









3.







---

# 1 AC

## 1.1 AC AC

### 1.1.1

### 1.1.2

```
write
show version detail show running-config show ac-config show ap-group
aps summary show ap-config summary show device-config summary show device-config map
summary show ap-config summary slot show wlandiag network
```

### 1.1.3 CLI

#### 1. AC AC

```
copy tftp://xxx.xxx.xxx.xxx/AC_RGOSXXX.bin flash:AC_RGOSXXX.bin
```

```
Hostname#copy tftp://172.29.25.146/AC_RGOS11.9(6)W3B1_G3C8-01_10201117_install.bin
flash:AC_RGOS11.9(6)W3B1_G3C8-01_10201117_install.bin
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Copy success.
```

11.9

11.1

```
Hostname#run-system-shell
~ # md5sum /data/AC_RGOS11.1(5)B30P3_G2C8-01_08181717_install.bin
30dc589ed1f16cccb82c0a05da76c3c4 /data/AC_RGOS11.1(5)B30P3_G2C8-01_08181717_install.bin
~ #
```



---

11.9

11.9(6)

---

---

```
Hostname#debug support
Hostname(support)#execute diagnose-cmd md5sum /data/AC_RGOS11.9(6)W3B1_G2C6-
01_10201117_install.bin
```



```
Hostname#upgrade flash:acxx.bin
%UPGRADE_COMMAND: Upgrade the device must be auto-reset after finish, are you sure upgrading
now?[Y/n]y
```



2.

**show version detail**

**show run**



```
no identify-application enable
no register device
no cwnp
```

---

---

wids

no identify-application enable

no cwp

mqtt-server enable

tftp-server enable

control-plane

anti-arp-spoof scan 20

---

---

## 1.2.2

**dir**

**show run show ap-config run**

**show version detail show running-config how ac-config show ap-group  
aps summary show ap-config summary show device-config summary show device-config map  
summary show ap-config summary slot show wlandiag network**

**show wlandiag network**

Hostname(config)#tftp-server enable

## 1.2.3 CLI

1. AC AP

---

---

```
AC6108#copy tftp://172.29.25.146/AP_RGOS11.9(6)W3B1_S2X2-03_10201119_install.bin
flash: AP_RGOS11.9(6)W3B1_S2X2-03_10201119_install.bin
Press Ctrl+C to quit

Copy success.
```

**11.9**

**11.1**

```
Hostname#run-system-shell
~ # md5sum /data/AP_RGOS11.1(9)B1P8_S1C2-199945Uef0500207B_InstallLa424 ref*EMC /P /MCID 87/La416 7n-BSL
3b7717f81a3b23ad68500423c77eb401 /data/ AP_RGOS11.1(9)9)/dL)en-9S
```

---



---

2.

show version all show version all slot

---

---

## 1.3.2

**dir**

**show run show ap-config run**

**show version detail show running-config show ac-config show ap-group  
aps summary show ap-config summary show device-config summary show device-config map  
summary show ap-config summary slot show wlandiag network**

**show wlandiag network**

```
Hostname(config)#tftp-server enable
```

## 1.3.3 CLI

```
copy tftp://xxx.xxx.xxx.xxx/AP_RGOSXXX.bin flash:AP_RGOSXXX.bin flash: AP_RGOSXXX.bin  
flash:AP_RGOSXXX.bin
```

```
AC6108#copy tftp://172.29.25.146/AP_RGOS11.9(6)W3B1_S1X2-07_10201121_install.bin flash:  
AP_RGOS11.9(6)W3B1_S1X2-07_10201121_install.bin  
Press Ctrl+C to quit
```

```
Cońfí ħ:
```

---

---

```
~ # md5sum /data/AP_RGOS11.1(9)B1P8_S1C2-15-C-FULL_05242018_install.bin  
3b7717f81a3b23ad68500423c77eb401 /data/AP_RGOS11.1(9)B1P8_S1C2-15-C-FULL_05242018_install.bin  
~ #
```

---



---

**11.9**

**11.9(6)**

---

---

**show device-config upgrading-list**

**show device-config version summary**

**device-config map sum**

**show device-config summary**

**show ap-config summary**

```
Hostname(config)#no device-upgrade mac xxxx.xxxx.xxxx url  
ftp://ruijie:ruijie123@x.x.x.x/am.bin  
Hostname(config)#device-upgrade url ftp://ruijie:ruijie123@x.x.x.x/am.bin
```

### **1.3.4**

## **1.4 AC AP**

### **1.4.1**

---



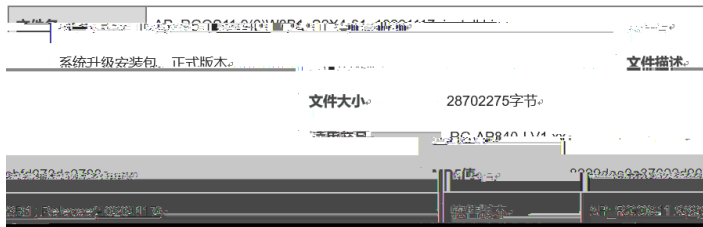
~ #



11.9

11.9(6)

```
Hostname#debug support
Hostname(support)# execute diagnose-cmd md5sum /data/AP_RGOS11.9(6)W3B1_S2X4-
01_10201117_install.bin
8229dee0a37622d967abfd673dc2788a /data/AP_RGOS11.9(6)W3B1_S2X4-01_10201117_install.bin
```



```
Hostname(config)#ac-controller
Hostname(config-ac)#no ap-image auto-upgrade
Hostname(config-ac)#active-bin-file AP_RGOSXXX.bin
```

```
Hostname(config)# ap-config apXXX
Hostname(config-ap)#ap-image AP_RGOSXXX.bin
```

```
AC(config)#ac-controller
AC(config-ac)#no ap-image auto-upgrade
AC(config-ac)#active-bin-file apxx.bin
AC(config)#ap-con ap880
AC(config-ap)#ap-image apxx.bin
```

