

# WPA2-PSK和开放式验证与思科5760 WLC配置示例

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## 简介

本文解释使用的优点wi-fi在无线局域网(WLAN)的受保护的访问2 (WPA2)。本文为WPA2的实施提供两配置示例在WLAN：

- WPA2预先共享密钥(PSK)的配置
- 开放式验证的配置

## [先决条件](#)

## [要求](#)

Cisco 建议您了解以下主题：

- 无线受保护的访问(WPA)
- WLAN 安全解决方案

## 使用的组件

本文档中的信息基于以下软件和硬件版本：

- 一个Cisco 5700系列无线局域网控制器(WLC)有Cisco IOS XE软件的，版本3.3

- Cisco Aironet 3600系列轻量级接入点
- Microsoft Windows 7本地无线请求方

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

**注意：**使用[命令查找工具](#)（[仅限注册用户](#)）可获取有关本部分所使用命令的详细信息。

## 网络图

此图示显示网络图：

图1.网络图

## 与CLI的WPA2-PSK配置

此示例描述步骤使用命令行界面(CLI)为了配置监听为使用客户端的VLAN的DHCP。

VLAN20使用客户端，并且池在同样WLC配置。从思科5700 WLC的TenGigabitEthernet1/0/1连接到上行链路交换机。如果DHCP服务器配置在WLC之外的服务器或在一个外部DHCP服务器，您必须委托DHCP监听和传递信息。

```
ip device tracking
ip dhcp snooping vlan 12,20,30,40
ip dhcp snooping
!
ip dhcp pool vlan20
 network 20.20.20.0 255.255.255.0
 default-router 20.20.20.1

interface Vlan20
 ip address 20.20.20.1 255.255.255.0

interface TenGigabitEthernet1/0/1
 switchport trunk native vlan 12
 switchport mode trunk
 ip dhcp relay information trusted
 ip dhcp snooping trust

wlan wpa2psk 1 wpa2psk
 client vlan 20
 no security wpa akm dot1x
 security wpa akm psk set-key ascii 0 Cisco123
 no shutdown
```

**注意：**如果您的配置包含在PSK密码的一空间，则请使用格式“密码PSK”。同一个格式，如果也，配置与GUI应该使用。

## 示例

```
security wpa akm psk set-key ascii 0 "Cisco 123"
```

## 与GUI的WPA2-PSK配置

完成这些步骤为了配置在WLC GUI的—WPA2 PSK：

1. 导航对**Configuration>无线> WLAN > WLAN**，并且创建一新的WLAN：
2. 启用WPA2，并且映射它对所需的接口：
3. 点击**安全选项卡**，检查**WPA2策略复选框**，并且选择**AES**作为**WPA2加密**。在**验证密钥Mgmt**下拉列表中，请选择**PSK**。输入客户端将使用为了连接的PSK：

## 与CLI的开放式验证配置

这是示例如何使用CLI为了配置监听为使用客户端的VLAN的DHCP;在本例中，VLAN20使用客户端池在同样WLC配置。

从5760 WLC的TenGigabitEthernet1/0/1连接到上行链路交换机。如果有在一个外部DHCP服务器配置的在WLC之外的服务器或DHCP服务器，您必须委托DHCP监听和传递信息。

```
ip device tracking
ip dhcp snooping vlan 12,20,30,40
ip dhcp snooping
!
ip dhcp pool vlan20
 network 20.20.20.0 255.255.255.0
 default-router 20.20.20.1

interface Vlan20
 ip address 20.20.20.1 255.255.255.0

interface TenGigabitEthernet1/0/1
 switchport trunk native vlan 12
 switchport mode trunk
 ip dhcp relay information trusted
 ip dhcp snooping trust

wlan open 5 open
 client vlan VLAN0020
 no security wpa
 no security wpa akm dot1x
 no security wpa wpa2
 no security wpa wpa2 ciphers aes
 session-timeout 1800
 no shutdown
```

## 与GUI的开放式验证配置

此步骤描述如何配置在WLC GUI的开放式验证：

1. 导航对 **Configuration>无线> WLAN > WLAN** , 并且创建一新的WLAN :

2. 单击 **Security** 选项卡。在**Layer2**选项卡和**第3层**选项卡下 , 设置一切对无。这是配置结果的示例 :

