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User Manual

AC3000 Multi-service Controller

Web UI for Fat AP Management

IP-COM
World Wide Wireless

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Preface

Thank you for purchasing IP-COM Multi-service Controller AC3000! Reading this user manual will be helpful for you to configure, manage and maintain the product.

Intended Users

This user manual is written mainly for the following users:

Network Planning Engineer

Technical Engineer

Network Administrator



Conventions

If not specifically indicated, "AC", "AC3000", "access controller", "this device", or "this product" mentioned in this user manual stands for the IP-COM Multi-service Controller AC3000 V1.0.

Typographical conventions in this user manual:

Item	Presentation	Example
Button	Bold	"Click the Save button" will be simplified as "click Save ".
Menu	Bold	The menu "System Tool" will be simplified as System Tool .
Continuous Menus	>	Go to System Tool > Diagnosis Tool .

Symbols in this user manual:

Item	Meaning
 Note	This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configurations, loss of data or damage to device.
 Tip	This format is used to highlight a procedure that will save time or resources.

For more documents

For more documents, please go to our website <http://www.ip-com.com.cn> and search for the appropriate product model to get the latest documents.

Technical Support

If you need more help, please contact us with any of the following ways. We will be glad to assist you as soon as possible.



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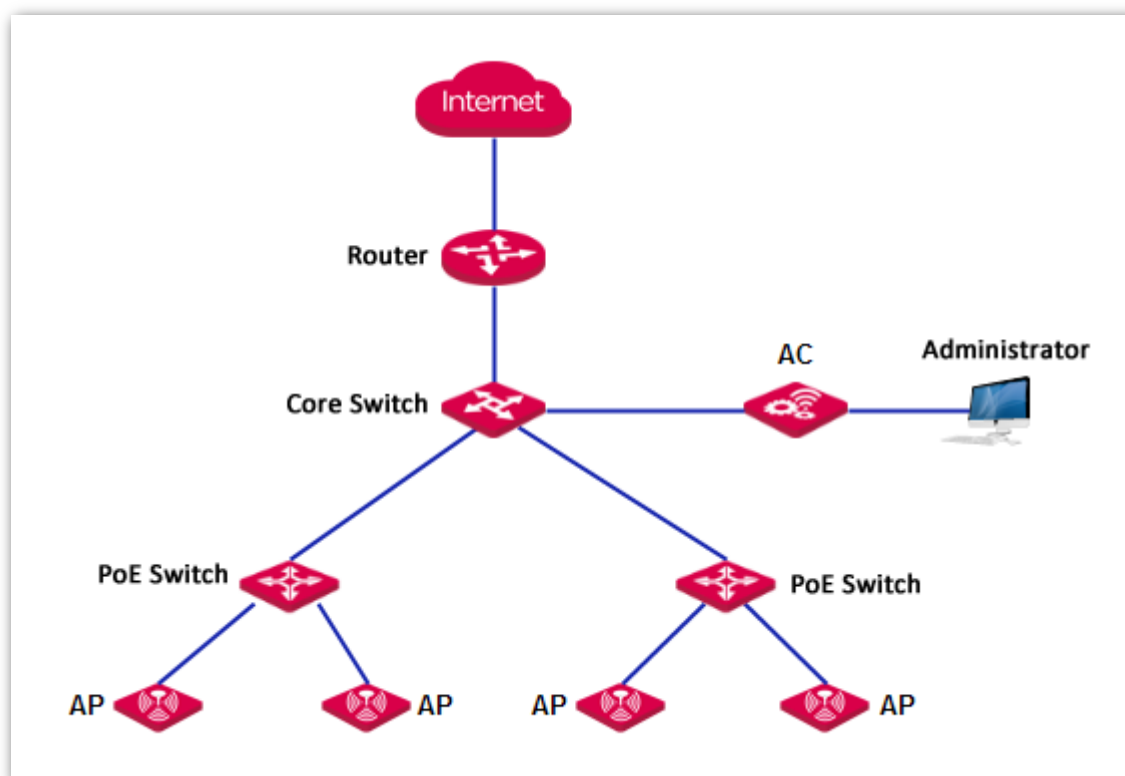
01 Web UI for Fat AP Management

This part contains the following topics:

- Network topology of fat AP management.
- Web login for fat AP management.
- Web layout for fat AP management.
- Web elements for fat AP management.

1 Network Topology

AC3000 can manage both fit APs and fat APs. When it manages fat APs, the Network Topology is shown as below.



2 Web Login

Log in to the AC's Web UI for fit AP management, then go to **System Tool > Old Firmware AP** and click **Login to Web UI**. For details, refer to the user manual of *AC3000 Multi-service Controller Web UI for Fit AP Management*.

- Monitoring
- Network Setting
- Policy Management
- AP Management
- Map & Diagram
- Captive Portal
- Alarm Setting
- System Tool
- Date & Time
- Diagnosis Tool
- System Log
- Maintenance
- Administrator
- License
- Reboot

Old Firmware AP

Manage AP With Old Firmware Login to Web UI

Web UI for Fat AP Management

Then you will come to the second Web UI for fat AP management.

IP-COM World Wide Wireless ☰

Discover AP Discover AP Discover SSID Export Delete MAC, Remark, IP

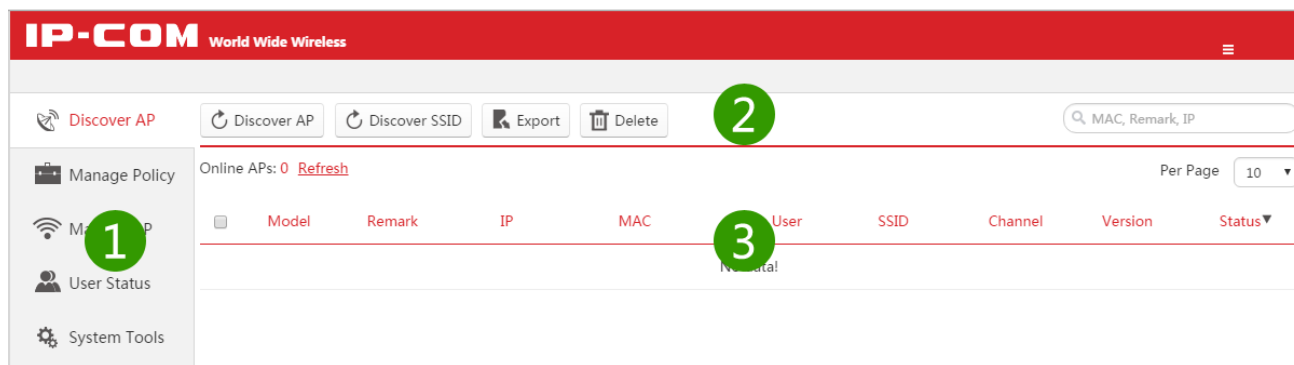
Manage Policy Manage AP User Status System Tools

Online APs: 1 [Refresh](#) Per Page 10

	Model	Remark	IP	MAC	Online User	SSID	Channel	Version	Status
<input type="checkbox"/>	ap255v1.0	AP255V1.0	192.168.10.176	00:b0:c6:00:1f:70	0	IP-COM_28484F	Auto	V1.0.0.7(2854)	Online

Web UI for Fat AP Management

3 Layout of Web UI



This Web UI is divided into three parts: primary navigation bar, secondary navigation bar and configuration area, shown as follows.


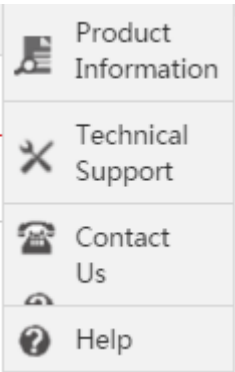



Number	Name	Description
1	Primary navigation bar	The navigation bar organizes the AC's menu of all functions in the form of a navigation tree. You can choose the function menu from the navigation bar with selection result shown in the configuration area.
2	Secondary navigation bar	
3	Configuration area	The area is used to configure and view settings.

4 Elements of Web UI

The following table shows the commonly used buttons of the Web UI.

Button	Description
+Add	Click the button to create a policy or a rule.
Save	Click the button to apply your settings.
Cancel	Click the button to cancel or clear the settings you are editing.
Export	Click the button to export the current page's information to an appropriate directory. The exported file is in the format <i>Filename.csv</i> .
Delete	Click the button to delete an unused policy or an offline AP's information.

The following table shows the commonly used actions of the Web UI.

Action	Description
 (Top right corner of the homepage)	 Click it to unfold
	Used to search for target information.
Per Page 	Used to specify how many entries are displayed on each page.
	Used to refresh the information on the page.
<input type="checkbox"/>	Check to select one item on each line or select all items on the page.

02 Discover AP

After you log in to this Web UI, click **Discover AP** on the left menu to enter the following page.

On this page, you can:

- See all online fat APs and their information.
- Discover fat APs.
- Discover enabled SSIDs of fat APs.
- Export the information on the page to an appropriate directory.
- Delete offline APs.
- Log in to fat AP's Web UI.

1 Discover AP


To get the latest information of fat APs, click button **Discover AP**.

The screenshot displays the IP-COM World Wide Wireless web interface. The top navigation bar is red with the IP-COM logo and the text "World Wide Wireless". Below the navigation bar, there is a sidebar on the left with icons and labels for "Discover AP", "Manage Policy", "Manage AP", "User Status", and "System Tools". The main content area has a header with buttons for "Discover AP", "Discover SSID", "Export", and "Delete", and a search bar containing "MAC, Remark, IP". Below the header, it shows "Online APs: 1" with a "Refresh" button and a "Per Page" dropdown set to "10". A table lists the AP details:

Model	Remark	IP	MAC	Online User	SSID	Channel	Version	Status
ap255v1.0	AP255V1.0	192.168.10.176	00:b0:c6:00:1f:70	0	IP-COM_28484F	Auto	V1.0.0.7(2854)	Online

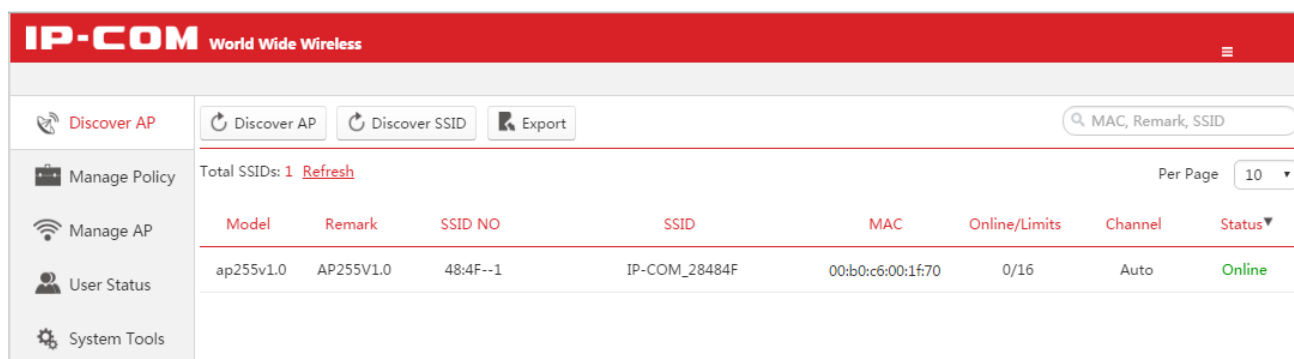
Parameter Description:

Item	Description
Model	Display an AP's model.
Remark	Display an AP's remark. By default, it is the AP's model. In order to manage different APs easily, it is recommended to set up Remark as the AP's location. When an AP is online, you can click the AP's remark to modify it.

