# 設定Catalyst 9800和FlexConnect OEAP分割通道

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# 簡介

本文說明如何將室記憶體取點(AP)設定為FlexConnect Office Extend(OEAP),以及如何啟用分割通 道,以便您可以定義哪些流量可以在總部本地交換,哪些流量必須在WLC集中交換。

# 必要條件

# 需求

本檔案中的組態假設已在DMZ中啟用NAT設定WLC,且AP可從總部加入WLC。

## 採用元件

本文中的資訊係根據以下軟體和硬體版本:

- 執行Cisco IOS-XE 17.3.1軟體的無線LAN控制器9800。
- Wave1 AP:1700/2700/3700 .
- Wave2 AP:1800/2800/3800/4800和Catalyst 9100系列。

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。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

愚君

Cisco OfficeExtend接入點(Cisco OEAP)提供從Cisco WLC到遠端位置的Cisco AP的安全通訊,從 而通過網際網路將公司WLAN無縫擴展到員工的住所。使用者在家庭辦公室中的體驗與在公司辦公 室中的體驗完全相同。接入點和控制器之間的資料包傳輸層安全(DTLS)加密可確保所有通訊具有最 高級別的安全性。 FlexConnect模式下的任何室內AP都可以充當OEAP。

### 背景資訊

FlexConnect指接入點(AP)在遠端位置(例如,通過WAN)運行時處理無線客戶端的能力。他們還可以決定來自無線客戶端的流量是直接放在AP級別的網路上(本地交換),還是根據WLAN將流量 集中到9800控制器(中央交換)並通過WAN傳送回。

有關FlexConnect的詳細資訊,請檢查瞭解Catalyst 9800無線控制器上的FlexConnect文檔。

OEAP模式是FlexConnect AP中提供的一種選項,用於允許使用其他功能,例如用於家庭接入的個 人本地SSID,還可以提供分割隧道功能,從而更加精細地定義必須在家庭辦公室本地交換的流量和 必須在單個WLAN上在WLC集中交換的流量

# 設定

### 網路圖表



#### 組態

#### 定義分割隧道的訪問控制清單

步驟1.選擇Configuration > Security > ACL。選擇新增。

步驟2.在新增ACL設定對話方塊中,輸入ACL名稱,從ACL型別下拉選單中選擇ACL型別,並在 Rules設定下輸入序列號。然後選擇「操作」作為「允許」或「拒絕」。

步驟3.從「來源型別」下拉式清單選擇所需的來源型別。

如果選擇源型別為主機,則必須輸入主機名/IP。

如果選擇源型別為網路,則必須指定源IP地址和源萬用字元掩碼。

### 在本示例中,從任何主機到子網192.168.1.0/24的所有流量都集中交換(拒絕),而其餘所有流量 則本地交換(允許)。

Cisco Cisco Cata	ilyst 9800-CL Wireless Ci	ontroller	Welcome admin		Search APs and Clients Q
Q Search Menu Items	Configuration * > Security *	> ACL			
Dashboard	+ Add X Delete	Associate Interfaces			
Monitoring >	Add ACL Setup	HomeOffice ACL	ACL Type	IPv4 Extended	×
🖧 Configuration 🕠	Rules				
Administration	Sequence*	1	Action	deny	
C Licensing	Source Type	any 🔻			
X Troubleshooting	Destination Type	Network			
	Destination IP*	192.168.1.0	Destination Wildcard*	0.0.0.255	
	Protocol	ip.			
	Log	0	DSCP	None	
	+ Add × Delete				
	Sequence ~ Action	<ul> <li>Source IP</li> <li>Wildcard</li> </ul>	IP Destination Vildcard	Source  Protocol  Port	Port DSCP v Log v
	4 4 0 ⊨ ⊨	10 🔹 items per page			No items to display
	Cancel				Apply to Device