## 验证

使用本部分可确认配置能否正常运行。

确认WPA2-PSK客户端连接 :

确认客户端连接对开放式验证 :

## 故障排除

本部分提供的信息可用于对配置进行故障排除。

注意 :

[命令输出解释程序工具 \( 仅限注册用户 \)](#) 支持某些 **show** 命令。请使用Output Interpreter Tool为了查看show命令输出分析。

使用 **debug** 命令之前 , 请参阅[有关 Debug 命令的重要信息](#)。

这是从有用的**调试**和**trace**命令的一个输出示例 :

```
debug client mac XXXX.XXXX.XXXX
```

```
Controller#sh debugging
```

```
Nova Platform:
```

```
dot11/state debugging is on
pem/events debugging is on
client/mac-addr debugging is on
dot11/detail debugging is on
mac/ filters[string 0021.5c8c.c761] debugging is on
dot11/error debugging is on
dot11/mobile debugging is on
pem/state debugging is on
```

```
set trace group-wireless-client filter mac XXXX.XXXX.XXXX
set trace wcm-dot1x event filter mac XXXX.XXXX.XXXX
set trace wcm-dot1x aaa filter mac XXXX.XXXX.XXXX
set trace aaa wireless events filter mac XXXX.XXXX.XXXX
set trace access-session core sm filter mac XXXX.XXXX.XXXX
set trace access-session method dot1x filter XXXX.XXXX.XXXX
```

```
*Sep 1 05:55:01.321: 0021.5C8C.C761 Association received from mobile on AP
C8F9.F983.4260 1 wcm: i.D^Iw for client
*Sep 1 05:55:01.321: 0021.5C8C.C761 qos upstream policy is unknown and
```

