

## 知 无线插卡做了热备，断电重启后，备AC上AP少了1000多个

链路聚合 wlan接入 AC备份 杨志涛 2019-01-24 发表

### 组网及说明

无

### 问题描述

无线插卡做了热备，断电重启后，备AC上AP少了1000多个，具体故障显示如下，但是license总数是相同的。

```
=====display wlan ap all=====
```

Total number of APs: 2993

**Total number of connected APs: 2722**

**Total number of connected manual APs: 2722**

Total number of connected auto APs: 0

Total number of connected common APs: 2722

Total number of connected WTUs: 0

Total number of inside APs: 0

Maximum supported APs: 4096

Remaining APs: 1374

**Total AP licenses: 3584**

Remaining AP licenses: 862

Sync AP licenses: 1408

```
=====display wlan ap all=====
```

Total number of APs: 2988

**Total number of connected APs: 1622**

**Total number of connected manual APs: 1606**

Total number of connected auto APs: 16

Total number of connected common APs: 0

Total number of connected WTUs: 0

Total number of inside APs: 0

Maximum supported APs: 4096

Remaining APs: 4096

**Total AP licenses: 3584**

Remaining AP licenses: 3584

Sync AP licenses: 2176

### 过程分析

1、首先检查设备的配置，设备上确实配置AC备份，

```
wlan ap-group default-group
```

```
priority 7
```

```
echo-interval 60
```

```
wlan tunnel-preempt enable
```

```
statistics-interval 60
```

```
retransmit-count 5
```

```
retransmit-interval 6
```

**backup-ac ip 10.1.1.3**

```
provision auto-update enable
```

2.现场AP注册用的是三层注册，检查DHCP的配置，主备AC的管理地址是正常下发的

```
<lfkfq_kejigu_ap04>dis dhcp client verbose
```

Vlan-interface1 DHCP client information:

```
Current state: BOUND
```

```
Allocated IP: 10.0.24.100 255.255.248.0
```

```
Allocated lease: 86400 seconds, T1: 32993 seconds, T2: 75600 seconds
```

```
Lease from Jan 9 10:10:24 2019 to Jan 10 10:10:24 2019
```

```
DHCP server: 10.0.24.1
```

```
Transaction ID: 0x58e8e48d
```

```
Default router: 10.0.24.1
```

**Boot servers: 10.1.1.2 10.1.1.3**

```
Client ID type: mac-address(type value=01)
```

```
Client ID value: ac74-09dc-3000
```

```
Client ID (with type) hex: 01ac-7409-dc30-00
```

3、让现场用一台在主AC上正常注册的，在备AC上注册不上的AP测试，去往主AC的管理地址10.1.1.2

正常，但是ping不通备AC的管理地址10.1.1.3

4、和工程师沟通，故障AP同网段的其他AP是在主备AC上正常注册的。现场有四个管理地址

Vlan120	up	up	10.0.0.1	--	a管理1
Vlan130	up	up	10.0.8.1	--	A管理2
Vlan140	up	up	10.0.16.1	--	a管理3
Vlan150	up	up	10.0.24.1	--	A管理4

5、网关在核心交换机上，在核心交换机上抓包，有AP的discover request，但是没有response，层层排查，只有AC和核心交换机之间ping不通。后续排查发现，核心交换机静态聚合了四个接口，备AC静态聚合了两个接口，由此导致有些报文是备AC无法收到的，因此无法注册成功，

#### 解决方法

将备AC聚合四个口之后，所有的AP全部在备AC上成功注册。