Wireless Management Platform

AC3000/GAPC-0516-07

User Manual

V1.0





Chapter 1 Manual Introduction

This manual is subject to tell users how to use this WLAN management platform properly; Contents include description of this platform's properties, and how to configure this platform; Pre-reading this manual before operation is highly recommended;

1.1 Target reader

This manual is for those familiar with basic networking knowledge and terminology;

1.2 Conventions

Without extra explanation, this device, or WIFI management platform mentioned on this guide stands for AC3000 Wifi management platform, short for AC3000/GAPC-0516-07;

>> stand for the sequence entering interface page; Default: Class A menu>>Sub menu;

There is no sub menu on some functions;

< including words> on body part, means menu name, like <apply>

"including words" means other definition except menu on Web page, like "ARP Binding"

Particular Icons on this manual is like follows:

1.3 Chapter allocations

Chapter 1: Manual Introduction

Grasp the structure of this manual, know convention of this manual, so that make well use of this manual;

Chapter 2: Product Introduction: Introduce properties application and layout of this device;

Chapter 3: Installation Guide: Instruct users how to login and manage this platform, then introduce the device's interface briefly;

Chapter 4: Function Settings: Introduce all functions of this platform, help clients to make fully use of this device;

Appendix A: Specifications;



Chapter 2: Product Introduction

2.1 Products description

AC3000/GAPC-0516-07 is a highly performance WIFI management platform, specially for WIFI in hotel or small-medium sized enterprise;

It's capable for managing all Access point, support AP auto-detection, AP status preview, AP configuration, MAC filtering, AP software upgrade simultaneously to provide high quality & performance& reliability, easy installation & maintenance WIFI service to different clients;

2.2 Products Properties

Hardware property

- Deploy dual core CPU, 880 Mhz frequency
- Deploy high capacity & speed memory, up to 256M DDR3 SDRAM;
- 5 * 10/100/1000Mbps Gigabit Ethernet port

Software property

- AC3000 detect and connect to wireless access point automatically, no need to configure any AP, realize true centralized AP management function
- Monitor AP status in real-time, auto-inspection AP's working status(up or down), show each AP status under interface page;
- Configure related properties to each AP simultaneously, like setting SSID, connection type, Security type, etc;
- Adjust WIFI RF output manually, to fit for different networking environment, to maximum WIFI coverage;
- AP address server function can allocate IP address for different AP working in the same segment, no need to set up AP's IP address manually;
- Support smart gateway mode, working as a Gigabit router, to realize router, AC, AP address server function in the same unit;
- Adjust each AP's WIFI settings like Channels or location remark, providing auto-restarting functions on AP;
- Support WIFI MAC filtering, only allow the device, whose MAC address is in the rule list, to have WIFI access, make sure a securer network allowed;
- Full WEB management, clear and concise ,make AP management easier and much convenient;



2.3 Product Layout

2.3.1 Front Panel

AC3000 front panel is like following:

Wireless Management Platform			
	00	0	
	Power Run	Kesét	LAN LAN LAN LAN-LAN/WAN

P2-1 AC3000's Front Panel Diagram

LED Indicator

LED Light	Name	Indication
Power	Power Light	Power is on, means status is up;
		Power is off, mean status is down;
Pup	System Light	flashing, means system status is normal
NUII	System Light	off or stable steady, means status is abnormal

Reset button

When need to restore the AC3000 into factory default, with the device powered on, use a pin to press and hold the reset button until all LED becomes quick-flash from slow-flash.

Then release the button and wait AC3000 to reboot to its factory default settings. After that, the default IP address of AC3000 is still 192.168.10.1, default user name and password are both admin;

RJ45 Ports: 5x 10/100M/1000Mbps auto-negotiation RJ45 Ethernet Port;

Support any connection devices in 10/100M/1000Mbps bandwidth;

Notice: LAN/WAN port is LAN port only on the default mode, only when WAN setting is enabled then LAN/WAN port will change to WAN port;



2.3.2 Real Panel

AC3000 real panel is like following:



P2-2 AC3000 Real Panel Diagram

DC Jacket

DC Jacket located on the right side of AC3000's real panel, input power should be ac power 100-240V~ 50/60Hz 0.3A

Anti-thunder ground connection 🚳

Please deploy ground connection to avoid lightening stroke, by copper core cable in yellow and green jacket;

For detailed installations please refer to related manuals, like <<Anti-thunder installation guide in devices>>

Attention:

Please use original power cord for installation;

Set locate power outlet near the devices, to make safer and easier installation and operation

Chapter 3 Configuration Guide

3.1 Login Web Interface

Pls confirm the following points before login AC3000:

- AC3000 has normal power up, one port has been connected with the management host.
- The management host has been properly installed IE 7.0 or higher browser version
- The management host IP address has been set the same network segment with AC3000, namely 192.168.10.X (X is between 2-254 arbitrary integer Number), a subnet mask of 255.255.255.0.
- In order to ensure a better effect of Web interface displays, it is recommended to adjust the display resolution to 1024 × 768 or more pixels.

