Multiple Basic SSID

情境說明:

一般而言,您需要不同的 AP 來形成不同的 BSS,但購買其他的 AP 需要額 外的成本,相對的也會造成無線頻道之間的干擾。NWA-3100 的 Multiple Basic SSID(MBSSID)功能提供了方案來解決上述的窘境。MBSSID 功能允許您同時間 利用一個 AP 提供多個 SSID,每個無線上網使用者可分別連結到不同的 SSID, 唯有連結相同 SSID 的無線上網使用者才可相互進行溝通;再者,您可利用 802.1Q VLAN 進行流量區隔,以達到更嚴格的安全性控管。

如範例圖所示, VLAN 1 和 VLAN 2 有各自 SSID 和無線上網使用者及其相關 資源。隸屬於 SSID 為 BSS 1 的無線使用者僅能存取 LAN 1 的資源、BSS 2 的 無線使用者亦僅能存取 LAN 2 的資源;而在 Router 或 Switch 的設備上僅需正 確執行 VLAN 相關設定,即可達成此目的。

範例圖:



組態設定

步驟一:進入設備 WebGUI 後,點選 Wireles 功能標籤頁,在右方頁面可看到您 正在 Wireless 子標籤頁。

| ZyXEL | | |
|-----------------------------|--|--|
| OVOTEN | WIRELESS LAN | |
| WIRELESS | Wireless SSID Security RADIUS Layer-2 Isolation MAC Filter | |
| IP ROGUE AP | Operating Mode Access Point | |
| REMOTE MGNT CERTIFICATES | 802.11 Mode 802.11b+g 🔽 | |
| LOGS | ☑ Super Mode | |
| VLAN | Choose Channel ID Channel-11 2462MHz or Scan | |
| MAINTENANCE | RISICIS Ihreshold 2346 (280 ~ 2346) | |
| LOGOUT | Fragmentation Intreshold 2340 (28 - 244) (Fragmentation threshold shall be an even number) | |
| | SSID Profile SSID03 | |
| | | |
| | ✓ Enable Breathing LED ✓ Enable Snanning Trace Protocol (STP) | |
| | Roaming Active | |
| | | |
| | | |
| | Apply Reset | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Status: Keady | |

步驟二:在 Operating Mode 選擇為「MBSSID」,即啓用 Multiple Basic SSID 功能。



步驟三:勾選您欲啓動的 SSID Profile,在此以 SSID03、SSID04 Profile 為設定範例。請依照您的真實需求進行相關勾選設定,勾選完畢請點選 Apply 進行套用。

| ZyXEL | | | | |
|--|--|--|--------------------------------------|--|
| | WIRELESS LAN | | | |
| SYSTEM WIRELESS | Wireless SSID Security RADIUS Layer-2 Isolati | n MAC Filter | | |
| IP ROGUE AP REMOTE MGNT CERTIFICATES LOGS VLAN MAINTENANCE LOGOUT | Operating Mode 802.11 Mode Super Mode Choose Channel ID RTS/CTS Threshold Fragmentation Threshold Output Power | MBSSID 802.11b+g Channel-06 2437MHz or 2346 (206 - 2246) 2345 (207 - 2340) (2345 - (207 - 2340) (2345 - (207 - 2340)) (2345 - (207 - 2340)) (235 - (207 | an Anald shall be an even numberj | |
| | Select SSID Profile | | | |
| | Index Profil 1 VolP_S | ID 5 | Profile SSID03 | |
| | 2 Guest_S | SID 6 | SSID03 | |
| | 3 🖬 SSID03 | | SSID03 | |
| | Enable Breathing LED Enable Spanning Tree Protocol (STP) Roaming Active | Accident and a contract of the second | SSIDUS | |
| | | | | |
| | Status: Ready | | | |

步驟四:點選 **SSID** 頁面,進行 SSID Profile 編輯。在此以 SSID03 為範例進行 設定。

| EM | WIRELE | 135 LAN | | | | | | | |
|---------|--------|---------|---------------|-------------------|----------------|----------|------|-------------------|---------|
| ESS | Wirele | 5510 | Security RADI | US Layer-2 Isolat | ion MAC Filter | | | | |
| E AP | | | | | | | | | |
| FICATES | | Index | Profile Name | SSID | Security | RADIUS | QoS | Layer-2 Isolation | MAC |
| | | • 1 | VoIP SSID | ZyXEL01 | security01 | radius01 | VolP | Disable | Disable |
| | | 0 2 | Guest SSID | ZvXEL02 | security01 | radius01 | NONE | 12isolation01 | Disable |
| IANCE | | • 3 | S SID03 | ZyXEL03 | security01 | radius01 | NONE | Disable | Disable |
| т | | | 551004 | ZYAELUA | security01 | radiusur | NONE | Disable | Disable |
| | | • 5 | SSID05 | ZyXEL05 | security01 | radius01 | NONE | Disable | Disable |
| | | • 6 | SSID06 | ZyXEL06 | security01 | radius01 | NONE | Disable | Disable |
| | | • 7 | SSID07 | ZyXEL07 | security01 | radius01 | NONE | Disable | Disable |
| | | • 8 | SSID08 | ZyXEL08 | security01 | radius01 | NONE | Disable | Disable |
| | | • 9 | S SID09 | ZyXEL09 | security01 | radius01 | NONE | Disable | Disable |
| | | • 10 | SSID10 | ZyXEL10 | security01 | radius01 | NONE | Disable | Disable |
| | | • 11 | SSID11 | ZyXEL11 | security01 | radius01 | NONE | Disable | Disable |
| | | 0 12 | SSID12 | ZyXEL12 | security01 | radius01 | NONE | Disable | Disable |
| | | • 13 | SSID13 | ZyXEL13 | security01 | radius01 | NONE | Disable | Disable |
| | | • 14 | SSID14 | ZyXEL14 | security01 | radius01 | NONE | Disable | Disable |
| | | • 15 | SSID15 | ZyXEL15 | security01 | radius01 | NONE | Disable | Disable |
| | | A 40 | 310122 | 7vXEL16 | security01 | radius01 | NONE | Disable | Disable |

