

OVERVIEW & REQUIREMENTS

This guide walks through configuring the **Grandstream GXP2160** IP phone to register with **the PBX platform 3.1** — from installation through manual configuration and auto provisioning (DHCP, TFTP, HTTP/HTTPS).



Grandstream GXP2160 IP phone

BEFORE YOU BEGIN

- **Device model** — Confirm the exact model on the back of the device
- **Firmware** — Version (check web interface)
- **DHCP** — A fully configured, operational DHCP server
- **PBX version** — Release 3.1

CHECK DEVICE FIRMWARE

- 1 Browse to the device's IP, e.g. `http://192.168.1.22`
- 2 Log in (factory default: `admin / admin`)
- 3 The firmware version is displayed on the status page

FIND DEVICE IP ADDRESS

- 1 Press the **Home** button on the phone
- 2 Go to **Status** > **Network status** > **Ethernet** — the IP is shown under **IPv4**

CHECK PBX VERSION

- 1 Log in to the PBX platform, navigate to **Settings > About**

```
Edition: Business, Release: 3.1.0 (387597b7),  
Running: 16.16.1-gc-c0d40968, Proxy v3.1  
(62b7bcd), API: 6
```

INSTALLATION

OPTION A — POWER ADAPTER

- 1 Connect the DC plug on the power adapter to the DC port on the device, and the other end into an electrical outlet
- 2 Connect an Ethernet cable between the **Internet** port on the device and a network port on your router or switch

NOTE: If using PoE, you do not need the AC adapter. Ensure the Ethernet cable and router/switch are PoE compliant.

OPTION B — POWER OVER ETHERNET (POE)

- 1 Connect an Ethernet cable between the **Internet** port on the device and an available port on a PoE-compliant router or switch

RESET TO FACTORY SETTINGS

Not required for brand-new devices — but a **must** for any device previously used.

- 1 Browse to the device's IP, e.g. <http://192.168.1.22>
- 2 Log in (factory default: admin / admin)
- 3 Click **Maintenance** in the top navigation menu
- 4 Click **Factory Reset** in the left navigation menu
- 5 Click **Reset** in the Configure WEB UI section — the device resets and reboots

WARNING: Do not unplug or remove power while the device is updating firmware or configuration.

MANUAL CONFIGURATION — UAD SETTINGS

- 1 Browse to the PBX platform, e.g. <http://192.168.1.10>, and log in
- 2 Navigate to **Settings > UAD**
- 3 Click the **Edit** icon for the Grandstream device
- 4 Set **Status** = **Active**, **Auto provisioning** = **No**, **DHCP** = **Yes**
- 5 Click **Save**

UAD settings — manual configuration

MANUAL CONFIGURATION — EXTENSION & REGISTRATION

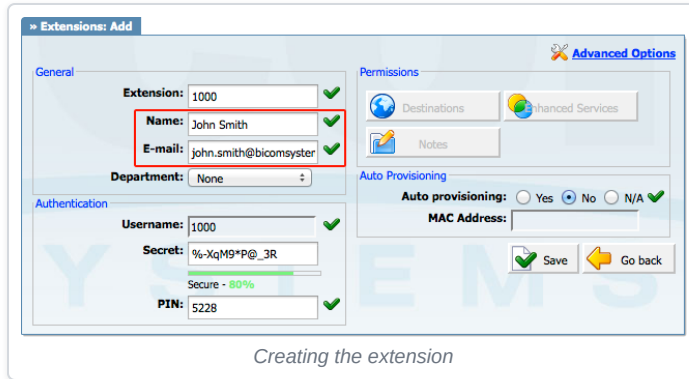
CREATE THE EXTENSION

- 1 **Extensions** > **Add Extension** > UAD = Grandstream GXP2160, Location = Local or Remote > **Next step**

REQUIRED EXTENSION FIELDS

- Name — e.g. John Smith
- E-mail — e.g. john.smith@yourdomain.com
- Department — e.g. Sales

Click **Save**.



Creating the extension

REGISTER THE PHONE

- 1 Browse to the phone's IP, log in (username: admin , password: shown on back of phone)
- 2 Click **Accounts** tab > **Account 1** > **General Settings**
- 3 **Account Active** = Yes
- 4 **Account Name** — the Extension name, e.g. John
- 5 **SIP Server** — PBX hostname or IP, e.g. voip.yourdomain.com or 192.168.1.10
- 6 **SIP User ID** — the Extension number, e.g. 1003
- 7 **Authenticate Password** — the extension Secret, e.g. _%Z4M3*Ts9y7
- 8 Click **Save and Apply**

VERIFY: Dial *123 to confirm registration.

AUTO PROVISIONING

1 UAD SETTINGS

- 1 Log in to the PBX platform, navigate to **Settings > UAD**
- 2 Click **Edit** for the Grandstream device, set **Status** = **Active**, **Auto provisioning** = **Yes**, **DHCP** = **Yes**, click **Save**

UAD settings — auto provisioning

2 CREATE THE EXTENSION

- 1 **Extensions > Add Extension > UAD = Grandstream GXP2160**, Location = Local or Remote > **Next step**

REQUIRED EXTENSION FIELDS

- Name — e.g. John Smith
- E-mail — e.g. john.smith@yourdomain.com
- Auto Provisioning — set to **Yes**
- MAC Address — from the back of the device, e.g. 000B82123456

Click **Save**.

3A REGISTER VIA DHCP (OPTION 66)

- 1 Configure your DHCP router to use **option 66**. On first boot or reboot, the device picks up its configuration automatically. Dial ***123** to verify.

3B REGISTER VIA TFTP, HTTP, OR HTTPS

- 1 Browse to the device's IP, log in (**admin / admin**)
- 2 Click **Maintenance > Provisioning**
- 3 Enter auto-provisioning username and password in the **HTTP/HTTPS User Name** and **HTTP/HTTPS Password** fields
- 4 In the **Provisioning via** dropdown, select TFTP, HTTP, or HTTPS
- 5 In the **Config Server Path** field, enter the appropriate address (see formats below)
- 6 Click **Save and Apply**, then click **Reboot** in the top right
- 7 Wait for the configuration to update. Dial ***123** to verify.

CONFIG SERVER PATH FORMATS

- **HTTP / HTTPS** — **abc.yourdomain.com/prov** or **192.168.1.10/prov**
- **TFTP** — **voip.yourdomain.com** or **192.168.1.10**

Do **not** include the protocol prefix (**http://**, **tftp://**) — the **Provisioning via** dropdown handles this.