Operation Steps:

A. Open IE browser, Input http://192.168.10.1/ in the address bar to login AC3000 Web management interface.

liktp:// 192.168.10.1



B. AC3000 login screen shown in P 3-1. In this screen enter the AC3000 for user name and password, the factory default is admin/ admin, click <OK>.



P 3-1 Web Login page

C. After a successful login, then see AC 3000 Web interface page, shown in P 3-2.

		Select	SN	Location	Device Name	Device IP	Device MAC	Users	Software Version	Channel	Online Time	Device Group	Config
3	Device List	. •	1			192.168.188.2	78 D3 8D A9 72 A8	0	V1.4	0	1Day 15:36:08	N/A	2
ហេ			2			192.168.188.3	78:D3:8D:AE:FD:C8	0	V1.4	0	1Day 0:04:22	N/A	1
a	Device Group		3			192.168.188.4	78:D3:8D:AD:B6:A8	0	V1.4	0	1Day 15:36:17	N/A	1
₩.			4			192.168.188.5	78:D3:8D:A9:63:04	0	V1.4	0	1Day 15:36:07	N/A	1
	Device Log		5			192.168.188.6	78:D3:8D:AF:BF:88	0	V3.2	7/149	2:33:23	N/A	1
			6			192.168.188.7	78.D3:8D:AD:B6:90	0	V1.4	0	1Day 15:36:15	N/A	1
¥8	Address Server		7			192.168.188.8	78:D3:8D:AA:FE:94	22	V1.4	11	1Day 15:36:10	N/A	1
			8			192.168.188.9	78:D3:8D:AD:B6:94	0	V1.4	11	1Day 15:36:16	N/A	1
æ	Intelligent Gateway	. •	9			192.168.188.10	78:D3:8D:AB:C8:5C	0	V1.4	0	1Day 15:36:11	N/A	1
			10			192.168.188.11	78:D3:8D:AD:B4:EC	0	V1.4	0	1Day 15:36:14	N/A	1
			11			192.168.188.12	78:D3:8D:A9:7F:80	22	V1.4	11	23:40:14	N/A	1
CPU: I	Dual Core 880MHz	•	12			192.168.188.13	78:D3:8D:AD:99:2C	0	V1.4	0	1Day 15:36:13	N/A	\$
	n Memory 2048M												
CPUL													
		_											
		_											
-													
		_								-		-	
		Connected	AP [12] Online A	P[12] Offine	AP [0] Users	4 All AP 🗸		Batch Set	Refresh	Delete Reboot R	eset Firmware u	upgrade
Softwar	e Version: AC3000-SP	I-V1 1-B20141	107210	352 Hardy	vare Version: V1	1 System un	time: 0Day 4:41:2						

P 3-2 AC3000's Web Interface page

3.2 Web Interface Introduction

3.2.1 Interface Overview

AC3000 typical Web interface shown in P 3-3.



	AP Management	AP Address Server			
1	Device List		Server IP Address 192 168	230 . 254	
uu	Contraction of the second		Server Subnet 255 255	255 0	
	Device Log		Server Address Pool 192 168	230 2 192 168 230 222	
			Lease Time 300	Range:(300-864000)s	
×	Address Server		Allocated AP number 159		
		AP address information list			Refresh Apply
R	Intelligent Gateway	AP Device Name	IP Address	MAC Address	Lease Time
		PW300	192.168.230.88	78:d3:8d:ad:b4:cc	0 D 00:04:43
		PW300	192.168.230.93	78:d3:8d:ad:b4:78	0 D 00:04:46
		XD9800	192.168.230.104	78:d3:8d:08:fc:e8	0 D 00:02:46
		XD9610S	192.168.230.110	78:d3:8d:ab:f9:5c	0 D 00:04:04
	PU: Dual Core 880MHz	PW300	192.168.230.132	78:d3:8d:ad:b4:74	0 D 00:04:45
	ystem Memory:2048M	PW300	192.168.230.148	78:d3:8d:a9:ed:00	0 D 00:04:46
	PU Usage:7%	XD9800	192.168.230.159	78:d3:8d:08:ef:10	0 D 00:04:44
		PW300	192.168.230.184	78:d3:8d ad:b4:60	0 D 00:04:46
	emory Usage:8%	PW300	192.168.230.188	78:d3:8d ad:b4:8c	0 D 00:04:45
		XD9300	192.168.230.202	78:d3:8d:ab:94:08	0 D 00:04:44
		XD9508S	192.168.230.24	78:d3:8d:aa:d2:10	0 D 00:04:45
		PW300	192.168.230.25	78:d3:8d:ab:5c:0c	0 D 00:04:04

P 3-3 Web Interface

In P3-4, on the left is one menu bar and two menu bar, on the right upper area of the tab is strip menu, when a menu contains multiple tabs, you can click on the tab title to switch tabs at the same level menu. The tabs on the right is separable into two parts, the tab area and a list of management area