步驟4.如果想要日誌,請選中Log覈取方塊,然後選擇Add。

### 步驟5.新增其餘規則並選擇Apply to Device。

🛄 Apps 🧾 My 📃 PersonalAdmin 📃 WorkAndVac	: 📙 WebMons 📒 Shifts 📙 Communi	ity 📴 PS 🛄 HTTS 🚺 Wir 🛄	11AX 📴 eWLC 🛄 DNA	LAB Home Lab	WNBU 🔂 AC 🛛 »
Cisco Catalyst 9800-	CL Wireless Controller	Welcome admin	* * 8 0	to O C Soar	rch APs and Clients Q
Q. Ssarch Meno Items Configurati	ion*> Security*> ACL Collects Associate Inter	faces			
Add ACL	Setup			_	×
Monitoring > ACL Name	e* HomeOffice_ACL	. ACL Type	IPv4 Extended	i w	
Configuration > Rules					
Administration         >         Sequence	*	Action	permit	•	
© Licensing Source Ty	any	•			
X Troubleshooting Destination	n Type any	•			
Protocol	ahp	•			
Log	o	DSCP	None	•	
+ Ad	d X Delete				
Sec	quence ~ Source ~ Action ~ IP	Source v Destination v De Wildcard IP V	estination ~ Vildcard Protocol ~	Source - Destinati Port Port	on ~ DSCP ~ Log ~
O 1	deny any	192.168.1.0 0.0	0.0.255 ip	None None	None Enabled
0 2	permit any	any	ip	None None	None Disabled
14.4	1 🕨 🕨 🛛 10 🔻 items per p	age			1 - 2 of 2 items
Cance	1				Apply to Device

將ACL策略連結到已定義的ACL

步驟1.建立新的Flex配置檔案。轉至Configuration > Tags & Profiles > Flex。選擇新增。

步驟2.輸入名稱並啟用OEAP。此外,請確保本徵VLAN ID是AP交換機埠中的VLAN ID。

Cisco Catalyst 9800-C	L Wireless Controller			Welcome admin	* 8 0 % 0 0 -	n Al <sup>i</sup> s and Cleme. Q
Configuration Dashboard Dashboard Onordening Configuration Configuratio	<ul> <li>Tags &amp; Profiles * &gt; Fiex</li> <li>Field Constraints</li> <li>Add Flex Profile</li> <li>General Local Authentical Name*</li> <li>Description</li> <li>Native VLAN ID</li> <li>HTTP-Proxy IP Address</li> <li>CTS Policy</li> <li>Indine Tagging</li> <li>SGACL Enforcement</li> <li>CTS Profile Name</li> </ul>	tion Policy ACL VLAN HomeOffice_FlexProfile Enter Description 1 0 0.0.0.0 default-sxp-profilex	Umbrella Falback Radio Shut Flex Resilient ARP Caching Efficient Image Upgrade Office Extend AP Join Minimum Latency mDNS Flex Profile	C C C Search or Select •	×	
	Cancel				출 Apply to Device	

**附註**:啟用Office-Extend模式時,預設情況下也會啟用鏈路加密,即使在AP加入配置檔案中 禁用鏈路加密也無法更改。

步驟3.轉到Policy ACL頁籤並選擇Add。此處將ACL新增到配置檔案並應用到裝置。

¢	cisco	Cisco Catalyst 9800-CL W	/ireless Controller	Welcome admin	*	6	• 19	02	
Q	Search Menu I	tems Configuration * >	Tags & Profiles * > Flex						
		Add Flex Profile							×
0		General Local Authentic	cation Policy ACL VLAN	Umbrella					
		ACL Name	✓ Central Web Auth ✓ Filter	th URL ~					
হিয়		HomeOffice_ACL	Disabled						
C		≪ ◀ 1 ▷ ▷  10 ·	items per page     1 - 1	of 1 items					
×		Cancel						Ĩ	Apply to Device

