在非SDA EWC-Switch(C9800-SW)上配置和板载AP

目录

简介

本文档介绍在非SDA部署（没有正在使用的CIsco DNA中心）中，在Catalyst 9000(Catalyst 9K)交换机(EWC-Switch)上加入并调配带有嵌入式无线控制器的接入点(AP)的过程。

先决条件

要求

您需要执行以下必备条件：

- 将无线子软件包安装在将用作无线LAN控制器(WLC)的Catalyst 9K交换机上。
- 确保环回接口已配置，以便将其配置为无线管理接口(WMI)。
- 确保启用对Catalyst 9K交换机的GUI访问，因为建议通过GUI进行配置。

注：仅17.3.X版本支持非SDA部署上的EWC-Switch。

使用的组件

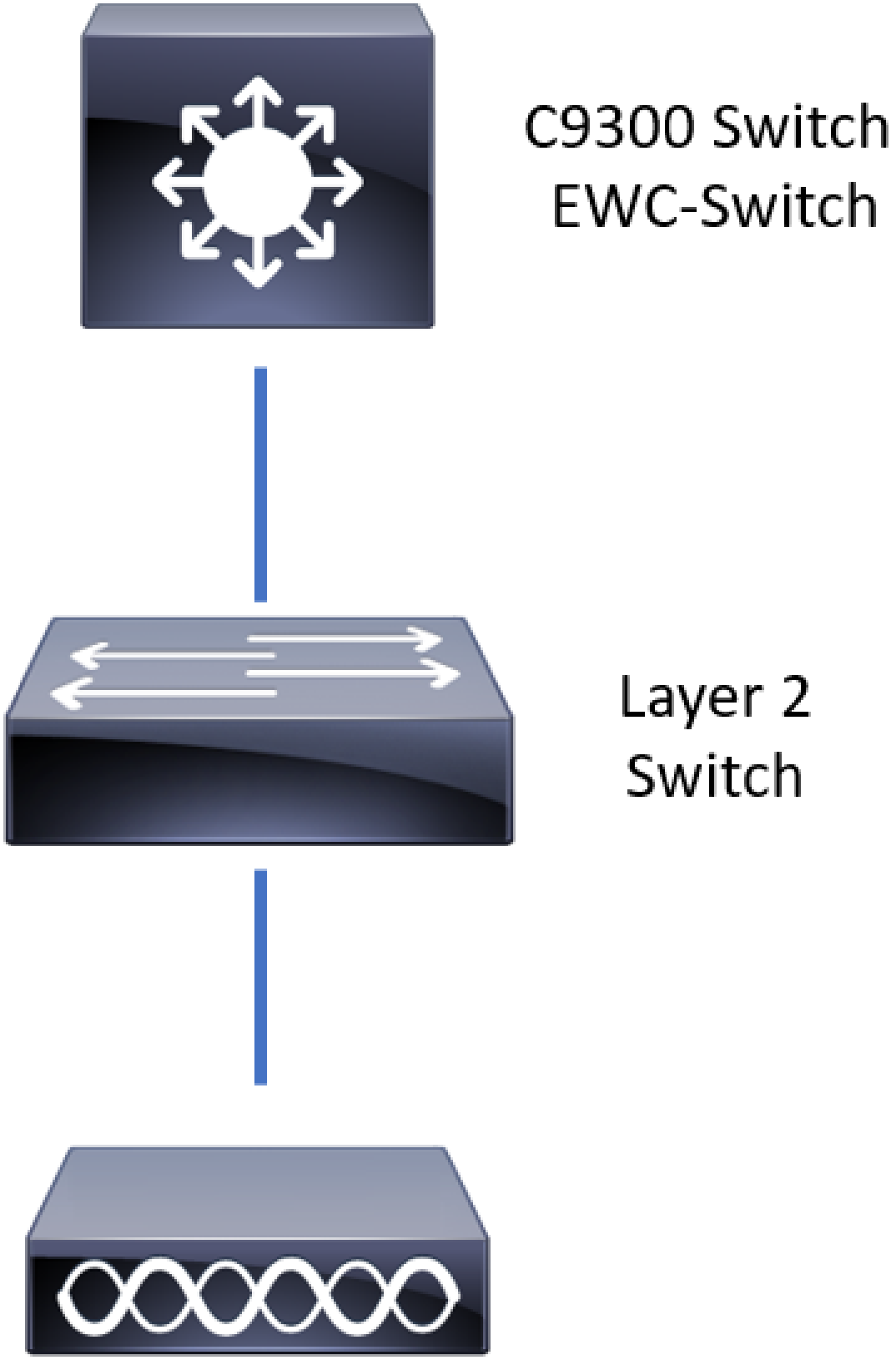
本文档中的信息基于以下软件和硬件版本：

- C9300-24P交换机，Cisco IOS® XE版本17.3.4
- 版本17.3.4的无线子包
- C9120-AX AP

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。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

