alhua TECHNOLOGY

EAC Series Wireless Access Controller

Quick Start Guide

V1.0.0

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Foreword

General

This manual introduces the installation, functions and operations of the Inceiling Mount Access Point (hereinafter referred to as "the AP"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
© <u>_™</u> TIPS	Provides methods to help you solve a problem or save time.
	Provides additional information as a supplement to the text.
About the Mar	

about the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.

- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Transportation Requirements



Transport the device under allowed humidity and temperature conditions. Storage Requirements



Store the device under allowed humidity and temperature conditions.

Installation Requirements

• Do not connect the power adapter to the device while the adapter is powered on.

NOTE

Please check the IP address of default port above .

2.2 WAN Port Settings

Select Network Configure > WAN Configure, select the network port to configure, and then configure the information of the external network, as shown in the following image:



Internet access: (choose how to access the Internet according to the actual situation) ADSL/PPPOE: Fill in bandwidth account numbers and passwords (this type of Internet access is recommended)

Static IP: Fill in IP, mask, gateway and DNS provided by the operator

DHCP: Direct access to lines provided by the operator to obtain IP

Line interruption check: detect whether the line is connected to the network, if the line is not accessible or the linequality is poor, the packet is serious, the route is automatically processed, does not load to the Line. It is recommended to enable line interrupt detection.

2.3 Physical Port Division

This feature supports separate and merge port divisions. When the main road is recommended to use the merge port division, that is, open All LAN ports are one LAN1 port function. If it is bypass mode, it is recommended to turn this feature off. Select the corresponding according to the actual situation Physical port division type, check "Merge all LAN ports as one intranet port (LAN1)."

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After the definition of the physical port feature is modified, the route needs to be reconfigured. (Note: The version of the X86 platform does not support Ethernet port merge).

Ŧ	System Status	\sim	Si Physicel part definition		
e	Network Configure	^			
	WAN Configure			· · · · · · · · · · · · · · · · · · ·	LANI LANZ LANZ LANA MANY
	LANDHOP			- CAN - THAN	
	Physical Port Definition				
	Multi-line Oliversion Rules				LANT LANC LAND YIMANZ MANY
	Static Route			SLAN - ZMAN	
	DONS				Mergel His Lant
	NAT/Port Forwarding				
53	Flow Control Policy	\checkmark		2LAN - 2MAN	
$\gamma_{\tilde{0}}$	AC Management	v			
۲	Auth Internet Access	v			
11	Behavior Control	\sim		0 TAN - 2000	
°3	Object Management	v			
σ	Safety Protection	v		Advance	
1	Log Record	v		☑ Merge all LAN ports into LAN	· //
Ð	VEN	v			
٠	Gevice Meintenance	~		Save Note: After the physical	i port lisature definition is modified, the router needs to be reconfigured.

03 AC Management

3.1 AP Device List

The AC controller feature allows centralized management and release configuration of the AP devices connected to it, with parameters including Line channels, SSIDs, transmit power, encryption modes and keys, AP coverage thresholds, number of access users, and VLAN ID, as follows as shown in the figure:

۲	System Status	v	ы	Plist											Online A	P quantity/ Total AP.:	1/2, AC service st	atus: [online]
	Network Configure	v	E	estart.	NP Reset.	P Delete AP	Country Code Ap	ply configuration template	Retract	Alc	device 🔻 device mo	del file 🔹 Search co	odfore	Device IP ·	search			
83	Flow Control Policy	~	8	5N	AP neme	Device IP	MAC address	\$5(0(2,40/3.80)	User	Stetus	Channel(2,40/ 5.80)	Channel Analysis	Power	AP model	AP version	Uptime	AP remarks	Config
	4C Management	~						DAMUA_Windess 🚔		-	Auto	2.4G 🕸	100%	0				
~	10.00		Ľ.		un AP	196.196.10.3		DAHUA_Wineess_SG 🔒	DAHUA_Winiess_SQ 🚔		Auto	5.8G 🌾	100%	UNEAPORTOL .				
	AP Los							DAHUA_Windows 📽			Auto[4]	2.4G 🕸	100%					
	AP Compare template		۲	2	WY AP	192,188,10,2	have the provide	DAHUA_Witeless 📽	14	celane	Auto[H]	5.80 🕸	100%	CH-EAP8216-III	V1.0.0-8-0(2)(2)(2)(2)(6)(6)(7)(8)	0.0.08 up 0 days		~
	AP Upgrade																	
	Wheless Roaming																	
	Auto Channel Select																	
۲	Auth Internet Access	\sim																
田	Behavior Control	\sim																
2	Object Management	~																
σ	Safety Protection	~																
6	Log Record	~																
e	VPN	v																
۰	Device Maintenance	~																

\square

The default configuration issued by AP is achieved by establishing the template, with one template for each model. Only in the AC list should The template of the corresponding model will be released normally. An AP model can also create multiple templates. Apply to the same floor or geography of the same model A scene with a different location.

