使用Cisco WLAN控制器的有線訪客存取組態範例

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簡介

本檔案介紹如何在使用Cisco Unified Wireless Software 4.2.61.0版及更新版本的Cisco WLAN控制器(WLC)上使用新的有線訪客存取功能支援來設定訪客存取。越來越多的公司認識到在客戶、合作 夥伴和顧問訪問其設施時需要為其提供Internet接入。IT經理可以為位於同一無線LAN控制器上的訪 客提供有線和無線安全且受控的網際網路訪問。

必須允許訪客使用者在完成配置的身份驗證方法後,連線到指定的乙太網埠並訪問管理員配置的訪 客網路。無線訪客使用者可以使用目前的訪客存取功能輕鬆連線到WLAN控制器。此外,無線控制 系統(WCS)以及WLAN控制器的基本配置和管理都提供增強的訪客使用者服務。對於已經部署或計 畫在其網路中部署WLAN控制器和WCS的客戶,他們可以利用相同的基礎設施進行有線訪客接入。 這為終端使用者提供了統一的無線和有線訪客接入體驗。

有線訪客埠位於指定位置,並插入接入交換機。存取交換器上的組態會將這些連線埠納入其中一個 有線訪客第2層VLAN。客戶可使用兩種不同的解決方案:

- 單個WLAN控制器(VLAN轉換模式) 接入交換機將訪客VLAN中的有線訪客流量中繼到提供 有線訪客接入解決方案的WLAN控制器。此控制器執行從輸入有線訪客VLAN到輸出VLAN的 VLAN轉換。
- 兩個WLAN控制器(自動錨點模式) 存取交換器將有線訪客流量中繼到本地WLAN控制器 (最接近存取交換器的控制器)。此本地WLAN控制器將客戶端錨定到為有線和無線訪客訪問 配置的隔離區(DMZ)錨點WLAN控制器。在成功將使用者端移轉到DMZ錨點控制器後,會在 DMZ WLC中處理DHCP IP位址分配、使用者端的驗證等。完成驗證後,使用者端可以傳送/接 收流量。



必要條件

需求

本文件沒有特定需求。

採用元件

思科統一無線軟體4.2.61.0版及更新版本支援思科WLAN控制器上的有線訪客接入功能支援。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路正在作用,請確保您已瞭解任何指令可能造成的影響。

設定

本節提供用於設定本文件中所述功能的資訊。

接入層交換機配置

為了提供有線訪客接入,管理員需要在訪客VLAN上配置第2層接入層交換機中的指定埠。訪客 VLAN必須與此交換器上設定的任何其他VLAN分開。訪客VLAN流量以中繼方式連線到最近的 WLAN本地控制器。本地控制器會透過Ethernet over IP(EoIP)通道將訪客流量通道連線到DMZ錨點 控制器。此解決方案至少需要兩個控制器。 或者,存取交換器將訪客VLAN中繼到單一控制器,並將訪客VLAN轉換為WLAN控制器的輸出介面

0

cat6506# show vlan id 49

VLAN Name Status Ports _____ _____ 49 VLAN0049 Gi2/1, Gi2/2, Gi2/4, Gi2/35 active Gi2/39, Fa4/24 VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2 enet 100049 1500 -0 0 49 Remote SPAN VLAN _____ Disabled Primary Secondary Type Ports _____ _____ cat6506# interface FastEthernet4/24 description Wired Guest Access switchport switchport access vlan 49 no ip address end cat6506# interface GigabitEthernet2/4 description Trunk port to the WLC switchport switchport trunk native vlan 80 switchport trunk allowed vlan 49,80,110 switchport mode trunk no ip address end

註:使用<u>Command Lookup Tool</u>(僅供<u>註冊</u>客戶使用)查詢有關本文檔中使用的命令的詳細資訊 0

有線訪客部署要點

- •目前,有線訪客存取支援五個訪客LAN。在錨點WLC上總共可設定16個無線使用者的WLAN和 5個有線訪客存取的WLAN。WLAN不存在單獨的隧道。所有訪客WLAN(包括有線訪客存取的 WLAN)使用與錨點WLC相同的EoIP通道。
- 管理員需要在WLAN控制器中建立動態介面,將其標籤為「訪客LAN」,然後將其與作為訪客 LAN建立的WLAN相關聯。
- 確保錨點和遠端控制器上的WLAN配置(包括身份驗證)完全相同,以傳遞客戶端流量。
- WLC應該具有相容的軟體版本。確保它們運行相同的主要版本。
- Web驗證是有線訪客LAN上可用的預設安全機制。目前可用的選項包括:Open、Web Auth和 Web Passthrough.
- 如果遠端和錨點WLC之間的EoIP通道發生故障,則從錨點WLC清除使用者端資料庫。使用者端 需要重新關聯並重新驗證。
- 不支援第2層安全性。
- 有線訪客LAN上的多點傳送/廣播流量會遭到捨棄。

