

Configuring Grandstream GXP21xx Series

Things to do first before you can start the configuration.

- The computer must be connected to the same sub-network as the phone. This can be easily done by connecting the computer to the same hub or switch as the phone connected to. In absence of a hub/switch (or free ports on the hub/switch), please connect the computer directly to the PC port on the back of the phone;
- If the phone is properly connected to a working Internet connection, the IP address of the phone will display in **MENU > Status > Network Status**. This address has the format: xxx.xxx.xxx.xxx, where xxx stands for a number from 0-255. Users will need this number to access the Web GUI. For example, if the phone has IP address 192.168.40.154, please enter “<http://192.168.40.154>” in the address bar of the browser;
- There are two default passwords for the login page:

User Level	User	Password	Web Pages Allowed
End User Level	user	123	Only Status and Basic Settings
Administrator Level	admin	admin	Browse all pages

1. Open the web interface and click on **ACCOUNTS** then **General Settings**. Enter the settings as shown below. Click **Save and Apply**.

Account Name: SpinTel

SIP Server: 203.23.236.96

Outbound Proxy: 203.23.236.96

SIP User ID: Your sip number (XXXXXX) - *sent thru email*

Authentication ID: Your sip number (XXXXXX) - *sent thru email*

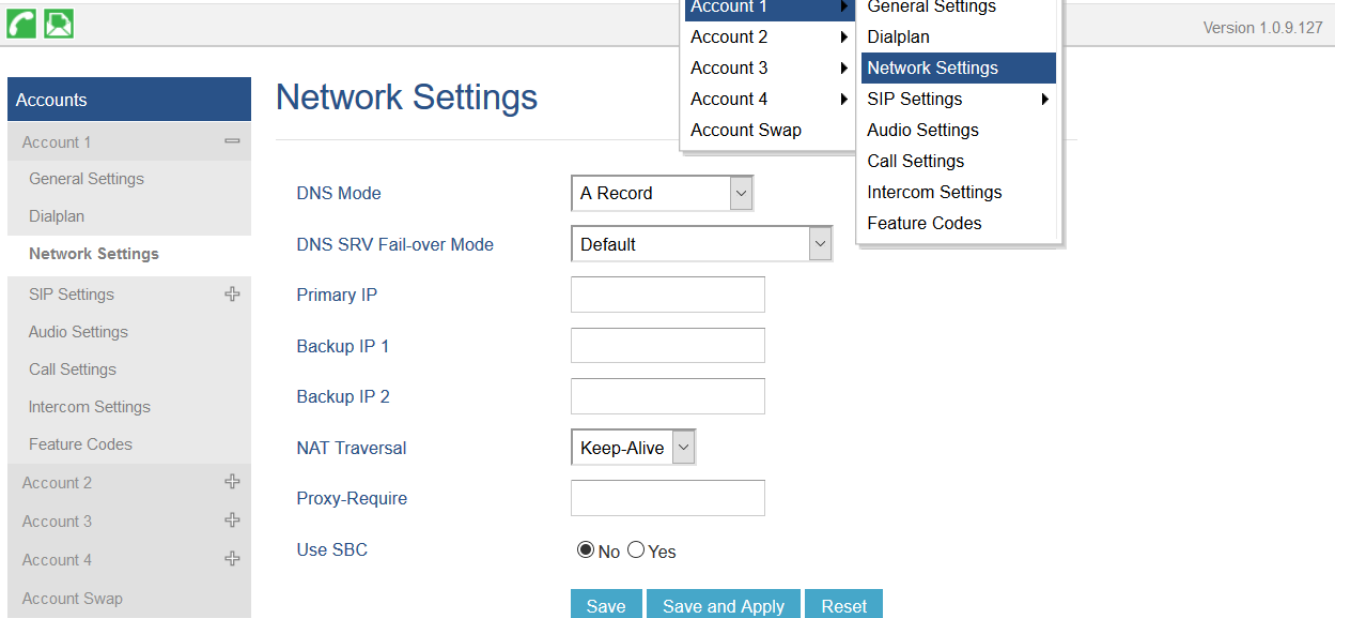
Authenticate Password: Your sip-number password - *sent thru email*

The screenshot shows the Grandstream web interface. At the top left is the Grandstream logo with the tagline "CONNECTING THE WORLD". To the right are navigation tabs: STATUS, ACCOUNTS, SETTINGS, NETWORK, MAINTENANCE, and PHONEBOOK. Below the navigation is a version indicator "Version 1.0.9.127". On the left side, there is a sidebar menu with "Accounts" expanded, showing "Account 1" selected. The main content area is titled "General Settings" and contains the following fields:

- Account Active: No Yes
- Account Name:
- SIP Server:
- Secondary SIP Server:
- Outbound Proxy:
- Backup Outbound Proxy:
- BLF Server:
- SIP User ID:
- Authenticate ID:
- Authenticate Password:
- Name:
- Voice Mail Access Number:
- Picture:
- Account Display: User Name User ID

At the bottom of the form are three buttons: "Save", "Save and Apply", and "Reset". A dropdown menu is open over the "ACCOUNTS" tab, listing "Account 1" through "Account Swap", with "Account 1" selected and its sub-menu open, showing options like "General Settings", "Dialplan", "Network Settings", "SIP Settings", "Audio Settings", "Call Settings", "Intercom Settings", and "Feature Codes".