IP	<p>Display an AP's IP address. Once a fat AP connects to the AC, it will obtain an IP address from the AC and will not use the former IP address any more.</p> <p>When a fat AP is online, you can click the IP address to log in to the AP's Web UI.</p>
MAC	Display a fat AP's MAC address, and you can find it on the AP's label.
Online User	Display the amount of users that are connected to an AP currently.
SSID	Display an AP's primary SSID.
Channel	Display an AP's working channel.
Version	Display an AP's firmware version.
Status	<p>Display whether the AP is online or offline.</p> <ul style="list-style-type: none"> Online: The AP and AC have successfully established a connection, and the AC can manage the AP. Offline: The AP and AC failed to establish a connection and the AC can't manage the AP. <p> Tip</p> <p>If the AP is offline, it keeps configuration delivered before. Users can still use their wireless network unless the AP is restored to factory default.</p>

2 Discover SSID

To get the latest information of enabled SSIDs, click button **Discover SSID**.



The screenshot shows the IP-COM management interface. At the top, there is a red header with the IP-COM logo and the text "World Wide Wireless". Below the header, there is a navigation menu with options: "Discover AP", "Manage Policy", "Manage AP", "User Status", and "System Tools". The "Discover AP" option is selected. In the main area, there are buttons for "Discover AP", "Discover SSID", and "Export". A search bar contains the text "MAC, Remark, SSID". Below the buttons, it says "Total SSIDs: 1 Refresh". To the right, there is a "Per Page" dropdown menu set to "10". A table displays the discovered SSID information:

Model	Remark	SSID NO	SSID	MAC	Online/Limits	Channel	Status
ap255v1.0	AP255V1.0	48:4F--1	IP-COM_28484F	00:b0:c6:00:1f:70	0/16	Auto	Online

Parameter Description:

Item	Description
Model	Display an AP's model.
Remark	Display an AP's remark. By default, it is the AP's model. In order to manage different APs easily, it is recommended to set up Remark as the AP's location. When an AP is online, you can click the AP's remark to modify it.
SSID NO	Display the order of the SSID. The format is "xx:xx--a", "xx:xx" stands for the last four characters of the AP's MAC address, and "a" is a digit number which represents the order of the SSID. For example, "xx:xx--6" means the sixth SSID of the AP, whose MAC address is "yy:yy:yy:yy:xx:xx".
SSID	Display an AP's SSID.
MAC	Display a fat AP's MAC address, and you can find it on the AP's label.
Online/Limits	"Online" represents the amount of instant online users which connect to the SSID, and "Limits" represents the max users which are allowed to connect to the SSID.
Channel	Display an AP's working channel.
Status	It is always displayed "Online".

3 Export

To download this page's information to an appropriate directory, click **Export** on the page and then follow onscreen instructions. The exported file is in the format *Filename.xls*.

If a warning message appears when you open the exported file, click **Yes**.

4 Delete

To delete offline APs:

1. Select the APs you want to delete.
2. Click **Delete**.

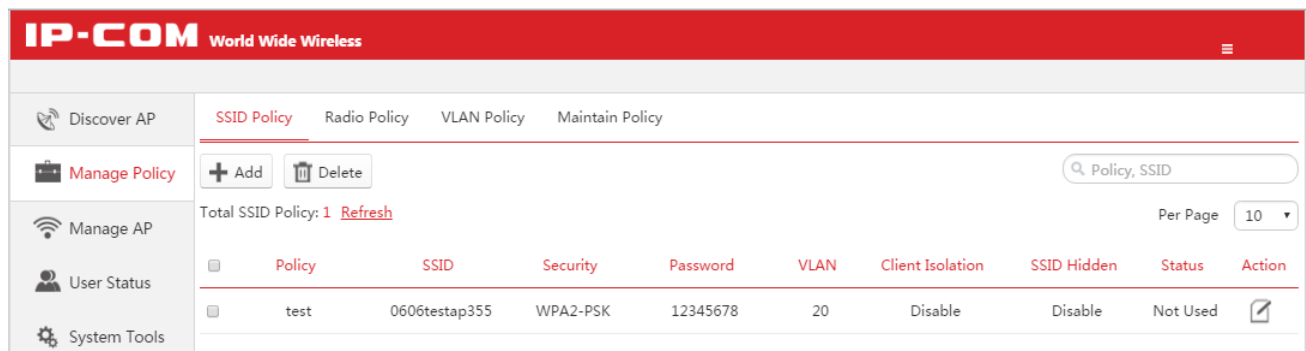
Tip: Online APs will not be deleted even you select them.

03 Manage Policy

To create SSID Policy, Radio Policy, VLAN Policy, and Maintain Policy for fat APs, follow this part.

After creating appropriate policies, you can deliver these policies to fat APs on **Manage AP** page. For details, refer to [Manage AP](#).

1 SSID Policy



Create a SSID Policy

1. On this Web UI, click **Manage Policy > SSID Policy**.
2. Click **Add** to create a policy.
3. Click **Save** to apply your settings.

SSID Policy

Policy

SSID

Security

Client Limit For SSID

Client Isolation Enable


SSID Hidden Enable

VLAN ID

Note : VLAN ID for SSID tagging only be activated after VLAN Policy enabled on the access Point

Parameter Description:

Item	Description
Policy	Enter a unique SSID policy name.
SSID	Enter a SSID name. The range of Length is 1~32 bytes.
Security	<p>The AC supports the following three types of Security Mode:</p> <ul style="list-style-type: none"> No encryption: If you select this option, all clients can connect to your WiFi. In order to ensure network security, it is not recommended to select this one. WPA-PSK: The security mode of the wireless network is WPA-PSK. WPA2-PSK: The security mode of the wireless network is WPA2-PSK.
Encryption	<p>(Available only when WPA-PSK or WPA2-PSK is selected.)</p> <p>The AC supports the following three types of encryption:</p> <ul style="list-style-type: none"> AES: AES is short for Advanced Encryption Standard. This encryption algorithm ensures a higher wireless rate. TKIP: TKIP is short for Timing Key Integrity Protocol. Wireless rate can only reach 54Mbps with this algorithm. TKIP&AES: Compatible with TKIP and AES. The wireless client can use either AES or TKIP algorithm to connect to the WiFi.

	(Available only when WPA-PSK or WPA2-PSK is selected.)
Security Key	Wireless clients need to enter this security key to connect to a corresponding AP. The range of length is 8~63 characters.
Key Interval	(Available only when WPA-PSK or WPA2-PSK is selected.) Configure the key update interval for encrypting WPA data. Theoretically, the shorter the key interval is, the more secure the WPA data will be. If set to "0", the key will not be updated.
Client Limit For SSID	Set the maximum number of wireless clients that are allowed to connect. If this value is greater than AP's the maximum supported number, the latter takes effect after the policy is delivered.
Client Isolation	<ul style="list-style-type: none"> • Enable: Wireless clients that connect to the SSID can't communicate with each other. • Disable: Wireless clients that connect to the SSID can communicate with each other.
SSID Hidden	<ul style="list-style-type: none"> • Enable: If you enable "SSID Hidden" function, the SSID name will not be broadcasted so that the SSID names cannot be found in the clients' available network list. Wireless clients need to manually enter the SSID name to connect to the SSID. • Disable: The SSID name will be broadcasted and will be discovered by adjacent devices.
VLAN ID	<p>Set up VLAN ID of the SSID and all packets from connected clients will be tagged with this VLAN ID. The range is 1~4094.</p> <p> Note</p> <p>VLAN ID is not effective unless VLAN Policy is delivered.</p>

Modify a SSID Policy

1. On this Web UI, click **Manage Policy > SSID Policy**.

2. Click  to modify a policy's parameter.

The parameter *Policy* can't be modified.

3. Click **Save** to apply your settings.

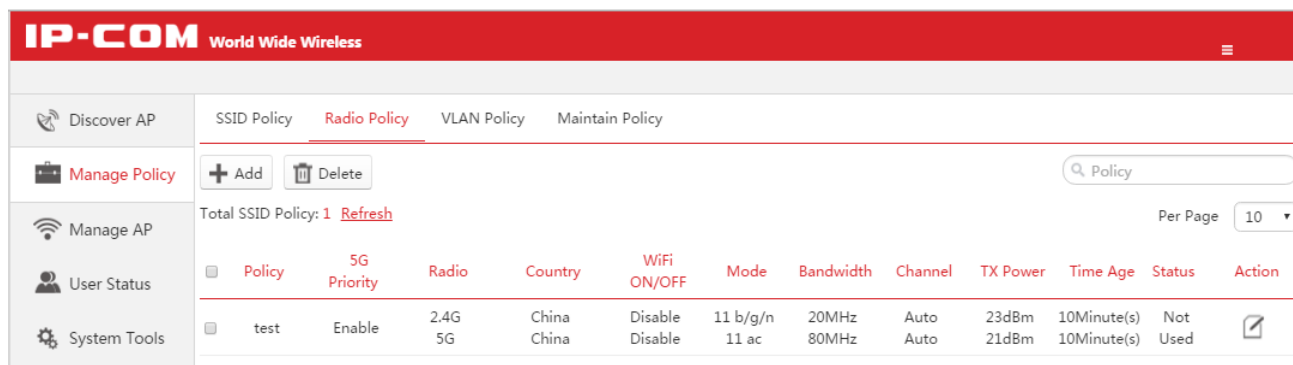
After you modify a policy, go to **Manage AP > AP Group Modify** and re-deliver the policy to take effect.


Delete a SSID Policy

1. On this Web UI, click **Manage Policy > SSID Policy**.
2. Select the policies that will not be used any more.
3. Click **Delete**.

