

OVERVIEW & REQUIREMENTS

This guide covers configuring the **Fanvil X5U-V2** IP phone to register with the PBX **v6.7.8** and **v7.2** — by manual configuration or by auto provisioning.

Identify Your Phone Model

Check the label on the **back of the phone** for the exact model. Different models can have significantly different requirements and setup procedures — confirming the model before you start avoids failed registrations.

Phone Firmware

The phone must be running firmware **2.12.16.17**. To check the version:

- 1 Browse to the phone's IP address (e.g. `http://192.168.1.22`).
- 2 Log in — factory defaults are username **admin**, password **admin**.

The firmware version is displayed in the phone's web administration interface.

DHCP Server

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



CHECK YOUR PBX VERSION

Log in to the PBX and navigate to **Settings > About**. The top of the page shows a code similar to:

`Edition: Multi-Tenant Release: 7.2 Running: 18.15.0-gc-ab72ab93, Proxy v7.1.0 (2a5ca81), API: 6`

Release denotes the current version of your PBX. This guide targets release **7.2**.

VERIFY: After any registration method in this guide, dial ***123** from the phone to confirm it is registered.

INSTALLATION

Connect the phone to power and the data network, find its IP address, then apply factory settings if the phone has been used before.

Power Adapter

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

Power over Ethernet (PoE)

- Using a regular Ethernet cable, the phone can be powered directly from a **PoE-compliant** router or switch.
- Connect the Ethernet cable between the **Internet** port on the phone and an available port on the in-line power router or switch.

NOTE: When using PoE, do not connect the AC adapter. Make sure the Ethernet cable and the router or switch are PoE compliant.

Find the Phone's IP Address

- 1 Press the **Down** navigation key.

The IP address is shown at the top of the display.

RESET TO FACTORY SETTINGS

Not required for brand-new out-of-the-box phones — but a **must** if the phone has already been used. On the X5U-V2 this is done from the web interface:

- 1 Open a browser and enter the phone's IP address to reach the web administration login screen. Example: `http://192.168.1.22`
- 2 Log in — factory defaults are username **admin**, password **admin**.
- 3 Click the **Configurations** tab.
- 4 Click the **Reset** button. The phone resets to factory settings and reboots.
- 5 Wait for the device to finish rebooting.

NOTE: Do not unplug or remove power from the phone while it is updating firmware and configurations.

MANUAL CONFIGURATION — UAD & EXTENSION

Set the UAD, create an extension on the PBX, then register the phone (next page).

Log In to the Web Interface

- Open a browser and enter the PBX IP address to reach the administration login screen. Example: `http://192.168.1.10`
- Log in with your **e-mail address** and **password**.

UAD Settings

- 1 Navigate to **Settings** > **UAD**.
- 2 Make sure the Fanvil UAD is enabled — click the **edit** icon for your phone to check.
- 3 Set **Status: Active**, **Auto provisioning: No**, **DHCP: Yes**.
- 4 Click **Save**.

Create the Extension

- 1 Navigate to **Extensions** and click **Add Extension**.
- 2 Select the Fanvil phone model from the **UAD** select box.
- 3 Select **Location: Local** (registered on the LAN) or **Remote** (registered from remote networks, WAN, Internet).
- 4 Click **Next step**.

REQUIRED FIELDS

- **Name** — a name for the extension. Example: **John Smith**.
- **E-mail** — the address associated with this extension; it receives all system notification messages. Example: `john.smith@yourdomain.com`
- **Department** — the department the extension belongs to. Example: **Sales**.

Click **Save**. The extension number and secret are sent to this e-mail address.



REGISTERING THE PHONE — HOSTNAME OR IP ADDRESS

Registration is configured from the phone's web administration interface.

Open the Line Settings

- 1 Browse to the phone's IP (e.g. `http://192.168.1.22`) and log in — factory defaults are username **admin**, password **admin**.
- 2 Click the **Line** link in the left-hand navigation menu.
- 3 Enter or set the fields in the table, then click **Apply**.

VERIFY: If everything is set as described, the phone registers to the PBX. Dial ***123** to confirm registration.