	AP Management	Colored	SN	Location	Davica Nama	Davice IP	Device MAC	Heare	Software Version	Channel	Online Time	Davice Group	Config
្ឋ	Device List		1	Location	Device Name	<u>192.168.188.2</u>	78:D3:8D:A9:72:A8	0	V1.4	0	1Day 15:36:08	N/A	2
		- •	2			<u>192.168.188.3</u>	78:D3:8D:AE:FD:C8	0	V1.4	0	1Day 0:04:22	N/A	1
R		🗆 🌳	3			<u>192.168.188.4</u>	78:D3:8D:AD:B6:A8	0	V1.4	0	1Day 15:36:17	N/A	1
-		🗆 🌳	4			<u>192.168.188.5</u>	78:D3:8D:A9:63:04	0	V1.4	0	1Day 15:36:07	N/A	1
\mathbf{Z}		• •	5			<u>192.168.188.6</u>	78:D3:8D:AF:BF:88	0	V3.2	7/149	2:33:23	N/A	1
		□ 🕈	6			<u>192.168.188.7</u>	78:D3:8D:AD:B6:90	0	V1.4	0	1Day 15:36:15	N/A	1
XB	Address Server	• •	7			<u>192.168.188.8</u>	78:D3:8D:AA:FE:94	22	V1.4	11	1Day 15:36:10	N/A	1
		•	8			<u>192.168.188.9</u>	78:D3:8D:AD:B6:94	0	V1.4	11	1Day 15:36:16	N/A	1
æ	Intelligent Gateway		9			<u>192.168.188.10</u>	78:D3:8D:AB:C8:5C	0	V1.4	0	1Day 15:36:11	N/A	1
-		- •	10			<u>192.168.188.11</u>	78:D3:8D:AD:B4:EC	0	V1.4	0	1Day 15:36:14	N/A	1
		•	11			<u>192.168.188.12</u>	78:D3:8D:A9:7F:80	22	V1.4	11	23:40:14	N/A	1
		• •	12			192.168.188.13	78:D3:8D:AD:99:2C	0	V1.4	0	1Day 15:36:13	N/A	1
CPU: I System CPU L	Dual Core 880MHz n Memory:2048M Jsage:5%		List Ma	nagement	Area								
					Tab Are	ea							
		Connected	d AP [12] Online A	P[12] Offine	AP[0] Users	[4] All AP 🗸		Batch Set	Refresh	Delete Reboot R	leset Firmware u	pgrade
Softwar	e Version: AC3000-SP	PI-V1.1-B2014	11072103	352 Hardy	ware Version: V1	.1 System up	time: 0Day 4:41:2						

P 3-4 Web Menu



3.2.2 Interface buttons and operation

Button	Meaning
	Applying the current configuration information.
	Setting the current configuration information.
	Adding current configuration information.
	To delete the selected rule / entries, can batch operation.
	Restart the selected AP, can batch operation.
	Open the help screen of the current function.

Description

When you click the configuration button <apply>, <setting>, <add>, <Delete> etc, or edited the current rules / entry, change the status, delete operation, you must configure and save synchronize functional area in the subsequent main menu if you want this configuration to take effect,, otherwise it will revert to the initial configuration when restart up AC3000 configuration



Chapter 4 Function Setting

4.1 Device List

Device list show the current wireless AP connected AC3000

		-	_										-
	AP Management	Select	SN	Location	Device Name	Device IP	Device MAC	Users	Software Version	Channel	Online Time	Device Group	Config
្ឋ			1			<u>192.168.188.2</u>	78:D3:8D:A9:72:A8	0	V1.4	0	1Day 15:36:08	N/A	Ż
			2			<u>192.168.188.3</u>	78:D3:8D:AE:FD:C8	0	V1.4	0	1Day 0:04:22	N/A	1
R		. •	3			192.168.188.4	78:D3:8D:AD:B6:A8	0	V1.4	0	1Day 15:36:17	N/A	1
_			4			192.168.188.5	78:D3:8D:A9:63:04	0	V1.4	0	1Day 15:36:07	N/A	1
		•	5			<u>192.168.188.6</u>	78:D3:8D:AF:BF:88	0	V3.2	7/149	2:33:23	N/A	1
			6			192.168.188.7	78:D3:8D:AD:B6:90	0	V1.4	0	1Day 15:36:15	N/A	1
×			7			<u>192.168.188.8</u>	78:D3:8D:AA:FE:94	22	V1.4	11	1Day 15:36:10	N/A	1
			8			192.168.188.9	78:D3:8D:AD:86:94	0	V1.4	11	1Day 15:36:16	N/A	1
8	Intelligent Gateway		9			192.168.188.10	78.D3.8D.AB.C8.5C	0	V1.4	0	1Day 15:36:11	N/A	2
			10			192.168.188.11	78:D3:8D:AD:B4:EC	0	V1.4	0	1Day 15:36:14	N/A	1
			11			192.168.188.12	78:D3:8D:A9:7F:80	22	V1.4	11	23:40:14	N/A	1
			12			<u>192.168.188.13</u>	78:D3:8D:AD:99:2C	0	V1.4	0	1Day 15:36:13	N/A	1
CPU.1	Dual Core souwinz												
	m Memory:2048M												
		Connected	AP [12] Online A	P[12] Offline	AP [0] Users	4 AII AP 🗸		Batch Set	Refresh D	elete Reboot R	eset Firmware u	ograde
Softwar	e Version: AC3000-SF	PI-V1.1-B20141	107210	352 Hardy	ware Version: V1	1 System up	time: 0Day 4:41:2						