配置

网络图

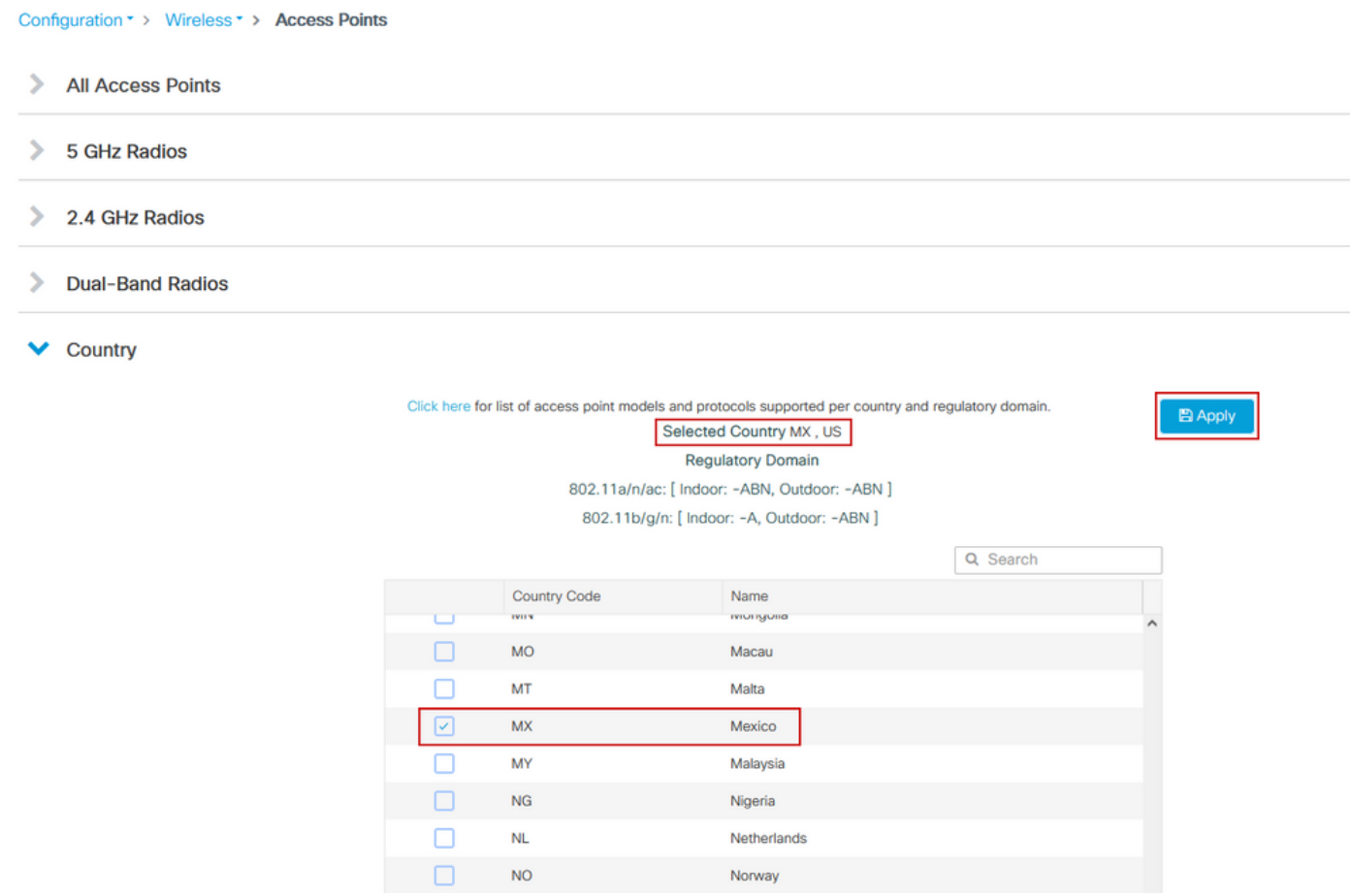


允许AP直接连接到EWC-Switch，但这不是要求。建议使用接入交换机插入AP，以便在主用EWC交换机发生故障时实现高可用性(HA)故障切换。

配置

步骤1:为将要部署AP的地理位置配置国家/地区代码。 这是强制性的，以使AP能够注册，并确保符合其部署所在国家/地区的管制范围准则。在GUI中，导航到Configuration > Wireless > Access Points，然后单击Country选项卡。选择所有适用的国家/地区代码以匹配AP的管制范围。

> 注意：在17.3.1到17.3.3的版本中，EWC交换机GUI会列出国家/地区代码，但不会应用任何选择，直到通过CLI添加一个国家/地区代码，如Cisco bug ID CSCvw20478中所述。配置了一个国家/地区代码后，您可以通过GUI添加更多国家/地区代码。

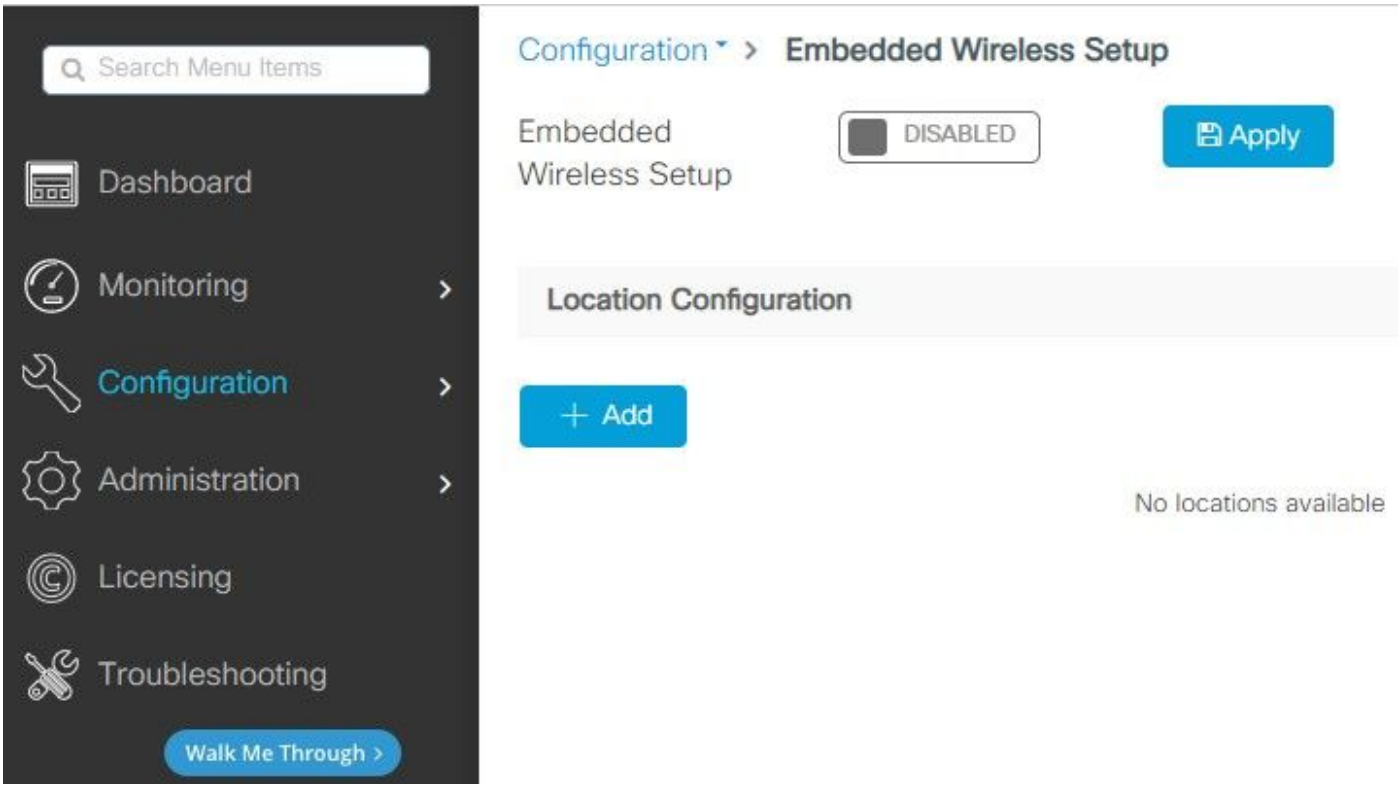


CLI配置（17.3.1到17.3.3）：

```
<#root>

9300-1#

configure terminal


9300-1(config)#

ap dot11 5ghz shutdown


Disabling the 802.11a network may strand mesh APs.
Are you sure you want to continue? (y/n)[y]:
```

```
y

9300-1(config)#
ap dot11 24ghz shutdown

Disabling the 802.11b network may strand mesh APs.
Are you sure you want to continue? (y/n)[y]:
y

9300-1(config)#
wireless country MX
9300-1(config)#
no ap dot11 5ghz shutdown
9300-1(config)#
no ap dot11 24ghz shutdown
```

第二步： 启用无线控制器功能并配置AP将驻留的VLAN。导航到Configuration > Embedded Wireless Setup，将幻灯片Embedded Wireless Setup到Enabled，并在Location Configuration下，单击+ Add。