• 錨點和遠端控制器上的DHCP代理設定必須相同。

對於有線訪客,控制器中執行閒置逾時。如果在設定的期間內沒有收到來自使用者端的封包,系統 就會將使用者端從控制器中移除。下次使用者端傳送位址解析通訊協定(ARP)要求時,系統會建立 一個新的使用者端專案,並根據安全組態適當移至Web驗證/執行狀態。

平台支援

以下平台支援有線訪客存取:

• Cisco WLC 4402、4404、WiSM、3750G、5508、WiSM2、虛擬WLC

無線LAN組態

在此範例中,假設無線LAN控制器的基本組態。重點是完成有線訪客接入實施所需的額外配置。

 建立一個動態介面並將其標籤為「訪客LAN」。在當前版本中建立此動態介面時,需要提供 IP地址和預設網關,即使它不是第2層VLAN;您無需提供任何DHCP地址。有線訪客使用者端以 實體方式連線到此VLAN。

cisco		<u>W</u> LANS		WIRELESS	<u>S</u> ECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP
Controller	Interfaces	s > Edit						
General Inventory	General II	nformatio	on					
Interfaces	Interface	Name	wired-vl	an-49				
Multicast	MAC Add	ress	00:18:b	9:ea:a7:23				
Network Routes	Interface	Address						
Internal DHCP Server	Interface	Address		_				
Mobility Management	VLAN Ide	ntifier	49					
Ports	IP Addres	is	10.10	.49.2				
NTP	Netmask		255.2	55.255.0				
P CDP	Gateway		10.10	.49.1				
P Advanced	Physical I	nformati	on					
	Port Num	ber	1					
	Backup P	ort	0					
	Active Po	rt	1					
	Enable Dy Managem	rnamic AP ent						
	Configura	tion						
	Quarantin	e						
	Guest Lar	ı	Y					
	DHCP Info	rmation						
	Primary D	HCP Serve	er 📃					
	Secondar	y DHCP Se	rver					
	Access Co	ontrol Lis	t					
	ACL Nam	e	none					
	Note: Chang temporarily some clients	ing the Inte disabled an	erface parameters d thus may result	causes the WL in loss of conn	ANs to be ectivity for			

2. 建立另一個動態介面,讓有線訪客使用者端接收到IP位址。**附註**:您需要在此介面中提供IP地 址/預設網關/DHCP伺服器地址。

CISCO	MONITOR	WLANs		WIRELESS	SECURITY	MANAGEMENT	COMMANDS	HELP
Controller	Interfaces	s > Edit						
General Inventory	General I	nformatio	on					
Interfaces	Interface	Name	110					
Multicast	MAC Add	ress	00:18:b	9:ea:a7:23				
Network Routes								
Internal DHCP Server	Interrace	Address		_				
Mobility Management	VLAN Ide	ntifier	110					
Ports	IP Addres	55	10.10	0.110.2				
N IP	Netmask		255.2	255.255.0				
Advanced	Gateway		10.10	0.110.1				
- Hurdineed	Physical I	nformati	on					
	Port Num	ber	1					
	Backup P	ort	0					
	Active Po	rt	1					
	Enable Dy Managem	ynamic AP ient						
	Configura	tion						
	Quarantin	ne						
	Guest Lar	n						
	DHCP Info	ormation						
	Primary D	DHCP Serve	er 10.10	0.110.1				
	Secondar	y DHCP Se	rver					
	Access Co	ontrol Lis	t					
	ACL Nam	e	none)	×			
	Note: Chang temporarily some clients	ing the Inte disabled an	erface parameters d thus may result	causes the WL tin loss of conn	LANs to be lectivity for			

