

AP Controller

AC1000

User Manual



V2.0

Be Honest & Do Best

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1. Introduction

1.1. Overview

The AC1000 series features a controller with localized small to medium-sized LAN centralized configuration, management, and status monitoring capabilities, along with integrated unified management functionality for wired devices. It supports both AC functions, such as wireless AP management, wireless internet control, wireless authentication management, and wireless security management, as well as centralized network control functions, including intelligent network initialization, comprehensive network management, automatic device discovery, and network operations and maintenance.

The product's WAN and LAN ports are designed with Gigabit Ethernet ports. Compared to traditional 100 Mbps ports, the wired transmission rate is increased by ten times, making it suitable for broadband access of 100 Mbps and above, especially for mainstream fiber optic broadband access.

The design of the product aims to provide home and small business users with a wireless coverage experience comparable to professional commercial-grade solutions. The product's hardware and software design balances the professionalism of commercial WiFi network solutions with the convenience required for small-scale applications. By streamlining the device installation and configuration steps, it is made to easily serve home and small to medium-sized enterprise applications.

1.2. Features

- MTKT7621AT MIPS1004Kc (880 MHz) dual-core CPU, adopting high-performance processor can provide more stable network and faster transmission rate.
- Supported standard: IEEE802.3, IEEE802.3u, IEEE802.3ab.
- Equipped with 1*10/100/1000M WAN, 4*10/100/1000M LAN (PoE output), auto MDI/MDIX.
- Metal shell can provide heat dissipation and effectively shields electromagnetic interference.
- Support multiple installations: Desktop, DIN rail mounting, wall mounting, 1U Rack Mount: Standard 19-inch cabinet type(only for AC1000).
- Rich hardware interface: 1*USB2.0, 1*USB3.0, 1*console, 1*reload button.
- Manages up to 200 wireless access points, and 100 users as gateway.
- Support router mode and AP mode.
- Support DHCP, PPPoE, static IP in router mode.
- Support WAN/LAN switching, and multi-WAN settings.
- Supports multiple services: HTTP, NAT, QOS, etc.
- Can be centrally managed through the PUSR cloud.
- Can monitor each access point and connection status of network devices.
- Support reset to factory settings via reload button.

- Support OpenWrt system customization.

1.3. Specification

Table 1. Parameters table

Model	AC200	AC1000
Processor	MTK MT7621AT	
DDR	DDR3 2Gbit	
FLASH	Nor Flash 64Mbit	
POE	RTL8234B	None
EEPROM	BL24C64A	
Power		
Power	Power adapter Input: 100 – 240 V AC, 50/60 Hz Output: 53.5VDC/1.22A	100~240V 50/60Hz AC
Power consumption	≤5W	≤12W
Hardware		
WAN	1*RJ45, 10/100/1000M, auto MDI/MDIX	
LAN	4*RJ45, 10/100/1000M, auto MDI/MDIX 48V PoE out, IEEE 802.3af, IEEE 802.3at standard	4*RJ45, 10/100/1000M, auto MDI/MDIX
Console port	1* Micro USB	1*RJ45
USB	/	1*USB2.0+1*USB3.0
Reload	Reset to factory settings	
Indicators	Power, work, Ethernet port indicator	Power, work, USB, Ethernet port indicator
EMC Protection	IEC 61000-4-2, level2, ESD IEC 61000-4-4, level2, EFT IEC 61000-4-5, level2, surge	
Software		
Work Mode	Router mode, AP mode	
Management	HTTP Web based GUI Local or online Firmware upgrade Configuration Backup / Restore Centrally managed through the PUSR cloud	
AP Management	Manage up to 200 access points Manage up to 100 end users Centrally and remotely to manage/configure wireless AP View user's status	

Others	IP binding Port mapping WAN/LAN switching, and multi-WAN settings Multiple services: HTTP, NAT, QOS, etc OpenWrt system customization	
Physical Parameters		
Dimension	110*95*25mm	440*250*44.5mm
Installation	Desktop, wall mounting, DIN rail mounting	Desktop/1U Rack Mount
Operating Temperature	0°C ~ 45°C	
Storage Temperature	-40°C ~ 75°C	
Operating Humidity	5 ~ 95 %(non-condensing)	

1.4. Button & Indicator

Table 2. Button & Indicator

Item	Description
Power Indicator	On: Power on, Off: Power off.
Reset Button	Holding for 5s to reset to factory settings
ETH link/data indicator	Link: there is ETH device connected. Data: Transmitting/receiving data.
Internet	Green: accessing to internet successfully.
USB	Green: there is USB device connected.

1.5. Dimension

Unit: mm

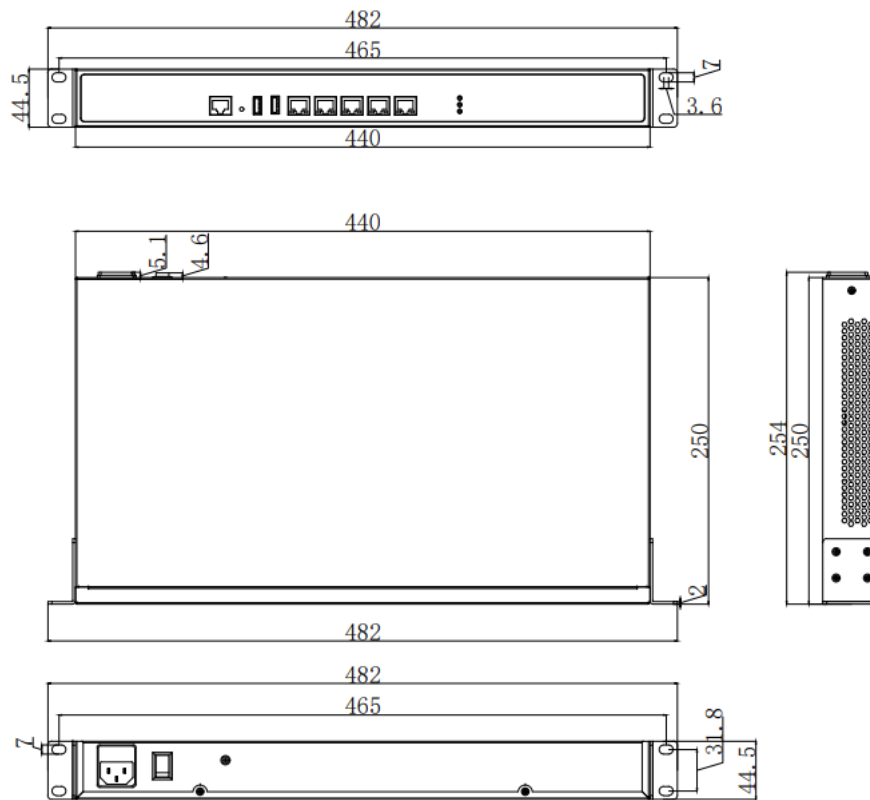


Figure 1. Dimension of AC1000

2. Get Started

2.1. Login setting webpage

Connect PC to the LAN port of the AP controller, and set the IP to static IP, such as 192.168.1.101. The IP should be on the same network segment as the AP device.

You can test whether the network is connected by ping 192.168.1.1.

```

命令提示符
Microsoft Windows [版本 10.0.22621.2715]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\86189>ping 192.168.1.1

正在 Ping 192.168.1.1 具有 32 字节的数据:
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64

192.168.1.1 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),
    往返行程的估计时间(以毫秒为单位):
        最短 = 1ms, 最长 = 1ms, 平均 = 1ms

C:\Users\86189>

```

Figure 2. Ping command

Enter the default IP address of the AP 192.168.1.1 in the browser, and the browser will navigate to login page. The username and password are both admin.