**show ap-config updating**

**show version all**

**no ap-image**

```
Hostname(config)#ac-controller
```



---

# 2 VAC

2.1 VAC AC

2.1.1

---

---





---

**11.9**

**11.9(6)**

```
Hostname#debug support
Hostname(support)#execute diagnose-cmd md5sum /data/AC_RGOS11.9(6)W3B1_G2C6-
01_10201117_install.bin
ff916c65a57da14fb3b264452d6bad67 /data/AC_RGOS11.9(6)W3B1_G2C6-01_10201117_install.bin
```



```
Hostname#upgrade flash:acxx.bin
%UPGRADE_COMMAND: Upgrade the device must be auto-reset after finish, are you sure upgrading
now?[Y/n]y
```



---

**2. Web**

---





3.

**show version detail**

**show run**

---



```
no identify-application enable
no register device
no cwmp
frn
ac-controller
    no ac-control disable
wlan-cap
    forward central
wids
black-white-list
no identify-application enable
no cwmp
mqtt-server enable
tftp-server enable
control-plane
    anti-arp-spoof scan 20
    attack threshold 500
control-plane protocol
    no acpp
control-plane manage
    no port-filter
    no arp-car
    no acpp
control-plane data
    no glean-car
    no acpp
frn
```

**show ap-config sum show device-config sum show device-config map sum show ap-con  
sum slot**

---

---

**show dot1x summary**

06A2>]ÉÀC

**show web-auth user all**

':\$Õs€²ÄËË± 5N Ñ "b6&óN±UTq 3 }Éà

## 2.1.4



---

**show version detail show running-config show ac-config show ap-group  
aps summary show ap-config summary show device-config summary show device-config map  
summary show ap-config summary slot show wlandiag network show virtual-ac balance-info**

**show wlandiag network**

```
Hostname(config)#tftp-server enable
```

```
AC#sh tftp-server  
tftp-server information  
=====
```

enable : Y
------------

```
topdir : flash:/tftp-server
```

### 2.2.3

#### 1. CLI

```
copy tftp://xxx.xxx.xxx.xxx/AP_RGOSXXX.bin flash:AP_RGOSXXX.bin
```

```
AC6108#copy tftp://172.29.25.146/AP_RGOS11.9(6)W3B1_S2X2-03_10201119_install.bin  
flash:AP_RGOS11.9(6)W3B1_S2X2-03_10201119_install.bin  
Press Ctrl+C to quit  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
Copy success.
```

**11.9 11.1**

```
Hostname#run-system-shell  
~ # md5sum /data/AP_RGOS11.1(9)B1P8_S1C2-15-C-FULL_05242018_install.bin  
3b7717f81a3b23ad68500423c77eb401 /data/AP_RGOS11.1(9)B1P8_S1C2-15-C-FULL_05242018_install.bin  
~ #
```



---

**11.9 11.9(6)**

```
Hostname#debug support  
Hostname(support)# execute diagnose-cmd md5sum /data/AP_RGOS11.9(6)W3B1_S2X2-  
03_10201119_install.bin
```

---

---

6c23de60803e3102eff69c301fba264c /data/AP\_RG0S11.9(6)W3B1\_S2X2-03\_10201119\_install.bin

---



---

```
Hostname(config)#ac-controller
Hostname(config-ac)#no ap-image auto-upgrade
Hostname(config-ac)#active-bin-file AM_RGOSXXX.bin
```

```
Hostname(config)#ap-config xxx
Hostname(config-ap)#ap-image AM_RGOSXXX.bin
```

```
AC(config)#ac-controller
[REDACTED]
```