3. 以下是動態介面

cisco	MONITOR WLANS		WIRELESS	<u>S</u> ECURITY	MANAGEMENT CON	MANDS HELP	
Controller	Interfaces						
General	Interface Name	VL	AN Identifier	IP Address	Interface Type	Dynamic AP Management	t
Inventory	110	11	0	10.10.110.2	Dynamic	Disabled	5
Interfaces	ap-manager	un	tagged	10.10.80.4	Static	Enabled	
Multicast	management	un	tagged	10.10.80.3	Static	Not Supported	
Network Routes	service-port	N/	A	0.0.0.0	Static	Not Supported	
Internal DHCP Server	virtual	N/	A	1.1.1.1	Static	Not Supported	
Mobility Management	wired-vlan-49	49		10.10.49.2	Dynamic	Disabled	C

4. 新增一個WLAN:Type=訪客LAN。

Cisco_40:53x3 - Microsol	It Internet Explorer			State 1				X BLC
File Edit View Favorites	Tools Help							an 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19
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ahaha						Saye Co	nfiguration (Emg.	Logout (Enfresh
cisco	MONITOR MUNIS	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	COMMANDS	HELP	권관관관을 통한
WLANs	WLANs > New						< Back	Apply
* WLANS WLANS	Туре	Guest LAN	•					
Advanced	Profile Name	Wired-Gues	t					
	WLAN SSID	Wined-Gues	٩					

5. 啟用WLAN;將輸入介面對映到步驟1中建立的「訪客LAN」,並且輸出介面可以是管理介面或 任何其他動態介面,不過最好是動態介面,如步驟2中建立的動態介面。

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WLANS	General	Security	Qos	Advanced	91920202091				
WLANS	Profile N	ame	Wired-0	went					
Advanced	Туря		Guert	AN					
	SSID		Wired-0	uein .					
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			(Propage 164		a becound over	ma ayyata awar a	Marinin and Pullio	WERT CONTRACTOR	
	Ingress	Interface	wired-v	lan-49 •					
	Egress I	nterface	manap	ment 💌					
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	Foot Note	5							
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6. Web驗證預設為在訪客LAN上設定的安全選項啟用。可變更為None或Web Passthrough。



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Address 😰 https://10.77.244.204/screens/frameset.html										
- abab-							Sage	Configuration Ping	Logout	tefresh
CISCO	MONITOR	<u>W</u> LANs	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	COMMANE	S HELP		
WLANs	WLANs								New	
WLANS							Admin			
WLANS	Profile Na	me	Туре	P WLA	IN SSID		status	Security Policies		_
Advanced	timeb		WLAN	V tswe	Þ		Enabled	[WPA2][Auth(802.1×)]		-
	Wired-Guts	1. C	Gues	tLAN Wire	d-Guest		Enabled	Web-Auth		-

8. 在WLC的本地資料庫中新增訪客使用者。

Cisco_40:53:c3 - Microsoft Is	nternet Explorer					_ @ ×
File Edit View Favorites	Tools Help					
🌀 Back + 🎲 - 💌 💈	🔣 🔎 Search 🤺 Favor	ees 🚱 🍰 😓 🗔 🔜	11			Links ¹⁰
Address () Https://10.77.244.20	4/screens/frameset.html					💌 🛃 😡
- abala -				Sage Cor	nfiguration Bing-	Logout Befresh
CISCO	MONITOR WLANS CO	INTROLLER WIRELESS SEC	URITY MANAGEMENT	COMMANDS	неця	
Security	Local Net Users > Ed	lit			< Back	Apply
	User Name	guest				
General	Password					
RADIUS Authentication	Confirm Password	*****				
Accounting	Lifetime (seconds)	86400				
+ TAGACS+	Guest User Role	П				
LDAP Local Net Users	Creation Time	Thu Nov 20 14:12:32 2008				
MAC Filtering Disabled Clients	Remaining Time	23 h 59 m 56 s				
User Login Policies	WLAN Profile	Wired-Guest				
AP Policies	Description	Wired-guest				
 Drivelty Order 						
Access Control Lists						
Wireless Protection Policies						
F Web Auth						
Advanced						
Done .					3 9 30	ternet
左从 如你 雷 一	收龄、现实为现	宁的「話安LAN」	在出口虚	你重西坡	甘設宁为1	甘佃企而

在外部,您需要將輸入設定為設定的「訪客LAN」。 在出口處,您需要將其設定為某個介面 ,可能是管理介面。但是,一旦EoIP隧道建立,它就會自動通過隧道傳送流量,而不是管理地 址。

