# 使用 Cisco WLAN 控制器的有线访客接入配置示 例

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## 简介

本文档介绍如何在使用思科统一无线软件版本 4.2.61.0 及更高版本的思科无线局域网控制器 (WLC) 上使用新的有线访客接入功能支持来配置访客接入。如今,越来越多的公司认识到,他们需要在客 户、合作伙伴和顾问光顾公司设施时为其提供互联网接入。IT 管理人员可以在同一台无线局域网控 制器上为访客提供受到保护和控制的有线和无线互联网接入。

在访客用户完成配置的身份验证方法后,必须允许他们连接到指定的以太网端口并访问由管理员配置的访客网络。无线访客用户可使用当前访客访问功能轻松连接到 WLAN 控制器。此外,无线控制系统 (WCS) 配合无线局域网控制器的基本配置和管理,能够提供增强的访客用户服务。对于已在其网络中部署或计划部署 WLAN 控制器的客户,他们可以将此同一基础架构用于有线访客访问。这为最终用户提供了一致的无线和有线访客访问体验。

有线访客端口在指定的位置提供,并插入到接入交换机中。接入交换机上的配置将这些端口放入其 中一个有线访客第 2 层 VLAN 中。为客户提供了两个不同的解决方案:

- 一个 WLAN 控制器(VLAN 转换模式)- 接入交换机将访客 VLAN 中的有线访客数据流中继到 提供有线访客访问解决方案的 WLAN 控制器。此控制器执行从入口有线访客 VLAN 到出口 VLAN 的 VLAN 转换。
- 两个 WLAN 控制器(自动锚点模式)- 接入交换机将有线访客数据流中继到本地 WLAN 控制器 (距离接入交换机最近的控制器)。 此本地无线局域网控制器将客户端锚定于为有线和无线访 客接入配置的隔离区 (DMZ) 锚点无线局域网控制器上。将客户端成功转交给 DMZ 锚点控制器 后,在 DMZ WLC 中处理 DHCP IP 地址分配和客户端身份验证等。在完成身份验证后,便允 许客户端发送/接收数据流了。



## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

Cisco 统一无线软件版本 4.2.61.0 及更高版本支持 Cisco WLAN 控制器上的有线访客访问功能支持。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您使用的是真实网络,请确保您已经了解所有命令的潜在影响。

### 配置

本部分提供有关如何配置本文档所述功能的信息。

### 接入层交换机配置

为了提供有线访客接入,管理员需要在访客 VLAN 中配置第 2 层接入层交换机中的指定端口。访客 VLAN 必须与在此交换机上配置的所有其他 VLAN 分开。访客 VLAN 数据流被中继到最近的 WLAN 本地控制器。本地控制器通过 IP 以太网 (EoIP) 隧道将访客流量隧道传输到 DMZ 锚点控制器。此

#### 或者,接入交换机将访客 VLAN 中继到单个控制器,将访客 VLAN 转换为无线局域网控制器的出口 接口。

cat6506# show vlan id 49

VLAN Name Status Ports \_\_\_\_\_ VLAN0049 active Gi2/1, Gi2/2, Gi2/4, Gi2/35 49 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

### 有线访客部署的重点

- •目前,有线访客访问支持五个访客 LAN。总共可以在锚点 WLC 上配置 16 个用于无线用户的 WLAN 和 5 个用于有线访客访问的 WLAN。WLAN 没有单独的隧道。所有访客 WLAN(包括 用于有线访客访问的 WLAN)都使用相同的 EoIP 隧道与锚点 WLC 通信。
- 管理员需要在 WLAN 控制器中创建动态接口,将它们标记为"Guest LAN",并将它们与作为访 客 LAN 创建的 WLAN 关联。
- 确保锚点控制器和要传输客户端流量的远程控制器上的无线局域网配置(包括身份验证)相同。
- WLC 应具有兼容的软件版本。请确保它们运行同一个主要版本。
- Web 身份验证是有线访客 LAN 上可用的默认安全机制。当前可用的选项包括:"Open"、"Web Auth"和"Web Passthrough"。
- 如果远程和锚点 WLC 之间的 EoIP 隧道出现故障,将从锚点 WLC 中清除客户端数据库。客户 端需要重新关联并重新进行身份验证。