It is not recommended to delete the policies that are delivered to an AP.

2 Radio Policy



Policy	5G Priority	Radio	Country	WiFi ON/OFF	Mode	Bandwidth	Channel	TX Power	Time Age	Status	Action
test	Enable	2.4G 5G	China China	Disable Disable	11 b/g/n 11 ac	20MHz 80MHz	Auto Auto	23dBm 21dBm	10Minute(s) 10Minute(s)	Not Used	

Create a Radio Policy

1. On this Web UI, click **Manage Policy > Radio Policy**.
2. Click **Add** to create a policy.
3. Click **Save** to apply your settings.

Parameter Description:

Item	Description
Policy	Enter a unique radio policy name.
2.4G/5G	Click 2.4G or 5G to set up corresponding parameters.
WiFi	Enable or disable WiFi radio function.
Airtime Scheduling	It is recommended to enable this function. Dynamic airtime scheduling gives equal airtime rather than frame transmission opportunity to clients, thereby allowing high-speed clients to achieve much higher throughput without significantly impacting the slow-speed clients.
Country	Different countries have different allowable channels. Most countries allow the first eleven channels in the spectrum.
Network Mode	Select a Network Mode. 2.4G band includes 11b, 11g, 11b/g and 11b/g/n, while 5G band includes 11a, 11ac and 11a/n. Descriptions are as follows. <ul style="list-style-type: none"> 11b: Works in 2.4G band and supports up to 11 Mbps. 11g: Works in 2.4G band and supports up to 54 Mbps. 11b/g: If you select this option, wireless clients supporting 802.11b or 802.11g can connect to the WiFi.

	<ul style="list-style-type: none"> • 11b/g/n: If you select this option, wireless clients supporting 802.11b, 802.11g or 802.11n can connect to the WiFi. • 11a: Works in 5G band and supports up to 54 Mbps. • 11ac: Works in 5G band and supports up to 1300Mbps. It is a newer standard that uses wider channels, QAM and spatial streams for higher throughput • 11a/n: Works in 5G band and supports up to 300Mbps, compatible with 11n.
Bandwidth	<p>Select the wireless bandwidth.</p> <ul style="list-style-type: none"> • 20: 20MHz channel bandwidth. • 40: The APs using this RF policy are preferred to use 40MHz channel bandwidth. However, if the interference is so big, it will use 20MHz channel bandwidth automatically. • 80: Automatically adjust the channel bandwidth to 20MHz, 40MHz or 80MHz based on surrounding environment. • Auto: Automatically adjust the channel bandwidth to 20MHz or 40MHz based on surrounding environment.
Channel	Select the wireless channel. Channel range differs from country and radio band.
Extension Channel	When bandwidth is 40 or Auto, this is used to determine the channel range of AP.
TX Power	AP wireless transmitting power. If this value is greater than the maximum supported power of an AP, the latter takes effect after the policy is delivered.
RSSI Threshold	<p>RSSI is short for Received Signal Strength Indication.</p> <p>If a wireless client's signal is lower than this value, the client cannot connect to the AP, which helps the client to connect to an AP with stronger signal.</p>
WMM	Wi-Fi Multimedia (WMM) provides basic Quality of Service (QoS) features to IEEE 802.11 networks. WMM prioritizes traffic according to four Access Categories (AC) - voice, video, best effort, and background. It does not provide guaranteed throughput and is suitable for Voice over IP (VoIP) on Wi-Fi phones (VoWLAN).
SSID Isolation	<p>Enable/Disable SSID isolation.</p> <p>When enabled, wireless clients that connect to different SSID of the AP cannot communicate with each other.</p>

APSD	APSD is short for Automatic Power Save Delivery. It is basically a feature mode that allows your mobile devices to save more battery while connect to your WiFi network. By allowing your mobile devices to enter standby or sleep mode, it conserves energy. It is only effective when you enable WMM.
Time Age For Client	<p>After a client connects to the AP:</p> <p>If there is no data transmission within the time period, AP will actively disconnect the client.</p> <p>If data transmission is detected within the time period, AP will recalculate the time age.</p>
5G Priority	"5G priority" refers to a scenario when a dual band client connects to a dual band AP, the AP makes it connect to 5G band in higher priority, which helps the AP to reduce interference and workload in 2.4G band and hence improve user experience.

Modify a Radio Policy

1. On this Web UI, click **Manage Policy > Radio Policy**.

2. Click  to modify a policy's parameter.

The parameter *Policy* can't be modified.

3. Click **Save** to apply your settings.

After you modify a policy, go to **Manage AP > AP Group Modify** and re-deliver the policy to take effect.

Delete a Radio Policy

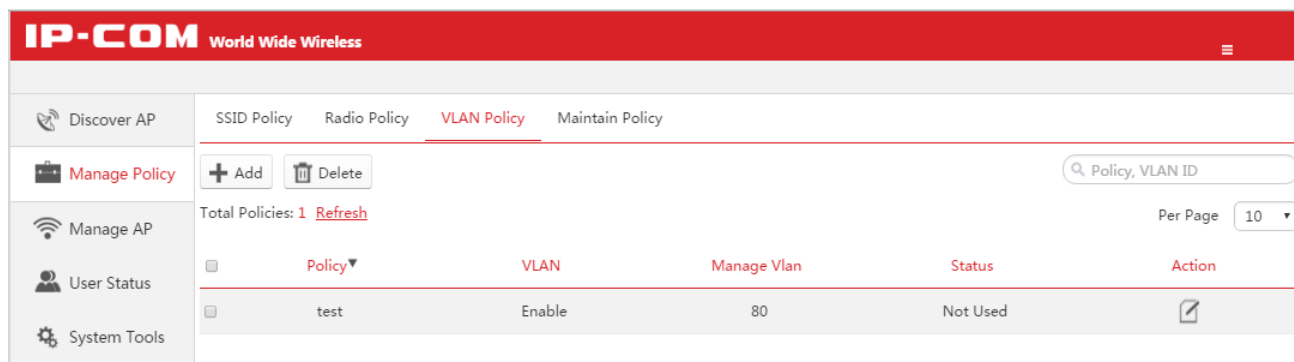
1. On this Web UI, click **Manage Policy > Radio Policy**.

2. Select the policies that will not be used any more.

3. Click **Delete**.

It is not recommended to delete the policies that are delivered to an AP.

3 VLAN Policy



Create a VLAN Policy

1. On this Web UI, click **Manage Policy** > **VLAN Policy**.
2. Click **Add** to create a policy.
3. Click **OK** to apply your settings.

VLAN Policy

Policy

AP VLAN Enable Disable

PVID Range : 1-4094

Manage Vlan Range : 1-4094

Trunk Mode LAN 0 LAN 1


Access Mode VLAN ID (1-4094)

LAN 0

LAN 1

Parameter Description:

Item	Description
Policy	Enter a unique VLAN Policy name.
AP VLAN	Enable/disable AP's 802.1Q VLAN feature. Only after this feature is enabled and this VLAN policy is delivered to AP, "VLAN ID" in Manage Policy > SSID policy takes effect.

PVID	Enter AP Trunk port's default VLAN ID. It is recommended to set to "1".
Manage Vlan	<p>AP's Management VLAN ID.</p> <p> Note</p> <ul style="list-style-type: none"> If you modify this value and deliver the VLAN policy to AP, make sure the AC can communicate with the AP by the same VLAN ID. <p>(1. Log in to the Web UI for fit AP management, go to Network Setting > Network Setting > VLAN Interface Settings and create an appropriate VLAN interface.</p> <p>2. Log in to the Web UI for fat AP management, go to System Tools > Network Settings and select the correct VLAN interface.)</p> <ul style="list-style-type: none"> Only when a management computer and an AP are in the same VLAN, can the computer access the AP's Web UI.
Trunk Mode	<p>Select wired LAN port as a trunk port which allows all VLAN packets to pass.</p> <p>Note: If AP has only one LAN port, select LAN0.</p>
Access Mode	Display the port(s) in access mode. If a port has been a trunk port, it cannot be an access port.
LAN 0 LAN 1	Set up the Access port's VLAN ID.
Status	Display whether the Policy is used or not.

Modify a VLAN Policy

1. On this Web UI, click **Manage Policy > VLAN Policy**.

2. Click  to modify a policy's parameter.

The parameter *Policy* can't be modified.

3. Click **OK** to apply your settings.

After you modify a policy, go to **Manage AP > AP Group Modify** and re-deliver the policy to take effect.

Delete a VLAN Policy

1. On this Web UI, click **Manage Policy > VLAN Policy**.

2. Select the policies that will not be used any more.

3. Click **Delete**.

It is not recommended to delete the policies that are delivered to an AP.

4 Maintain Policy

The screenshot displays the IP-COM Web UI for the 'Maintain Policy' section. The top navigation bar includes 'SSID Policy', 'Radio Policy', 'VLAN Policy', and 'Maintain Policy'. Below the navigation, there are buttons for '+ Maintain Policy', '+ Alert Policy', '+ Admin Policy', '+ Deployment Policy', and 'Delete'. A search bar is also present. The main content area shows a table of policies with the following data:

Policy	LED	Maintain Policy	Alert Policy	Admin Policy	Signal Transmission	Signal Reception	Status	Action
test	----	----	----	User Name : test Password: test	----	----	Not Used	[Edit]
333	----	----	----	----	High Density	Default	Used	[Edit]
0000	----	----	----	User Name : 0000 Password: 0000	----	----	Used	[Edit]

Overview

Maintain Policy

This policy is used to reboot APs regularly or circularly. In this way, the APs can provide a better reliability. Besides, you can enable or disable LED status as required.

Alert Policy

This policy is used to configure alert methods and alert events.

Admin Policy

This policy is used to configure AP's login username and password.

By default, all APs' login username and password are admin. To avoid unauthorized users to log in to the AP's Web UI and modify settings, it is recommended to change the login username and password.

Deployment Policy

This policy is mainly used to configure appropriate scenarios as required.

Create a Maintain Policy

1. On this Web UI, click **Manage Policy > Maintain Policy**.
2. Click **Maintain Policy** to create a policy.

3. Click **OK** to apply your settings.

Parameter Description:

Item	Description
Policy	Enter a unique maintain Policy name, which cannot be the same with other maintain/alert/admin/deployment policies.
LED	Enable/Disable AP's LED indicators.
Auto Maintain	Enable/Disable AP's auto reboot feature. If enabled, the AP will automatically reboot at a specified time (recommended in leisure time) to ensure AP's performance.
Maintain Type	Select AP reboot type. <ul style="list-style-type: none"> Circularly: The AP will automatically reboot periodically at a specified interval. Schedule: The AP will automatically reboot at specified date and time.
Maintain Time (Circularly)	Specify AP reboot interval when Circularly is selected.
Maintain Time (Schedule)	Specify AP reboot time when Schedule is selected.
Everyday, Mon, Tue, Wed, Thu, Fri, Sat, Sun	Specify AP reboot date when Schedule is selected.

