Navijin

CONFIGURATION GUIDE

NAVIJIN GATEWAYS & AC CONTROLLERS

Gateway and AC Controller: Initial Setup

Bring a Navijin gateway online, secure it, build VLANs with DHCP, and manage Navijin access points from the built-in wireless controller with SSIDs mapped to VLANs.

First login · Interfaces · VLAN + DHCP · AP controller · SSID to VLAN · Verification

Applies to
Navijin gateways with built-in AC controller

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ABOUT THIS GUIDE

Before you begin

Navijin gateways combine routing, DHCP, VLANs and a wireless access-point controller (AC) in one device. In this guide you log in, change the default password, configure an interface and DHCP, create VLANs, enable the controller, build an **AP group** with 2.4 GHz and 5 GHz SSIDs bound to VLANs, adopt access points and verify that clients receive the right addresses.

Conventions: menu paths are shown in **bold** (for example **Network** → **VLAN**); commands and values in `monospace`. Screenshots may differ slightly by firmware version.

Who this guide is for

- Integrators deploying hotel, office, retail and campus Wi-Fi
- IT administrators managing small and medium sites

What you need

- A Navijin gateway / AC controller
- One or more Navijin access points connected to the gateway (directly or via a switch)
- A computer with an Ethernet port
- Your plan: VLAN IDs, subnets, SSID names and passwords

Factory defaults

Setting	Default
Web interface	`http://192.168.11.1`
Credentials	`admin` / `admin` (password change enforced at first login)
Client addressing	The PC receives an address from the gateway automatically (DHCP)
Port mode	All ports in BOND mode

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02 Configure an interface and its DHCP server

03 Create VLANs with DHCP

04 Enable the wireless controller

05 Create an AP group with SSIDs bound to VLANs

06 Adopt and bind access points

07 Verify client connectivity

SECTION 01

Log in and change the password

1 Connect and open the web interface

Connect your computer to a LAN port. It receives an IP address automatically. Open `http://192.168.11.1` in a browser.



Figure 1. Navijin gateway login page.

2 Log in

Use `admin` / `admin` and choose your language.

3 Set a new password

At first login the system requires a new password (8–32 characters, letters and numbers). Use a long, unique password and store it securely.

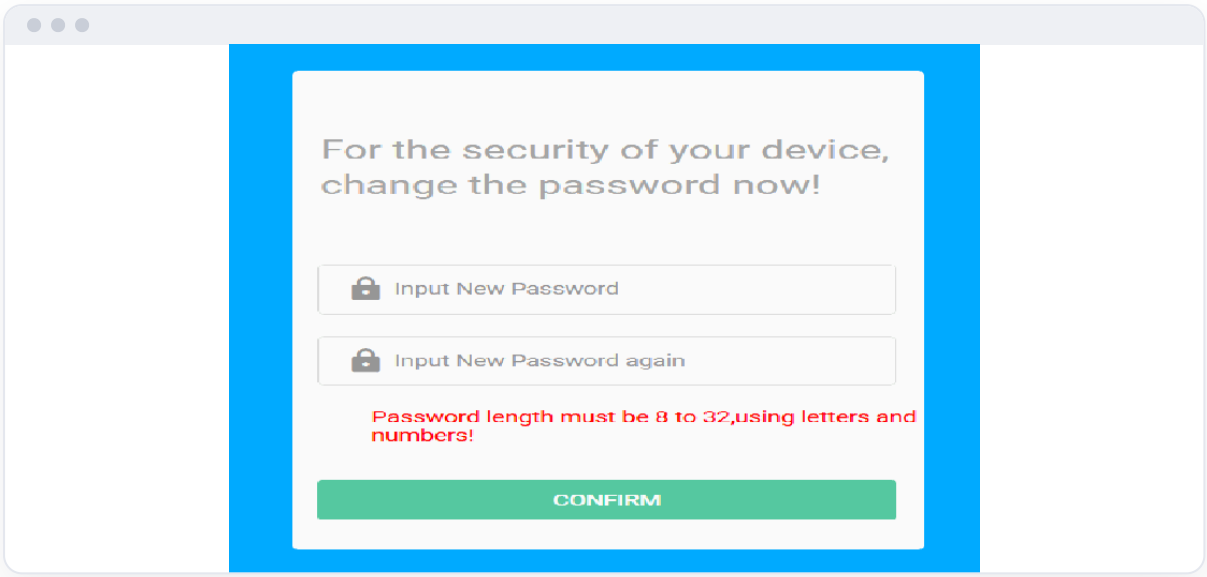


Figure 2. Mandatory password change at first login.

SECTION 02

Configure an interface and its DHCP server

1 Open the interface list

Go to **Network** → **Interface**. By default all ports are in **BOND** mode.

2 Set the port as LAN with an address

To use VLANs on a port, change it to **LAN**, then set its IP address and subnet mask.

