

知 某局点WX3010H-L 部分打印机连接WA4320之后, 无法ping 通网关问题

wlan接入 刘文峰 2021-06-23 发表

组网及说明

组网: 无

### 问题描述

某局点采用AC WX3010H-L和AP WA4320、WA4320-H20部署无线，部署完之后无线终端使用都比较正常，但是发现部分打印机连接WA4320之后，无法正常ping通网关，换到WA4320-H20上之后就能正常ping通，查看两种型号的配置都是一样的，服务模板也是一样，终端IP地址也是一样。

测试结果：

```
<F4-Core-S5130-54C>dis arp vlan 2402
Type: S-Static      D-Dynamic      O-Openflow      R-Rule      M-Multiport      I-Invalid
IP address      MAC address      VID      Interface/Link ID      Aging Type
10.10.10.1      01505f000000      2402      XGE1/0/49      N/A      S
10.10.10.2      09d724020000      2402      XGE1/0/49      N/A      S
10.10.10.3      528624020000      2402      XGE1/0/52      10      D
10.10.10.4      75d424020000      2402      GE1/0/10      20      D
10.10.10.5      05bf24020000      2402      XGE1/0/49      20      D
10.10.10.6      04d924020000      2402      XGE1/0/49      14      D
10.10.10.7      649b24020000      2402      XGE1/0/49      18      D
10.10.10.8      0ace24020000      2402      XGE1/0/49      20      D
10.10.10.9      e22924020000      2402      XGE1/0/49      19      D
10.10.10.10     1e1424020000      2402      XGE1/0/49      20      D
10.10.10.11     f96724020000      2402      GE1/0/18      13      D
10.10.10.12     32ab24020000      2402      XGE1/0/49      20      D
10.10.10.13     617d24020000      2402      XGE1/0/49      11      D
10.10.10.14     420124020000      2402      GE1/0/14      13      D
10.10.10.15     089524020000      2402      GE1/0/18      13      D
10.10.10.16     5b8624020000      2402      XGE1/0/49      20      D
10.10.10.17     865b24020000      2402      GE1/0/15      15      D
10.10.10.18     08c324020000      2402      XGE1/0/49      19      D
10.10.10.19     e8e624020000      2402      GE1/0/30      13      D
10.10.10.20     5a0924020000      2402      GE1/0/12      20      D
10.10.10.21     fa7124020000      2402      XGE1/0/49      1      D
10.10.10.22     072924020000      2402      GE1/0/25      10      D
10.10.10.23     029924020000      2402      GE1/0/18      18      D
10.10.10.24     535c24020000      2402      XGE1/0/49      20      D
10.10.10.25     af8224020000      2402      GE1/0/45      20      D
P
6 data bytes, press CTRL_C to break
q=0 ttl=255 time=3.042 ms
q=1 ttl=255 time=2.163 ms
q=2 ttl=255 time=2.216 ms
q=3 ttl=255 time=5.436 ms
q=4 ttl=255 time=2.309 ms
1 ---
) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.163/3.033/5.436/1.243 ms
```

```
<H3C WX3010H-L>
<H3C WX3010H-L>display wlan client status mac-address [redacted] -0f2c verbose
Total number of clients: 1
MAC address      : [redacted]2c
AP name          :
Radio ID         : 1
RSSI             : 35
Rx/Tx rate       : 300/300 Mbps
Speed            : N/A
Received:
Retransmitted packets : 32
Retransmitted packet ratio : 4.93 %
Sent:
Retransmitted packets : 33
Retransmitted packet ratio : 6.09 %
Discarded:
Discarded packets : 0
Discarded packet ratio : 0.00 %
<H3C WX3010H-L>
<H3C WX3010H-L>
<H3C WX3010H-L>
```



```
[40.5 H-4-S 60 23 0 0 15.4 0 0 ]
[54.0 H-4-S 60 16 0 0 19.6 0 0 ]
[68.0 H-4-D 60 0 0 0 19.9 0 0 ]
```

解决方法

怀疑还是WA4320跟打印机兼容性存在部分问题，最终跟产品线确认，有部分打印机无法支持STBC，怀疑是这个问题导致，让客户关闭STBC功能，然后断开重新连接测试。后续关闭之后，重新关联，问题解决。

```
H-4-S 60 0 0 0 39.1 0 0 ]
[System-System-view 0 0 38.8 0 0 ]
[System-wlan ap-group defaultgroup4.0 0 0 ]
[System-wlan ap-group-tj ap-model WA4320 0 ]
[System-wlan ap-group-tj ap-model WA4320 radio 1 ]
[System-wlan ap-group-tj ap-model WA4320 radio 1] stbc disable
```

由于WA4320和WA4320-H20使用的AP版本不一致，WA4320使用的wa4300s.ipe,WA4320-H20使用的是wa300.ipe，所以默认这个功能开启的情况也不一样，导致连接WA4320不正常，连接WA4320-H20是正常的。接口：

```
=====display ar5drv 1 channelbusy=====
```

ChannelBusy information

Ctl Channel: 36 Channel Band:80M

Center Freq: 42

Record Interval(s): 9

Date/Month/Year: 22/06/2021

Time(h/m/s):	CtlBusy(%)	TxBusy(%)	RxBusy(%)	ExtBusy(%)
01 16:45:07	0	0	0	0
02 16:45:07	13	0	13	0
03 16:45:07	39	0	36	0
04 16:45:07	36	0	32	0
05 16:45:07	66	12	54	0
06 16:45:07	19	1	19	0
07 16:45:06	15	1	15	0
08 16:45:05	0	0	0	0
09 16:45:05	9	0	9	0
10 16:45:04	26	0	24	0
11 16:45:04	4	0	4	0
12 16:45:04	68	13	55	0

打印机发送报文情况:

Station AID(2) Hash(2) Mac(x-x-0f2c) IsTargetready(NO) Used(YES) Ht:(YES) VHT:(NO)

Bss BssIdx(0) MacAddr(x-x-8ce0) IsSREnable:0 IsPbss:0 Beacon:(Y) Status(Run)

SrTxCnt 0, SrPreDelFlag 0, SrCheckCnt 0

[Status Information]:

PS status: Active PS Cnt: 0

PS Attrib: AC0 1, AC1 1, AC2 1, AC3 1

Last 2 minutes TX/RX: 1/1 packets/s, 1.487/2.035 Kbps

TX frame count 2018, TX frame bytes 345710

RX frame count 2306, RX frame bytes 705712

TX retry pkts 124, TX retry bytes 47283

TX error count 0, TX multi retry count 124

TX success data pkts 2018, TX success pkts 2018

TX Retry data count 145

RX Erro count 6

RX unicast data frame count 2128

[Sched Information]:

[Security Info]:

KeyType :AES-CCM

KeyLen :16

KeyIndex:0

HostKey : 96|fa|2c|64|6c|d8|f7|6b|a6|ee|30|19|21|d9|9b|f7|

targetKeyType :AES\_CCMP

targetKeyLen :16

targetKeyIndex:0

targetKey : 96|fa|2c|64|6c|d8|f7|6b|a6|ee|30|19|21|d9|9b|f7|

[Rate control information]:

outbound cir:0 cbs:0 | inbound cir:0 cbs:0

tx buffered frames:0, rx buffered frames:0

Last three rssi:35,31,31

Last rate:300.0, rateMaxPhy:300.0, Last tx power:11

All valid rate(16):

13.5 27.0 27.0 40.5 54.0 54.0 81.0 81.0 108.0 108.0 121.5 150.0