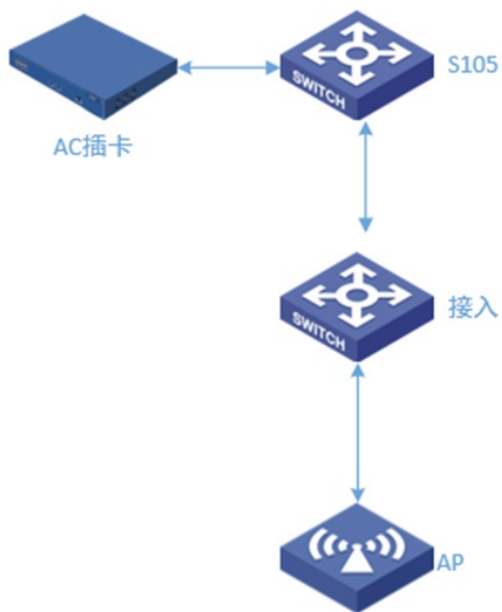


## 知 AC同时向多个AP下发版本慢

软件升级 柳志翔 2023-05-31 发表

### 组网及说明



现场S105设备上插了AC板卡通过内联口互联，S105连接接入，接入连接AP。

告警信息

```

; wlan ap statistics image-download
: 100%
Time consumed : 1hours 30min 13s
Max. concurrent image downloads APs : 256
AP count :
Total to download : 53
Success : 51
In-progress : 0
Failed : 2

```

AC向多个AP下发版本很慢大概需要90分钟。

## 问题描述

AC向多个AP下发版本很慢。

## 过程分析

查看AC并发数是在范围内

表1-15 display wlan ap statistics image-download命令显示信息描述表

字段	描述
Completed	版本下载完成AP占AP总数的百分比
Time consumed	截止到现在，本次在线升级用时
Max. concurrent image downloads of online APs	AP在线并发下载版本数
Total to download	本次需要在线升级的AP总数
Succeeded	升级成功的AP数量
In-progress	正在下载版本的AP数量
Failed	升级失败的AP数量

在交换机流统发现回包在交换机上丢了一部分

dis qos policy interface

Interface: FortyGigEX/X/X //连接AC口

Direction: Outbound

Policy: 1

Classifier: 1

Operator: AND

Rule(s) :

If-match acl 3000

Behavior: 1

Accounting enable:

40743 (Packets)

0 (pps)

Interface: Ten-GigabitEthernetX/X/X //下联接入接口

Direction: Inbound

Policy: 1

Classifier: 1

Operator: AND

Rule(s) :

If-match acl 3000

Behavior: 1

Accounting enable:

41465 (Packets)

0 (pps)

故障时查看接口队列也没有丢包

dis qos queue-statistics interface FGEX/X/X outbound

Interface: FortyGigEX/X/X

Direction: outbound

Forwarded: 1836849 packets, 798773928 bytes

Dropped: 0 packets, 0 bytes

Queue 0

Forwarded: 0 packets, 0 bytes, 0 pps, 0 bps

Dropped: 0 packets, 0 bytes

Current queue length: 0 packets

Queue 1

Forwarded: 0 packets, 0 bytes, 0 pps, 0 bps

Dropped: 0 packets, 0 bytes

Current queue length: 0 packets

Queue 2

Forwarded: 36866 packets, 4621301 bytes, 25 pps, 21920 bps

Dropped: 0 packets, 0 bytes

Current queue length: 0 packets

Queue 3

Forwarded: 0 packets, 0 bytes, 0 pps, 0 bps

Dropped: 0 packets, 0 bytes

解决方法 queue length: 0 packets

Queue 4  
卸载无线特性包后恢复正常。

Forwarded: 0 packets, 0 bytes, 0 pps, 0 bps

```
s wlan ap statistics image-download
: 100%
Time consumed : 2min 16s
Max. concurrent image downloads APs : 256
AP count :
Total to download : 53
Success : 51
In-progress : 0
Failed : 2
```

Queue 6

Forwarded: 0 packets, 0 bytes, 0 pps, 0 bps

Dropped: 0 packets, 0 bytes

Current queue length: 0 packets

Queue 7

Forwarded: 1799715 packets, 794130099 bytes, 661 pps, 2812112 bps

Dropped: 0 packets, 0 bytes

Current queue length: 0 packets

后续排查发现交换机上有WLAN的命令，安装了无线特性包。

```
is cu | inc wlan
wlan global-configuration
wlan ap-group default-group
wlan virtual-ap-group default-virtualapgroup
```

经产品线确认交换机开启了无线特性包之后，会丢弃一些AP发过来的5246和5247端口的报文。  
AC和AP之间如果有交换机，且交换机不是用于无线用途的话，都需要关闭无线特性包。