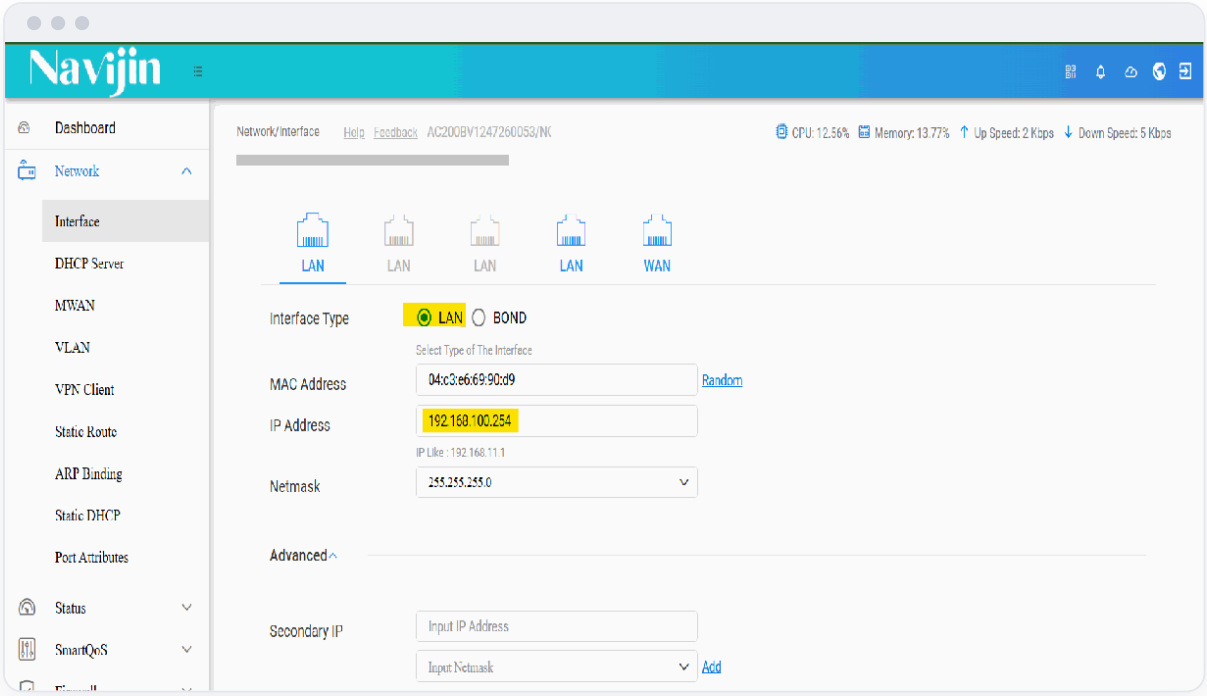


Figure 3. Interface settings: LAN mode, IP address and mask.

3 Enable DHCP on the interface

In the interface's **Advanced** section, enable the DHCP server and set the start address, pool size, lease time and DNS servers.

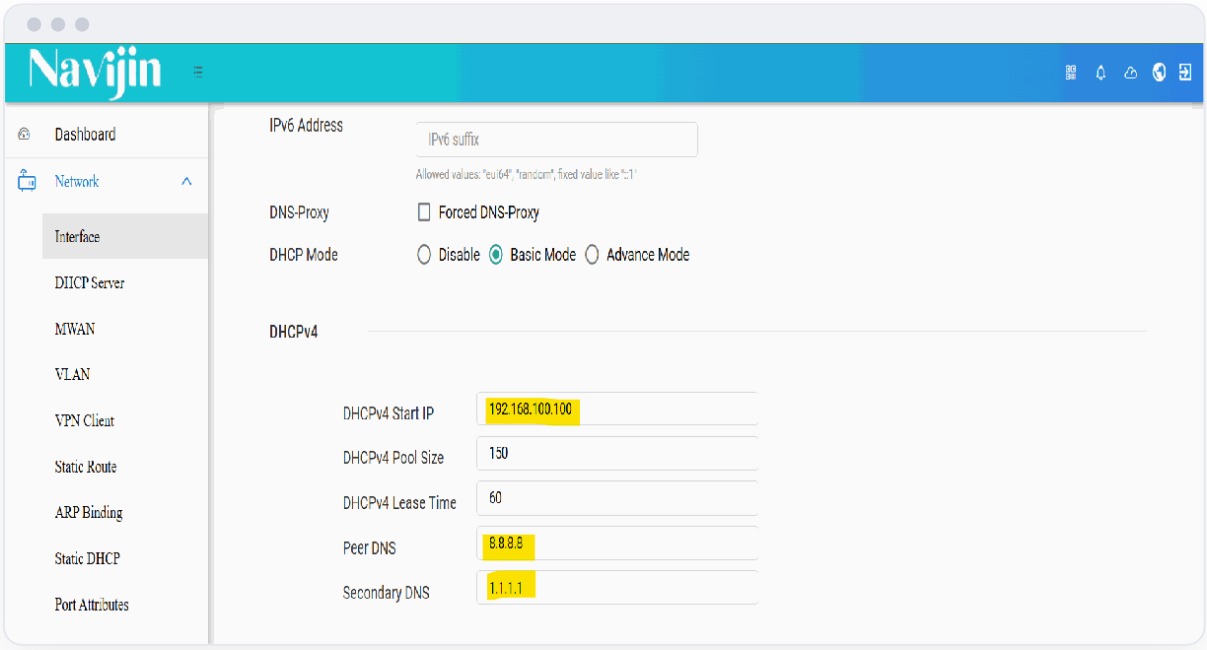


Figure 4. DHCP server settings for the interface.

SECTION 03

Create VLANs with DHCP

Create one VLAN per group of users, for example Staff, Guests and IoT, each with its own DHCP scope.

1 Add a VLAN

Go to **Network** → **VLAN** and click **ADD**.

