# Huawei

1.3.1090 WNAM Huawei. Wi-Fi Huawei :

- AP2050, AP5030, AP4050, AP6050, AP6010 , FAT, ;
- FIT ( ) AC6005, AC6605.

WNAM "External Portal Server". Huawei (Agile Controller) .

WNAM , . "" " " , - Huawei, IP- , . " " " NetFlow" .

Huawei () . WNAM () RADIUS "", WNAM / UDP:2000 ( ).

:

- WNAM, UDP 1812 1813;
- WNAM , UDP 2000.

Firewall NAT, .

Huawei "" , - web-auth-server ( GUI ). , , .

!

AP5030DN FAT V200R006C10SPCa00. Web-, (RADIUS-) CLI. . . IP- WNAM: 172.16.130.5, RADIUS- 80.

```
#
authentication-profile name wnam-authentication-profile
 portal-access-profile wnam-portal-access-profile
 free-rule-template default_free_rule
 authentication-scheme radius
 accounting-scheme default
 radius-server wnam_radius
#
portal captive-bypass disable
#
radius-server template wnam_radius
 radius-server shared-key cipher %^%#Nl=Y8Wyh"ZWb:P(H`d)8>Nf1<Pio=2bWLA"Xn1A8%^%#
 radius-server authentication 172.16.130.5 1812 weight 80
 radius-server accounting 172.16.130.5 1813 weight 80
 radius-server hw-dhcp-option-format new
 radius-server hw-ap-info-format include-ap-ip
 calling-station-id mac-format hyphen-split mode2 uppercase
 radius-attribute check Session-Timeout
 radius-attribute check HW-Input-Committed-Information-Rate
 radius-attribute check HW-Output-Committed-Information-Rate
#
free-rule-template name default_free_rule
 free-rule 1 destination ip 172.16.130.5 mask 255.255.255.255
#
url-template name urlTemplate_0
 url http://172.16.130.5/cp/huawei
 url-parameter ap-ip AP-IP ap-mac AP-MAC redirect-url redirect-url ssid ssid
user-ipaddress user-ipaddress user-mac user-mac sysname sysname ac-ip AC-IP
 url-parameter mac-address format delimiter : normal
#
web-auth-server wnam-server
 server-ip 172.16.130.5
 port 50200
 url http://172.16.130.5/cp/huawei
 url-template urlTemplate_0
 server-source ip-address ____mgmt__
#
portal-access-profile name wnam-portal-access-profile
 web-auth-server wnam-server layer3
#
aaa
 authentication-scheme default
 authentication-scheme radius
```

```
 authentication-mode radius
 authorization-scheme default
 accounting-scheme default
 accounting-mode radius
 accounting realtime 5
 accounting start-fail online
 domain default
 domain default_admin
#
wlan
 traffic-profile name default
 security-profile name default
 security-profile name default-mesh
 security wpa2 psk pass-phrase %^%#U/o>@VZq@K@@r-BP_rFX!&H3Gc`_{HZ<3|*AE(WR%^%#
aes
 ssid-profile name default
 ssid HUAWEI
 vap-profile name default
 authentication-profile wnam-authentication-profile
 mesh-handover-profile name default
 mesh-profile name default
 country-code RU
 air-scan-profile name default
 rrm-profile name default
 radio-2g-profile name default
 radio-5g-profile name default
 wids
#
interface Wlan-Radio0/0/0
 vap-profile default wlan 1
#
```

:

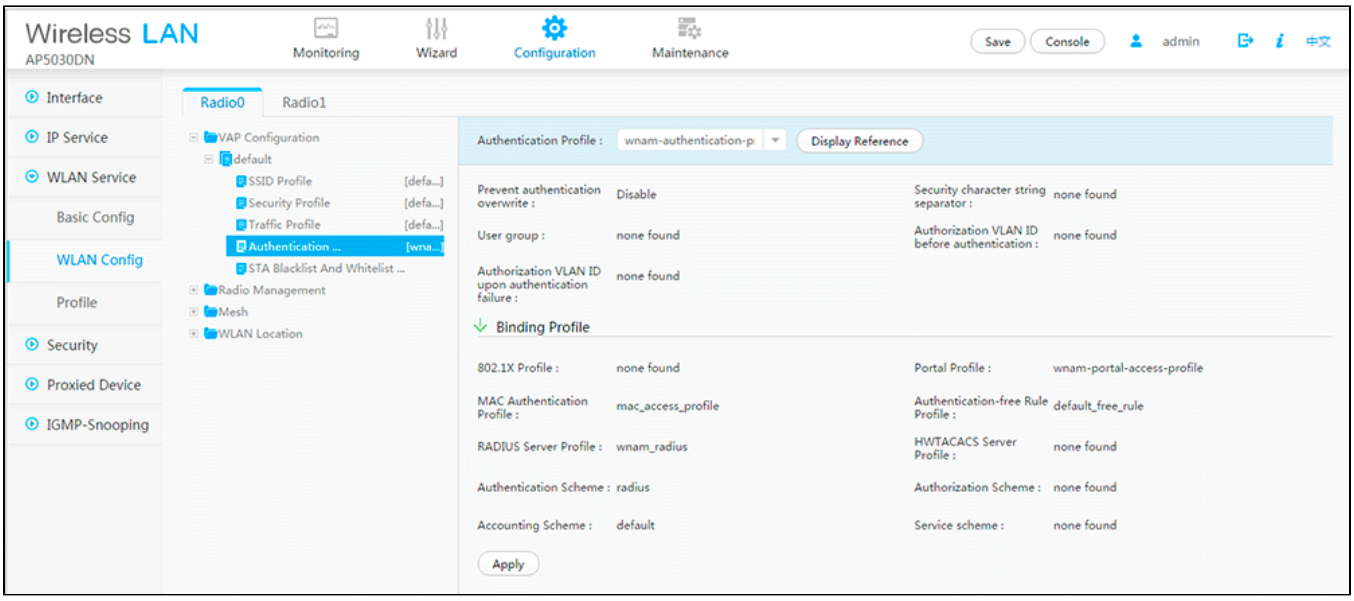
```
portal captive-bypass enable
```

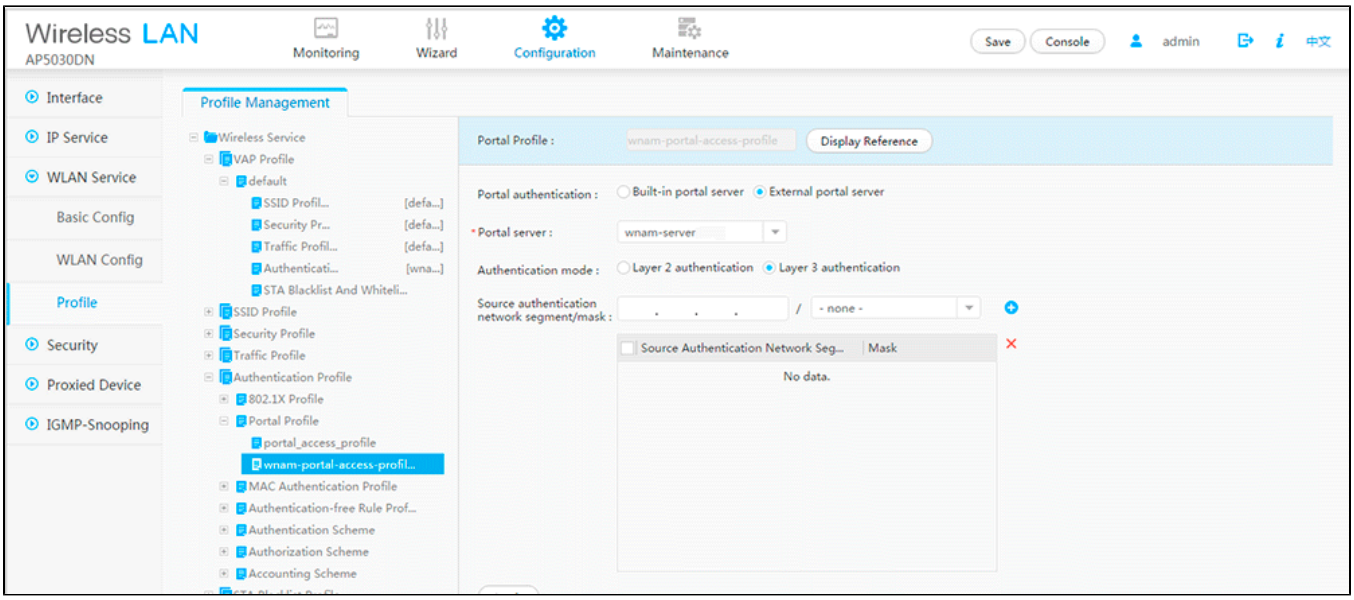
, Apple - , ( ) , . , , . , ( , https-) , .

