

OVERVIEW & REQUIREMENTS

This guide explains how to configure the **Yealink SIP-T54W** Wi-Fi business IP phone to register with the PBX, using either manual configuration or auto provisioning.

IDENTIFY YOUR PHONE MODEL

Check the label on the back of the phone to confirm the exact model. Yealink models can differ significantly in requirements and setup procedure — confirming the model first avoids failed registrations.

PHONE FIRMWARE

- Required firmware version: **96.84.0.20**.
- To check, browse to the phone IP (example: `http://192.168.1.22`) and log in to the web interface. Factory default login: username **admin**, password **admin**.



YEALINK SIP-T54W

DHCP SERVER

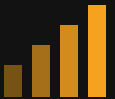
A fully configured and operational DHCP server on the network.

PBX VERSION

A PBX version **5.2.4 or newer** is required.

CHECKING THE PBX VERSION

Log in to the PBX and navigate to **Settings** → **About**. The top of the About page shows a line similar to **Edition: Business, Release: 5.2.4** — **Release** denotes the current version.



INSTALLATION

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 the 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 switch.

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

FIND THE PHONE IP ADDRESS

Press the **OK** button on the phone. The IP address is displayed at the top of the screen.

RESET TO FACTORY SETTINGS

Not required for brand-new phones — but if the phone has been used before, a factory reset is a must.

FROM THE PHONE

- Hold the **OK** button for 5 seconds.
- Confirm with the **OK** button at the prompt.
- Allow time for the device to reboot.

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

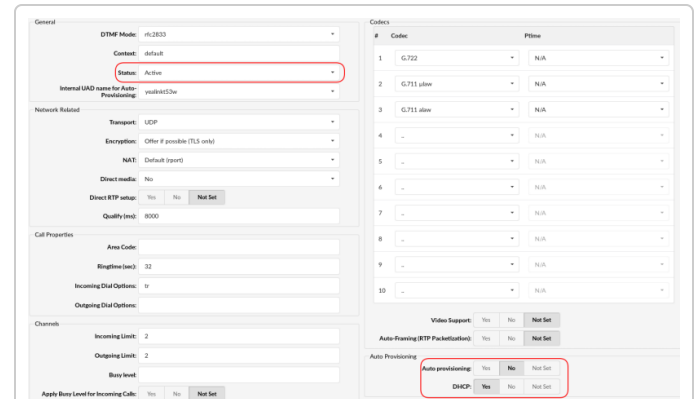
MANUAL CONFIGURATION

1 • UAD SETTINGS

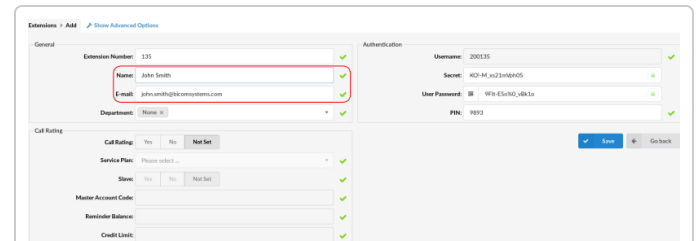
- Browse to the PBX (example: `http://192.168.1.10`) and log in with your e-mail address and password.
- Navigate to **Settings** → **UAD** and make sure the Yealink UAD is enabled — click the **edit** icon for your Yealink phone.
- Set **Status** = **Active**, **Auto provisioning** = **No**, **DHCP** = **Yes**.
- Click **Save**.

2 • CREATING THE EXTENSION

- Navigate to **Extensions** and click **Add Extension**.
- Select the Yealink phone model in the **UAD** select box.
- Select Location: **Local** (LAN) or **Remote** (WAN/Internet), then click **Next step**.
- Enter **Name** (e.g. John Smith), **E-mail** (e.g. john.smith@yourdomain.com — receives system notifications), and **Department** (e.g. Sales), then click **Save**.