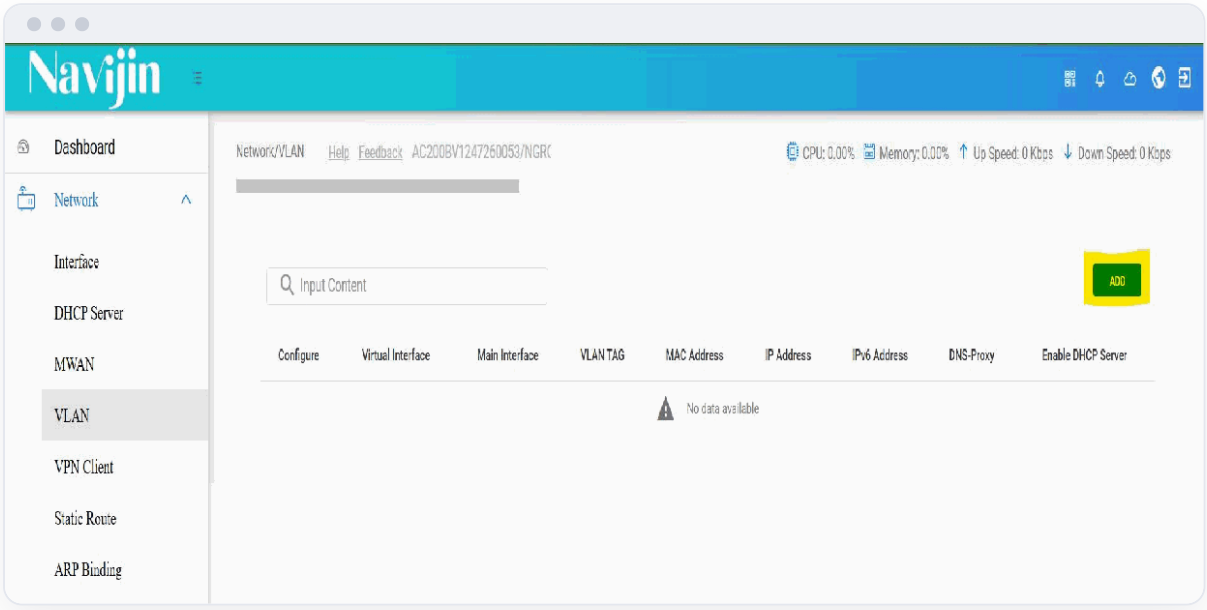


Figure 5. VLAN list with the ADD button.

2 Set interface, VLAN ID and address

Select the parent interface, enter the **VLAN ID**, the gateway IP address and subnet mask for this VLAN.

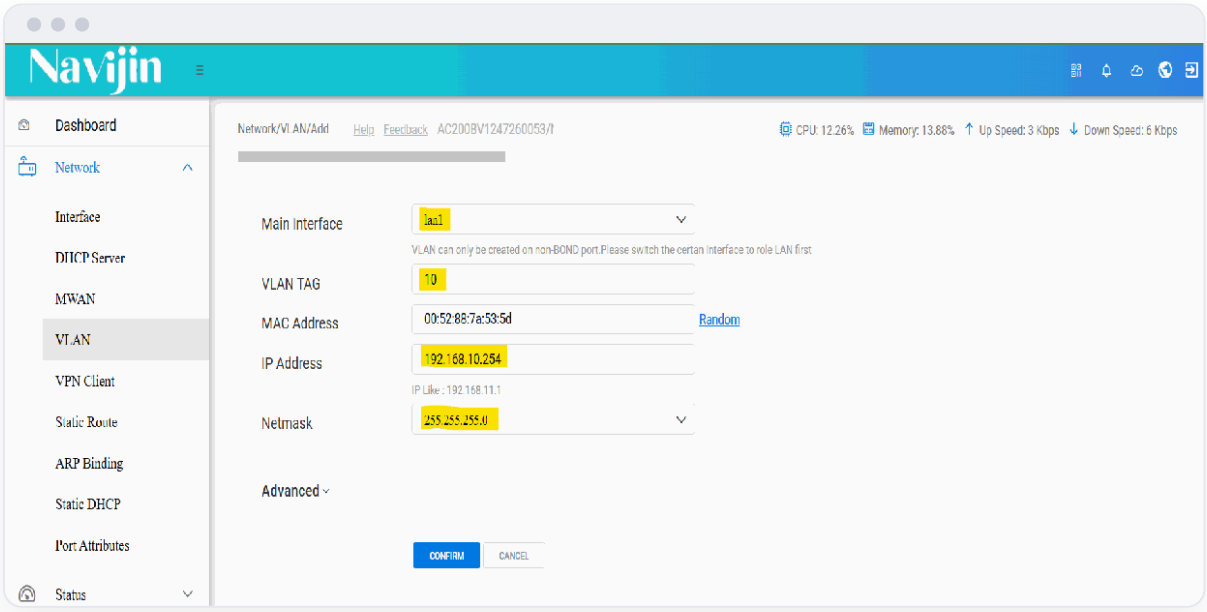


Figure 6. New VLAN: interface, VLAN ID, IP and mask.

3 Enable DHCP for the VLAN

In **Advanced**, enable the DHCP server for the VLAN and set the pool and DNS.