• 不支持第 2 层安全。

- 有线访客 LAN 上的多播/广播数据流将被丢弃。
- 锚点控制器和远程控制器上的 DHCP 代理设置必须相同。

对于有线访客,控制器中会运行一个空闲超时程序。如果在配置的时段内未收到来自客户端的数据 包,将从控制器中删除该客户端。当客户端下一次发送地址解析协议 (ARP) 请求时,系统将创建新 的客户端条目,并相应地按照安全配置将其转为 Web 身份验证/运行状态。

### 平台支持

下列平台支持有线访客访问:

• 思科 WLC 4402、4404、WiSM、3750g、5508、WiSM2、虚拟 WLC

#### 无线 LAN 配置

在本示例中,假设无线 LAN 控制器采用基本配置。重点是完成有线访客访问实施所需的附加配置。

 创建一个动态接口并将其标记为"Guest LAN"。在当前版本中创建此动态接口时,需要提供 IP 地址和默认网关,即使因为它是第2层 VLAN 而不存在;不需要提供任何 DHCP 地址。有线 访客客户端以物理方式连接到此 VLAN。

CISCO	MONITOR	<u>W</u> LANs		WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HE <u>L</u> P
Controller	Interfaces	s > Edit						
General Inventory	General I	nformatio	on					
Interfaces	Interface	Name	wired-v	an-49				
Multicast	MAC Add	ress	00:18:b	9:ea:a7:23				
Network Routes								
Internal DHCP Server	Interface	Address		_				
Mobility Management	VLAN Ide	ntifier	49					
Ports	IP Addres	55	10.1	0.49.2				
NIP b.cop	Netmask		255.	255.255.0				
) Advanced	Gateway		10.1	0.49.1				
- Havancea	Physical I	informati	on					
	Port Num	ber	1	]				
	Backup P	ort	0	]				
	Active Po	rt	1					
	Enable D Managem	ynamic AP Yent						
	Configura	tion						
	Quarantir	ne						
	Guest Lar	n	V					
	DHCP Info	ormation						
	Primary I	DHCP Serve	er 🗌					
	Secondar	γ DHCP Se	rver					
	Access Co	ontrol Lis	t					
	ACL Nam	e	none	•				
	Note: Chang temporarily some clients	ing the Inte disabled an 1.	erface parameters of thus may result	causes the WL tin loss of conn	ANs to be ectivity for			

2. 创建另一个动态接口,有线访客客户端将从该接口接收 IP 地址。注意:您需要在此接口中提供 IP 地址/默认网关/DHCP 服务器地址。

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	Interface	Address		_				
Mobility Management	VLAN Ide	ntifier	110					
Ports	IP Addres	ss	10.10	0.110.2				
NTP	Netmask		255.2	255.255.0				
P CDP	Gateway		10.10	0.110.1				
P Auvanceu	Physical I	nformati	on					
	Port Num	ber	1					
	Backup P	ort	0					
	Active Po	rt	1					
	Enable D Managem	ynamic AP ient						
	Configura	tion						
	Quarantir	ne						
	Guest La	n						
	DHCP Info	ormation						
	Primary (	OHCP 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 ar	arface parameters id thus may result	causes the Wi in loss of conn	LANs to be vectivity for			

### 3. 以下是动态接口

cisco	MONITOR WLANS	CONTROLLER WIRELESS	SECURITY	MANAGEMENT CON	IMANDS HELP	
Controller	Interfaces					
General	Interface Name	VLAN Identifier	IP Address	Interface Type	Dynamic AP Managemen	t
Inventory	110	110	10.10.110.2	Dynamic	Disabled	
Interfaces	ap-manager	untagged	10.10.80.4	Static	Enabled	
Multicast	management	untagged	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	
	1.	40	10 10 10 0	Due serie	Winshing d	- e

4. 添加新的 WLAN : Type=Guest LAN。

Cisco_48:53x3 - Microsol	It Internet Explorer			19. Sec. 13				alei X
File Edit. Mew Favorites	Toola Help							200
(3 m · () · 1	2 🏠 🔎 Search 📩	lavortes 🧑 🧯	1.2.17	24				Links ."
Address 1 Mtps://10.77.244	204/screens/frameset.html							• 🖸 🛯
ahaha						Saye Co	nfiguration ( Emg.	Logout ( Enfresh
cisco	MONITOR MUNIS	CONTROLLER	WIRELESS	SECURITY	MANAGEMENT	COMMANDS	HELP	경험성경우는 문제
WLANs	WLANs > New						< Back	Apply
* WLANS	Туре	Guest LAN	3					
Advanced	Profile Name	Wired-Guest	t					
	WLAN SSID	wired-Gues	t					

