

OVERVIEW & REQUIREMENTS

This guide walks through configuring the **Fanvil X4** IP phone to register with **the PBX platform v4.1** — from installation through manual configuration, auto provisioning (DHCP, TFTP, HTTP/HTTPS), and BLF setup.



Fanvil X4 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 **4.1.2.0**

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: 4.1.2.0  
(387597b7), Running: 1.8.32.1-gc-b47edc45,  
Proxy v4.1.2 (62b7bcd), API: 4.1
```

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 X4
- 4 Set **Status** = **Active**, **Auto provisioning** = **No**, **DHCP** = **Yes**
- 5 Click **Save**

The screenshot shows the 'Device > Yealink T22P' configuration page. Under the 'General' tab, the 'Status' dropdown is set to 'Active'. Under the 'Auto Provisioning' section, 'Auto provisioning' is set to 'No' and 'DHCP' is set to 'Yes'. The 'Save' button is highlighted with a green checkmark.

UAD settings — manual configuration

MANUAL CONFIGURATION — EXTENSION & REGISTRATION

CREATE THE EXTENSION

- 1 **Extensions** > **Add Extension** > UAD = Fanvil X4,
Location = Local or Remote > **Next step**

REQUIRED EXTENSION FIELDS

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

Click **Save**.

» Extensions: Add

General

Extension: 1000 ✓

Name: John Smith ✓

E-mail: john.smith@bicomysyster ✓

Department: None

Authentication

Username: 1000 ✓

Secret: %XqM9*P@_3R

Secure - 80%

PIN: 5228 ✓

Permissions

Destinations

Enhanced Services

Notes

Auto Provisioning

Auto provisioning: Yes No N/A ✓

MAC Address:

Save Go back

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 X4, set **Status** = **Active**, **Auto provisioning** = **Yes**, **DHCP** = **Yes**, click **Save**

UAD settings — auto provisioning

2 CREATE THE EXTENSION

- 1 **Extensions** > **Add Extension** > UAD = Fanvil X4,
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 X4, add fields to the **User Agent General Auto Provisioning Template** under **Settings > UAD > Fanvil X4** — 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