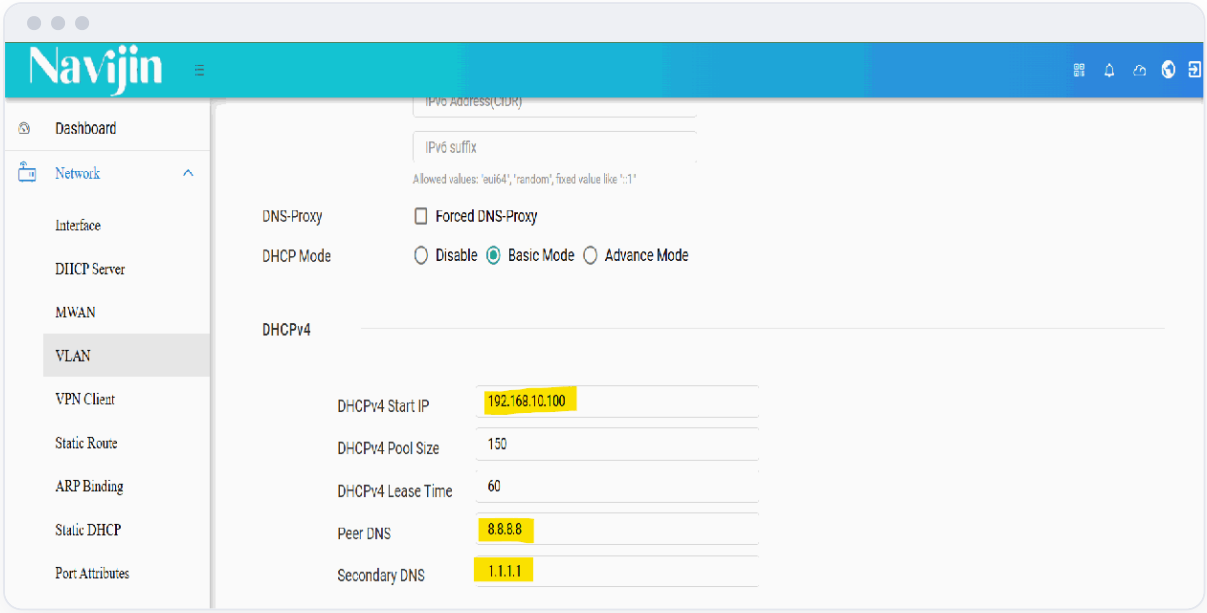


Figure 7. DHCP server for the VLAN.

4 Review VLANs and DHCP servers

Network → VLAN lists all VLANs; **Network → DHCP Server** shows the DHCP server of every interface and VLAN.

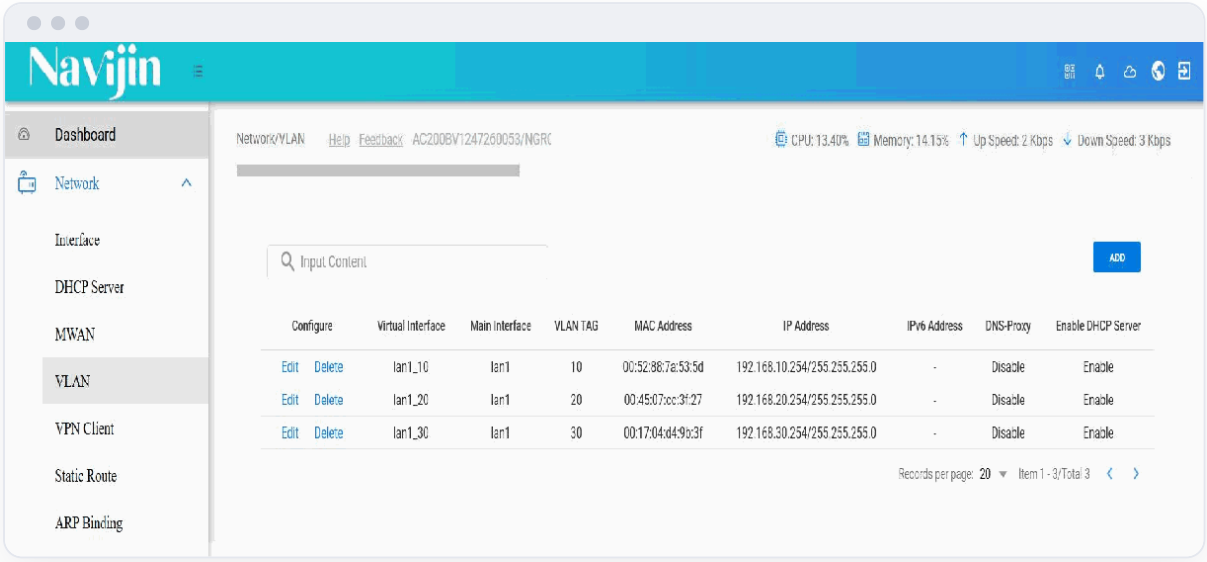


Figure 8. Overview of configured VLANs.

