

# How to configure the network efficiently by using the Network Planning function on Ruijie Cloud?

## I. Network Planning Function Introduction

With the help of Network Planning function, Ruijie Cloud can generate the configuration and deliver it to the corresponding devices after the engineer just configures some simple parameters, so that the wired network and wireless network can be realized efficiently.

## II. Configuration Requirement and Network Topology



### Wlan

SSID: Staff\_WiFi  
Vlan 10: 192.168.10.0/24  
Speed limit: 20Mbps

### Wired

Vlan 20: 192.168.20.0/24

### Device Requirement

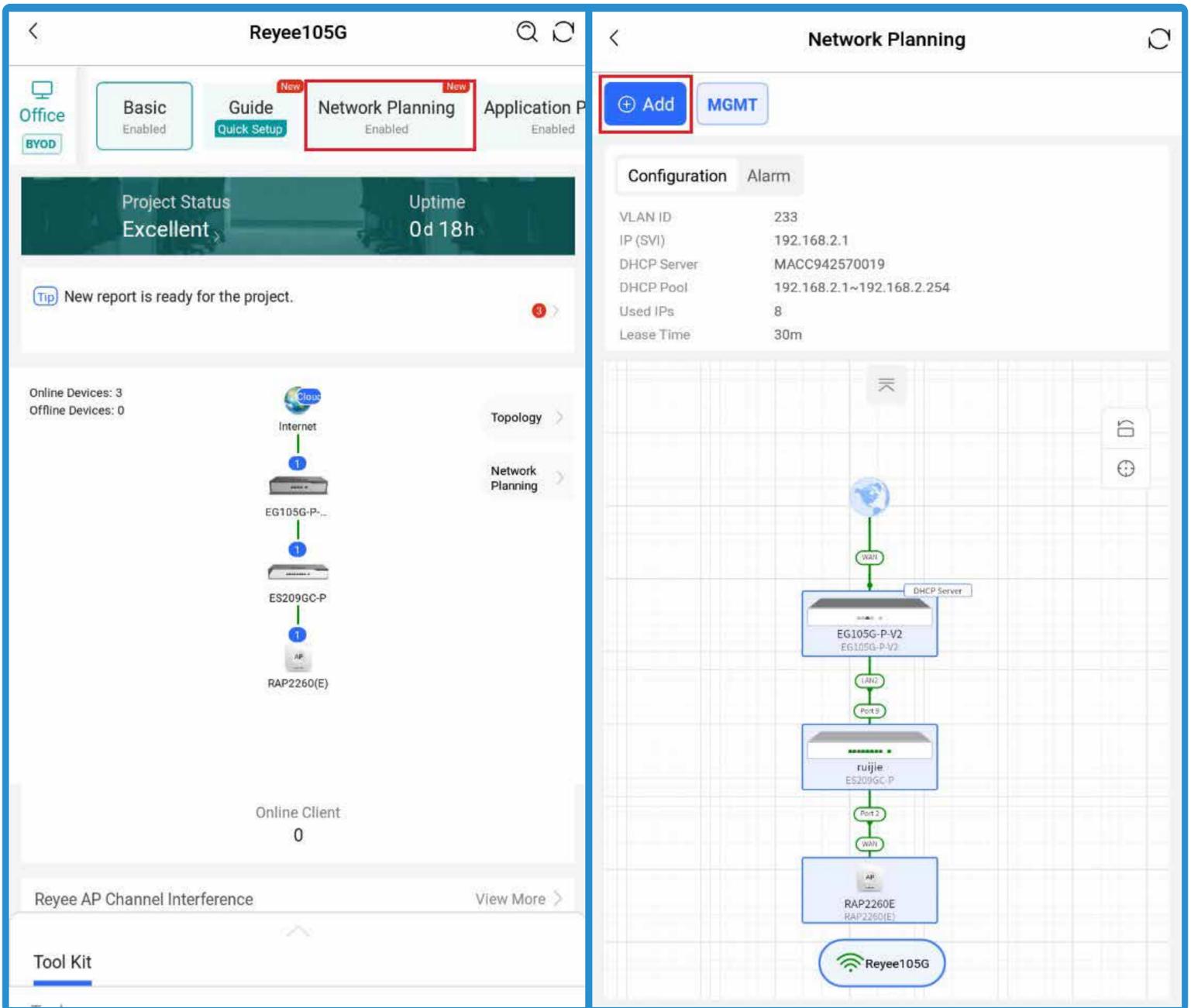
The Ruijie or Reyee EG is required in the network.

## III. Configure Steps

### Ruijie Cloud APP

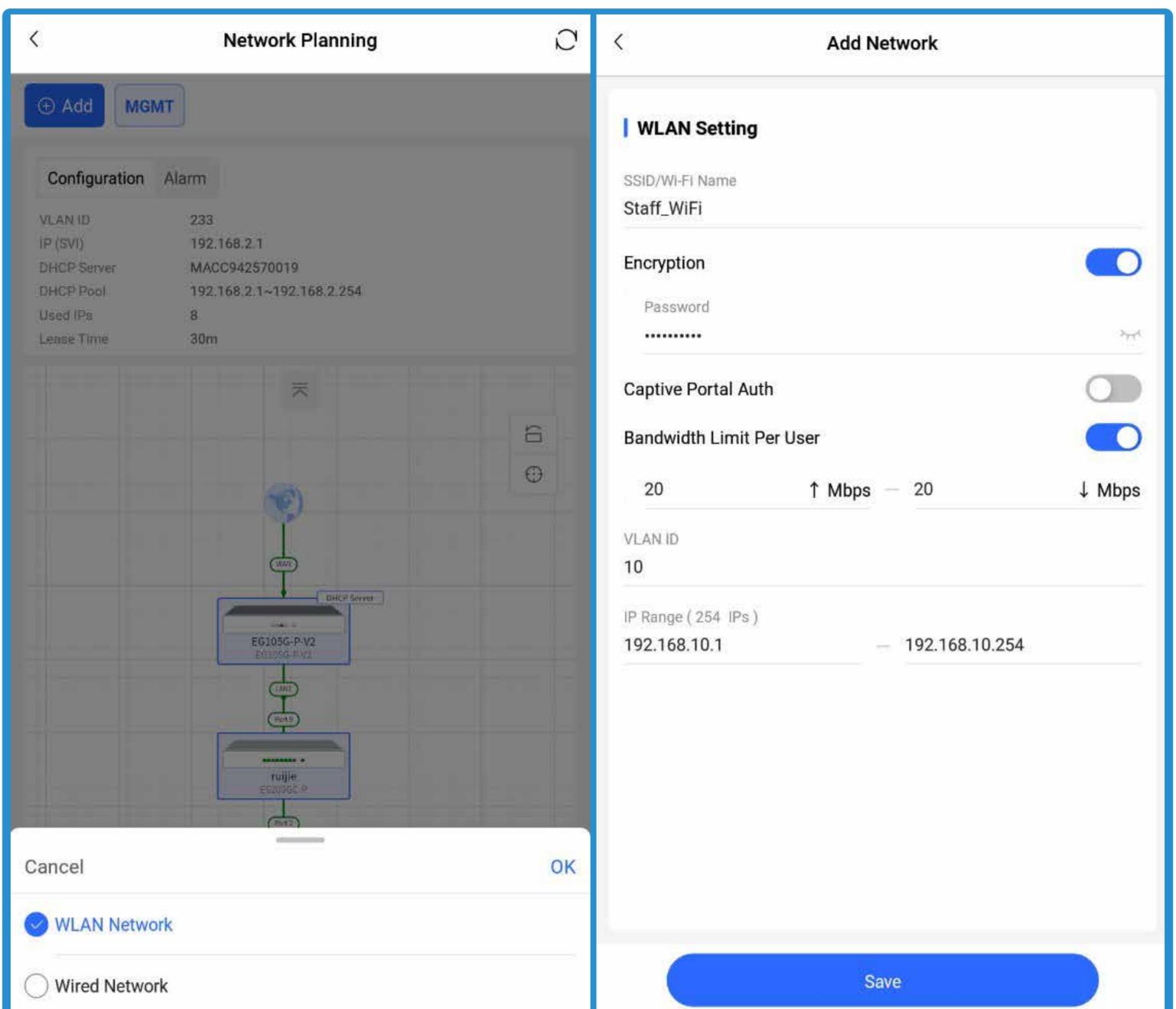
Enter the configuration page by clicking **“Network Planning”** and click **“Add”** to establish a new WLAN/ Wired Network.