步驟五:修改 SSID 為方便識別名稱,例如為 test01,此名稱為無線上網使用者 所看到的基地台名稱; Hide Name(SSID)功能若為 Disable,此時無線 使用者網卡才可偵測到該基地台無線訊號; Security 此亦為 Profile 之 觀念,請選擇任一 Profile,在對該 Profile 進行編輯即可,在此以 security01 Profile 為範例;另 Intra-BSS Traffic blocking 為是否允許 在相同 SSID 的無線使用者流量可彼此溝通,在此不進行此限制。設定 完畢請點選 Apply 進行套用。

| ZyXEL | | | | | | | | |
|-------------------------------|-----|---------------|---------------------------------|----------------|--------|-------------------|-------------------|-------|
| | WIR | ELESS | S LAN | | | | | |
| SYSTEM WIRELESS | | Wireless | SSID | Security | RADIUS | Layer-2 Isolation | MAC Filter | |
| IP ROGUE AP REMOTE MONT | | | Profile Name | : | | | SSID03 | |
| CERTIFICATES | | = | SSID : Hide Name(S | SID) : | | | test01 Disable | |
| VLAN | | \rightarrow | Security : | | | | security01 | |
| | | | QoS: | | | | NONE | ~ |
| LUGUUT | | _ | L2 Isolation : Intra-BSS Tra | affic blocking | | | Disable V | |
| | | | MAC Filtering | g : | | | Disable V | |
| | | | | | | | | |
| | | | | | | (| Apply | Reset |
| | | | | | | | | |
| | | | | | | | | |

步驟六:點選 Security 頁面,進行 security Profile 編輯。點選 Security01 進行 編輯。

| | Window CCI | Caraurity | | MAC Cites | |
|----------|---------------|-----------|-----------|----------------------------|---------------|
| S | wireless 55ii | Security | RADIUS La | yer-z isolation MAC Filter | |
| P | | | | | |
| ICATES | | | Index | Profile Name | Security Mode |
| | | | 1 | security01 | None |
| | | | 2 | security02 | None |
| NTENANCE | | | 3 | security03 | None |
| 0.0117 | | | 4 | security04 | None |
| GOUT | | | 5 | security05 | None |
| | | | 7 | security05 | None |
| | | | | securityon | None |
| | | | 0 | securityoo | None |
| | | | | security09 | None |
| | | | 10 | security10 | None |
| | | | 12 | security12 | None |
| | | | 12 | security12 | None |
| | | | 14 | security15 | None |
| | | | 15 | security15 | None |
| | | | 16 | security16 | None |
| | | | | Edit | |

步驟七:在 Secuirty Mode 選擇您欲設定之安全模式,例如為「WPA-PSK」, 再設定其共享金鑰(Pre-Shared Key)即可,設定完畢請點選 Apply 進行 套用。

| ZyXEL | | | | | | | | | |
|-----------------------------|-----------------|----------|------------------|---------------|--------|-------------------|----------|---------------|-------|
| | WIR | ELESS | S LAN | | | | | | |
| SYSTEM WIRELESS | | Wireless | SSID | Security | RADIUS | Layer-2 Isolation | MAC | Filter | |
| IP ROGUE AP | | I | Profile Name | e: | | | security |)1 | |
| REMOTE MGNT CERTIFICATES | Security Mode : | | | | | | WPA-PSK | | |
| LOGS | | L L | Pre-Shared Key : | | | | 12345678 | | |
| VLAN | | l l | ReAuthentic | ation Timer : | | | 1800 | (in seconds) | |
| MAINTENANCE | | 1 | Idle Timeout | t: | | | 3600 | (in seconds) | |
| LOGOUT | | | Group Key U | pdate Timer : | | | 1800 | (in seconds) | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | Apply | | leset |

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以上為 SSID03 Profile 之設定範例, SSID04 設定方式亦同, 唯 Security Profile 可依照您真實需求來進行其他設定,在此不另外贅述。

步驟八:上述設定完成後,您可在任一具備無線網路卡之電腦進行基地台無線訊 號搜尋,即可顯示如下圖之結果。



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