ICP DAS

APW77BAM常見問題與解答

FAQ Version 1.00

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2019-04-29



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Q1: 如何匯入/匯出APW77BAM的設定?

A1: APW77BAM可由網頁匯出與匯入設定檔。

1.匯出設定檔

步驟1:使用網頁瀏覽器連線並登入至Web UI,預設的位址為 http://192.168.123.254. 預設密碼為admin。



步驟2: 到Others設定頁面。System (1) => System Tools (2) => other (3). 設定檔可藉由網頁瀏覽器來下載, 點選"Backup"按鈕(4)來下載設定檔。

🗅 192.168.123.50 × +					- 0	×
← → Ĉ 🔺 不安全 192.168.123.50				o. 🌣	0	:
Wizard Change	Password) FW Upgrade) System Time	3 ▶ Others	SSID : Staff_2.4G FW Version : 00RA0.1007_12071600		Logout	
Status Status	s Item Setting Default boot lict Detection Name or IP address for Ping Test	④ Backup Reset Reboot	Setting 04:00	(HE		
2 System Tools	Name or IP address for Traceroute	Save	Traceroute			
Config (1).bin					全部顯示	X

2.匯入設定檔

步驟1:使用網頁瀏覽器連線並登入至Web UI,預設的位址為 http://192.168.123.254. 預設密碼為admin。

192.168.123.50 ×	+		- 0
→ C ① 不安全 192.16	8.123.50		\$ 0
		SSID : Sta FW Versid	iff_2.4G on : 00RA0.1007_12071600
Password :		Client:0	
	IPv4 System Status		[HELP]
	Item	LAN Status	Sidenote
	IP Address	192.168.123.50	Static IP
	Subnet Mask	255.255.255.0	
	Gateway	0.0.0.0	
	Domain Name Server	0.0.0.0 , 0.0.0.0	
	Subnet Mask Gateway Domain Name Server	255.255.255.0 0.0.0.0 0.0.0.0,00.0.0	

步驟2: 到FW Upgrade頁面。System (1) => System Tools (2) => FW Upgrade (3). 點選按鈕(4)來選擇設定檔

的路徑,接下來再點選"Upgrade"來上傳設定檔。

Ľ	192.168.123.50 ×	+		_	٥	×
←	→ С 🔺 不安全 192.168	123.50	07	☆	0	:
		SSID : Staff_2.4G FW Version : 00RA0.1007_12071600		L	ogout	*
	Wizard	Change Password FW Upgrade System Time Others				
	Status	Firmware Upgrade		[HELP	1	
	Basic Network	Firmware Filename 選擇檔案 Fi選擇任何檔案				
	Advanced Network	Current firmware version is UCKAU.1007_12071600				
1	System	Notel Do not interrupt the process or power off the unit when it is being upgraded. When the process is done successfully, the unit will be restarted automatically.				
	System Information System Status					
2	System Tools MMI	Upgrade Cancel				

Q2: 當我忘記AP的IP,我該怎麼處裡?

A2: APW77BAM出廠預設的IP為"192.168.123.50",可按下APWBAM後方的Reset按鈕,將APW77BAM 回復為出廠預設值。



Q3: 當APW77BAM發射功率過高,我該如何處理?

A3: 可進入APW77BAM的設定頁面,來調整發射功率。

1. 2.4 GHz

步驟1:使用網頁瀏覽器連線並登入至Web UI,預設的位址為 <u>http://192.168.123.254</u>. 預設密碼為admin。

〕 192.168.123.50 ×	+		- 0
 → C 	8.123.50		☆ 0
		SSID : Sta FW Versio	iff_2.4G n:00RA0.1007_12071600
Password :		Client:0	
	IPv4 System Status		[HELP]
	Item	LAN Status	Sidenote
	IP Address	192.168.123.50	Static IP
	Subnet Mask	255.255.255.0	
	Gateway	0.0.0.0	
	Domain Name Server	0.0.0.0 , 0.0.0.0	
		·	

步驟2: 到Advanced RF Module1 Settings 頁面。Basic Network (1) => Wireless (2) => Advanced RF Module1