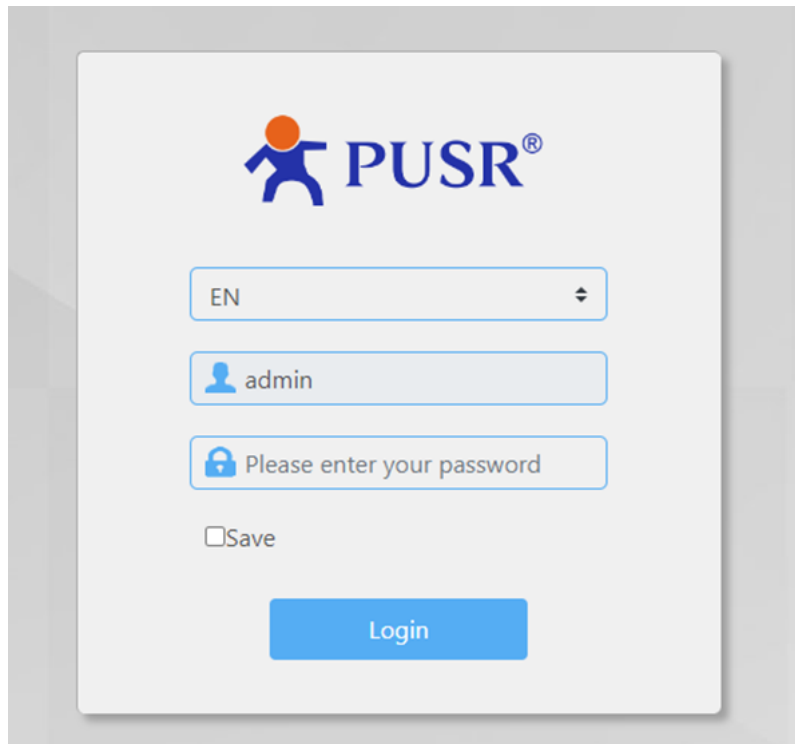


Figure 3. Login page

2.2. Briefs introduce of the webpage

The left column is divided into 9 menu pages: System status, mobile network, Internet accessing settings, WLAN settings, LAN settings, Login settings, client list, upgrade and system log.

There are three auxiliary options in the upper right corner: PUSR cloud, Luci, language, as shown in the following figure.

The screenshot shows the AC1000 web interface. At the top right, there is a navigation bar with 'USR Cloud', 'Luci', 'EN', and 'Logout'. On the left, a sidebar menu is visible with the following items: System Status, AC Control, Cloud AC, Network Settings, LAN Settings, Login Settings, Client List, Upgrade, and System Log. The main content area is titled 'System Information' and contains the following data:

System Information	
Host Name : [REDACTED]	Version : V2.09-20-g2f662ea
Local Time : Mon Jan 29 14:54:39 CTS 2024	Uptime : 0 day 4:36:24
MAC : d4:ad:20:6a:11:57	SN : 30800624012400003667
WAN Information	
System Mode : ROUTER	Internet Status : Not Connected
IP : -	Wan Port : Not Connected
Netmask : -	Gateway : -
Upload Byte : 0KB	Download Byte : 0KB
LAN Information	
IP : 192.168.10.1	DHCP Service : On
Subnet Mask : 255.255.255.0	
AP Info	
Sum : 0	Online : 0
Offline : 0	
Cloud AP Info	
Sum : 0	Online : 0
Offline : 0	

Figure 4. Function page

3. Configuration and parameter details

3.1. System status

This interface displays the basic information of the router, including 5 major blocks: system information, WAN port information, LAN port information, AP information and cloud AP information (Details will be introduced later). The specific information is shown in the figure below.

The screenshot shows the 'System Information' page for an AP. The top navigation bar includes 'USR Cloud', 'Luci', a language dropdown set to 'EN', and a 'Logout' button. The left sidebar contains the following menu items: System Status, AC Control, Cloud AC, Network Settings, LAN Settings, Login Settings, Client List, Upgrade, and System Log. The main content area displays the following information:

System Information	
Host Name : [REDACTED]	Version : V2.09-20-g2f662ea
Local Time : Tue Jan 30 11:48:12 CTS 2024	Uptime : 0 day 0:4:28
MAC : d4:ad:20:6a:11:57	SN : 30800624012400003667
WAN Information	
System Mode : AP	Internet Status : Connected
IP : 192.168.1.217	Wan Port : Not Connected
Netmask : 255.255.255.0	Gateway : 192.168.1.100
Upload Byte : 1.7 MiB	Download Byte : 209.1 KiB
LAN Information	
IP : 192.168.10.1	DHCP Service : Off
Subnet Mask : 255.255.255.0	
AP Info	
Sum : 0	Online : 0
Offline : 0	
Cloud AP Info	
Sum : 1	Online : 1
Offline : 0	

Figure 5. System information (AP)

3.2. AC management

This function is used to manage AP devices connected to the same LAN. The interface contains three sub-menu bars: AP List, AP Settings, and AP Details.

3.2.1. AP list

This interface is used to display the information of AP devices that connected within the LAN. The detailed information is shown in the following figure.

Num	Model	IP	SN	Uptime	0/1
1	NR310i	192.168.10.205	01601724010411370502	1 min	Offline

Figure 6. AP list

On this page, users can click on the IP of the connected AP device in the AP list to jump to the setting page, as shown in the figure.

Num	Model	IP	SN	Uptime	0/1
1	NR310i	192.168.10.205	01601724010411370502	1 min	Offline

Figure 7. AP list

3.2.2. AP settings

The settings for AP mainly include 7 actions: settings, restart, restore factory settings, upgrade, delete (offline AP), flash LED, export SN and cloud password, as shown in the figure.

Figure 8. AP settings

The detailed information of actions is listed in the following table.

Table 3.

Items	Description	How to operate
Settings	Set the SSID and password of the WiFi.	Check the target device→Enter SSID & password→Confirm
Reboot	Reboot the AP device	Check the target device→ Confirm
Reset to factory defaults	Reset the AP to factory defaults	Check the target device→ Confirm
Upgrade	Upgrade the firmware of AP	Check the target device→ select the firmware→Confirm
Delete (Offline AP)	Delete offline AP device	Check the target device→ Confirm
Changing LED status	Change device LED light status	Check the target device→click “Switch” → Confirm
Exporting SN and password	Export the SN and cloud password of connected devices (for cloud AC management import)	Check the target device→ Confirm(The context of the exported file is shown in the following picture)

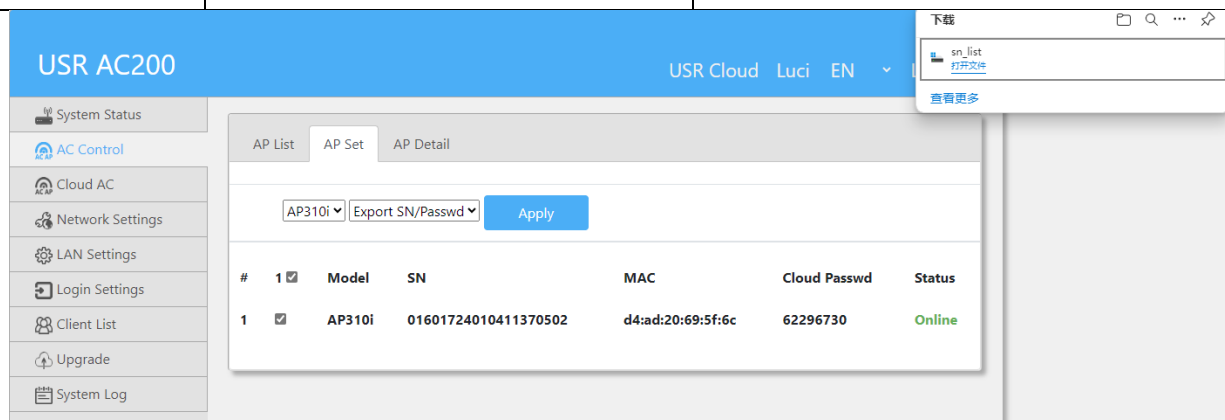


Figure 9. Export SN and passwd

3.2.3. AP information

On this page, users can view the detailed information of the AP device such as model, MAC, version number, etc. You can select the corresponding AP device by selecting the model and SN code. The specific information is shown in the following figure.