downstream policy is unknown 1 wcm: r client  
\*Sep 1 05:55:01.321: 0021.5C8C.C761 apChanged 0 wlanChanged 1 mscb ipAddr  
20.20.20.3, apf RadiusOverride 0x0, numIPv6Addr=0 1 wcm: •nJ^Iwy\_status 0  
attr len^G\$8\227v^K  
\*Sep 1 05:55:01.321: 0021.5C8C.C761 Applying WLAN policy on MSCB. 1 wcm:  
ipAddr 20.20.20.3, apf RadiusOverride 0x0, numIPv6Addr=0  
\*Sep 1 05:55:01.321: 0021.5C8C.C761 Scheduling deletion of Mobile Station: 1  
wcm: (callerId: 50) in 1 seconds  
\*Sep 1 05:55:01.321: 0021.5C8C.C761 Disconnecting client due to switch of  
WLANS from 6(wep) to 5(open) 1 wcm:  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 apfMsExpireCallback (apf\_ms.c: 1 wcm: 664)  
Expiring Mobile!  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 apfMsExpireMobileStation (apf\_ms.c: 1 wcm:  
6953) Changing state for mobile 0021.5C8C.C761 on AP C8F9.F983.4260 from  
Associated to Disassociated  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 Sent Deauthenticate to mobile on BSSID  
C8F9.F983.4260 slot 1(caller apf\_ms.c: 1 wcm: 7036)  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 apfMsExpireMobileStation (apf\_ms.c: 1 wcm:  
7092) Changing state for mobile 0021.5C8C.C761 on AP C8F9.F983.4260 from  
Disassociated to Idle  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 20.20.20.3 RUN (20) Deleted mobile LWAPP  
rule on AP [ C8F9.F983.4260 ] 1 wcm: 5C8C.C761 on AP C8F9.F983.4260 from  
Disassociated to Idle  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 20.20.20.3 RUN (20) FastSSID for the  
client [ C8F9.F983.4260 ] NOTENABLED 1 wcm: C.C761 on AP C8F9.F983.4260  
from Disassociated to Idle  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 Incrementing the Reassociation Count 1 for  
client (of interface VLAN0020) 1 wcm: D  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 Clearing Address 20.20.20.3 on mobile 1  
wcm: for client (of interface VLAN0020)  
\*Sep 1 05:55:02.193: PEM rcv processing msg Del SCB(4) 1 wcm: 0.20.3 on  
mobile  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 20.20.20.3 RUN (20) Skipping TMP rule  
add 1 wcm: lient (of interface VLAN0020)  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 20.20.20.3 RUN (20) Change state to  
DHCP\_REQD (7) last state RUN (20) 1 wcm:  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Client 1 m\_vlan 20  
Radio iif id 0xbfcfdc00000003a bssid iif id 0x8959800000004a, bssid  
C8F9.F983.4260  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 WCDB\_AUTH: 1 wcm: Adding opt82 len 0  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Suppressing SPI  
(client pending deletion) pemstate 7 state LEARN\_IP(2) vlan 20 client\_id  
0xac70800000004b mob=Local(1) ackflag 2 dropd 0, delete 1  
\*Sep 1 05:55:02.193: 0021.5C8C.C761 Sending SPI spi\_epm\_epm\_terminate\_session  
successfull 1 wcm: pemstate 7 state LEARN\_IP(2) vlan 20 client\_id  
0xac70800000004b mob=Local(1) ackflag 2 dropd 0, delete 1  
\*Sep 1 05:55:02.194: 0021.5C8C.C761 Sending SPI spi\_epm\_epm\_terminate\_session  
successfull 1 wcm: pemstate 7 state LEARN\_IP(2) vlan 20 client\_id  
0xac70800000004b mob=Local(1) ackflag 2 dropd 0, delete 1  
\*Sep 1 05:55:02.194: 0021.5C8C.C761 Deleting wireless client; Reason code 0,  
Preset 1, AAA cause 1 1 wcm: 7 state LEARN\_IP(2) vlan 20 client\_id  
0xac70800000004b mob=Local(1) ackflag 2 dropd 0, delete 1  
\*Sep 1 05:55:02.194: 0021.5C8C.C761 WCDB\_DEL: 1 wcm: Successfully sent  
\*Sep 1 05:55:02.194: 0021.5C8C.C761 Expiring mobile state delete 1 wcm: on  
code 0, Preset 1, AAA cause 1  
\*Sep 1 05:55:02.194: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) Handling pemDelScb  
Event skipping delete 1 wcm: state LEARN\_IP(2) vlan 20 client\_id  
0xac70800000004b mob=Local(1) ackflag 2 dropd 0, delete 1  
\*Sep 1 05:55:02.197: 0021.5C8C.C761 WCDB SPI response msg handler client code  
1 mob state 1 1 wcm: g delete  
\*Sep 1 05:55:02.197: 0021.5C8C.C761 apfProcessWcdbClientDelete: 1 wcm: Delete  
ACK from WCDB.  
\*Sep 1 05:55:02.197: 0021.5C8C.C761 WCDB\_DELACK: 1 wcm: wcdbAckRecvdFlag  
updated

\*Sep 1 05:55:02.197: 0021.5C8C.C761 WCDB\_DELACK: 1 wcm: Client IIF Id dealloc  
SUCCESS w/ 0xac70800000004b.

\*Sep 1 05:55:02.197: 0021.5C8C.C761 Invoked platform delete and cleared handle  
1 wcm: w/ 0xac70800000004b.

\*Sep 1 05:55:02.197: 0021.5C8C.C761 Deleting mobile on AP C8F9.F983.4260 (1)  
1 wcm: w/ 0xac70800000004b.

\*Sep 1 05:55:02.197: 0021.5C8C.C761 Unlinked and freed mscb 1 wcm:  
8F9.F983.4260 (1)

\*Sep 1 05:55:02.197: WCDB\_IIF: 1 wcm: Ack Message ID: 0xac70800000004b code  
1003

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Adding mobile on LWAPP AP C8F9.F983.4260  
(1) 1 wcm: xac7080000.D^Iwb.

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Creating WL station entry for client -  
rc 0 1 wcm:

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Association received from mobile on AP  
C8F9.F983.4260 1 wcm: 0.D^Iwb.