Create an Alert Policy

1. On this Web UI, click **Manage Policy** > **Maintain Policy**.
2. Click **Alert Policy** to create a policy.
3. Click **OK** to apply your settings.

Alert Policy

Policy

Software Alert

Email Alert [test](#)

Email Password

Alert Interval Minutes

AP Failure Alert ON

AP Traffic Alert OFF

Traffic Limit MB

Parameter Description:

Item	Description
Policy	Enter a unique alert Policy name, which cannot be the same with other maintain/alert/admin/deployment policies.
Software Alert	<p>Enable/Disable the software alert function.</p> <p>When enabled, please enter IP address of the host which receives alert logs, and the access controller will send alert logs directly to the alert client program running on the host.</p> <p>Tip: For the description of alert client program, please refer to Appendix Run Alert Client.</p>
Email Alert	Enable/Disable Email Alert function. When enabled, please enter an email address for sending/receiving AP alert logs, and the access controller will regularly send alert logs using the email address to the same email address of the network administrator.

E-mail password	Enter the sending email password. After you set up Email address and Email password, you can click test to check whether the Email address is available.
Alert Interval	When you enable the email alert function, please enter the interval of sending alert logs.
AP Failure Alert	Enable/Disable AP Failure Alert. If enabled, the access controller will send alert logs, such as AP reboot, AP online or offline, and so on.
AP Traffic Alert	Enable/Disable AP Traffic Alert. If enabled, the access controller will send alert logs when AP traffic reaches its limit.
Traffic Limit	The access controller will send alert logs when AP traffic reaches this limit.
AP Client Alert	Enable/Disable AP Client Alert. The access controller will send alert logs when the number of connected clients reaches its limit.
Client Limit	The access controller will send alert logs when AP's connected clients reach this number.

Create an Admin Policy

1. On this Web UI, click **Manage Policy** > **Maintain Policy**.
2. Click **Admin Policy** to create a policy.
3. Click **OK** to apply your settings.

Admin Policy

Policy

User Name

Password

Confirm Password

Parameter Description:

Item	Description
Policy	Enter a unique Admin Policy name, which cannot be the same with other maintain/alert/admin/deployment policies.
User name	Set up AP's login account. It supports letters (case-sensitive), numbers, and underscores. The range of length is 3~32 characters.
Password	Set up AP's login password. It supports letters (case-sensitive), numbers, and underscores. The range of length is 3~32 characters.
Confirm Password	Repeat the password.

Create a Deployment Policy

1. On this Web UI, click **Manage Policy > Maintain Policy**.
2. Click **Deployment Policy** to create a policy.
3. Click **OK** to apply your settings.

Deployment Policy

Policy

Signal Transmission Coverage High Density

Signal Reception Default Coverage High Density

Ethernet Mode Standard 10M Half-Duplex

Parameter Description:

Item	Description
Policy	Enter a unique SSID deployment policy name, which cannot be the same with other maintain/alert/admin/deployment policies.
Signal Transmission	<ul style="list-style-type: none">Coverage: This mode can increase AP's coverage and is often used in ordinary scenario with low-density AP deployment, such as offices, public buildings, schools, warehouses, hospitals, and so on.High Density: This mode can reduce interference between APs and is often used in high-density scenario with high-density AP deployment, such as venues, theatres, exhibition halls, banquet halls, indoor / outdoor stadiums, classrooms, airports, railway stations, and so on.
Signal Reception	<ul style="list-style-type: none">Coverage: It is often used in a scenario with low-density AP deployment and tries to make sure clients successfully connect to an AP.High Density: It is often used in a scenario with high-density AP deployment and tries to make sure clients connect to an AP with better signal.Default: It is between the two modes above.
Ethernet mode	Select AP LAN port's Ethernet mode. <ul style="list-style-type: none">Standard: In this mode, it will transmit in a shorter distance with higher speed. In general, it is recommended to select this option.10M Half-Duplex: It can transmit in a longer distance with lower speed. When the distance between AP and the remote device are more than 100 meters, please select "10M half-duplex" to make signal travels further. You must ensure that the remote device works in auto negotiation mode, or AP LAN port can't send and receive data.

Modify a Policy

1. On this Web UI, click **Manage Policy > Maintain Policy**.

2. Click  to modify a policy's parameter.

The parameter *Policy* can't be modified.

3. Click **Save** to apply your settings.

After you modify a policy, go to **Manage AP > AP Group Modify** and re-deliver the policy to take effect.

Delete a Policy

1. On this Web UI, click **Manage Policy** > **Maintain Policy**.
2. Select the policies that will not be used any more.
3. Click **Delete**.

It is not recommended to delete the policies that are delivered to an AP.

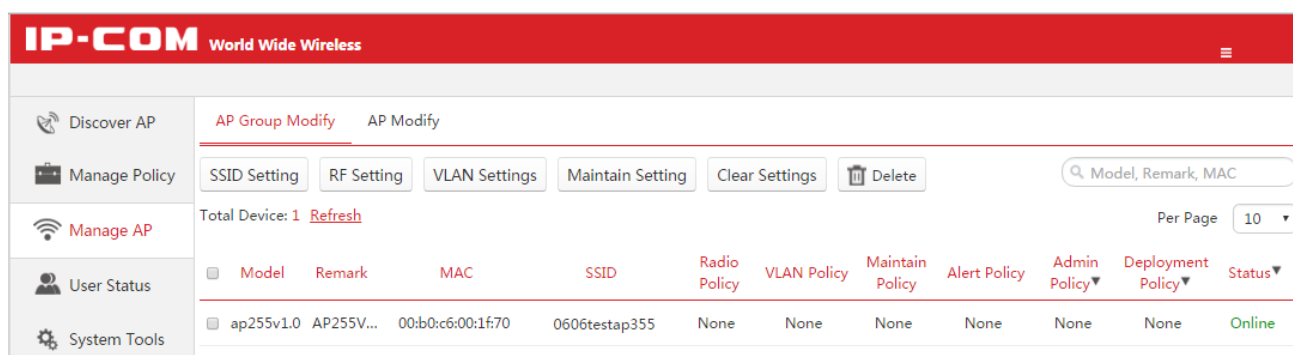
04 Manage AP

To deliver policies to appropriate APs and manage the APs, follow this part.

This section includes two parts, **AP Group Modify** and **AP Modify**.

1 AP Group Modify

This section is used to deliver policies to appropriate APs.

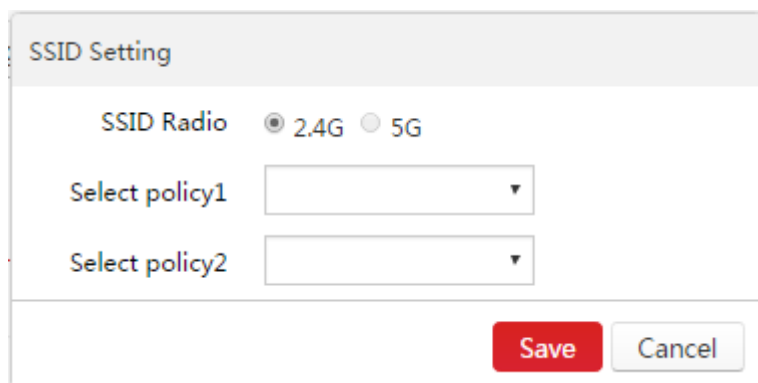


SSID Setting

It is used to deliver SSID policies to appropriate APs.

To deliver a SSID policy to an AP:

1. On this Web UI, click **Manage AP > AP Group Modify**.
2. Check the box to select online APs that need to use the same SSID policy.
3. Click **SSID Setting**.
4. On the pop-up window, select SSID policy names.
5. Click **Save** to apply your settings.



Parameter Description:

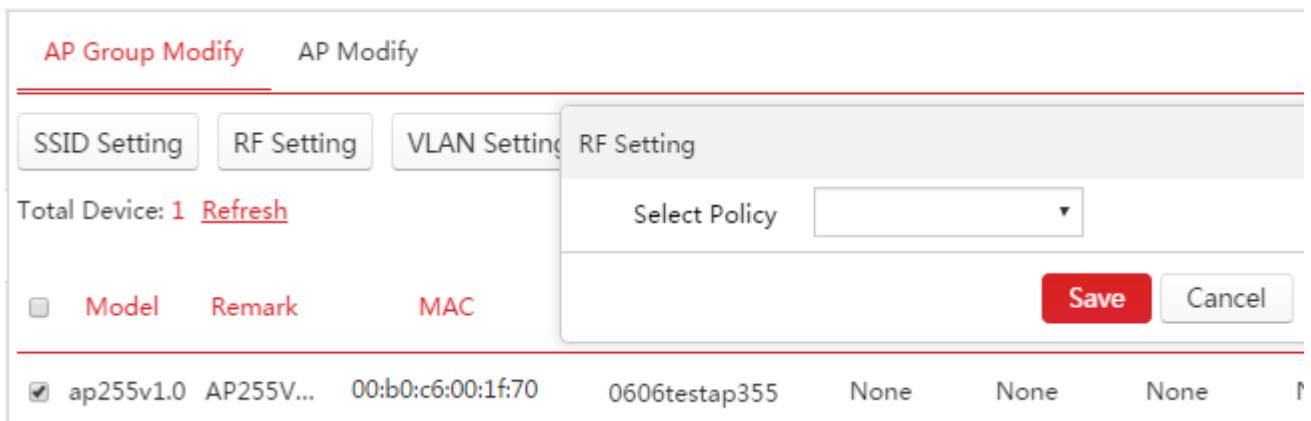
Item	Description
SSID Radio	<p>Deliver SSID policies to 2.4G and 5G of the selected APs.</p> <p>If an AP does not support 5G band, the 5G band can't be configured.</p> <p>If some of the selected APs support 2.4G and others support 2.4G and 5G, then the AC will automatically deliver policies based on AP's actual supported band.</p>
Select policy1...n	<p>Policy 1 will be delivered to the AP's primary SSID and n depends on the amount of supported SSIDs by the AP.</p> <ul style="list-style-type: none">• If it keeps blank, it indicates that the SSID is enabled and is not delivered by the AC.• "Disable" indicates that the SSID is disabled. <p>If you select multiple APs and different APs support different amount of SSIDs, then the AC will deliver actual supported SSIDs to corresponding APs.</p>

RF Setting

It is used to deliver radio policies to appropriate APs.