启用嵌入式无线设置后，这些命令会被推送到CLI。这些CLI在Catalyst 9K交换机上启用lisp交换矩阵，因此它将用作控制平面/映射服务器节点、具有环回作为WMI的无线控制器以及到控制平面映射的WLC，以允许AP和客户端入网。

<#root>

9300-1(config)#

router lisp

9300-1(config-router-lisp)#

locator-table default

9300-1(config-router-lisp)#

locator-set rloc_ewlc

9300-1(config-router-lisp-locator-set)#

IPv4-interface Loopback0

9300-1(config-router-lisp-locator-set)#

auto-discover-rlocs

9300-1(config-router-lisp-locator-set)#

exit-locator-set

9300-1(config-router-lisp)#

locator-set WLC

9300-1(config-router-lisp-locator-set)#

9300-1(config-router-lisp-locator-set)#

exit-locator-set

9300-1(config-router-lisp)#

service ipv4

9300-1(config-lisp-srv-ipv4)#

encapsulation vxlan

9300-1(config-lisp-srv-ipv4)#

itr map-resolver

```
9300-1(config-lisp-srv-ipv4)#
etr map-server


      key


9300-1(config-lisp-srv-ipv4)#
etr map-server


      proxy-reply


9300-1(config-lisp-srv-ipv4)#
etr

9300-1(config-lisp-srv-ipv4)#
sgt

9300-1(config-lisp-srv-ipv4)#
 no map-cache away-eids send-map-request

9300-1(config-lisp-srv-ipv4)#
proxy-etr

9300-1(config-lisp-srv-ipv4)#
proxy-itr
```

```
9300-1(config-lisp-srv-ipv4)#
map-server

9300-1(config-lisp-srv-ipv4)#
map-resolver

9300-1(config-lisp-srv-ipv4)#
exit-service-ipv4

9300-1(config-router-lisp)#
service ethernet

9300-1(config-lisp-srv-eth)#
itr map-resolver




9300-1(config-lisp-srv-eth)#
itr

9300-1(config-lisp-srv-eth)#
etr map-server




      key




9300-1(config-lisp-srv-eth)#
etr map-server
```

```
      proxy-reply


9300-1(config-lisp-srv-eth)#
etr

9300-1(config-lisp-srv-eth)#
map-server

9300-1(config-lisp-srv-eth)#
map-resolver

9300-1(config-lisp-srv-eth)#
exit-service-ethernet

9300-1(config-router-lisp)#
ipv4 source-locator Loopback0

9300-1(config-router-lisp)#
map-server session passive-open WLC

9300-1(config-router-lisp)#
exit


9300-1(config)#
interface LISP0

9300-1(config-if)#
exit


9300-1(config)#
router lisp

9300-1(config-router-lisp)#
```

site site_uci

9300-1(config-router-lisp-site)#

description map-server configured from Wireless LAN Controller

9300-1(config-router-lisp-site)#

authentication-key

9300-1(config-router-lisp-site)#

exit-site

9300-1(config-router-lisp)#

exit-router-lisp

9300-1(config)#

ip dhcp relay information option

9300-1(config)#

wireless fabric

9300-1(config)#

wireless management interface Loopback0

9300-1(config-mgmt-interface)#

exit

9300-1(config)#

wireless fabric control-plane default-control-plane

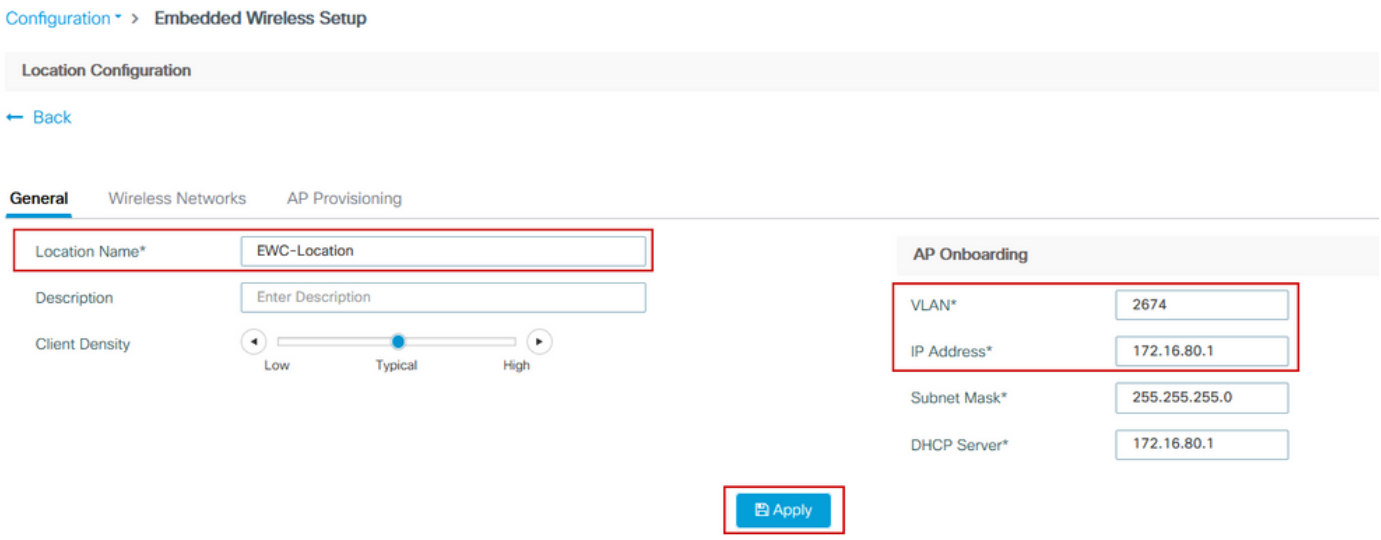
9300-1(config-wireless-cp)#

ip address

key 0

```
9300-1(config-wireless-cp)#
exit
```

第三步： 在General选项卡中的弹出窗口生成的第2步后，输入Location Name和AP Onboarding详细信息，如VLAN和子网掩码。默认情况下，VLAN字段预填为2045。允许使用不同的VLAN ID，但VLAN ID必须介于2045和4094之间，并且必须独立于客户端流量（不允许有线或无线客户端使用此VLAN）。完成详细信息后，点击Apply



这会为AP创建VLAN，为该AP VLAN创建SVI（AP的默认网关）、AP位置、策略和RF标记以及L2和L3虚拟网络标识符(VNID)。 作为步骤3的结果，这些命令在CLI中可见。