Device list display the total quantity of AP connected to AC3000, the quantity of AP working properly or working improperly, also shows the quantity of wireless AP access into the AC3000 as red mark in P4-1

4.1.1 Device list setting

Through the device list icon in corresponding AP's IP address directly, can set parameters, and view the Device Status of the AP; setting the Device Network; setting the Wireless Base; setting the Wireless Advanced as P4-1-1



	Intelligen	t Wirel	ess Al	P Mana	amgemen	t Platfo	rm		智能天	线AP管理平台	at Eng	lish 💌
	AP Management	Select	SN Dev	ice Location	Device Name	Device IP	Device MAC	Users	Software Versio	n Channel (online Time	Confi
្ឋ			1	Wian Devic	e Config					*	s 0:56:11	
	Device Log		2 3	8.			wice ModelXD9800				20:50:11 5:20:11:51	1
×	Address Server		4 5	۰ 🏈			evice MAC78:D3:8D:AC	:14:E0			s 20:11:37 s 20:11:30	1
8	Intelligent Gateway		6 7	() v			Device IP192.168.230. vare NameXD9800-4T4	.2 R-V3.0-B20	140711141256		s 20:09:58 s 20:11:13	1
			8 9	۰ 🏟			are Version V3.0				s 20:11:04 s 6:55:11	1
			10 11				AC IP192.168.230. SSIDWirelessAP1.	.254 MirelessAF	2		s 0:02:10	1
c s	:PU: Dual Core 880MHz vstem Memorv:2048M		12		_		BSSID78:D3:8D:AC	:14:E0/78:D	3:8D:09:C4:10		s 0:02:37	1
С	PU Usage:7%		13		Apply						s 1:34:57	1
E			14				ss SecurityWPA2-PSK-A	ES/WPA2-P	SK-AES		s 1:35:12	1
M	lemory Usage:8%		10		Close		itput Power100%/100%				15:11	
E			17				con Interval100/100				s 1:35:02	1
		Total 13 Page	es Current The				Threshold-90/-90					
		Current Con	nected AP [2	10] Online A	P [159] Offline AP [51]	Refresh Delete	Reboot	Reset	Firmware upgrade	Detec	t AP
Softwa	re Version: AC3000-SP	I-V1.0-B201410	22090224	Hardware Ve	rsion: V1.0 System	uptime: 0Day 0:5	6:5					



Description: Tick the box next to the red dot, and click on the IP address in the same line to log into the AP's WEB setting page. Click on the icon **Apply**, it is OK to configure the functional parameters of the AP showed in red part, including viewing the selected AP status information; device network settings; wireless basic settings and wireless advanced settings. You can also refresh the whole network nodes by AP list button in the upper right corner.

4.1.2 Device status



P4-1-2 Device Status

Device status can check Device Model, Online Time, Device MAC and Device IP; Software name; software version; AC IP; SSID; BSSID; Channel; Wireless Security RF Output Power; Beacon Interval; Coverage Threshold



as Figure 4-1-2

4.1.3 Device Network

AC3000's IP address is 192.168.10.1. In Device Network option, AC3000 can assign IP address for connected wireless AP. The default IP setting is DHCP, mean wireless AP can get IP address from AC3000 in dynamic way; Then IP address mean wireless AP's IP address. Subnet Mask mean Wireless AP's Subnet Mask.

Wlan De	evice Config		*
8	Device Status	IP Setting DHCP 💌	
۲	Device Network	IP Address 192 . 168 . 230 . 2 Subnet Mask 255 . 255 . 0	
Ŷ	Wireless Basic		
٠	Wireless Advanced		
	Apply Close		

4-1-3

4.1.4 Wireless Basic Setting

Wireless basic setting show wireless status, like enable or disable(enabled in default); broadcast SSID is enable or disable; Virtual AP is turned on or off; Wireless Security turn open or not.





P 4-1-4 Wireless Basic Info

4.1.5 Wireless Advanced

Wireless advanced setting mainly for AP's wireless parameters, including Device List; Mode; Channel; Client isolation; Coverage Threshold; Max Station.

Wian D	evice Config			*
8	Device Status	2.4G Wlan Device 1	×	
a		802.11B/G/N 20MHz	V	
190	Device Network	7 [2.442 GHz] 💌		
P	Wireless Basic	Disable 🔽		
-	Wireless Advanced	2346	(256-2346)	
		2347	(1-2347)	
		100	(50-1024)ms	
	Apply	Enable 💌		
		Disable 💌		
	Close	6 💌		
	_	-90	(-65dBm~-90dBm)	
		50	(1-50 0:No limit)	

P 4-1-5 Wireless Advanced Setting

Device List: Display the AC controller is manage 2.4G wireless devices AP

Mode: This mode is used to set up the mode of Wireless Access Point, recommended 11b / g / n 20MHz mode.



Channels: channel range, FCC default is 1-11, ETST default 1-13

Client Isolation: The option is to make the host cannot communicate with each other on a different SSID's if this option enable.