3.2 AP Device Configuration

AP device configuration, is a single AP or multiple APs in the list of parameter modifications, including the wireless state on or off, The modification of the channel, the modification of the wireless bandwidth mode, the modification of the AP coverage threshold, the modification of the transmit power, and the marking of the device location.





3.3 AP Upgrade Management

AP Upgrade Management allows you to upload the AP version that needs to be upgraded to the device, and then select the AP list in full or selected to upgrade, while also supporting the AP remote upgrade.

3	System Status	\sim	7.16	499.	ade									
e	Network Configure	~								Rest AP ()	Device model fib .	Refresh	Batch local upgrade	Upload mirror
	Rose Control Bolics			5%	AP came		WAC	Status	Device model	Current versio	•	· · ·	ipload file and Local upgra	de
-				1	MY AP	102.168.10.3	10000-010	Office	DH-EAM215-C	-			-	
4	AC Management		0	2	MY AP	192.198.10.2	1010(0040(041)	Online	DH-EAP(215-W	V1.0.0-Build20221210	101700		-	
	APLie													
	AP Configure Template													
	AP Upgrade													
	Winiess Roaming													
	Auto Channel Select													
×	Auth Internet Access	v												
23	Bahavior Control	\sim												
2	Object Management	\sim												
σ	Safety Protection	\sim												
æ	Log Record	\sim												
₽	VPN	~												
۰	Device Maintanence	\sim												

- Strictly comply with the local electrical safety code and standards.
- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not leave outdoor models of the device hanging in the air or facing outwards when installing onto poles that are on top of buildings.

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- Do not place the device in a place exposed to sunlight or near heat sources.
- Put the device in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
 Do not connect the device to two or more kinds of power supplies, to
- avoid damage to the device.
 The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective
- earthing.
 The device must be grounded by a copper wire with a cross-sectional area of 2.5 mm² and a ground resistance no more than 4 Ω.
- Voltage stabilizer and lightning surge protector are optional depending on the actual power supply on site and the ambient environment.
- To ensure heat dissipation, the gap between the device and the surrounding area should not be less than 10 cm on the sides and 10 cm on top of the device.
- When installing the device, make sure that the power plug and appliance coupler can be easily reached to cut off power.
- Outdoor models of the device must be securely installed on poles or brackets that are perpendicular to the ground. Make sure the entire surface of the device and all its related components are covered with anti-oxidation coating (such as rust preventive paint), and that the installation site and height of the device meet the requirements of the plan.
- Install outdoor models of the device on top of buildings where there is little to no direct sunlight to avoid the device becoming overheated. Make sure to take all necessary measures to protect the device.
- Face the side with the Ethernet port downwards, and arrange the wires in a downward direction when installing outdoor models of the device.

Operation Requirements

- Do not disassemble the device without professional instruction.
- Operate the device within the rated range of power input and output.
- Make sure that the power supply is correct before running the device.
- When removing the cable device first to avoid personal injury.
- Do not unplug the power cord on the side of the device when the adapter is powered on.

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- Use the device under allowed humidity and temperature conditions.
- Ose the device under allowed humany and temperature conditions.
 This is a class B product. In a domestic environment this may cause radio interference in which case you may be required to take adequate

measures.

Maintenance Requirements

- Do not disassemble it unless necessary.
- Power off the device before maintenance.
- Mark key components on the maintenance circuit diagram with warning signs.

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02 Route Settings

2.1 Logging in to Device

Connect Lan port of device to PC, login in via 192.168.10.110, ID/Password: admin, as below:

	Device into			00 00	-						
	Interface Status										
	LAN IP Float		Interface			7.04	Link mode	IP address	MAC address	Receive speed	Send spe
	Network Configure	~	WANT			WAN port Office	Disconnect		CONTRACTOR N	0.00 K5/5	0.00 K54
			LANK			LAN port	Disconnect		Merged into L	AN1	
53	Flow Control Palicy	~	LANG			LAN port	Decorrect		Merged into L	AN1	
4	AC Management	~	LAND			LAN port	Disconnect		Merged into L	and .	
30	Auth Internet Access	\sim	LANT			LAN port	100AVFull duples.	192.198.13.110	100210-002	1.00 KB/8	0.82 KB4
8	Behavior Control	\sim	Device besic informatio								
°ð	Object Management	\sim	Device ID	COMPLET, NO	Users 256 , Max AP can be	managed 204					
σ	Safety Protection	\sim	littine	Od 35 up 8 days							
Ð	Log Record	\sim	Memory stillpation.	05	30.40MB/430.19MB						
÷	VPN	\sim	OPU attigation	1%							
٠	Device Heintenance	\sim	Connection monitoring	0%	212/200000						
			Online users	1uses							
			Fitnware version	SAME VALUE AND A	ACCOUNT OF A						

04 Authentications

4.1 Enable Authentication to the Internet

Enable authentication Online, means that only, PPPOE dial-up authentication, WEB password authentication, IP authentication, MAC authentication.Users can only access the Internet, for example, allow the user PPPOE dial-up Internet access under LAN1, scertified Internet access, "Certification switch", select LAN1, enablethe authentication network switch, check the type of "PPPOE dial" that allows Internet access, click Save.



4.2 PPPOE Authentications

Users who use PPPOE dial-up Internet access need to enable PPPOE services at the intranet, such as PPPOE services on LAN1. Select Auth Internet Access > PPPOE Auth, and then select the app.

Ψ.	System Sietus	\sim	PPPoE Service						
e	Network Configure	~	PITEL Server	Mat Advance option	Access status				
8	Now Control Policy	~	locate intranet dial-up users.	Control Ca	k to enable				
5	AC Monagement	\sim							
۲	Auth Internet Access	^	Expired Users cannot dail	EnderLoba to deale					
	Auth Configure		Disable the same MAC address chall	DestetCa	A to enable 💡 When Drober	5, the intranet PPPoE claims request t	tr the same MAC address will be rejected		
	PPPuE Auto				_				
	Paral Auto		Paseword-free auth:	DestretCh	x to enable 💡 Crobie the pa	esword-free authentication function, an	y account and password can be claied		
	Radue Billing		Assign DNS eccording to 'depart	treatlevel (in order to assign	different DNS to different user	s, when the 'department'level' when	the user belongs is configured DNS, PPPoE service will d	inectly use the DNS configured here and assign DNS to	users).
							A1 T.A.		
	Auth User		AM Detele V Note 1	re coes are executed in consist	on op o solar, se, op sae ve	htaga pikoliy is DNS-assignments. Ca	in te moved by a warrow to adjust the sequence, while adjust	fan .	
	Auto User Status		And Deele V Note 1	Bps	Name	Main DNS	Attempts DNG	Operation	
	Aufr User Status Department Level Definit	ton	Add Conte V Note: 1	it de at desire it dis i	Name	Main DNS PPTVE advance configuration is 1	In the moved by E IV annu to adjust the sequence. If this 200 Attentio DNS of actived ymt, pinose 200	Operation	
2	Auth User Auth User Status Department Level Definit Behavior Control	5 >	And Control Vinder 7	iyos	Ners	Nain DNS Main DNS PPPuE advance configuration is n	nbe novel by a wanter to adjust the sequence. While, 3620 Attention DNS of added yet, please 362	Operation	
~ E	Aufr User Aufr User Status Department Level Definit Behavior Control Object Management	5 × ×	AN CHER VINE T	304	Norse	Nais 2NS Nais 2NS PPPuE advance configuration is n	nternoed by T wave U adjud Te solution; Thy 20 Atomsko DKS et activity of, proce Add	Operation	
0 %	Auth User Satus Department Level Defini Behavior Control Object Menagement Bathly Protection	s < < ^g	AN Code Vindent	jite Anno 14 contract of the second	Norm	http://picki.com/configuration.com/ Main DNS PPProE advance configuration is in	nte novel by T want balled the sequence, The LEO Atomic DKS et allow yet, prove Add	Question	
0 % E	Auth User Auth User Status Department Level Defeit Behavior Control Object Monogoment Safely Protection Log Record	< < < ³	Ant Create V North	jos	Nara	htep pixtly = DKS adjunctis. Ca Main DKS PPPVE advance configuration is i	nie moet ly 4 7 anv la aljal fe segence, 14 alja. Ko Alemata Del al aliasi ye, prove Add	Question	
	Auft User Auft User Status Department Level Defeit Behavior Control Object Monagorourt Solity Protection Log Record VPN	< < < < ³	Anti Contro V North	in un ar conun a con	Nara	Magit polity is DNS analyseeth. Ca Main DNS PPPVE advance configuration is in PPPVE advance configuration is in	cie tono μ μ Ψ μπνεί adjuči te engenes Ψης μξο Abrevis Ots et altent yet, proce ΔΔ	Operative	

05 Configure shunt rules

5.1 Configuring Shunt Rules

A single line can not configure a shunt rule; (Network configuration) Multi-line shunt rule, point Hit Add creates a policy shunt rule, selects the shunt mode, selects which apps the line hosts, and click OK after checking.