Settings (3). 點Transmit Power來更改APW77BAM的Power。

192.168.	123.50 ×	+			- 0 ×
\leftrightarrow \rightarrow G	▲ 不安全 192.16	8.123.50			• 🕸 🔾 😩 :
			3	SSID : Staff_2.4G FW Version : 00RA0.1007_12071600	Logout
	Wizard	RF Module1 RF Module2 Advanc	ed RF Module1 Settings Advanced RF Module2	Settings	
	Status	Advanced RF Module1 Settings			[HELP]
		Item		Setting	
	Basic Network	Regulatory Domain	(1-11)		
0.6	thernet LAN	Beacon Interval	100 Range: (1~1000 msec)		
2 • v	Vireless	Transmit Power	100% 🔻 4		
	PV6	RTS Threshold	2347 (1~2347)		
	Advanced Network	▶ Fragmentation	2346 (256~2346)		
		DTIM Interval	3 range (1~255)		
	System	▶ WMM Capable	C Enable		
		► AP Isolation	On 🔻		
		► Short GI	400ns •		
		TX Rates	Best V 5		
			Save		

2. 5 GHz

步驟1:使用網頁瀏覽器連線並登入至Web UI,預設的位址為 http://192.168.123.254. 預設密碼為admin。

192.168.123.50 × +			- 0
← → C ① 不安全 192.168.12	3.50		☆ ○ (🏻
		SSID : Sta FW Versio	ff_2.4G n:00RA0.1007_12071600
Password : <u>cogin</u> (default: admin)		Client:0	
	JPv4 System Status		[HELP]
	Item	LAN Status	Sidenote
	IP Address	192.168.123.50	Static IP
	Subnet Mask	255.255.255.0	
	Gateway	0.0.0.0	
	Domain Name Server	0.0.0.0 , 0.0.0.0	
	Statistics Information		

步驟2: 到Advanced RF Module2 Settings 頁面。Basic Network (1) => Wireless (2) => Advanced RF Module2

Settings (3). 點Transmit Power來更改APW77BAM的Power。

ß	192.168.123.50/index.htm ×	+			-	٥	×
\leftarrow	→ C 🔺 不安全 192.168.1	23.50/index.htm		0 ₩ Å	7 0		:
	Wizard	► RF Module1 ► RF Module2 ► Advanced	SSID : Staff_2.4G FW Version : 00RA0.1007_12071600 3 IRF Module1 Settings Advanced RF Module2 Settings		Log	out	-
	Status	Advanced RF Module2 Settings		Ð	HELP]		
		Item	Setting				
1	Basic Network	► Regulatory Domain	(36, 40, 44, 48, 149, 153, 157, 161, 165)				
	Ethernet LAN	Beacon Interval	100 Range: (1~1000 msec)				
2	• Wireless	▶ Transmit Power	100% • 4				
	• IPv6	▶ RTS Threshold	2347 (1~2347)				
	Advanced Network	Fragmentation	2346 (256~2346)				
		DTIM Interval	3 range (1~255)				
	😡 System	WMM Capable	C Enable				
		AP Isolation	On •				
		▶ Short GI	400ns v				
		TX Rates	Best				
		▶ 5G Band Steering	Enable 5				
			Save Undo				

Q4: 如何使用APW77BAM的WDS模式?

A4: 可進入APW77BAM的設定頁面,來將啟用APW77BAM的WDS模式。設定方式如下:

1. 測試架構

系統架構如下圖所示,僅一台AP需要拉ETH到電腦。另外一台AP是透過無線的方式,連到第一台 AP。

備註: WDS非標準的Wi-Fi協定。因此,各廠牌之間的AP會有相容性的問題。APW77BAM配合其他廠牌的AP,有可能造成WDS功能失效。



2.修改LAN IP

Step1. 進入設定網頁

➢ APW77BAM 預設的 IP 為 192.168.123.50。登入密碼為 admin。強烈建議登入後,修改登入密碼。

🥖 Windows Internet Explorer			
99.168.12	3.50		- > ×
		SSID : default FW Version: 00PH0.1006	-07151700
Password : Login (default: admin)			ent:0
	🧧 IPv4 System Status		[HELP]
	Item	WAN Status	Sidenote
	Remaining Lease Time	-	
	IP Address	0.0.0.0	
	Subnet Mask	0.0.0.0	
	Gateway	0.0.0.0	
	Domain Name Server	0.0.0.0 , 0.0.0.0	

