

RAK475 Use Guidance

Creating an AP Network via Web

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1. Configuring the Router via Web

1.1 Overview

This section describes how to configure the module to a specified router via web in AP Mode.

1.2 Operating instructions

Tips:

1. This demo is done on the RAK475 development board.
2. The module in this demo is under factory settings.

Please keep in mind the abovementioned points, for they will not be mentioned later.

1.3 Steps

1. When you power on the module in Factory Mode, it will set up an open AP network named **RAK475_AP_XXXXXX** (xxxxxx is the last six digits of the MAC address of the module). The IP address of the AP is **192.168.7.1** and its **DHCP Server** function is enabled by default (factory parameters can be modified). After the **Status indicator** lights up, turn on the computer's wireless network, and **RAK475_AP_XXXXXX** can be found in the list of wireless networks, as shown in Figure 1-1:



Figure 1-1: Factory AP Scanning

2. Double click to join this network (the **Link indicator** will light up). Once its IP address is successfully assigned, open the browser and enter the module's gateway address **192.168.7.1**. In the pop-up authentication window, enter the default **username: admin** and **password: admin**. As shown in Figure 1-2:

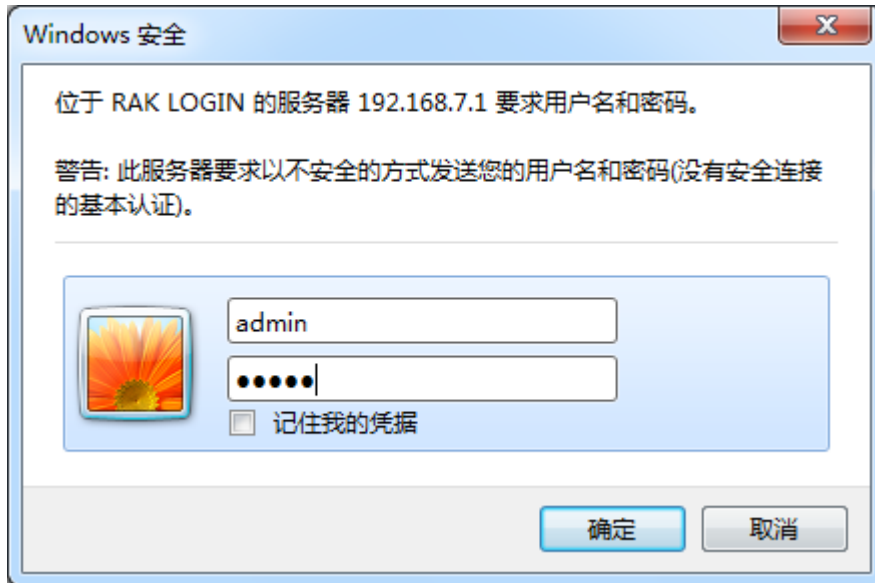


Figure 1-2: WEB Authentication

3. Click **OK** to enter the **WEB Server** configuration page.

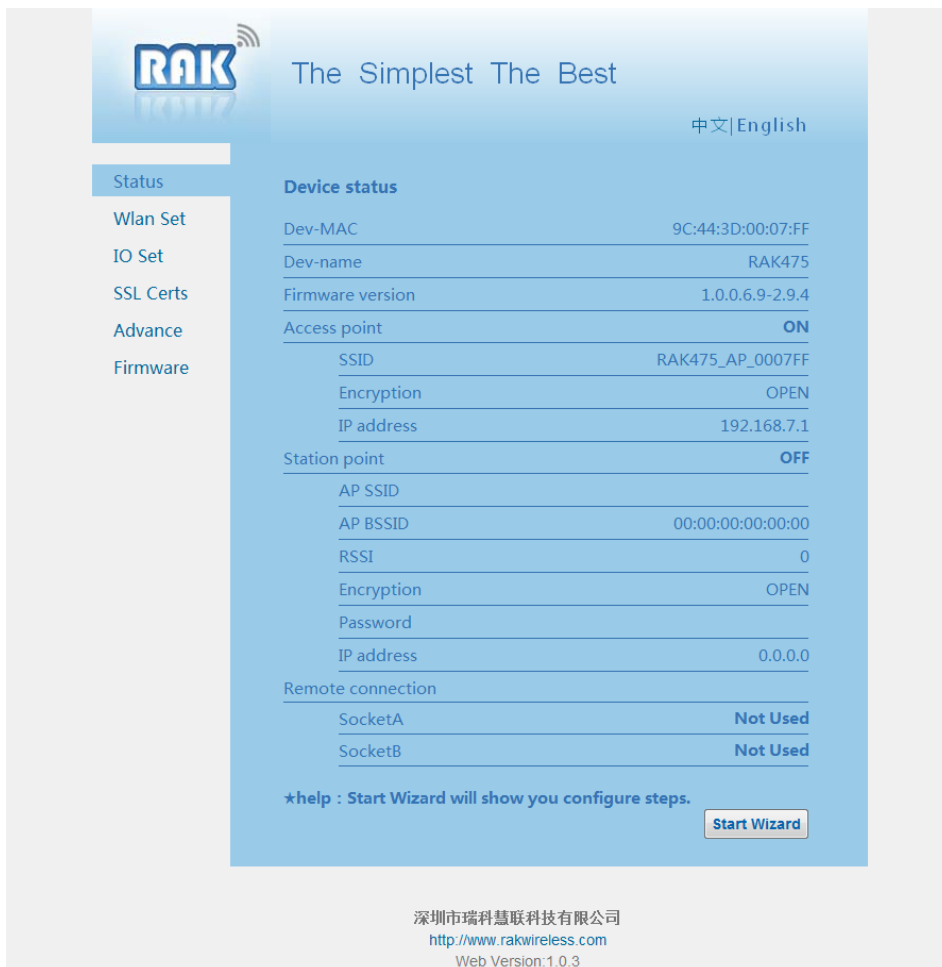


Figure 1-3 WEB Server Configuration Page

4. Follow these steps on the **Wlan Set** page:

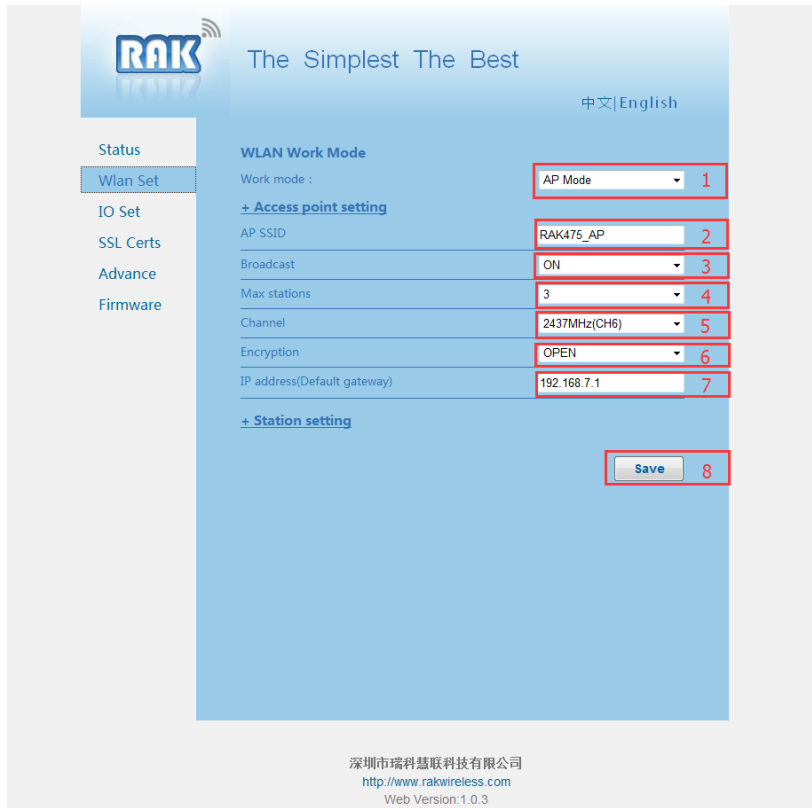


Figure 1-4 Wlan Set Page

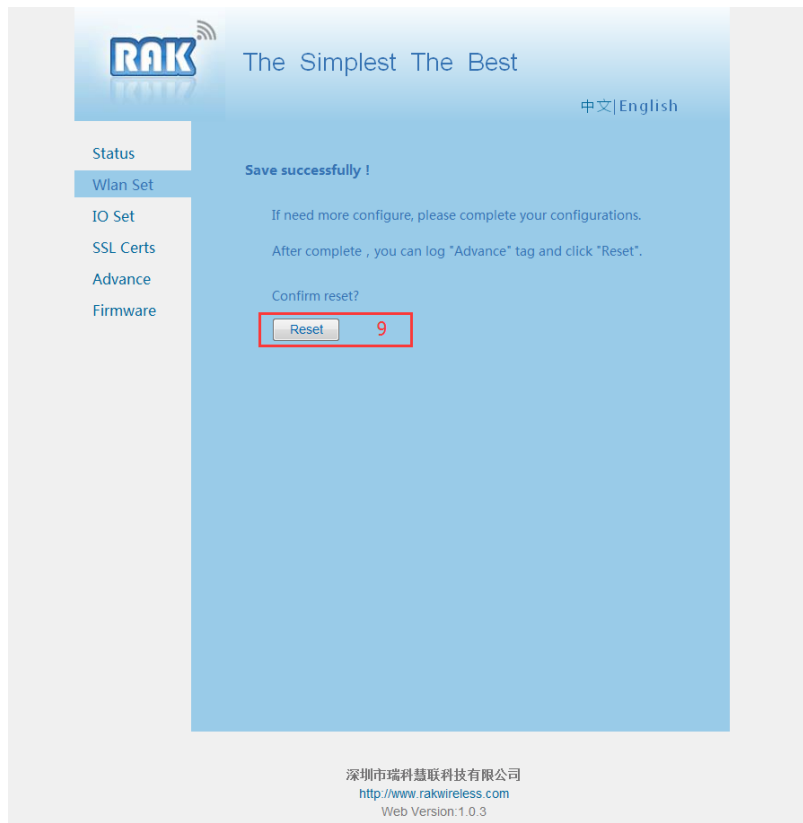


Figure 1-5

- 1) **Work mode:** set to **AP Mode**;
- 2) **AP SSID:** the name of the AP to be created. We name it **RAK475_AP** here, as shown in Figure 1-4;
- 3) **Broadcast:** you can choose to either enable or disable SSID. If disabled, the SSID will be hidden;