**show ap-config updating**

**show version all**

**show ap-config sum slot**

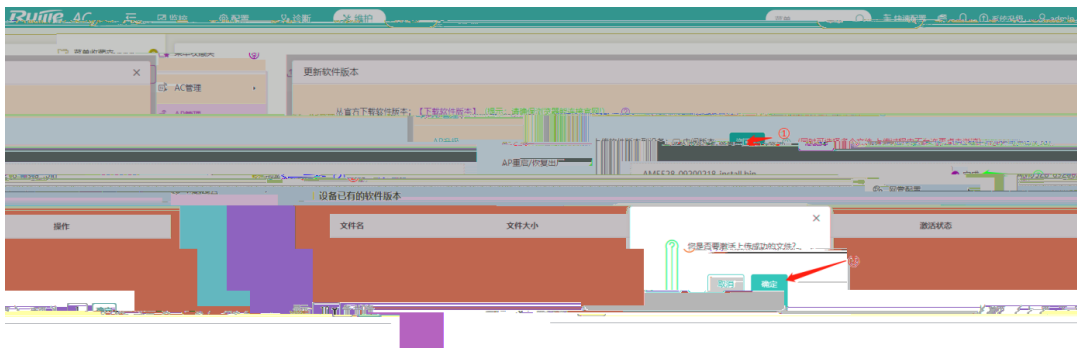
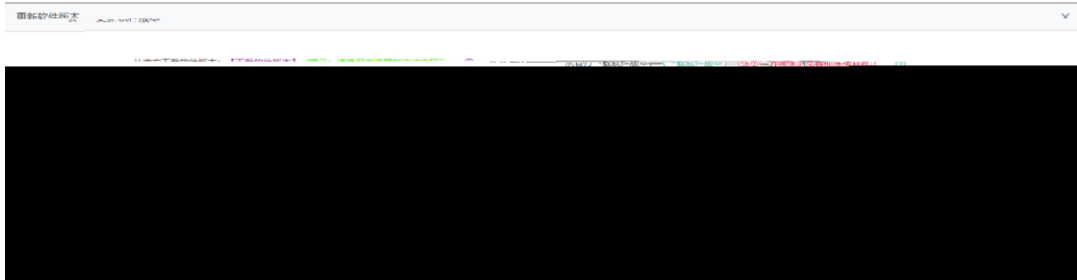
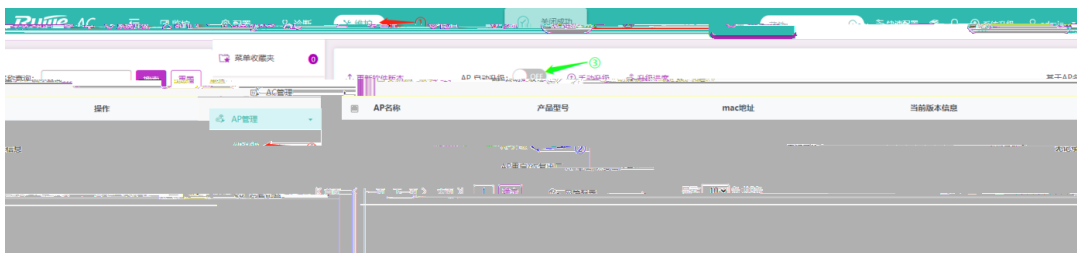
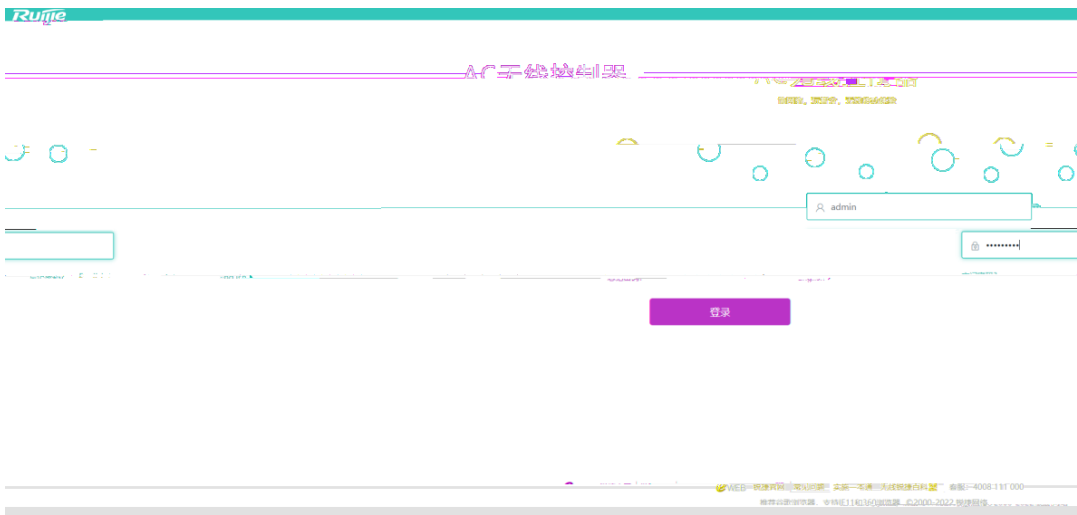
**no ap-image**

```
Hostname(config)#ac-controller
Hostname(config-ac)#ap-image auto-upgrade
```

```
AC(config)#ap-con am5532
AC(config-ap)#no ap-image
AC(config)#ac-controller
AC(config-ac)#ap-image auto-upgrade
```