#### 配置無線配置檔案策略和拆分MAC ACL名稱

步驟1.建立WLAN設定檔。在本示例中,它使用名為HomeOffice的SSID和WPA2-PSK安全性。

步驟2.建立策略配置檔案。轉至Configuration > Tags > Policy,然後選擇Add。在General下,確保此 配置檔案是集中交換的策略,如以下示例所示:

Cisco Cisco Catalys	st 9800-CL Wireless Co	ntroller	Welcome admin	80800
A	dd Policy Profile			×
Q Search Menu Items	General Access Policies	QOS and AVC Mobility	Advanced	
Dashboard	A Configur	ng in enabled state will result in los	s of connectivity for clients associated wit	th this profile.
💮 Monitoring 🛛 🗸				
Configuration	Name*	HomeOfficePolicy	WLAN Switching Policy	
Administration	Description	Enter Description	Central Switching	
	Status		Central Authentication	ENABLED
CLEEnsing	Passive Client	DISABLED	Central DHCP	
X Troubleshooting	Encrypted Traffic Analytics	DISABLED	Central Association	
	CTS Policy		Flex NAT/PAT	DISABLED
	Inline Tagging	0		
	SGACL Enforcement	0		
	Default SGT	2-65519		
	2 Canad			
	Cancel			Apply to Device

步驟3.在Policy Profile中,轉至Access Policies並為要集中交換的流量定義VLAN。使用者端會取得 指定給此VLAN的子網中的IP位址。

Search Menu Items	Coni	aduration	<ul> <li>Tags &amp; Profil</li> <li>X Doleto</li> </ul>	General	Access Policies	QOS and AVC	Mobility	Advanced			
Dashboard		Status -	Policy Profile Nam	RADIUS	Profiling	o			WLAN ACL		
Monitoring >	0	0		HTTP TL	V Caching	0			IPv4 ACL	Search or Select	•
Configuration >	0	۲	HomeOfficePolic	DHCP TL	V Caching	0			IDV6 ACL	Search or Select	
	0	0	F,	WLAN L	ocal Profiling				IPVO AGE	Content of Context	
Administration >	0	0	Farage raine is not		-		~		URL Filters		
Licensing	14	- 1	► ► 10 •	Global St Classifica	ate of Device ation	Disable	d (i)		Pre Auth	Search or Select	•
Troubleshooting				Local Sul	bscriber Policy Name	Searc	h or Select	•	Post Auth	Search or Select	•
				VLAN							
				VLAN/VL	AN Group	defau	t				
				Multicast	VLAN	Enter	Multicast VLA	N			

步驟4.要在AP上配置本地拆分隧道,需要確保在WLAN上啟用了DCHP Required。這可確保與拆分WLAN關聯的客戶端執行DHCP。您可以在Advanced頁籤下的Policy Profile中啟用此選項。啟用覈取方塊IPv4 DHCP Required。在WLAN Flex Policy設定下,從Split MAC ACL下拉選單中選擇之前建立的拆分MAC ACL。選擇應用到裝置:

Cisco Cataly	st 9800-CL Wir	eless Contro	oller We	elcome admin 🛛 🖀 🌾 🖺 🐇		Search APs and Clients Q
O Search Menu Items	Configuration * >	Tags & Profil	Edit Policy Profile			×
	+ Add X	Delete:	Idle Threshold (bytes)	0	User Defined (Priva	ate) Network
Dashboard	Status v Po	licy Profile Nam	Client Exclusion Timeout (sec)	Ø 60	Status	o
Monitoring >	0 0 1-		Guest LAN Session Timeout	0	Drop Unicast	o
Configuration	0 O Ho	omeOfficePolic	DHCP		Umbrella	
ک کے Administration			IPv4 DHCP Required	٥	Umbrella	Not Configured
C Licensing		raur-noucu-no	DHCP Server IP Address		Parameter Map	
X Troubleshooting			Show more >>>		for DNS	
			AAA Policy		DNS Traffic Redirect	IGNORE
			Allow AAA Override	Ø	WLAN Flex Policy	
			NAC State	0	VLAN Central Switch	ing Ø
			Policy Name	default-aaa-policy x	Split MAC ACL	HomeOffice_ACU x v
			Accounting List	Search or Select 🔹	Air Time Fairness I	Policies
					2.4 GHz Policy	Search or Select
					5 GHz Policy	Search or Select 👻
			ී Cancel			Update & Apply to Device