### III. Configure Steps



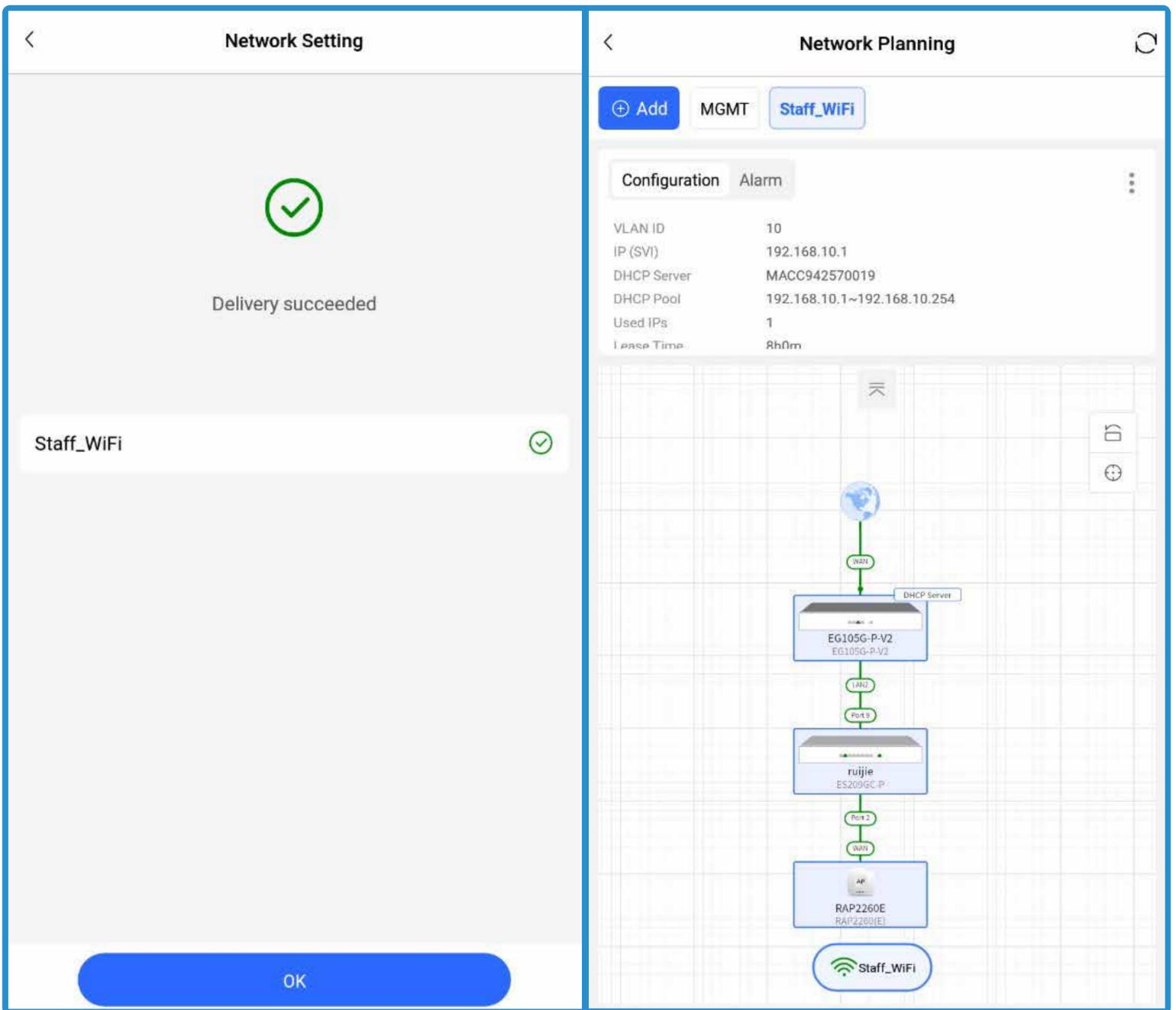
#### 1 WLAN Network

(1) Choose WLAN Network to configure the SSID/WiFi Name (Staff\_WiFi) Encryption respectively. Then set the Bandwidth Limit for Per User as 20 Mbps, VLAN ID as 10, and IP range as 192.168.10.1–192.168.10.254, and click **Save** to save all configurations.



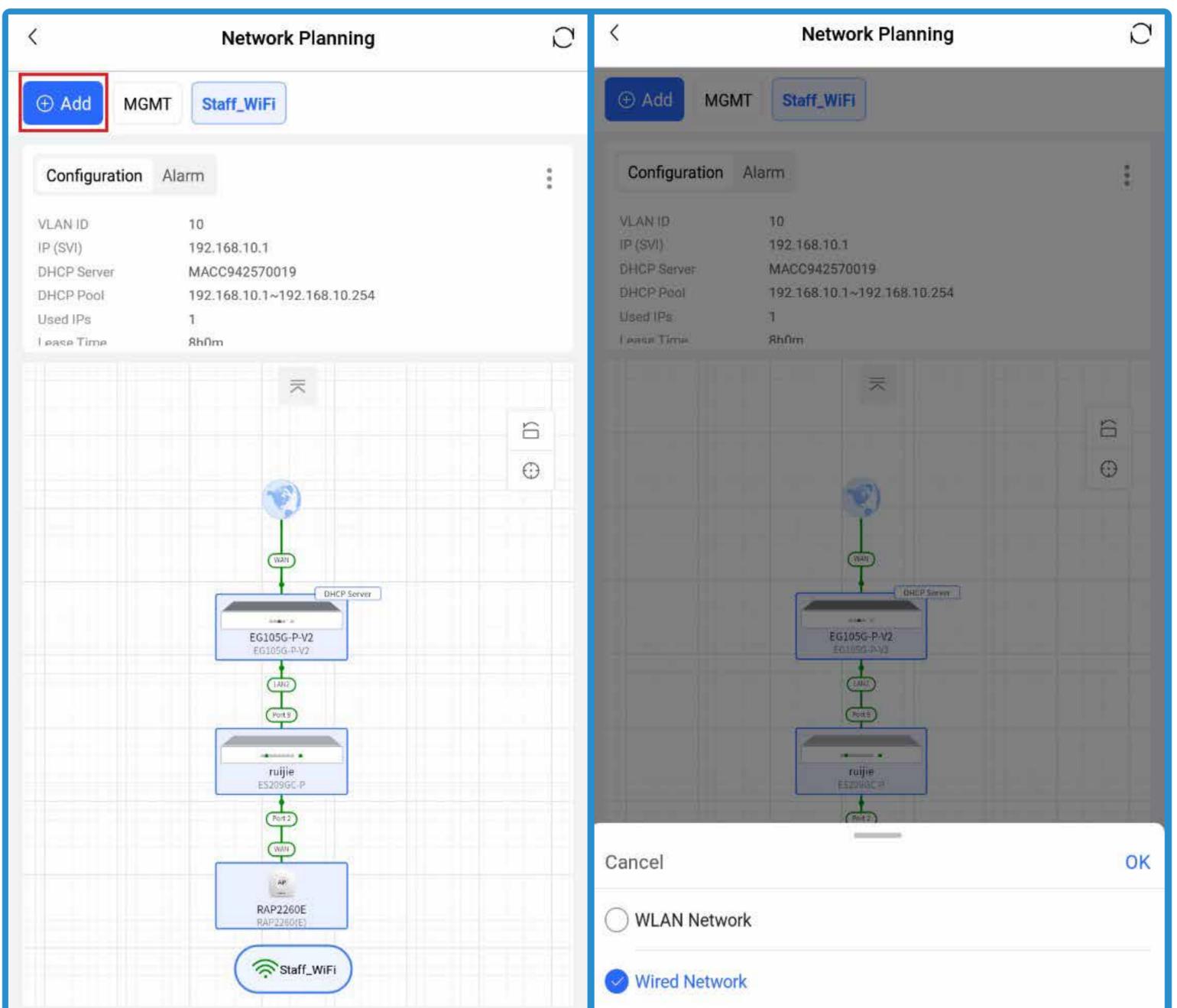
### III. Configure Steps

(2) Ruijie Cloud APP will deliver the configuration to the devices automatically after the configuration is saved. After the delivery succeeded, the newly added WLAN Network: **Staff WiFi** could be seen in the Network Planning page.