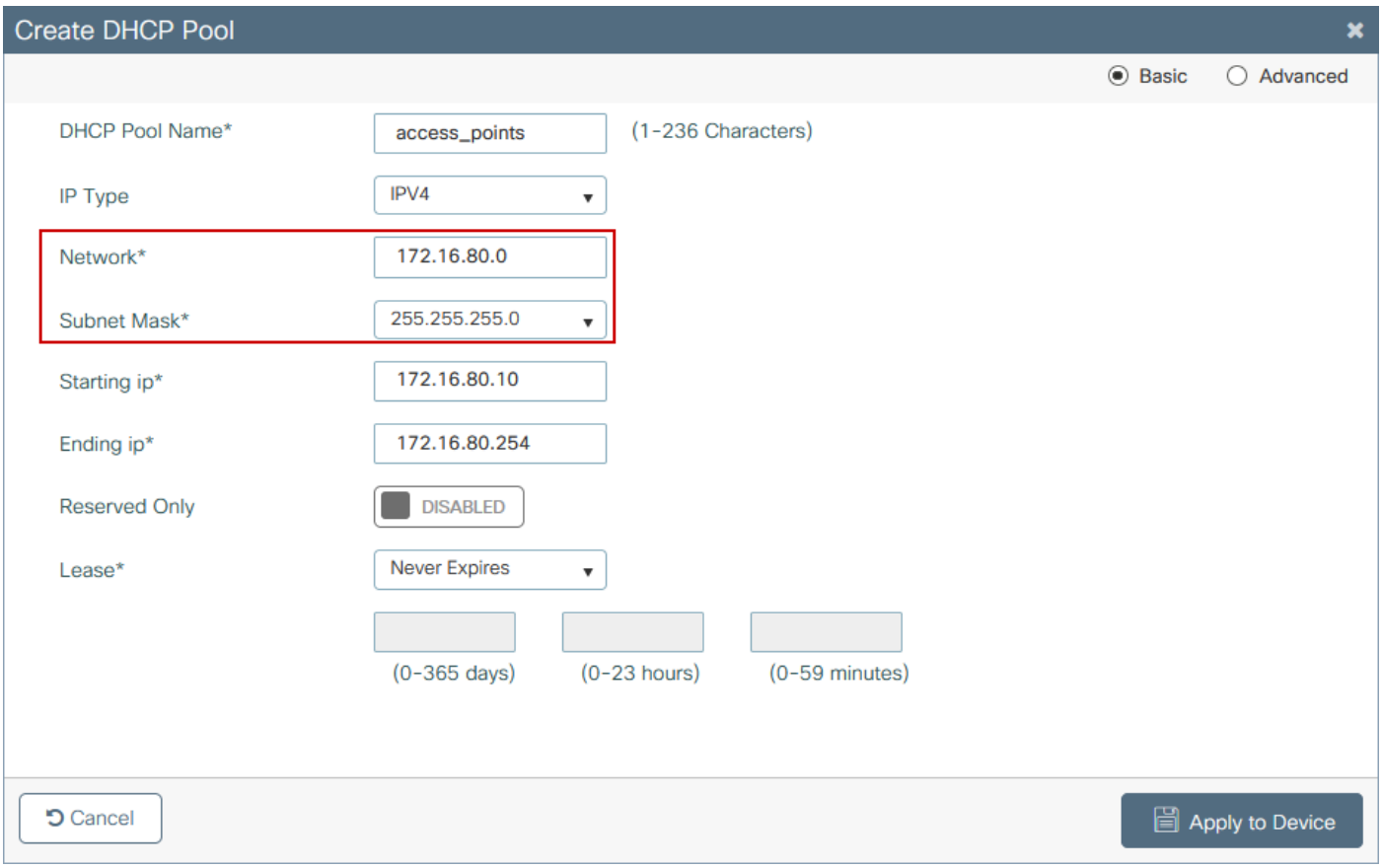
```
<#root>
9300-1(config)#
interface LISP0.4097

9300-1(config-subif)#
router lisp

9300-1(config-router-lisp)#
locator-set rloc_ewlc
```