Coverage threshold: You can set the threshold to achieve wireless signal roaming

Max Station: mean number of end users can access into wireless AP. (*The default is 32 mean 32 end users can access in this wireless AP, 0 mean unlimited*)

4.A Device Group

Create group of APs with centralized management policy: SSID, authentication, VLAN, encryption ...

Click New button on right bottom to create Wlan Group; next click Apply for approved policy.

		Select SN	Wlan Grou	ip Name	Contains AP	Config
ដ			Nau			
			Wireless Basic	Device List Wian Device 1 * Main AP Configuration		
			Wireless Advanced	Status Enable *	Brodcast SSID Enable Vianid 0 (0-4094)	
×\$	Address Server		Wian Group Name	Wireless SecurityOpen System Virtual AP Configuration1	Config	
8	Intelligent Gateway		GROOP_NAME I	Status Disable SSIC WLAN1 Wreless SecurityOpen System	Brodcast SSID Enable Vianid 0 (0-4094) Config	
CPU: Syste				Virtual AP Configuration2 Status Disable • SSID WLAN2	Brodcast SSID Enable Vianidi 0. (0-4094)	
Memo			Apply Close	Wreless Security Open System Virtual AP Configuration3 Status Disable •	Config	
			4		Ne	w Delete

P 4-A1 Device Group

Adding AP into Group through icon ito add selected APs.

1	Intelligent \	Nirele	ss AP Mana	gement Platform	智能无线AP管理平台	
						English
ដ		Selec	t SN 1	Wian Group Name 分组2	Contains AP	Config
×	Address Server					





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P 4-A3 Adding AP into Group

4.2 Device Log

Device Log show AP's record, such as on line recording, offline recording, device configuration recording.



	AP Management	System Log View	
ដ	Device List	197/00/101 01:05:01 Device192.166.188.6 MAC[76:03:80/AF:DF:83] Wireless transmission power change 197/00/101 01:05:02 Device192.168.188.6 MAC[76:03:80/AF:DF:88] Wireless transmission power change 197/00/101 01:05:03 Device192.168.188.6 MAC[78:03:80/AF:DF:88] Configuring wireless network parameters	^
ß	Device Group	1970/01/01 01:05:25 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Complete the configuration wireless network parameters 1970/01/01 01:05:25 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Configuring Ethernet network parameters 1970/01/01 01:05:25 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Complete the configuration Ethernet network parameters 1970/01/01 01:05:25 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Complete the configuration Ethernet network parameters	
Ø	Device Log	1970/01/01 01:05:26 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Configuring wireless network parameters 1970/01/01 01:05:26 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Configuring wireless network parameters 1970/01/01 01:05:48 Device192:168:188 6 MAC[78:D3:8D:AF:BF:88] Configuring wireless network parameters	
×	Address Server	197001/01 01:05:49 Device192:168:188 6 MAC(78:03:80 AF BF:88) Completing Ethermet network parameters 197001/01 01:05:49 Device192:168:188 6 MAC(78:03:80 AF BF:88) Completing device Internet network parameters 197001/01 01:28:22 Device192:168:188 6 MAC(78:03:80 AF BF:88) Upgrading device Intermate 197001/01 01:29:21 Device192:168:188 6 MAC(78:03:80 AF BF:88) The surveise of a orthware uncreade environment environment is about to restart	
&	Intelligent Gateway	1970/01/01 01:46:52 Device192:168:188.6 MAC[78:D3:8DAF BF:88] offline 1970/01/01 01:46:53 Device192:168:188.6 MAC[78:D3:8DAF BF:88] offline 1970/01/01 02:02:17 Device192:168:188.6 MAC[78:D3:8DAF BF:88] offline	
CPU: Syster CPU I	Dual Core 880MHz m Memory:2048M Jsage:5% ry Usage:9%	197001101 02:05:37 Device192:168 188 6 MAC[78:03:80 AF BF:88] online 197001101 02:05:04 Device192:168 188 6 MAC[78:03:80 AF BF:88] Wireless transmission power change 197001101 02:05:04 Device192:168 188 6 MAC[78:03:80 AF BF:88] Wireless transmission power change 197001101 02:05:05 Device192:168 188 6 MAC[78:03:80 AF BF:88] Configuring wireless network parameters 197001101 02:05:28 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration wireless network parameters 197001101 02:05:29 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration moreless network parameters 197001101 02:05:29 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration network parameters 197001101 02:05:29 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration network parameters 197001101 02:05:29 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration power change 197001101 02:05:29 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration power change 197001101 02:05:29 Device192:168 188 6 MAC[78:03:80 AF BF:88] Complete the configuration wireless network parameters 197001101 02:05:51 Device192:168 188 253 MAC[78:03:80 AF BF:88] Complete the configuration wireless network parameters 197001101 02:05:52 Device192:168 188 253 MAC[78:03:80 AF BF:88] Complete the configuration twireless network parameters <th>≻ Clear</th>	≻ Clear
Softwar	e Version: AC3000-SP	1-V1.1-B20141107210352 Hardware Version: V1.1 System uptime: 0Day 4:15:48	

P4-2 Device Log

4.3 Address Server

Through Address Server, to set server IP address, subnet mask; Server address Pool, main to assign IP address to the connected wireless AP, no need to specify the IP address for wireless AP manually when operation.