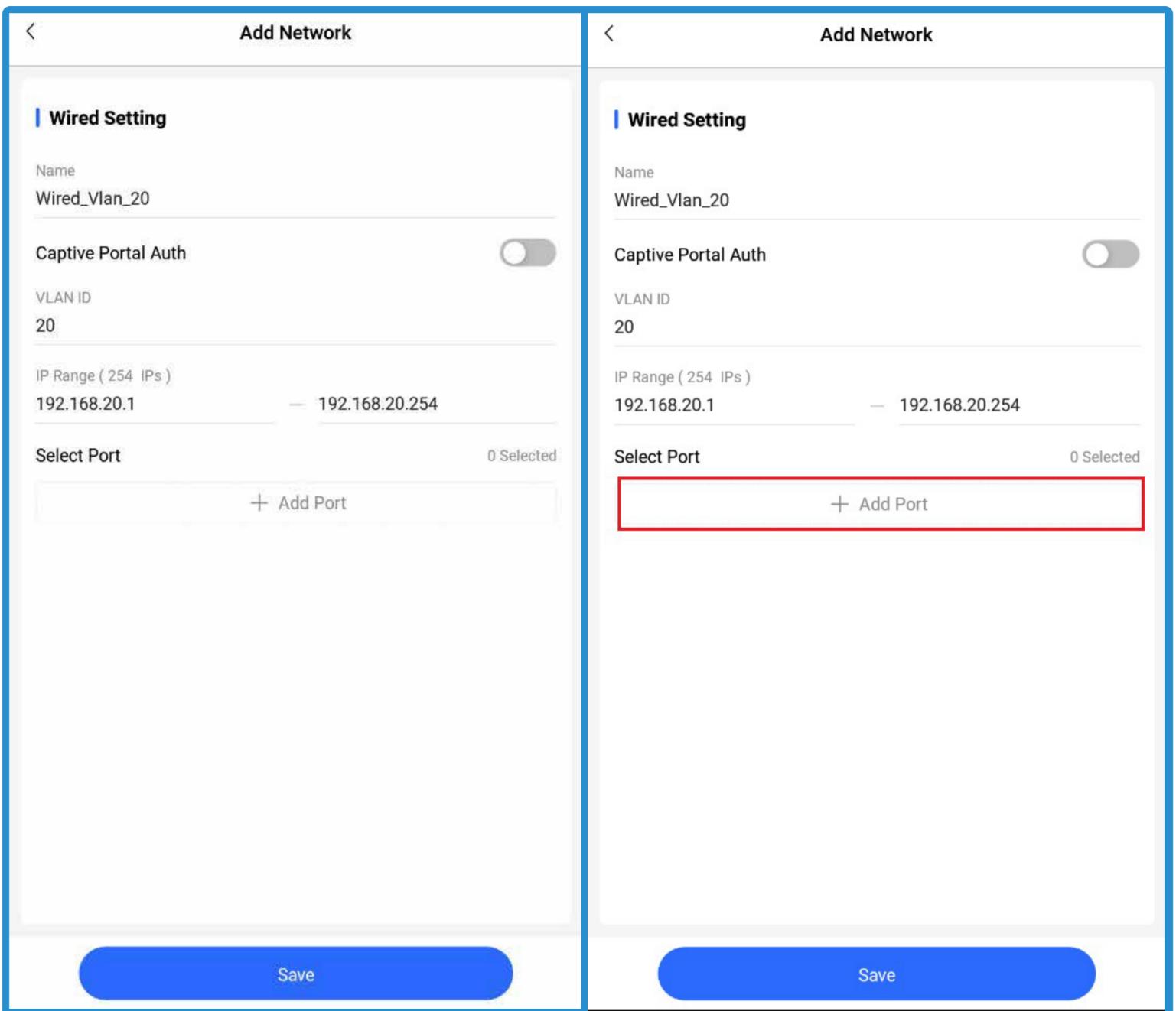
## 2 Wired Network

(1) Click **Add** and choose **Wired Network**

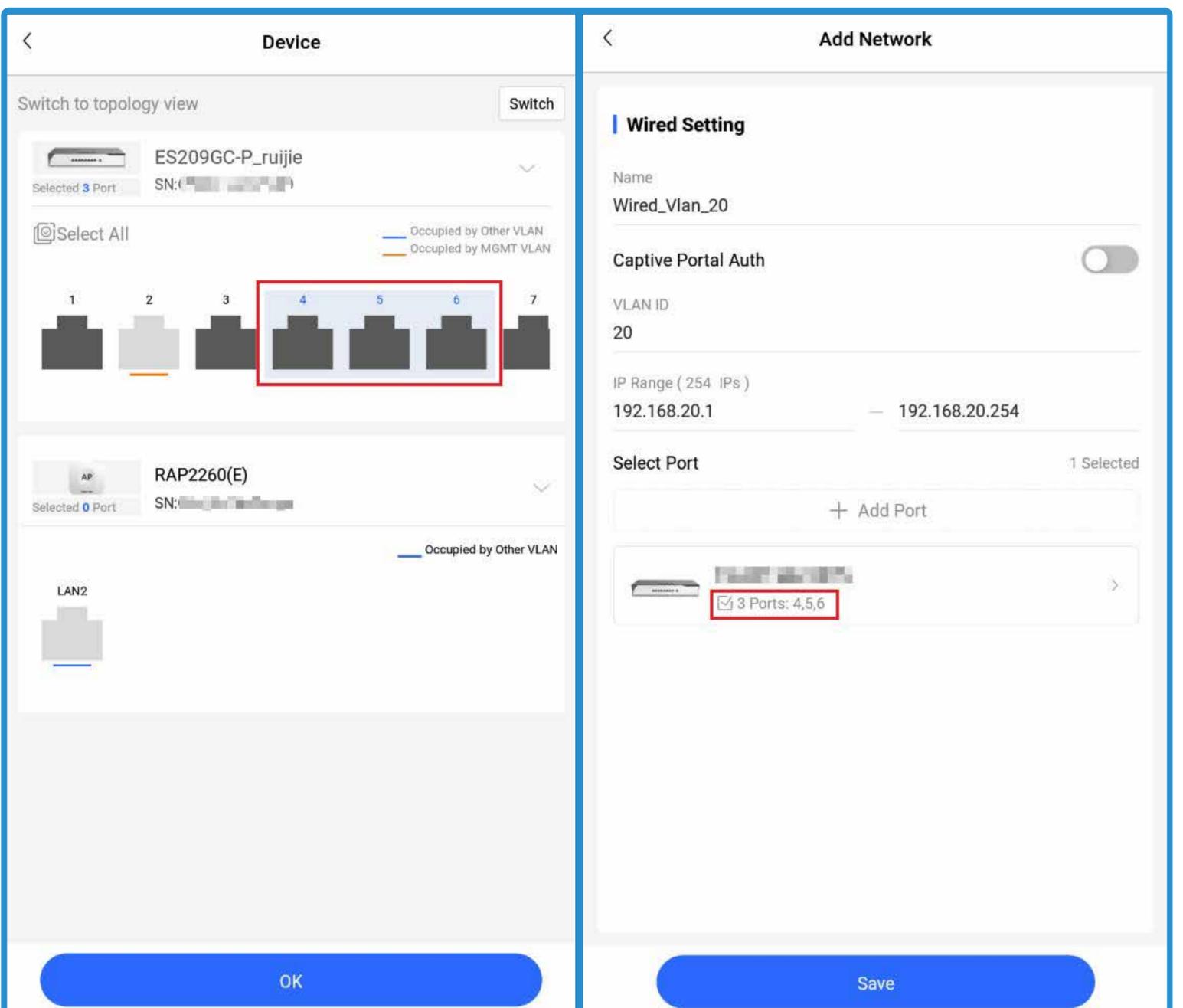


### III. Configure Steps

(2) Enter the Name as Wired\_Vlan\_20, VLAN ID as 20, IP range as 192.168.20.1–192.168.20.254 and click **Add Port** to select the switch port which VLAN 20 is to be applied.

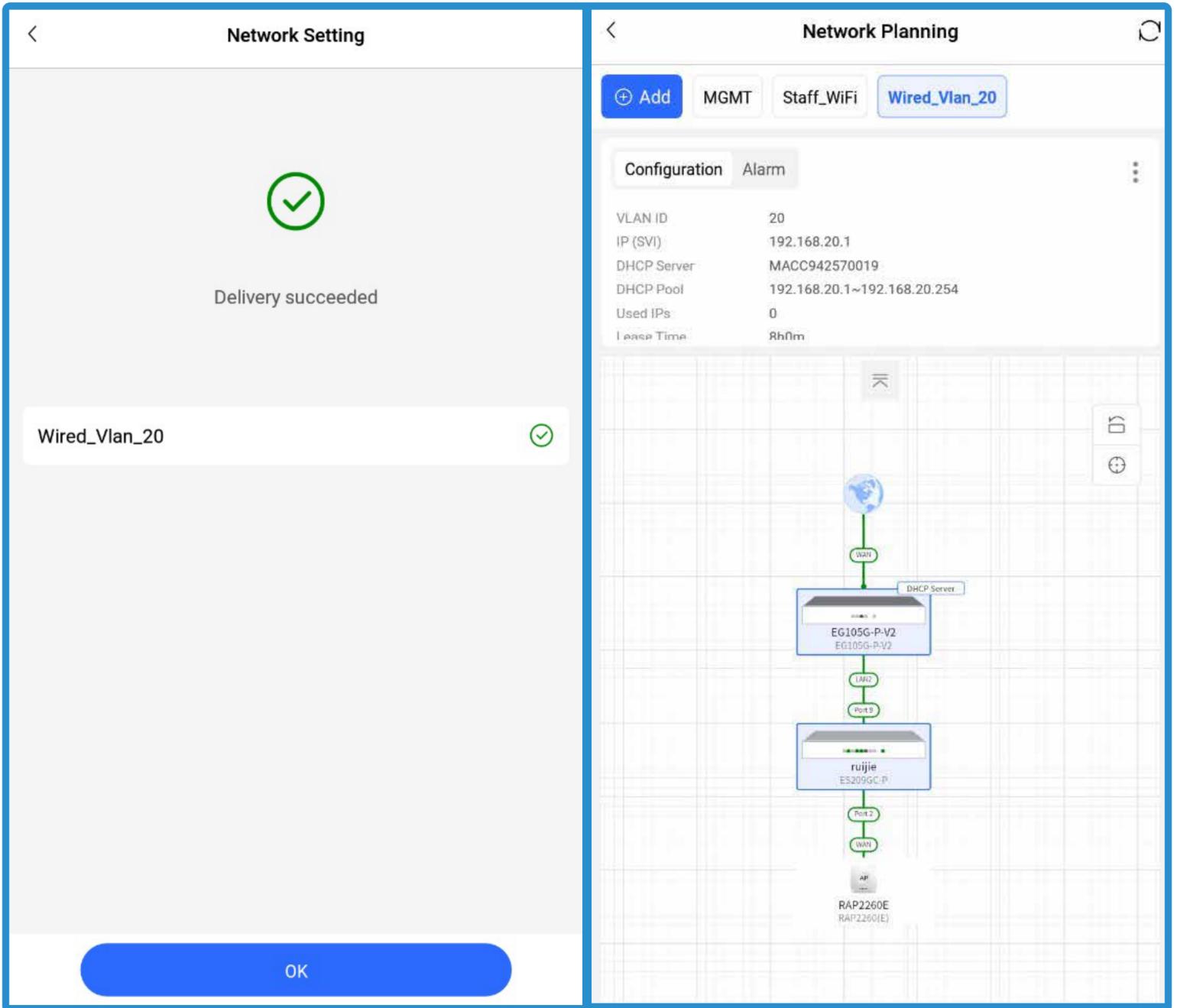


(3) Select ports 4, 5, and 6 to which VLAN 20 is to be applied.



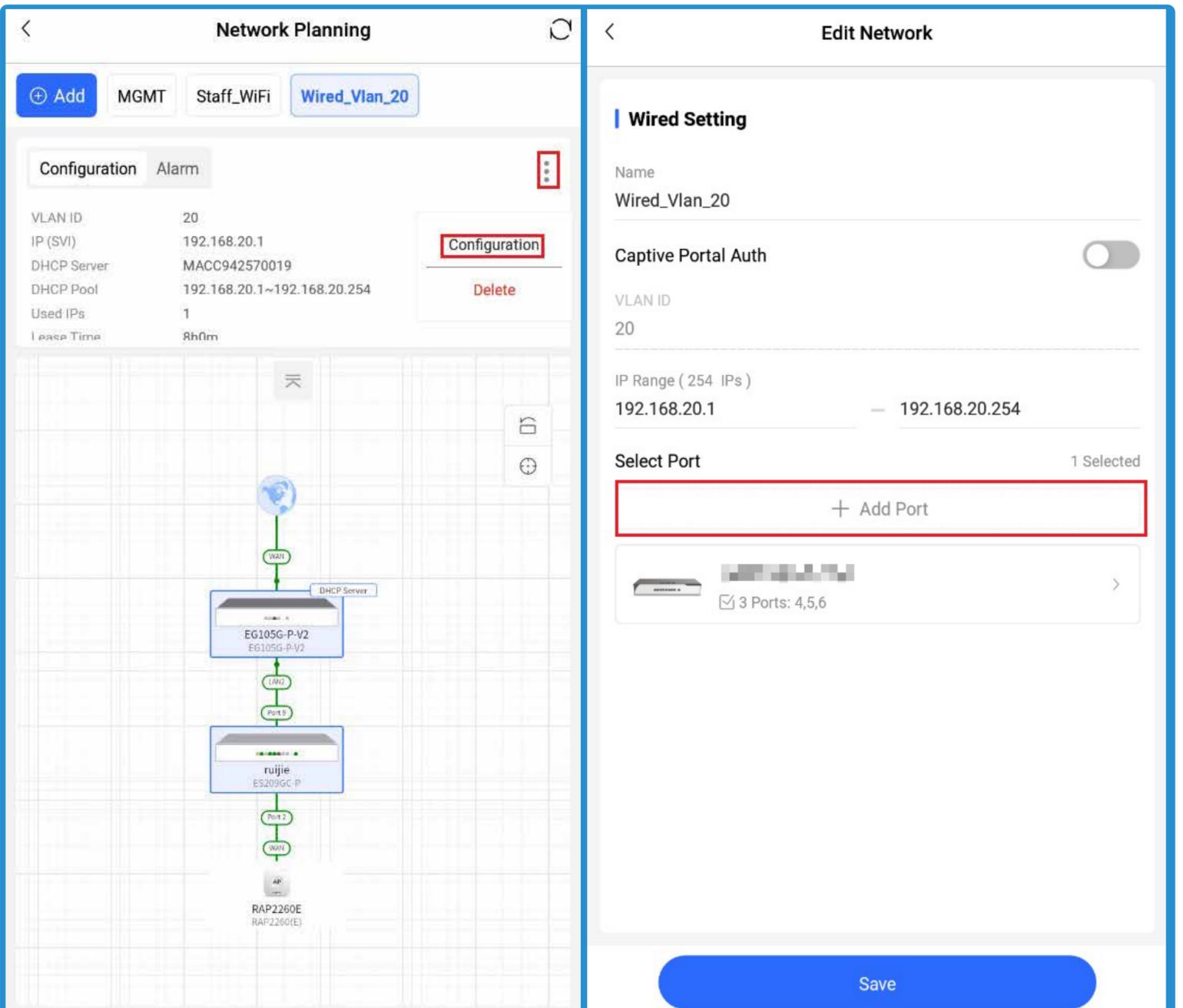
### III. Configure Steps

After the configuration is delivered successfully, the newly added Wired Network: Wired\_Vlan\_20 could be seen on the Network Planning page.