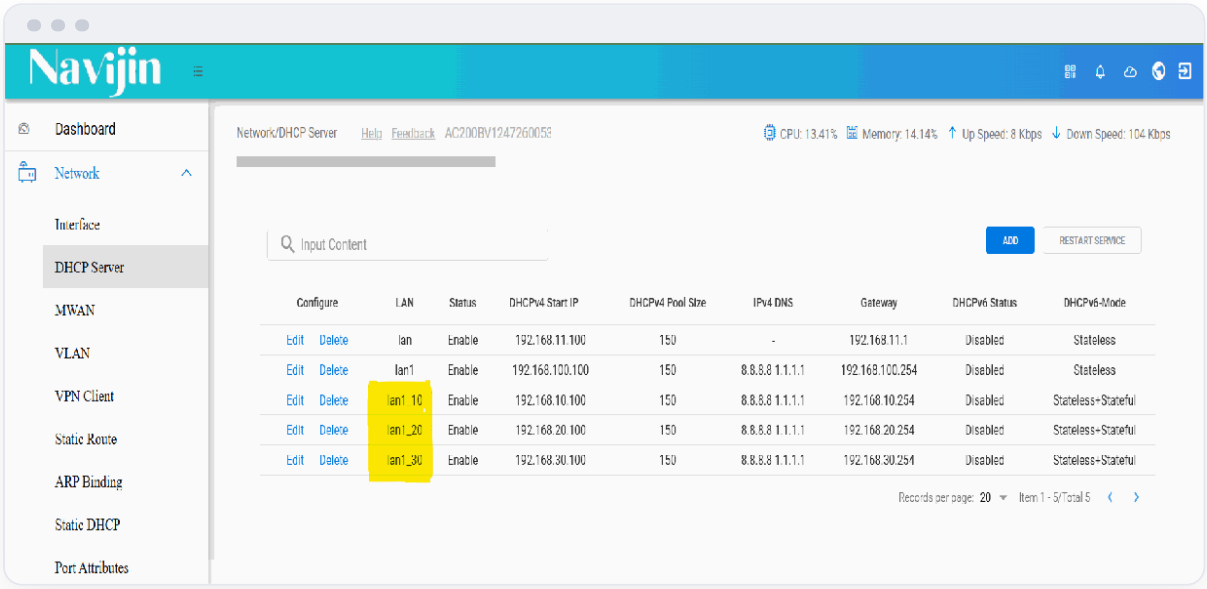


Figure 9. DHCP servers per interface and VLAN.

> **TIP**
>
> Use short lease times (1–4 hours) for guest VLANs so addresses are recycled quickly.

SECTION 04

Enable the wireless controller

1 Open the controller settings

Go to **Wireless** → **Overview** and enable:

- **Access Controller**: activates access-point management
- **AC-AP Time Sync**: keeps time consistent on all access points
- **AP Auto Upgrade**: upgrades access-point firmware automatically
- **AP Scheduled Reboot**: optional scheduled reboots
- **Country For All AP**: sets the regulatory country (important for legal channels and power)

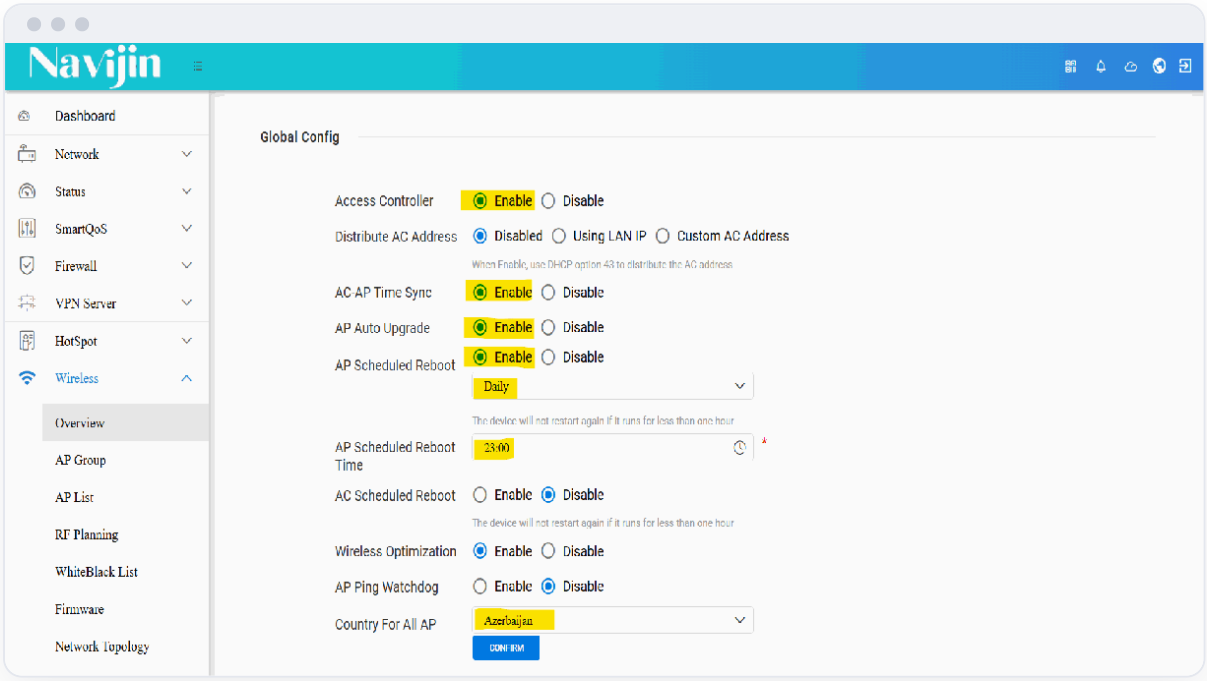


Figure 10. Global wireless controller settings.

> **IMPORTANT**
> Always set the correct country. It determines the allowed channels and transmit power in your location.

SECTION 05

Create an AP group with SSIDs bound to VLANs

An AP group is a template. Every access point bound to the group receives its SSIDs and radio settings automatically.

1 Create the group and configure 2.4 GHz

Go to **Wireless → AP Group**, create a group (for example `My AP Group`) and under **2.4GHz** set the SSID, encryption, key, maximum users and **VLAN binding**.