\*Sep 1 05:55:02.379: 0021.5C8C.C761 qos upstream policy is unknown and  
downstream policy is unknown 1 wcm:

\*Sep 1 05:55:02.379: 0021.5C8C.C761 apChanged 0 wlanChanged 0 mscb ipAddr  
0.0.0.0, apf RadiusOverride 0x0, numIPv6Addr=0 1 wcm: \2105H\*nJ^Iwlient\_id  
0xac708000^G\$8\227v^K

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Applying WLAN policy on MSCB. 1 wcm:  
ipAddr 0.0.0.0, apf RadiusOverride 0x0, numIPv6Addr=0

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Applying WLAN ACL policies to client 1  
wcm: 0.0.0.0, apf RadiusOverride 0x0, numIPv6Addr=0

\*Sep 1 05:55:02.379: 0021.5C8C.C761 No Interface ACL used for Wireless client  
in WCM(NGWC) 1 wcm: usOverride 0x0, numIPv6Addr=0

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Applying site-specific IPv6 override for  
station 0021.5C8C.C761 - vapId 5, site 'default-group', interface  
'VLAN0020' 1 wcm:

\*Sep 1 05:55:02.379: 0021.5C8C.C761 Applying local bridging Interface Policy  
for station 0021.5C8C.C761 - vlan 20, interface 'VLAN0020' 1 wcm: erface  
'VLAN0020'

\*Sep 1 05:55:02.379: 0021.5C8C.C761 STA - rates (8): 1 wcm:  
140 18 152 36 176 72 96 108 0 0 0 0 0 0 0

\*Sep 1 05:55:02.379: 0021.5C8C.C761 new capwap\_wtp\_iif\_id b6818000000038,  
sm capwap\_wtp\_iif\_id 0 1 wcm: 8C.C761 - vlan 20, interface 'VLAN0020'

\*Sep 1 05:55:02.379: 0021.5C8C.C761 WCDB\_ADD: 1 wcm: Radio IIFID  
0xbfcfc00000003a, BSSID IIF Id 0xbb30c000000046, COS 4

\*Sep 1 05:55:02.379: Load Balancer: 1 wcm: Success, Resource allocated are:  
Active Switch number: 1, Active Asic number : 0, Reserve Switch number 0  
Reserve Asic number 0. AP Asic num 0

\*Sep 1 05:55:02.379: 0021.5C8C.C761 WCDB\_ADD: 1 wcm: Anchor Sw 1, Doppler 0

\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_ALLOCATE: 1 wcm: Client IIF Id alloc  
SUCCESS w/ client 8e7bc00000004d (state 0).

\*Sep 1 05:55:02.380: 0021.5C8C.C761 iifid Clearing Ack flag 1 wcm: F Id alloc  
SUCCESS w/ client 8e7bc00000004d (state 0).

\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_ADD: 1 wcm: Adding opt82 len 0

\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_ADD: 1 wcm: Cleaering Ack flag

\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_ADD: 1 wcm: ssid open bssid  
C8F9.F983.4260 vlan 20 auth=ASSOCIATION(0) wlan(ap-group/global) 5/5  
client 0 assoc 1 mob=Unassoc(0) radio 1 m\_vlan 20 ip 0.0.0.0 src  
0xb6818000000038 dst 0x0 cid 0x8e7bc00000004d glob rsc id 14dhcpsrv  
0.0.0.0 ty

\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_ADD: 1 wcm: mscb iifid  
0x8e7bc00000004d msinfo iifid 0x0

\*Sep 1 05:55:02.380: 0021.5C8C.C761 0.0.0.0 START (0) Initializing policy 1  
wcm: info iifid 0x0

\*Sep 1 05:55:02.380: 0021.5C8C.C761 0.0.0.0 START (0) Change state to  
AUTHCHECK (2) last state AUTHCHECK (2) 1 wcm: -group/global) 5/5 client 0  
assoc 1 mob=Unassoc(0) radio 1 m\_vlan 20 ip 0.0.0.0 src 0xb6818000000038  
dst 0x0 cid 0x8e7bc00000004d glob rsc id 14dhcpsrv 0.0.0.0 ty

\*Sep 1 05:55:02.380: 0021.5C8C.C761 0.0.0.0 AUTHCHECK (2) Change state to  
L2AUTHCOMPLETE (4) last state L2AUTHCOMPLETE (4) 1 wcm: 5/5 client 0 assoc

