

OVERVIEW & REQUIREMENTS

This guide walks through configuring the **Fanvil X3S** IP phone to register with the **PBX platform v4.1.3** – from installation through manual configuration and auto provisioning (TFTP, HTTP/HTTPS).



Fanvil X3S IP phone

BEFORE YOU BEGIN

- **Phone model** – Confirm the exact model on the back of the phone
- **Firmware** – Version 2.0.2.2822, checked via the phone's web interface
- **DHCP** – A fully configured, operational DHCP server
- **PBX version** – Release 4.1.3.0

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 Press the **Down** navigation key
- 2 The IP address is shown at the top of the display

KEY SUPPORTED FEATURES

- 2 VoIP accounts
- Hold, mute, DND, call waiting
- XML/LDAP remote phonebook
- SRTP for voice
- Auto provision (TFTP/HTTP/HTTPS)
- Forward, transfer, 3-way conference
- Call park, call pickup, voicemail
- G.722, G.711(A/u), G.729AB, iLBC

CHECK PBX VERSION

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

Edition: Business, Release: 4.1.3.0 (387597b7), Running: 1.8.32.1-gc-b47edc45, Proxy v4.1.3 (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

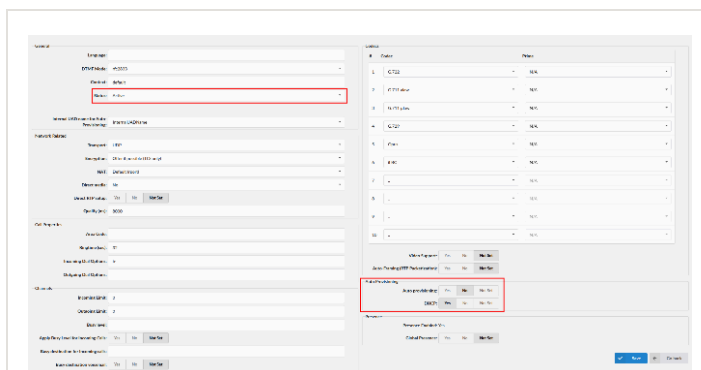
OPTION B – POWER OVER ETHERNET (POE)

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

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

MANUAL CONFIGURATION – UAD SETTINGS

- 1 Browse to the PBX platform, e.g. `http://192.168.1.10`, and log in with your e-mail address and password
- 2 Navigate to **Settings > UAD**
- 3 Make sure the Fanvil UAD is enabled — click the **Edit** icon for the Fanvil X3S
- 4 Set **Status** = **Active**, **Auto provisioning** = **No**, **DHCP** = **Yes**
- 5 Click **Save**



UAD settings – manual configuration

RESET TO FACTORY SETTINGS

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

- 1 Browse to the phone's IP, e.g. `http://192.168.1.22`, and log in (`admin / admin`)
- 2 Click the **Configurations** tab
- 3 Click **Reset** — the phone resets to factory settings and reboots
- 4 Allow time for the phone to reboot

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

MANUAL CONFIGURATION – EXTENSION & REGISTRATION

CREATE THE EXTENSION

- 1 **Extensions > Add Extension** > **UAD** = Fanvil X3S, **Location** = Local or Remote > **Next step**

Local is for extensions registered on the LAN; **Remote** is for extensions registered from remote networks, WAN, Internet, etc.

REQUIRED EXTENSION FIELDS

- **Name** – e.g. John Smith
- **E-mail** – e.g. john.smith@yourdomain.com (receives all system notifications)
- **Department** – e.g. Sales

Click **Save**.

REGISTER THE PHONE

- 1 Browse to the phone's IP and 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` (generated automatically for each new extension and sent to its e-mail address)
- 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.

Creating the extension

AUTO PROVISIONING

1 UAD SETTINGS

- 1 Log in to the PBX platform, navigate to **Settings > UAD**
- 2 Click **Edit** for the Fanvil X3S, set **Status** = **Active**, **Auto provisioning** = **Yes**, **DHCP** = **Yes**, click **Save**

2 CREATE THE EXTENSION

- 1 **Extensions > Add Extension** > **UAD** = Fanvil X3S, **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, e.g. 0C383E123456

Click **Save**.

SERVER ADDRESS FORMATS

- **HTTP** — `http://voip.yourdomain.com/prov` or `http://192.168.1.10/prov`
- **HTTPS** — `https://voip.yourdomain.com/prov`
- **TFTP** — `tftp://voip.yourdomain.com` or `tftp://192.168.1.10`

HTTP is the recommended protocol type.

3 REGISTER VIA TFTP, HTTP, OR HTTPS

- 1 Browse to the phone's IP, log in (`admin / admin`) and press **Confirm**
- 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 including the protocol prefix (see formats at left)
- 8 Set **Update Mode** to **Update After Reboot**
- 9 Click **Apply**
- 10 Click **Tools > Reboot**, then **OK** to confirm
- 11 Wait for the configuration to update — do not power off the phone. The phone picks up its configuration during reboot. Dial `*123` to verify.

UAD settings — auto provisioning

Extension with auto provisioning

FULL FEATURE REFERENCE & SUMMARY

FANVIL X3S SUPPORTED FEATURES

- 2 VoIP accounts
- Auto provision via TFTP/HTTP/HTTPS
- Call hold, mute, DND
- Call forward, call waiting, call transfer
- Redial, call return, auto answer
- 3-way conferencing
- Dial plan, XML Browser
- Codecs: G.722, G.711(A/u), G.729AB, G.723, G.726, iLBC
- XML/LDAP remote phonebook
- Call history: dialed / received / missed / forwarded
- Anonymous call, anonymous call rejection
- Music on hold, voice mail
- Call park, call pickup
- SRTP for voice
- Time and date synchronization using SNTP
- DTMF: In-band, Out-of-band (RFC2833), SIP INFO
- IP assignment: static / DHCP / PPPoE

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

FACTORY DEFAULTS AT A GLANCE

- **Web login** — admin / admin
- **Firmware** — 2.0.2.2822
- **Registration check** — dial *123
- **Update Mode** — Update After Reboot
- **Recommended protocol** — HTTP