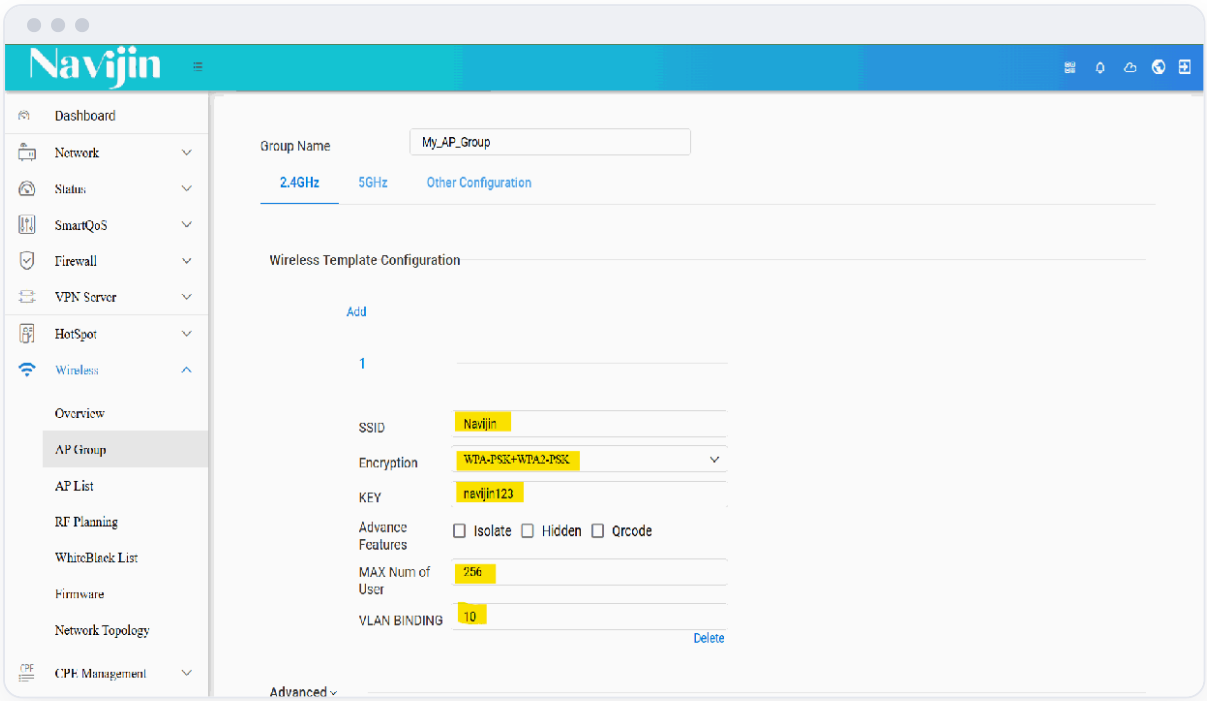


Figure 11. AP group 2.4 GHz settings with VLAN binding.

2 Configure 5 GHz

In the same group, under **5GHz**, set the SSID, encryption, key, maximum users and VLAN binding. Use the same SSID on both bands to let clients choose the best band.

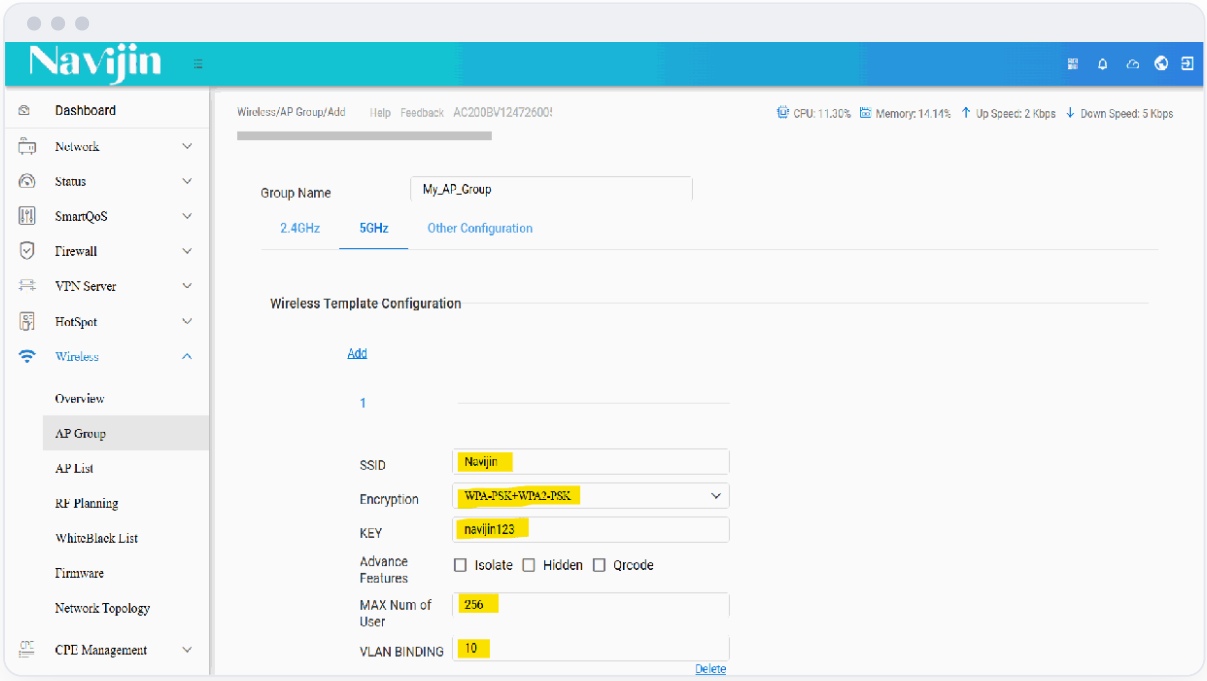


Figure 12. AP group 5 GHz settings.

