

# 知 某局点WX2510H做微信认证异常问题处理经验案例

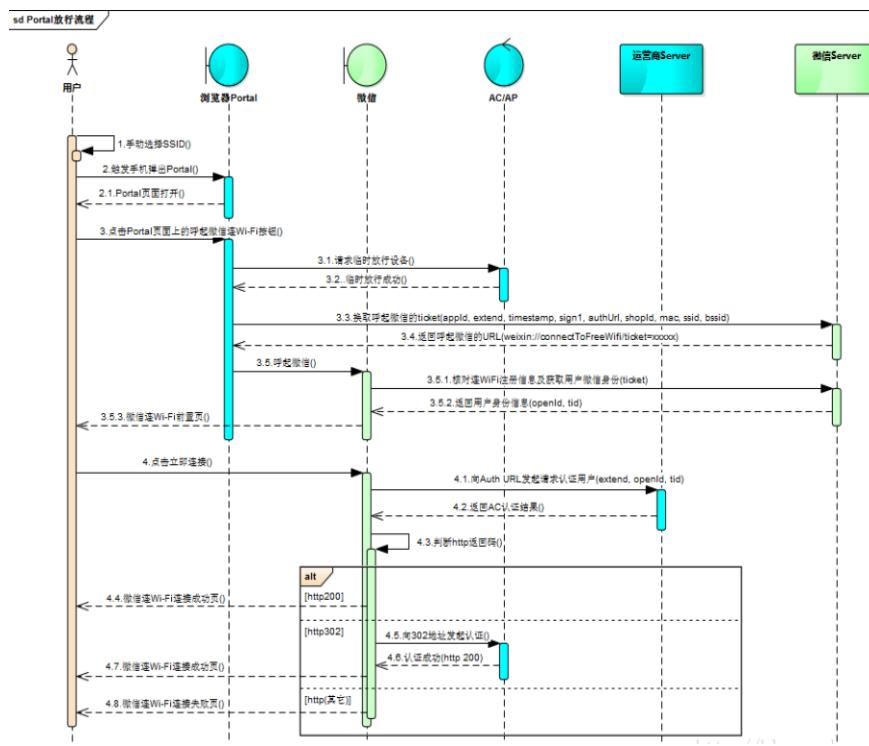
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## 组网及说明

某局点做无线的微信认证，认证端是云端的服务器。

## 问题描述

做普通微信认证正常通过，但是客户希望提高网络的监控和安全度，希望在微信认证的时候添加TID（加密后的用户手机）属性，发现添加该属性后认证就异常。认证过程如下：



### 8. 连接Wi-Fi

用户点立即连接按钮，微信自动向authUrl（JSAPI的传入参数）发起请求，提交认证所需的用户微信身份信息参数，包括extend、openid、tid。

```
http://www.fangbei.org/wifigw/
auth_xhtml?httpCode=200&extend=fangbei&
openId=oIPuduCHIBb2aHvZoqSmLt7KbXtw&
tid=010002d1eb4ee298934a7d44c1ece599ed5
7c4010119bb23028b8
```

参数说明如下

参数	说明
extend	为上文中调用呼起微信JSAPI时传递的extend
openid	用户的微信openid
tid	为加密后的用户手机号码（仅作网监部门）