### 3 Configuration modification

(1) If the newly added terminals need to connect VLAN 20 ports or some ports do not need to use the VLAN 20, you can add or delete the ports by clicking **Configuration**.



### III. Configure Steps

When the Port 4, 5, 6 of the Switch need to apply to VLAN 20, you can click **Add Port** to change the VLAN 20 port as Port 1, 3, 4, 5.

- 4 Delete a network  
If the VLAN 20 doesn't need any more in the project, you can click "Delete" to delete it.

### III. Configure Steps

The first screenshot shows the 'Network Planning' interface for a network named 'Wired\_Vlan\_20'. The configuration table is as follows:

Configuration	Alarm
VLAN ID	20
IP (SVI)	192.168.20.1
DHCP Server	MACC942570019
DHCP Pool	192.168.20.1~192.168.20.254
Used IPs	1
Lease Time	8h0m

The network diagram shows a hierarchy: WAN -> EG105G-P-V2 (EG105G-P-V2) -> LAN2 -> Port 5 -> ruijie ES209GC P -> Port 2 -> WAN -> AP -> RAP2260E (RAP2260(E)). A 'Delete' button is highlighted in red.

The second screenshot shows the same interface with a 'Tip' dialog box overlaid:

**Tip**  
Are you sure you want to delete the network? The address pool, port VLAN and Wi-Fi will be deleted as well.

Buttons: Cancel, OK

The screenshot shows the 'Network Planning' interface for a network named 'Staff\_WiFi'. The configuration table is as follows:

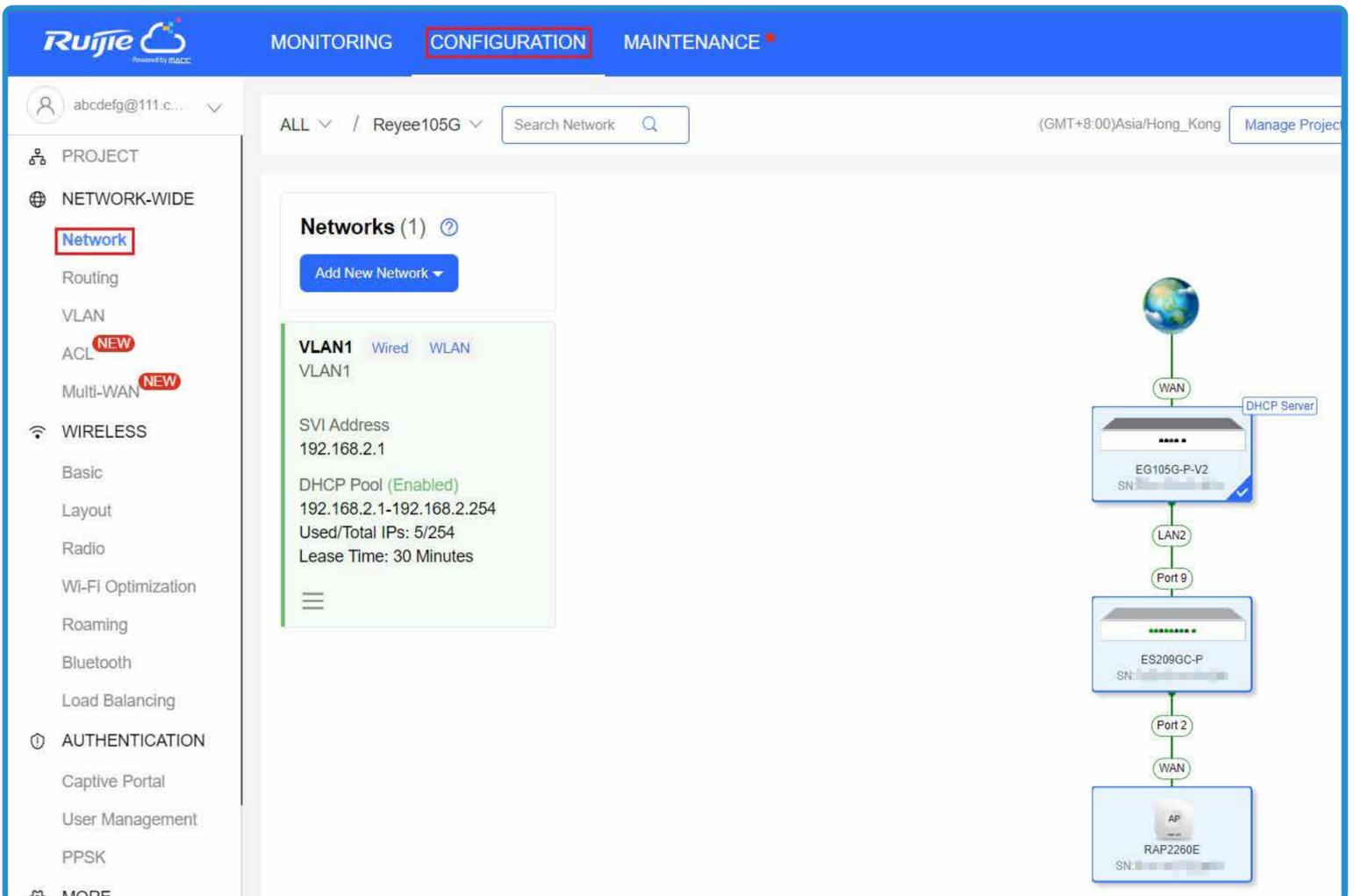
Configuration	Alarm
VLAN ID	233
IP (SVI)	192.168.2.1
DHCP Server	MACC942570019
DHCP Pool	192.168.2.1~192.168.2.254
Used IPs	5
Lease Time	30m

The network diagram is identical to the previous one. A 'Reyee105G' logo is visible at the bottom of the diagram area.

### Ruijie Cloud Web

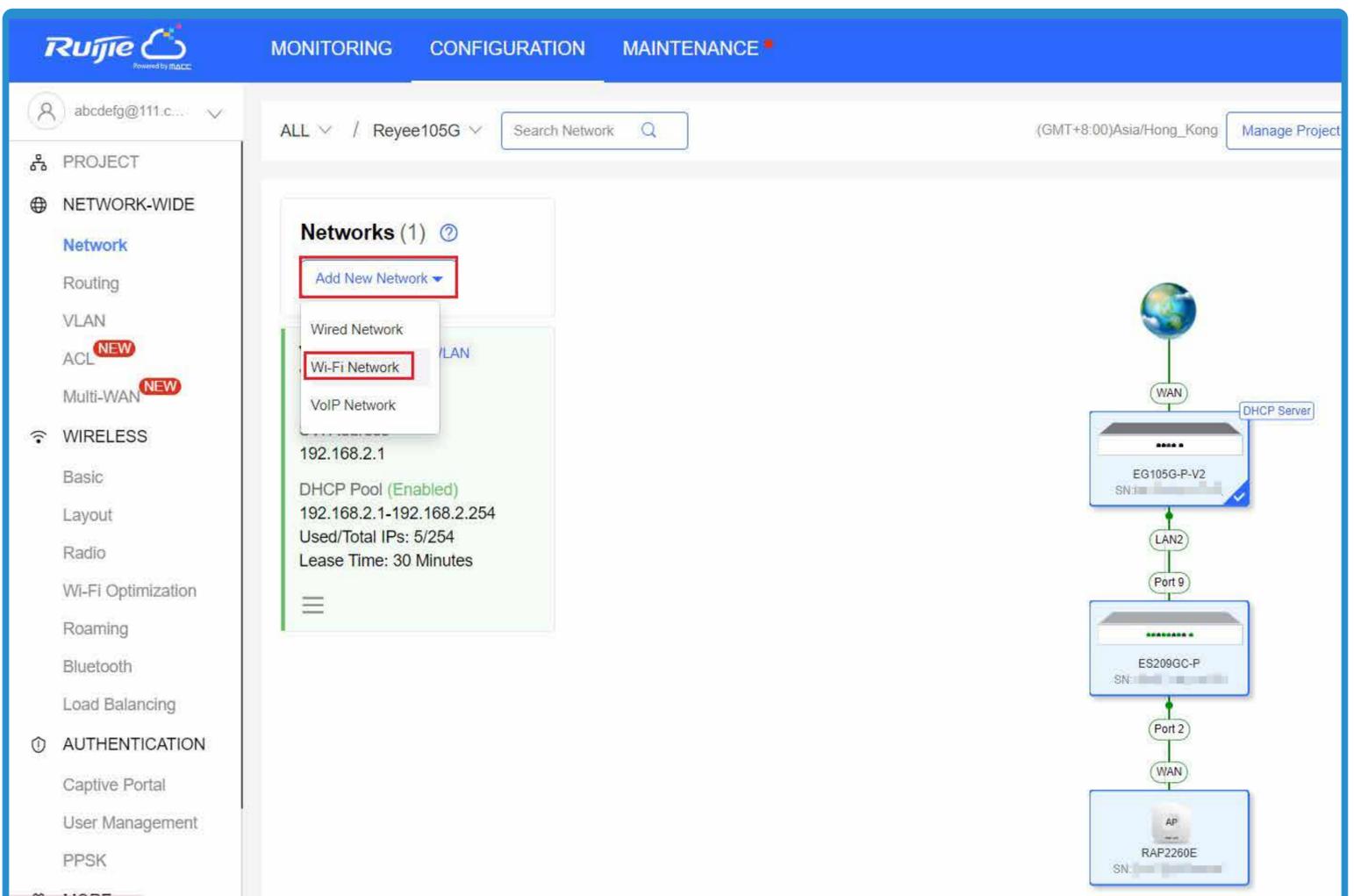
Path: CONFIGURATION > NETWORK-WIDE > Network