SSID (example)	Security	VLAN	Purpose

Company-Staff	WPA2/WPA3 with a strong key	10	Employees
Company-Guest	WPA2/WPA3, rotating key	40	Visitors, Internet only
Company-IoT	WPA2, separate key	60	TVs, sensors, smart devices

SECTION 06

Adopt and bind access points

1 View connected access points

Go to **Wireless** → **AP List** to see every access point the controller has discovered.

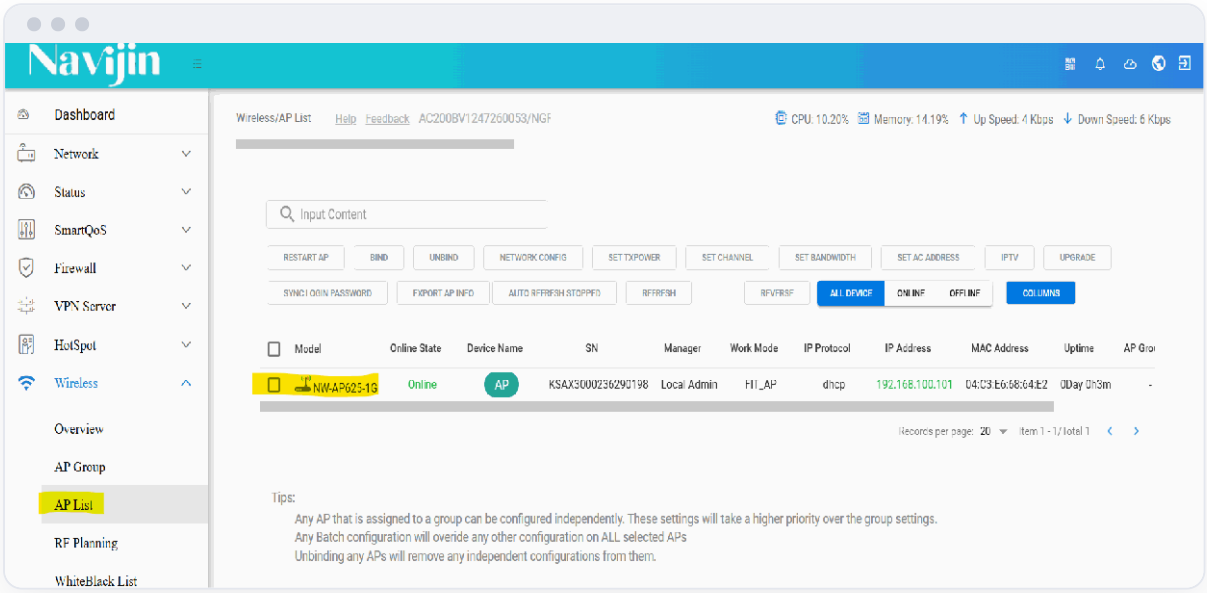


Figure 13. Discovered access points in the AP List.

2 Bind to the group

Select the access point, click **BIND** and choose `My AP Group` in the pop-up.

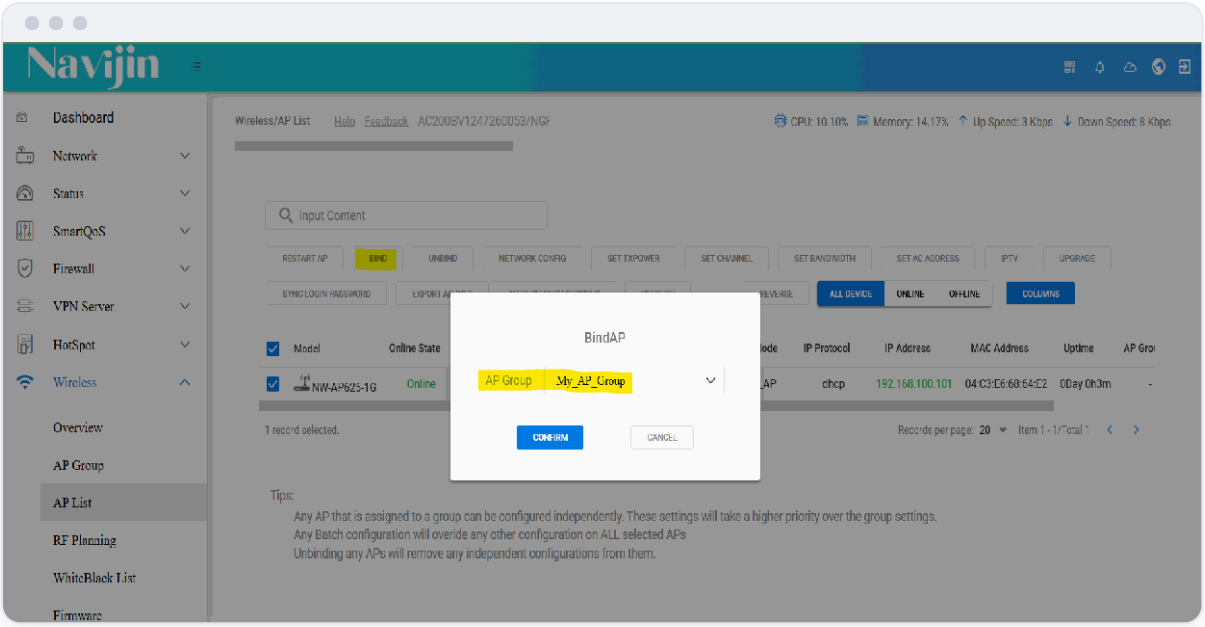


Figure 14. Binding an access point to the AP group.

