

## **Grandstream HT502 Configuration Guide for FreePhoneLine**

### **Software Version: 1.0.12.1**

Official FPL guidelines you can find at: <http://support.freephoneline.ca/entries/23120323-VoIP-Unlock-Key-Credentials>

**All the settings were default on the device before configuration.**

#### **Step 1.**

Plug all the appropriate wires to your Grandstream HT502 device.

- Internet cable *[Note: Connect Ethernet cable to WAN port of your Grandstream HT502 device and another end to your Internet rack/router]*
- Phone line (attached to the phone) *[Note: Use Phone1 port]*
- Power

#### **Step 2.**

By default settings Grandstream HT502 WAN access is disabled.

You have to enable this setting before you access web-based utility.

From the phone attached to Grandstream HT502 device:

- Dial '\*\*\*' (to access IVR menu)
- Then dial '12' (to check your WAN Port Web Access status)
- Then press '9' (to toggle between enable/disable) *[Note: Your WAN Port Web Access should be enabled]*
- Hang up the phone

Now, you have to figure out IP address to access web-based utility. From your phone dial:

- '\*\*\*'
- Then dial '02'

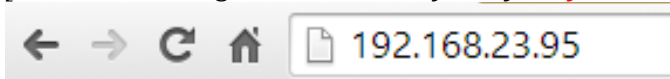
Write down your IP address.

#### **Step 3.**

On the PC/Mac connected to the same network as your Grandstream HT502 device, go to your browser (Internet Explorer; Chrome; Firefox; Opera; Safari, etc.).

In the URL bar put your IP address from Step 2.

*[Note: I am using 192.168.23.95 for my IP, your IP address might be different!]*



Web-based utility will appear.

Now you have to login.

Default **Password: admin**

 A screenshot of the "Grandstream Device Configuration" login page. The page has a yellow header with the title "Grandstream Device Configuration". Below the header is a yellow login area containing a "Password" label, a text input field with "admin" entered, and a "Login" button. Red circles and a line highlight the password field and the login button. The footer is a blue bar with the text "All Rights Reserved Grandstream Networks, Inc. 2006-2014".

Step 4.

Go to 'BASIC SETTINGS' tab and fill in the following settings:

**Time Zone:** [Choose appropriate time zone, depending where you are located]

**Grandstream Device Configuration**

**STATUS BASIC SETTINGS ADVANCED SETTINGS FXS PORT1 FXS PORT2**

End User Password:  (purposely not displayed for security protection)

Web Port:  (default for HTTP is 80)

Telnet Server: ☐ No ☒ Yes

IP Address: ☒ dynamically assigned via DHCP

DHCP hostname:  (optional)

DHCP vendor class ID:  (optional)

☐ use PPPoE

PPPoE account ID:

PPPoE password:

PPPoE Service Name:

Preferred DNS server:

☐ statically configured as:

IP Address:

Subnet Mask:

Default Router:

DNS Server 1:

DNS Server 2:

Time Zone:  ▼

Self-Defined Time Zone:  (For example: MTZ+6MDT+5,M4.1.0,M11.1.0)

Language:  ▼

**GMT-10:00 (US Hawaiian Time)**  
 GMT-09:00 (US Alaska Time)  
 GMT-08:00 (US Pacific Time, Los Angeles)  
 GMT-08:00 (Baja California)  
 GMT-07:00 (US Mountain Time, Denver)  
 GMT-07:00 (Mountain Time (Arizona, no DST))  
 GMT-07:00 (Chihuahua, La Paz, Mazatlan)  
 GMT-06:00 (Central Time)  
 GMT-06:00 (Central America)  
 GMT-06:00 (Guadalajara, Mexico City, Monterrey)  
**GMT-05:00 (Eastern Time)**  
 GMT-05:00 (Eastern Time without daylight saving)  
 GMT-04:30 (Caracas)  
 GMT-04:00 (Atlantic Time)  
 GMT-04:00 (Atlantic Time (New Brunswick))  
 GMT-03:30 (Newfoundland Time)  
 GMT-03:00 (Greenland)  
 GMT-03:00 (Brazil, Sao Paulo)  
 GMT-02:00 (Argentina)

**Update Apply Cancel Reboot**

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**Then click 'Apply' button at the bottom**

**Update Apply Cancel Reboot**

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After you click 'Apply' button, device should ask you to reboot. If so – click on 'Reboot' button to apply the changes you have made. If it doesn't – go back to 'BASIC SETTINGS' tab and click 'Reboot' button at the bottom. Wait while device is rebooting.

Your configuration changes have been saved.  
They will take effect on next reboot.

**Reboot**

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Step 5.

Go to 'FXS PORT 1' tab and change the following settings:

**Primary SIP Server:** *voip.freephoneline.ca* **OR** *voip2.freephoneline.ca* **[Note: For ROGERS Internet provider customers use *voip4.freephoneline.ca:6060*]**

**NAT Traversal:** *Keep-Alive*

**SIP User ID:** *[Your FPL number 1xxxxxxxxx]*

**Authenticate Password:** *[Your SIP password]*

**Name:** *[Your first and last name]*

**Outgoing Call without Registration:** *No*

**Use Random Port:** *Yes*

**Transfer on Conference Hangup:** *Yes*

**Grandstream Device Configuration**

**STATUS BASIC SETTINGS ADVANCED SETTINGS FXS PORT1 FXS PORT2**

Account Active: ☐ No ☒ Yes

Primary SIP Server:  (e.g., sip.mycompany.com, or IP address)