1 mob=Unassoc(0) radio 1 m\_vlan 20 ip 0.0.0.0 src 0xb6818000000038 dst 0x0  
cid 0x8e7bc00000004d glob rsc id 14dhcpsrv 0.0.0.0 ty  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Client 1 m\_vlan 20  
Radio iif id 0xbfcfdc00000003a bssid iif id 0xbb30c000000046, bssid  
C8F9.F983.4260  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_AUTH: 1 wcm: Adding opt82 len 0  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_LLM: 1 wcm: NoRun Prev Mob 0, Curr  
Mob 0 llmReq 1, return False  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 auth state 1 mob state 0 setWme 0 wme 1  
roam\_sent 0 1 wcm: rn False  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: auth=L2\_AUTH(1) vlan  
20 radio 1 client\_id 0x8e7bc00000004d mobility=Unassoc(0) src\_int  
0xb6818000000038 dst\_int 0x0 ackflag 0 reassoc\_client 0 llm\_notif 0 ip  
0.0.0.0 ip\_learn\_type UNKNOWN  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: In L2 auth but l2ack  
waiting lflag not set,so set  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 0.0.0.0 L2AUTHCOMPLETE (4) DHCP Not  
required on AP C8F9.F983.4260 vapId 5 apVapId 5for this client 1 wcm:  
6818000000038 dst\_int 0x0 ackflag 0 reassoc\_client 0 llm\_notif 0 i\$=6v.0.0.0  
it^\_Dv^\7HnP6v^D6H15Ht^\_Dv\$6H8^ r^D6H>&5v8^ r^D6H>&5v^D6Ht^M^Lw^\7H8^ r  
\*Sep 1 05:55:02.380: WCDB\_IIF: 1 wcm: Ack Message ID: 0x8e7bc00000004d code  
1001  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 Not Using WMM Compliance code qosCap 00 1  
wcm: quired on AP C8F9.F983.4260 vapId 5 apVapId 5for this client  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 0.0.0.0 L2AUTHCOMPLETE (4) Plumbed  
mobile LWAPP rule on AP C8F9.F983.4260 vapId 5 apVapId 5 1 wcm: client  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 0.0.0.0 L2AUTHCOMPLETE (4) Change state  
to DHCP\_REQD (7) last state DHCP\_REQD (7) 1 wcm: apVapId 5  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Client 1 m\_vlan 20  
Radio iif id 0xbfcfdc00000003a bssid iif id 0xbb30c000000046, bssid  
C8F9.F983.4260  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_AUTH: 1 wcm: Adding opt82 len 0  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Suppressing SPI  
(Mobility state not known) pemstate 7 state LEARN\_IP(2) vlan 20 client\_id  
0x8e7bc00000004d mob=Unassoc(0) ackflag 1 dropd 0  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 Incrementing the Reassociation Count 1 for  
client (of interface VLAN0020) 1 wcm: EARN\_IP(2) vlan 20 client\_id  
0x8e7bc00000004d mob=Unassoc(0) ackflag 1 dropd 0  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 apfPemAddUser2 (apf\_policy.c: 1 wcm: 161)  
Changing state for mobile 0021.5C8C.C761 on AP C8F9.F983.4260 from Idle  
to Associated  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 Scheduling deletion of Mobile Station: 1  
wcm: (callerId: 49) in 1800 seconds  
\*Sep 1 05:55:02.380: 0021.5C8C.C761 Ms Timeout = 1800, Session Timeout = 1800  
1 wcm: llerId: 49) in 1800 seconds  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 Sending Assoc Response to station on BSSID  
C8F9.F983.4260 (status 0) ApVapId 5 Slot 1 1 wcm: .F983.4260 from Idle to  
Associated  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 apfProcessAssocReq (apf\_80211.c: 1 wcm:  
5260) Changing state for mobile 0021.5C8C.C761 on AP C8F9.F983.4260  
from Associated to Associated  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) pemAdvanceState2:  
1 wcm: MOBILITY-INCOMPLETE with state 7.  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) pemAdvanceState2:  
1 wcm: MOBILITY-INCOMPLETE with state 7.  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) pemAdvanceState2:  
1 wcm: MOBILITY-COMPLETE with state 7.  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) State Update from  
Mobility-Incomplete to Mobility-Complete, mobility role=Local, client  
state=APF\_MS\_STATE\_ASSOCIATED 1 wcm: 1 dropd 0  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) pemAdvanceState2  
3611, Adding TMP rule 1 wcm: o Mobility-Complete, mobility role=Local,  
client state=APF\_MS\_STATE\_ASSOCIATED  
\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) Adding Fast Path

rule on AP C8F9.F983.4260 , slot 1 802.1P = 0 1 wcm: role=Local, client state=APF\_MS\_STATE\_ASSOCIATED