Select <input type="text" value="AP310i"/> <input type="text" value="[1] 01601724010411370502"/>		
Model: AP310i	SN: 01601724010411370502	MAC: d4:ad:20:69:5f:6c
WAN IP: 192.168.10.205	LAN IP: 192.168.1.1	DHCP Leases Num: 0
2G SSID: AP310i-5F6B-2.4G	2G Passwd: www.pusr.com	2G User Num: 0
5G SSID: AP310i-5F6B-5G	5G Passwd: www.pusr.com	5G User Num: 0
Cloud Passwd : 62296730	Web Passwd: admin	Internet: Connected
Mode: Route	LED : Normal	Status: Online
Cloud Version: V2.09-9	SW Version: V2.09-10-g89cae1d	
Uptime: 16:18:36 up 36 min, load average: 0.19, 0.11, 0.17		

Figure 10. AP detail

3.3. AC management via PUSR cloud

This function is used to manage AP devices connected to PUSR cloud(the AP devices need to be connected to the Internet). You need to import the SN code and cloud password of the corresponding device. It contains four sub-menu bars: AP list, AP settings, AP details, and AP import.

3.3.1. AP import

Import the SN code and cloud password of the AP device on this page to enable the AC to remotely manage the AP through the PUSR cloud. There are two ways to import: manual adding and file import, as shown in the figure below. The content format of the imported file is as shown in the chapter. After successful import, and the AP device has been successfully added on the cloud platform, it will be displayed in the AP list after refreshing the page.

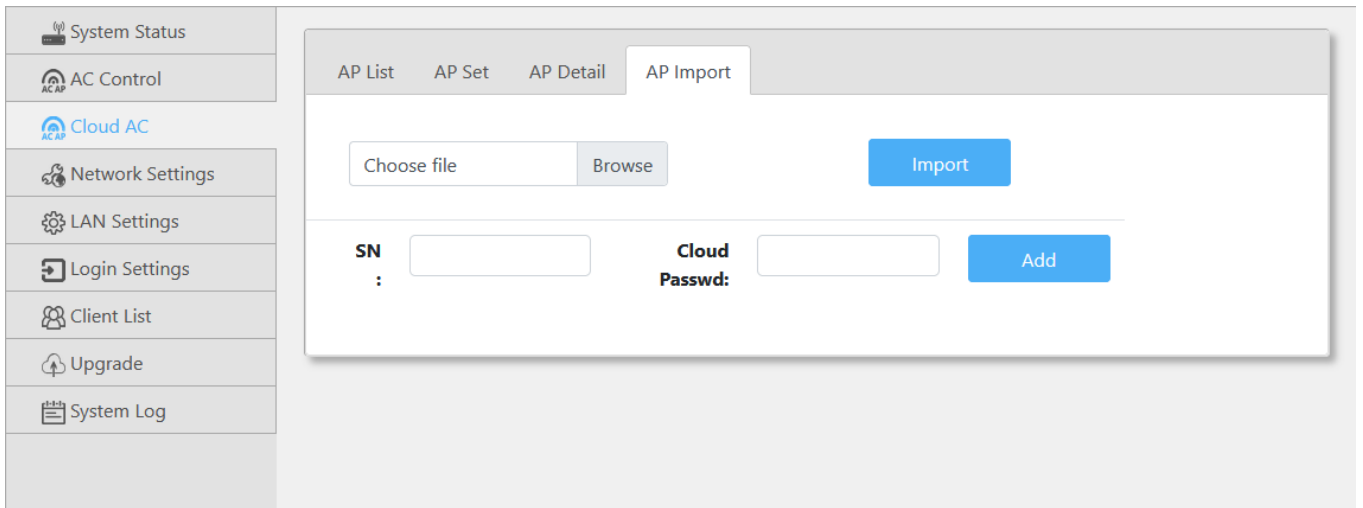


Figure 11. AP import

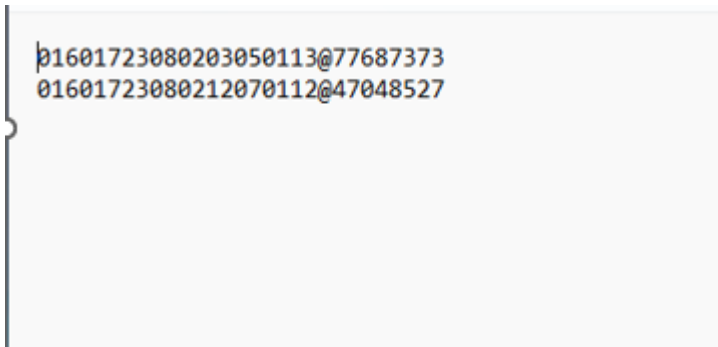


Figure 12. Context of imported file

3.3.2. AP list

This page displays the AP devices added on the cloud platform. The detailed information is as shown in the following figure.

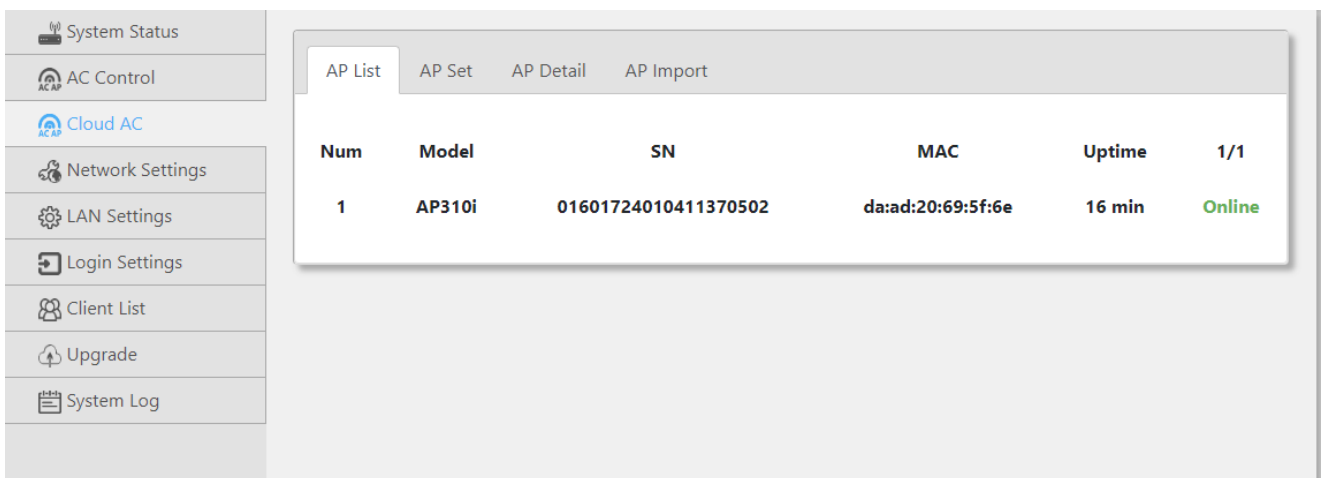


Figure 13. AP list

3.3.3. AP settings

The settings for AP mainly include 7 actions: settings, restart, restore factory settings, upgrade, delete (offline AP), flash LED, export SN and cloud password, as shown in the figure.

