



Cloud managed & monitored
VoIP Gateways and Appliances

How to create a Survival Branch Appliance with a beroNet VoIP Gateway



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About the beroNet SBA application

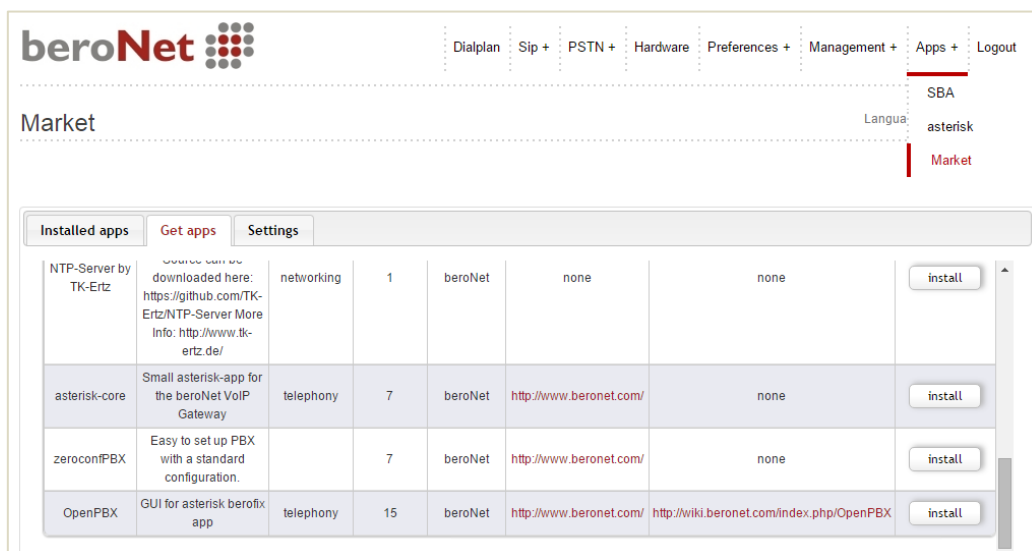
The beroNet SBA application is designed to create a back-up solution for VoIP installations with a hosted PBX and central PBX systems with external offices. In such installations, the VoIP telephones are registered on an IPBX outside of the firm. Problems can occur when the connection between the PBX and the end-points fail: the employees are then unable to be called, call outside or even call each other: the phones are useless.

The beroNet SBA application aims at resolving this problem by enabling the phones to have a backup registration directly on the gateway which enables them to

- Call each other as if nothing happened
- Call outside via an ISDN, analog, GSM or SIP trunk

I) Installing the application

In order to install the application, the firmware 3.x is needed. Please visit beronet.com in order to download it. The firmware brings the “Apps” tab onto the web interface:



On the market, a few applications are available. They enable beroNet partner to enhance the capacities of their VoIP gateways. In order to get the SBA working, two applications need to be downloaded:

- The “Asterisk-core”
- The “SBA”

2) Features offered by the SBA

A) Configuration of the SBA

The application is very easily designed. Everything can be configured from a “.csv” file explained and downloadable under the “help” page.

On the file, three parts need to be configured:

- The SIP phones: they need to get a backup registration on the app. It is necessary to use the same credentials as the main registration so that the extensions do not change when a problem on the main IPBX occurs. **ATTENTION: the SBA uses port 25060.**
- The Call groups: they can be configured so that habits stay the same even during the use of the backup system.
- The SIP trunk: the trunk on which calls need to be made when the SBA is used. It can be a SIP connection to the gateway (which will have the same IP but with the port 5060) or a SIP trunk of a VoIP carrier.

The screenshot shows the 'SBA' configuration page in the beroNet interface. It includes three tables:

SIP - Phones	
Phone	Extension
100	100
102	102
103	103
104	104

Call - Groups		
Group	Members	Extension
sales	100&103	554

SIP - Trunks		
Trunk	Server	Prefix
SBA	172.20.8.3	0

B) Updates of the configuration

The updates in the configuration file can be uploaded manually or vial URL. If they are done manually, the configuration needs to be activated thanks to the “reload Asterisk” button:

The screenshot shows the 'Manual Configuration Upload' form. It includes a text input for 'File', a 'Datei auswählen' button, and a 'Keine ausgewählt' status. Below is an 'upload' button. At the bottom, there is an 'Activate Configuration' section with a note and a 'Reload Asterisk' button.

The Auto-Updates can be done via a Webserver from which the SBA App will regularly download its configuration. This method is the best way to use the SBA at its full potential:

Auto-Update Settings

Define a Webserver URL from which the SBA App will regularly download its configuration.

URL (Server and URL of a users.csv file, may contain {MAC} and {SERIAL})	http://172.20.5.18:5000/provis
HTTP-Auth (in the form User:Password)	

download

Thanks to the auto updates, modification in the .csv file can be done and will automatically be implemented on the SBA.