To deliver a radio policy to an AP:

1. On this Web UI, click **Manage AP > AP Group Modify**.
2. Check the box to select online APs that need to use the same radio policy.
3. Click **RF Setting**.
4. On the pop-up window, select a radio policy name.
If you select disable, the AP's wireless radio function will be disabled.
5. Click **Save** to apply your settings.

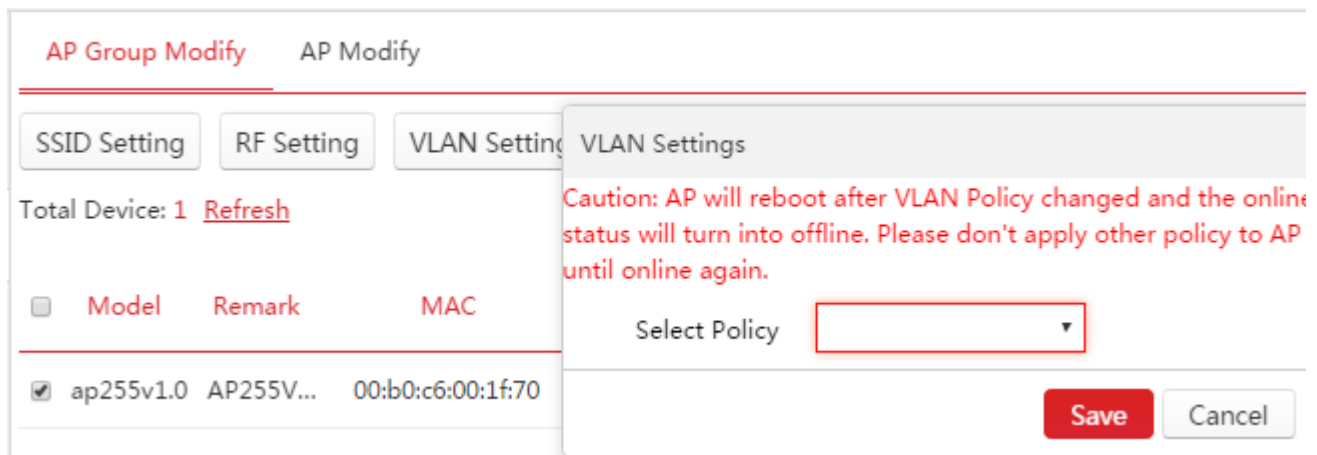


VLAN Setting

It is used to deliver VLAN policies to appropriate APs.

To deliver a VLAN policy to an AP:

1. On this Web UI, click **Manage AP > AP Group Modify**.
2. Check the box to select online APs that need to use the same VLAN policy.
3. Click **VLAN Setting**.
4. On the pop-up window, select a VLAN policy name.
If you keep it blank, the AP will disable QVLAN function.
5. Click **Save** to apply your settings.



The screenshot shows the 'AP Group Modify' web interface. At the top, there are tabs for 'SSID Setting', 'RF Setting', and 'VLAN Setting'. Below the tabs, it says 'Total Device: 1 Refresh'. There is a table with columns 'Model', 'Remark', and 'MAC'. One device is listed: 'ap255v1.0 AP255V... 00:b0:c6:00:1f:70'. A pop-up window titled 'VLAN Settings' is overlaid on the table. It contains a red warning message: 'Caution: AP will reboot after VLAN Policy changed and the online status will turn into offline. Please don't apply other policy to AP until online again.' Below the warning is a 'Select Policy' dropdown menu and 'Save' and 'Cancel' buttons.

Once you deliver a VLAN policy to an AP, it will reboot and this process will take about 2~3 minutes.

After that, the AP will get online automatically. If not, please make sure the AC can communicate with the AP by the same VLAN ID.

- (1. Log in to the Web UI for fit AP management, go to **Network Setting > Network Setting > VLAN Interface Settings** and create an appropriate VLAN interface.
2. Log in to the Web UI for fat AP management, go to **System Tools > Network Settings** and select the correct VLAN interface.)

Maintain Setting

It is used to deliver maintain policies to appropriate APs.

To deliver maintain policies to an AP:

1. On this Web UI, click **Manage AP > AP Group Modify**.
2. Check the box to select online APs that need to use the same maintain policies.
3. Click **Maintain Setting**.
4. On the pop-up window, select maintain policies.
If you keep it blank, the AP will not use any maintain policy.

5. Click **Save** to apply your settings.

The screenshot shows the 'AP Group Modify' interface. At the top, there are tabs for 'SSID Setting', 'RF Setting', 'VLAN Setting', and 'Maintain Setting'. Below the tabs, it says 'Total Device: 1 Refresh'. A table lists APs with columns for 'Model', 'Remark', and 'MAC'. One AP is selected: 'ap255v1.0 AP255V...' with MAC '00:b0:c6:00:1f:70'. A modal window titled 'Maintain Setting' is open, showing four dropdown menus: 'Maintain Policy', 'Alert Policy', 'Admin Policy', and 'Deployment Policy'. At the bottom of the modal are 'Save' and 'Cancel' buttons.

Clear Settings

It is used to restore maintain policy and alert policy of the selected online APs to factory default.

To clear settings of maintain policy and alert policy:

1. On this Web UI, click **Manage AP > AP Group Modify**.
2. Check the box to select online APs that need to restore maintain policy and alert policy to factory default.
3. Click **Clear Settings**.

The screenshot shows the 'AP Group Modify' interface with the 'Clear Settings' button visible. The table has columns for 'Model', 'Remark', 'MAC', 'SSID', 'Radio Policy', 'VLAN Policy', 'Maintain Policy', and 'Alert Policy'. The selected AP 'ap255v1.0 AP255V...' has 'None' for 'Radio Policy', 'VLAN Policy', and 'Maintain Policy'. The 'Alert Policy' column is partially visible.

Delete

It is used to delete one or more offline APs.

To delete offline APs:

1. On this Web UI, click **Manage AP > AP Group Modify**.

2. Check the box to select offline APs that need to delete.
3. Follow onscreen instructions to finish the step.



Tip

- Online APs can't be deleted.
- After you delete an offline AP, it keeps configuration delivered before. If the AP works properly, users can still use the wireless network unless the AP is restored to factory default.

2 AP Modify

To reboot, upgrade and reset selected online APs, to delete selected offline APs, to switch fat APs to fit APs, or to change RF settings of an AP, click **Manage AP** → **AP Modify** to enter the following page.

Model	Remark	MAC	Radio	SSID	Online User	TX Power	Channel	RSSI	5G Priority	Version	Status	Action
ap255v...AP255V...		00:b0:c6:00:1f:70	2.4G	0606testap355	0	18dBm	Auto	-90	Disable	V1.0.0.7(2...	Online	

Reboot

It is used to reboot one or more APs.

To reboot APs:

1. On this Web UI, click **Manage AP** > **AP Modify**.
2. Check the box to select online APs that need to reboot.
3. Click **Reboot**.

Model	Remark	MAC	Radio	SSID	Online User	TX Power	Channel	RSSI
<input checked="" type="checkbox"/>	ap255v...AP255V...	00:b0:c6:00:1f:70	2.4G	0606testap355	0	18dBm	Auto	-90

When an AP is rebooting, it will be offline for about 1~2 minutes. After the AP finishes rebooting, it will get online automatically. You can click [Refresh](#) to check the AP's newest status.

Upgrade

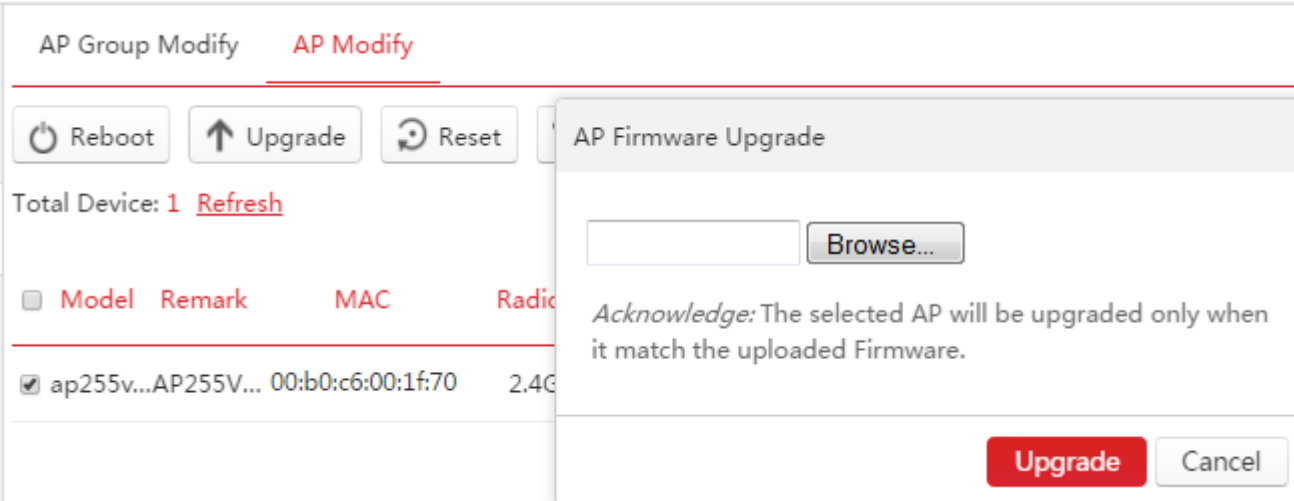
It is used to upgrade a firmware for one or more APs.

Note

- When an AP is upgrading, DO NOT power off the AC and AP or it may cause damage to the AP! If a sudden power off occurs, please upgrade again. If you cannot log in to AP's Web UI after a sudden power off, please contact our technical support engineer.
- If you select multiple APs, the AC will only upgrade APs that match the firmware.

To upgrade APs:

1. Go to <http://www.ip-com.com.cn> and download the AP's matched firmware to an appropriate directory. Unzip the firmware if necessary.
2. On this Web UI, click **Manage AP > AP Modify**.
3. Check the box to select online APs that need to upgrade.
4. Click **Upgrade**.
5. On the pop-up window, click **Browse** to upload the firmware and click **Upgrade**.
6. Follow onscreen instructions to finish the step.