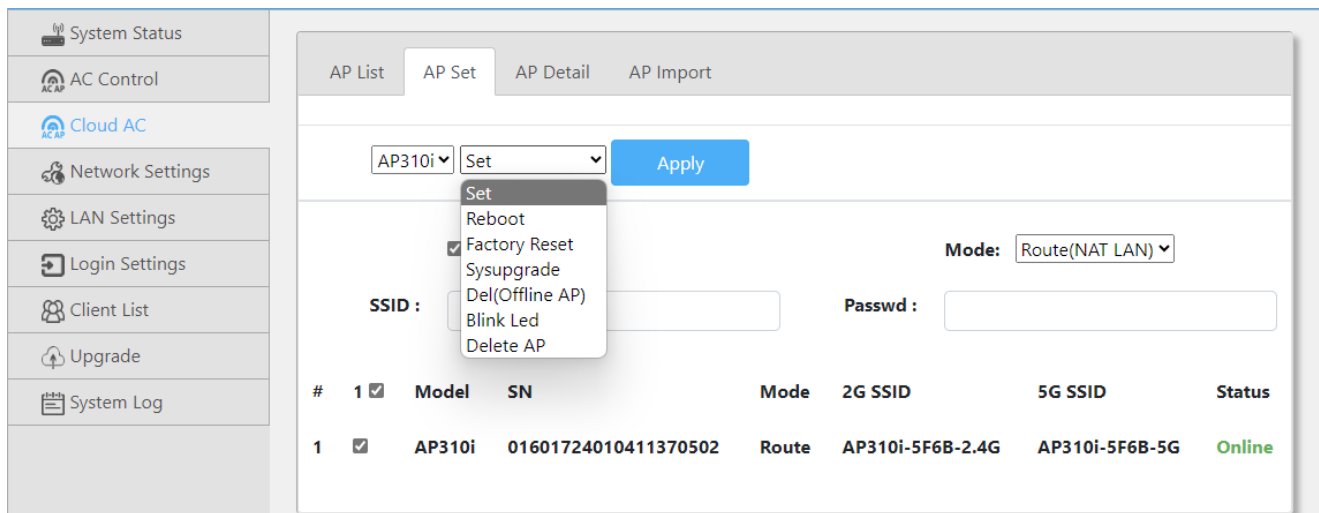


Figure 14. AP settings

The detailed information of actions is listed in the following table.

Table 4.

Items	Description	How to operate
Settings	Set the SSID and password of the WiFi.	Check the target device→Enter SSID & password→Confirm
Reboot	Reboot the AP device	Check the target device→ Confirm
Reset to factory defaults	Reset the AP to factory defaults	Check the target device→ Confirm
Upgrade	Upgrade the firmware of AP	Check the target device→ select the firmware→Confirm
Delete(Offline AP)	Delete offline AP device	Check the target device→ Confirm
Changing LED status	Change device LED light status	Check the target device→click "Switch" → Confirm

3.3.4. AP information

On this page, users can view the detailed information of the AP device such as model, MAC, version, etc. You can select the corresponding AP device by selecting the model and SN. The specific information is shown in the

following figure.

Figure 15. AP detail

3.4. Internet accessing settings

There are 4 parts included in this function block: Mode Selecting, Network Port Settings, WAN Settings, IP Mapping.

3.4.1. Mode selecting

There are 2 modes that can be selected: Router mode and AP mode.

Router mode: In this mode, the WAN port supports DHCP client, static IP, PPPoE. For LAN port, it support DHCP service to assign IP addresses to terminal network devices.

AP mode: In this mode, WAN and LAN are bridged together, and DHCP service is turned off.

Figure 16. Mode selecting

3.4.2. Ethernet port setting

In this function block, users can implement WAN/LAN switching, and can monitor whether the Ethernet port is connected to a device.

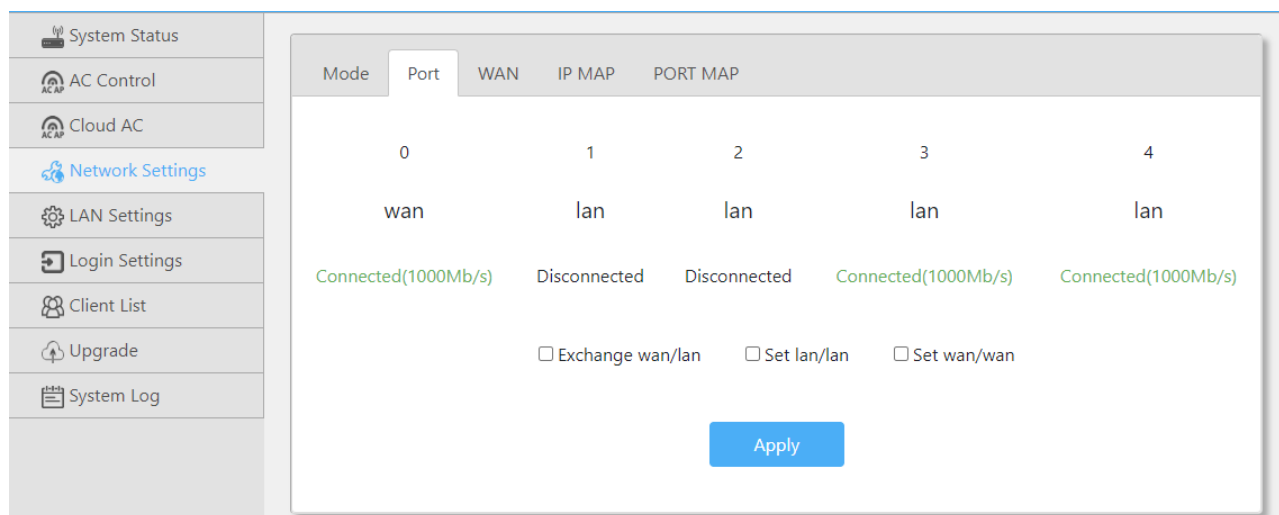


Figure 17. Ethernet port setting

3.4.3. WAN settings

On this page, users can set parameters of WAN port to get access to Internet, including DHCP client, static IP, and PPPoE.

MAC clone: Replace the AC's MAC address with this MAC.