附註: Apple iOS客戶端需要在DHCP提供中設定選項6(DNS),以便分割隧道正常工作。

#### 將WLAN對映到策略配置檔案

步驟1.選擇Configuration > Tags & Profiles > Tags。在Policy頁籤中選擇Add。

步驟2.輸入標籤策略的名稱,然後在WLAN-POLICY Maps頁籤下選擇Add。

步驟3.從WLAN Profile下拉選單中選擇WLAN profile,然後從Policy Profile下拉選單中選擇Policy profile。選擇勾選圖示,然後選擇應用到裝置。

	o Catalyst 98	800-CL Wireless Contro	ller V	/elcome admin	• • • • •	C Search APs and	t Clients Q
Q. Search Manu Rams	Conf	iguration * > Tags & Profiles	• > Tags				
Dashboard	Polic	xy Site RF AP					
(C) Monitoring	- , 💾	+ Add Add Policy Tag				×	
	> c	Name*	HomeOfficePolicyTag				~
	> C	Description	Enter Description				
C Licensing	0	RLA VULAN-POLIC	Y Maps: 0				
K Troubleshooting	-	Add × Da	ilete				1 - 5 of 5 items
		WLAN Profile		<ul> <li>Policy Profile</li> </ul>		~	
		⊲ ⊲ 0 ⊫ ⊨	10 🔻 items per page		No items	to display	
		Map WLAN and Po	olicy				
		WLAN Profile*	HomeOffice	Policy Profile*	HomeOfficePolicy		
		> RLAN-POLIC	Y Maps: 0				
		Cancel			Apply	r to Device	-

#### 配置AP加入配置檔案以及與站點標籤的關聯

步驟1.導航到Configuration > Tags & Profiles > AP Join並選擇Add。輸入名稱。或者,您可以啟用 SSH以允許進行故障排除,並在以後不需要時將其禁用。

步驟2.選擇Configuration > Tags & Profiles > Tags。在「站點」頁籤中選擇「新增」。

步驟3.輸入站點標籤的名稱,取消選中「啟用本地站點」,然後從下拉選單中選擇「AP加入配置檔案」和「Flex配置檔案」(之前建立的)。然後應用到裝置。

Cisco Cisco Cata	alyst 9800-C	L Wireless Controll	er	Welcome admin	<b>* *</b>	9000	C Search APs and Clients Q	•
Q Search Menu Items	Configuratio	n * > Tags & Profiles *	> Tags					
Dashboard	+ Add							
Configuration	Site 7	Add Site Tag	Unexoficient					×
() Administration	O Tiago O defau	Name*	Enter Description					
C Licensing	<u> 4</u> 4	AP Join Profile	HomeOfficeAP					
Y Troubleshooting		Flex Profile Fabric Control Plane Na	HomeOffice_FlexPro					
		Enable Local Site	0					
		Cancel					Apply to Dev	vice