The screenshot shows the 'AP Modify' section of a web interface. At the top, there are buttons for 'Reboot', 'Upgrade', and 'Reset'. Below these, it says 'Total Device: 1 Refresh'. A table lists APs with columns for 'Model', 'Remark', 'MAC', and 'Radio'. One AP is selected with a checkbox. A modal dialog titled 'AP Firmware Upgrade' is open, featuring a 'Browse...' button, a warning message: 'Acknowledge: The selected AP will be upgraded only when it match the uploaded Firmware.', and 'Upgrade' and 'Cancel' buttons at the bottom.

Upgrading process will take about 2~3 minutes. After finishing upgrading, you can check Version on this page to see whether the AP upgrades successfully.

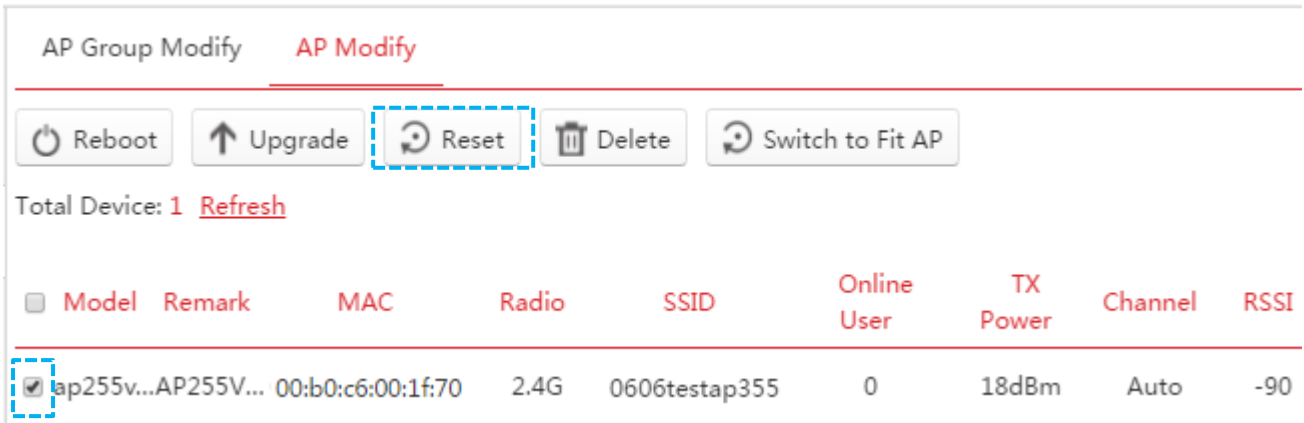
Reset

It is used to restore one or more APs to factory default.

To reset APs:

1. On this Web UI, click **Manage AP > AP Modify**.
2. Check the box to select online APs that need to reset.

3. Click **Reset**.



The screenshot shows the 'AP Modify' interface. At the top, there are two tabs: 'AP Group Modify' and 'AP Modify'. Below the tabs is a row of action buttons: 'Reboot', 'Upgrade', 'Reset', 'Delete', and 'Switch to Fit AP'. The 'Reset' button is highlighted with a dashed blue box. Below the buttons, it says 'Total Device: 1 Refresh'. A table below shows the AP details:

<input type="checkbox"/>	Model	Remark	MAC	Radio	SSID	Online User	TX Power	Channel	RSSI
<input checked="" type="checkbox"/>	ap255v...	AP255V...	00:b0:c6:00:1f:70	2.4G	0606testap355	0	18dBm	Auto	-90

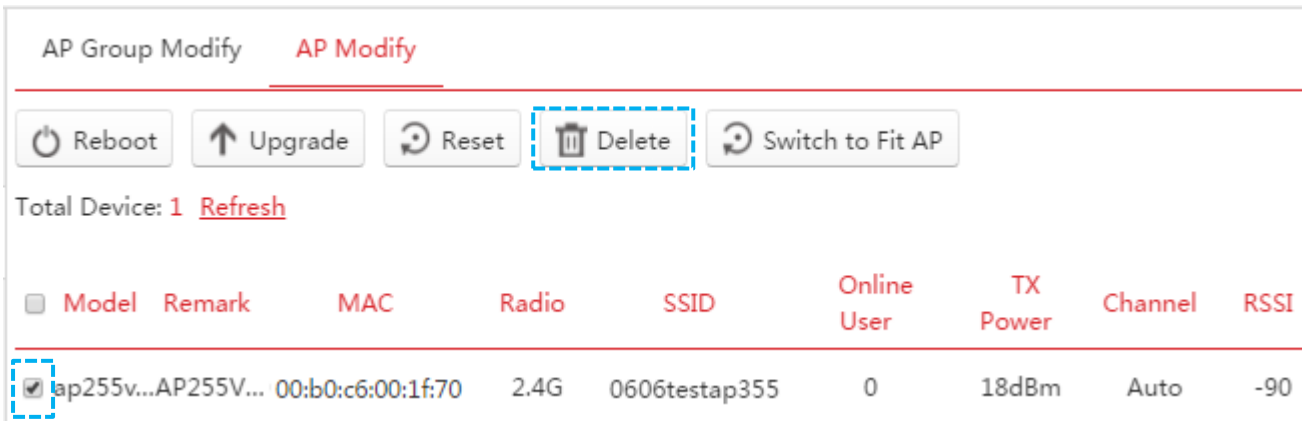
When an AP is resetting, it will be offline for about 2~3 minutes. After that, it will get online automatically. You can click [Refresh](#) to check the AP's newest status. If not, please make sure the AC works on a VLAN interface with VLAN ID 0.

Delete

It is used to delete one or more offline APs.

To delete APs:

1. On this Web UI, click **Manage AP > AP Modify**.
2. Check the box to select offline APs that need to delete.
3. Click **Delete** and follow onscreen instruction to finish the step.



The screenshot shows the 'AP Modify' interface. At the top, there are two tabs: 'AP Group Modify' and 'AP Modify'. Below the tabs is a row of action buttons: 'Reboot', 'Upgrade', 'Reset', 'Delete', and 'Switch to Fit AP'. The 'Delete' button is highlighted with a dashed blue box. Below the buttons, it says 'Total Device: 1 Refresh'. A table below shows the AP details:

<input type="checkbox"/>	Model	Remark	MAC	Radio	SSID	Online User	TX Power	Channel	RSSI
<input checked="" type="checkbox"/>	ap255v...	AP255V...	00:b0:c6:00:1f:70	2.4G	0606testap355	0	18dBm	Auto	-90



Tip

- Online APs can't be deleted.
- After you delete an offline AP, it keeps configuration delivered before. If the AP works properly, users can still use the wireless network unless the AP is restored to factory default.

Switch to Fit AP

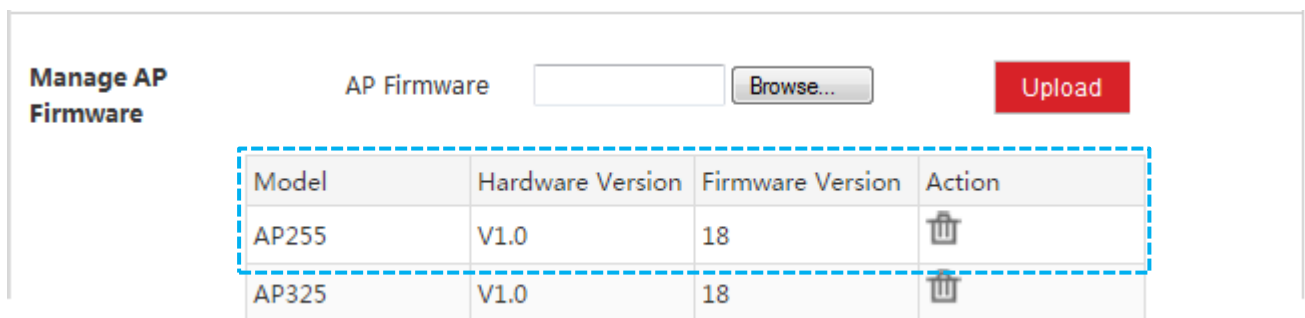
Most IP-COM APs are in fat AP mode when you purchase them. To easily manage your APs, switch them from fat AP mode to fit AP mode.

To switch to fit AP:

Step 1: Upload Fit AP's Firmware to AC

1. Go to <http://www.ip-com.com.cn> and download the AP's matched firmware to an appropriate directory.
2. Log in to the AC's Web UI and go to **System Tool > Maintenance > Manage AP Firmware**.
3. Click **Browse...** and upload the corresponding fit AP firmware to AC.
4. Click **Upload**.

Then you will see the AP's firmware.



Model	Hardware Version	Firmware Version	Action
AP255	V1.0	18	
AP325	V1.0	18	

Step 2: Switch Fat AP Mode to Fit AP Mode

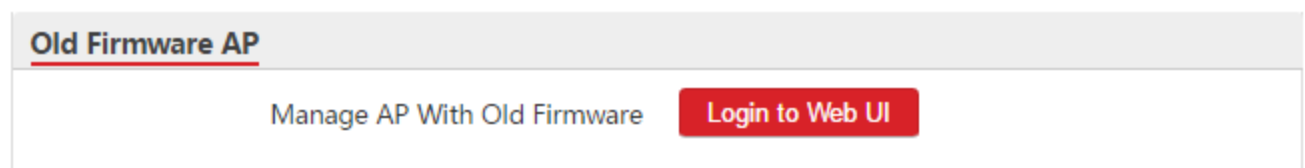


Note

When you are switching AP mode, DO NOT power off the AC and AP, or it might cause damage to the AP!

To Switch Fat AP Mode to Fit AP Mode:

1. Log in to the AC's first Web UI and go to **System Tool > Old Firmware AP**.



2. Click **Login to Web UI**.


Then you come to the second Web UI to manage fat AP.

3. On the second Web UI, go to **Manage AP > AP Modify**.

You can see all fat APs have been managed by AC automatically.

4. Select all APs and click **Switch to Fit AP**.

It will take about 1~2 minutes for all fat APs to switch to fit AP mode.


Discover AP	AP Group Modify AP Modify													
Manage Policy	<input type="button" value="Reboot"/> <input type="button" value="Upgrade"/> <input type="button" value="Reset"/> <input type="button" value="Delete"/> <input type="button" value="Switch to Fit AP"/>					<input type="text" value="Model, Remark, MAC"/>								
Manage AP	Total Device: 2 Refresh											Per Page 10		
User Status	<input type="checkbox"/>	Model	Remark	MAC	Radio	SSID	Online User	TX Power	Channel	RSSI	5G Priority	Version	Status	Action
System Tools	<input type="checkbox"/>	ap255v...AP255V...		00:b0:c6:00:1f:70	2.4G	0606testap355	0	18dBm	Auto	-90	Disable	V1.0.0.0(2...	Online	

Switch to fit AP successfully!