CNA :

```
undo portal captive-bypass enable
```

, :


Wireless LAN
AP5030DN
Monitoring
Wizard
Configuration
Maintenance
Save
Console
admin
Interface
IP Service
WLAN Service
Basic Config
WLAN Config
Profile
Security
Proxied Device
IGMP-Snooping
Radio0
Radio1
VAP Configuration
default
SSID Profile [defa...]
Security Profile [defa...]
Traffic Profile [defa...]
Authentication ... [wna...]
STA Blacklist And Whitelist ...
Radio Management
Mesh
WLAN Location
Authentication Profile : wnam-authentication-p
Display Reference
Prevent authentication overwrite : Disable
Security character string separator : none found
User group : none found
Authorization VLAN ID before authentication : none found
Authorization VLAN ID upon authentication failure : none found
Binding Profile
802.1X Profile : none found
Portal Profile : wnam-portal-access-profile
MAC Authentication Profile : mac_access_profile
Authentication-free Rule Profile : default_free_rule
RADIUS Server Profile : wnam_radius
HWTACACS Server Profile : none found
Authentication Scheme : radius
Authorization Scheme : none found
Accounting Scheme : default
Service scheme : none found
Apply


Wireless LAN
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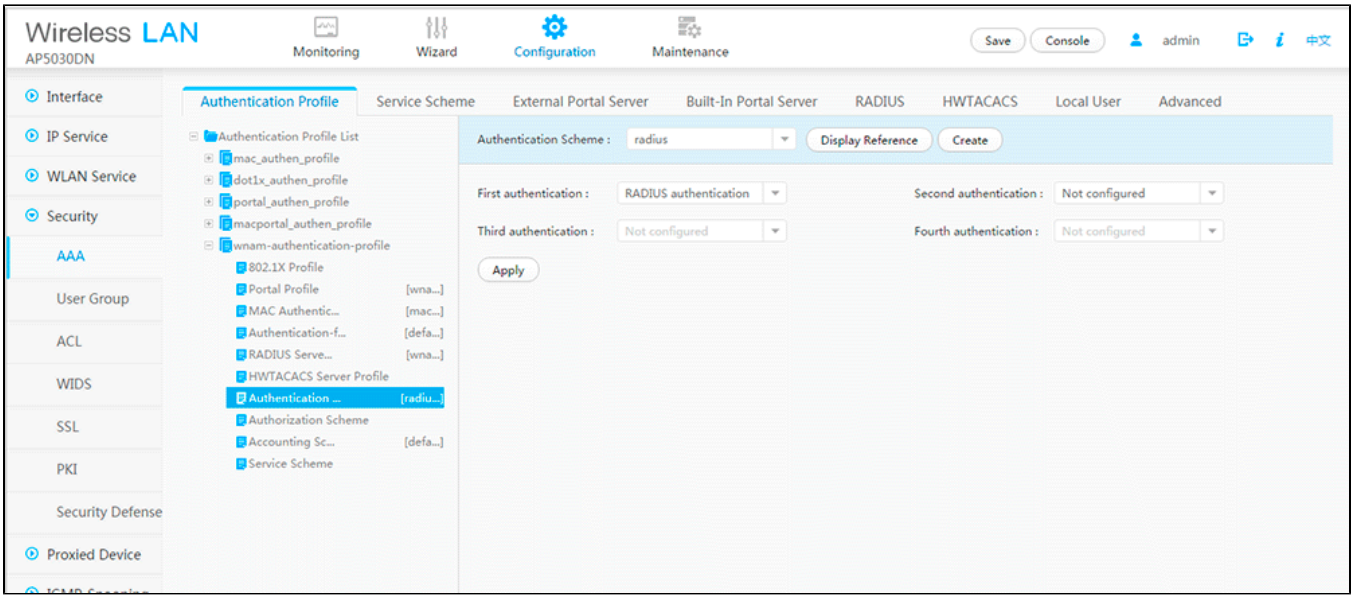
WLAN Service
Basic Config
WLAN Config
Profile
Security
Proxied Device
IGMP-Snooping
Profile Management
Wireless Service
VAP Profile
default
SSID Profil... [defa...]
Security Pr... [defa...]
Traffic Profil... [defa...]
Authenticati... [wna...]
STA Blacklist And Whiteli...
SSID Profile
Security Profile
Traffic Profile
Authentication Profile
802.1X Profile
Portal Profile
portal_access_profile
wnam-portal-access-profil...
MAC Authentication Profile
Authentication-free Rule Prof...
Authentication Scheme
Authorization Scheme
Accounting Scheme
Portal Profile : wnam-portal-access-profile
Display Reference