AP Management	AP Address Server			
Charles List		Server IP Address 192 168	230 254	
		Server Subnet 255 255	255 0	
Device Log		Server Address Pool 192 168	230 2 - 192 168 230 222	
		Lease Time 300	Range:(300-864000)s	
Address Server				
·	AP address information list			Refresh Apply
Q Intelligent Gateway	AP Device Name	IP. Address	MAC Address	Lease Time
	PW300	192 168 230 88	78.d3.8d.ad.b4.cc	0 D 00:04:43
	PW300	192.168.230.93	78.d3.8d.ad.b4.78	0 D 00:04:46
	XD9800	192.168.230.104	78:d3:8d:08:fc:e8	0 D 00:02:46
	XD9610S	192.168.230.110	78:d3:8d.ab.19:5c	0 D 00:04:04
CPU: Dual Core 880MHz	PW300	192.168.230.132	78 d3 8d ad b4 74	0 D 00:04:45
System Memory:2048M	PW300	192.168.230.148	78:d3:8d:a9:ed:00	0 D 00:04:46
CPU Usage:7%	XD9800	192.168.230.159	78:d3:8d:08:ef:10	0 D 00:04:44
	PW300	192.168.230.184	78 d3 8d ad b4 60	0 D 00:04:46
Memory Usage:8%	PW300	192.168.230.188	78.d3.8d.ad.b4.8c	0 D 00:04:45
	XD9300	192.168.230.202	78.d3.8d.ab.94.08	0 D 00:04:44
	XD9508S	192.168.230.24	78:d3:8d aa:d2:10	0 D 00:04:45
	PW300	192 168 230 25	78 d3 8d ab 5c 0c	0 D 00:04:04

P4-3 Address Server

Server IP Address: modify the default AP address server's IP address; (default is 192.168.188.1)

Server Subnet: Modify AC controller's subnet; 255.255.255.0 in default

Server Address Pool: When wireless AP connected with this address server, then address server will assign IP address for wireless AP. (The default IP address pool is 192.168.188.2-192.168.188.254).



4.4 Intelligent Gateway

4.4.1 WAN Settings

Click Intelligent Gateway will automatically jump to the WAN settings as 4-4-1

	AP Management		C 12		Declar Name	Dealers ID	Destabilitie	Theorem	C. Strand Market	Channel	Orting Theory	Bulles Course	Cont
0			1	Location	Device Marine	192.168.188.2	78 D3 8D A9 72 A8	0	.V1.4	0	1Day 15:36:08	N/A	1
សេរ			2			192.168.188.3	78 D3 8D AE FD C8	0	V1.4	0	1Day 0:04:22	N/A	1
a			3			192.168.188.4	78 D3 8D AD 86 A8	0	V1.4	0	1Day 15:36:17	N/A	
250	1 Service Services		4			192.168.188.5	78 D3 8D A9 63 04	0	V1.4	0	1Day 15:36:07	N/A	
12			5			192.168.188.6	78 03 8D AF BF 88	0	V3.2	7/149	2:33:23	N/A	
			6			192.168.188.7	78 D3 8D AD 86 90	0	V1.4	0	1Day 15:36:15	N/A	
×8			7			192.168.188.8	78 D3 80 AAFE 94	22	V1.4	11	1Day 15:36:10	N/A	
			8			192.168.188.9	78 D3 8D AD 86 94	0	V1.4	11	1Day 15:36:16	N/A	
æ			9			192,168,188,10	78 D3 8D AB C8.5C	0	V1.4	0	1Day 15:36:11	N/A	ø
			10			192.168.188.11	78 D3 8D AD 84 EC	0	V1.4	D	1Day 15:36:14	N/A	
		. •	11			192.168.188.12	78 D3 8D A9 7F 80	22	V1.4	11	23.40.14	N/A	
			12			192.168.188.13	78 D3 8D AD 99 2C	0	V1.4	0	1Day 15:36:13	N/A	
													-
-													
		Connected	AP [12	Online A	P[12] Office	AP [0] Users	ALAP V		Batch Set	Refresh	helette Reboot F	Resot Fernwares	upgrade
		-								100			



P4-4-1 WAN Setting

When select to intelligent gateway, AC3000 will have a router function, can work as a main router with Gigabit WAN/LAN port. It support Dynamic IP, Static IP; PPPOE; PPTP.

Dynamic IP: WAN interface obtains IP and DNS information through DHCP mode.

PPPOE(ADSL): WAN interface obtains IP and DNS information via PPPOE dial-up mode.