\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0 DHCP\_REQD (7) Successfully plumbed mobile rule 1 wcm: F9.F983.4260 , slot 1 802.1P = 0^M

\*Sep 1 05:55:02.381: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Client 1 m\_vlan 20 Radio iif id 0xbfcd00000003a bssid iif id 0xbb30c000000046, bssid C8F9.F983.4260

\*Sep 1 05:55:02.381: 0021.5C8C.C761 WCDB\_AUTH: 1 wcm: Adding opt82 len 0

\*Sep 1 05:55:02.381: 0021.5C8C.C761 WCDB\_LLM: 1 wcm: NoRun Prev Mob 0, Curr Mob 1 llmReq 1, return False

\*Sep 1 05:55:02.381: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Suppressing SPI (ACK message not recvd) pemstate 7 state LEARN\_IP(2) vlan 20 client\_id 0x8e7bc00000004d mob=Local(1) ackflag 1 dropd 1

\*Sep 1 05:55:02.381: 0021.5C8C.C761 Error updating wcdb on mobility complete 1 wcm: not recvd) pemstate 7 state LEARN\_IP(2) vlan 20 client\_id 0x8e7bc00000004d mob=Local(1) ackflag 1 dropd 1

\*Sep 1 05:55:02.381: PEM recv processing msg Epm spi response(12) 1 wcm: complete

\*Sep 1 05:55:02.381: 0021.5C8C.C761 aaa attribute list length is 79 1 wcm: complete

\*Sep 1 05:55:02.381: 0021.5C8C.C761 Sending SPI spi\_epm\_epm\_session\_create successfull 1 wcm: ) pemstate 7 state LEARN\_IP(2) vlan 20 client\_id 0x8e7bc00000004d mob=Local(1) ackflag 1 dropd 1

\*Sep 1 05:55:02.381: PEM recv processing msg Add SCB(3) 1 wcm: pm\_session\_create successfull

\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0, auth\_state 7 mmRole Local !!! 1 wcm: successfull

\*Sep 1 05:55:02.381: 0021.5C8C.C761 0.0.0.0, auth\_state 7 mmRole Local, updating wcdb not needed 1 wcm: 7 state LEARN\_IP(2) vlan 20 client\_id 0x8e7bc00000004d mob=Local(1) ackflag 1 dropd 1

\*Sep 1 05:55:02.381: 0021.5C8C.C761 Tclas Plumb needed: 1 wcm: 0

\*Sep 1 05:55:02.384: EPM: 1 wcm: Session create resp - client handle 8e7bc00000004d session b8000020

\*Sep 1 05:55:02.384: EPM: 1 wcm: Netflow session create resp - client handle 8e7bc00000004d sess b8000020

\*Sep 1 05:55:02.384: PEM recv processing msg Epm spi response(12) 1 wcm: le 8e7bc00000004d sess b8000020

\*Sep 1 05:55:02.384: 0021.5C8C.C761 Received session\_create\_response for client handle 40105511256850509 1 wcm: LEARN\_IP(2) vlan 20 client\_id 0x8e7bc00000004d mob=Local(1) ackflag 1 dropd 1

\*Sep 1 05:55:02.384: 0021.5C8C.C761 Received session\_create\_response with EPM session handle 3087007776 1 wcm:

\*Sep 1 05:55:02.384: 0021.5C8C.C761 Send request to EPM 1 wcm: ate\_response with EPM session handle 3087007776

\*Sep 1 05:55:02.384: 0021.5C8C.C761 aaa attribute list length is 5 1 wcm: e with EPM session handle 3087007776

\*Sep 1 05:55:02.384: 0021.5C8C.C761 Sending Activate request for session handle 3087007776 successful 1 wcm: 6

\*Sep 1 05:55:02.384: 0021.5C8C.C761 Post-auth policy request sent! Now wait for post-auth policy ACK from EPM 1 wcm: N\_IP(2) vlan 20 client\_id 0x8e7bc00000004d mob=Local(1) ackflag 1 dropd 1