Portal authentication : Built-in portal server External portal server
Portal server : wnam-server
Authentication mode : Layer 2 authentication Layer 3 authentication
Source authentication network segment/mask : - none -
Source Authentication Network Seg... Mask
No data.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Configuration
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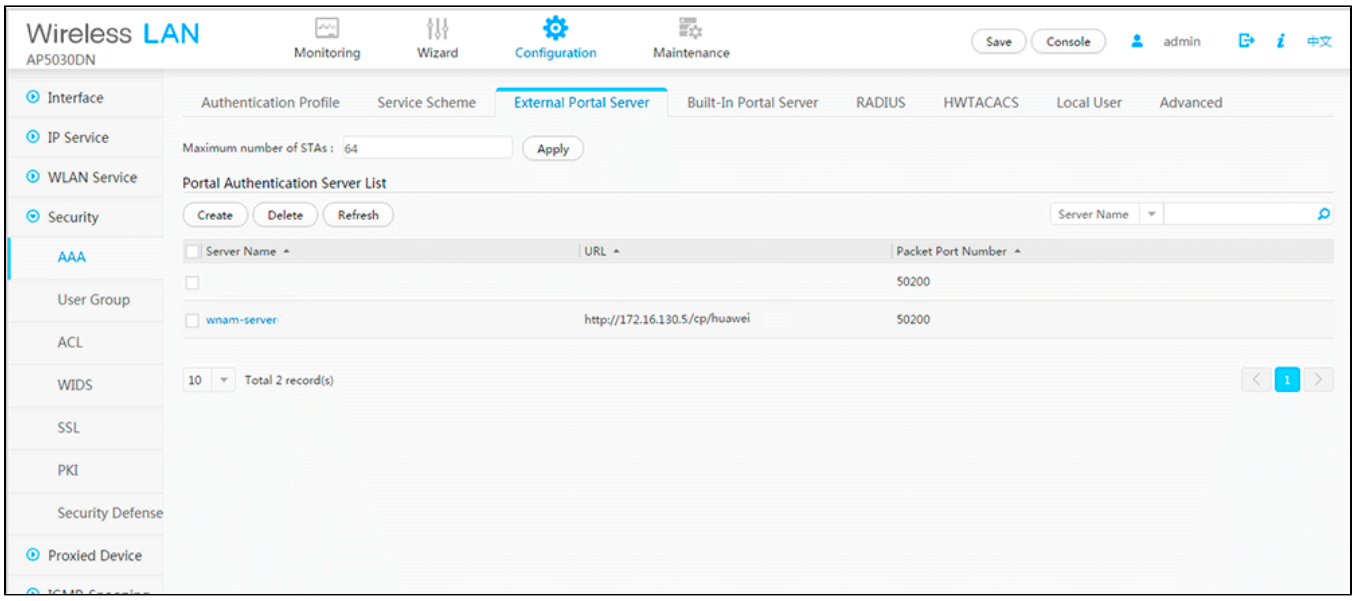
Save
Console
admin
Interface
IP Service
WLAN Service
Security
AAA
User Group
ACL
WIDS
SSL
PKI
Security Defense
Proxied Device
Authentication Profile
Service Scheme
External Portal Server
Built-In Portal Server
RADIUS
HWTACACS
Local User
Advanced
Authentication Profile List
mac_authen_profile
dot1x_authen_profile
portal_authen_profile
macportal_authen_profile
wnam-authentication-profile
802.1X Profile
Portal Profile [wna...]
MAC Authentic... [mac...]
Authentication-f... [defa...]
RADIUS Serve... [wna...]
HWTACACS Server Profile