使用錨點WLAN控制器的有線訪客存取

在本示例中,遠端無線LAN控制器的IP地址為10.10.80.3,錨點DMZ控制器的IP地址為10.10.75.2。 兩者均屬於兩個不同的移動組。

1. 新增遠端控制器的MAC地址、IP地址和移動組名稱時,配置錨點DMZ控制器的移動組。

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cisco	MONITOR	WLANs		R WIRELESS	SECURITY	MANAGEMENT	COMMANDS	HELP
Controller	Mobility (Group Me	embers > E	dit All				
General Inventory Interfaces Multicast	This page al Mobility grou address and spaces.	llows you to up member up member d group nan	o edit all mobili rs are listed be r is represented ne(optional) se	ity group members low, one per line. I d as a MAC addres parated by one or	s at once. Each ss, IP more			
Network Routes Internal DHCP Server	00:18:59:0	94:52:60 ea:a7:20	10.10.95.2	mobile-10	_			
 Mobility Management Mobility Groups Mobility Anchor Config 								
Ports					-			
NTP	I				151			
▶ CDP								
Advanced								

2. 同樣,在遠端控制器中配置移動組。

- dudu								
cisco	MONITOR	<u>W</u> LANs		WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP
Controller General Inventory Interfaces Multicast	Mobility (This page al Mobility grou address and spaces.	Group Me llows you to up member up member d group nan	embers > Edit o edit all mobility s are listed below is represented as ne(optional) separ	All group members , one per line. E a MAC addres ated by one or	at once. Each ss, IP more			
Internal DHCP Server Mobility Management Mobility Groups Mobility Anchor Config Ports	00:18:73:	34:52:60	10.10.75.2 h o	b11e-7	-			
NTP CDP Advanced	I				<u></u>			

3. 使用錨點WLC中的確切名稱建立有線WLAN。此案例中的輸入介面為「無」,因為輸入介面在 邏輯上是來自遙控器的EoIP通道。輸出介面是另一個介面,有線客戶端通過該介面接收IP地址 。在此範例中,建立一個稱為guest的動態介面。但是,在這個階段,您無法啟用WLAN,因 為它顯示一條錯誤消息,說明入口介面不能是none。

LANS	WLANs > Edit	< Back	Apply
WLANs	General Security	QoS Advanced	
Advanced	Profile Name	wired-guest-1	
Advanced	Туре	Guest LAN	
	SSID	wired-guest-1	
	Status	Enabled	
	Security Policies Ingress Interface Egress Interface	Web-Auth (Nodifications done under security tab will appear after applying the changes.) None v guest	

4. 將第3層安全配置為Web驗證,類似於遠端控制器。

CISCO	MONITOR MUNNI CONTROLLER WIRELESS SECLETTI MYLINGHENT COMMUNIS HELP	
WLANs	WLANE > Edit	< Back Apply
WLAN	Laper 2 Laper 3 AAA Servers Laper 2 Security Test Authentication (2) Preaction tester ACL Tester Overview Global Coding (2) Ready	

5. 在錨點控制器上建立移動錨點,並將其對映到其自身。

alada						Companies Deg Legent Labore
CISCO	ROMMON BITHPP 1	CONTROLLER, MINELESS SECONTY N	Brosnen: connece helt			
WLANS	WLANs					News
-						
* WLANS	Profile Name	Type WLAS SSID	Admin Status Security Policies	-		
F Advanced	95	eveless of	Enabled Web-Auth			
	<u>8</u>	wreen 92	Enseled Web-Auth			
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	PROCESSION	and antiquit.	Control of	Relieve		
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WLANs	Nobility Anchore					< mack
		1				
VILANI VILANI	WLAH SSID	e-çunit				
F Advanced	South IP Address (Ar	talian)		Data Path	Control Path	
	local			uğ	4	•
	In the second se	Contraction in the local sector of the local s				
	Pickelity Arechard	Create				
	Switch IP Address (/	Anchor) 10.30.00.3 W				

6. 建立行動錨點後,返回並啟用有線WLAN。

CISCO	MONITOR WLANS CONT	ROLLER WIRELESS	SECURITY MANAGEMENT	COMMANDS	HELP	
WLANs	WLANs > Edit				< Back	Apply
WLANS	General Security	QoS Advanced				
Advanced	Profile Name	wired-guest-1				
	Туре	Guest LAN				
	SSID	wired-guest-1				
	Status	Enabled				
	Security Policies	Web-Auth (Modifications done under	r security tab will appear after a	pplying the change	s.)	
	Ingress Interface	None 💌				
	Egress Interface	guest 💌				