5. Go back to the AC's first Web UI and you can see all fit APs have been managed by the AC.

Modify

It is used to modify parameters for each AP.

<input type="checkbox"/>	Model	Remark	MAC	Radio	SSID	Online User	TX Power	Channel	RSSI	5G Priority	Version	Status	Action
<input type="checkbox"/>	ap355	AP355	00:B0:C6:60:90:70	2.4G 5G	guest guest	0 0	22dBm 20dBm	Auto 149	-90 -90	Enable	V2.0.0.9(3...	Online	

To modify an AP's parameter:

1. On this Web UI, click **Manage AP > AP Modify**.
2. Click  on the right page to modify an AP's settings.
3. Click **OK** to apply your settings.

AP Modify

2.4G
5G

WiFi Enable Disable

Country

Network Mode

Bandwidth 20 40 Auto

Channel

Extension

Channel

Interference Mode

TX power dBm

AP Modify

2.4G
5G

Interference Mode

TX power dBm

RSSI Range (-90~-60dBm)

WMM Enable

SSID Isolation Enable

APSD Enable

Time Age For Client

Parameter Description:

Item	Description
2.4G/5G	Click 2.4G or 5G to modify corresponding parameters.
WiFi	Enable/disable AP's WIFI at each band.
Country	Different countries have different allowable channels. Most countries allow the first eleven channels in the spectrum.
Network Mode	<p>Select a Network Mode. 2.4G band includes 11b, 11g, 11b/g and 11b/g/n, while 5G band includes 11a, 11ac and 11a/n. Descriptions are as follows.</p> <p>11b: Works in 2.4G band and supports up to 11 Mbps.</p> <p>11g: Works in 2.4G band and supports up to 54 Mbps.</p> <p>11b/g: If you select this option, wireless clients supporting 802.11b or 802.11g can connect to the WiFi.</p> <p>11b/g/n: If you select this option, wireless clients supporting 802.11b, 802.11g or 802.11n can connect to the WiFi.</p> <p>11a: Works in 5G band and supports up to 54 Mbps.</p> <p>11ac: Works in 5G band and supports up to 1300Mbps. It is a newer standard that uses wider channels, QAM and spatial streams for higher throughput.</p> <p>11a/n: Works in 5G band and supports up to 300Mbps, compatible with 11n.</p>
Bandwidth	<p>Select the wireless bandwidth.</p> <ul style="list-style-type: none"> • 20: 20MHz channel bandwidth. • 40: The APs using this RF policy are preferred to use 40MHz channel bandwidth. However, if the interference is so big, it will use 20MHz channel bandwidth automatically. • 80: Automatically adjust the channel bandwidth to 20MHz, 40MHz or 80MHz based on surrounding environment. • Auto: Automatically adjust the channel bandwidth to 20MHz or 40MHz based on surrounding environment.
Channel	Select the wireless channel. Channel range differs from country and radio band.
Extension Channel	When bandwidth is 40 or Auto, this is used to determine the channel range of AP.

Interference Mode	<ul style="list-style-type: none"> • Default: Use AP's default settings. • 0: Disable any interference immunity method. • 1: Enable interference immunity at the same radio band, such microwave oven, mobile phone, Bluetooth device, and so on. • 2: Force to enable interference immunity. It is often used when amount of interference source is below 30. • 3: Automatically enable interference immunity according to the real-time radio environment. • 4: Automatically enable interference immunity according to the real-time radio environment and reduce radio noise. It is often used when amount of interference source is over 30, such a high-density scenario.
TX power	AP wireless transmitting power. If this value is greater than the maximum supported power of an AP, the latter takes effect after the policy is delivered.
RSSI	<p>RSSI is short for Received Signal Strength Indication.</p> <p>If a wireless client's signal is lower than this value, the client cannot connect to the AP, which helps the client to connect to an AP with stronger signal.</p>
WMM	Wi-Fi Multimedia (WMM) provides basic Quality of Service (QoS) features to IEEE 802.11 networks. WMM prioritizes traffic according to four Access Categories (AC) - voice, video, best effort, and background. It does not provide guaranteed throughput and is suitable for Voice over IP (VoIP) on Wi-Fi phones (VoWLAN).
SSID Isolation	<p>Enable/Disable SSID isolation.</p> <p>When enabled, wireless clients that connect to different SSID of the AP cannot communicate with each other.</p>
APSD	APSD is short for Automatic Power Save Delivery. It is basically a feature mode that allows your mobile devices to save more battery while connect to your WiFi network. By allowing your mobile devices to enter standby or sleep mode, it conserves energy. It is only effective when you enable WMM.
Time Age For Client	<p>After a client connects to the AP:</p> <p>If there is no data transmission within the time period, AP will actively disconnect the client.</p> <p>If data transmission is detected within the time period, AP will recalculate the time age.</p>

05 User Status

To check the information of connected users or export the information to a directory, click **User Status** to enter this page.

To download this page’s information to an appropriate directory, click **Export** on the page and then follow onscreen instructions. The exported file is in the format *Filename.xls*.

If a warning message appears when you open the exported file, click **Yes**.

Parameter Description:

Item	Description
Remark	Display an AP’s remark. By default, it is the AP’s model. In order to manage different APs easily, it is recommended to set up Remark as the AP’s location.
Model	Display an AP’s model.
SSID	Display the AP’s SSID which the user connects to.
Radio	Display the AP’s radio band which the user connects to.
Client's IP	Display the user device’s IP address.
Client's MAC	Display the User device's MAC address.
Download	Display the user's total download traffic.
RSSI	RSSI is short for Received Signal Strength Indication. If a wireless client’s signal is lower than AP’s specified value, the client cannot connect to the AP, which helps the client to connect to an AP with stronger signal. The RSSI here displays the user’s RSSI.
Online Time	Display the online period of the user.

Status

Display whether the user is online or offline.

Online: The user has successfully connected to the AP currently.

Offline: The user does not connect to the AP currently.

06 System Tools

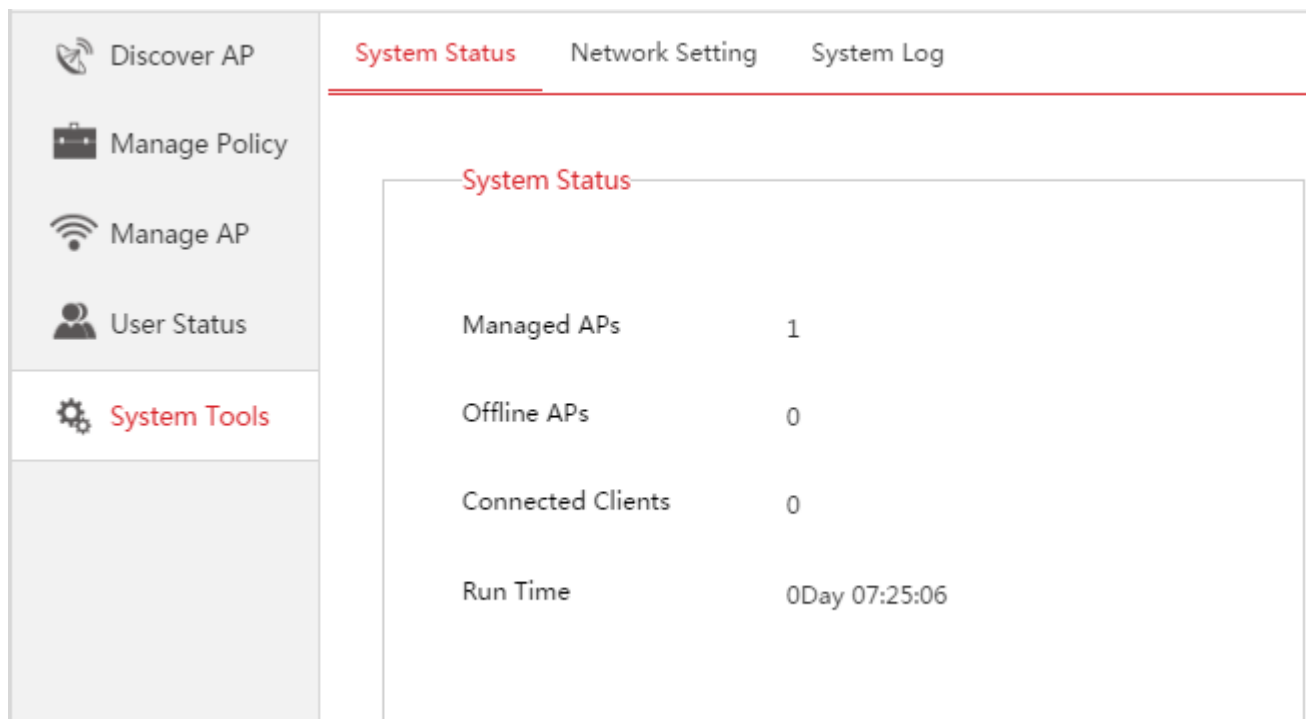
This part contains the following topics.

[System Status](#): On this page, you can check system status and IP address.

[Network Setting](#): It is used to set up the IP address and DHCP server for fat AP management.

[System Log](#): On this page, you can check the AC and fat AP' logs.

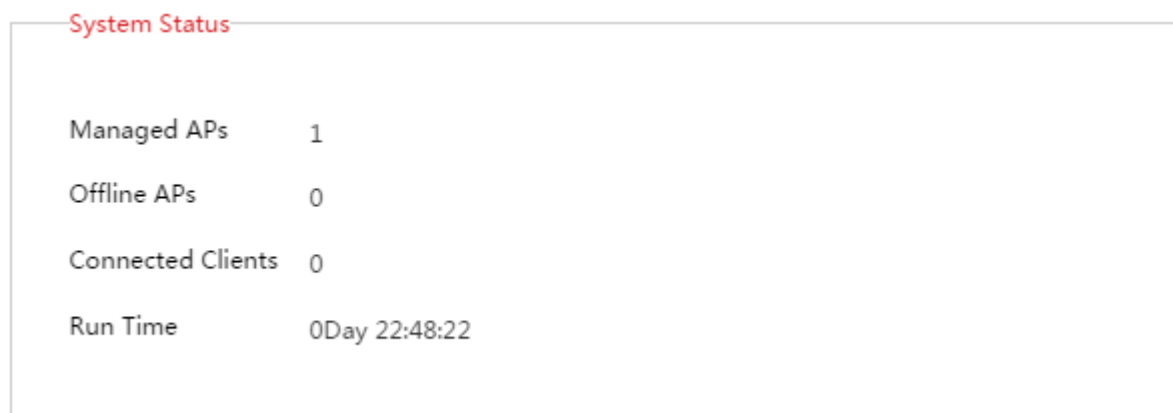
1 System Status



The screenshot shows a management interface with a sidebar on the left and a main content area on the right. The sidebar contains several menu items: Discover AP, Manage Policy, Manage AP, User Status, and System Tools (highlighted in red). The main content area has three tabs: System Status (highlighted in red), Network Setting, and System Log. Below the tabs is a box titled 'System Status' containing a table with the following data:

Managed APs	1
Offline APs	0
Connected Clients	0
Run Time	0Day 07:25:06

System Status



This image shows a detailed view of the System Status page. It features a box titled 'System Status' containing a table with the following data:

Managed APs	1
Offline APs	0
Connected Clients	0
Run Time	0Day 22:48:22

This section displays the status of following parameters.