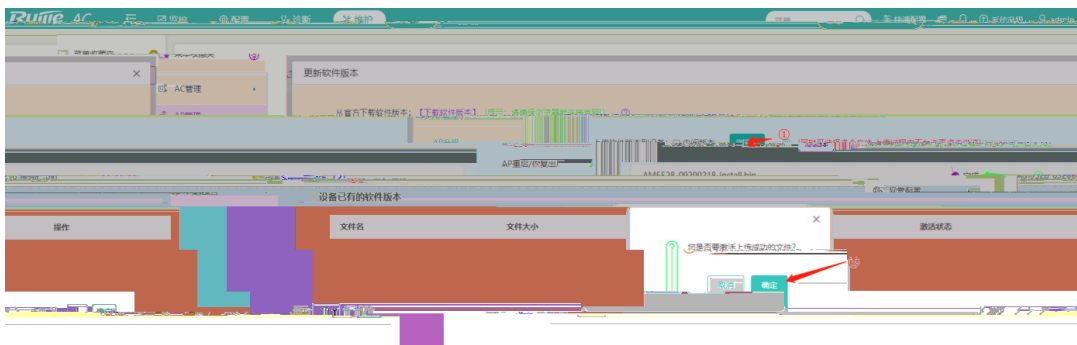
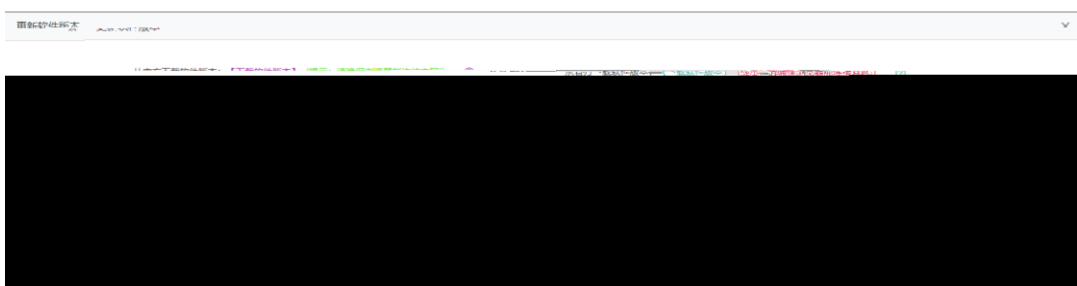
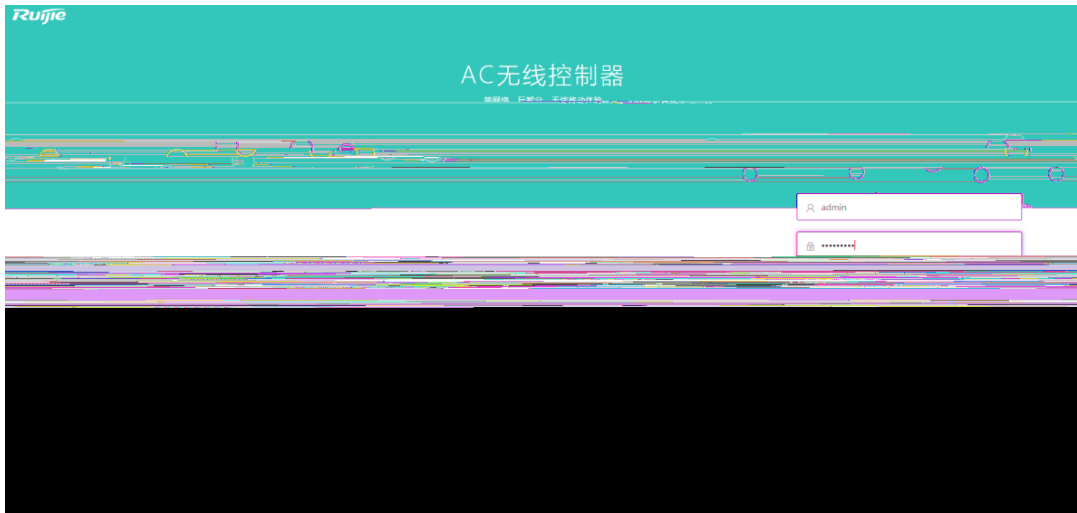
## **2. Web**

