

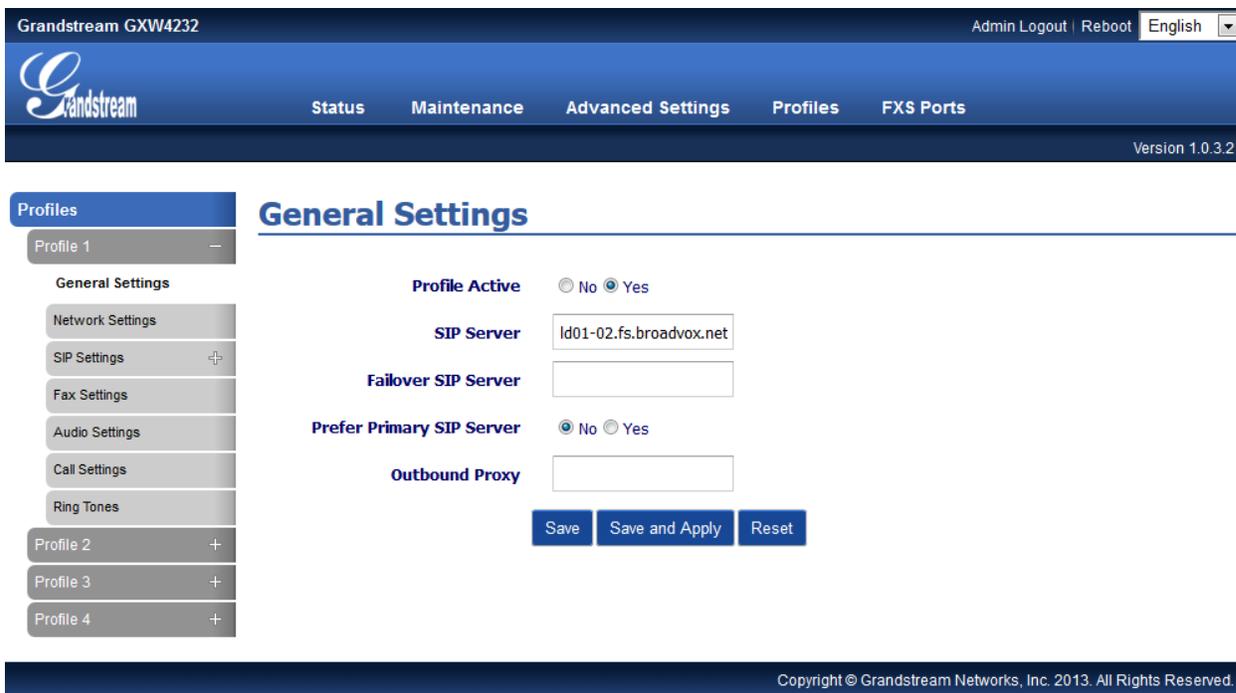
GXW42xx Configuration

This document introduces manual configuration steps performed for interoperability testing between Broadvox and Grandstream GXW42xx. Configuration parameters not explained in this document were kept at factory default settings. Grandstream products support automated provisioning via TR-069 or AES encrypted XML configuration file. For details on Grandstream device automated provisioning, please refer to http://www.grandstream.com/general/gs_provisioning_guide_public.pdf.

1. Connect GXW42xx to the network and power it up. Connect an analog phone to a FXS port.
2. From the analog phone, press *** to get into the Interactive Voice Prompt (IVR) menu, enter 02 to get the GXW42xx's IP address. From a PC in the same LAN, log into the GXW42xx's Web UI by typing the GXW42xx's IP address on the PC's web browser.

Default login name and password for the administrator is admin/admin for Grandstream devices.