\*Sep 1 05:55:02.384: 0021.5C8C.C761 WCDB SPI response msg handler client code 0 mob state 0 1 wcm: licy ACK from EPM

\*Sep 1 05:55:02.384: 0021.5C8C.C761 WcdbClientUpdate: 1 wcm: L2 Auth ACK from WCDB

\*Sep 1 05:55:02.384: 0021.5C8C.C761 WCDB\_L2ACK: 1 wcm: wcdbAckRecvdFlag updated

\*Sep 1 05:55:02.384: 0021.5C8C.C761 WCDB\_CHANGE: 1 wcm: Client 1 m\_vlan 20 Radio iif id 0xbfcd00000003a bssid iif id 0xbb30c000000046, bssid C8F9.F983.4260

\*Sep 1 05:55:02.384: 0021.5C8C.C761 WCDB\_AUTH: 1 wcm: Adding opt82 len 0

\*Sep 1 05:55:02.384: 0021.5C8C.C761 WCDB\_LLM: 1 wcm: NoRun Prev Mob 0, Curr Mob 1 llmReq 1, return False

\*Sep 1 05:55:02.385: 0021.5C8C.C761 auth state 2 mob state 1 setWme 0 wme 1



```
roam_sent 0 1 wcm: rn False
*Sep 1 05:55:02.385: 0021.5C8C.C761 WCDB_CHANGE: 1 wcm: auth=LEARN_IP(2) vlan
20 radio 1 client_id 0x8e7bc00000004d mobility=Local(1) src_int
0xb6818000000038 dst_int 0x0 ackflag 2 reassoc_client 0 llm_notif 0 ip
0.0.0.0 ip_learn_type UNKNOWN
*Sep 1 05:55:02.385: EPM: 1 wcm: Init feature, client handle 8e7bc00000004d
session b8000020 authz ec00000e
*Sep 1 05:55:02.385: EPM: 1 wcm: Activate feature client handle
8e7bc00000004d sess b8000020 authz ec00000e
*Sep 1 05:55:02.385: PEM rcv processing msg Epm spi response(12) 1 wcm: 004d
sess b8000020 authz ec00000e
*Sep 1 05:55:02.385: 0021.5C8C.C761 Received activate_features_resp for client
handle 40105511256850509 1 wcm: 004d mobility=Local(1) src_int
0xb6818000000038 dst_int 0x0 ackflag 2 reassoc_client 0 llm_notif 0
ip$=6v0.0.0 ipt^_Dv^\7HnP6v^D6H15Ht^_Dv$6H8^ r^D6H>&5v8^
r^D6H>&5v^D6Ht^M^Lw^\7H8^ r
*Sep 1 05:55:02.385: 0021.5C8C.C761 Received activate_features_resp for EPM
session handle 3087007776 1 wcm: 9
*Sep 1 05:55:02.385: EPM: 1 wcm: Policy enforcement - client handle
8e7bc00000004d session 2800000e authz ec00000e
*Sep 1 05:55:02.385: EPM: 1 wcm: Netflow policy enforcement - client handle
8e7bc00000004d sess 2800000e authz ec00000e msg_type 0 policy_status 0 attr
len 0
*Sep 1 05:55:02.385: PEM rcv processing msg Epm spi response(12) 1 wcm: e
8e7bc00000004d sess 2800000e authz ec00000e msg_type 0 policy_status 0 attr
len 0
*Sep 1 05:55:02.385: 0021.5C8C.C761 Received policy_enforcement_response for
client handle 40105511256850509 1 wcm: 00e msg_type 0 policy_status 0 attr
len 0
*Sep 1 05:55:02.385: 0021.5C8C.C761 Received policy_enforcement_response for
EPM session handle 671088654 1 wcm: 09
*Sep 1 05:55:02.385: 0021.5C8C.C761 Received response for
_EPM_SPI_ACTIVATE_FEATURES request sent for client 1 wcm: 00e msg_type 0
policy_status 0 attr len 0
*Sep 1 05:55:02.385: 0021.5C8C.C761 Received _EPM_SPI_STATUS_SUCCESS for
request sent for client 1 wcm: for client
*Sep 1 05:55:02.385: 0021.5C8C.C761 Post-auth policy ACK recvd from EPM, unset
flag on MSCB 1 wcm: ient
*Sep 1 05:55:02.400: 0021.5C8C.C761 WCDB_IP_BIND: 1 wcm: w/ IPv4 20.20.20.3
ip_learn_type DHCP add_delete 1,options_length 0
*Sep 1 05:55:02.400: 0021.5C8C.C761 WcdbClientUpdate: 1 wcm: IP Binding from
WCDB ip_learn_type 1, add_or_delete 1
*Sep 1 05:55:02.400: 0021.5C8C.C761 IPv4 Addr: 1 wcm: 20:20:20:3
*Sep 1 05:55:02.400: 0021.5C8C.C761 MS got the IP, resetting the Reassociation
Count 0 for client 1 wcm: _delete 1
*Sep 1 05:55:02.400: 0021.5C8C.C761 20.20.20.3 DHCP_REQD (7) Change state to
RUN (20) last state RUN (20) 1 wcm: length 0
*Sep 1 05:55:02.400: 0021.5C8C.C761 WCDB_CHANGE: 1 wcm: Client 1 m_vlan 20
Radio iif id 0xbfc0c00000003a bssid iif id 0xbb30c000000046, bssid
C8F9.F983.4260
*Sep 1 05:55:02.400: 0021.5C8C.C761 WCDB_AUTH: 1 wcm: Adding opt82 len 0
*Sep 1 05:55:02.401: 0021.5C8C.C761 WCDB_LLM: 1 wcm: prev Mob state 1 curr
Mob State 1 llReq flag 0
*Sep 1 05:55:02.401: 0021.5C8C.C761 auth state 4 mob state 1 setWme 0 wme 1
roam_sent 0 1 wcm: g 0
*Sep 1 05:55:02.401: 0021.5C8C.C761 WCDB_CHANGE: 1 wcm: auth=RUN(4) vlan 20
radio 1 client_id 0x8e7bc00000004d mobility=Local(1) src_int
0xb6818000000038 dst_int 0x0 ackflag 2 reassoc_client 0 llm_notif 0 ip
20.20.20.3 ip_learn_type DHCP
*Sep 1 05:55:02.401: 0021.5C8C.C761 20.20.20.3 RUN (20) Reached
PLUMBFASPATH: 1 wcm: from line 4430
*Sep 1 05:55:02.401: 0021.5C8C.C761 20.20.20.3 RUN (20) Replacing Fast Path
rule on AP C8F9.F983.4260 , slot 1 802.1P = 0
1 wcm: 0xb6818000000038 dst_int 0x0 ackflag 2 reassoc_client 0 llm_notif 0 ip
```