Static IP: Set IP and DNS information for WAN interface manual

PPTP: WAN interface obtains IP and DNS information via PPTP mode

MAC Clone: Specifies the WAN interface MAC, by clicking [Search MAC Address] button, and then will pop up a connected device's MAC, select the MAC desired to clone. You can manually specify the MAC

Enable IGMP Proxy: Enables IGMP proxy, this feature can be forwarded IGMP data from WAN to the LAN

Enable Ping Address on WAN: This feature allows outer net to ping WAN

Enable Web Server Address on WAN port: Enable this feature, allows to manage AC3000 from outer net via a specified remote management port

4.4.2 LAN Settings

AP Management	Status	Network	Firewall	Management		🕐 Help
LAN Settings	WAN Settings					English 🔽
LAN IP Setting						
					IP Address 192 . 168 . 10 . 1	
					Subnet Mask 255 255 255 0	
DHCP Server Settin						
					DHCP Server • Enable • Disable	
					DHCP Client IP 192 . 168 . 10 . 50 . 192 . 168 . 10 . 254	
					DHCP Lease Time 86400 Range:(300-864000)s	
						Apply
Static Bind IP-I	MAC List				Delete Local IP-MAC List	dd Refresh
					192,168,10	
					192.168.10.50/78:D3:8D:AD:75:4D	
					192.168.10.54/00:1E:37:18:C7:A1	
					192.168.10.57/98:4B:E1:42:E1:C5	
					192.168.10.92/78:D3:8D:AB:61:89 🖁	

P4-4-2 LAN Settings

LAN IP Setting: Set IP address for LAN

Subnet mask: Set Subnet mask for LAN

DHCP Server: DHCP server enable mean it will assign IP address for users.

DHCP Client IP: DHCP Client IP mean the IP address range assigned by DHCP Server.

DHCP Lease Time: The networking device get IP lease time from DHCP server.



4.5 Device Status

4.5.1 Basic info

Show AC3000's firmware version, hardware version, system uptime.

AP Management	Status	Network	Firewall	Management	🖉 Help
Basic Info LAN	WAN				English 🗸
Basic Info					

P4-5-1 Basic Info

4.5.2 LAN Status

Show AC3000's LAN IP, DHCP server status and MAC address

AP Management	Status	Network	Firewall	Management				0	Help
Basic Info LAN	WAN							English	V
AN Configuration									
				d IP DHCP Client					

P4-5-2 LAN Status

Assigned IP: Click **DHCP Client** button showing detail of Client list include: Host name (name of device), IP Address, MAC, Lease.

4.5.3 WAN Status

It show AC3000's WAN status, Connect Type, WAN IP, Subnet Mask, Gateway IP, DNS and MAC info.



AP Management	Status	Network	Firewall	Management	🕐 Help
Basic Info LAN	WAN				English 🗸
WAN Configuration					
				atus PPPOE- Connected	
				ypePPPOE Connection	
				INS202.96.128.166 202.96.134.133	

P4-5-3 WAN Status

4.6 Firewall

4.6.1 IP/Port Filtering

AP Management	Status Network	Firewall Managemen	t				🕐 Help	p
IP/Port Filtering	MAC Filtering URI	L Filtering Port Forwarding	DMZ Settings				English	~
IP/Port Filtering								
		IP/Port Filtering Close	~					
		IP Range 192 . 168	. 123	192 . 168 . 123 .				
		Protoco TCP+UDP	~					
		Port Range	(Range 1-655	i35)				
		Mark						
						Max rule counts : 32 Add	Delete Cancel Ap	oply
IP Range								

P4-6-1 IP/Port Filtering

IP/Port Filtering: IP/Port forwarding enable, router will limited the data forwarding according to the filtering rule. If the filtering rule is [refuse], then the router will refuse to forward the data in accordance with filtering rule.; If the filtering rule is [allow], the router will forward the data in accordance with filtering rule.

IP Range: Set IP address range

Protocol: Set filtering rule protocol

Port Range: Set filtering port range

Mark: A simple description of the entry rules, for user's easy management;

4.6.2 MAC Filtering



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]	AP Management	Status	Network	Firewall	Management							0	Help
	IP/Port Filtering	MAC Filterin	19 URL F	iltering	Port Forwarding	DMZ Settings						English	~
N	AC Filtering												
					Itering Close	~							
I					MAC -		Scan M	AC					
					Mark								
										Max rule counts : 3	2 Add Dele	te Cancel	Apply
N													

P 4-6-2 MAC Filtering

MAC Filtering: Enabling Mac filtering, router will restrict data forwarding based on the selected filtering rules; When selected Close, router will decline the pointed incoming data; When selected as Open, then router will allow the pointed incoming rules;

Mac address: Set up rules in mac address, users can click Searching Mac Address from the clients in routers, or can set up the mac address manually;

Mark: A simple description of the entry rules, for user's easier management;

4.6.3 URL Filtering



P 4-6-3 URL Filtering

URL Filtering: Enabling URL filtering, router will restrict access to the pointed URL;

URL address: Set up the declined URL address

4.6.4 Port Forwarding







Port forwarding: Port forwarding is to forward data from one port to another port, enabling external users have access to an internal private IP in LAN, from an external triggered NAT router ;

Rule Type: Set up rule type, which have specific port number;

Rule name: Port forwarding rule name

LAN IP: IP of the port forwarding

External port: External port number of port forwarding

Internal port: Internal port number of port forwarding

Protocol: Protocol used for port forwarding

4.6.5 DMZ Settings

AP Management	Status N	etwork Firewa	Management			🕐 Help
IP/Port Filtering	MAC Filtering	URL Filtering	Port Forwarding	DMZ Settings	Eng	ish 🗸
DMZ Setting						
			Z Setting Close	~		
						Apply