### III. Configure Steps

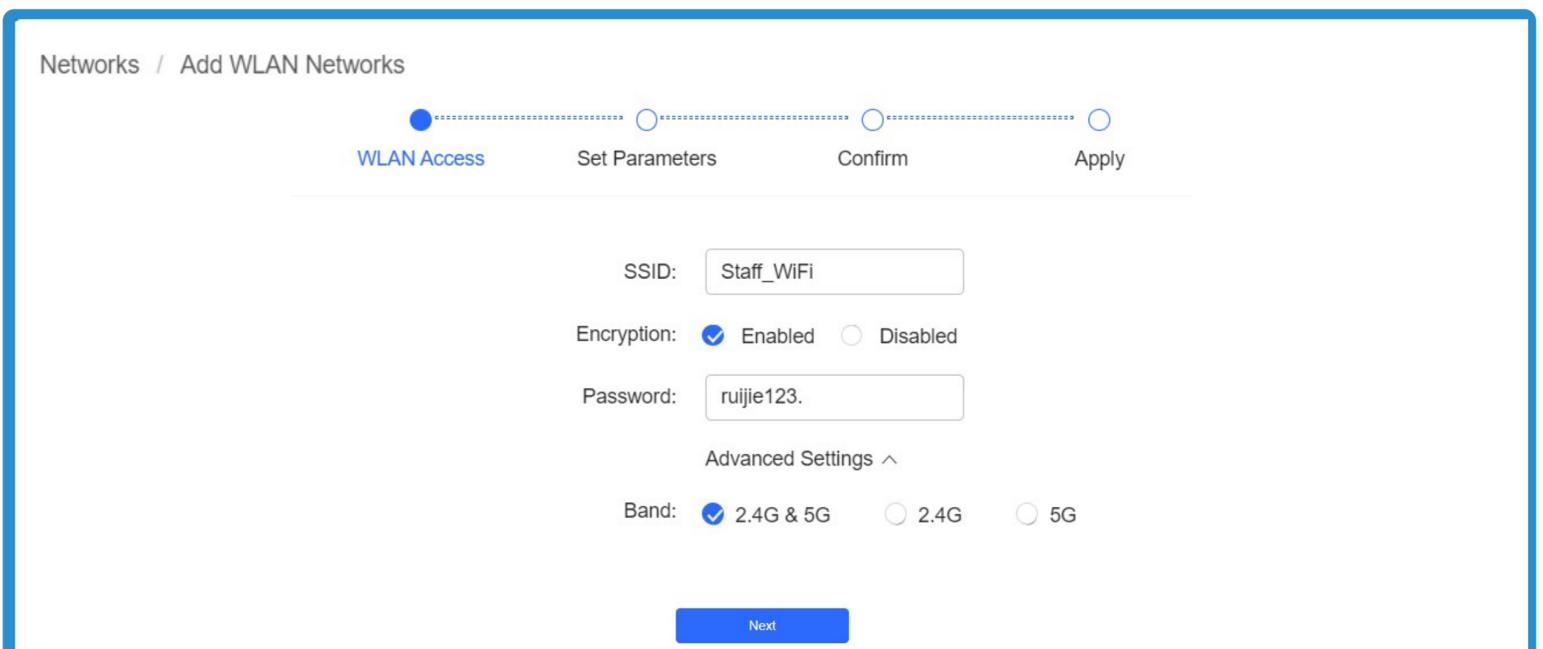


#### 1 Wi-Fi Network

(1) Click Add New Network > Wi-Fi Network.



(2) On the WLAN Access page, fill in the SSID as Staff WiFi and encryption, then click **Advanced Setting** to choose **Band**. In the last, please click **Next**.



### III. Configure Steps

(3) In the page of **Set Parameters**, fill in the Description as Staff\_WiFi\_Vlan10, VLAN ID as 10, and Default Gateway/Subnet Mask as 192.168.10.1/255.255.255.0. Enable the DHCP Pool and configure the IP Segment, Select Assign IP from Gateway (Router) and click **Next**.

Networks / Add WLAN Networks

Progress: WLAN Access (Completed) | **Set Parameters** (Active) | Confirm | Apply

Description:

VLAN ID:  [Select](#)

Default Gateway/Subnet Mask:  /

DHCP Pool:  [i](#)

IP Segment:  -

Assign IP from:  Gateway (Router)  
Usually for L2 network.

### Notice

**When establish the Wi-Fi network on the Web, you can't configure the rate limit directly, but you can log in to the eWeb page of Reyeeg EG to configure it.**

(4) In the confirm page, Ruijie Cloud will deliver the needed configurations to the devices based on the configuration of the first two steps. If there are something wrong, you can click **Back** to back to the previous steps to modify the configuration. If the configuration is right, the configurations will be delivered to the devices after you clicking **Apply**.

Networks / Add WLAN Networks

Progress: WLAN Access | Set Parameters | **Confirm** (Active) | Apply

To ensure that the network (Staff\_WiFi\_Vlan10 VLAN10 192.168.10.1-192.168.10.254) takes effect, 1 devices will be configured automatically. configuration will be delivered to 3 devices:

- 1 AP: SSID Staff\_WiFi, password ruijie123.
- EG105G-P-V2: Add port VLAN10, IP 192.168.10.1, subnet mask 255.255.255.0. Add address pool VLAN10, start address 192.168.10.1, end address 192.168.10.254, DNS 192.168.10.1, lease time 480 mins
- ruijie: Add VLAN 10 [Auto Configuration]. The port Port 2,Port 9 is configured as the Trunk port, Native VLAN ID 1, Allowed VLAN ID 1,10 [Auto Configuration]

Networks / Add WLAN Networks

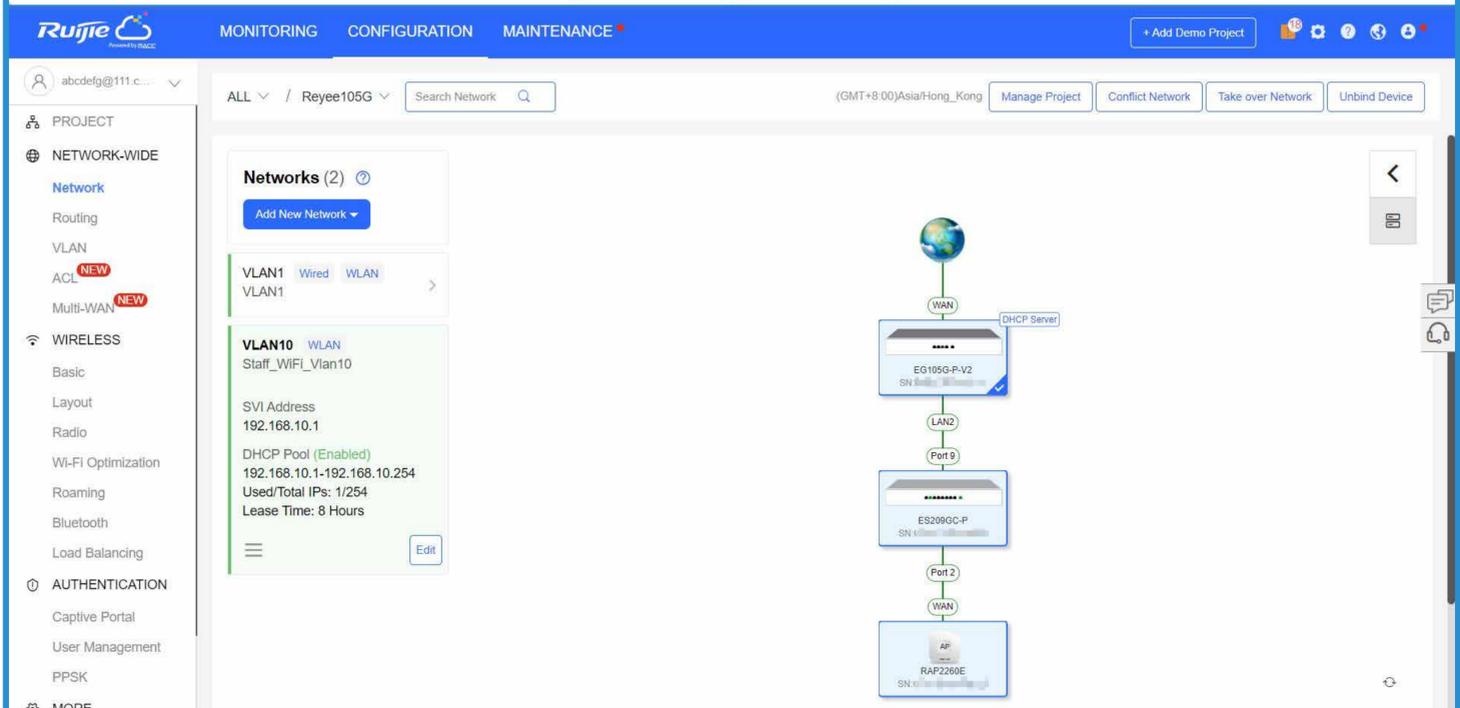
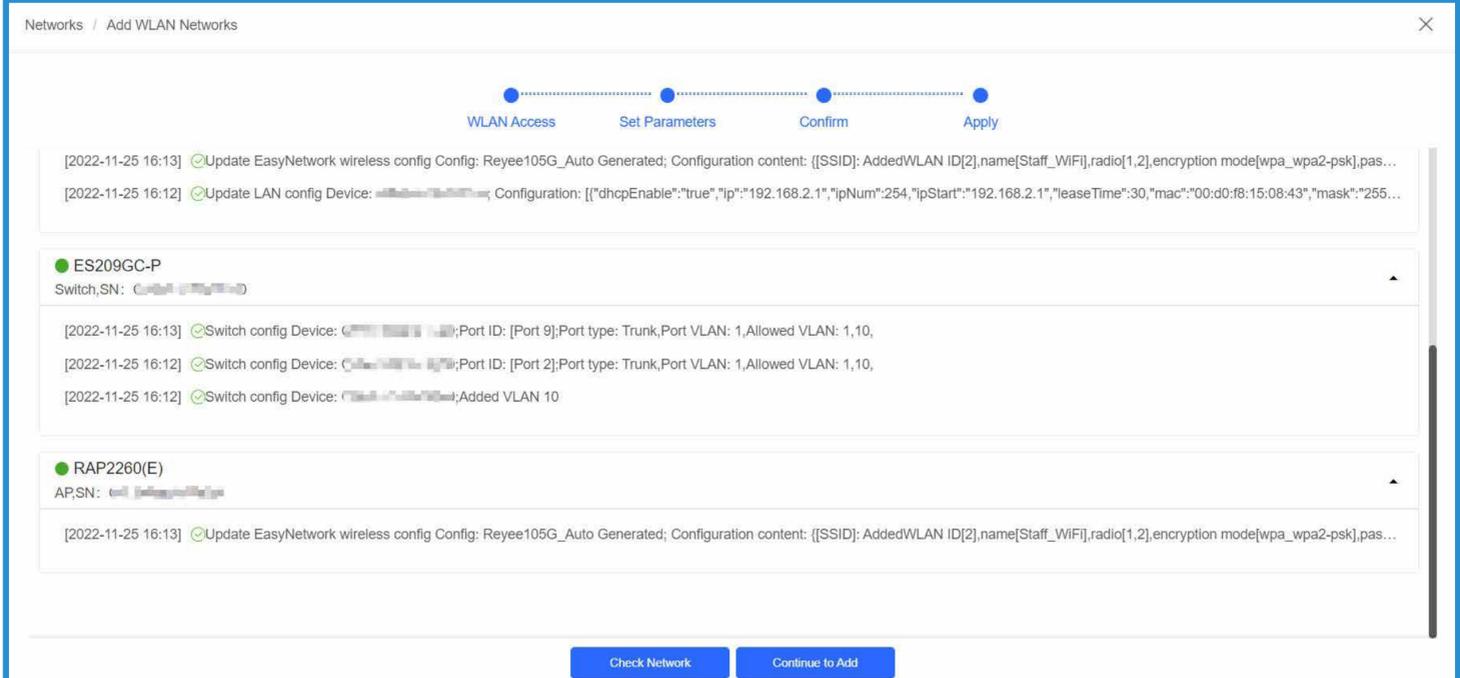
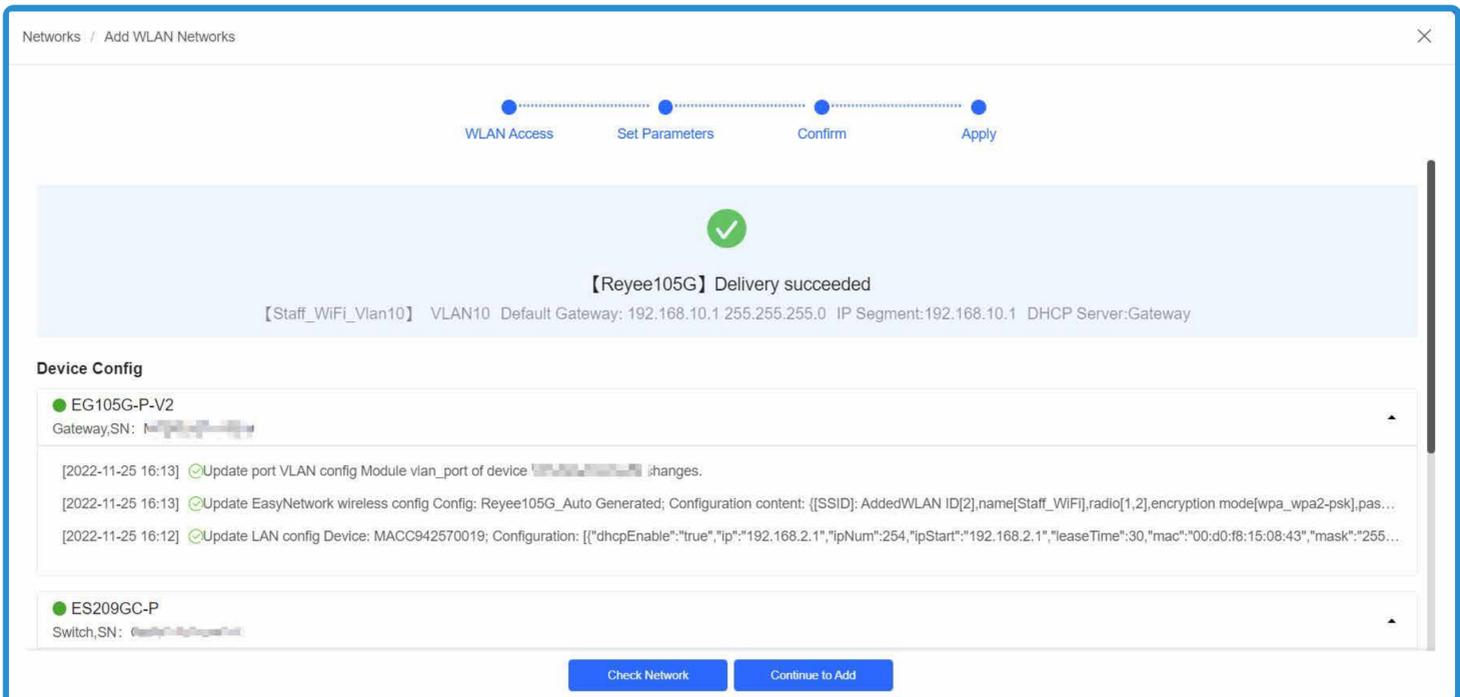
Progress: WLAN Access | Set Parameters | Confirm | **Apply** (Active)