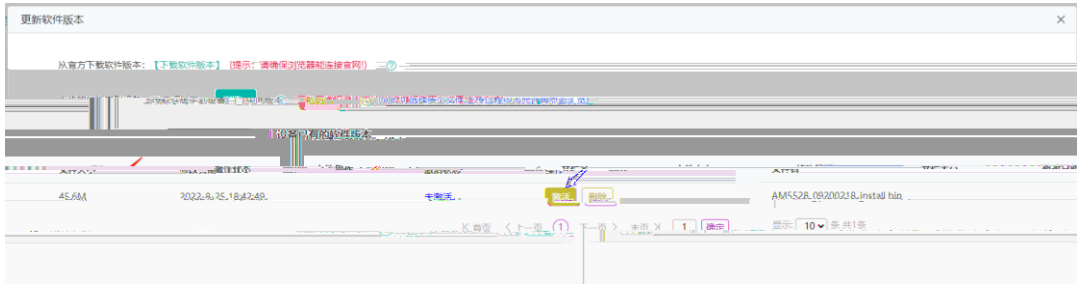
**VAC AP**



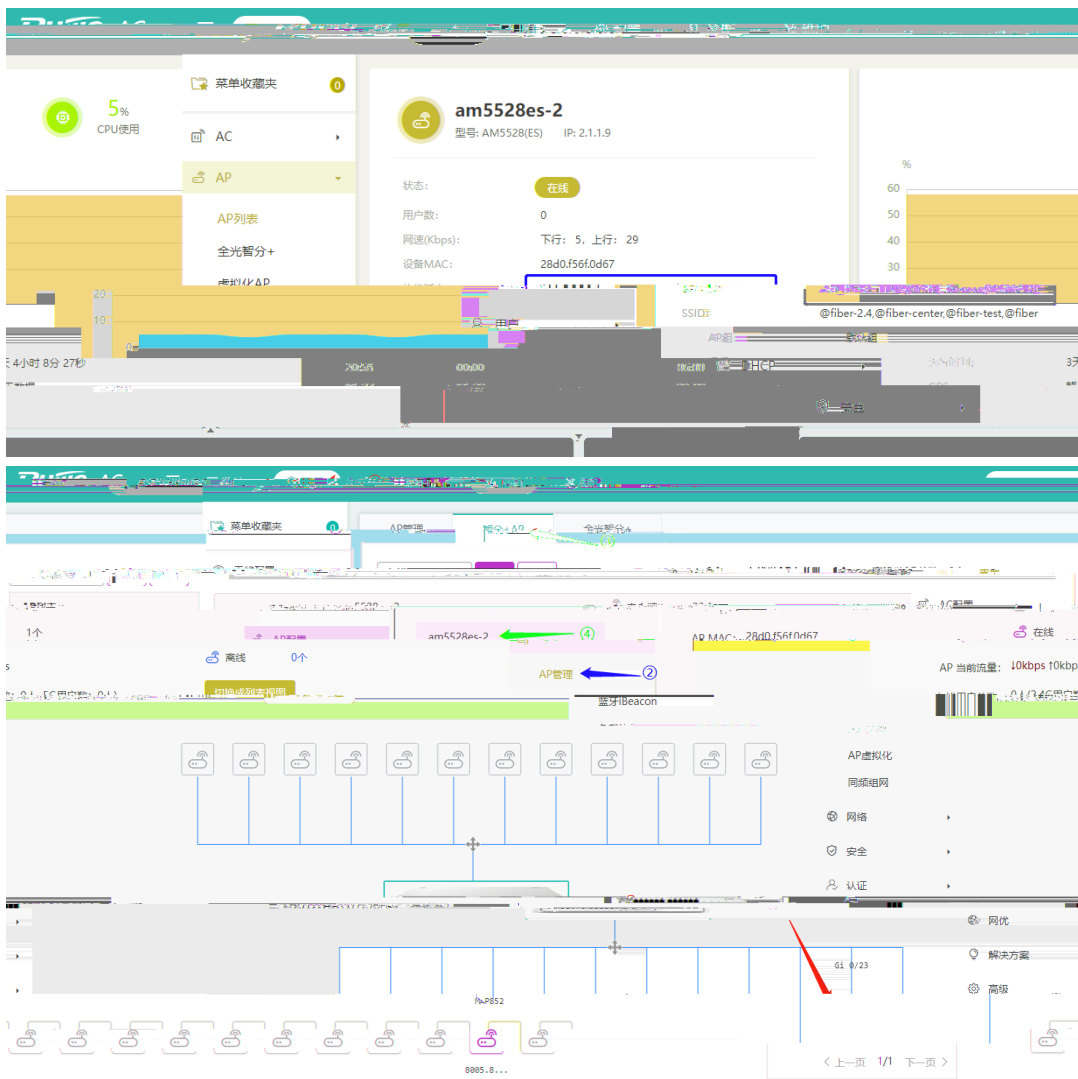












3.

**show version all show version all slot**

**show ac-config client**

**show dot1x summary**

**show web-auth user all**

---

2.2.4

2.3 VAC

AP

2.3.1

---

---

```
Hostname(config)#tftp-server enable
```

```
AC#sh tftp-server
tftp-server information
=====
enable : Y
topdir : flash:/tftp-server
```

### 2.3.3

#### 1. CLI

```
copy tftp://xxx.xxx.xxx.xxx/AP_RGOSXXX.bin flash:AP_RGOSXXX.bin
```

```
AC6108#copy tftp://172.29.25.146/AP_RGOS11.9(6)W3B1_S1X2-07_10201121_install.bin flash:
AP_RGOS11.9(6)W3B1_S1X2-07_10201121_install.bin
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Copy success.
```

**11.9**

**11.1**

```
Hostname#run-system-shell
~ # md5sum /data/AP_RGOS11.1(9)B1P8_S1C2-15-C-FULL_05242018_install.bin
3b7717f81a3b23ad68500423c77eb401 /data/AP_RGOS11.1(9)B1P8_S1C2-15-C-FULL_05242018_install.bin
~ #
```



**11.9**

**11.9(6)**

```
Hostname#debug support
Hostname(support)# execute diagnose-cmd md5sum /data/AP_RGOS11.9(6)W3B1_S1X2-
07_10201121_install.bin
df38ddc8c0d46f94809286d61107105d /data/AP_RGOS11.9(6)W3B1_S1X2-07_10201121_install.bin
```



14字符	RG-MAP852-SF-S V1.xx-	328736
	df38ddc8c0d46f94809286d61107105d-	适用产品
	AP_RGOS11.9(6)W3B1, Release(10201121)-	MD5值
		软件版本

```

Hostname(config)#ftp-server enable
Hostname(config)#ftp-server topdir flash:/
Hostname(config)#ftp-server username ruijie password ruijie123

```

### show ftp-server

```

AC(config)#sh ftp-server
ftp-server information
=====
enable : Y
topdir : flash:/
timeout: 10min
username:ruijie