LINE FIELD	VALUE
Username	The PBX extension number. Example: 1003
Authentication Name	Usually the same number as the Phone Number.
Authentication Password	The extension secret from the extension's e-mail (e.g. <code>_%Z4M3*Ts9y7</code>) — generated automatically for each new extension.
Activate	Make sure the Activate check box is selected.
SIP Proxy Server Address	Hostname or IP of the PBX — e.g. <code>voip.yourdomain.com</code> or <code>192.168.1.10</code>

AUTO PROVISIONING

UAD Settings

- 1 Log in to the PBX web interface (e.g. `http://192.168.1.10`).
- 2 Navigate to **Settings** > **UAD** and click the **edit** icon for the Fanvil phone.
- 3 Set **Status: Active**, **Auto provisioning: Yes**, **DHCP: Yes**.
- 4 Click **Save**.

Create the Extension

- 1 **Extensions** > **Add Extension**; select the Fanvil model from **UAD**, choose **Local** or **Remote**, click **Next step**.
 - **Name** — e.g. John Smith.
 - **E-mail** — e.g. `john.smith@yourdomain.com`
 - **Auto Provisioning** — set to **Yes**.
 - **MAC Address** — e.g. **0C383E123456** (on the back of the phone).
- Click **Save**.

TFTP, HTTP & HTTPS

- 1 Browse to the phone's IP (e.g. `http://192.168.1.22`). Enter the username and password and press **Confirm** — factory defaults are username **admin**, password **admin**.
- 2 Click **Auto Provision** in the navigation tab.
- 3 Enter the **Auto Provisioning** username and password into the **Authentication Name** and **Authentication Password** fields.
- 4 Make sure the **Download CommonConfig enabled** check box is **NOT** selected.
- 5 Click **Static Provisioning Server** and choose the **Protocol Type: HTTP** or **Trivial FTP** — **HTTP is recommended**.
- 6 Enter the server address (see table). For HTTP, use `http://` plus the hostname or IP followed by `/prov`; for TFTP, `tftp://` plus the hostname or IP.
- 7 Make sure **Update Mode** is set to **Update After Reboot**.
- 8 Click **Apply**.
- 9 Click **Tools** in the navigation tab, then click **Reboot** and click **OK** in the pop-up to confirm.
- 10 Wait a few seconds while the configuration updates — **do not power off the phone**.

VERIFY: Provisioning runs during reboot; the phone picks up its configuration file from the PBX. Dial ***123** to confirm registration.

PROTOCOL	SERVER ADDRESS EXAMPLE
HTTP (hostname)	<code>http://abc.yourdomain.com/prov</code>
HTTP (IP)	<code>http://192.168.1.10/prov</code>
TFTP (hostname)	<code>tftp://voip.yourdomain.com</code>
TFTP (IP)	<code>tftp://192.168.1.10</code>

CONFIGURING BLF (BUSY LAMP FIELD)

BLF is configured on the PBX side, per extension.

Extension Settings

- 1 Log in to the PBX web interface (e.g. <http://192.168.1.10>) with your e-mail address and password.
- 2 On the **Extensions** page, click the **edit** icon for your extension.
- 3 Click the **Advanced Options** button.
- 4 Navigate down to the **Auto Provisioning** and **Presence** group of settings.
- 5 Make sure **Auto Provisioning** is set to **Yes** and **Presence** is set to **Yes**.
- 6 Click **Save**.

Enhanced Services — Directory / BLF List

- 1 Click **Enhanced Services**.
- 2 Check the **Directory / BLF List** check box and click **Save** to enable the feature.
- 3 Click the Directory / BLF List **Edit** button.
- 4 Enter the user's extension number and check the **BLF** check box.
- 5 Click **Save**.

Phone Settings — DSS Keys

- 1 Browse to the phone's IP (e.g. <http://192.168.1.22>) and log in — factory defaults are username **admin**, password **admin**.
- 2 Click the **Function Key** link in the left-hand navigation menu.
- 3 Configure **1 to 12 DSS Keys** from the list.
- 4 Click **Confirm** to save the changes.