

# 知 ADCampus 无线mac portal认证失败的经验案例

ADCampus解决方案 刘玉娟 2024-09-28 发表

## 组网及说明

ADCampus标准组网

## 问题描述

无线mac portal认证失败，终端连上ssid后立马自动切换到其他ssid

## 过程分析

1.在AC设备上debug radius all 和debug mac-authentication all发现没有radius的报文交互，检查无线AC的配置，发现无线的默认domain设置错误，应该修改为isp

```
# domain isp
authentication lan-access radius-scheme eia
authorization lan-access radius-scheme eia
accounting lan-access radius-scheme eia
#
domain system
#
domain default enable system
#
```

2.修改后终端仍然无法认证，提示正在获取IP地址，在AC上display mac-au con查不到认证表项，EIA上查看下线原因是设备重新发起认证请求

接入分析			
接入明细			
漫游接入明细			
认证日志			
终端日志			
用户自助操作日志			
绑定IP管理操作日志			
基本信息			
帐号名:	byodanonymous	用户名:	BYOD
服务名:	BYOD	用户分组:	未分组
登录名:	be3a63f490a9	接入策略名:	BYOD
手机号码:		用户类型:	接入用户
访客管理组:			
接入信息			
接入开始时间:	2024-09-27 10:45:19	接入结束时间:	2024-09-27 10:45:21
接入时长:	2秒	下线原因:	Duplicate Authentication (设备重新发起认证请求)
设备IP地址:	10.241.255.253	设备端口号:	0
设备序列号:		设备槽号:	1
设备子槽号:	0	IMSI号码:	
直连设备名称:		直连设备IP:	10.241.255.253
上传字节数:	0	下载字节数:	0
VLAN ID/内层VLAN ID:	22	外层VLAN ID:	

3.AC上debug信息看EIA回应了认证通过报文，设备发起了多次认证请求，这种情况一般是因为AP添加表项失败

```
347 BSSID 103f-8cdc-25d0 on AP 103f-8cdc-25c0 Radio ID 2 of AC IP 127.0.0.1 successfully.
348 *Sep 26 16:47:02:007 2024 WX5540X-1 STAMGR/6/STAMGR_CLIENT_SNOOPING: Detected client IP change: Client MAC: e2e3-54c7-9efe, IP: 10.105.13.254, -NA-, -NA-, -NA-, Usernam
349 AP name: 103f-8cdc-25c0, Radio ID: 2, Channel number: 157, SSID: FQDITY, BSSID: 103f-8cdc-25d0.
348 *Sep 26 16:47:02:387 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Received authentication request in the Unauth state.
349 *Sep 26 16:47:02:387 2024 WX5540X-1 STAMGR/7/Event: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Processed authentication request successfully, and sent
authentication response.
350 *Sep 26 16:47:02:387 2024 WX5540X-1 STAMGR/7/timer: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Created state timer.
351 *Sep 26 16:47:02:387 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Changed the client's state from Unauth to Auth.
352 *Sep 26 16:47:02:389 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Received association request in the Auth state.
353 *Sep 26 16:47:02:388 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Client state Auth
```

搜索结果 (匹配2次)

- 搜索 "Received authentication request in the Unauth state." (1个文件中匹配到3次, 总计查找1次)
- C:\Users\E32178\Desktop\mac debug.txt (匹配2次)
- 行 161: \*Sep 26 16:47:02:387 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Received authentication request in the Unauth state.
- 行 162: \*Sep 26 16:47:05:042 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Received authentication request in the Unauth state.
- 行 177: \*Sep 26 16:47:14:959 2024 WX5540X-1 STAMGR/7/FSM: [APID: 1306] [MAC: c267-b0c0-0aeef, BSSID: 103f-8c07-f8a2] Received authentication request in the Unauth state.

搜索 "c267-b0c0-0aeef" (1个文件中匹配到33次, 总计查找1次)

4.进一步检查AP的配置，发现AP上没有创建授权byod的vlan 2901，补充后无线终端认证正常

```
#
telnet server enable
#
dhcp snooping enable
#
lldp global enable
lldp hold-multiplier 8
#
password-recovery enable
#
vlan 1
#
vlan 3531 to 3785
"
```

#### 解决方法

- 1.无线AC上默认domain域配置错误，需要修改用于认证的isp域；
- 2.无线ap上需要包含所有安全组对应的vlan