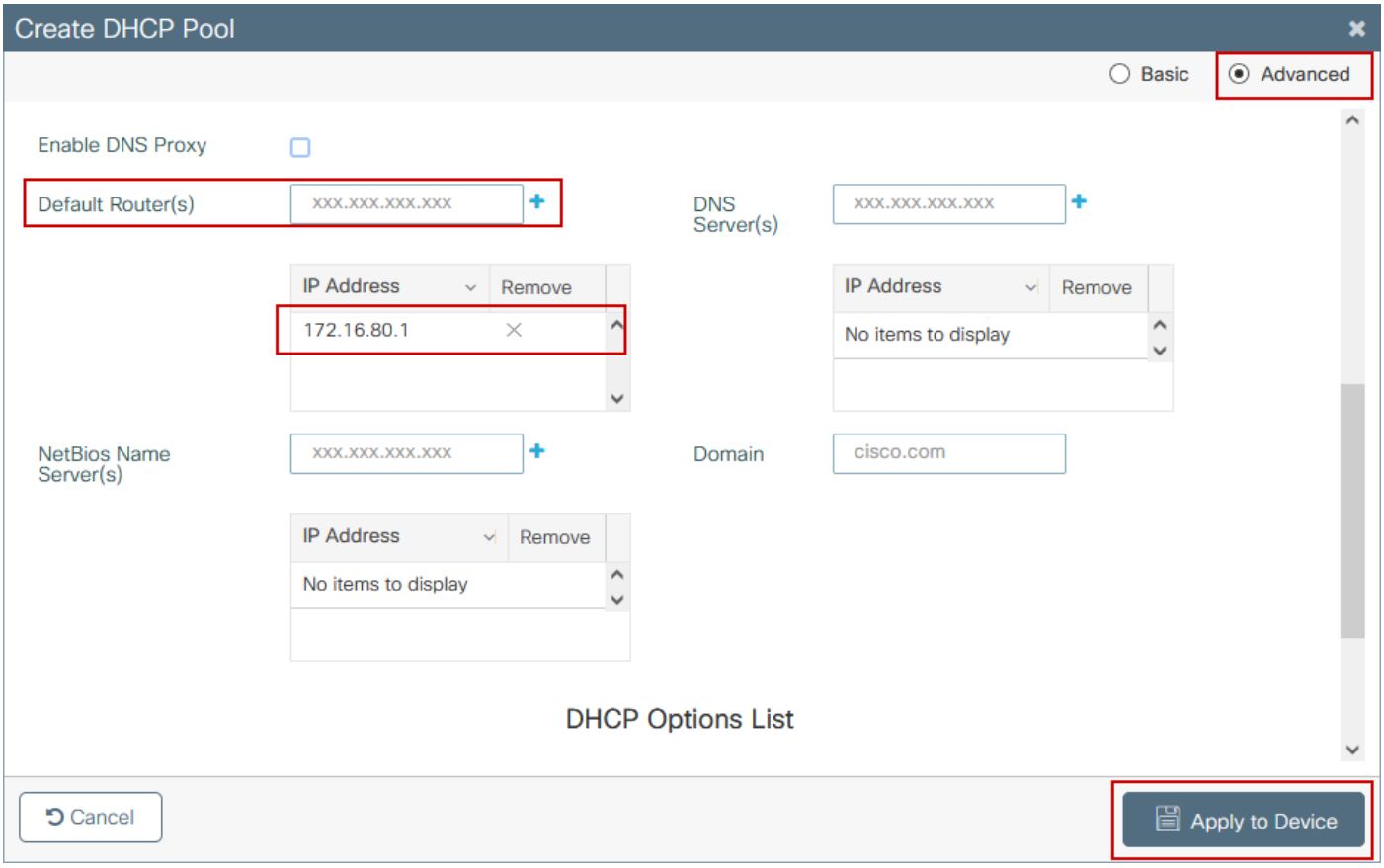
```
9300-1(config-router-lisp-locator-set)#
exit-locator-set

9300-1(config-router-lisp)#
instance-id 4097

9300-1(config-lisp-inst)#
remote-rloc-probe on-route-change

9300-1(config-lisp-inst)#
dynamic-eid APONBOARDING_0_2674_4097_8188

9300-1(config-lisp-inst-dyn-eid)#
database-mapping 172.16.80.0/24 locator-set rloc_ewlc

9300-1(config-lisp-inst-dyn-eid)#
exit-dynamic-eid

9300-1(config-lisp-inst)#
service ipv4

9300-1(config-lisp-inst-srv-ipv4)#
eid-table default

9300-1(config-lisp-inst-srv-ipv4)#
map-cache 172.16.80.0/24 map-request

9300-1(config-lisp-inst-srv-ipv4)#
route-export site-registrations

9300-1(config-lisp-inst-srv-ipv4)#
distance site-registrations 250

9300-1(config-lisp-inst-srv-ipv4)#
map-cache site-registration

9300-1(config-lisp-inst-srv-ipv4)#
exit-service-ipv4

9300-1(config-lisp-inst)#
exit-instance-id
```

```
9300-1(config-router-lisp)#
instance-id 8188

9300-1(config-lisp-inst)#
remote-rloc-probe on-route-change

9300-1(config-lisp-inst)#
service ethernet

9300-1(config-lisp-inst-srv-eth)#
eid-table vlan 2674

9300-1(config-lisp-inst-srv-eth)#
database-mapping mac locator-set rloc_ewlc

9300-1(config-lisp-inst-srv-eth)#
exit-service-ethernet

9300-1(config-lisp-inst)#
exit-instance-id

9300-1(config-router-lisp)#
site site_uci

9300-1(config-router-lisp-site)#
eid-record instance-id 4097 172.16.80.0/24 accept-more-specifics

9300-1(config-router-lisp-site)#
eid-record instance-id 8188 any-mac

9300-1(config-router-lisp-site)#
exit-site

9300-1(config-router-lisp)#
exit


9300-1(config)#
vlan 2674

9300-1(config-vlan)#
```

```
name AP_VLAN2674

9300-1(config-vlan)#
exit

9300-1(config)#
interface Vlan2674

9300-1(config-if)#
description APONBOARDING_0_2674_4097_8188

9300-1(config-if)#
mac-address 0000.0C9F.FAD1

9300-1(config-if)#
ip address 172.16.80.1 255.255.255.0

9300-1(config-if)#
ip helper-address 172.16.80.1

9300-1(config-if)#
no ip redirects

9300-1(config-if)#
ip route-cache same-interface

9300-1(config-if)#
no lisp mobility liveness test

9300-1(config-if)#
ip directed-broadcast

9300-1(config-if)#
lisp mobility APONBOARDING_0_2674_4097_8188

9300-1(config-if)#
exit


9300-1(config)#
wireless fabric name APONBOARDING_0_2674_4097_8188 l2-vnid 8188 l3-vnid 4097 ip 172.16.80.0 255.255.255.
```

第四步：配置Catalyst 9K交换机，使其也充当AP VLAN的DHCP服务器并创建相应的DHCP池。导航到管理> DHCP池，然后单击+添加。设置池名称和网络参数，确保将默认网关设置为SVI IP地址；否则，AP会部分加入控制器。