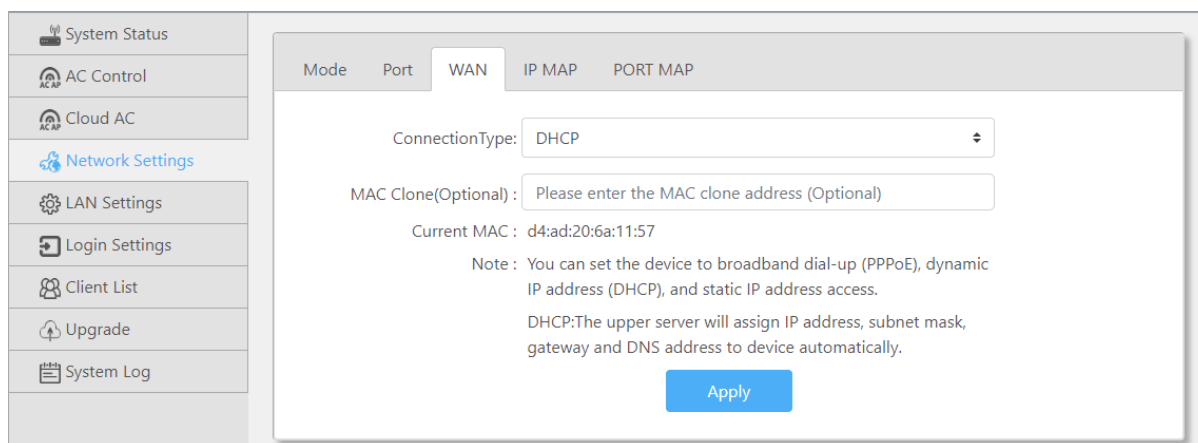


Figure 18. WAN settings

3.4.4. IP mapping

Connect the device to the LAN port, and the IP of the device is mapped to the WAN port. Users can directly access the device using the mapped IP on the WAN port. After specifying the communication host IP, the device

can connect to the WAN host through the internal IP.

The screenshot shows the 'IP MAP' configuration page. The 'Enable' checkbox is checked. The 'Device IP' field contains '192.168.1.1'. The 'Map IP' field contains '192.168.20.1'. The 'Wan Host IP(option)' field is empty. The 'Internal IP' field is a greyed-out text box. A note below the fields states: 'Note : Connect the device to the LAN port, and the device's IP is mapped to the WAN. Using the mapped IP on the WAN can directly access the device. After specifying the communication host IP, the device can connect to the WAN host through the internal IP.' An 'Apply' button is located at the bottom right of the configuration area.

Figure 19. IP mapping

Specific steps:

- 1> Connect the device to the LAN port of AC200/1000,
- 2> Parameters of the IP mapping is listed in the following table,

Table 5.

Items	Description
Device IP	The IP of the device connected to the LAN port.
Mapping IP	WAN IP of AC200/1000
Host IP	The IP of the device connected to the WAN port.
Internal IP	Should be in the same segment of the device IP.

- 3> Set the IP of PC to the same network segment as the mapped WAN port IP and connect to the WAN port of AC200/1000. Hardware connection is like the following:

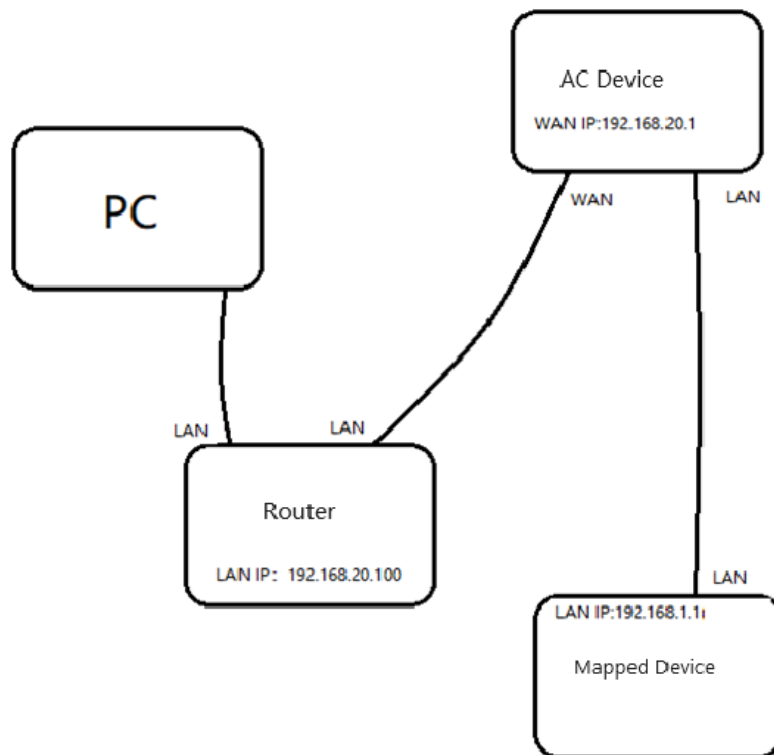


Figure 20. Topology

- 4> To check whether the mapped IP can be pinged (if the access device is a router, you can try to use the WAN port mapped IP to access the WEB server).

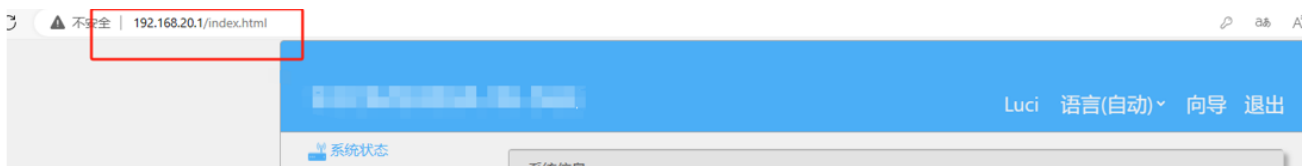


Figure 21. Accessing webpage via mapped IP

3.4.5. Port mapping

Like the IP mapping function, IP mapping occupies all ports. The difference here is that this configuration is for specific port or port range mapping functions. Therefore, to enable port mapping, it is necessary to first disable IP mapping. The port can be a number or a range, such as 23, 1-80, etc. Adding or deleting takes effect immediately. It is possible to access the corresponding LAN devices through the WAN IP and port. The WAN IP, which is also the access IP, can be set as a static IP or automatically obtained from the upper-layer router.

System Status
AC Control
Cloud AC
Network Settings
LAN Settings
Login Settings
Client List
Upgrade
System Log

Mode Port WAN IP MAP PORT MAP

ConnectionType: Static IP

IP Address: 192.168.30.2

Subnet Mask: 255.255.255.0

Gateway: 192.168.30.254

Preferred DNS: 192.168.30.253

Alternate DNS: Please enter an alternate DNS

MAC Clone(Optional): Please enter the MAC clone address (Optional)

Current MAC: d4:ad:20:6a:11:57

Note: You can set the device to broadband dial-up (PPPoE), dynamic IP address (DHCP), and static IP address access.
Static IP: Please configure static IP address, subnet mask, gateway, DNS address.

Apply

Figure 22. WAN settings

System Status
AC Control
Cloud AC
Network Settings
LAN Settings
Login Settings
Client List
Upgrade
System Log

Mode Port WAN IP MAP PORT MAP

#	Status	Dev IP	PC IP	Port	Del
1	On	192.168.10.2	192.168.30.10	22	Del
2	On	192.168.10.3	192.168.30.10	23	Del

Enable: mapped IP mapped port

Device IP: 192.168.10.3

WAN PC IP: 192.168.30.10

Port(1-65535): 23

Note: Device IP as in LAN network. PC IP as in WAN network. If the WAN does not obtain an IP address, configure static IP address for it please. The port is a number or a range, for example, 23 or 1-80. The addition or deletion takes effect immediately, and the LAN device can be accessed through the IP address and port on the WAN.