UAD SETTINGS — MANUAL CONFIGURATION



ADD EXTENSION

3 • REGISTERING THE PHONE (HOSTNAME OR IP ADDRESS)

Browse to the phone IP, log in (**admin / admin**), and click **Account**. Enter the following:

Account Active	Select the On radio box.
Register Name	Extension number. Example: 1003
User Name	Usually the same as the phone number.
Password	The extension Secret received in the extension e-mail (auto-generated per extension). Example: %Z4M3*Ts9y7
Sip Server	Hostname or IP address of the PBX. Examples: pbx.yourdomain.com or 192.168.1.10

Click **Confirm** and allow time for the device to reboot.

Dial ***123** to verify registration.

MANUAL CONFIGURATION — DNS SRV

REGISTERING VIA DNS SRV RECORD

A DNS SRV record can specify the location of the PBX. Your DNS server must be configured correctly for this to work — your service provider can assist with this setup.

Browse to the phone IP, log in (**admin / admin**), click **Account**, and complete the same required fields as Hostname/IP registration, with these differences:

Sip Server	Enter the Hostname only. Example: yourdomain.com — replace with your PBX hostname. The DNS server must be configured to route the registration request to the PBX, which may live under another domain (example: pbx2.yourdomain.com).
Transport	Select DNS SRV from the drop-down menu.

Click **Confirm**, allow the phone to reboot, then dial ***123** to verify registration.

AUTO PROVISIONING — SETUP

1 • UAD SETTINGS

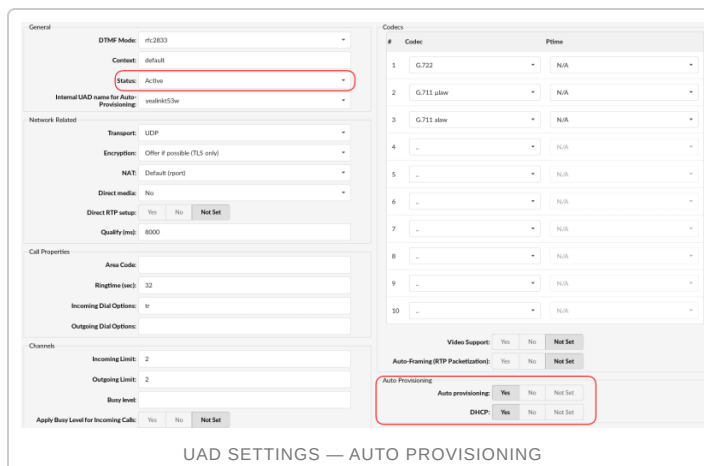
- Log in to the PBX and navigate to **Settings** → **UAD**.
- Edit the Yealink UAD and set **Status = Active**, **Auto provisioning = Yes**, **DHCP = Yes**.
- Click **Save**.

2 • CREATING THE EXTENSION

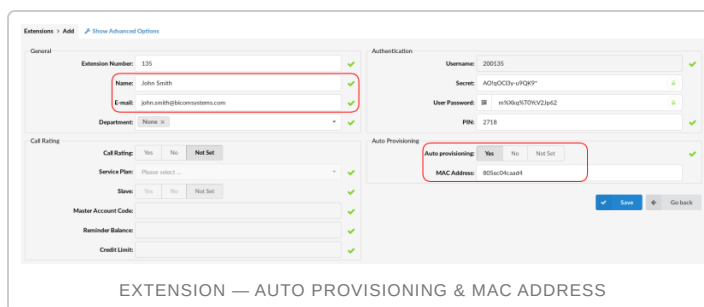
- Navigate to **Extensions** → **Add Extension**, select the Yealink model and Location, then click **Next step**.
- Enter **Name** and **E-mail** as usual, then set:
- Auto Provisioning = Yes**.
- MAC Address** — the phone MAC, found on the label on the back of the phone. Example: **001565FF1536**.
- Click **Save**.

3 • DHCP (OPTION 66)

Make sure your DHCP router uses **option 66** to automatically hand phones the auto-provisioning URL (see your router documentation or network administrator). Provisioning then runs at first boot or on a user-initiated reboot — the DHCP server tells the phone where to pick up its configuration file. Dial ***123** to verify registration.