3. Click on tab "PROFILE 1", enter the following configuration items:
 - Under General Settings, configure SIP server:



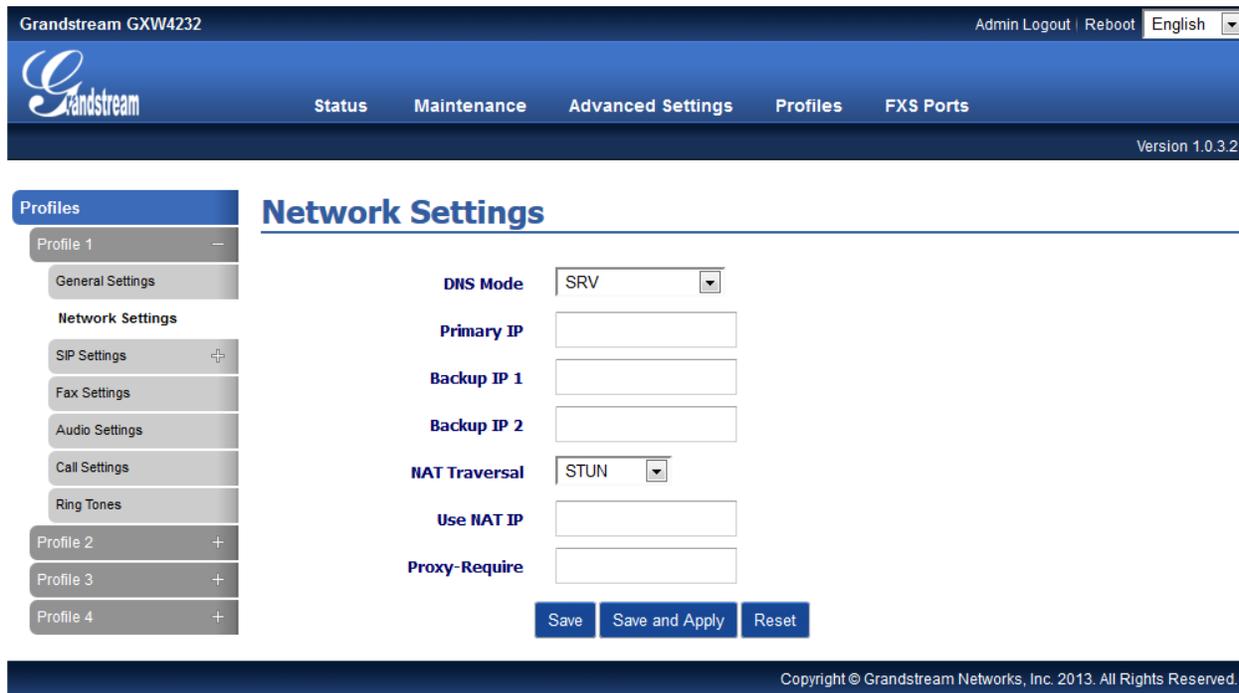
The screenshot shows the Grandstream GXW4232 Web UI. At the top, there is a navigation bar with the Grandstream logo, the device model 'GXW4232', and links for 'Admin Logout', 'Reboot', and a language dropdown set to 'English'. Below the navigation bar are tabs for 'Status', 'Maintenance', 'Advanced Settings', 'Profiles', and 'FXS Ports'. The 'Profiles' tab is selected, showing a list of profiles (Profile 1, Profile 2, Profile 3, Profile 4) with expand/collapse icons. The 'General Settings' section for Profile 1 is expanded, showing the following configuration options:

- Profile Active:** Radio buttons for 'No' and 'Yes' (selected).
- SIP Server:** Text input field containing 'ld01-02.fs.broadvox.net'.
- Failover SIP Server:** Empty text input field.
- Prefer Primary SIP Server:** Radio buttons for 'No' (selected) and 'Yes'.
- Outbound Proxy:** Empty text input field.

At the bottom of the configuration area are three buttons: 'Save', 'Save and Apply', and 'Reset'. The footer of the page contains the copyright notice: 'Copyright © Grandstream Networks, Inc. 2013. All Rights Reserved.'

- Click on "Save" at the bottom of the page.

- Under Network Settings, configure DNS Mode, and enable STUn



The screenshot shows the Grandstream GXW4232 administration interface. At the top, there is a header with the Grandstream logo, navigation tabs for Status, Maintenance, Advanced Settings, Profiles, and FXS Ports, and a language dropdown set to English. Below the header is a sidebar with a 'Profiles' menu containing Profile 1 (selected), Profile 2, Profile 3, and Profile 4. The main content area is titled 'Network Settings' and contains the following fields: DNS Mode (SRV), Primary IP, Backup IP 1, Backup IP 2, NAT Traversal (STUN), Use NAT IP, and Proxy-Require. At the bottom of the form are buttons for Save, Save and Apply, and Reset. A footer at the bottom of the page reads 'Copyright © Grandstream Networks, Inc. 2013. All Rights Reserved.'

- Click on “Save” at the bottom of the page.

