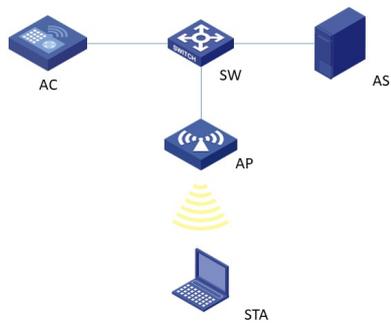


知 某局点WAPI认证失败问题处理经验案例（一）

wlan接入 李庆 2021-04-07 发表

组网及说明

组网如图



问题描述

客户创建WAPI认证服务，使终端通过WAPI认证接入网络，配置完成后测试终端无法接入无线网络。

过程分析

- (1) 检查AC配置未见异常;
- (2) 通过在AC上debugging wlan wapi all, 发现AC发出认证激活报文后终端未发送接入认证请求, 导致终端无法接入。

```
<H3C>debugging wlan wapi all
<H3C>Mar 4 17:11:15:394 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Received init station event.
*Mar 4 17:11:15:397 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client main state machine entered Initialize state.
*Mar 4 17:11:15:397 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client authentication state machine entered Idle state.
*Mar 4 17:11:15:397 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client user state machine entered Idle state.
*Mar 4 17:11:15:398 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client MSR state machine entered Idle state.
*Mar 4 17:11:15:398 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Received association request, process result: 0.
*Mar 4 17:11:15:407 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Client starts to authenticate.
*Mar 4 17:11:15:407 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client main state machine entered Authenticating state.
*Mar 4 17:11:15:407 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Created Authentication Identifier.
*Mar 4 17:11:15:408 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Created UDP socket: 197
*Mar 4 17:11:15:437 2021 H3C SPAMGR/7/PktSend: [MAC: [REDACTED] BSSID: [REDACTED]

----Packet Head----
Version: 1
Type: 1
Subtype: 9
Length: 136
Packet Sequence Number: 1
Fragment Sequence Number: 0
More Fragment Flag: 0

----Packet Content----
00 DD 01 1E 04 08 13 A1 CA E4 F9 6B 06 2D BE
04 00 87 CC AB 2B BD ED 58 D1 A6 B7 E3 DB 84 49
B4 00 01 00 C4 30 5D 31 14 30 12 06 0A 09 92 26
09 58 2C 64 01 19 16 04 57 41 50 49 31 0B 30
09 06 03 55 04 06 13 02 43 4E 31 10 30 0E 06 03
55 04 0A 0C 07 42 4A 43 41 5F 42 44 31

*Mar 4 17:11:15:437 2021 H3C SPAMGR/7/Timer: [MAC: [REDACTED] BSSID: [REDACTED] Created the packet resending timer.
*Mar 4 17:11:15:437 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client authentication state machine entered Waiting Station Request state.
*Mar 4 17:11:15:483 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Received free station event.
*Mar 4 17:11:15:483 2021 H3C SPAMGR/7/Event: [MAC: [REDACTED] BSSID: [REDACTED] Removed the client.
*Mar 4 17:11:15:484 2021 H3C SPAMGR/7/FSM: [MAC: [REDACTED] BSSID: [REDACTED] Client main state machine entered Offline state.
```

- (3) 现场将证书导入另一台终端后认证成功。

- (4) 在两台终端上抓包确认

认证成功的终端会发送认证请求

312	2021-02-05 10:35:23.767310000		802.11	873 Association Request, Sm=0, Fn=0, Flags=...	SSID
313	2021-02-05 10:35:23.773743000	broadcast	ARP	60 who has 192.168.68.10? Tell 192.168.68.33	
314	2021-02-05 10:35:23.773743000	broadcast	ARP	60 who has 192.168.68.10? Tell 192.168.68.33	
315	2021-02-05 10:35:23.773853000	broadcast	ARP	120 who has 192.168.68.10? Tell 192.168.68.33	
316	2021-02-05 10:35:23.774211000		WAPI	1204 Access authentication request	

认证失败的终端不发送认证请求

1	2021-03-04 17:11:15.632404000		802.11	88 Association Request, Sm=2049, Fn=0, Flags=...	SSID
2	2021-03-04 17:11:15.632404000		802.11	88 Association Request, Sm=2049, Fn=0, Flags=...	SSID
3	2021-03-04 17:11:15.632916000		802.11	88 Association Request, Sm=0, Fn=0, Flags=...	SSID=BR
4	2021-03-04 17:11:15.632916000		802.11	88 Association Request, Sm=0, Fn=0, Flags=...	SSID=BR
5	2021-03-04 17:11:15.634945000		802.11	222 Association Request, Sm=2050, Fn=0, Flags=...	SSID
6	2021-03-04 17:11:15.634945000		802.11	222 Association Request, Sm=2050, Fn=0, Flags=...	SSID
7	2021-03-04 17:11:15.637145000		802.11	207 Association Request, Sm=0, Fn=0, Flags=...	[MalForme
8	2021-03-04 17:11:15.637145000		802.11	207 Association Request, Sm=0, Fn=0, Flags=...	[MalForme
9	2021-03-04 17:11:15.640413000		CAPWAP	954 CAPWAP-Control - Station Configuration Request	
10	2021-03-04 17:11:15.640413000		CAPWAP	954 CAPWAP-Control - Station Configuration Request	
11	2021-03-04 17:11:15.644924000		CAPWAP	66 CAPWAP-Control - Station Configuration Response	
12	2021-03-04 17:11:15.644924000		CAPWAP	66 CAPWAP-Control - Station Configuration Response	

解决方法

该问题为终端无线网卡问题，客户更换终端无线网卡解决。

