

# Grandstream Gateways & ATA's

HT-286, 502, 503, 701, 702, 704, GWX-4008 & 4004

## Configuration Guide





## Find the IP Address

### Quick Steps

1. Lift the handset of the phone connected to your ATA, Dial \*\*\* to initiate the IVR Menu
2. Wait to be instructed to enter your command.
3. Dial 02 and the IP address will be played to you.

## MANUAL CONFIGURATION

### Quick Steps

1. Find the IP address of the device and open a web browser to the IP address.
2. Login with the device admin password. Default factory password is admin

A screenshot of the Grandstream Device Configuration web interface. The page has a blue header with the text 'Grandstream Device Configuration'. Below the header is a yellow section containing a 'Password' label and a text input field. Underneath the input field is a 'Login' button. At the bottom of the page, there is a small copyright notice: 'All Rights Reserved Grandstream Networks, Inc. 2006-2011'.

3. Click on the “**Basic Settings**” option at the top.

Your telephones receive their time from the ATA device. Be sure you select the correct time zone below and enter NTP server value (in Advanced Settings):

Grandstream Device Configuration

STATUS
BASIC SETTINGS
ADVANCED SETTINGS
FXS PORT

**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:

1st Preferred DNS server:

2nd Preferred DNS server:

3rd Preferred DNS server:

4th Preferred DNS server:

statically configured as:

IP Address:

Subnet Mask:

Default Router:

DNS Server 1:

DNS Server 2:

**Time Zone:** GMT-05:00 (Eastern Time) ←

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

*Allow DHCP server to set Time Zone:*  No  Yes ←

**Language:**

**Reset Type:**

Click Apply.



4. Click on the “**Advanced Settings**” option at the top.

To prevent your ATA device from receiving direct IP calls (calls not originating through VBuzzer), set the following option to Yes:

Disable Direct IP Call = Yes

Your telephones receive their time from the ATA device. Be sure you set the correct time zone (in Basic Settings) and the below NTP server value:

NTP Server: ca.pool.ntp.org

Lock Keypad Update:  No  Yes (configuration update via keypad is disabled if set to Yes)  
Disable Voice Prompt:  No  Yes (voice prompt is disabled if set to Yes)  
Disable Direct IP Call:  No  Yes (direct IP call is disabled if set to Yes)  
NTP Server:  (URI or IP address)  
Allow DHCP option 42 to override NTP server:  No  Yes  
Syslog Server:   
Syslog Level:   
Send SIP Log:  No  Yes  
Download Device Configuration:   
Upload firmware:

Click Apply



5. Click on the “**FXS Port**” option at the top.

Primary SIP Server = sip1-on.vbuzzer.com  
SIP User ID = VBuzzer Account ID (not your username)  
Authenticate ID = VBuzzer Account ID (not your username)  
Authenticate Password = VBuzzer Account Password (the long one)

**Grandstream Device Configuration**

**STATUS    BASIC SETTINGS    ADVANCED SETTINGS    FXS PORT**

**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)

**Allow DHCP Option 120( override SIP server ):**  No  Yes

**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

**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)



Although port 5060 (the default SIP port) should work fine for most... to avoid issues with some routers and SIP ALG, we recommend using the following port values:

Local SIP port: 25060

Local RTP port: 25004

To prevent your ATA device from receiving direct IP calls (calls not originating through VoIP Much), set the following option to Yes:

Allow Incoming SIP Messages from SIP Proxy Only = Yes

The screenshot shows a configuration page for SIP settings. The following settings are highlighted with red boxes and arrows:

- Local SIP port:** 25060 (default: 5060 for UDP and TCP; 5061 for TLS)
- Local RTP port:** 25004 (even number between 1024-65535, default 5004)
- Allow Incoming SIP Messages from SIP Proxy Only:** Yes (no direct IP calling if Yes)

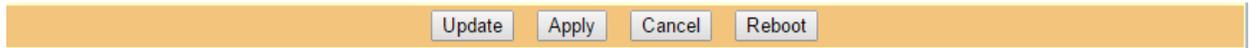
Other visible settings include:

- SIP Registration Failure Retry Wait Time: 20 (in seconds. Between 1-3600, default is 20)
- Layer 3 QoS: 26 (SIP DSCP (Diff-Serv value in decimal, default 24)), 46 (RTP DSCP (Diff-Serv value in decimal, default 46))
- Use Random SIP Port: No
- Use Random RTP Port: No
- Refer-To Use Target Contact: No
- Transfer on Conference Hangup: No
- Disable Bellcore Style 3-Way Conference: No
- Remove OBP from Route Header: No
- Support SIP Instance ID: No
- Validate Incoming SIP Message: No
- Check SIP User ID for incoming INVITE: No
- Authenticate incoming INVITE: No
- Use Privacy Header: Default
- Use P-Preferred-Identity Header: Default
- SIP REGISTER Contact Header Uses: LAN Address
- SIP T1 Timeout: 0.5 sec
- SIP T2 Interval: 4 sec
- SIP Timer D: 0 (0 - 64 seconds. Default 0)
- DTMF Payload Type: 101
- Preferred DTMF method: Priority 1: RFC2833, Priority 2: SIP INFO, Priority 3: In-audio
- Disable DTMF Negotiation: No (negotiate with peer)

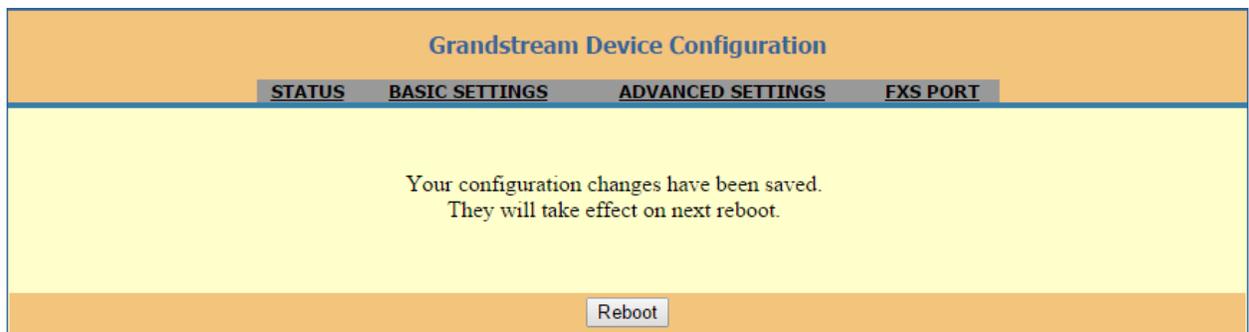


The remaining settings on this page remain at their default values.

Click Apply.



## 6. Click Reboot



Your ATA will reboot and register to the VBuzzer network.

Reboot time can be approx. 1 to 2 minutes.