Authentication ... [radiu...]
Authorization Scheme
Accounting Sc... [defa...]
Service Scheme
Authentication Scheme : radius
Display Reference
Create
First authentication : RADIUS authentication
Second authentication : Not configured
Third authentication : Not configured
Fourth authentication : Not configured
Apply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User Group
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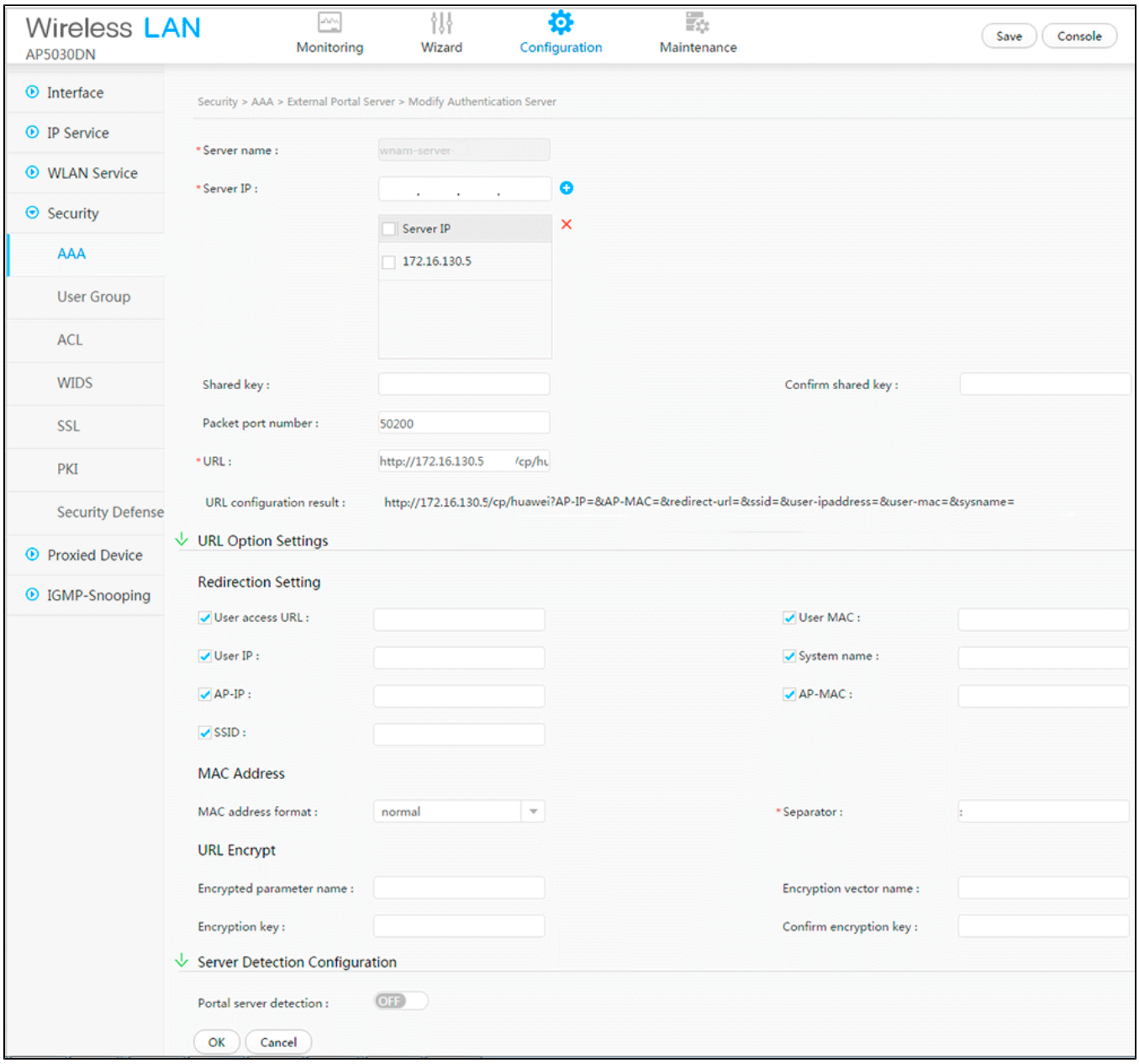
WIDS
SSL
PKI
Security Defense
Proxied Device
Authentication Profile
Service Scheme
External Portal Server
Built-In Portal Server
RADIUS
HWTACACS
Local User
Advanced
Maximum number of STAs : 64
Apply
Portal Authentication Server List
Create
Delete
Refresh
Server Name
Server Name
URL
Packet Port Number
50200
wnam-server
http://172.16.130.5/cp/huawei
50200
10
Total 2 record(s)
1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Configuration
Maintenance
Save
Console