- 4) **Max stations:** maximum number of connections. This function is currently not available;
- 5) **Channel:** select auto or any channel;
- 6) **Encryption:** if you select **OPEN**, no password for the AP network is required; if you select **Encrypt**, you need to set a password here;
- 7) **IP address:** enter the IP address of the module. **192.168.7.1** by default.
- 8) Click **Save** to jump to the next page.
- 9) Click **Reset** to write the configuration into the module automatically, and a pop-up page will show you that the setup was successful, as shown in Figure 1-6.

Note: *Because the configuration is not finished yet, do not reset the module or cut the power off at this moment.*

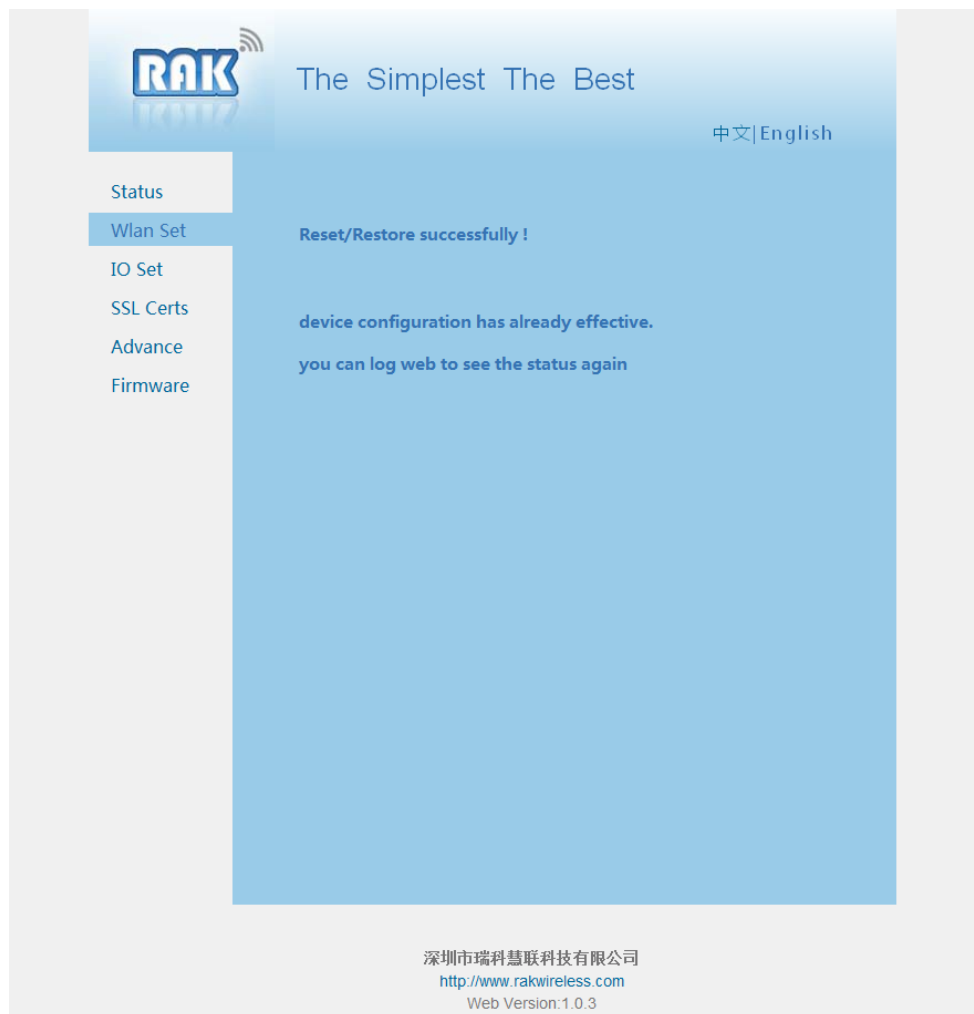


Figure 1-6 Parameter Setup Successful

5. Check the list of wireless networks on the PC, and you will find that the AP was successfully created



Figure 1-7: AP Created Successfully

Version

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