```

```

Hostname(config-ac)#device-upgrade mac xxxx.xxxx.xxxx url
ftp://ruijie:ruijie123@x.x.x.x/am.bin

```

### show device-config sum

```

AC(config)#sh device-config summary
=====
Online device number: 1
Offline device number: 2

```

### show device-config upgrading-list

### show device-config version summary

show device-config map sum

show device-config summary

show ap-config summary

```

Hostname(config)#no device-upgrade mac xxxx.xxxx.xxxx url
ftp://ruijie:ruijie123@x.x.x.x/am.bin

```

---

```
Hostname(config)#device-upgrade url ftp://ruijie:ruijie123@x.x.x.x/am.bin
```

**2. Web**

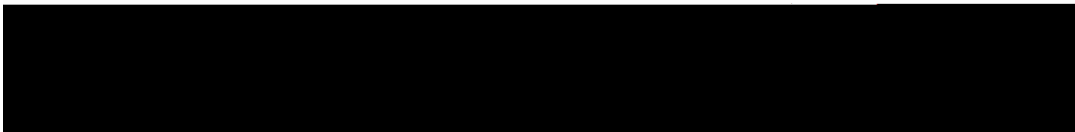
**VAC +**





The screenshot shows a network management interface with a table of AP devices. The table has columns for AP Name, MAC Address, IP Address, Location, AP Group, Model, and Status. The first row shows an AP named 'am5528es-2' with MAC '28d0.f56f0d67' and IP '2.1.1.9', which is online. Below the table, there are details for a specific AP, including its MAC address '5416.51a7.b54a', IP '2.1.1.3', and status 'Offline'. A dropdown menu is visible on the left side of the interface.

AP名称	MAC地址	IP地址	位置	AP组	型号	状态
am5528es-2	28d0.f56f0d67	2.1.1.9		默认组	AM5528(ES)	在线
SSL-C-5F-2	c470.abee.3a37			默认组		不在线
	5416.51a7.b54a	2.1.1.3		默认组		不在线
	8005.88af.604d			默认组		不在线



The screenshot shows the details page for an AP device named 'map852-sf-m-1'. The device is online and has a MAC address of '28d0.f56f0d67' and an IP address of '2.1.1.9'. The interface includes a '虚拟AP' (Virtual AP) section with a dropdown menu and a 'DHCP' section. A text box contains the string 'AP\_RGOS 11.9(6)W189\_Release(09192510)'. The interface also shows a '菜单收藏夹' (Menu Favorites) section with a count of 0.

The screenshot shows a network management interface with a table of AP devices. The table has columns for AP Name, Product Model, MAC Address, and Current Version. The first row shows an AP named 'am5528es-2' with product model 'AM5528(ES)', MAC address '28d0.f56f0d67', and current version 'V100R003C00B001'. The interface also shows a '虚拟AP' (Virtual AP) section with a dropdown menu.

AP名称	产品型号	mac地址	当前版本
am5528es-2	AM5528(ES)	28d0.f56f0d67	V100R003C00B001



### 2.3.4

## 2.4 VAC AP

### 2.4.1

### 2.4.2

show virtual-ac resource

---

```
N18K-WS-VAC#show virtual-ac resource
Device_id CPU(5s) CPU(1m) CPU(5m) Memory Flash
-----
1          0.30%  0.20%  0.30%  40%   26% (206716KB free)
2          0.30%  0.20%  0.20%  40%   51% (137748KB free)
```

**show run show ap-config run**

**show version detail show running-config show ac-config show ap-  
group aps summary show ap-config summary show device-config summary show device-  
config map summary show ap-config summary slot show wlandiag network show virtual-ac  
balance-info**