4. Click on tab “Maintenance”, under Network Settings, configure a STUN server:

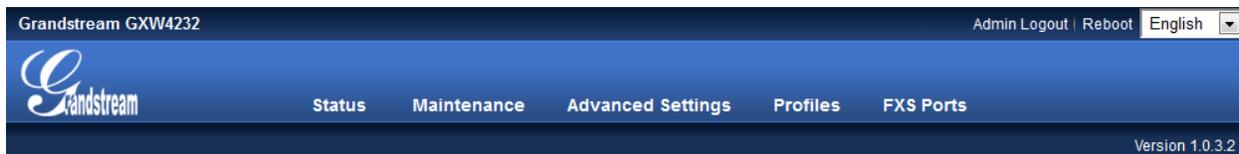


The screenshot shows the 'STUN Settings' configuration page. It includes the following fields: Use STUN (radio buttons for No and Yes, with Yes selected), STUN server (text input with 'stun.stunprotocol.org'), Number of STUN Response Misses Allowed (text input with '3'), and Keep-Alive Interval (text input with '20'). At the bottom are buttons for Save, Save and Apply, and Reset. A footer at the bottom of the page reads 'Copyright © Grandstream Networks, Inc. 2013. All Rights Reserved.'

- Click on “Save” at the bottom of the page.

5. Click on tab “FXS PORTS”,

- Under Port Settings, configure the SIP trunk account information below:



Grandstream GXW4232 Admin Logout | Reboot English

Status Maintenance Advanced Settings Profiles FXS Ports

Version 1.0.3.2

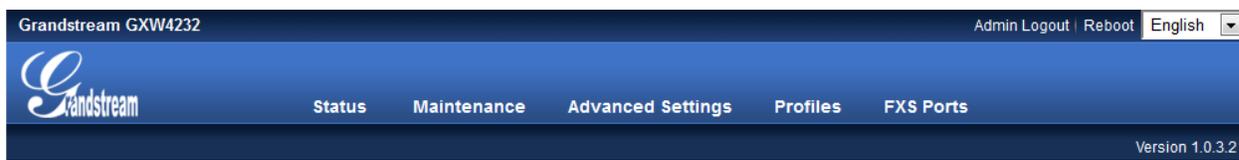
FXS Ports

Port Settings

Advanced Port Settings
FXO Mapping

Port	SIP User ID	Authenticate ID	Password	Name	Profile	Enable FXS (TR-069)
FXS 1	6173963995	6173963995		6173963995	Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes
FXS 2				6173963996	Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes
FXS 3				6173963997	Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes
FXS 4					Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes
FXS 5					Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes
FXS 6					Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes
FXS 7					Profile 1	<input type="radio"/> No <input checked="" type="radio"/> Yes

- Click on “Save” at the bottom of the page.
- Under Advanced port settings, configure the hunting group as below:



Grandstream GXW4232 Admin Logout | Reboot English

Status Maintenance Advanced Settings Profiles FXS Ports

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FXS Ports

Advanced Port Settings

Port Settings
Advanced Port Settings
FXO Mapping

Port	Offhook Auto-dial	Hunting Group
FXS 1		Active
FXS 2		1
FXS 3		1
FXS 4		None
FXS 5		None

- Click on “Save and Apply” at the bottom of the page to apply all new configurations.

Settings	Description
Primary SIP Server	SIP Server's IP address or Domain name provided by VoIP service provider.
NAT Traversal	Choose "STUN" if device is behind a NAT.
DNS Mode	Set up the lookup method for Domain Name System. Choose "SRV".
STUN Server	IP address or Domain name of the STUN server. STUN server assists devices behind a NAT firewall or a router to set up calls via VoIP.
Port	FXS Port Number
SIP User ID	Enter SIP trunk ID.
Authenticate ID	Same as SIP trunk ID.
Password	SIP authentication password.
Name	Name or a DID number for Caller ID display.
Profile ID	Select the corresponding Profile ID (1/2)
Hunting Group	Please see below.
Enable Port	If set to No, FXS port will become inactive (Default is set to Yes)

Hunting Group allows user to setup a single SIP account on the gateway and have the ability to use all FXS ports to make/receive calls. Using this feature, all ports active in same Hunting Group will share the same SIP trunk and incoming calls to any one of the three DID numbers assigned by Broadvox will be distributed in a Linear or Circular manner among the ports active in that Hunting Group.

Example Configuration:

1. Configure the SIP account for **FXS port 1** under **FXS PORTS** webpage.
2. Select **Active** under the **Hunting Group** drop box for FXS port 1.
3. For the remaining ports (2, 3 and 4) select **1** for **Hunting Group**. Ports 2, 3 and 4 are now active members of the hunting group associated with port 1.

This configuration will route all calls directed to FXS port 1 to ports 2, 3 and/or 4 in round robin fashion respectively *if* port 1 is busy or times out.

Note:

For more configuration information, please refer to GXW42xx user manual on our web site:

http://www.grandstream.com/products/gxw_series/gxw42xx/documents/gxw42xx_usermanual_english.pdf