CLI 配置：

<#root>

9300-1#

configure terminal

9300-1(config)#

ip dhcp excluded-address 172.16.80.0 172.16.80.9

9300-1(config)#

ip dhcp pool

9300-1(dhcp-config)#

network 172.16.80.0 255.255.255.0

9300-1(dhcp-config)#

default-router 172.16.80.1

第五步： 将交换机端口配置为接入模式，并将其分配给先前定义的VLAN。

<#root>

3850-1(config)#

interface

3850-1(config-if)#

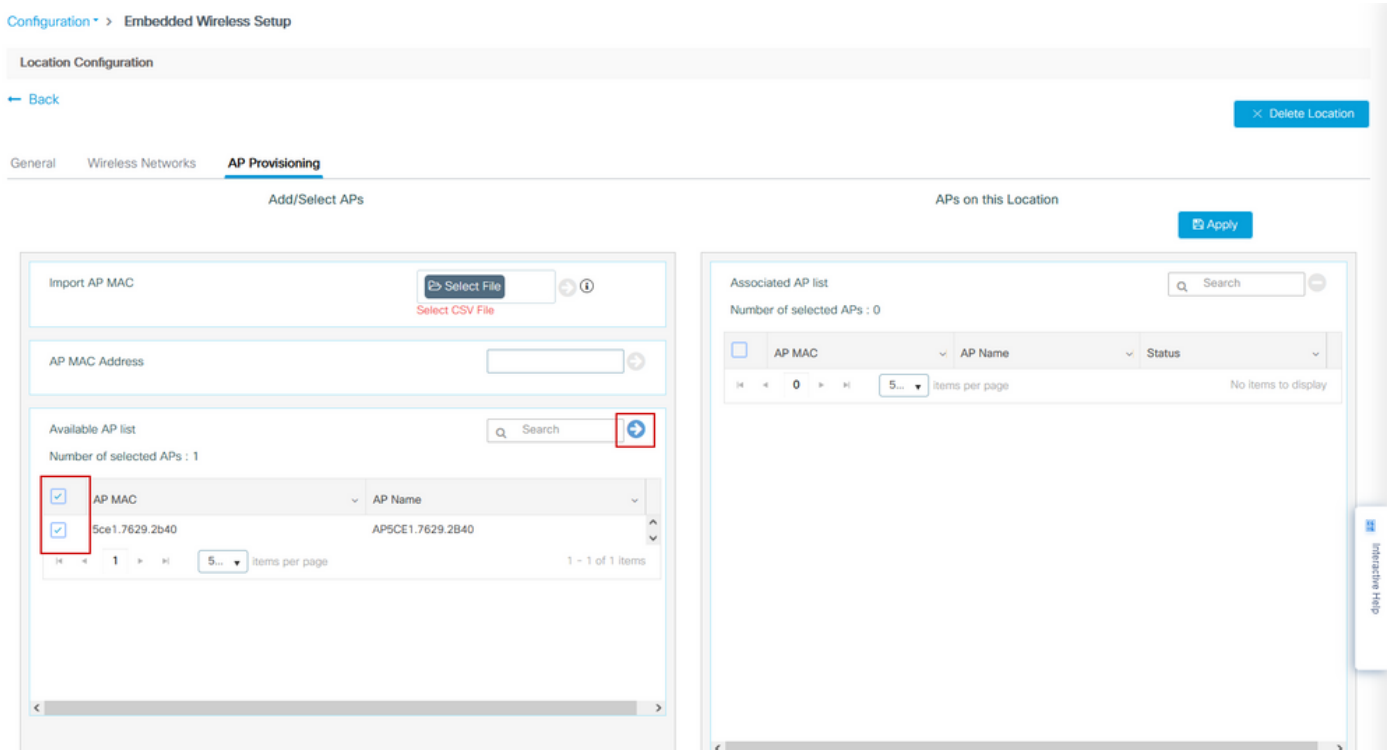
switchport mode access

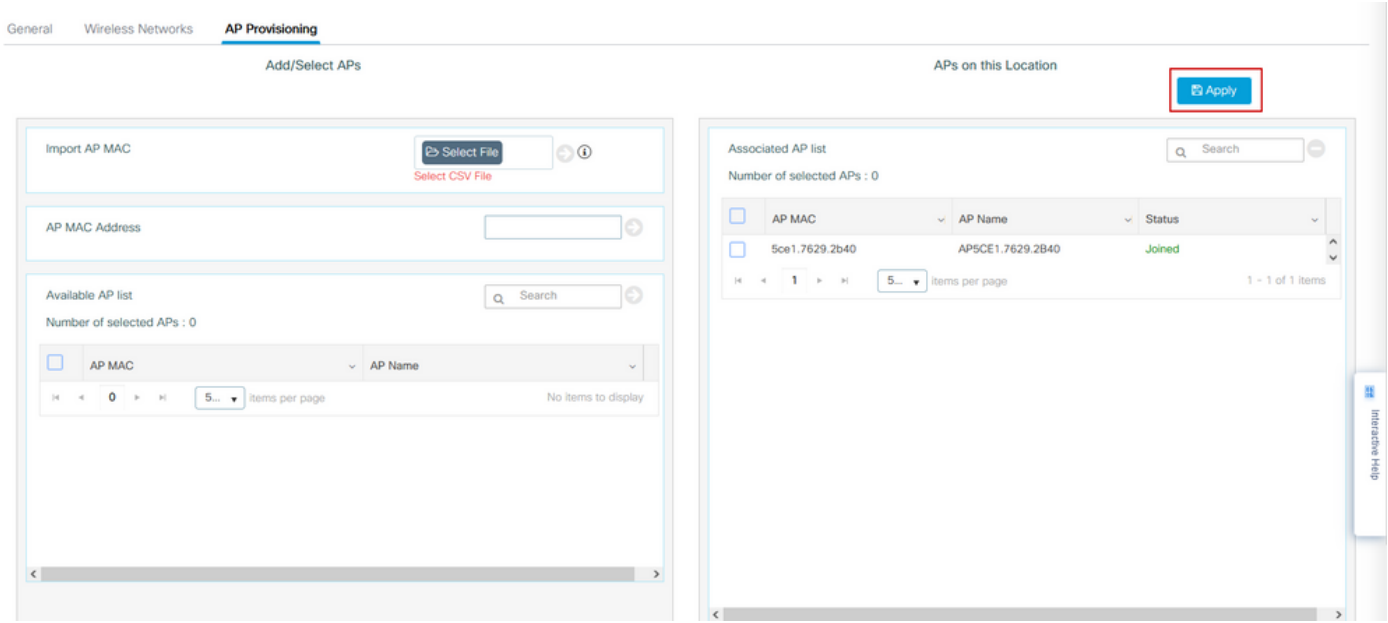
3850-1(config-if)#

switchport access vlan

第六步：导航到Configuration > Embedded Wireless Setup，然后选择在步骤3中创建的站点。单击AP Provisioning选项卡，从Available AP列表中选择需要调配的AP，然后单击蓝色箭头图标将其更改为Associated AP list。将感兴趣的所有无线接入点分配给特定位置后，单击Apply。

⚠ 注意:EWC-Switch允许手动创建和分配标签；但是，这不是支持的配置，唯一支持的标签分配是由Location Assignment进行的。EWC-Switch上仅支持一个位置，因此所有AP必须位于同一子网中并分配到同一位置。





此步骤将此配置添加到EWC-Switch:

<#root>

```
9300-1(config)#
ap location name EWC-Location

9300-1(config-ap-location)#
ap-eth-mac




9300-1(config-ap-location)#
tag policy EWC-Location

9300-1(config-ap-location)#
tag rf EWC-Location
```

对添加到位置的每个AP重复执行ap-eth-mac <AP mac address> 命令。一个站点将支持多达500个AP。

验证

使用此命令可验证WMI和AP Onboard的VLAN创建和状态。

```
<#root>
9300-1#
show wireless fabric summary


Fabric Status : Enabled

Control-plane:
Name IP-address Key Status
-------------------------------------------------------------------------------------------

default-control-plane 172.16.0.1 ciscoeca Up



Fabric VNID Mapping:
Name L2-VNID L3-VNID IP Address Subnet Control plane name
-------------------------------------------------------------------------------------------------------

APONBOARDING_0_2674_4097_8188 8188 4097 172.16.80.0 255.255.255.0
```

使用以下命令验证AP注册状态：

<#root>

9300-1#

show wireless stats ap join summary

Number of APs: 1

Base MAC Ethernet MAC AP Name IP Address Status Last Failure Phase Last Disconnect Reason
---
ac4a.569c.f560 5ce1.7629.2b40

AP5CE1.7629.2B40 172.16.80.10 Joined

Run Tag modified

9300-1#show fabric ap summary
Number of Fabric AP : 1

AP Name Slots AP Model Ethernet MAC Radio MAC Location Country IP Address State
---

AP5CE1.7629.2B40

2 9120AXI 5ce1.7629.2b40 ac4a.569c.f560 default location US

172.16.80.10 Registered

使用此命令验证AP的VxLAN隧道状态。

<#root>

9300-1#

show access-tunnel summary

Access Tunnels General Statistics:
Number of AccessTunnel Data Tunnels = 1

Name RLOC IP(Source) AP IP(Destination) VRF ID Source Port Destination Port
---
Ac0 172.16.0.1 172.16.80.10 0 N/A 4789

Name IfId Uptime

Ac0 0x00000069 0 days, 00:20:11

使用此命令验证AP标记分配。AP必须具有相同的标记并在源下显示位置。

```
<#root>

9300-1#

show ap tag summary


Number of APs: 1

AP Name AP Mac Site Tag Name Policy Tag Name RF Tag Name Misconfigured Tag Source
-----------------------------------------------------------------------------------------------------------------

AP5CE1.7629.2B40

 5ce1.7629.2b40 default-site-tag

EWC-Location EWC-Location

 No

Location
```

