

INTRODUCTION

This configuration guide explains how to configure the **Snom PA1+** SIP paging amplifier to register and operate with **Your PBX Platform 6.7.3**. It covers physical installation, manual configuration, and auto provisioning.

FIRMWARE 10.1.137.15**PBX 6.7.3****POE READY**

REQUIREMENTS

Identifying the Device Model

Check the label on the **back of the device** for the exact model. Different Snom models can have significantly different requirements and installation procedures — confirm you are working with a **PA1+** before proceeding.

Device Firmware

- Ensure the device is loaded with firmware version **10.1.137.15**.



DHCP Server

A fully configured and operational DHCP server is required on the network.

PBX Version

Your PBX Platform version **6.7.3**. To verify the version:

- Log in to the PBX web administration interface.
- Navigate to **Settings > About**.
- The **Release** value on the About page denotes the current PBX version.

INSTALLATION

This section describes how to connect the device to power and the data network, and how to restore factory settings.

Power Adapter

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

Power over Ethernet (PoE)

- Using a standard Ethernet cable, the device can be powered directly from a PoE-compliant router or switch — connect the cable between the device's **Internet** port and an available in-line power port.

NOTE: When using PoE, the AC adapter is not required. Verify that the Ethernet cable and the router/switch are PoE compliant.

Find the Device's IP Address

- Press the **IP/Reset** button on the device.
- The IP address will be **recited aloud** through the speaker — make sure to write it down.

Reset to Factory Settings

Not required for brand-new devices — **mandatory** for any previously used device.

- Press and hold the **IP/Reset** button.
- Release the button after **10 seconds**.
- Allow time for the device to reboot.

NOTE: Do not unplug or remove power from the device while it is updating firmware or configuration.

MANUAL CONFIGURATION

UAD Settings

#	Code	Pin
1	G.722	N/A
2	G.711 ulaw	N/A
3	G.711 alaw	N/A
4	G.729	N/A
5	GSM	N/A
6	-	N/A
7	-	N/A
8	-	N/A
9	-	N/A
10	-	N/A

- Browse to the PBX IP address (example: **http://192.168.1.10**) and log in with your e-mail address and password.
- Navigate to **Settings > UAD** and confirm the Snom device is enabled — click the **Edit** icon for the Snom device to check.
- Set **Status = Active**, **Auto provisioning = No**, **DHCP = Yes**, then click **Save**.

Creating an Extension

- Navigate to **Extensions** and click **Add Extension**.
- Select the Snom device from the **UAD** select box.
- Select Location: **Local** (extensions registered on the LAN) or **Remote** (extensions registered from remote networks, WAN, Internet, etc.), then click **Next step**.

REQUIRED FIELDS

Name

Name for the new extension. Example: **John Smith**

E-mail

Address that receives all system notifications for this extension. Example: **john.smith@yourdomain.com**

REGISTERING THE DEVICE — HOSTNAME OR IP ADDRESS

- Browse to the device IP address (example: **http://192.168.1.22**) to access the device's web administration interface.
- Click **Identity 1** in the left navigation menu and enter the following details.

REQUIRED FIELDS

Identity Active

Make sure the **On** radio box is selected.

Display name

PBX extension name. Example: **John**

Account

Usually the same number as the **Authentication Username**.

Password

The Secret of the extension, as received in the e-mail associated with the extension. Example: **_%Z4M3*Ts9y7**.

A password is generated automatically for each newly created extension.

Registrar

Hostname or IP address of the PBX. Example: **pbx.yourdomain.com** or **192.168.1.10**

Authentication Username

PBX extension number. Example: **103**

Click the **Apply** button, then allow time for the device to reboot.

VERIFY: If everything is configured as described, the device is now registered. Dial ***123** to verify registration.

AUTO PROVISIONING

UAD Settings

- Log in to the PBX web administration interface and navigate to **Settings > UAD**.
- Confirm the Snom device is enabled, then set **Status = Active**, **Auto provisioning = Yes**, **DHCP = Yes**, and click **Save**.

Creating an Extension

- Navigate to **Extensions > Add Extension**, select the Snom device from the **UAD** box, choose **Local** or **Remote**, and click **Next step**.

REQUIRED FIELDS

Name

Example: **John Smith**

E-mail

Receives all system notifications. Example: **john.smith@yourdomain.com**

Auto Provisioning

Set to **Yes**.

MAC Address

Snom device MAC address, found on the back of the device. Example: **001565FF1536**

Click **Save** when finished.

REGISTERING THE DEVICE — DHCP

- Ensure the DHCP server is configured to use **option 66** to automatically instruct devices with the auto provisioning URL. Refer to your router documentation or network administrator.
- Auto provisioning starts during the device's first boot or a user-initiated reboot — the DHCP server directs the device to the correct configuration file. Dial ***123** to verify registration.

REGISTERING THE DEVICE — TFTP OR HTTP

- Browse to the device IP address (e.g. **http://192.168.1.22**).
- Click **Advanced** in the left navigation menu.
- Choose the server type you intend to use: **HTTP** or **Trivial FTP**.

NOTE: HTTP is the recommended method.

HTTP

Click the **QoS/Security** tab in the top navigation menu, enter your Auto Provisioning username and password into the **User** and **Password** fields under **HTTP Client**, and click **Apply**. Then click the **Update** tab and enter **http://** followed by the hostname or IP address, followed by **/prov/snomp1p-{mac}.htm**:

Hostname example: **http://pbx.yourdomain.com/prov/snomp1p-{mac}.htm**

IP address example: **http://192.168.1.10/prov/snomp1p-{mac}.htm**

Click the **Apply** button.

TFTP

Enter **tftp://** followed by the hostname or IP address, followed by **/snomp1p-{mac}.htm**:

Hostname example: **tftp://pbx.yourdomain.com/snomp1p-{mac}.htm**

IP address example: **tftp://192.168.1.10/snomp1p-{mac}.htm**

Click the **Apply** button.

- Click the **Reboot** button, then click **Yes** in the pop-up window to confirm and reboot the device.
- Wait a few seconds for the configuration to update. Do not power off the device.
- Enter ****##** to reboot again — auto provisioning starts during the device's reboot, and the device picks up its configuration file from the PBX.

VERIFY: Dial ***123** to verify registration.

SPEAKERPHONE PAGING

To use the Speakerphone Page option, enable the **Speakerphone Page** service under **Enhanced Services** on the PBX extension. The Snom PA1+ also requires some manual configuration for Speakerphone Paging to work.

Device Settings — Behavior

- In the device web interface, go to **Advanced > Behavior** and set:

Enable Intercom

Set to **On**.

Type of Intercom Answering

Set to **Handsfree**.

'Answer after' Policy

Set to **Always**.

Active-Call Handling

- If there may already be an active call on the device, go to **Identity > SIP** in the device web interface and set **Call Waiting Indication** = **On**.

Auto-Answer Delay (Optional)

- To set a delay on the auto answer when using Speakerphone Page, first **disable** the auto answer option on the PA1+ device under **Identity > SIP**.
- Then, on the PBX extension, add the following to the **Custom SIP Header** field to adjust the auto-answer delay by a couple of seconds:

```
Alert-Info: sip:127.0.0.1;info=alert-autoanswer;delay=0
```