7. 同樣地,在遠端WLC上為有線訪客WLAN建立行動錨點。

cisco	BONLOV REAR SU	NTROLLER HIR	eless geowity	маносием сдиним	та неца		Saga Configuration Ding Legent British
WLANS	WLANs						New
* WLANS NLANS F Advanced	Postilo Name Gl Gl gl preclasses	Type Winders Winders Wind	WLAN SSID gå gå wired-guest	Admin Statue Enabled Disabled Enabled	Security Policies Web-Auth Web-Auth Web-Auth Web-Auth	C C Fotors March	

選擇錨點WLC的IP地址並建立移動錨點。

cisco	ROWLING WINNE CONTROLLER WERELESS SECURITY HERMORMENT COMMINDS HER		ine of a second s
WLANs	Mobility Anchora		< Back
* WLANS	WLAN SSID wind-quart		
> Advanced	wetch IF Address (Anchor)	Data Path	Control Path
	20.18.78.2	up	up 🖸
	Packity Archer treats Writch IP Address (Anchor) 10.30.00.30mml #		

檢查資料和控制路徑是否為up。如果沒有,請確保錨點和遠端無線LAN控制器之間的這些埠是 開啟的:UDP 16666或IP 97。

8. 有線訪客使用者連線到交換機並完成Web身份驗證後,策略管理器狀態必須為RUN,並且移動 角色為Export Foreign。

abab			5	age Configuration Ping Logout Refre
CISCO	MONITOR WLANS CONT	TROLLER WIRELESS SECUR	RITY MANAGEMENT COMM	ANDS HELP
Monitor	Clients > Detail		< Back	Apply Link Test Remove
Summary	Client Properties		AP Properties	
Access Points	MAC Address	00:0d:60:5e:ca:62	AP Address	Unknown
 Statistics CDR 	IP Address	0.0.0.0	AP Name	N/A
k Roques	Client Type	Regular	AP Type	Unknown
Clients	User Name		WLAN Profile	wired-guest-1
Multicast	Port Number	1	Status	Associated
	Interface	110	Association ID	0
	VLAN ID	110	802.11 Authentication	Open System
	CCX Version	Not Supported	Reason Code	0
	E2E Version	Not Supported	Status Code	0
	Mobility Role	Export Foreign	CF Pollable	Not Implemented
	Mobility Peer IP Address	10.10.75.2	CF Poll Request	Not Implemented
	Policy Manager State	RUN	Short Preamble	Not Implemented
	Mirror Mode	Disable 💌	PBCC	Not Implemented
	Management Frame Protection	No	Channel Agility	Not Implemented

同樣地,檢查錨點WLC中的狀態。策略管理器狀態必須為RUN,並且移動角色為匯出錨點。

Timeout

				Save Configuration - Eng - Cogout - Kerre
Monitor	Clients > Detail	IROLLER WIRELESS	SECORITY MANAGEMENT COM	Apply Link Test Remove
Summary	Client Properties		AP Properties	
Access Points Statistics	MAC Address IP Address	00:0d:60:5e:ca:62	AP Address AP Name	Unknown 10.10.80.3
CDP Rogues	Client Type User Name	Regular	AP Type WLAN Profile	Mobile wired-guest-1
Clients Multicast	Port Number	1	Status	Associated
	VLAN ID	guest 77	802.11 Authentication	Open System
	CCX Version E2E Version	Not Supported Not Supported	Reason Code Status Code	0
	Mobility Role Mobility Peer IP Address	Export Anchor 10.10.80.3	CF Pollable CF Poll Request	Not Implemented Not Implemented
	Policy Manager State Mirror Mode	RUN Disable	Short Preamble PBCC	Not Implemented
	Management Frame Protection	No	Channel Agility	Not Implemented

有線訪客使用者端組態

有線訪客使用者端收到來自輸出VLAN的IP位址,但在其完成Web驗證程式之前,無法傳遞任何流 量。

要以訪客使用者身份登入,請執行以下步驟:

1. 開啟瀏覽器視窗並輸入所需的URL名稱(例如www.cisco.com)。 如果已啟用Web驗證,則訪客 將被重新導向到無線LAN控制器的預設網頁,且可對輸入的URL完成DNS解析。否則,請輸入 此URL:https://1.1.1.1/login.html,其中IP地址1.1.1.1是無線LAN控制器的虛擬IP地址。