注：在本示例中，172.16.0.1是Loopback0 IP地址（即无线管理），且AP会加入该地址。由于这是机箱中的交换矩阵，因此所有交换矩阵组件也指向它。

故障排除

条件调试和无线电主动跟踪

启用条件调试并捕获无线活动(RA)跟踪以对加入进程进行故障排除，RA跟踪为与指定条件（本例中为AP MAC地址）交互的所有进程提供调试级别跟踪。要启用条件调试，请执行以下步骤。

步骤1:确保未启用调试条件。

```
<#root>

9300-1#

clear platform condition all
```

第二步：为要监控的AP MAC地址启用调试条件。

默认情况下，monitor-time为30分钟（1800秒）。您可以增加调试以运行最多2085978494秒。

```
<#root>

9300-1#
```

debug wireless mac

{monitor-time

}

9300-1#

debug wireless mac

{monitor-time

}

注：要调试多个AP，请对每个AP的无线电和以太网MAC地址运行debug wireless mac命令。只有以太网MAC调试会显示DTLS事务。

注意:C9800调试在存储和流程模式下运行。也就是说，调试不会显示在终端会话上，并且所有日志都会在内部缓冲，以便稍后查看。

第三步：从AP CLI退回无线接入点交换机端口或capwap重置AP以捕获完整跟踪。

第四步：如果在默认或配置的监控器时间开启之前重现问题，则停止调试。

<#root>

9300-1#

no debug wireless mac

9300-1#

no debug wireless mac

监控时间过后或手动停止debug wireless后，EWC-Switch会生成一个名为：

ra_trace_MAC_aaaabbbbcccc_HHMMSS.XXX_timezone_DayWeek_Month_Day_year.log

第五步： 收集 MAC 地址活动的文件。 您可以选择将ra trace.log复制到外部服务器以进行脱机分析，或直接在终端会话上显示输出。由于生成的跟踪日志数量较大，因此最好选择脱机分析。

检查 RA 跟踪文件的名称。

<#root>

9300-1#

dir flash: | inc

ra_trace

将文件复制到外部服务器：

<#root>

9300-1#

copy flash:

ra_trace_MAC_<AP_RADIO_MAC>_HHMMSS.XXX_timezone_DayWeek_Month_Day_year.log

tftp://

/

ra-AP_RADIO_MAC.txt

9300-1#

copy flash:

ra_trace_MAC_<AP_ETHERNET_MAC>_HHMMSS.XXX_timezone_DayWeek_Month_Day_year.log

tftp://

/

ra-AP_ETHERNET_MAC.txt

要显示终端会话上的tracelogs，请执行以下操作：

<#root>

9300-1#

more flash:

ra_trace_MAC_<AP_RADIO_MAC>_HHMMSS.XXX_timezone_DayWeek_Month_Day_year.log
9300-1#

more flash:

ra_trace_MAC_<AP_ETHERNET_MAC>_HHMMSS.XXX_timezone_DayWeek_Month_Day_year.log

第六步：如果根本原因不明显，请收集内部日志，后者是tracelogs的更详细视图。您无需再次调试客户端，因为命令提供已收集并内部存储的调试日志。

<#root>

9300-1#

show logging profile wireless internal filter

to-file flash:

ra-internal-<AP_RADIO_MAC>.txt

9300-1#

show logging profile wireless internal filter

to-file flash:

ra-internal-<AP_RADIO_MAC>.txt

注意：此命令输出返回所有进程的所有日志记录级别的跟踪，而且数量相当大。请与技术支持中心(TAC)联系，以帮助分析这些跟踪。

<#root>

9300-1#

copy flash:

ra-internal-<AP_RADIO_MAC>.txt

tftp://

/

ra-internal-<AP_RADIO_MAC>.txt

9300-1#

copy flash:

ra-internal-<AP_RADIO_MAC>.txt

tftp://

/

ra-internal-<AP_RADIO_MAC>.txt

要显示终端会话上的tracelogs，请执行以下操作：

<#root>

9300-1#

more flash:

ra-internal-<AP_RADIO_MAC>.txt

9300-1#

more flash:

ra-internal-<AP_ETHERNET_MAC>.txt

步骤 7.删除调试条件。

注：请务必在排除故障后删除调试条件。

成功的AP加入示例

这是从RA跟踪角度进行的成功连接尝试的输出。使用日志样本验证AP在哪个阶段被阻塞。

CAPWAP发现请求和响应：

<#root>

2021/09/30 17:49:13.823492 {wncmgrd_R0-0}{1}: [capwapac-discovery] [7353]: (note): MAC: ac4a.569c.f560

Discovery Request received

2021/09/30 17:49:13.823519 {wncmgrd_R0-0}{1}: [capwapac-discovery] [7353]: (note): MAC: ac4a.569c.f560
2021/09/30 17:49:13.823793 {wncmgrd_R0-0}{1}: [ewlc-infra-evq] [7353]: (debug): instance :0 port:12289M
2021/09/30 17:49:13.824314 {wncmgrd_R0-0}{1}: [capwapac-discovery] [7353]: (note): MAC: ac4a.569c.f560
2021/09/30 17:49:13.824414 {wncmgrd_R0-0}{1}: [capwapac-discovery] [7353]: (note): MAC: ac4a.569c.f560

Discovery Response sent

证书有效性检查的DTLS握手：

<#root>

```
2021/09/30 17:49:23.259157 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (note): MAC: ac4a.569c.f560

DTLS session create callback received.


2021/09/30 17:49:23.259393 {wncd_x_R0-0}{1}: [capwapac-smgr-sess] [7770]: (info): Session-IP: 172.16.80
2021/09/30 17:49:23.259406 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 22, ha
2021/09/30 17:49:23.259406 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (info):

DTLS client hello


2021/09/30 17:49:23.260931 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 22, ha
2021/09/30 17:49:23.260931 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (info):

DTLS client hello


2021/09/30 17:49:23.267234 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 22, ha
2021/09/30 17:49:23.267332 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 22, ha
2021/09/30 17:49:23.267891 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 22, ha
2021/09/30 17:49:23.270741 {wncd_x_R0-0}{1}: [ewlc-dtls-sessmgr] [7770]: (info): Remote Host: 172.16.80

Completed cert verification, status:CERT_VALIDATE_SUCCESS


2021/09/30 17:49:23.608757 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 22, ha
2021/09/30 17:49:23.608990 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 20, ch
2021/09/30 17:49:23.609255 {wncd_x_R0-0}{1}: [ewlc-dtls-sess] [7770]: (info): Remote Host: 172.16.80.10
2021/09/30 17:49:23.609348 {wncd_x_R0-0}{1}: [capwapac-smgr-sess] [7770]: (info): Session-IP: 172.16.80
2021/09/30 17:49:23.609361 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (info): Session-IP: 172.16.80

DTLS session has been established for AP


2021/09/30 17:49:23.650838 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 23, ap
```