Add

Figure 23. IP/Port mapping

Specific steps:

- 1> Connect the device to the LAN port of AC200/1000,

2> Parameters of the port mapping is listed in the following table,

Table 6.

Items	Description
Device IP	The IP of the device connected to the LAN port.
PC IP	The IP of PC connected to the WAN port of AC200/1000.
Port	A single port or a range of ports.

3> Set the PC's IP to 192.168.30.10, which is in the same subnet as the AC200 WAN port, and connect the PC to the AC200's WAN port.

4> Map port 22 or 23 to check if it's possible to use SSH or telnet to log into the device by accessing the IP.

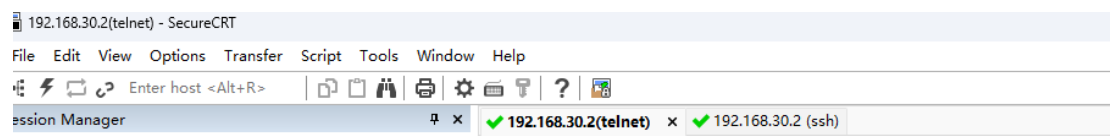


Figure 24. Telnet & SSH

3.5. LAN network settings

This function block is used to set the LAN IP address of the 520X, with the setting options as shown in the following diagram, and the configuration instructions as in Table 3.

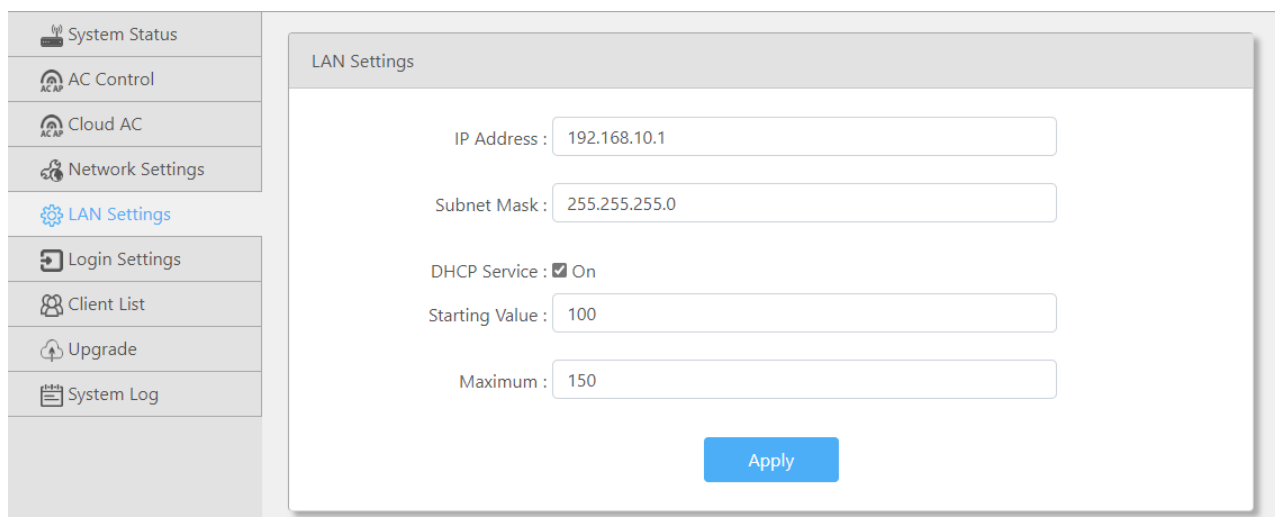


Figure 25. LAN network settings

Table 7. Parameters details of LAN network settings

Items	Description
IP address	The LAN IP of the AP(NR)520X. The default is 192.168.10.1
Subnet Mask	Subnet Mask of AP(NR)520X LAN port.

DHCP service	After enabling DHCP, the AC200/1000 can assign IP addresses to terminal devices. The IP addresses start from the “initial value” and can be allocated up to the “maximum number” set.
--------------	---

3.6. Login settings

This function is used to change the login password of a webpage.

The screenshot shows the 'Login Settings' page. On the left is a navigation menu with options: System Status, AC Control, Cloud AC, Network Settings, LAN Settings, Login Settings (highlighted), Client List, Upgrade, and System Log. The main content area has the following fields:

- User Name:
- Old Password:
- New Password:
- Cloud Password:

Below the fields is a note: "Note : Change password in this page. Password can not be empty, and the maximum password length is 15." At the bottom is a blue "Apply" button.

Figure 26. Login password settings

3.7. Client list

Client list has 3 submenus: DHCP List wireless clients and IP Binding.

DHCP List: Clicking on “refresh” button will display the information of computers that have obtained IP addresses through the router's DHCP service, as shown in the following figure.

The screenshot shows the 'DHCP Clients' page. On the left is the same navigation menu as in Figure 26. The main content area has two tabs: 'DHCP Clients' (selected) and 'DHCP Static'. Below the tabs is a table:

#	Name	Connection	IP	MAC
1	*	eth	192.168.10.205	d4:ad:20:69:5f:6c

At the bottom of the table is a blue "Refresh" button.

Figure 27. DHCP list

IP Binding: Enter the IP address and MAC address of the device that needs to be bound, then click on <Add>. Click on <Refresh> to view the devices that have already been bound.

Figure 28. IP binding

3.8. Software upgrading

This functional block includes 5 submenus: [Firmware Upgrade], [Backup/Restore Configuration], [Date/Time], [Restart], and [Restore Factory Settings].