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Address Phttps://l.1.1.1.fogin.html Cocogle C+ O Go + C E + P Bookmarks+ O Oblocked + Addetht + P Addetht + Send to + C Login Welcome to the Cisco wireless network Cisco is pleased to provide the Wireless LAN infrastructure for your network: Please login and put your air space to work. User Name guest1 Password Submit	🚰 Go Linis ²⁰ 🥌 Snegit 💽 📷
Coople C	Settings
Login Melome to the Cisco wireless network Cisco is pleased to provide the Wireless LAN infrastructure for your network. Please login and put your air space to work. User Name guest Password Submit	
Welcome to the Cisco wireless network Cisco is pleased to provide the Wireless LAN infrastructure for your network. Please login and put your air space to work. User Name guest1 Password ••••••••	
Welcome to the Cisco wireless network Cisco is pleased to provide the Wireless LAN infrastructure for your network. Please login and put your air space to work. User Name guest1 Password Submit	
Cisco is pleased to provide the Wireless LAN infrastructure for your network. Please login and put your air space to work. User Name guest1 Password Submit	
User Name guest1 Password •••••••	
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Web Authentication	Settings +
Login Successful !	
You can now use all regular network services Web Authentication	
over the wireless network.	
Please retain this small logout window in order to logoff when done. Note the the window is order by logoff when done. Note the the window is order to be a set of the set of th	
use the following URL to retrieve this page: Keep the small logout window around so that you can logout vitas vit 1 1 / 0x0vit html successfully when done. Else you can always doth following	
urito logout: http://t.t.tit/logout.html	
i internet	