CAPWAP加入请求和响应：

<#root>

```
2021/09/30 17:49:23.650970 {wncd_x_R0-0}{1}: [capwapac-smgr-sess] [7770]: (info): Session-IP: 172.16.80
2021/09/30 17:49:23.650972 {wncd_x_R0-0}{1}: [capwapac-smgr-sess] [7770]: (note): MAC: ac4a.569c.f560

Received CAPWAP join request


2021/09/30 17:49:23.652901 {wncd_x_R0-0}{1}: [rrm-client] [7770]: (ERR): ac4a.569c.f560 Failed to overr
2021/09/30 17:49:23.653789 {wncd_x_R0-0}{1}: [rrm-client] [7770]: (ERR): ac4a.569c.f560 Failed to overr
2021/09/30 17:49:23.653959 {wncd_x_R0-0}{1}: [apmgr-capwap-join] [7770]: (info): ac4a.569c.f560 Retriev
2021/09/30 17:49:23.653967 {wncd_x_R0-0}{1}: [apmgr-db] [7770]: (info): ac4a.569c.f560 Operation state
2021/09/30 17:49:23.654039 {wncd_x_R0-0}{1}: [apmgr-capwap-join] [7770]: (note): MAC: ac4a.569c.f560

Successfully processed Join request
```

. AP name: AP5CE1.7629.2B40, Model: C9120AXI-B, radio slots: 2, rlan slots: 0, site tag name: default-s

policy tag name: EWC-Location, rf tag name: EWC-Location

2021/09/30 17:49:23.654112 {wncmgrd_R0-0}{1}: [ewlc-infra-evq] [7353]: (note): Msg type :mesg->msgtype
2021/09/30 17:49:23.654233 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (info): MAC: ac4a.569c.f560 J
2021/09/30 17:49:23.654311 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (note): MAC: ac4a.569c.f560

Join processing complete. AP in joined state

CAPWAP配置：

<#root>

2021/09/30 17:49:23.947851 {wncd_x_R0-0}{1}: [apmgr-ap-global] [7770]: (info): ac4a.569c.f560 Lispagent
2021/09/30 17:49:23.948023 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (info): Session-IP: 172.16.80

Config status request was processed and Config status response was sent. AP in Configuration state.

2021/09/30 17:49:23.948157 {wncd_x_R0-0}{1}: [lisp-agent-db] [7770]: (ERR): Invalid source IP address t
2021/09/30 17:49:23.948344 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (note): Map request msg sent succ
2021/09/30 17:49:23.949993 {wncmgrd_R0-0}{1}: [hl-core] [7353]: (debug): Radio change on AP ac4a.569c.f
2021/09/30 17:49:23.950130 {wncmgrd_R0-0}{1}: [hl-core] [7353]: (debug): Radio change on AP ac4a.569c.f
2021/09/30 17:49:24.889682 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 23, ap
2021/09/30 17:49:24.889807 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 23, ap
2021/09/30 17:49:24.889992 {wncd_x_R0-0}{1}: [capwapac-smgr-sess] [7770]: (info): Session-IP: 172.16.80

Capwap message received, type: config_status_request

2021/09/30 17:49:24.890020 {wncd_x_R0-0}{1}: [capwapac-smgr-sess-fsm] [7770]: (info): Session-IP: 172.1
2021/09/30 17:49:24.890045 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (info): Session-IP: 172.16.80
2021/09/30 17:49:24.890048 {wncd_x_R0-0}{1}: [capwapac-smgr-sess] [7770]: (info): Session-IP: 172.16.80
2021/09/30 17:49:24.890134 {wncd_x_R0-0}{1}: [apmgr-msgelem] [7770]: (info): ac4a.569c.f560 AP domain n
2021/09/30 17:49:24.890135 {wncd_x_R0-0}{1}: [apmgr-msgelem] [7770]: (info): ac4a.569c.f560 AP IPv6 nam
[...]
2021/09/30 17:49:24.890818 {wncd_x_R0-0}{1}: [capwapac-smgr-srvr] [7770]: (info): Session-IP: 172.16.80

Config status request was processed and Config status response was sent. AP in Configuration state

.
2021/09/30 17:49:24.892967 {wncmgrd_R0-0}{1}: [hl-core] [7353]: (debug): Radio change on AP ac4a.569c.f
2021/09/30 17:49:24.892993 {wncmgrd_R0-0}{1}: [hl-core] [7353]: (debug): Radio change on AP ac4a.569c.f
2021/09/30 17:49:24.964085 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [7770]: (debug): DTLS record type: 23, ap
[...]
2021/09/30 17:49:24.964384 {wncd_x_R0-0}{1}: [ble-d] [7770]: (debug): BLE LTX DB: Creating AP ac4a.569c
2021/09/30 17:49:24.964474 {wncd_x_R0-0}{1}: [ble-d] [7770]: (debug): BLE LTX DB:

Successfully created AP

ac4a.569c.f560
2021/09/30 17:49:24.964479 {wncd_x_R0-0}{1}: [ble-d] [7770]: (debug): BLE LTX DB: Setting capability
2021/09/30 17:49:24.964479 {wncd_x_R0-0}{1}: [ble-d] [7770]: (debug): BLE LTX DB: Updating AP ac4a.569c
2021/09/30 17:49:24.964483 {wncd_x_R0-0}{1}: [ble-d] [7770]: (debug): BLE LTX DB:

Successfully updated AP a

c4a.569c.f560
[...]
2021/09/30 17:49:25.000954 {wncd_x_R0-0}{1}: [apmgr-capwap-config] [7770]: (info): ac4a.569c.f560

AP is in config ready state. Initial configuration will be pushed.

2021/09/30 17:49:25.000972 {wncd_x_R0-0}{1}: [apmgr-capwap-config] [7770]: (info): ac4a.569c.f560 Sendi
2021/09/30 17:49:25.000975 {wncd_x_R0-0}{1}: [apmgr-capwap-config] [7770]: (info): Preparing FIPS confi
2021/09/30 17:49:25.000978 {wncd_x_R0-0}{1}: [apmgr-capwap-config] [7770]: (info): Preparing WLANCC con
2021/09/30 17:49:25.001064 {wncd_x_R0-0}{1}: [apmgr-ap-global] [7770]: (info): ac4a.569c.f560 AP is in
2021/09/30 17:49:25.001064 {wncd_x_R0-0}{1}: [apmgr-ap-global] [7770]: (info): ac4a.569c.f560

Mode update on AP join : AP already in Local mode which matches site configuration

2021/09/30 17:49:25.001081 {wncd_x_R0-0}{1}: [apmgr-db] [7770]: (info): ac4a.569c.f560 Tag process ap w

如果AP未处于Local模式，则会重新启动以应用模式更改。EWC-Switch控制台上会显示与以下内容类似的日志：

<#root>

*Sep 29 20:54:07.769: %APMGR_TRACE_MESSAGE-4-WLC_CONFIG_CHECKER_WARNING: Switch 1 R0/0: wncd: config ch
*Sep 29 20:54:07.769: %APMGR_TRACE_MESSAGE-3-WLC_EXEC_MSG: Switch 1 R0/0: wncd: % Error: AP: AP5CE1.762

will go for a reboot due to Mode change from Flexconnect to Local

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