云端Auth URL 返回AC认证结果

authUrl所对应的后台认证服务器必须能识别这些参数信息，并向微信客户端返回AC认证结果，微信客户端将根据http返回码，提示用户连网成功与否。

## 过程分析

1. 查看配置，发现正常：

```
#  
version 7.1.064, Release 5221  
#  
  
#  
dns server 114.114.114.114
```

```
#  
vlan 800  
description i-guangdong-wifi  
#  
vlan 810  
description i-guangdong-wifi-user  
#  
wlan service-template 1  
ssid i-Guangdong  
vlan 810  
user-isolation enable  
client-rate-limit enable  
client-rate-limit inbound mode static cir 512  
client-rate-limit outbound mode static cir 6144  
portal enable method direct  
portal domain i-guangdong  
portal bas-ip 10.65.4.163  
portal apply web-server portal  
service-template enable  
#  
wlan service-template 2  
ssid cl-office  
akm mode psk  
preshared-key pass-phrase cipher $c$3$ojfOHTlQFJZNcmtnDKhszuVO9iAVY0GXG0+lcw==  
cipher-suite ccmp  
security-ie rsn  
client-rate-limit enable  
client-rate-limit inbound mode static cir 512  
client-rate-limit outbound mode static cir 12288  
service-template enable  
#  
wlan service-template 3  
ssid iGT  
vlan 810  
user-isolation enable  
portal enable method direct  
portal domain i-guangdong-portal3  
portal bas-ip 10.65.4.163  
portal apply web-server portal3  
service-template enable  
#  
interface NULL0  
#  
interface Vlan-interface800  
ip address 10.65.4.163 255.255.255.224  
#  
interface GigabitEthernet1/0/2  
port link-mode bridge  
port access vlan 800  
#  
interface GigabitEthernet1/0/3  
port link-mode bridge  
port access vlan 810  
#  
interface GigabitEthernet1/0/4  
port link-mode bridge  
port access vlan 810  
#  
interface GigabitEthernet1/0/5  
port link-mode bridge  
description link-to-route  
port link-type trunk  
undo port trunk permit vlan 1  
port trunk permit vlan 800 810
```

```

#
ip route-static 0.0.0.0 0 10.65.4.161
#
radius session-control enable
#
radius scheme i-guangdong
primary authentication 10.64.1.201 key cipher $c$3$qXeFEBd8VF8Kk1ySRmVh9cQfUP8ka5PgbMIF
gz0aCFQAE8=
primary accounting 10.64.1.201 key cipher $c$3$tbG57h1SD566zp5SxXAHaO4WQhKJD5fqx+9rStx
WqKhZY30=
key authentication cipher $c$3$4WE02rHwjgHV4jT4bh3nRleakKkbCuw3nYV3MwCA97ndUP0=
key accounting cipher $c$3$2jhhsOpqE5AoHJiOBBLISYxtjPsl+8EuIMl4WjPyfS8pWrA=
user-name-format keep-original
nas-ip 10.65.4.163
#
radius scheme i-guangdong-portal3
primary authentication 10.64.2.104 key cipher
$c$3$A7hfmQ1Ii5PMT6Y2qt2qrt4DwkWmzGuTSIJC/LCA++Pxwl=
primary accounting 10.64.2.104 key cipher
$c$3$/vq/m668j7ZoRMIVHFLIAQBennmFs5P4uH32aKmkqnjjwfqq=
key authentication cipher $c$3$DWsVsgeUUj7UYKF4FvfsOkJNSvtR9xHZOafplup4dVLT8xs=
key accounting cipher $c$3$sUftC5uX84n8j59qJVER3BjQZsiv4unajDyBUTkMsHt1oig=
user-name-format keep-original
nas-ip 10.65.4.163
#
domain i-guangdong
authorization-attribute idle-cut 120 10240
session-time include-idle-time
authentication portal radius-scheme i-guangdong
authorization portal radius-scheme i-guangdong
accounting portal radius-scheme i-guangdong
#
domain i-guangdong-portal3
authorization-attribute idle-cut 120 10240
session-time include-idle-time
authentication portal radius-scheme i-guangdong-portal3
authorization portal radius-scheme i-guangdong-portal3
accounting portal radius-scheme i-guangdong-portal3
#
portal host-check enable
portal device-id IGD_H3C_CJRJYPX
portal auth-fail-record enable
portal auth-error-record enable
portal free-rule 1 source ip any destination ip 114.67.*.0 255.255.255.240
portal free-rule 2 source ip 114.67.*.0 255.255.255.240 destination ip any
portal free-rule 3 source ip any destination ip 202.96.*.86 255.255.255.255
portal free-rule 4 source ip any destination ip 202.96.*.166 255.255.255.255
portal free-rule 5 source ip any destination ip 10.64.1.0 255.255.255.0
portal free-rule 6 source ip 10.64.1.0 255.255.255.0 destination ip any
portal free-rule 7 source ip any destination ip 114.114.114.114 255.255.255.255
portal free-rule 8 source ip any destination ip 10.64.2.0 255.255.255.0
portal free-rule 9 source ip 10.64.2.0 255.255.255.0 destination ip any
portal free-rule 10 source interface GigabitEthernet1/0/5
#
portal web-server portal
url https://i-guangdong.windfindtech.com/portal/login
server-type cmcc
url-parameter apmac ap-mac
url-parameter nasid nas-id
url-parameter userip source-address
url-parameter usermac source-mac
url-parameter wlanacip value 10.65.4.163
url-parameter wlanacname value IGD_H3C_CJRJYPX
#