**show wlandiag network**

```
Hostname(config)#tftp-server enable
```

## 2.4.3

### 1. CLI

```
copy tftp://xxx.xxx.xxx.xxx/AP_RGOSXXX.bin flash:AP_RGOSXXX.bin
```

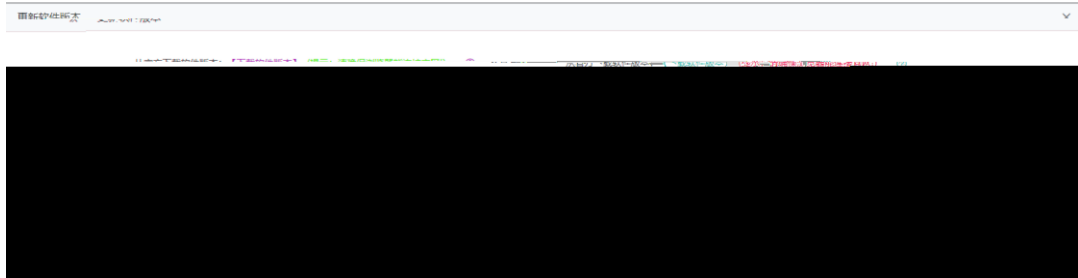
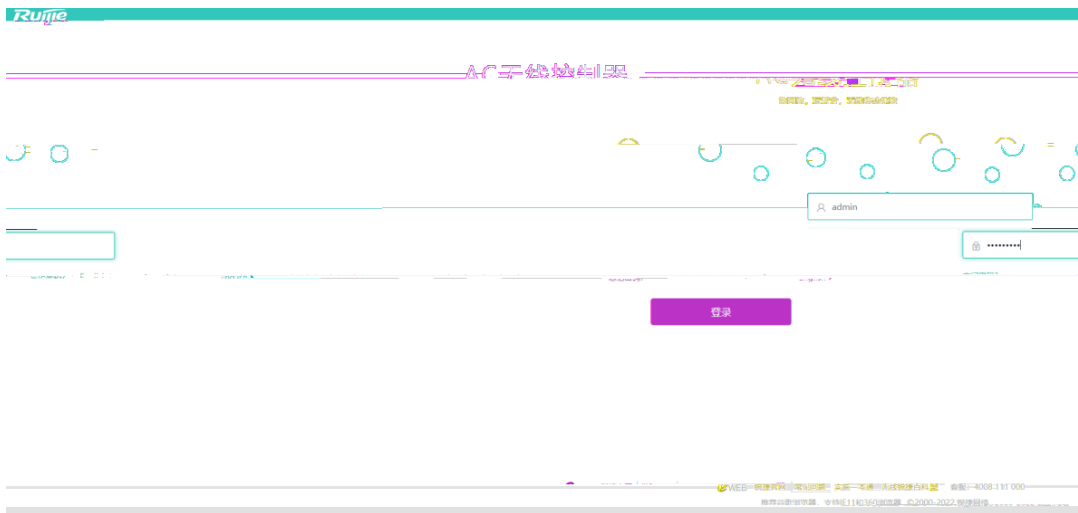
```
84 g[113 g (en-US)>BDC BT1 0 0 133.22fi pi as
```

---



```
AC(config)#ap-con ap880
AC(config-ap)#no ap-image
AC(config)#ac-controller
AC(config-ac)#ap-image auto-upgrade
```

## 2. Web







---

3.

show version all

show ap-config sum show device-config sum show device-config map sum show ap-con  
sum slot

show ac-config client

show dot1x summary

show web-auth user all

2.4.4

---

---

# 3

## 3.1 AC

### 3.1.1

write

summary show run show ap-group aps

### 3.1.2

show version detail show running-config show ac-config show ap-group aps summary show ap-config summary show device-config summary show device-config map summary show ap-config summary slot show wlandiag network

### 3.1.3 CLI

#### 1. AC

```
copy tftp://xxx.xxx.xxx.xxx/AC_RGOSXXX.bin flash:AC_RGOSXXX.bin
```

```
Hostname#copy tftp://172.29.25.146/AC_RGOS11.9(6)W3B1_G3C8-01_10201117_install.bin
flash:AC_RGOS11.9(6)W3B1_G3C8-01_10201117_install.bin
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Copy success.
```

11.9

11.1

```
Hostname#run-system-shell
~ # md5sum /data/AC_RGOS11.1(5)B30P3_G2C8-01_08181717_install.bin
```

---

---

```
30dc589ed1f16cccb82c0a05da76c3c4 /data/AC_RGOS11.1(5)B30P3_G2C8-01_08181717_install.bin
~ #
```

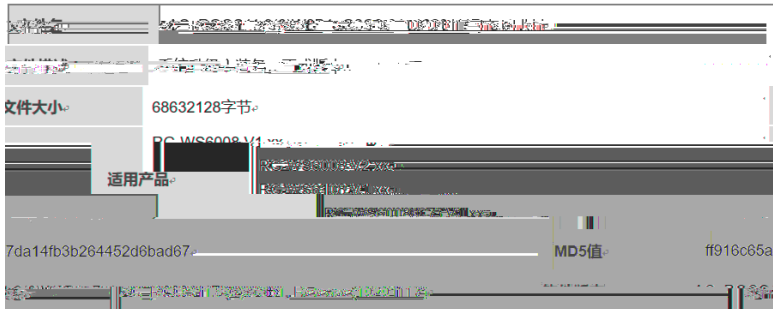


---

**11.9**

**11.9(6)**

```
Hostname#debug support
Hostname(support)#execute diagnose-cmd md5sum /data/AC_RGOS11.9(6)W3B1_G2C6-
01_10201117_install.bin
ff916c65a57da14fb3b264452d6bad67 /data/AC_RGOS11.9(6)W3B1_G2C6-01_10201117_install.bin
```



```
Hostname#upgrade flash:acxx.bin
%UPGRADE_COMMAND: Upgrade the device must be auto-reset after finish, are you sure upgrading
now?[Y/n]y
```



---

**show ap-config summary**

```
Hostname#upgrade flash:acxx.bin
```

```
Hostname#upgrade flash:acxx.bin
%UPGRADE_COMMAND: Upgrade the device must be auto-reset after finish, are you sure upgrading
now?[Y/n]y
```



---

2.