5. 启用 WLAN;将输入接口映射到在第 1 步中创建的"访客 LAN",输出接口可以是管理接口或任 何其他动态接口,但最好是动态接口(如第 2 步中创建的动态接口)。

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Address 👔 https://10.77.244	1.204/screene;Frameset.html	- 🔁 👳
cisco	Sale Configuration 1 E MONITOR WLANS CONTROLLER WIRELESS SECURITY MONAGEMENT COMMANDS HELP	3ng i Logout Enfresi
WLANS WLANS WLANS Advanced	WLANS > Edit         Concernal         Security         Qos         Advanced           Profile Name         Wired-Gunnt         Type         Guest LAN         SSD         Wired-Gunnt           Status         IF         Enabled         Enabled         Enabled         Enabled         Enabled           Status         IF         Enabled         Enabled	

6. 默认情况下将启用 Web 身份验证作为在访客 LAN 上配置的安全选项。可以将其更改为 None 或 Web Passthrough。



CIECO_401330C3 - PBCF050	et internet topiorer					- ALC: A
Fão Edit View Favoritor	: Tools Help					
🕒 Back, 🔹 😥 🕗 🛃	🗿 🏠 🔎 Search 🔥 Fax	vortas 🚱 🍰 头	a 🖙 🔜 🛍 👘			Linka <sup>30</sup>
Address () https://10.77.244	1.204/screens/frameset.html					🖃 🛃 😡
- abab				51 <u>7</u> 6	Configuration   Ping   Logo	it <u>B</u> efresh
CISCO	MONITOR WLANS	CONTROLLER WIREL	ESS SECURITY	MANAGEMENT COMMAND	IS HELP	
WLANs	WLANs.				New	
WLANS WLANS	Profile Name	Туре	WLAN SSED	Admin Status	Security Policies	
Advanced	Simeb. Wired-Guest	WLAN Guest LAN	tsweb Wired-Guest	Enabled Enabled	[WPA2][Auth(802.1×)] Web-Auth	

8. 在 WLC 的本地数据库中添加一个访客用户。

Cisco_40:53:c3 - Microsoft I	nternet Oxplorer						
File Edt View Favorites	Tools Help						
🕒 Back + 💬 - 💌 💈	🏠 🔎 Search 🤺 Fi	wontes 🙆 🍰 😓 🗔	🗖 🛍 👘				Links <sup>10</sup>
Address 2 Https://10.77.244.20	4/screens/frameset.html	- 10 X					💌 🔁 😡
- ahali.					Sage Col	nfiguration   Ping	Logout   Befresh
cisco	MONITOR WLANS	CONTROLLER WIRELESS	SECURITY M	WAGEMENT	COMMANDS	HELP	
Security	Local Net Users >	Edit				< 8ack	Apply
* 484	User Name	guest					
General	Password	••••					
+ RADIUS Authentication	Confirm Password	*****					
Accounting Fallback	Lifetime (seconds)	86400					
▶ TACACS+	Guest User Role						
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 AP Proficies	WLAN Profile	Wired-Guest					
E Local EAP	Description	Wired-guest					
> Priority Order							
Access Control Lists							
Wireless Protection     Policies							
▶ Web Auth							
Advanced							
Done	-					🔒 🙂 3M	ternet
在 Foreign 上	您雲要将入口ù	会置为已配置的"ì	方客 I AN'	'。在出	口办 雪	要将其设置	雪为某些接

在 Foreign 上,您需要将入口设置为已配置的"访客 LAN"。 在出口处,需要将其设置为某些接 口,或许可以是管理接口。但是,一旦建立 EoIP 隧道,它就会自动通过隧道而非管理地址发 送流量。

### 使用锚点 WLAN 控制器的有线访客访问

在本示例中,远程无线LAN控制器的IP地址为10.10.80.3,锚点DMZ控制器的IP地址为10.10.75.2。 这两个地址都属于两个不同的移动组。

1. 在添加远程控制器的 MAC 地址、IP 地址和移动组名称时配置锚点 DMZ 控制器的移动组。

all and the first of the second s								a filmina i film			
cisco	MONITOR	WLANs		R WIRELESS	SECURITY	MANAGEMENT	COMMANDS	HELP			
Controller	Mobility (	lobility Group Members > Edit 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	_						
<ul> <li>Mobility Management Mobility Groups Mobility Anchor Config</li> </ul>											
Ports					-						
NTP	I				151						
▶ CDP											
Advanced											