60s **[Reyee105G] VLAN 10 (Staff\_WiFi\_Vlan10)**  
Delivering...Please wait.

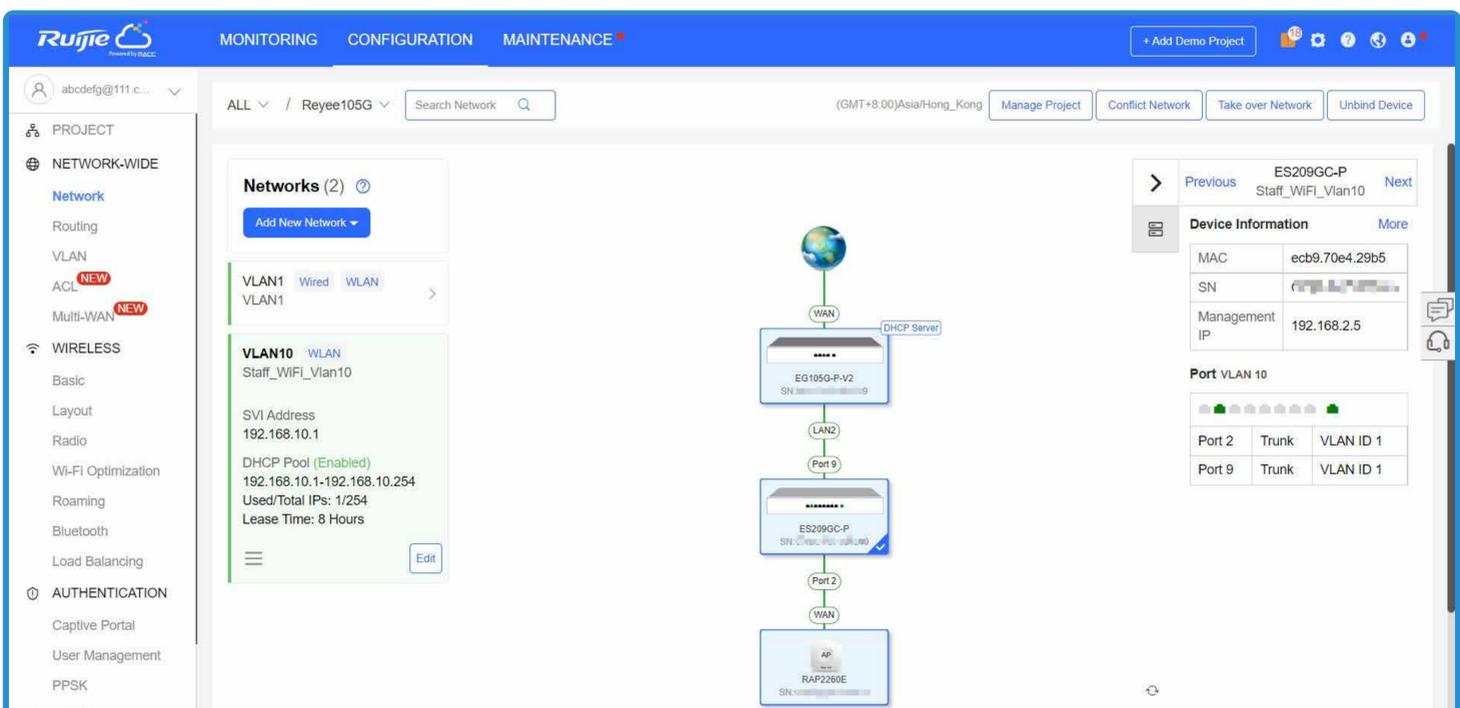
- Network Config**  
Delivering...
- Device Config**

### III. Configure Steps

(5) After the configuration is delivered successfully, you can click **Check Network** to check the network configuration or to add devices by clicking **Continue to Add**.



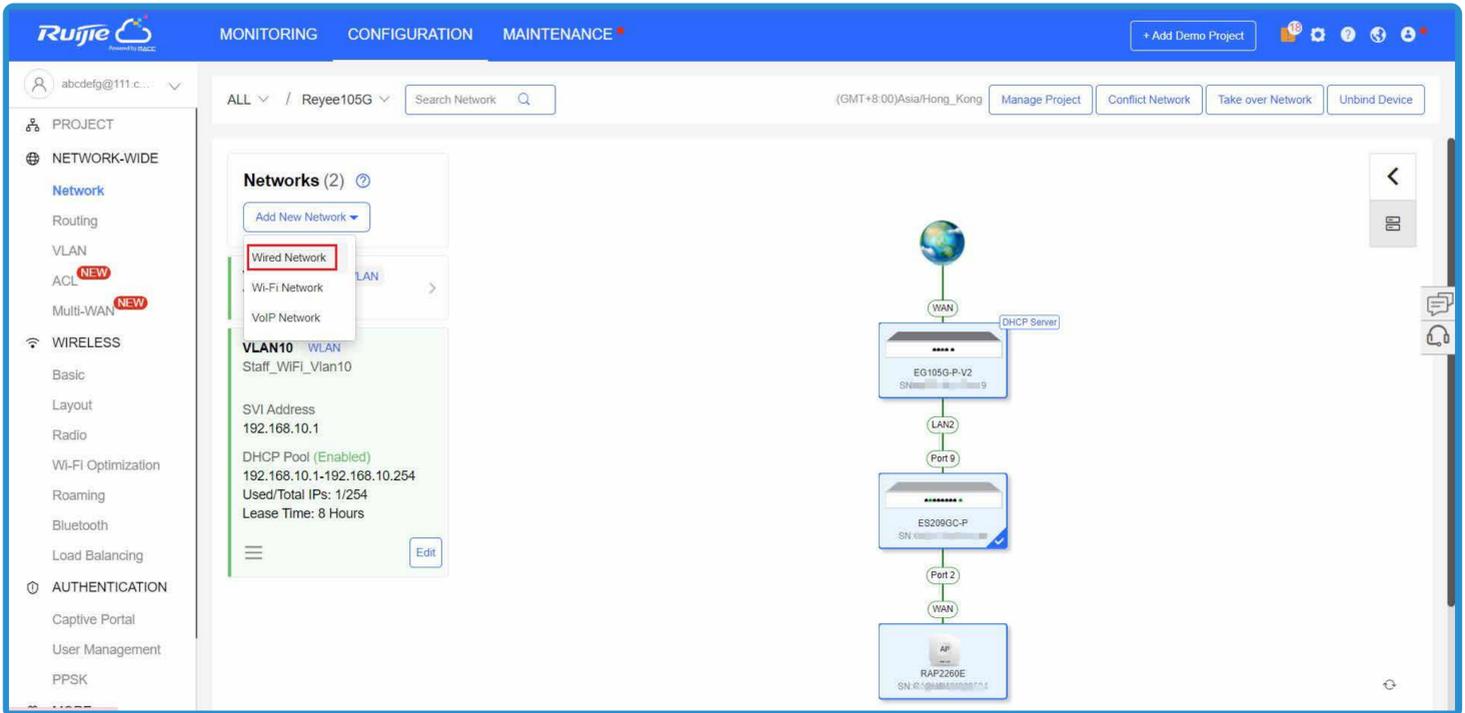
(6) On the Network page, the devices applied to VLAN 10 will be selected by the blue box when you click VLAN 10. You also can check the port's VLAN configuration by clicking switch.



