

Grandstream 4024 FXS Quick Guide

The Grandstream 4024 FXS Gateway allows you to integrate up to 24 Analog Stations to the PBX over SIP. Configuration of the Grandstream 4024 FXS Gateway is as simple as following the steps below.

1. Create an Extension in the PBX as you would normally.
2. Copy the **SIP password** and note the **Extension Number**, as they will be used later.
3. Connect the Grandstream 4024 to the network via the **LAN** port.
4. Power the Grandstream 4024 with the power supply provided.
5. Discern the IP address of the Grandstream 4024.
 - a. Connect an analog phone to any FXS port on the Grandstream 4024.
 - b. Dial * * * from the analog phone.
 - c. Enter **002** in the menu, and the Grandstream 4024 will tell you its IP address.
6. Log into the Grandstream 4024 GUI.
 - a. Enter the **IP address** for the device in your web browser.
 - b. Enter the password **<admin>** to begin configuring the Grandstream 4024.
7. Configure the Server.
 - a. Navigate to **Profile 1**.
 - b. Enter the **IP address** of the PBX under **Primary SIP Server**.
 - c. Click the **Update** button at the bottom of the page.

Grandstream Device Configuration

STATUS BASIC SETTINGS ADVANCED SETTINGS PROFILE 1 PROFILE 2 PROFILE 3 FXS PORTS

Profile Active: No Yes

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

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

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

SIP transport: UDP TCP TLS (default is UDP)

NAT Traversal (STUN): No No, but send keep-alive Yes

8. Configure DTMF Method.
 - a. Navigate to **Profile 1**.
 - b. Set **Preferred DTMF: Priority 1 to SIP Info** (assuming the extension created in the PBX is set to Info, otherwise ensure this field matches what is set for the extension).
 - c. Click the **Update** button at the bottom of the page.

Check SIP User ID for incoming INVITE: No Yes (no direct IP calling if Yes)
 Allow Incoming SIP Messages from SIP Proxy Only: No Yes (no direct IP calling if Yes)
 SIP T1 Timeout: 0.5 sec
 SIP T2 Interval: 4 sec
 DTMF Payload Type: 101
 Preferred DTMF method: (in listed order) Priority 1: SIP-INFO
 Priority 2: In-audio
 Priority 3: In-audio

9. Configure the Extensions.
 - a. Navigate to **FXS Ports**.
 - b. For each extension you will use one port, and enter the following data which was noted or copied under step 2.
 - i. **SIP User ID** = <extnum>
 - ii. **Authenticate ID** = <extnum>
 - iii. **Password** = <SIP Password>
 - c. Click the **Update** button at the bottom of the page.

Grandstream Device Configuration

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User Settings

FXS Port	SIP User ID	Authenticate ID	Password	Name	Profile ID	Hunting Group
1	8012	8012	*****		Profile 1	None
2					Profile 1	None
3					Profile 1	None
4					Profile 1	None
5					Profile 1	None

10. Click the **Reboot** button at the bottom of the page.

Once the Grandstream 4024 has rebooted, any configured extensions should be registered and functional. No other fields NEED to be changed for regular use.

If the Grandstream 4024 is intended for use with a FAX Machine, the following change should be made.

1. Navigate to **Profile 1**.
2. Set **Jitter Buffer Type** to **Fixed**.
3. Click the **Update** button at the bottom of the page.
4. Click the **Reboot** button at the bottom of the page.

VAD: No Yes
 Symmetric RTP: No Yes
 Fax mode: T.38 (Auto Detect) Pass-Through
 Fax tone detection mode: Caller Callee Caller or Callee
 Jitter buffer type: Fixed Adaptive
 Jitter buffer length: Low Medium High