**show version detail**

---

3.1.4

3.2

AP

3.2.1

3.2.2

dir

show run show ap-config run

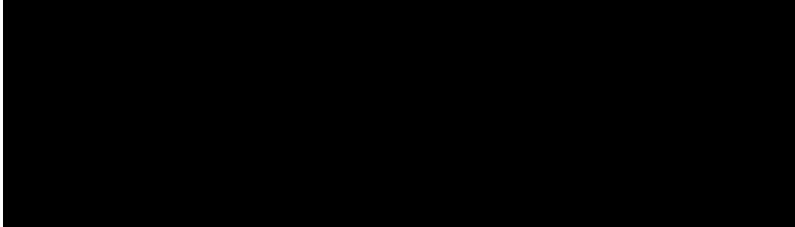
---



6c23de60803e3102eff69c301fba264c /data/AP\_RGOS11.9(6)W3B1\_S2X2-03\_10201119\_install.bin



文件名:	AP_RGOS11.9(6)W3B1_S2X2-03_10201119_install.bin
文件描述:	系统升级安装包，正式版本



```
Hostname(config)#ac-controller  
Hostname(config-ac)#no ap-image auto-upgrade  
Hostname(config-ac)#active-bin-file apxx.bin
```

```
Hostname(config)#ap-config xxx  
Hostname(config-ap)#ap-image apxx.bin
```

```
AC(config)#ac-controller  
AC(config-ac)#no ap-image auto-upgrade  
AC(config-ac)#active-bin-file ap09152120.bin  
AC(config)#ap-con am5532  
AC(config-ap)#ap-image ap09152120.bin
```

**show ap-config updating**

**show version all slot**

**no ap-image**

```
Hostname(config)#ac-controller  
Hostname(config-ac)#ap-image auto-upgrade
```

```
AC(config)#ap-con am5532  
AC(config-ap)#no ap-image  
AC(config)#ac-controller  
AC(config-ac)#ap-image auto-upgrade
```

---

```
Hostname(config)#ac-controller  
Hostname(config-ac)#no ap-image auto-upgrade  
Hostname(config-ac)#active-bin-file AM_RGOSXXX.bin
```

```
Hostname(config)#ap-config xxx  
Hostname(config-ap)#ap-image AM_RGOSXXX.bin
```

**show ap**

---

---

**3.2.4**

**3.3**

**AP**

**3.3.1**





```
Hostname(config)#ftp-server enable  
Hostname(config)#ftp-server topdir flash: /  
Hostname(config)#ftp-server username ruijie password ruijie123
```

**show ftp-server**

```
device-upgrade mac xxxx.xxxx.xxxx url ftp://ruijie:ruijie123@x.x.x.x/am.bin
```

**show device-config sum**

**show device-config upgrading-list**

---

---

```
Hostname(config)#no device-upgrade mac xxxx.xxxx.xxxx url  
ftp://ruijie:ruijie123@x.x.x.x/am.bin  
Hostname(config)#device-upgrade url ftp://ruijie:ruijie123@x.x.x.x/am.bin
```

### 3.3.4





---

**show ap-config sum show device-config sum show device-config map sum show ap-con sum slot**

**show ac-config client**

**show dot1x summary**

**show web-auth user all**

### **3.4.4**

---

---

10	-rw-	110B	Thu Jan 1 00:03:54 1970	black-white-list-config.txt
11	-rw-	110B	Mon Jan 5 22:09:33 1970	black-white-list.csv
12	d---	288B	Thu Jan 1 00:00:44 1970	metrics
13	-rw-	40.0k	Fri Apr 3 01:11:08 1970	webLog.db
14	-rwx	21B	Thu Jan 1 00:03:54 1970	syslog_rfc5424_flag.txt
15	drwx	496B	Thu Jan 1 08:29:10 1970	portal
16	-rw-	34B	Thu Jan 1 12:10:49 1970	dhcp_snp.dat
17	drwx	232B	Thu Jan 1 00:00:06 1970	wlan_bs
18	-rwx	300B	Thu Jan 1 08:26:28 1970	ecc_private.bin
19	-rwx	1.6k	Thu Jan 1 00:00:40 1970	rsa_private.bin
20	-rw-	0B	Thu Jan 15 00:25:43 1970	portList.json

---

---

## 4.3

### 4.3.1 CLI



---

```
upgrade download tftp://xxx.xxx.xxx.xxx/AP_RGOSXXX.bin
```

```
Hostname#upgrade download tftp://10.48.40.55/AP_RGOS11.9(6)W5_S1E16-233_11193006_install.bin
Upgrade the device must be auto-reset after finish, are you sure upgrading now?[Y/n]y
% Copy to /tmp/vsd/0/AP_RGOS11.9(6)W5_S1E16-233_11193006_install.bin
Please wait for a moment.....
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Begin to upgrade the install package AP_RGOS11.9(6)W5_S1E16-233_11193006_install.bin...
```

```
Upgrade info [OK]
```

```
Invalid package file
```

```
Device don't support
```

```
The version in device is newer or the same
```

```
No enough space for decompress
```

```
No enough space, rootfs been destroyed. Please upgrade in uboot
```

```
Already exist patch, please uninstall before upgrade
```

```
Patch compatibility err
```

```
Some origin component has change
```

---

### show version detail

```
Hostname#show version detail
System description      : Ruijie AP9861-R (802.11a/n/ac/ax/be and 802.11b/g/n/ax/be) By Ruijie Networks.
System start time      : 1970-01-01 00:00:00
System uptime         : 4:21:37:55
System hardware version : 1.00
System software version : AP_RGOS 11.9(6)W5, Release(11193006) //

System patch number    : NA
System software number : M06253407302024
System serial number   : G1T02VPxxxxxx
System boot version    : 1.0.5.6d3accaff2(231225)
System core version    : 2.6.32.a10123285baa99
```

## 4.3.2 Web