本地WLC上有線訪客連線的調試

此偵錯會提供與有線訪客使用者端相關的所有資訊。

debug client

```
Cisco Controller) > show debug
MAC address ..... 00:0d:60:5e:ca:62
Debug Flags Enabled:
 dhcp packet enabled.
 dot11 mobile enabled.
 dot11 state enabled
 dot1x events enabled.
 dot1x states enabled.
 pem events enabled.
 pem state enabled.
 (Cisco Controller) >Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62
  Adding mobile on Wired Guest 00:00:00:00:00(0)
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62
  apfHandleWiredGuestMobileStation
  (apf_wired_guest.c:121) Changing state for mobile
   00:0d:60:5e:ca:62 on AP 00:00:00:
00:00:00 from Idle to Associated
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62 0.0.0.0 START (0)
   Initializing policy
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62 0.0.0.0 START (0)
  Change state to AUTHCHECK (2) last state AUTHCHECK (2)
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62 0.0.0.0 AUTHCHECK (2)
   Change state to L2AUTHCOMPLETE (4) last state L2AUTHCOMPLETE (4)
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62 0.0.0.0 L2AUTHCOMPLETE (4)
  Change state to DHCP_REQD (7) last state DHCP_REQD (7)
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62
  apfPemAddUser2 (apf_policy.c:209) Changing state for mobile
   00:0d:60:5e:ca:62 on AP 00:00:00:00:00 from Associated to Associated
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62 Session Timeout is 0 -
  not starting session timer for the mobile
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62
   Stopping deletion of Mobile Station: (callerId: 48)
Tue Sep 11 13:27:42 2007: 00:0d:60:5e:ca:62
  Wired Guest packet from 10.10.80.252 on mobile
Tue Sep 11 13:27:43 2007: 00:0d:60:5e:ca:62
  Wired Guest packet from 10.10.80.252 on mobile
Tue Sep 11 13:27:43 2007: 00:0d:60:5e:ca:62
   Orphan Packet from 10.10.80.252
Tue Sep 11 13:27:43 2007: 00:0d:60:5e:ca:62
  Wired Guest packet from 169.254.20.157 on mobile
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62
  Wired Guest packet from 169.254.20.157 on mobile
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62 0.0.0.0
  DHCP_REQD (7) State Update from Mobility-Incomplete
   to Mobility-Complete, mobility role=Local
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62 0.0.0.0
  DHCP_REQD (7) pemAdvanceState2 3934, Adding TMP rule
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62 0.0.0.0
  DHCP_REQD (7) Adding Fast Path rule
type = Airespace AP - Learn IP address on AP 00:00:00:00:00:00,
```

```
slot 0, interface = 1, QOS = 0 ACL Id = 255,
   Jumbo Frames = NO, 802.1P = 0, DSCP = 0, TokenID = 5006
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62 0.0.0.0 DHCP_REQD
   (7) Successfully plumbed mobile rule (ACL ID 255)
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62
   Installing Orphan Pkt IP address 169.254.20.157 for station
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62
   Unsuccessfully installed IP address 169.254.20.157 for station
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62
   0.0.0.0 Added NPU entry of type 9
Tue Sep 11 13:27:44 2007: 00:0d:60:5e:ca:62
  Sent an XID frame
Tue Sep 11 13:27:45 2007: 00:0d:60:5e:ca:62
  Wired Guest packet from 169.254.20.157 on mobile
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP received op BOOTREQUEST (1) (len 310, port 1, encap 0xec00)
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP selecting relay 1 - control block settings:
dhcpServer: 0.0.0.0, dhcpNetmask: 0.0.0.0,
dhcpGateway: 0.0.0.0, dhcpRelay: 0.0.0.0 VLAN: 0
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
   DHCP selected relay 1 - 10.10.110.1(local address 10.10.110.2,
   gateway 10.10.110.1, VLAN 110, port 1)
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP transmitting DHCP DISCOVER (1)
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
        op: BOOTREQUEST, htype: Ethernet, hlen: 6, hops: 1
  DHCP
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP
        xid: 0x87214d01 (2267106561), secs: 0, flags: 8000
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP chaddr: 00:0d:60:5e:ca:62
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP ciaddr: 0.0.0.0, yiaddr: 0.0.0.0
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP siaddr: 0.0.0.0, giaddr: 10.10.110.2
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP requested ip:10.10.80.252
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP ARPing for 10.10.110.1 (SPA 10.10.110.2, vlanId 110)
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP selecting relay 2 - control block settings:
dhcpServer: 0.0.0.0, dhcpNetmask: 0.0.0.0,
dhcpGateway: 0.0.0.0, dhcpRelay: 10.10.110.2
  VLAN: 110
Tue Sep 11 13:27:48 2007: 00:0d:60:5e:ca:62
  DHCP selected relay 2 - NONE
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP received op BOOTREQUEST (1) (len 310, port 1, encap 0xec00)
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP selecting relay 1 - control block settings:
dhcpServer: 0.0.0.0, dhcpNetmask: 0.0.0.0,
dhcpGateway: 0.0.0.0, dhcpRelay: 10.10.110.2 VLAN: 110
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP selected relay 1 - 10.10.110.1(local address 10.10.110.2,
   gateway 10.10.110.1, VLAN 110, port 1)
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP transmitting DHCP DISCOVER (1)
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP op: BOOTREQUEST, htype: Ethernet, hlen: 6, hops: 1
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP xid: 0x87214d01 (2267106561), secs: 36957, flags: 8000
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
   DHCP chaddr: 00:0d:60:5e:ca:62
```

```
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP ciaddr: 0.0.0.0, yiaddr: 0.0.0.0
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP siaddr: 0.0.0.0, giaddr: 10.10.110.2
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP requested ip: 10.10.80.252
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP sending REQUEST to 10.10.110.1 (len 350, port 1, vlan 110)
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP selecting relay 2 - control block settings:
dhcpServer: 0.0.0.0, dhcpNetmask: 0.0.0.0,
dhcpGateway: 0.0.0.0, dhcpRelay: 10.10.110.2 VLAN: 110
Tue Sep 11 13:27:51 2007: 00:0d:60:5e:ca:62
  DHCP selected relay 2 - NONE