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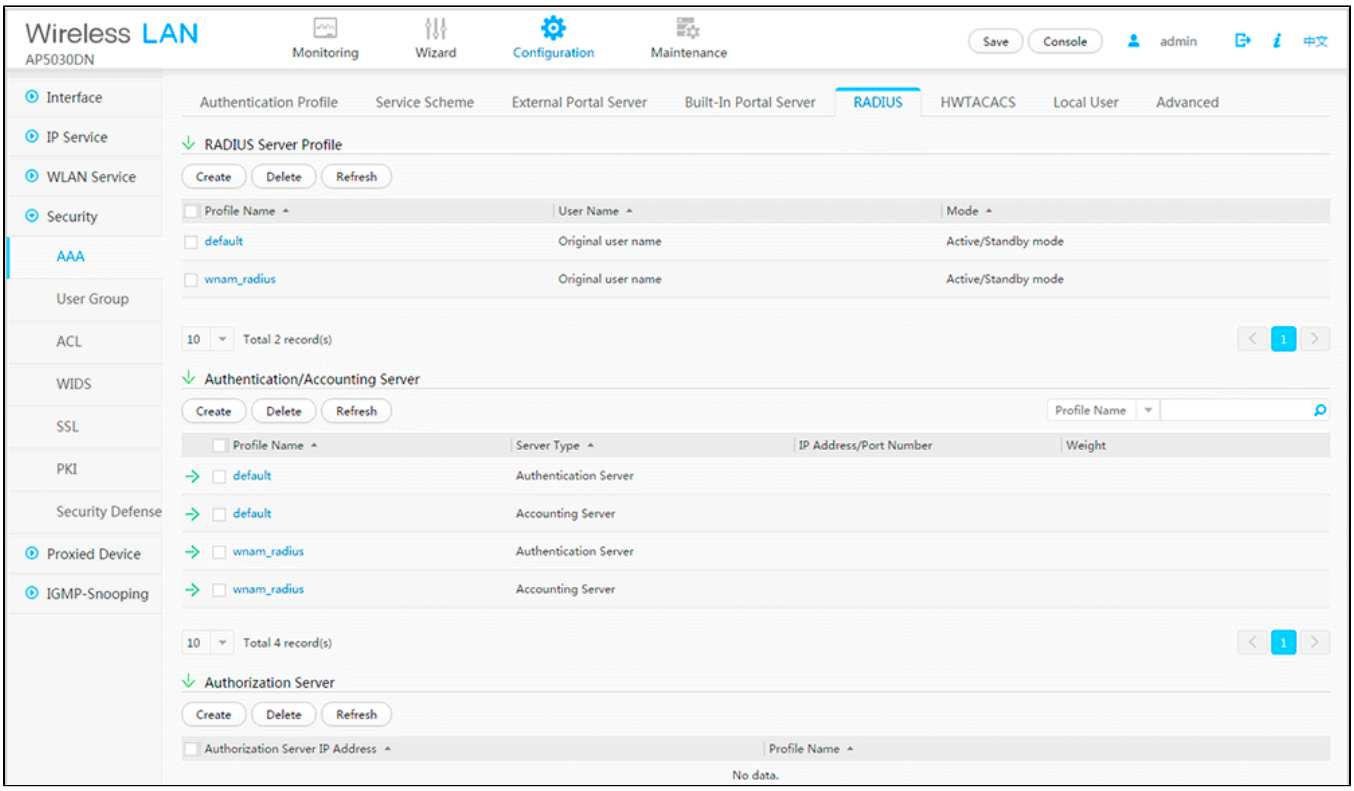
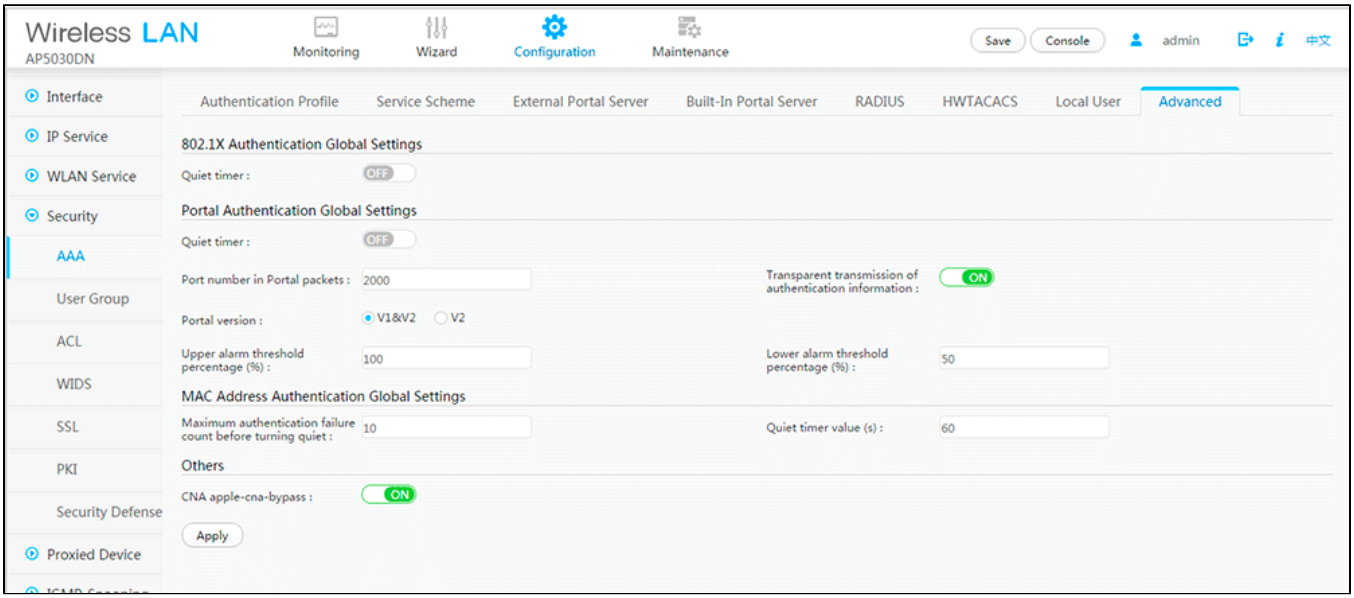
IP Service
WLAN Service
Security
AAA
User Group
ACL
WIDS
SSL
PKI
Security Defense
Proxied Device
IGMP-Snooping
Security > AAA > External Portal Server > Modify Authentication Server
*Server name :
wnam-server
*Server IP :
Server IP
172.16.130.5
Shared key :
Confirm shared key :
Packet port number :
50200
*URL :
http://172.16.130.5 /cp/hu
URL configuration result :
http://172.16.130.5/cp/huawei?AP-IP=&AP-MAC=&redirect-url=&ssid=&user-ipaddress=&user-mac=&sysname=
URL Option Settings
Redirection Setting
User access URL :
User MAC :
User IP :
System name :
AP-IP :
AP-MAC :
SSID :
MAC Address
MAC address format :
normal
*Separator :
:
URL Encrypt
Encrypted parameter name :
Encryption vector name :
Encryption key :
Confirm encryption key :
Server Detection Configuration
Portal server detection :
OFF
OK
Cancel