20.\$=6v0.3 ip\_lt^\_Dv^\7HnP6v^D6H15Ht^\_Dv\$6H8^ r^D6H>&5v8^  
r^D6H>&5v^D6Ht^M^Lw^\7H8^ r  
\*Sep 1 05:55:02.401: 0021.5C8C.C761 20.20.20.3 RUN (20) Successfully plumbed  
mobile rule 1 wcm: C8F9.F983.4260 , slot 1 802.1P = 0^M  
\*Sep 1 05:55:02.401: 0021.5C8C.C761  
Sending IPv4 update to Controller 10.105.135.176 1 wcm: e  
\*Sep 1 05:55:02.401: 0021.5C8C.C761 Assigning Address 20.20.20.3 to mobile 1  
wcm: 05.135.176  
\*Sep 1 05:55:02.401: PEM recv processing msg Add SCB(3) 1 wcm: 20.20.3 to  
mobile  
\*Sep 1 05:55:02.401: 0021.5C8C.C761 20.20.20.3, auth\_state 20 mmRole Local !!!  
1 wcm: 135.176  
\*Sep 1 05:55:02.401: 0021.5C8C.C761 20.20.20.3, auth\_state 20 mmRole Local,  
updating wcdb not needed 1 wcm: 3.4260 , slot 1 802.1P = 0^M  
\*Sep 1 05:55:02.401: 0021.5C8C.C761 Tclas Plumb needed: 1 wcm: 0  
\*Sep 1 05:55:20.083: 0021.5C8C.C761  
Client stats update: 1 wcm: Time now in sec 1378014920, Last Acct Msg Sent at  
1378014902 sec