3.8.1. Firmware upgrading

Select firmware file-> Click upgrade

Figure 29. Firmware upgrading

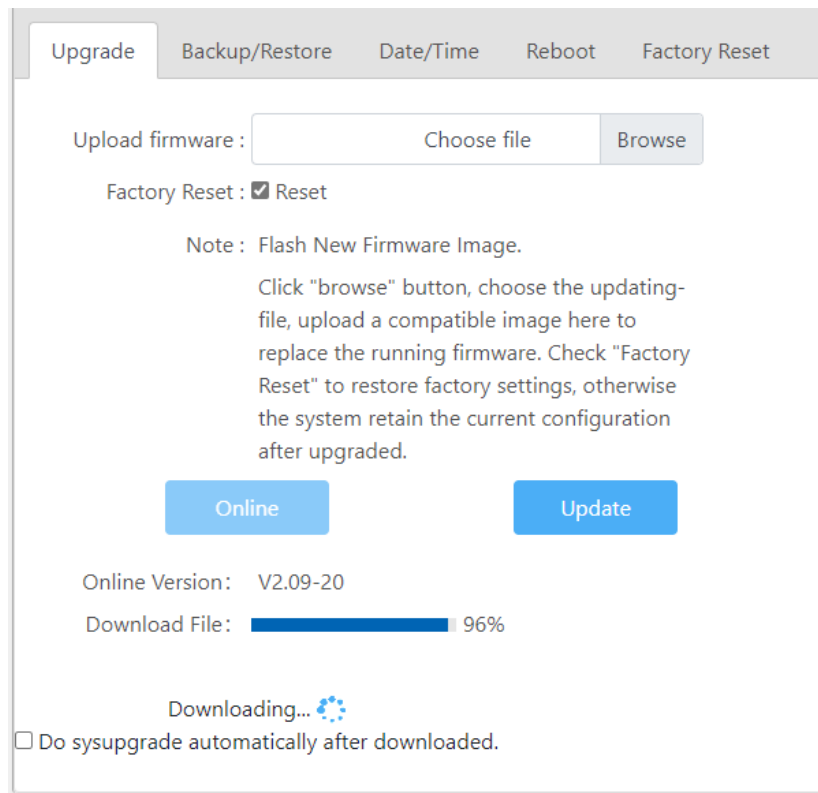


Figure 30. Firmware upgrading online

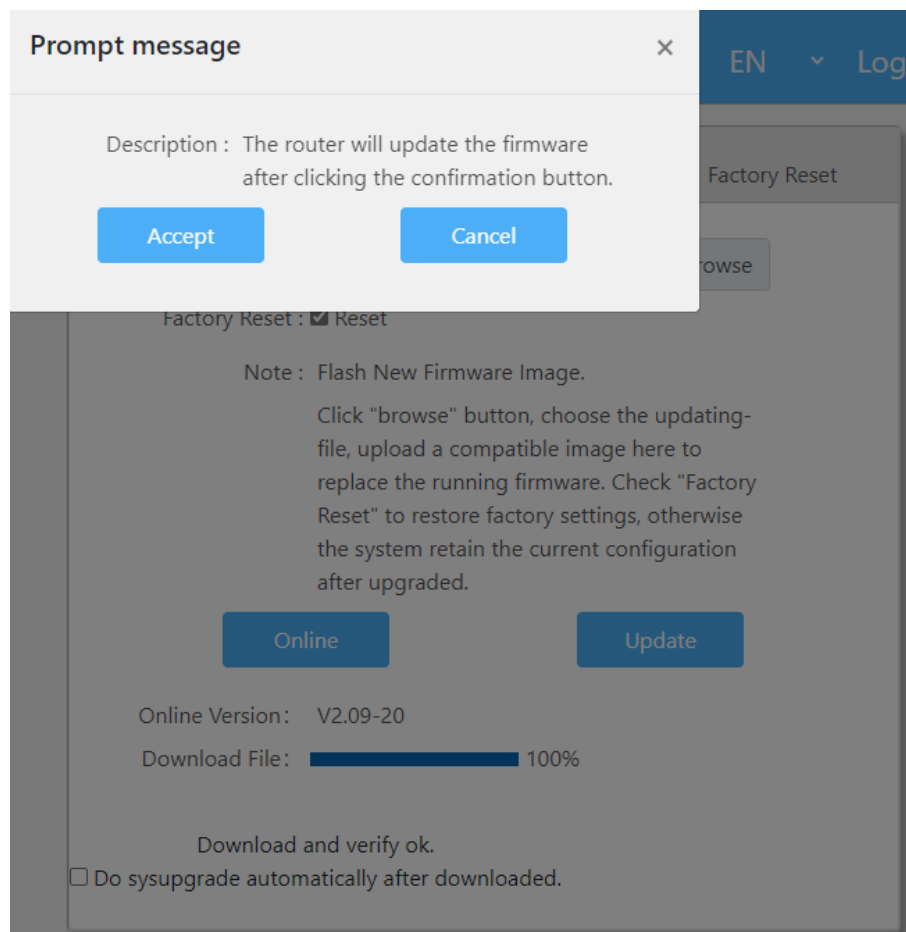


Figure 31. Firmware upgrading online

3.8.2. Backup

This function is used to back up the current parameters of AP device, and it also allows the import of previously saved parameters, making it convenient for users to configure settings.

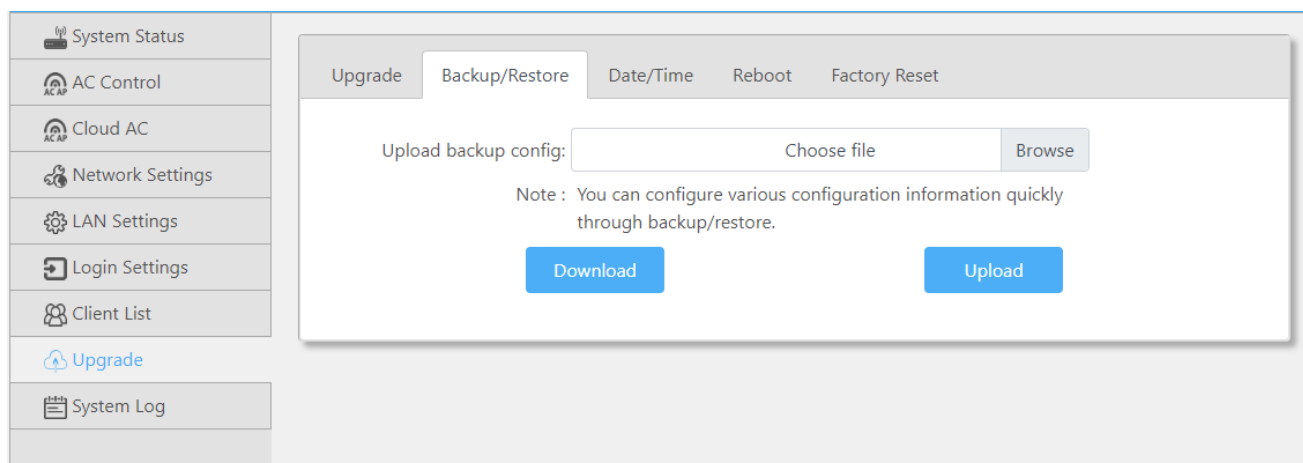


Figure 32. Configuration backup

Table 8.

Items	Description
Backup parameters	Click the <Backup Configuration> button to save the current settings to a file.
Import backup file	Click <Browse> to select the configuration file. Click <Import Configuration>, and in the prompt box, click <OK> to upload the settings to AC200/1000 and restart.

3.8.3. Time & Date

Set the time and date of the AC200/1000.

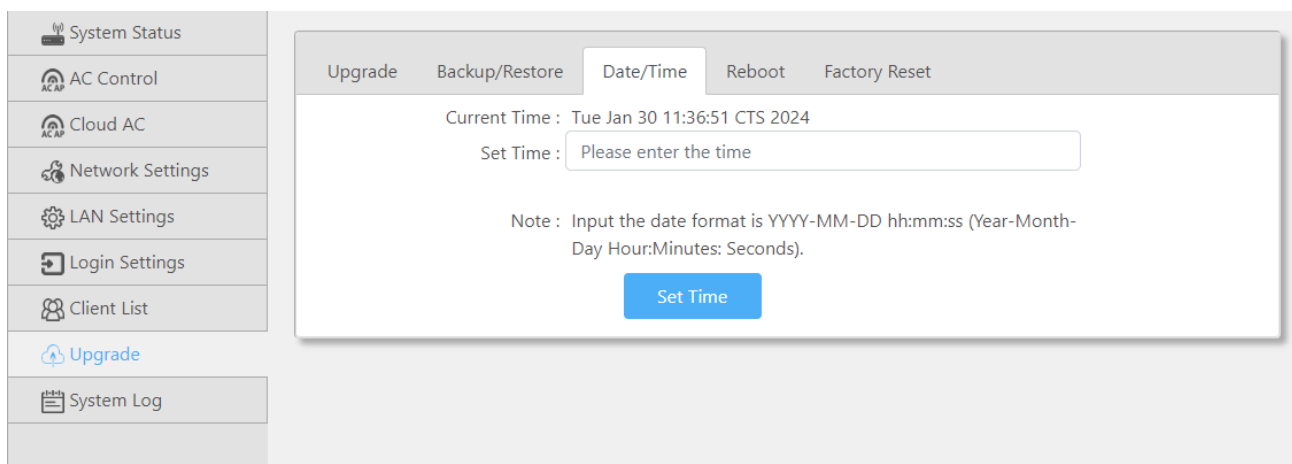


Figure 33. Time & Date

3.8.4. Reboot

Reboot the AP device.