WNAM .

:

```
radius-attribute check Session-Timeout
radius-attribute check HW-Input-Committed-Information-Rate
radius-attribute check HW-Output-Committed-Information-Rate
```

, RADIUS-Accept WNAM . , (rx/tx) "" . , , , . , .

Wi-Fi - WNAM :

```
21:08:11.706 DEBUG [c.n.w.web.cp.CaptivePortalController:544] - CP huawei
redirect: mac=4C:57:CA:XX:XX:XX, ip=172.16.130.154, ap=d4:c8:b0:15:1d:40
[HUAWEI], server=Huawei, 192.168.0.5
21:08:11.722 DEBUG [c.n.w.web.cp.CaptivePortalController:1661] -
processAuthRequest HUAWEI: username=4C:57:CA:XX:XX:XX, ip=172.16.130.154,
server=Huawei, site_id=3, dst='http://www.ru/'
21:08:11.722 DEBUG [c.n.w.web.cp.CaptivePortalController:1804] -
processRedirectRequestCi mac=4C:57:CA:XX:XX:XX, method=FORM,
formName=58addf80bd045a2fa888c7a6, redirectUrl=http://www.ru/, key=33f0eb37-ee12-
4572-ad58-10a1c237de00
21:08:13.053 DEBUG [c.n.w.web.cp.CaptivePortalController:1530] - RedirectCi
login: site_id=3, username=4C:57:CA:2C:0F:4C, dst='http://www.ru/',
dst_extra='null'
21:08:13.053 DEBUG [c.n.w.web.cp.CaptivePortalController:2102] - loginAtNasCi
HUAWEI mac=4C:57:CA:XX:XX:XX, ip=172.16.130.154, server=Huawei, dst='http://www.
ru/'
21:08:13.057 DEBUG [com.netams.wnam.web.cp.Huawei:85] - backToHuawei login
len=439, server='172.16.130.75', username=4C:57:XX:XX:XX:XX, password=password,
dst='http://www.ru/'
21:08:13.079 INFO [WnamRadius:522] - AUTH for new session
ID=Huawei000000000000019e7f4f000019-2c0f4c, request MAC=4C:57:CA:XX:XX:XX,
IP=172.16.130.154, cust_clientid=iSE
21:08:13.112 INFO [WnamRadius:683] - ACCT Start new session
ID=Huawei000000000000019e7f4f000019-2c0f4c, MAC=4C:57:CA:XX:XX:XX, IP=172.
16.130.154, NAS=172.16.130.75
21:13:13.124 INFO [WnamRadius:683] - ACCT Interim-Update existing
(Huawei000000000000019e7f4f000019-2c0f4c) session
ID=Huawei000000000000019e7f4f000019-2c0f4c, MAC=4C:57:CA:XX:XX:XX, IP=172.
16.130.154, NAS=172.16.130.75
21:13:13.652 INFO [WnamRadius:683] - ACCT Stop existing
(Huawei000000000000019e7f4f000019-2c0f4c) session
ID=Huawei000000000000019e7f4f000019-2c0f4c, MAC=4C:57:CA:XX:XX:XX, IP=172.
16.130.154, NAS=172.16.130.75
```

Huawei .