Step2. 設定裝置的IP

- ▶ 點選"Basic Network" => "Ethernet LAN"進入無線設定頁面。更改 IP 設定後,按下儲存。
- 註: 兩台AP的IP請設在同一個網段內,並且IP錯開。

172.16.3.50 ×			Θ - 6	۶ ×
← → C ③ 172.16.3.50			\$	○ :
Wizard	2 > Ethemet LAN	SSID : WDS_2.4G FW Version : 00RA0.1005_11171700	Logout	
	Item	Setting		
Basic Network	Device Network Type	Static DHCP		
Ethernet LAN	LAN IP Address	172.16.3.50		
Wireless	▶ Subnet Mask	255.240.0.0 (/12) 3		
O IPv6	▶ Gateway	172.16.0.254		
Advanced Network	Primary DNS			
	 Secondary DNS 	<u> </u>		
System		Save		

3.AP設定

Step1. 選擇Wi-Fi頻段

- ➢ APW77BAM 可同時支援 2.4/5 GHz 兩個頻段。點選"Basic Network" => "Wireless"進入無線設定頁
 - 面。在進入無線頁面後,上方的 RF Module1 為 2.4 GHz 的設定; RF Module2 為 5 GHz 的設定。

	🗅 172.16.3.50 🛛 🗙 💭		Θ -	٥	×
~	→ C 🗋 192.168.123.50			07	◎ :
		SSID : WDS_2.4G FW Version : 00RA0.1005_11171700	Lo	gout	
	Wizard	RE Module1 RE Module2 Advanced RF Module1 Settings Advanced RF Module2 Settings			
	Status	Wireless Setting			
		Item Setting			
	Basic Network	► Wireless Module 🖉 Enable			
	Ethernet LAN	Wireless Operation Mode WDS Hybrid Mode			
	2 Wireless	→ Lazy Mode Enable			
	O IPv6	Green AP Enable			
	Advanced Network	AP Number AP 1 ▼			
		Network ID(SSID) WDS_2.4G			
	System	▶ SSID Broadcast I Enable			
		▶ VLAN ID ■ Enable 3 (3-4094)			

Step2. AP設定

- ▶ 點選"Basic Network" => "Wireless"進入無線設定頁面
 - 1. 將模式改為"WDS Hybrid Mode"
 - 2. 關閉 Lazy Mode
 - 3. 選擇第一組 AP 的設定,並勾選 Enable 的選項
 - 4. 設定 AP 的通道
 - 5. 選擇 AP 的加密模式
 - 6. 點選"Save"儲存設定
 - 7. 點選"Apply"讓參數生效

註:使用WDS連線的AP,請將SSID、通道與加密方式需設為相同。

C 192.168.123.50			م
🔣 Wizard	RF Module1 RF Module2 Advanced	RF Module1 Settings Advanced RF Module2 Settings	
	Wireless Setting		[HELP]
Status	Item	Setting	
Basic Network	Wireless Module	✓ Enable	
Ethernet LAN	Wireless Operation Mode	WDS Hybrid Mode •	
• Wireless	► Lazy Mode	Enable 2	
O IPv6	Green AP	Enable	
Advanced Network	AP Number	AP1 ▼ ≤ Enable 3	
<u> </u>	Network ID(SSID)	WDS_2.4G	
😡 System	SSID Broadcast	C Enable	
	▶ VLAN ID	Enable 3 (3~4094)	
	Max Supported Stations	Enable 3 (1~128)	
	WLAN Partition	Enable	
	▶ Channel	1 4	
	Wireless Mode	B/G/N Mixed V	
	► Bandwidth	Auto	
	Authentication	WPA2-PSK V	
	Encryption	AES V 5	
	 Preshared Key 	icpdas888	
	 Scan Remote AP's MAC List 	Scan	
	Remote AP MAC1		
	Remote AP MAC2		
	Remote AP MAC3		
	Remote AP MAC4	6 7	
		Save Undo WPS Setup Wireless Client List Apply	