UAD SETTINGS — AUTO PROVISIONING



EXTENSION — AUTO PROVISIONING & MAC ADDRESS

AUTO PROVISIONING — TFTP, HTTP & HTTPS

PHONE-SIDE PROVISIONING SETUP

- Browse to the phone IP (example: `http://192.168.1.22`), enter **username** and **password** (defaults **admin / admin**) and press **Confirm**.
- Click the **Settings** tab, then **Auto Provision** in the left-hand menu.
- Choose the **server type**: HTTP, HTTPS, or Trivial FTP. **HTTP is recommended**.
- Enter the Auto Provisioning username and password into the **User Name** and **Password** fields.
- Click **Autoprovision Now**, then **OK** in the pop-up to confirm.
- Wait for the configuration to update — **do not power off the phone**. The phone picks up its configuration file from the PBX during reboot.

PROVISIONING ADDRESS FORMATS

For **HTTP / HTTPS**, enter the protocol, then the hostname or IP, then **/prov**:

```
http://pbx.yourdomain.com/prov
https://pbx.yourdomain.com/prov
http://192.168.1.10/prov
https://192.168.1.10/prov
```

For **TFTP**, enter **tftp://** followed by the hostname or IP:

```
tftp://pbx.yourdomain.com
tftp://192.168.1.10
```

Dial ***123** to verify registration.

Using TLS / HTTPS: If provisioning over HTTPS, also open the **Security** tab → **Trusted Certificates** and disable **Only Accept Trusted Certificates**.

AUTO PROVISIONING — DNS SRV

Auto Provisioning

LAN Hostname/IP: 10.1.90.100

WAN Hostname/IP: 10.1.90.100

Max. Number of requests: 100

gloCOM LAN server:

gloCOM WAN server:

Enable TFTP:

Yes

No

Not Set

Use DNS SRV when possible:

Yes

No

Not Set

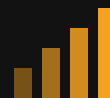
WAN Host for DNS SRV:

PHONE WEB UI — DNS SRV AUTO PROVISIONING

PROVISIONING VIA DNS SRV

- In the PBX, confirm DNS SRV is enabled: navigate to **Settings** → **Servers** and edit the server (on the Multi-Tenant Edition: **Settings** → **Tenants** → **Master Tenant**). In the **Auto Provisioning** group, set **Use DNS SRV when possible** = **Yes** and click **Save**. *You must re-save all extensions configured for auto provisioning.*
- On the phone web interface, open **Upgrade** → **Advanced** and enter the PBX hostname in the **URL** field (example: **yourdomain.com**). The DNS server must route registration to the PBX even if it lives under another domain (example: **pbx2.yourdomain.com**).
- Set **Check New Config** = **Power on + Repeatedly**, then click **Confirm** and allow the device to save.
- Click **Auto Provision**, confirm with **OK** — the phone pulls its configuration during reboot. Dial ***123** to verify.

If there is no DHCP on the network, set a static IP on the phone first (see the Yealink user guide), then follow the same steps.



CONFIGURING BLF (BUSY LAMP FIELD)

EXTENSION SETTINGS (PBX SIDE)

- Log in to the PBX and click the **edit** icon for your extension on the **Extensions** page.
- Click **Advanced Options** and scroll to the **Auto Provisioning** and **Presence** groups.
- Set **Auto Provisioning** = **Yes** and **Presence** = **Yes**, then click **Save**.
- Click **Enhanced Services**, check **Directory / BLF List**, and click **Save** to enable the feature.
- Click the Directory / BLF List **Edit** button, select the DSS key type, enter the **Value** and **Label** for the key, and click **Save**.

BLF keys light to show the live status of monitored extensions. Keys are pushed to the phone via auto provisioning.

ADDITIONAL CONFIGURATION TEMPLATE

CUSTOM UAD CONFIGURATION

To include additional UAD configuration for the Yealink T54W, add fields to the **User Agent General Auto Provisioning Template** under **Settings** → **UAD** → **Yealink T54W**, or add them directly to the extension in the **UAD Auto Provisioning Template** section.

NEED A HAND?

Contact your service provider using the support details shown in the footer of this guide.