P 4-6-5 DMZ Settings

DMZ: DMZ is short for demilitarized zone; It's a compartment between security zone and non-security zone, in order to solve the problem of external network can not access into internal server after firewall installation; This DMZ zone is a small network zone between external and internal network; While in this small zone, users usually place some open server, like web server, FTP server, or forum; DMZ will protect internal network more efficiently, because this network allocation is another obstacle for hackers, compared to normal firewall;

IP LAN IP: IP address of DMZ host

4.7 Device management

4.7.1 System management



P 4-7-1 System management



Backup: Save the configuration files to your computer

Restore: Using the saved configuration file recovery configuration

Restore default: Restore the factory default settings, please press this button

Reboot: Reboot the system

4.7.2 Smart QoS

AP Manag	jement	Status	Network	Firewall	Management					0	Help
System	DDNS	Smart G	loS User	Logs	Upgrade Firmware	System Time				English	۲
Qos Basic S	ettings										
					Status 💿 Enable	O Disable					
					Upload 50000	Range (30~ 102400)K					
					wnioad 50000	Range (30~ 102400)K					_
											Apply
Qos rule sett	ing										
			0		Range 192 168 10	~ 192 168 1	0				
				MAC A	ddress	S	an MAC				
					Shared						
					C Exclusive	10					
					Download 0	Kbps					
					Mark	and the second s					
	_	_	_	_		(Doubk	-click the selected items to	modify the settings, QoS allows you	to add up to 8 rules) Add Dele	te Modify	Cancel
									Mark		
0000000000											CALL IN A

P 4-7-2 Smart QoS

Status: Enable or Disable QoS function

Upload: Set up total uploading bandwidth

Download: Set up total downloading bandwidth

IP Address Range: Set up IP range of bandwidth

MAC address: Set up bandwidth control by mac address, user can choose it from Scan MAC, or setup by manual.

Mode: QoS mode settings, shared mode means under the QoS rules, the main PC within all IP range can share the specified bandwidth; Exclusive mode means single main PC can share the specified bandwidth;

Max bandwidth: Max bandwidth under QoS rules.

Mark: A simple description of the entry rules, for user's easier management;

4.7.3 User management

AP Management Status Network Firewall Management	🕐 Help
System QoS User Logs Upgrade Firmware System Time	English V
User Settings	
User Name admin	
Password •••••	
Confirm Password	
	Apply



P 4-7-3 User

User Name: Reset new log-in user name

Password: Reset new log-in password

Confirm Password: Comparison to new password, to confirm user input password correctly in two times;

4.7.4 Device Logs

AP Management Status Network Firewall Management	🕐 Help	
System QoS User Logs Upgrade Firmware System Time	English 🗸	2
System Logs		
Status ● Enable ● Disable ■ Remote Log Service		
	Арр	ły
System Log View		

P 4-7-4 Logs

Status: Enable or Disable to show system log

Remote Log Service: To decide whether send System log into some pointed remote server synchronously;

4.7.5 Upgrade Firmware

This feature allows the device firmware upgrade.

Noted: Upgrading software may cause system outage, In the process of upgrading the firmware, do not power off, otherwise it may damage the AC controller!



P 4-7-5 Upgrade Firmware



4.7.7 System Time

AP Manag	jement	Status	Netw	ork Firewall	Management							0	Help
System	QoS	User	Logs	Upgrade Firmware	System Time							English	~
System Time	;												
				System Time1970-01	-01 04:33:10		Synchronization	n with the host					
				Status 🔵 Ena	ible 🕻	Disable							
				NTP Server time.ni	iLgov 🗸								
			Custon	n NTP server									
				Time Zone (GMT+	08:00)Beijing, Chongq	ing, Re-Hong k	Kong, Urumqi	~					
				After de	vice running <mark>1 🗸</mark> d	ays, Automati	c optimization sy	ystem					
													Apply

P 4-7-6 System Time

Synchronization with the host: Synchronization time with connected PC and router

Status: Enable or Disable NTP

NTP Server: Select the server time synchronization

Custom NTP Server: Setting user-defined synchronization server IP address

Time Zone: Setting the router's time zone

Appendix A Product SPEC

ltem	Parameter				
Standard Protocol	IEEE 802.3 & IEEE 802.3u				
QTY of manageable AP	Default: 200pcs, Max: 252pcs				
СРИ	MediaTek, 880MHz (dual-core)				
FLASH	128Mb				
DDR3	DDR3 2048Mb				
Power Consumption	< 5W				
Interface LAN port	4 x 10/100M/1000M RJ45 port (Auto MDI/MDIX)				



	LAN/WAN port	1 x 10/100M/1000M LAN/WAN port,Default is LAN port, WAN port when open WAN mode					
LED	Power	Adapter					
Indicator	Run	System status					
Demensi	on (L x W x H)	440mm x200 mm x 45mm					
C	ooling	Nature cooling + Fan cooling					
		Working temperature: 0ºC∼40ºC					
Working environment		Storage temperature: -40ºC \sim 70ºC					
		Working Humanity: 10% \sim 90%RH (No condensation)					
		Storage Humanity: 5% \sim 90%RH (No condensation)					
F	Power	100-240V~ 50/60Hz					