3 Confirm the configuration is applied

The access point applies the group's SSIDs and radio settings automatically.

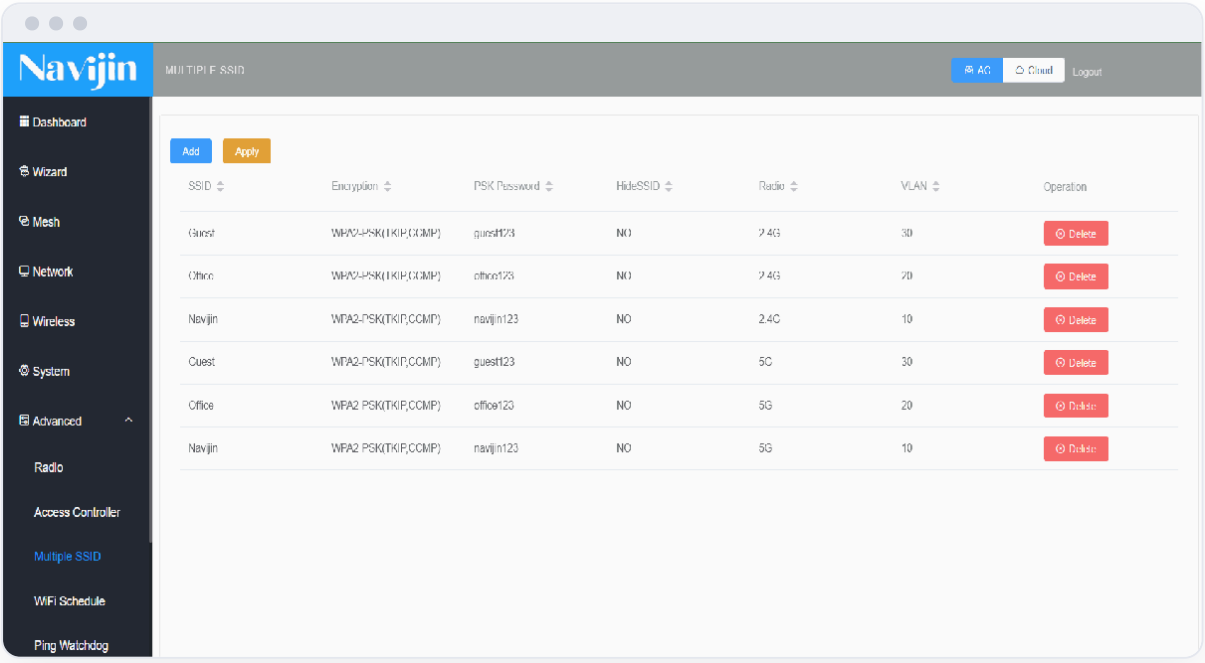


Figure 15. Access point running the group configuration.

SECTION 07

Verify client connectivity

1 Check DHCP leases

Go to **Status** → **DHCP Leases** and confirm that clients receive addresses in the right VLAN for the SSID they joined.

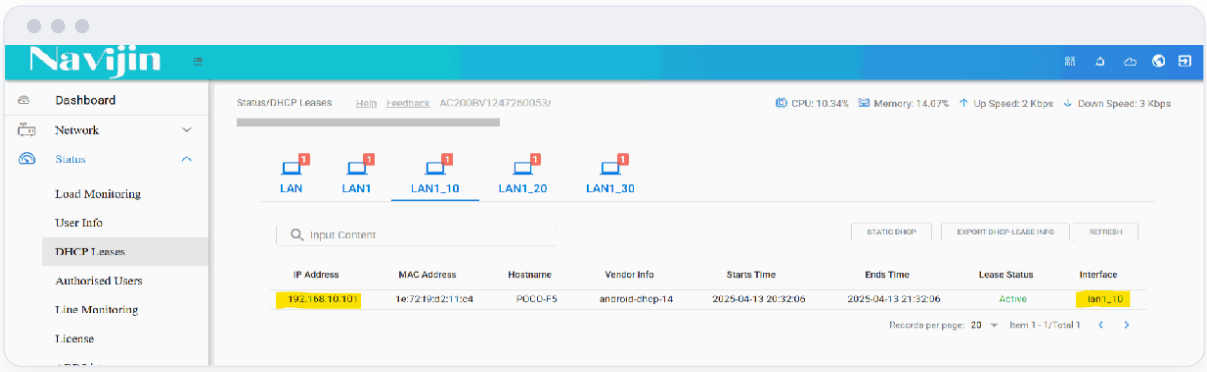


Figure 16. DHCP leases by interface and VLAN.

Symptom	Likely cause	Fix
Access point not in AP List	AP not reaching the controller	Check cabling, PoE and that the AP is in the controller's network
Clients connect but get no IP	VLAN not carried to the AP or no DHCP on that VLAN	Allow the VLAN on switch trunks; enable DHCP on the VLAN
Clients in the wrong subnet	Wrong VLAN binding on the SSID	Correct the VLAN binding in the AP group
Weak 5 GHz coverage	Country/channel or placement	Set the country correctly; review AP placement

Can I manage the gateway from NavCloud?

Supported Navijin gateways can be managed from NavCloud. See the NavCloud page for details.

How many SSIDs should I create?

Keep it to three or four; every SSID uses airtime.

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