#### 將策略標籤和站點標籤附加到接入點

選項1:此選項要求您一次配置1個AP。轉至Configuration > Wireless > Access Points。選擇要移

## 動到家庭辦公室的AP,然後選擇家庭辦公室標籤。選擇更新並應用到裝置:

Cisco Cata	alyst 9800-CL Wireless Conti	roller	Welcome admin	C 0 0 0 4 8 7	Search APs and Clients Q	•
Q. Search Menu Items	Configuration * > Wireless * >	Edit AP				×
Dashboard     Monitoring >     Configuration >	All Access Points Number of AP(s): 1      AP Name      AP     Apdel     Apg120_4C.E77C C9120AXI-<	Admin Status AP Mode Operation Status Fabric Status	ENABLED	Boot Version IOS Version Mini IOS Version IP Config	1.1.2.4 17.3.1.9 0.0.0.0	
<ul> <li>Administration</li> <li>Licensing</li> <li>Troubleshooting</li> </ul>	5 GHz Radios	LED State LED Brightness Level CleanAir <u>NSI Key</u> Tags	ENABLED	CAPWAP Preferred Mode DHCP IPv4 Address Static IP (IPv4/IPv6) C Time Statistics Up Time	IPv4 192.168.100.29 0 0 days 5 hrs 6 mins 48 secs	
	<ul> <li>Dual-Band Radios</li> <li>Country</li> <li>LSC Provision</li> </ul>	Policy Site RF	HomeOfficePolicyTa	Controller Association Latence	cy 2 mins 41 secs	to Device

此外,還建議配置主控制器,以便AP知道WLC在部署到家庭辦公室後要訪問的IP/名稱。您可以直 接將編輯的AP轉到「高可用性」頁籤:

_			-
-			
-	 11.5	6 A 4	

General	Interfaces	High Availability	Inventory	BLE	ICap	Advanced
		Name	Mana	gement IP	Address (IP	v4/IPv6)
Primary Contro	allor eWL	C-9800-01	19	2.168.1.15	E.	
Secondary Co	ntroller					
Tertiary Contro	oller					
AP failover pri	ority Low	•				

Cancel Update & Apply to Device

選項2:此選項允許您同時配置多個AP。導航至Configuration > Wireless Setup > Advanced > Tag APs。選擇以前建立的標籤,然後選擇「應用到裝置」。

Cisco Catalyst 9800-CL Wireless Controller										Welcome admin 🛛 🚸 🤻 😫 💠 🔃 🛛 📿 💭 💭 💭 Search Min and Claress 🔍 👘								
	Seand Mena II	anna 👘	Configuration * >	Wireless Setup *	> Advance	ed		2										
			Start			Numb	Tag APa er of APs: 2	J										
٢				Tags & Prohles		Selec	ted Number of APs:	2 AP ~		AP ~	Admin -	Operation -			85 -			Hyperlocat
3			0	WLAW Profes	100	0	AP Name -	Model	AP MAC	Mode	Status	Status	Policy Tag ~	Site Tag -	Tag	Location ~	Country	Method
3			0	Policy Profile	100	0	AP3800_E1.3EB8	AP38021 K9	0027.e336.5660	Flex	Enabled	Registered	HomeOfficePolicyTag	HomeOficeS4e	if-tag	location	PT	Shared rad
en.			0	Policy Tag 🧳		0	AP9120_40.E77C	C9120AXI+ B	0064 e422.1790	Flex	Disabled	Registered	HomeOfficePolicyTag	TiagoOfficeSite	default- it-tag	default location		Dedicated (
						н	4 1 1	t0 🔹 Ilar										itarita C
×.			0	AP Join Profile				Tag APs					×					•
			0	Fiex Profile				Tags										
			0	Site Tag 🛷				Policy	HomeOffic	PolicyTa								
			0	RF Profile				Site	HomeOffice	Ste	•							
			ľ	1				RF	default-rf-t	ag .								
			0	10-100				Changing	AP Tag(s) will cause	associated	AP(s) to recor	nnect						
				Apply	-				_		C		-					
			0	Tag APs				D Cance	•		E	Apply to Devic	•					
			Done															