#### 2. 与此相同,请在远程控制器中配置移动组。

cisco		<u>W</u> LANs		WIRELESS	SECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP
Controller General Inventory Interfaces Multicast Network Routes Internal DHCP Server Mobility Management Mobility Groups Mobility Anchor Config	Mobility C This page al Mobility gro address and spaces.	Group Me lows you to up member up member d group nan d group nan ea: a7:20 34: b2: 60	controller embers > Edit o edit all mobility is are listed below is represented as ne(optional) separ	All group members , one per line. E a MAC addres ated by one or abile-9	e at once. Each ss, IP more	MERCAGEMENT		HELP
Ports					-			
CDP     Advanced								

3. 使用锚点 WLC 中的确切名称创建有线 WLAN。在这种情况下,入口接口为"无",因为从逻辑 上讲,入口接口是来自远程控制器的EoIP隧道。输出接口是一个不同的接口,有线客户端将到 该接口去接收 IP 地址。在本示例中,创建了名为*访客的动态接口。*但是,在此阶段不能启用 该 WLAN,因为系统会显示错误消息,说明入口接口不能为*无*。

VLANs	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	Web-Auth	
		(Modifications done under security tab will appear after applying the changes.)	
	Ingress Interface	None 💌	
	Egress Interface	guest 💌	

4. 将第3 层安全配置为 Web 身份验证, 与远程控制器相同。

CISCO	MONILLE MINNE CONTROTTER MINETERS SECLETE MANAGEMENT COMMANDS HELD	
WLANs * HLANC VLANS * Advanced	WLANE>Edit General Security GeS Advanced	< Back Apply
	Laper 2 Laper 3 ABL Servers Layer 2 Security Web Authentication In Presedentication ACL Texas In	
	Over-vite Global Config. II Exable II Evail Input	

5. 在锚点控制器上创建移动锚点,并且将其映射到自身。

cisco	BONILOY REAR 5	ONTROLLER MIR	eless geowith	чунжнент сранич	та неда			Sage Configuration   Disg   Legant   Betroh.
WLANS	WLANs							New
* WLANS NUARS F Advanced	Profile Name 95, 93 93 93 99 90 94 90 90 90 90 90 90 90 90 90 90 90 90 90	Type Window Window Wind	WLAN SSID gl g2 g3 wired-guest	Admin Status Enabled Enabled Disabled Enabled	Security Policies Web-Auth Web-Auth Web-Auth Web-Auth	C C C C C C C C C C C C C C C C C C C		
cisco	HONITOR WLANI S	ONTROLLER W/F	ELESS GECURITY I	нумаемент сончна	co Hela			isaya Conferencia ( 1989) (Itagiraf (Barrieto)
WLANs	Mobility Anchore							I K Mack -
* WLANS	MLAN SSID wind	guert						
> Advanced	Smitch IP Address (And	Switch IP Address (Anchor)					Control Path	_
	Nability Ambar D	reals				up	Lap.	

### 6. 创建移动锚点后,返回并启用有线 WLAN。

cisco	MONITOR WLANS CON	NTROLLER WIRELESS SECURIT	TY MANAGEMENT COMMAN	NDS HELP	
WLANs	WLANs > Edit			< Back	Apply
WLANs	General Security	QoS Advanced			
Advanced	Profile Name	wired-guest-1			
	Type SSID	Guest LAN wired-guest-1			
	Status	P Enabled			
	Security Policies	Web-Auth (Modifications done under security t	ab will appear after applying the	changes.)	
	Ingress Interface	None 💌			

7. 与此相同,请在远程 WLC 上为有线访客 WLAN 创建移动锚点。

cisco	BONILON BEAN CONTR		ныгая дослати муниси	ENT COMMAN	tis Hella		Sept Configuration   Ding   Legend   Leftersh
WLANs	WLANs						New
* WLANS	Profile Name	Type	WLAN SSID	Admin Status	Security Policies		
WLANS	a£.	Windows	at .	Enabled	Web-Auth	•	
E Advanced	<b>a</b> 2	Wireless	<b>b</b> 5	Enobled	Web-Auth		
	a1	Wireless	<b>p3</b>	Disabled	Web-Auth		
	wined.co.tet.	wined	wired-guest.	Enabled	Web-Auth	Factors	
						35	