Step3. 建立AP之間的WDS連線

- ▶ 掃描 AP 並建立連線
 - 1. 點選 SCAN 按鈕,掃描附近的 AP,掃描結果將會顯示在網頁下方。若掃描不到目標的 AP, 請重新點選 SCAN 按鈕,重新掃描 AP。
 - 2. 點選 Copy to 來複製 AP 的 MAC。
 - 3. 點選"Save"按鈕來儲存設定;在按下"Apply"來設定生效。

×							Θ	-		
C 192.168.123.50										
🕙 Wizard	RF Module1 RF Module	2 Advanced	RF Module1 Se	ttings • Advanced RF	Module2 Settings					
Status	Wireless Setting						[H	ELP]		
	Item				Setting					
Basic Network	Wireless Module		🗹 Ena	able						
Ethernet LAN	Wireless Operation Mode	Wireless Operation Mode			WDS Hybrid Mode •					
• Wireless	Lazy Mode	► Lazy Mode			Enable					
O IPv6	Green AP	Green AP			Enable					
Advanced Network	AP Number	AP Number			AP1 V M Enable					
<u> </u>	Network ID(SSID)	Network ID(SSID)			WDS_2.4G					
🥃 System	 SSID Broadcast 	SSID Broadcast								
	VLAN ID	🗆 Ena	Enable 3 (3~4094)							
	Max Supported Stations	🔲 Ena	able 3 (1~128)							
	WLAN Partition		Enable							
	Channel		1	•						
	Wireless Mode		B/G/N	Mixed v						
	Bandwidth		Auto	•						
	Authentication		WPA2-	PSK •						
	Encryption		AES	•						
	Preshared Key	Preshared Key			icpdas888					
	 Scan Remote AP's MAC List 	Scan	1							
	Remote AP MAC1	00:50:1	00:50:18:21:E7:94 Copy MAC to Here							
	Remote AP MAC2		Copy MAC to Here							
	Remote AP MAC3	Remote AP MAC3			Copy MAC to Here					
	Remote AP MAC4	Remote AP MAC4			Copy MAC to Here					
			Save Und	o WPS Setup Wirele	ss Client List Apply					
	Wireless AP List									
	SSID	Channel	Quality	Authentication	Encryption	MAC Address	Selec			
	DSL-6740C	1	20%	WPA2-PSK	AES	cc:b2:55:ff:ac:c8	Convit	10		
	Lohas-3F	1	5%	WPA2-PSK	AES	5c:6a:80:5b:21:68	Copy 1	.0		
	ATP fitness lab	1	10%	WPA2-PSK	AES	40:9b:cd:02:46:1e	Copy 1	0		

4.連線測試

Step1. 测試架構

▶ 將其中一台 AP 使用 ETH 連上 PC。



Step2.開啟命令提示字元

▶ 使用電腦 PING 另外一台 AP

若能PING到另外一台AP,代表連線建立成功。

C:\WINDOWS\system32\cmd.exe	-	×
C:\Users\Jack_ICPDAS>ping 172.16.3.60		
Ping 172.16.3.60 (使用 32 位元組的資料): 回覆自 172.16.3.60: 位元組=32 時間<11ms TTL=64 回覆自 172.16.3.60: 位元組=32 時間=2ms TTL=64 回覆自 172.16.3.60: 位元組=32 時間=2ms TTL=64 回覆自 172.16.3.60: 位元組=32 時間=2ms TTL=64		
172.16.3.60 的 Ping 統計資料: 封包: 已偶送 = 4, 已收到 = 4, 已違失 = 0 (0% 違失), 大約的來回時間 (濫物): 最小值 = Oms,最大值 = 2ms,平均 = 1ms		
C:\Users\Jack_ICPDAS>_		
		\sim