```

```
portal web-server portal3
url https://i-guangdong.windfindtech.com/portal2/login
server-type cmcc
url-parameter apmac ap-mac
url-parameter nasid nas-id
url-parameter userip source-address
url-parameter usermac source-mac
url-parameter wlanacip value 10.65.4.163
url-parameter wlanacname value IGD_H3C_CJRJYPX
#
portal server portal
ip 10.64.1.3
server-type cmcc
#
portal server portal2
ip 10.64.1.4
server-type cmcc
#
portal server portal3
ip 10.64.1.234
server-type cmcc
#
portal server portal4
ip 10.64.2.104
server-type cmcc
#
wlan global-configuration
control-address enable
nas-id 767017
#
wlan ap-group default-group
vlan 1
ap-model WA4320-ACN-SI
radio 1
radio enable
service-template 1 vlan 810
service-template 2 vlan 810
service-template 3 vlan 810
radio 2
radio enable
service-template 1 vlan 810
service-template 2 vlan 810
service-template 3 vlan 810
#
wlan ap 2f-01 model WA4320-ACN-SI
serial-id 219801A0T78171E08716
radio 1
radio enable
channel band-width 40
radio 2
radio enable
#
wlan ap 2f-02 model WA4320-ACN-SI
serial-id 219801A0T78171E05524
radio 1
radio enable
channel band-width 40
radio 2
radio enable
#
wlan ap 2f-03 model WA4320-ACN-SI
serial-id 219801A0T78171E08761
radio 1
channel band-width 40
```

```
radio 2
radio enable
#
wlan ap 3f-04 model WA4320-ACN-SI
serial-id 219801A0T78171E06080
radio 1
radio enable
channel band-width 40
radio 2
radio enable
#
wlan ap 3f-05 model WA4320-ACN-SI
serial-id 219801A0T78171E08346
radio 1
radio enable
channel band-width 40
radio 2
radio enable
#
wlan ap 3f-06 model WA4320-ACN-SI
serial-id 219801A0T78171E05550
radio 1
radio enable
channel band-width 40
radio 2
radio enable
#
cloud-management server domain oasis.h3c.com
#
```

2.看了一下故障的debug，如下：

```
*May 27 15:44:00:386 2019 IGD_H3C_CJRJYPX PORTAL/7/EVENT: User-SM[172.18.0.107]: Notified Auth-SM to process the REQ_AUTH packet.
*May 27 15:44:00:386 2019 IGD_H3C_CJRJYPX PORTAL/7/FSM: Auth-SM: Started to run.
*May 27 15:44:00:387 2019 IGD_H3C_CJRJYPX PORTAL/7/FSM: Auth-SM [172.18.0.107]: Entered state A authenticating.
*May 27 15:44:00:387 2019 IGD_H3C_CJRJYPX PORTAL/7/EVENT: User-SM[172.18.0.107]: AAA process ed authentication request and returned processing.
*May 27 15:44:00:387 2019 IGD_H3C_CJRJYPX PORTAL/7/FSM: User-SM[172.18.0.107]: Begin to run.
*May 27 15:44:00:387 2019 IGD_H3C_CJRJYPX PORTAL/7/EVENT: User-SM[172.18.0.107]: Received authentication response, RespCode=26.
*May 27 15:44:00:387 2019 IGD_H3C_CJRJYPX PORTAL/7/FSM: Auth-SM: Started to run.
*May 27 15:44:00:387 2019 IGD_H3C_CJRJYPX PORTAL/7/PACKET:
Portal sent 16 bytes of packet: Type=ack_auth(4), ErrCode=1, IP=172.18.0.107
```

正常portal过程，AC收到portal服务器发送的REQ-AUTH (type=3) 的报文之后，应该会和AAA服务器交互认证报文，AAA服务器回复通过之后，AC才会回复ACK-AUTH (type=4)，errordcode=0 的报文给portal服务器。

而上面这个不正常的认证过程，可以发现AAA服务器回复的RespCode=26代表信息交互不正常，正常应该是：

```
*May 27 16:18:12:190 2019 IGD_H3C_CJRJYPX PORTAL/7/EVENT: User-SM[172.18.0.107]: Received authentication response, RespCode=0.
即AAA服务器不通过这个认证，导致后续AC给portal服务器回复的ACK-AUTH (type=4) 报文的errordcod e=1，所以这就应该排查服务器为什么回复的是RespCode=26。
```

### 解决方法

通过排查服务器端解决问题。对于跟第三方对接的问题，要根据实际情况判断是我司设备问题还是第三方设备问题。