2. Go to **Network Settings**, set **NAT Traversal** to **Keep-Alive**



The screenshot shows the Grandstream web interface for Account 1. The 'ACCOUNTS' menu is open, and 'Network Settings' is selected. The 'Network Settings' page is displayed, showing various configuration options:

- DNS Mode: A Record
- DNS SRV Fail-over Mode: Default
- Primary IP: [Empty text box]
- Backup IP 1: [Empty text box]
- Backup IP 2: [Empty text box]
- NAT Traversal: Keep-Alive
- Proxy-Require: [Empty text box]
- Use SBC: No Yes

At the bottom of the settings area are three buttons: Save, Save and Apply, and Reset.

3. Go to **SIP Settings** then **Basic Settings**. Set **Enable options keep alive** to **Yes**. Change **SIP Transport** to **UDP** if using fixed broadband; use **TCP** if using a 4G/mobile connection. Click **Save and Apply**.

The screenshot shows the Grandstream web interface for Account 1 settings. The 'Basic Settings' section is highlighted with a red box. The 'Enable OPTIONS Keep Alive' option is set to 'Yes' (radio button selected). The 'SIP Transport' option is set to 'UDP' (radio button selected). Other options include 'TEL URI' (Disabled), 'SIP Registration' (Yes), 'Unregister on Reboot' (No), 'Register Expiration' (60), 'Subscribe Expiration' (60), 'Reregister before Expiration' (0), and 'SIP Listening Mode' (Transport Only). The 'Save', 'Save and Apply', and 'Reset' buttons are visible at the bottom.

4. Go to **Audio Settings**. Make sure that it is setup to the information below:

Preferred Vocoder - choice 1 should be **G711 or PCMA**

Preferred Vocoder - choice 2 should be **G729A/B**

Accounts

- Account 1
- Account 2
- General Settings
- Dialplan
- Network Settings
- SIP Settings
- Audio Settings**
- Call Settings
- Intercom Settings
- Feature Codes

Audio Settings

Preferred Vocoder - choice 1	PCMA
Preferred Vocoder - choice 2	G.729A/B
Preferred Vocoder - choice 3	G.723.1
Preferred Vocoder - choice 4	G.722(wide band)
Preferred Vocoder - choice 5	iLBC
Preferred Vocoder - choice 6	G.726-32
Preferred Vocoder - choice 7	OPUS

- Account 1
 - General Settings
 - Dialplan
 - Network Settings
 - SIP Settings
 - Audio Settings**
 - Call Settings
 - Intercom Settings
 - Feature Codes
- Account 2
- Account 3
- Account 4
- Account Swap

5. Go to **SETTINGS, Preferences** then **Date and Time**. Set **NTP Server** to **203.23.237.200**. **Timezone** should be set up depending on your service location and leave the other options as default. Click **Save and Apply**.

Settings

- General Settings
- Broadsoft
- External Service
- Call Features
- Call History
- Multicast Paging
- Outbound Notification
- Preferences
- Audio Control
- Date and Time**
- LCD Display
- LED Control
- Ringtone
- Programmable Keys
- Web Service
- XML Applications

Date and Time

NTP Server	203.23.237.200
Secondary NTP Server	
NTP Update Interval	1440
Allow DHCP Option 42 to override NTP server	<input type="radio"/> No <input checked="" type="radio"/> Yes
Time Zone	GMT+10:00 (Sydney, Melbourne, Canberra)
	<input checked="" type="checkbox"/> Allow DHCP Option 2 to Override Time Zone Setting
Self-Defined Time Zone	MTZ+6MDT+5,M4.1.0,1
Date Display Format	yyyy-mm-dd
Time Display Format	<input checked="" type="radio"/> 12 Hour <input type="radio"/> 24 Hour
Show Date On Status Bar	<input checked="" type="radio"/> No <input type="radio"/> Yes

- General Settings
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Save Save and Apply Reset

Online URL:

<https://articles.spintel.net.au/article/configuring-grandstream-gxp21xx-series.html>