œ١.	System Status	\sim	S MURS-INV DEVERSION FUNDS							
e	Network Configure	^	Add Delete Note: The diversion in	ies are executed in tame from	r top to boltom. Can be operated by 1	arrow to adjust the s	ingunas Tap 🛣 Katan			
	WAN Configure		E EN Source address	Time	Destination port		Destination IP	Application type	Policy	Operat
	LANDHOP				T	sere is no diversion rule	ciefined yet, piezze Add			
	Physical Port Definition									
	Multi-line Diversion Rule			Policy shurt rule			×			
	Satic Roue DDNS NATIPOT Foreasting Fore Centrol Policy AC Nenegement Acth Internet Access Behavior Control Object Nenegement Selety Protection	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		Source address: Time, Destination Pr. Application type. Sharit model (#: Source) Une sectore: Une () WAN1	Acording tolk Address () User) (In ARY • ARY • ARY • ARY • ARY • ARY • shart · shart · Source + Destination address · Control of the shart · Source + Destination address · Source - Source - So	n) Dopatrient 4 Add 4 Add 4 Add 4 Add 4 Add 5 Add 7	Purt policy hurt			
8	Log Record	\sim		9 Seales share downli	n in connection session unit					
U	1.PN	\sim					1			
۰	Device Maintenance	v				Continu	Gance			

NOTE

Multi-line load balancing is achieved by shunt rules.

5.2 Configure Bandwidth Speed Limit Policy

Description: Routing has intelligent flow control function, configuration speed limit strategy, the purpose is to prevent the endonet machine poisoning, or advertising uncontrolled Upload, usually the speed limit up to 100-300KB, the downlink speed limit can be properly liberalized, such as the speed limit of 1000-3000, usually recommended The speed limit does not exceed one-third of the total bandwidth.

8 6	Bystem Bietus Network Contigure Flow Control Policy	× × ~	Sendwidth control	dâres Tree There is no polity bandeldh con	Bandedd Infeld Nr ole chfreid yr Franc Agg
	Shari Hok Caleb				-
	Free Flow Centrol			R Exce 0 g Osce	×
е В	AC Hanagement Auth Internet Access	š		Source address: According to () Address () User () Level () Department ANY • • • • Add	
团	Behavior Control	v		Time: ANY • • 4.00 Upsheam limit: 204.0410	
°Ъ	Object Haragement	\sim		Downsheam limit Queuers	
Ο	Safety Protection	\sim			
3	Log Record	\sim			
æ	17N	\sim	8		
۰	Device Maintenance	v		Tipe: Olds if itom to edite bandwidth Comirm Cano	

For example: a 50M peer fiber, then each machine speed limit up 100-300KB, down1000-3000 KB can be, advanced recommendation configuration P2P The limit allows 70% of the allowed for the upstream and 70% allowed for the downstream. As shown above (ANY means arbitrary, that is, anyone, any time)

06 Safety

6.1 End-network Anomaly Detection

Turn on DHCP detection to detect the presence of other DHCP servers in the intranet; Turn on Loop Detection to check the contentford for loops (for intranet fault positioning).

8	System Status	\sim	Mintranet anomaly detection	
	Network Configure	\sim	DHCP bellection: Disablest, slick to enable	Q detect whether there are other DHCP servers in the intranet.
63	Flow Centrol Policy	\sim		
- 16	AC Management	\sim	Loop delection: Disabled, click to enable	\boldsymbol{Q} Check whether there are some loops on the initiated (for initiated fault location)
	Auth Internet Access	v	Crear status detection completed	
14	Behavior Control	\sim	P Intranet DHCP service detection result. Please enable Intranet C	DHCP detector/ frot
°ð	Object Management	\sim	Intranet loop detection result: Please enable 'intranet loop detect	ion/ first
0	Salety Protection	\sim		
	P-MAC Binding			
	Connection Quantity Lim	*		
	LAN Absornal Detection			
	LAN Attack Protection			
	WAN Ping Forbid/WAN	Login		
1	Log Record	\sim		
Ţ	VPN	\sim		
	Device Maintenance	\sim		