Failover SIP Server:  (Optional, used when primary server no response)

Prefer Primary SIP Server: ☒ No ☐ Yes (yes - will register to Primary Server if Failover registration expires)

Outbound Proxy:  (e.g., proxy.myprovider.com, or IP address, if any)

SIP Transport: ☒ UDP ☐ TCP ☐ TLS (default is UDP)

NAT Traversal: ☐ No ☒ Keep-Alive ☐ STUN ☐ UPnP

SIP User ID:  (the user part of an SIP address)

Authenticate ID:  (can be identical to or different from SIP User ID)

Authenticate Password:  (purposely not displayed for security protection)

Name:  (optional, e.g., John Doe)

DNS Mode: ☒ A Record ☐ SRV ☐ NAPTR/SRV ☐ Use Configured IP

Primary IP:

Backup IP1:

Backup IP2:

Tel URI:

SIP Registration: ☐ No ☒ Yes

Unregister On Reboot: ☒ No ☐ Yes

Outgoing Call without Registration: ☒ No ☐ Yes

Register Expiration:  (in minutes. default 1 hour, max 45 days)

Reregister before Expiration:  (in seconds. Default 0 second)

SIP Registration Failure Retry Wait Time:  (in seconds. Between 1-3600, default is 20)

Local SIP Port:  (default is 5060 for UDP and TCP; 5061 for TLS)

Local RTP Port:  (1024-65535, default 5004)

Use Random Port: ☐ No ☒ Yes

Refer-To Use Target Contact: ☒ No ☐ Yes

Transfer on Conference Hangup: ☐ No ☒ Yes

Disable Bellcore Style 3-Way Conference: ☒ No ☐ Yes (Using star code \*23 for 3-way conference)

**Allow Incoming SIP Messages from SIP Proxy Only:** *Yes*

**Preferred DTMF method: (in listing order)**

<b>Priority 1:</b>	<i>RFC2833</i>
<b>Priority 2:</b>	<i>In-audio</i>
<b>Priority 3:</b>	<i>SIP INFO</i>

**Enable Call Features:** *No*

Remove OBP from Route Header: ☒ No ☐ Yes

Support SIP Instance ID: ☐ No ☒ Yes

Validate Incoming SIP Message: ☒ No ☐ Yes

Check SIP User ID for incoming INVITE: ☒ No ☐ Yes (no direct IP calling if Yes)

Authenticate incoming INVITE: ☒ No ☐ Yes

Allow Incoming SIP Messages from SIP Proxy Only: ☐ No ☒ Yes (no direct IP calling if Yes)

Use Privacy Header: ☒ Default ☐ No ☐ Yes

Use P-Preferred-Identity Header: ☒ Default ☐ No ☐ Yes

SIP T1 Timeout: 0.5 sec ▼

SIP T2 Interval: 4 sec ▼

DTMF Payload Type: 101

Preferred DTMF method: (in listed order)  
 Priority 1: RFC2833 ▼  
 Priority 2: In-audio ▼  
 Priority 3: SIP INFO ▼

Disable DTMF Negotiation: ☒ No (negotiate with peer) ☐ Yes (use above DTMF order without negotiation)

Send Hook Flash Event: ☒ No ☐ Yes (Hook Flash will be sent as a DTMF event if set to Yes)

Enable Call Features: ☒ No ☐ Yes (if Yes, call features using star codes will be supported locally)

Offhook Auto-Dial:  (User ID/extension to dial automatically when offhook)

**Preferred Vocoder: (in listed order):**

<b>Choice 1:</b>	<i>PCMU</i>
<b>Choice 2:</b>	<i>G729</i>
<b>Choice 3:</b>	<i>PCMU</i>
<b>Choice 4:</b>	<i>PCMU</i>
<b>Choice 5:</b>	<i>PCMU</i>
<b>Choice 6:</b>	<i>PCMU</i>

Preferred Vocoder: (in listed order)  
 choice 1: PCMU ▼  
 choice 2: G729 ▼  
 choice 3: PCMU ▼  
 choice 4: PCMU ▼  
 choice 5: PCMU ▼  
 choice 6: PCMU ▼  
 choice 7: PCMU ▼  
 choice 8: PCMU ▼

**Then click 'Apply' button at the bottom**

Update Apply Cancel Reboot

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**The device might not ask you for reboot. In this case – after you applied changes, go back to 'FXS PORT 1' tab and click 'Reboot' at the bottom. Wait while device is rebooting.**

Step 6.

Go to 'FXS PORT 2' tab and change the following settings:

**Account Active:** *No*

The screenshot shows the 'Grandstream Device Configuration' interface. At the top, there are tabs: STATUS, BASIC SETTINGS, ADVANCED SETTINGS, FXS PORT1, and FXS PORT2. The 'FXS PORT2' tab is selected and highlighted with a red box and a red arrow labeled '1'. Below the tabs, the 'Account Active' setting is shown with two radio buttons: 'No' (selected) and 'Yes'. The 'No' radio button is highlighted with a red box and a red arrow labeled '2'. At the bottom of the configuration area, there are four buttons: 'Update', 'Apply', 'Cancel', and 'Reboot'. The 'Apply' button is highlighted with a red box and a red arrow labeled '3'. The footer of the interface reads 'All Rights Reserved Grandstream Networks, Inc. 2006-2014'.

**Then click 'Apply' button at the bottom**

**The device might not ask you for reboot. In this case – after you applied changes, go back to 'FXS PORT 2' tab and click 'Reboot' at the bottom. Wait while device is rebooting.**

Enjoy your free phone line! 😊