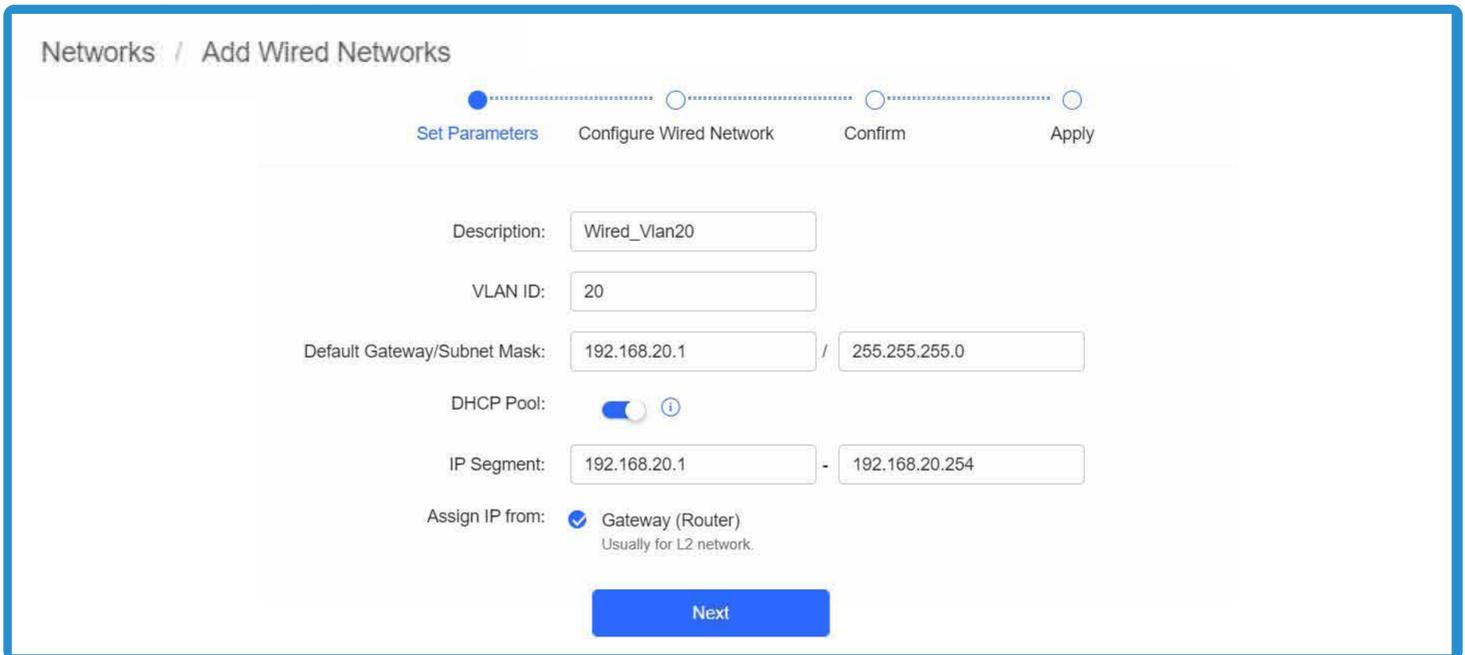
### III. Configure Steps

#### 2 Wired Network

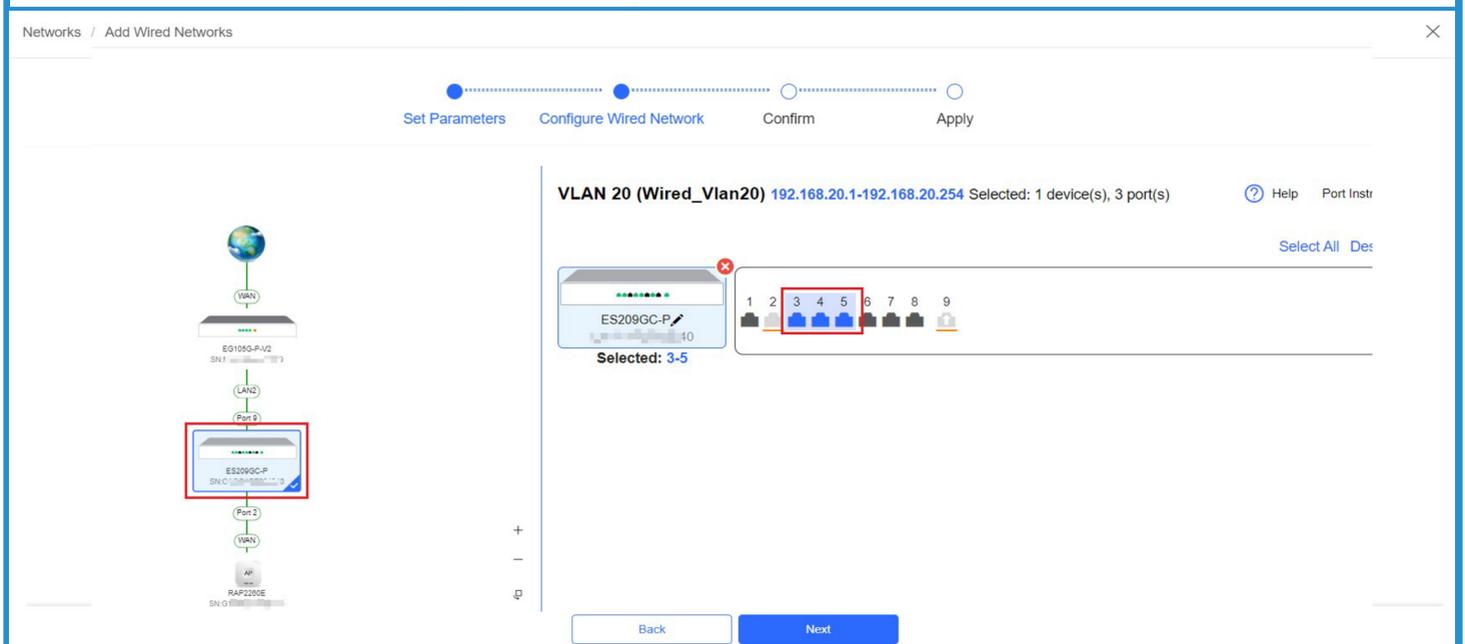
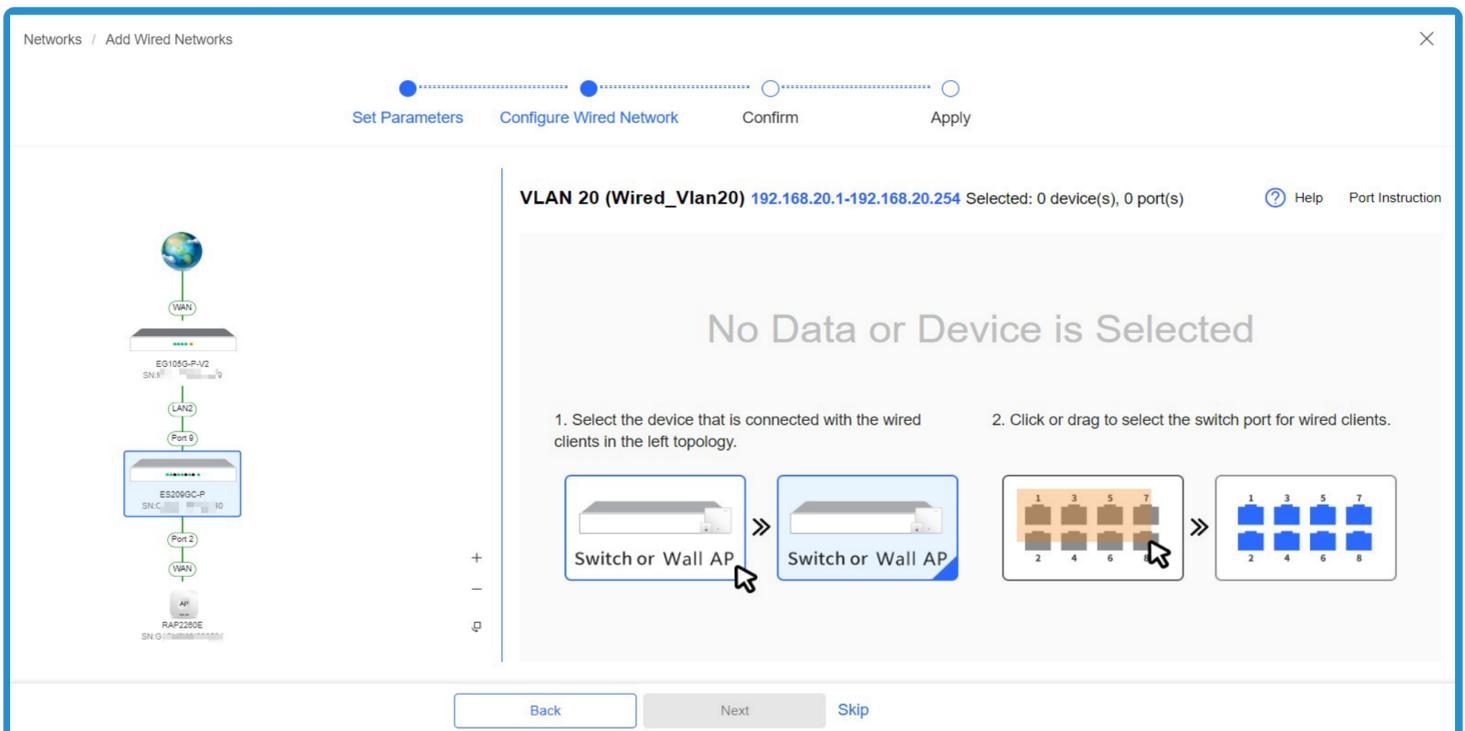
(1) Click Add New Network > Wired Network.



(2) On the page of **Set Parameters**, fill in the Description as Wired\_Vlan20, VLAN ID as 20, and Default Gateway/Subnet Mask as 192.168.20.1/255.255.255.0. Enable the **DHCP Pool** and configure the IP Segment, Select Assign IP from Gateway (Router) and click **Next**.



(3) On the page of Configure Wired Network, choose the switch which needs to configure VLAN 20 and the port which need to apply, then click **Next**.

