

OVERVIEW & REQUIREMENTS

This guide walks through configuring the **Fanvil X4U** IP phone to register with **the PBX platform v5.3.9** — from installation through manual configuration, auto provisioning (DHCP, TFTP, HTTP/HTTPS), and BLF setup.



Fanvil X4U IP phone

BEFORE YOU BEGIN

- **Phone model** — Confirm the exact model on the back of the phone
- **Firmware** — Check via the phone's web interface status page
- **DHCP** — A fully configured, operational DHCP server
- **PBX version** — Release **5.3.9**

CHECK PHONE FIRMWARE

- 1 Browse to the phone'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 PHONE IP ADDRESS

- 1 On the phone display, navigate to **Menu** > **Status**
- 2 The IP address is shown on the screen

CHECK PBX VERSION

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

```
Edition: Business, Release: 5.3.9 (387597b7),  
Running: 16.16.1-gc-c0d40968, Proxy v5.3.9  
(62b7bcd), API: 6
```

INSTALLATION

OPTION A — POWER ADAPTER

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

RESET TO FACTORY SETTINGS

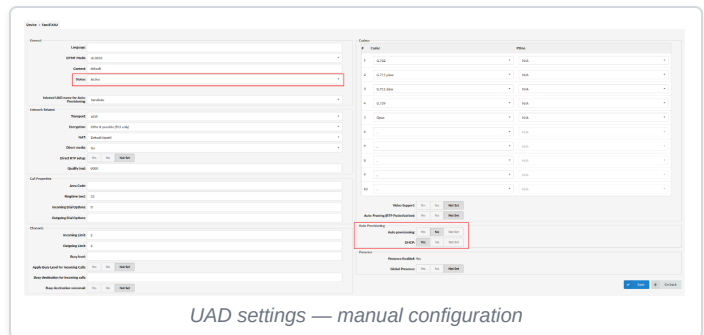
Not required for brand-new phones — but a **must** for any phone previously used.

- 1 Long-press the phone's reset button (pinhole on the back), or use the web interface factory reset option
- 2 Allow time for the phone to reboot

WARNING: Do not unplug or remove power while the phone 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 Fanvil X4U
- 4 Set **Status** = **Active**, **Auto provisioning** = **No**, **DHCP** = **Yes**
- 5 Click **Save**



MANUAL CONFIGURATION — EXTENSION & REGISTRATION

CREATE THE EXTENSION

- 1 **Extensions** > **Add Extension** > UAD = Fanvil X4U,
Location = Local or Remote > **Next step**

REQUIRED EXTENSION FIELDS

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

Click **Save**.

Creating the extension

REGISTER THE PHONE

- 1 Browse to the phone's IP, log in (`admin / admin`)
- 2 Click **Line** in the left navigation menu
- 3 **Username** — the Extension number, e.g. `1003`
- 4 **Authentication Name** — usually the same as the Extension number
- 5 **Authentication Password** — the extension Secret, e.g. `_%Z4M3*Ts9y7`
- 6 **Activate** — check the box
- 7 **SIP Proxy Server Address** — PBX hostname or IP, e.g. `voip.yourdomain.com` or `192.168.1.10`
- 8 Click **Apply**. Dial ***123** to verify.

AUTO PROVISIONING

1 UAD SETTINGS

- 1 Log in to the PBX platform, navigate to **Settings > UAD**
- 2 Click **Edit** for the Fanvil X4U, set **Status** = **Active**, **Auto provisioning** = **Yes**, **DHCP** = **Yes**, click **Save**

UAD settings — auto provisioning

2 CREATE THE EXTENSION

- 1 **Extensions > Add Extension > UAD = Fanvil X4U**, 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 phone

Click **Save**.

Creating the extension with auto provisioning

3A REGISTER VIA DHCP (OPTION 66)

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

3B REGISTER VIA TFTP, HTTP, OR HTTPS

- 1 Browse to the phone's IP, log in (**admin / admin**)
- 2 Click **Auto Provision** in the navigation tab
- 3 Enter auto-provisioning credentials in **Authentication Name** and **Authentication Password**
- 4 Make sure **Download CommonConfig enabled** is **NOT** selected
- 5 Click **Static Provisioning Server**
- 6 Select **Protocol Type**: HTTP, HTTPS, or Trivial FTP (HTTP recommended)
- 7 Enter the server address (see formats below)
- 8 Set **Update Mode** to **Update After Reboot**
- 9 Click **Apply**, then reboot the phone
- 10 Wait for configuration to update. Dial ***123** to verify.

SERVER ADDRESS 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 — the **Protocol Type** dropdown handles this.

BLF CONFIGURATION

EXTENSION SETTINGS (PBX SIDE)

- 1 Log in to the PBX platform
- 2 On the **Extensions** page, click the **Edit** icon for the extension
- 3 Click **Advanced Options**
- 4 Under **Auto Provisioning** and **Presence**: set both to **Yes**, then **Save**
- 5 Click **Enhanced Services**
- 6 Check **Directory / BLF List** and click **Save**
- 7 Click **Directory / BLF List** **Edit**
- 8 Enter the user extension number and check the **BLF** box
- 9 Click **Save**

ADDITIONAL CONFIGURATION TEMPLATE

To push extra UAD configuration to the X4U, add fields to the **User Agent General Auto Provisioning Template** under **Settings > UAD > Fanvil X4U** — or add them directly to a single extension in its **UAD Auto Provisioning Template** section.

PROVISIONING SUMMARY

After successful registration via any method, dial ***123** to verify. If registration fails:

- Verify the UAD is **Active** with the correct provisioning setting
- For auto provisioning: confirm the **MAC address** matches
- Confirm the phone can reach the PBX on the network
- Ensure **Download CommonConfig enabled** is unchecked