

# WPA2-PSK et authentification ouverte avec l'exemple de configuration de Cisco 5760 WLC

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## Introduction

Ce document explique les avantages de l'utilisation de l'accès protégé par Wi-Fi 2 (WPA2) dans un RÉSEAU LOCAL Sans fil (WLAN). Le document fournit deux exemples de configuration pour l'implémentation du WPA2 sur un WLAN :

- Configuration d'une clé WPA2 pré-partagée (PSK)
- Configuration de l'authentification ouverte

## Conditions préalables

### Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- Protected Access Sans fil (WPA)
- Solutions de sécurité WLAN

### [Composants utilisés](#)

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- Un contrôleur LAN Sans fil de gamme Cisco 5700 (WLC) avec le logiciel du Cisco IOS® XE, version 3.3
- Point d'accès léger de gamme 3600 de Cisco Aironet
- Suppliant de radio d'indigène de Microsoft Windows 7

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

## Configurez

Remarque: Utilisez l'[Outil de recherche de commande](#) (clients [enregistrés](#) seulement) pour obtenir plus d'informations sur les commandes utilisées dans cette section.

### [Diagramme du réseau](#)

Cette illustration affiche le schéma de réseau :

Schéma de réseau du schéma 1.

### Configuration WPA2-PSK avec le CLI

Cet exemple décrit la procédure pour employer l'interface de ligne de commande (CLI) afin de configurer la surveillance DHCP pour les VLAN qui sont utilisés pour des clients.

VLAN20 est utilisé pour des clients et le groupe est configuré sur le même WLC. Le TenGigabitEthernet1/0/1 de Cisco 5700 WLC est connecté au commutateur de liaison ascendante. Si le serveur DHCP est configuré sur le serveur au delà du WLC ou sur un serveur DHCP externe, vous devez faire confiance à la surveillance DHCP et retransmettre les informations.

```
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
```

Remarque: Si votre configuration contient un espace dans le mot de passe PSK, alors utilisez le format le « mot de passe PSK ». Le même format devrait être utilisé si vous configurez avec le GUI également.

## Exemple

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

## Configuration WPA2-PSK avec le GUI

Terminez-vous ces étapes afin de configurer un WPA2 PSK dans le GUI WLC :

1. Naviguez vers la **configuration** > la **radio** > le **WLAN** > les **WLAN**, et créez un nouveau WLAN :
2. Activez le WPA2, et tracez-le à l'interface désirée :
3. Cliquez sur l'**onglet Sécurité**, vérifiez la case à cocher de la **stratégie WPA2**, et sélectionnez **AES** comme **chiffrement WPA2**. Dans de **clé la** liste déroulante **authentique gestion, PSK** choisi. Écrivez le PSK que le client emploiera afin de se connecter :

## Ouvrez la configuration d'authentification avec le CLI

C'est un exemple de la façon employer le CLI afin de configurer la surveillance DHCP pour les VLAN qui sont utilisés pour des clients ; dans cet exemple, VLAN20 est utilisé pour des clients. Le groupe est configuré sur le même WLC.

TenGigabitEthernet1/0/1 des 5760 WLC est connecté au commutateur de liaison ascendante. Si vous avez le serveur DHCP configuré sur le serveur au delà du WLC ou sur un serveur DHCP externe, vous devez faire confiance à la surveillance DHCP et retransmettre les informations.

```
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
```

## Ouvrez la configuration d'authentification avec le GUI

Cette procédure décrit comment configurer l'authentification ouverte dans le GUI WLC :

1. Naviguez vers la **configuration** > la **radio** > le **WLAN** > les **WLAN**, et créez un nouveau WLAN :
2. Cliquez sur l'onglet **Security**. Sous l'onglet **Layer2** et l'onglet **Layer3**, placez tout à aucun.  
C'est un exemple des résultats de configuration :

## Vérifiez

Référez-vous à cette section pour vous assurer du bon fonctionnement de votre configuration.

Confirmez que le client WPA2-PSK est connecté :

Confirmez que le client est connecté pour ouvrir l'authentification :

## Dépannez

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Remarques :

[L'Output Interpreter Tool](#) (clients [enregistrés](#) seulement) prend en charge certaines **commandes show**. Utilisez l'Output Interpreter Tool afin de visualiser une analyse de sortie de commande show.

Référez-vous aux [informations importantes sur les commandes de débogage](#) avant d'utiliser les commandes de **débogage**.

C'est un exemple de sortie d'utile **mettent au point** et des **commandes trace** :

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  
\*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  
0xbfcdc00000003a, 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 lfag 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:  
68180000000038 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 0xbfcfdc00000003a 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 0xbfcfdc00000003a 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^D6Hl5Ht^\_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 0xbfcfdc00000003a 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^D6Hl5Ht^\_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