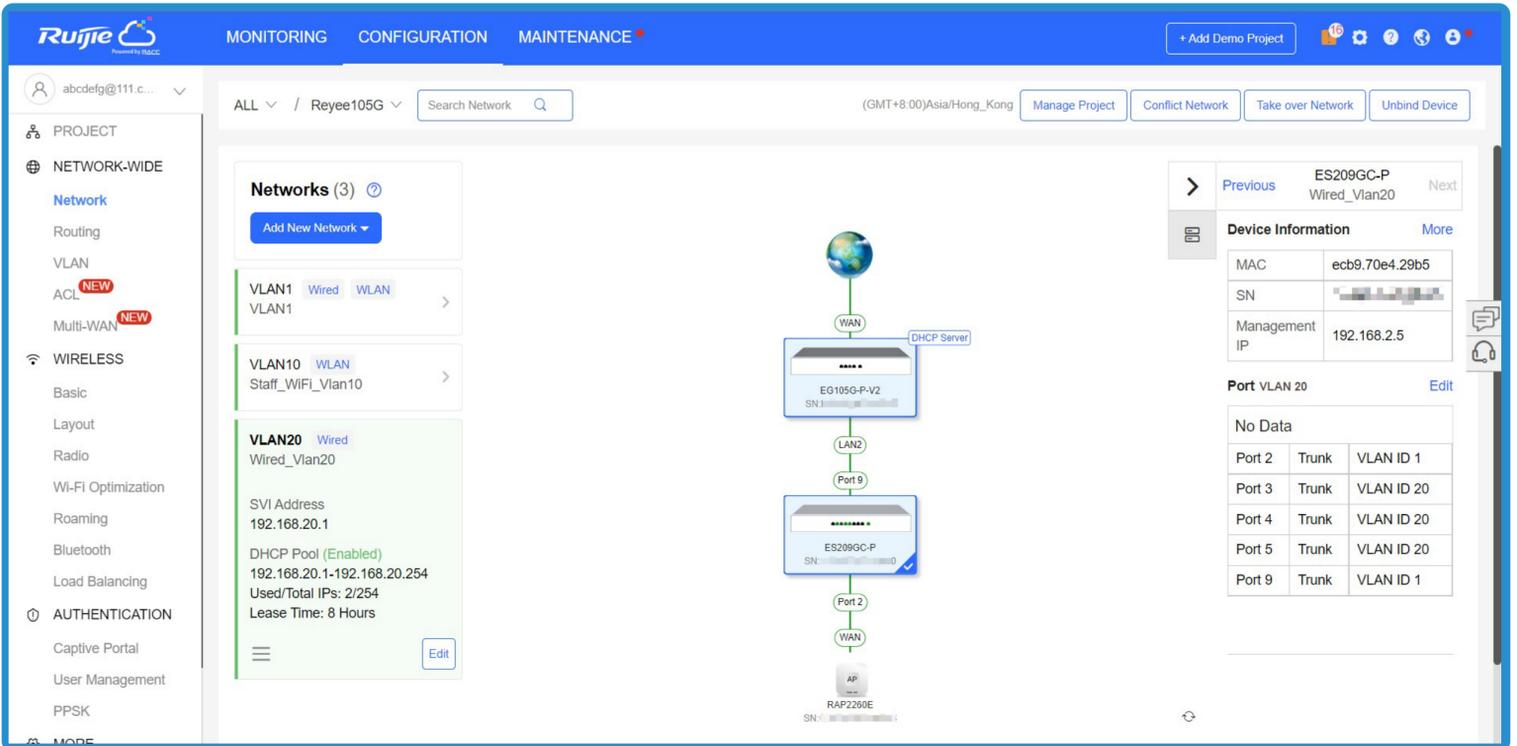


### III. Configure Steps

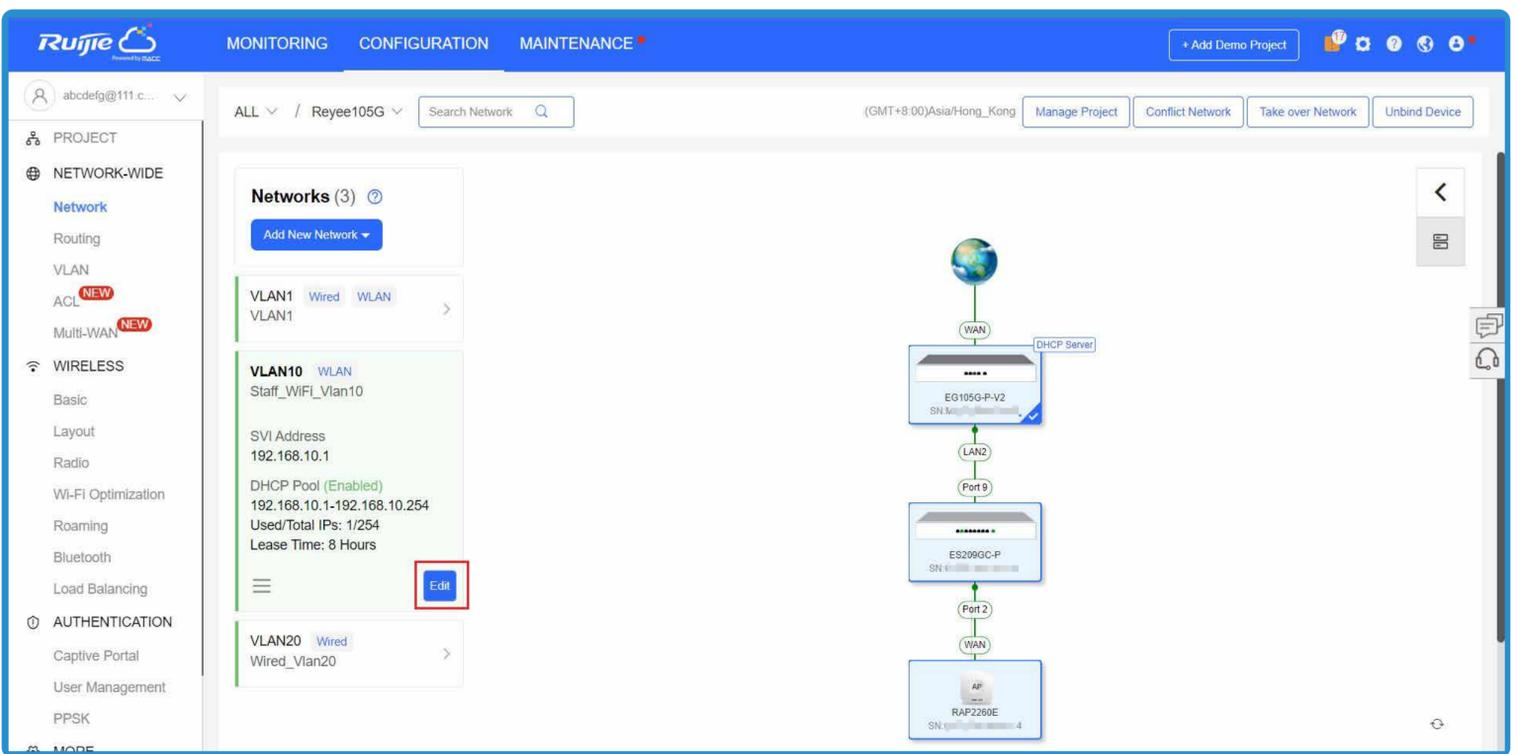
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(5) After the configuration is delivered successfully, you can click **Check Network** to check the network configuration or to add devices by clicking **Continue to Add**.

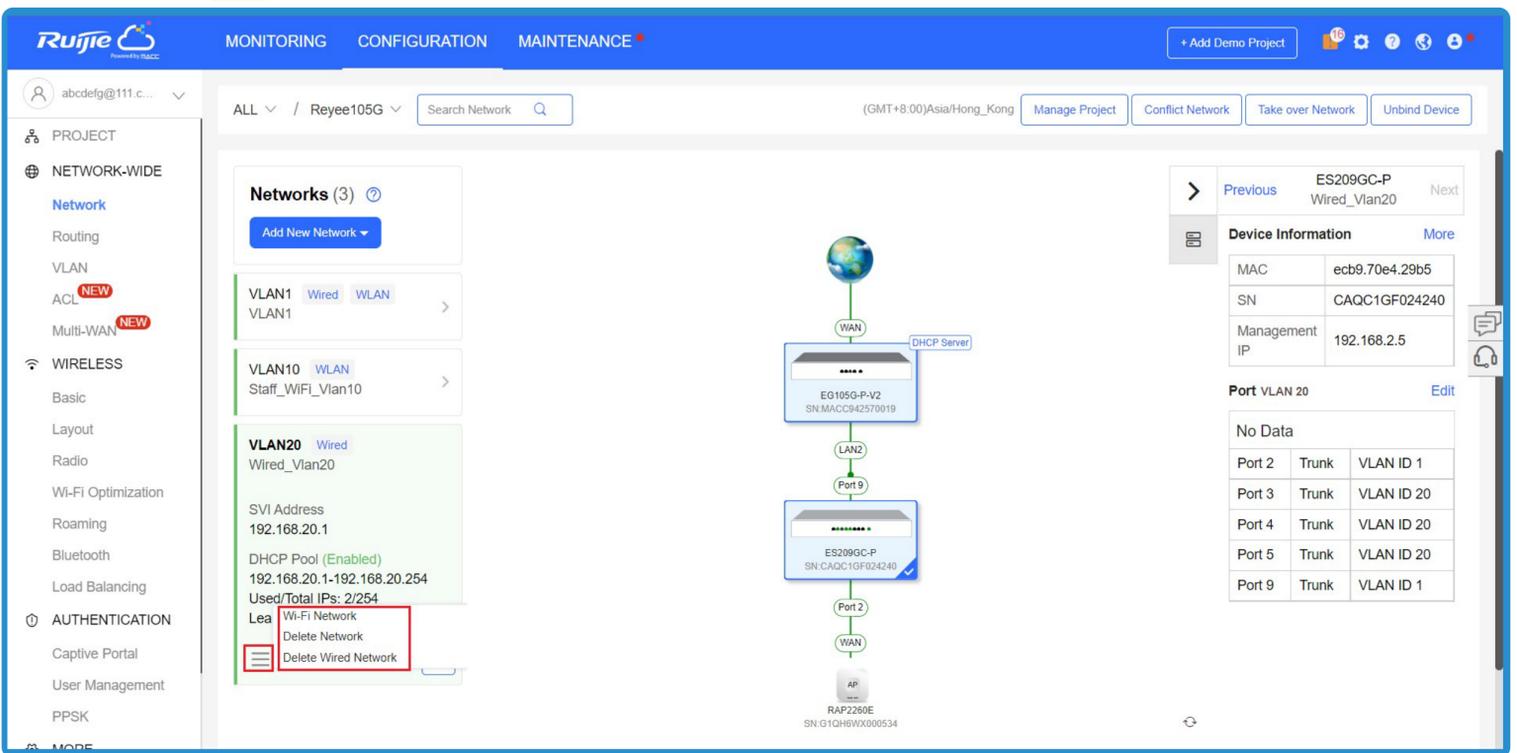
### III. Configure Steps



**3 Edit the configuration**  
You can modify the network configuration by clicking **Edit**.



**4 Delete Network**  
Click **≡** to create other types of Network or delete a Network.



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YouTube Training