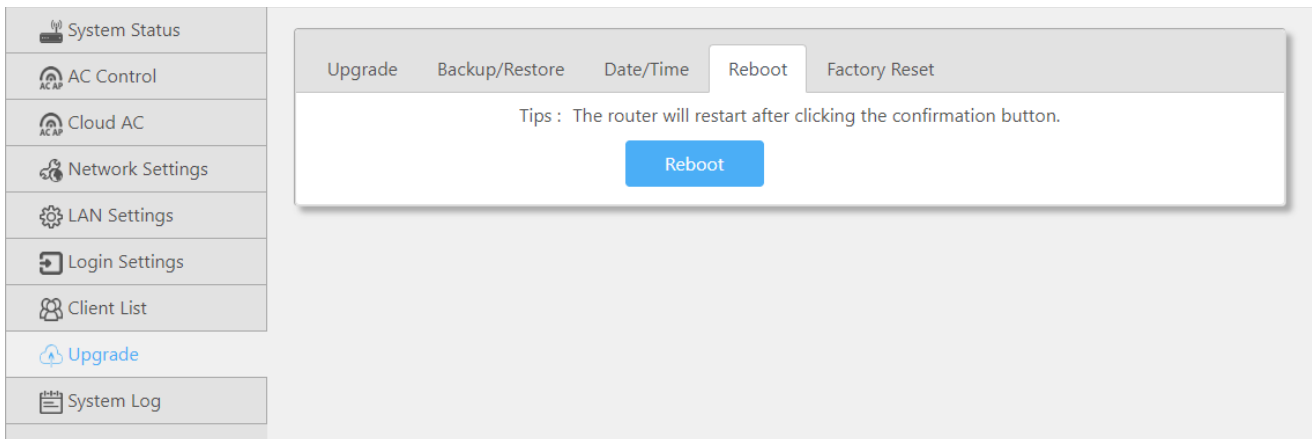


Figure 34. Reboot

3.8.5. Reset to factory setting

Reset to factory settings.

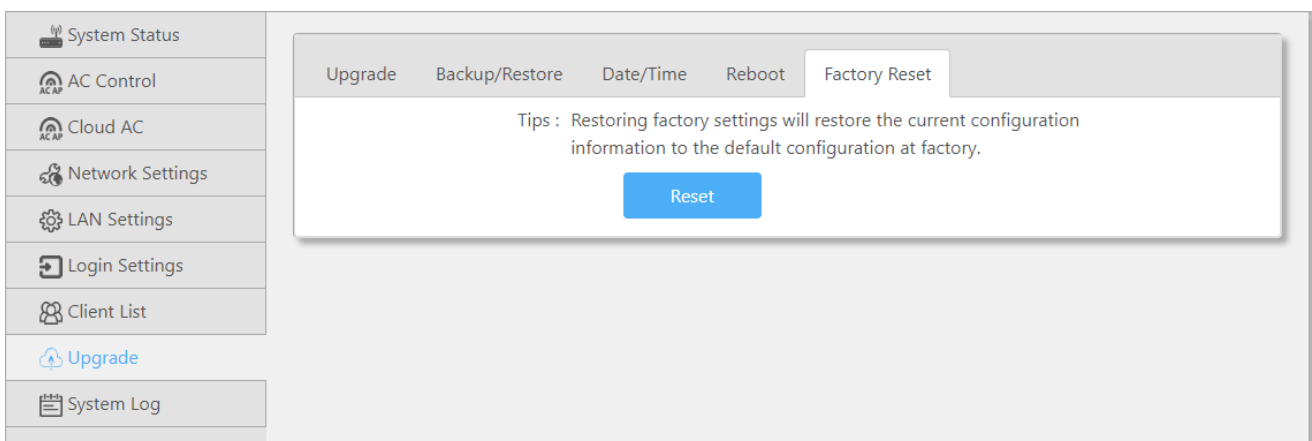


Figure 35. Reset to factory settings

3.9. System log

To check the system log.

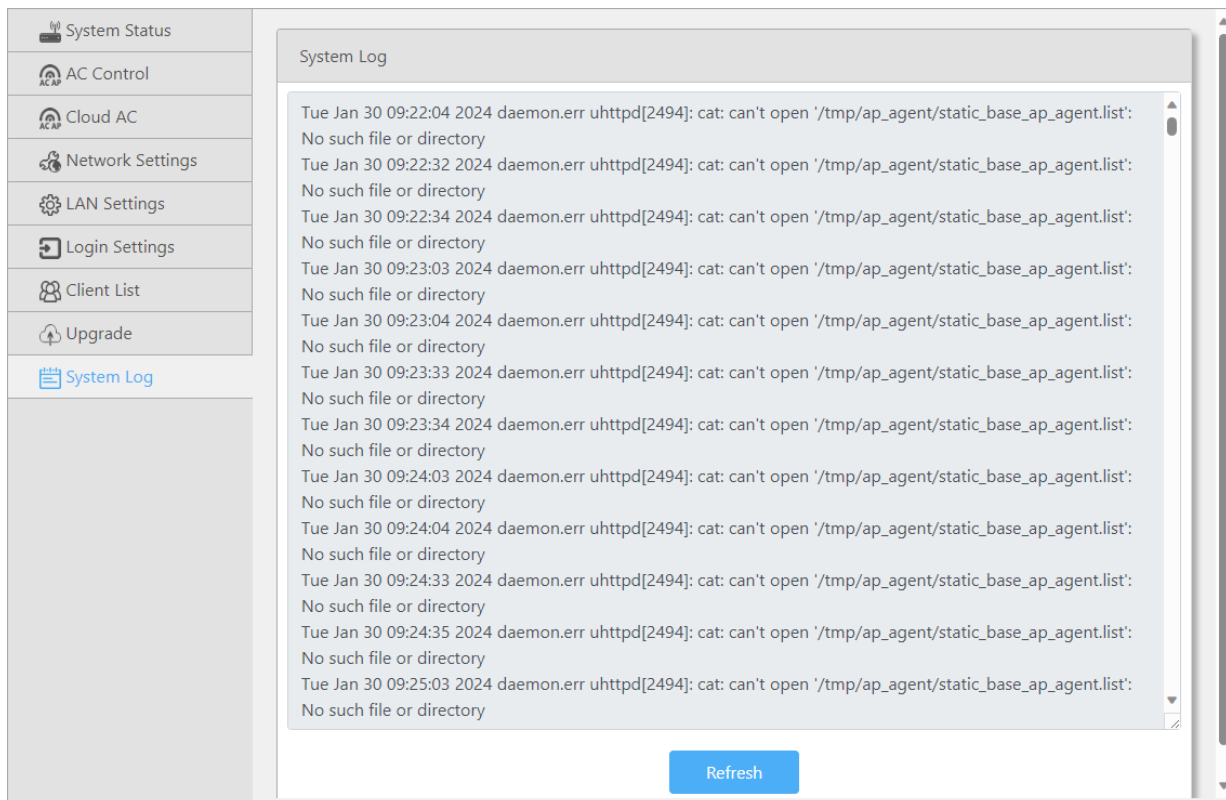


Figure 36. System log

4. Warranty

5. Contact Us

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7. Revision History

Version	Date	Author	Description
V1.0.0	2023-11-17		Established
V1.0.1	2024-01-29	May Liu	Translation



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