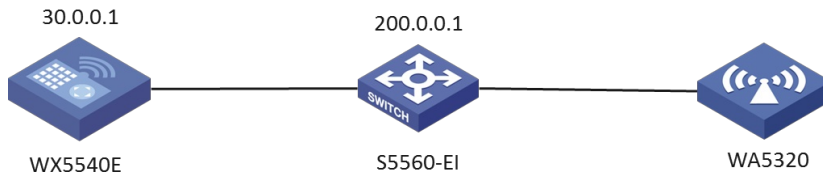


某局点分层AC组网，AP无法正常上线故障案例

分层AC 单畅 2019-08-30 发表

组网及说明



Central AC是WX5540E，local AC是S5560-EI部署分层AC的组网。

问题描述

刚开始分层AC无法建立，考虑到S5560-EI用的是无线特性包UWW-R5204，和WX5540E的版本5218P01不是一致的，在WX5540上关闭版本更新功能。

#

```
wlan local-ac name hg model S5560
serial-id 210235A1FYC17B000022
```

```
firmware-upgrade disable
```

#

之后，分层AC能正常建立，S5560-EI能注册到WX5540E上，但是AP无法上线

过程分析

```
<H3C>display wlan local-ac all
```

```
Total number of local ACs: 1
```

```
Total number of connected local ACs: 0
```

Local AC Information

```
State : I = Idle, J = Join, JA = JoinAck, IL = ImageLoad
```

```
C = Config, DC = DataCheck, R = Run
```

```
AC name ACID State Model Serial ID
```

```
hg 5 R/M S5560 210235A1FYxxxxx0022#
```

```
wlan ap sc1 model WA5320
```

```
serial-id 219801A0YDxxxxx03C7
```

```
control-address enable
```

```
control-address ip 200.0.0.1
```

```
vlan 1
```

```
radio 1
```

```
radio enable
```

```
service-template hg
```

```
radio 2
```

```
radio enable
```

```
service-template hg
```

```
gigabitethernet 1
```

```
gigabitethernet 2
```

```
#
```

```
Sync AP licenses: 0
```

AP information

```
State : I = Idle, J = Join, JA = JoinAck, IL = ImageLoad
```

```
C = Config, DC = DataCheck, R = Run, M = Master, B = Backup
```

```
AP name APID State Model Serial ID
```

```
sc1 6 IL WA5320 219801A0YDxxxxx03C7
```

```
查看debug
```

```
.
```

```
*Aug 22 11:15:37:942 2019 5560ei CWS/7/FSM: Enter Join state.
```

```
*Aug 22 11:15:37:946 2019 5560ei CWS/7/RCV_PKT: Received image data request with SeqNum 2 from AP at 200.0.0.2:28160.
```

```
*Aug 22 11:15:37:946 2019 5560ei CWS/7/RCV_PKT: Received image data request from AP at 200.0.0.2:28160, Length=42.
```

```
00 10 02 00 00 00 00 00 00 00 0F 02 00 1D 00
```

00 19 00 12 00 00 63 A2 00 02 00 0A 77 61 35 33
30 30 2E 69 70 65 00 1B 00 00

.
*Aug 22 11:15:37:946 2019 5560ei CWS/7/FSM: Enter Image Download state.
*Aug 22 11:15:37:946 2019 5560ei CWS/7/EVENT: Failed to get image file from the ram path. **Failed to download image file./下载版本失败**
*Aug 22 11:15:37:948 2019 5560ei CWS/7/ERROR: /mnt/slot1#flash:/wa5300.ipe version: R2218P01 ; APDB version: E2204.
*Aug 22 11:15:37:948 2019 5560ei CWS/7/ERROR: Failed to download image file wa5300.ipe for the AP. AP version is not equal. **//报错AP和AC的版本不匹配**
*Aug 22 11:15:37:948 2019 5560ei CWS/7/ERROR: Failed to process image data request.
*Aug 22 11:15:37:949 2019 5560ei CWS/7/FSM: [Ap ID: 2] Image Download -> Idle.
*Aug 22 11:15:37:949 2019 5560ei CWS/7/EVENT: CAPWAP tunnel to AP 219801A0YDxxxxxx03C7 went down:
%Aug 22 11:15:38:487 2019 5560ei CWC/6/CWC_RUN_DOWNLOAD_START: [Port 0] Started to download the file wa5300.ipe through the CAPWAP tunnel to AC 30.0.0.1.
*Aug 22 11:15:40:944 2019 5560ei CWS/7/ERROR: Failed to match image data request with SeqNum 2 from AP at 200.0.0.2:110
*Aug 22 11:15:43:944 2019 5560ei CWS/7/ERROR: Failed to match image data request with SeqNum 2 from AP at 200.0.0.2:110
*Aug 22 11:15:53:954 2019 5560ei CWS/7/RCV_PKT: Received discovery request with SeqNum 0 from AP at 200.0.0.2:28162.
*Aug 22 11:15:53:954 2019 5560ei CWS/7/RCV_PKT: Received discovery request from AP at 200.0.0.2:28162, Length=157.
00 10 02 00 00 00 00 00 00 00 01 00 00 90 00
00 14 00 01 00 00 26 00 39 00 00 63 A2 00 00 00
06 57 41 35 33 32 30 00 01 00 14 32 31 39 38 30
31 41 30 59 44 38 31 39 35 45 30 30 33 43 37 00
03 00 05 56 65 72 2E 41 00 04 00 06 4C E9 E4 F4
EE 80 00 27 00 2B 04 04 01 01 00 00 00 00 63 A2
00 00 00 01 42 00 00 63 A2 00 01 00 08 52 32 32
31 38 50 30 31 00 00 63 A2 00 02 00 04 37 2E 31
31 00 29 00 01 0E 00 2C 00 01 02 04 18 00 05 01
00 00 00 0A 04 18 00 05 02 00 00 00 6D

解决方法

在WX5540E上[H3C-wlan-ap-sc1]firmware-upgrade disable关闭版本升级后AP正常上线。
原因是分层AC的组网中，如果local AC是融合AC特性包，由于AP和AC的版本并不是一致的版本，即AP的版本文件只有一个，而AC的特性包有多个。如果开启版本更新会导致AP比较自己的版本和AC版本不一致后再次向融合AC请求版本。
所以这种组网下，先正常添加AP使得AP从local AC中获取版本，然后再关闭版本更新的功能使得AP上线。