# 驗證

您可以通過GUI或CLI驗證設定。這是CLI中的結果配置:

```
1
ip access-list extended HomeOffice_ACL
1 deny ip any 192.168.1.0 0.0.0.255 log
2 permit ip any any log
1
wireless profile flex HomeOffice_FlexProfile
acl-policy HomeOffice_ACL
office-extend
1
wireless profile policy HomeOfficePolicy
no central association
aaa-override
flex split-mac-acl HomeOffice_ACL
flex vlan-central-switching
ipv4 dhcp required
vlan default
no shutdown
!
wireless tag site HomeOficeSite
flex-profile HomeOffice_FlexProfile
no local-site
1
wireless tag policy HomeOfficePolicyTag
wlan HomeOffice policy HomeOfficePolicy
wlan HomeOffice 5 HomeOffice
security wpa psk set-key ascii 0 xxxxxx
no security wpa akm dot1x
security wpa akm psk
no shutdown
1
ap 70db.98e1.3eb8
policy-tag HomeOfficePolicyTag
site-tag HomeOficeSite
1
ap c4f7.d54c.e77c
policy-tag HomeOfficePolicyTag
site-tag HomeOficeSite
正在檢查AP配置:
```

eWLC-9800-01#show ap name AP3800\_E1.3EB8 config general

Gateway IP Address : 192.168.1.254 . . . SSH State : Enabled Cisco AP Location : default location Site Tag Name : HomeOficeSite RF Tag Name : default-rf-tag Policy Tag Name : HomeOfficePolicyTag AP join Profile : HomeOfficeAP Flex Profile : HomeOffice\_FlexProfile Primary Cisco Controller Name : eWLC-9800-01 Primary Cisco Controller IP Address : 192.168.1.15 AP Mode : FlexConnect AP VLAN tagging state : Disabled AP VLAN tag : 0 CAPWAP Preferred mode : IPv4 CAPWAP UDP-Lite : Not Configured AP Submode : Not Configured Office Extend Mode : Enabled

•••

您可以直接連線到AP,也可以驗證配置:

AP3800\_E1.3EB8#show ip access-lists Extended IP access list HomeOffice\_ACL 1 deny ip any 192.168.1.0 0.0.0.255 2 permit ip any any

AP3800\_E1.3EB8#**show capwap client detailrcb** SLOT 0 Config

SSID : HomeOffice
Vlan Id : 0
Status : Enabled
...
otherFlags : DHCP\_REQUIRED VLAN\_CENTRAL\_SW
...
Profile Name : HomeOffice

• • •

```
AP3800_E1.3EB8#show capwap client config
AdminState : ADMIN_ENABLED(1)
Name : AP3800_E1.3EB8
Location : default location
Primary controller name : eWLC-9800-01
Primary controller IP : 192.168.1.15
Secondary controller name : c3504-01
Secondary controller IP : 192.168.1.14
Tertiary controller name :
ssh status : Enabled
ApMode : FlexConnect
ApSubMode : Not Configured
Link-Encryption : Enabled
OfficeExtend AP : Enabled
Discovery Timer : 10
Heartbeat Timer : 30
. . .
```

以下是顯示流量在本地交換的封包擷取範例。此處所做的測試是從使用IP 192.168.1.98的客戶端對 Google DNS伺服器執行「ping」操作,然後對192.168.1.254執行「ping」操作。您可以看到來源 為AP IP地址192.168.1.99的IP的ICMP傳送到Google DNS,因為AP在本地對流量執行NAT。沒有