Item	Description
Managed APs	Display the amount of online APs that are managed by the AC.
Offline APs	Display the amount of offline APs that were managed by the AC.
Connected Clients	Display the amount of users that are connected to online APs.
Run Time	Display the duration of time that the AC has been running from last reboot. Run time will be re-counted when the AC reboots.

Network Information

Display the IP address and its subnet mask which are used for fat AP management.

Network Information	
IP Address	192.168.10.1
Subnet Mask	255.255.255.0

2 Network Setting

The screenshot shows the 'Network Setting' page within the 'System Tools' menu. The page has three tabs: 'System Status', 'Network Setting' (which is selected and highlighted in red), and 'System Log'. The main content area contains the following configuration fields:

VLAN Interface	default
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
Gateway	192.168.10.1
Preferred DNS	192.168.10.1
Alternate DNS	

At the bottom right of the configuration area, there is a red 'OK' button.

Set up IP Information

On this section, you can set up an IP address which is used for fat AP management. The backup VLAN interfaces are configured in the Web UI for fit AP management.

This screenshot is a detailed view of the 'Network Setting' page. It shows the same configuration fields as the previous screenshot, but with the 'IP Address' field set to '192.168.10.1'. The 'OK' button is also visible at the bottom.

VLAN Interface	default
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
Gateway	192.168.10.1
Preferred DNS	192.168.10.1
Alternate DNS	

At the bottom right of the configuration area, there is a red 'OK' button.

To set up network information for fat AP management:

1. On this Web UI, click **System Tools > Network Setting**.

2. Select a VLAN interface (and IP address if necessary).
Make sure the selected VLAN interface and fat APs are on the same VLAN.
3. Click **OK**.
4. Refer to [DHCP Setting](#) to ensure that DHCP IP pool and the VLAN interface are on the same IP segment.

After finishing configurations above and wait for about 2~3 minutes, go to **Manage AP > AP Modify** to check whether the AP is online. If not, please make sure the AC can communicate with the AP by the same VLAN ID.

- (1. Log in to the Web UI for fit AP management, go to **Network Setting > Network Setting > VLAN Interface Settings** and create an appropriate VLAN interface.
2. Log in to the Web UI for fat AP management, go to **System Tools > Network Settings** and select the correct VLAN interface.)

DHCP Setting

It is used to assign IP address to fat APs.



Note


This DHCP server can't assign IP address to users. You can create users' DHCP servers on the first Web UI.

DHCP Setting

Start IP	<input type="text" value="192.168.10.100"/>
End IP	<input type="text" value="192.168.10.200"/>
Gateway	<input type="text"/>
Preferred DNS	<input type="text"/>
Alternate DNS	<input type="text"/>
Lease Time	<input type="text" value="1 Week"/>

OK

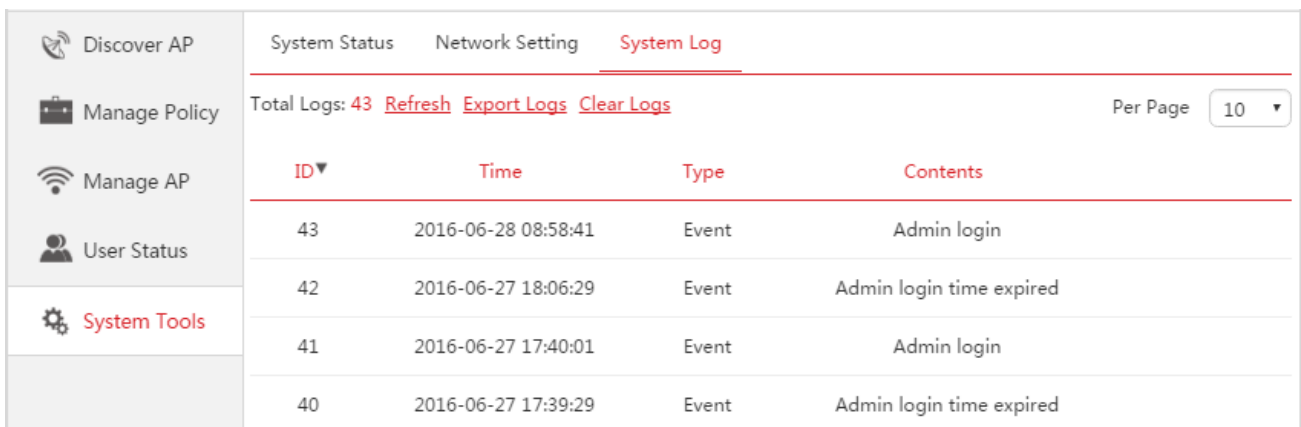
Parameter Description:

Item	Description
Start IP	Enter the Start IP address of DHCP address pool.
End IP	Enter the End IP address of DHCP address pool.  Note Start IP and End IP must be on the same IP segment.
Gateway	Enter the gateway which will be assigned to APs. It is recommended to set to uplink router's LAN IP address. If it keeps blank, APs will not obtain a gateway.
Preferred DNS	Enter the DNS server address which will be assigned to APs. If it keeps blank, APs will not obtain a DNS address.
Alternate DNS	It is optional.
Lease Time	Lease Time is the assigned IP address's effective time period. When lease time is due, the online APs can renew the lease time.

3 System Log

The AC's log system makes records of AP connections and alert information. You can sort logs by clicking the downward or upward triangle in each field shown in the list. The latest log will be displayed first. Oldest logs will be deleted to leave space for newest ones.

Click **System Tools** → **System Log** to get into this page.



ID	Time	Type	Contents
43	2016-06-28 08:58:41	Event	Admin login
42	2016-06-27 18:06:29	Event	Admin login time expired
41	2016-06-27 17:40:01	Event	Admin login
40	2016-06-27 17:39:29	Event	Admin login time expired

To check the latest log information, please click [Refresh](#).

To save your logs to a appropriate directory, please click [Export logs](#).

To delete all logs, please click [Clear logs](#).

 **Note**


- All the system logs will be lost if you reboot your AC.
 - The configurations including powering on AC, resetting AC to factory default or upgrading a firmware for AC, will make the AC reboot.
-

Appendix Run Alert Client

(Take Windows 7 as an example)

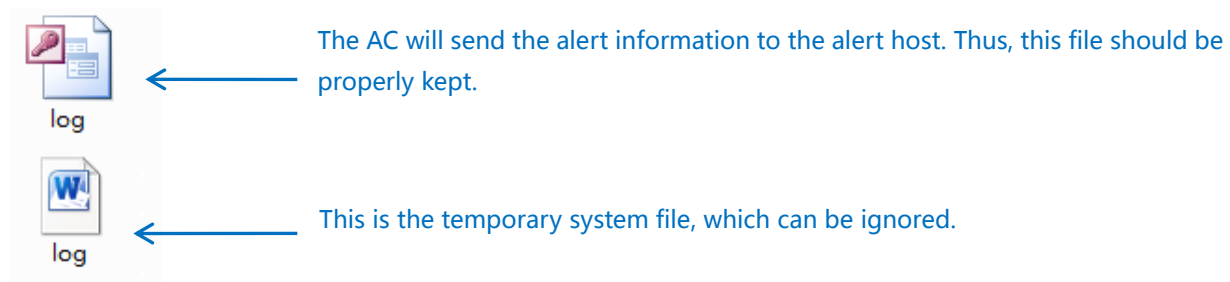
Run Alert Client:

1. Contact our IP-COM technical staff for the alert client program.
2. Put the program to a specified file on your hard disk, say "D:\AP Alarm".

3. Double click the program .

If a dialogue asking "Do you want to allow the following program from an unknown publisher to make changes to this computer?" pops out, please click **Yes**.


When it runs successfully, 2 files will be generated:

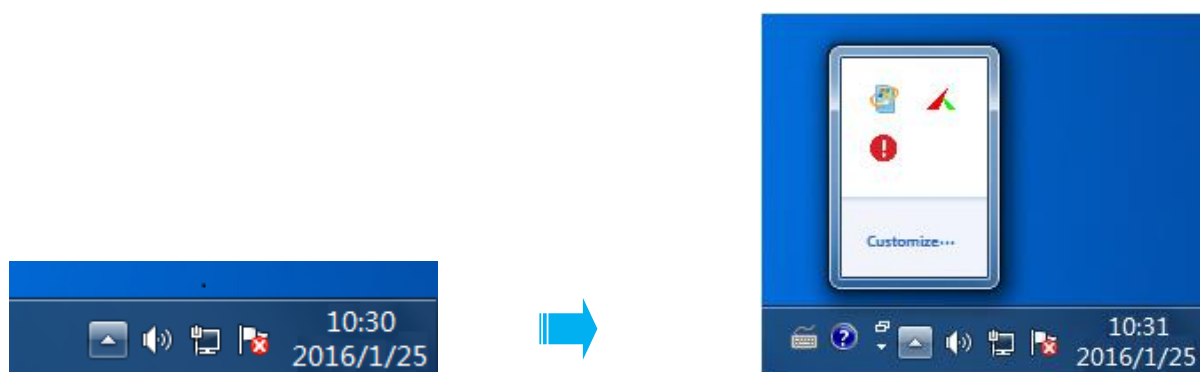


Then you can view the AP alert information directly on the alert program. Do as shown below:

1. Locate and double click the alert program  on the bottom right corner of the desktop.

Tip

If you can't locate the program directly, click the icon  on the bottom right corner of your desktop to display the hidden icons.



2. Then you can view the info on its page.

Alarm log

Refresh

Time	Alarm Type	Alarm Information
2016-1-25 17:05:12	Alarm	APState:AP(AP325V1.0 MAC = 00:b0:c6:11:11:18) link up.
2016-1-25 17:04:23	Alarm	APState:AP(AP325V1.0 MAC = 00:b0:c6:11:11:18) link down.

Click **Refresh** to view latest alarm info.