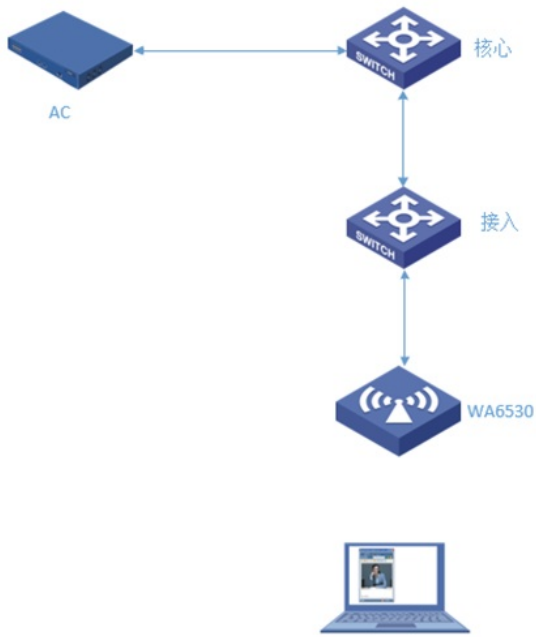


# 知 终端接入无线后无法获取IP地址

wlan接入 柳志翔 2022-12-30 发表

## 组网及说明



AC旁挂核心，核心下联POE接入交换机，POE交换机连接AP

告警信息

终端连接后无法获取IP地址

## 问题描述

终端连接后无法获取IP地址

## 过程分析

AP可以获取地址，终端无法获取地址，在DHCP服务器设备上debug查看

< SW>\*Mar 12 22:07:27:153 2013 SW DHCPS/7/PACKET:

From 0.0.0.0 port 68, interface Vlan-interface10

Message type: REQUEST (1)  
Hardware type: 1, Hardware address length: 6  
Hops: 0, Transaction ID: 3530740923  
Seconds: 60, Broadcast flag: 0  
Client IP address: 0.0.0.0 Your IP address: 0.0.0.0  
Server IP address: 0.0.0.0 Relay agent IP address: 0.0.0.0  
Client hardware address: 5207-7a64- XXXX  
Server host name: not configured  
Boot file name: not configured  
DHCP message type: DHCPDISCOVER (1)

\*Mar 12 22:07:27:156 2013 SW DHCPS/7/PACKET:

To 192.168.244.3 port 68, interface Vlan-interface10

Message type: REPLY (2)  
Hardware type: 1, Hardware address length: 6  
Hops: 0, Transaction ID: 3530740923  
Seconds: 60, Broadcast flag: 0  
Client IP address: 0.0.0.0 Your IP address: 192.168.244.3  
Server IP address: 0.0.0.0 Relay agent IP address: 0.0.0.0  
Client hardware address: 5207-7a64- XXXX  
Server host name: not configured  
Boot file name: not configured  
DHCP message type: DHCPOFFER (2)

\*Mar 12 22:07:29:202 2013 SW DHCPS/7/PACKET:

From 0.0.0.0 port 68, interface Vlan-interface10

Message type: REQUEST (1)  
Hardware type: 1, Hardware address length: 6  
Hops: 0, Transaction ID: 3530740925  
Seconds: 1, Broadcast flag: 0  
Client IP address: 0.0.0.0 Your IP address: 0.0.0.0  
Server IP address: 0.0.0.0 Relay agent IP address: 0.0.0.0  
Client hardware address: 5207-7a64- XXXX  
Server host name: not configured  
Boot file name: not configured  
DHCP message type: DHCPREQUEST (3)

\*Mar 12 22:07:29:205 2013 SW DHCPS/7/PACKET:

To 192.168.244.3 port 68, interface Vlan-interface10

Message type: REPLY (2)  
Hardware type: 1, Hardware address length: 6  
Hops: 0, Transaction ID: 3530740925  
Seconds: 1, Broadcast flag: 0  
Client IP address: 0.0.0.0 Your IP address: 192.168.244.3  
Server IP address: 0.0.0.0 Relay agent IP address: 0.0.0.0  
Client hardware address: 5207-7a64- XXXX  
Server host name: not configured  
Boot file name: not configured  
DHCP message type: DHCPACK (5)

dhcp交互没有问题，但是终端还是无法获取到地址，在终端抓包查看是否收到DHCP server的offer

63.744637	0.0.0.0	255.255.255.255	UDP	0x021c (540)
71.051370	0.0.0.0	255.255.255.255	UDP	0x01d4 (468)
72.220638	0.0.0.0	255.255.255.255	UDP	0x021d (544)

> Frame 34: 342 bytes on wire (2736 bits), 342 bytes captured (2736 bits) on interface Vlan-interface10  
> Ethernet II, Src: 52:07:7a:64:91:9b (52:07:7a:64:91:9b), Dst: Broadcast (ff:ff:ff:ff:ff:ff)  
> Internet Protocol Version 4, Src: 0.0.0.0, Dst: 255.255.255.255  
> User Datagram Protocol, Src Port: 68, Dst Port: 67  
> Dynamic Host Configuration Protocol (Discover)

解决方法一直没有收到offer报文，查看AC中下发的map文件和AP下发的配置发现：

System-view  
修改map文件，下发正确的SGE接口的配置。

```
vlan 10  
vlan 100  
interface gigabitethernet1/0/1  
port link-type trunk  
port trunk permit vlan 10 100  
interface gigabitethernet1/0/2  
port link-type trunk  
port trunk permit vlan 10 100
```

查看AP的诊断发现UP的接口为SGE接口，下发的map文件配置为GE接口的配置。

=====display interface brief=====

Brief information on interfaces in route mode:

Link: ADM - administratively down; Stby - standby

Protocol: (s) - spoofing

Interface	Link	Protocol	Primary IP	Description
InLoop0	UP	UP(s)	--	
NULL0	UP	UP(s)	--	
Vlan1	UP	UP	192.168.246.28	

Brief information on interfaces in bridge mode:

Link: ADM - administratively down; Stby - standby

Speed: (a) - auto

Duplex: (a)/A - auto; H - half; F - full

Type: A - access; T - trunk; H - hybrid

Interface	Link	Speed	Duplex	Type	PVID	Description
GE1/0/1	DOWN	auto	A	T	1	
SGE1/0/1	UP	1G(a)	F(a)	A	1	

Wa6530的SGE接口为POE供电接口。

CONSULE口	说明口，用于维护人员调试使用
GE	10/100/1000M以太网电口 设备工作在Fit模式时，对应MAP文件中的GE1/0/1接口，对应AC配置中的gigabitethernet 1接口
2.5GE/PoE+	100/1000/2500M以太网电口，作为设备的上行接口，接入Internet或城域网，可同时作为标准PoE接口 设备工作在Fit模式时，对应MAP文件中的SGE1/0/1接口，对应AC配置中的smartrate-Ethernet 1接口