#### icmp到192.168.1.254,因為流量在DTLS通道中加密,並且只看到應用資料幀。

	*Ethernet_yellowCable														
File	e Edit	View Go	Capture	Analyze Statistics	Telephony	Wireless	Tools Hel	lp							
4		🛞 📘 🔚		۹ 👄 🔿 🖣	<b>₫ Ξ Ξ</b>		墅								
	icmp														
No.	1	Delta	Source		Des	tination		L	ength	Info					Ext Tag Number
	825	0.000000	192.168.	1.99	8.8	.8.8			74	Echo	(ping)	request	id=0x0001,	seq=13/3328	
4-	831	0.018860	8.8.8.8		192	.168.1.99			74	Echo	(ping)	reply	id=0x0001,	seq=13/3328	
	916	0.991177	192.168.	1.99	8.8	.8.8			74	Echo	(ping)	request	id=0x0001,	seq=14/3584	
	920	0.018004	8.8.8.8		192	.168.1.99			74	Echo	(ping)	reply	id=0x0001,	seq=14/3584	
	951	1.009921	192.168.	1.99	8.8	.8.8			74	Echo	(ping)	request	id=0x0001,	seq=15/3840	
	954	0.017744	8.8.8.8		192	.168.1.99			74	Echo	(ping)	reply	id=0x0001,	seq=15/3840	
	1010	1.000264	192.168.	1.99	8.8	.8.8			74	Echo	(ping)	request	id=0x0001,	seq=16/4096	
L	1011	0.018267	8.8.8.8		192	.168.1.99			74	Echo	(ping)	reply	id=0x0001,	seq=16/4096	
>	Frame	825: 74 by	tes on wi	re (592 bits), 7	4 bytes cap	otured (592	bits) on	interface	0						
2	Etherr	let II, Src	: Cisco_e	1:3e:b8 (70:db:9	8:e1:3e:b8	, Dst: Tho	msonT_73:	:c5:1d (00:	26:44:7	3:c5:	10)				
2	> Internet Protocol Version 4, Src: 192.168.1.99, Dst: 8.8.8.8														

> Internet Control Message Protocol

**附註**:本地交換的流量由AP進行NAT轉換,因為在正常情況下,客戶端子網屬於Office網路 ,而家庭辦公室的本地裝置不知道如何到達客戶端子網。AP使用本地家庭辦公室子網中的AP IP地址轉換客戶端流量。

您可以訪問OEAP GUI,開啟瀏覽器並輸入URL中的AP IP地址。預設憑據為admin/admin,您必須 在初始登入時更改這些憑據。



#### 一旦登入,您就可以存取GUI:

cisco		EVENT_LOG NETWORK DIAGNOSTICS	Herb		Befresh Logo TELEWO	ut RKER
AP Info	Home: Summary					
0010	Conservation					
Client	General Information	102000 51 2500				
	AD ID Address	103 168 1 00				
	AP Mode	ElevConnect				
	AP MAC Address	70:db:98:e1:3e-b8				
	AP Uptime	0 days, 0 hours, 52 minutes, 25 second	Is			
	AP Software Version	17.3.1.9				
	WLC Info	[eWLC-9800-01][192.168.1.15]				
	CAPWAP Status	Run				
	WAN Gateway Status	Good				
	AD Statistics					
	Redia	Adapta Chatan	Chan (mu)	To Deven	Ohte Te (Out	
	2.4.642	Enabled	1/20//42	14dBm	22338/145430	
	5 GHz	Enabled	36/40MHz	18dBm	0/0	
	LAN Port Port No	Admin Status	Port Type	Link Status	Pkts In/Out	
	1	Disabled	Local	Blocked	0/0	
	2	Disabled	Local	Blocked	0/0	
	3	Disabled	Local	Blocked	0/0	
	4	Disabled	Local	Blocked	0/0	
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您可以訪問OEAP中的典型資訊,例如AP資訊、SSID和連線的客戶端:

ululu cisco	Номе	CONFIGURATION	EVENT_LOG	METWORK DIAGNOSTICS	Herb			Refresh Logout TELEWORKER
AP Info	Associatio	n						Show all
3310	Local Cline							
Client	Client MAC	Client MAC			WLAN SSID	Radio/LAN	Association Time	Pkts In/Out
	Corporate Client MAC	Clients	Client IP		WLAN SSID	Radio/LAN	Association Time	Pkts In/Out
	98:22:EF:D4:D1:09		192.168.1.98		HomeOffice	2.4GHz	00d:00h:00m:19s	46/2
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# 相關檔案

瞭解Catalyst 9800無線控制器上的FlexConnect

<u>適用於FlexConnect的分割通道</u>

在Catalyst 9800 WLC上設定OEAP和RLAN