



**Isotropic™**

**PROGRAMMING THE  
GRANDSTREAM ATA**

# PROGRAMMING THE GRANDSTREAM ATA

- 1 Connect power to the ATA. Connect an Ethernet cable from the **Internet port** (the port with the globe symbol) to a network device (switch or router) behind the iDirect modem. The Internet light will turn blue when the ATA has been connected properly.



(Your device may have more Phone ports (the green ports) than the device shown above)

- 2 Connect an Ethernet cable from the **Ethernet port** (the port with the three connected squares symbol) to your PC. Make sure that your PC is set to automatically receive an IP address.



(Your device may have more Phone ports (the green ports) than the device shown above)

- 3 Log in to the ATA by typing **192.168.2.1** into the address bar of your internet browser. Enter the default credentials (shown below) and click on **Log In**.

Username: admin

Password: admin

A screenshot of the Grandstream Device Configuration web interface. The title bar is orange and reads 'Grandstream Device Configuration'. Below this is a yellow background area containing two input fields: 'Username' with the text 'admin' and 'Password' which is empty. Below the input fields is a 'Login' button. At the bottom of the page, there is a blue footer with the text 'All Rights Reserved Grandstream Networks, Inc. 2006-2020'.

4 Click on the **ADVANCED SETTINGS** tab.



**A** In the **New Admin Password** enter the new password: C0nn3cT1ngTh3PI8n3t

**B** In the **Confirm New Admin Password** enter the new password: C0nn3cT1ngTh3PI8n3t

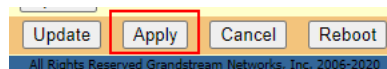
**C** Set the **Disable User Level Web Access** to **Yes**.

**D** Set the **Disable Viewer Level Web Access** to **Yes**.

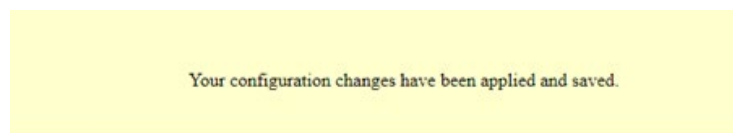
The image shows a configuration form with the following fields and options:

- New Admin Password: [text input] (purposely not displayed for security protection)
- Confirm Admin Password: [text input]
- Disable User Level Web Access:  No  Yes
- Disable Viewer Level Web Access:  No  Yes

**E** At the bottom of the page click **Apply**.



**F** You will see a message confirming the changes



5 Click on the **Profile 1** tab.



## A Set the **Primary Sip Server** to **162.255.244.66**.

**Profile Active:**  No  Yes  
**Primary SIP Server:**  (e.g., sip.mycompany.com, or IP address)

## B Set the **SIP Registration Failure Retry Wait Time** to **30**

**Register Expiration:**  (in minutes, default 1 hour, max 45 days)  
**Reregister before Expiration:**  (0-64800, Default 0 second)  
**SIP Registration Failure Retry Wait Time:**  (in seconds, Between 1-3600, default is 20)  
**SIP Registration Failure Retry Wait Time upon 403 Forbidden:**  (in seconds, Between 0-3600, default is 1200, 0 means stop retry registration upon 403 response.)  
**Enable SIP OPTIONS/NOTIFY Keep Alive:**  No  OPTIONS  NOTIFY

## C Set **Check SIP User ID for incoming INVITE** to **Yes**

## D Set **Allow Incoming SIP Messages from SIP Proxy Only** to **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  
**Authenticate server certificate domain:**  No  Yes  
**Authenticate server certificate chain:**  No  Yes  
**Allow Incoming SIP Messages from SIP Proxy Only:**  No  Yes (no direct IP calling if Yes)  
**Use Privacy Header:**  Default  No  Yes

## E Set the **SIP T1 Timeout** to **2 sec**

## F Set the **Preferred DTMF method (in listed order)** to:

Priority 1: SIP INFO

Priority 2: SIP INFO

Priority 3: SIP INFO

**Allow SIP Factory Reset:**  No  Yes  
**SIP T1 Timeout:**   
**SIP T2 Interval:**   
**SIP Timer D:**  (0 - 64 seconds, Default 0)  
**DTMF Payload Type:**   
**Preferred DTMF method (in listed order):**  
Priority 1:   
Priority 2:   
Priority 3:   
**Inband DTMF Duration:** In 40-2000 milliseconds range, duration:  inter-duration:

**G** Set all choices for **Preferred Vocoder (in listed order)** to **G729**

Use First Matching Vocoder in 200K SDP:  No  Yes

Preferred Vocoder (in listed order):

- choice 1: G729
- choice 2: G729
- choice 3: G729
- choice 4: G729
- choice 5: G729
- choice 6: G729
- choice 7: G729
- choice 8: G729

Voice Frames per TX: 2

G723 Rate:  6.3kbps encoding rate  5.3kbps encoding rate

**H** At the bottom of the page click **Apply**

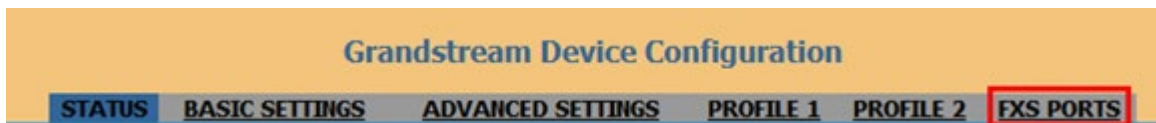
Update Apply Cancel Reboot

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**I** You will see a message confirming the changes

Your configuration changes have been applied and saved.

**6** Click on the **FXS PORTS** tab.



**A** Under **User Settings**:

- i. For **SIP User ID**, enter the extension number (see below)
- ii. For **Authenticate ID**, enter the extension number (see below)
- iii. For **Password**, enter the extension number (see below)
- iv. Be sure the **Profile ID** is set to **Profile 1**

User Settings

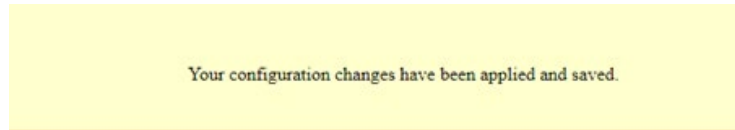
Port	SIP User ID	Authenticate ID	Password	Name	Profile ID	Hunting Group	Request URI	Routing ID	Enable Port
1	0000	0000	*****		Profile 1	None			<input type="radio"/> No <input checked="" type="radio"/> Yes
2	0000	0000	*****		Profile 1	None			<input type="radio"/> No <input checked="" type="radio"/> Yes

(The User ID show in the image above is a placeholder. Please use the extension and password in the table below)

**B** At the bottom of the page click **Apply**



**C** You will see a message confirming the changes



	<b>Extension</b>	<b>Password</b>	<b>Phone Number</b>
<b>Line 1</b>			
<b>Line 2</b>			