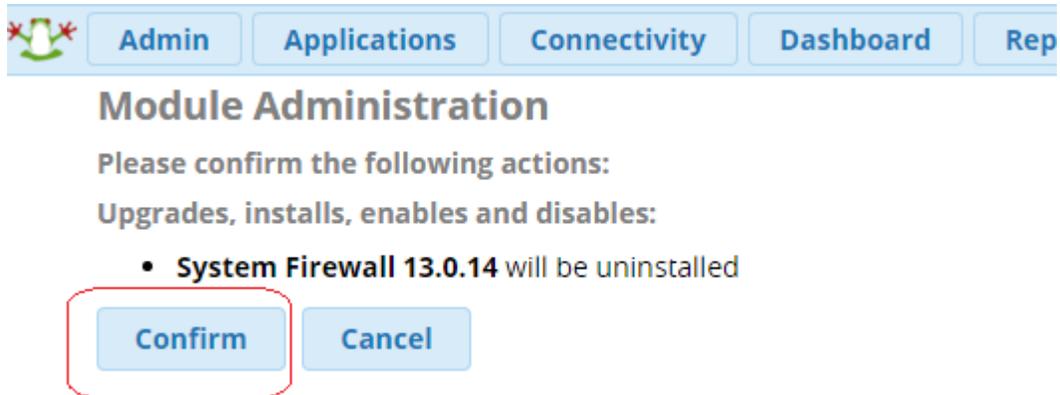
Track: Stable

Action: No Action Uninstall Remove

After making your selection above you will need to process your selection

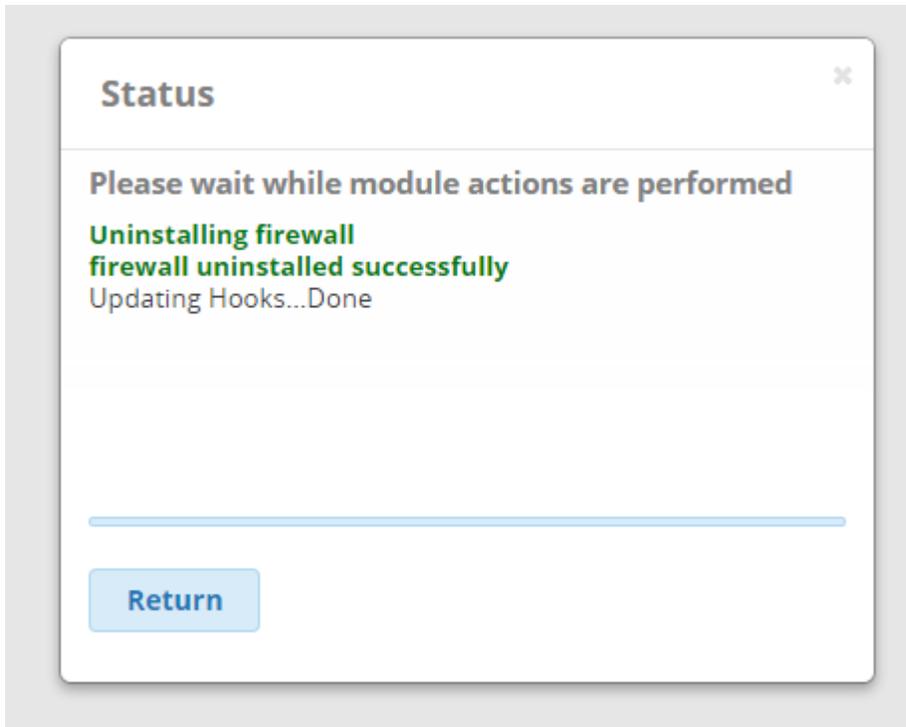
Reset
Process

Please confirm your selection



The screenshot shows a web-based configuration interface. At the top, there is a navigation bar with a green frog icon and several menu items: "Admin", "Applications", "Connectivity", "Dashboard", and "Rep". Below the navigation bar, the main content area is titled "Module Administration". Under this title, there is a prompt: "Please confirm the following actions:" followed by "Upgrades, installs, enables and disables:". A bulleted list contains one item: "• System Firewall 13.0.14 will be uninstalled". At the bottom of the dialog, there are two buttons: "Confirm" and "Cancel". The "Confirm" button is highlighted with a red rounded rectangular border.

Next you will select Return and then Apply Config in the top right hand corner



We will now move on to the Setting Advanced Setting section.

Here we will only make one modification to this area.

We want to remove the RSS Feeds from the main dashboard to avoid any bandwidth being used for anything not VoIP related.



Remove all the text in this box and select No

Then Select SUBMIT on the bottom right of your screen along with Apply Config in the Top Right when prompted.

Now if you click on Dashboard across the top you will return to a clean Dashboard.

Navigate to Settings - Advanced Settings and locate SIP CHANNEL Driver and change it from BOTH to CHAN_PJSIP

SIP Channel Driver 

chan_pjsip

The chan_pjsip channel driver is considered "experimental" with known issues and does not work on Asterisk 11 or lower.

Now we are going to create a PJSIP trunk in the Trunk Module.

At the tab bar go to the Connectivity tab, and then select TRUNK

Now click on "+ ADD TRUNK" < "+ADD SIP (chan_pjsip) Trunk"

Trunks

This page is used to manage various system trunks

+ Add Trunk ▾

- + Add SIP (chan_pjsip) Trunk
- + Add DAHDi Trunk
- + Add IAX2 Trunk
- + Add ENUM Trunk
- + Add DUNDi Trunk
- + Add Custom Trunk

Under the General tab, enter the trunk name: Questblue

General | Dialplan Manipulation Rules | **pjsip Settings**

Trunk Name  QuestBlue

Under the Dialplan Manipulation Rules, enter the following:

(1)	prefix	[NXXNXXXXX]	/
(prepend)	prefix	[1NXXNXXXXX]	/

Under the pjsip Settings, enter the following:

The username should be your trunk name

Username

MYTRUNKNAME

The password, also known as secret, can be anything

Secret

.....

Select OUTBOUND as the Authentication method

Registration should have NONE selected

The only field left to enter is SIP Server: sbc.questblue.com

Submit the changes, and once the red Apply Config button appears click it

The next step in setting up your PBX to use PJSIP is to add an outbound route

Outbound Routes

This page is used to manage your outbound routing.

[+ Add Outbound Route](#)

Enter a route name

Route Name ⓘ

outbound

The only other setting we need to add here is the Trunk Sequence for Matched Route

We will select the trunk we just created for this

Trunk Sequence for Matched Routes ⓘ

[+](#) QuestBlue

Click on the Dial Patterns tab, and enter the following:

(prepend)	prefix		[1NXXNXXXXXX]
(1)	prefix		[NXXNXXXXXX]

Submit the changes, and once the red Apply Config button appears click it

Now we must add an inbound route

Inbound Routes

[+ Add Inbound Route](#)

The first entries must be a description and the DID number

General	Advanced	Privacy	Fax	Other
Description ⓘ				
Sales				
DID Number ⓘ				
8883390037				

The only other setting that is important is the destination

I created an extension and registered a phone as that extension. I have set the extension to be the destination so that when people call my inbound route I just created my phone 100 rings

Set Destination ⓘ	Extensions
	100 100

Submit the changes, and once the red Apply Config button appears click it