

OVERVIEW & REQUIREMENTS

This guide walks through configuring the **Denwa DW-310P** IP phone to register with **the PBX platform 4.1** — from installation through manual configuration and auto provisioning (DHCP, TFTP, HTTP/HTTPS).



BEFORE YOU BEGIN

- **Phone model** — Confirm the exact model on the back of the phone
- **Firmware** — Version **2.3.340.178**
- **DHCP** — A fully configured, operational DHCP server
- **PBX version** — Release **4.1**

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 Check the phone's display or the DHCP lease table on your router

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

CONNECT NETWORK & POWER

- 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

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`
- 2 Log in (factory default: `admin / admin`)
- 3 Navigate to the factory reset option and confirm
- 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 — 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 Denwa phone
- 4 Set **Status** = `Active`, **Auto provisioning** = `No`, **DHCP** = `Yes`
- 5 Click **Save**

UAD settings — manual configuration

MANUAL CONFIGURATION — EXTENSION & REGISTRATION

CREATE THE EXTENSION

- 1 **Extensions** > **Add Extension** > UAD = Denwa DW-310P, 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 **VOIP** in the navigation menu
- 3 **Server Address** — PBX hostname or IP, e.g. `voip.yourdomain.com` or `192.168.1.10`
- 4 **Authentication User** — the Extension number, e.g. `1003`
- 5 **Authentication Password** — the extension Secret, e.g. `_%Z4M3*Ts9y7`
- 6 **SIP User** — usually the same as the Extension number
- 7 **Display Name** — the extension username, e.g. `John`
- 8 **Enable Registration** — check the box
- 9 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 Denwa phone, set **Status** = **Active**, **Auto provisioning** = **Yes**, **DHCP** = **Yes**, click **Save**

UAD settings — auto provisioning

2 CREATE THE EXTENSION

- 1 **Extensions > Add Extension > UAD = Denwa DW-310P, 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. 000B82123456

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 **Maintenance** in the left navigation menu
- 3 Enter auto-provisioning **User** and **Password**
- 4 Click **Phone provision settings**
- 5 In **Server Address**, enter the appropriate address (see formats below)
- 6 In **Protocol Type**, select HTTP, HTTPS, or Trivial FTP (HTTP recommended)
- 7 Set **Update Mode** to **Update After Reboot**
- 8 Click **Apply**, confirm with **Return**
- 9 Click **Reboot** at the top and confirm
- 10 Wait for the 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.