#### 选择锚点 WLC 的 IP 地址并创建移动锚点。

cisco	ROWLING WINNE CONTROLLER WEREIESS RECIPCITY MEMOREMENT COMMINIES HELP		en e
WLANs	Nobility Anchara		< mack
* WLANS	WLAN SSID Hird-part		
> Advanced	wetch IF Address (Anchor)	Data Path	Control Path
	20.18.78.2	ug	up 🗖
	Publicly Archar Create		

检查数据和控制路径能否正常工作。如果不能,请确保锚点控制器与远程无线局域网控制器之间开放了以下端口:UDP 16666 或 IP 97。

8. 一旦有线访客用户连接到交换机并完成 Web 身份验证,Policy Manager State 就必须为 RUN,Mobility Role 为 Export Foreign。

- ahaha -			s	age Configuration   Ping   Logout   Befree
CISCO	MONITOR WLANS CONT	Roller Wireless <u>s</u>	ECURITY MANAGEMENT COMM	ANDS HELP
Monitor	Clients > Detail		< Back	Apply Link Test Remove
Summary	<b>Client Properties</b>		AP Properties	
Access Points     Statistics	MAC Address	00:0d:60:5e:ca:62	AP Address	Unknown
k con	IP Address	0.0.0.0	AP Name	N/A
k Roman	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
			Timeput	0

同样,在锚点 WLC 中检查状态。Policy Manager State 必须为 RUN,Mobility Role 为 Export

Anchor。				
cisco	MONETOR WLANS CON	TROLLER WIJRELESS SECT	IRITY MANAGEMENT COMM	age Configuration   Ping   Logout   Berre IANDS 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	IP Address	10.10.77.11	AP Name	10.10.80.3
> COP	Client Type	Regular	AP Type	Mobile
Clients	User Name	guest	WLAN Profile	wired-guest-1
Multicast	Port Number	1	Status	Associated
	Interface	guest	Association ID	0
	VLAN ID	77	802.11 Authentication	Open System
	CCX Version	Not Supported	Reason Code	0
	E2E Version	Not Supported	Status Code	0
	Mobility Role	Export Anchor	CF Pollable	Not Implemented
	Mobility Peer IP Address	10.10.80.3	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
			Timeout	0

### 有线访客客户端配置

有线访客客户端从出口 VLAN 接收 IP 地址,但在完成 Web 身份验证程序之前无法传输任何流量。

要以访客用户身份登录,请执行以下步骤:

 打开浏览器窗口并输入所需的 URL 名称(例如,www.cisco.com)。如果已启用 Web 身份 验证并且可以对输入的 URL 完成 DNS 解析,系统会将访客重定向至无线局域网控制器的默认 网页。否则,请输入以下 URL: https://1.1.1.1/login.html,其中 IP 地址 1.1.1.1 是无线 LAN 控制器的虚拟 IP 地址。

Web Authentication	<ul> <li>Microsoft Internet Explor</li> </ul>	rer			<u>e 19</u>
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Login					
Welcome to the	e Cisco wireless networ	rk			
Cisco is pleased to	provide the Wireless LAN infra	rastructure			
for your network. PI	aase login and put your air spa	ace to work.			
User Name	guest1	]			
Password	•••••	]			
	Submit				
	Submit				
◎ → 小提供的用 □果登录成功	户名和口令。 ,会显示一个泳	刘览器窗口进行说明。		🍰 🔵 14	bernet
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Done 🔁

### 本地 WLC 上的有线访客连接调试

此调试提供所有与有线访客客户端有关的信息。

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
  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
  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
```

## 验证

当前没有可用于此配置的验证过程。

## 故障排除

目前没有针对此配置的故障排除信息。

## 相关信息

- 配置自动锚点移动性
- 使用 WLC 的访客 WLAN 和内部 WLAN 配置示例
- 使用无线局域网控制器的外部 Web 身份验证配置示例
- <u>Cisco 无线 LAN 控制器配置指南 4.2 版</u>
- 无线产品支持
- <u>技术支持和文档 Cisco Systems</u>