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP received op BOOTREPLY (2) (len 308, port 1, encap 0xec00)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP setting server from OFFER
   (server 10.10.110.1, yiaddr 10.10.110.3)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP sending REPLY to Wired Client (len 350, port 1)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP transmitting DHCP OFFER (2)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP op: BOOTREPLY, htype: Ethernet, hlen: 6, hops: 0
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
        xid: 0x87214d01 (2267106561), secs: 0, flags: 8000
  DHCP
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP
        chaddr: 00:0d:60:5e:ca:62
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP ciaddr: 0.0.0.0, yiaddr: 10.10.110.3
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP siaddr: 0.0.0.0, giaddr: 0.0.0.0
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP server id: 1.1.1.1 rcvd server id: 10.10.110.1
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP received op BOOTREQUEST (1) (len 334, port 1, encap 0xec00)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP selecting relay 1 - control block settings:
dhcpServer: 10.10.110.1, dhcpNetmask: 0.0.0.0,
dhcpGateway: 0.0.0.0, dhcpRelay: 10.10.110.2 VLAN: 110
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP selected relay 1 - 10.10.110.1(local address 10.10.110.2,
   gateway 10.10.110.1, VLAN 110, port 1)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP transmitting DHCP REQUEST (3)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP op: BOOTREQUEST, htype: Ethernet, hlen: 6, hops: 1
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP xid: 0x87214d01 (2267106561), secs: 36957, flags: 8000
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP chaddr: 00:0d:60:5e:ca:62
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP ciaddr: 0.0.0.0, yiaddr: 0.0.0.0
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
        siaddr: 0.0.0.0, giaddr: 10.10.110.2
  DHCP
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
        requested ip: 10.10.110.3
  DHCP
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP server id: 10.10.110.1 rcvd server id: 1.1.1.1
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP sending REQUEST to 10.10.110.1(len 374, port 1, vlan 110)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP selecting relay 2 - control block settings:
```

```
dhcpServer: 10.10.110.1, dhcpNetmask: 0.0.0.0,
dhcpGateway: 0.0.0.0, dhcpRelay: 10.10.110.2 VLAN: 110
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP selected relay 2 -NONE
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP received op BOOTREPLY (2) (len 308, port 1, encap 0xec00)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
   10.10.110.3 DHCP_REQD (7) Change state to WEBAUTH_REQD
   (8) last state WEBAUTH_REQD (8)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
   10.10.110.3 WEBAUTH_REQD (8) pemAdvanceState2
   4598, Adding TMP rule
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  10.10.110.3 WEBAUTH_REQD (8) Replacing Fast Path rule
 type = Airespace AP Client - ACL passthru
 on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0
 ACL Id = 255, Jumbo Frames = NO, 802.1P = 0, DSCP = 0, TokenID = 5006
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  10.10.110.3 WEBAUTH REQD (8) Successfully
  plumbed mobile rule (ACL ID 255)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
   Plumbing web-auth redirect rule due to user logout
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  Adding Web RuleID 31 for mobile 00:0d:60:5e:ca:62
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  Assigning Address 10.10.110.3 to mobile
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP sending REPLY to Wired Client (len 350, port 1)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP transmitting DHCP ACK (5)
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP op: BOOTREPLY, htype: Ethernet, hlen: 6, hops: 0
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP xid: 0x87214d01 (2267106561), secs: 0, flags: 8000
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP chaddr: 00:0d:60:5e:ca:62
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP ciaddr: 0.0.0.0, yiaddr: 10.10.110.3
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  DHCP siaddr: 0.0.0.0, giaddr: 0.0.0.0
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
        server id: 1.1.1.1 rcvd server id: 10.10.110.1
  DHCP
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62
  10.10.110.3 Added NPU entry of type 2
Tue Sep 11 13:27:54 2007: 00:0d:60:5e:ca:62 Sent an XID frame
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62
  Username entry (quest1) created for mobile
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62
   Setting guest session timeout for mobile
   00:0d:60:5e:ca:62 to 79953 seconds
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62
   Session Timeout is 79953 - starting session timer for the mobile
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62
   10.10.110.3 WEBAUTH_REQD (8) Change state to
  WEBAUTH_NOL3SEC (14) last state WEBAUTH_NOL3SEC (14)
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62
   10.10.110.3 WEBAUTH_NOL3SEC (14) Change state to RUN
   (20) last state RUN (20)
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62 10.10.110.3 RUN
   (20) Reached PLUMBFA STPATH: from line 4518
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62 10.10.110.3 RUN
   (20) Replacing FastPath rule
type = Airespace AP Client
```

```
on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0
ACL Id = 255, Jumbo Frames = NO, 802.1P = 0, DSCP = 0, TokenID = 5006
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62 10.10.110.3 RUN
  (20) Successfully plumbed mobile rule (ACL ID 255)
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62 10.10.110.3
  Added NPU entry of type 1
Tue Sep 11 13:28:12 2007: 00:0d:60:5e:ca:62 Sending a gratuitous
  ARP for 10.10.110.3, VLAN Id 110
```

驗證

目前沒有適用於此組態的驗證程序。

疑難排解

目前尚無適用於此組態的具體疑難排解資訊。

相關資訊

- 設定自動錨點行動化
- 使用WLC的訪客WLAN和內部WLAN配置示例
- 使用無線 LAN 控制器的外部 Web 驗證組態範例
- <u>思科無線LAN控制器組態設定指南4.2版</u>
- 無線產品支援
- 技術支援與文件 Cisco Systems