



# **Ruijie RG-WLAN Series Wireless Controllers RGOS Release Notes, 11.9(5)B1**

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**Release Date: Dec. 3<sup>rd</sup>, 2019**

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## Basic Information

Table 1 lists the basic information of the current release.

**Table 1 Basic Information of the Current Release**


<b>Current Release</b>	RGOS 11.9(5)B1
<b>Previous Release</b>	RGOS 11.9(4)B1
<b>Applicable Product</b>	<b>c series :</b> WS6108, WS6008 <b>d series:</b> WS6816 <b>e series:</b> M8600E-WS-ED, M18000-WS-ED
<b>Category</b>	Official release

Use the **show version** command to display information about the software version.

```
WS6108#show version detail
System description      : Ruijie 10G Wireless Switch(WS7208-A) By Ruijie
Networks.
System start time      : 2019-12-08 14:45:43
System uptime         : 0:02:23:10
System hardware version : 1.00
System software version : AC_RGOS 11.9(5)B1, Release(06240614)
System patch number    : NA
System software number  : M14093512062019
System serial number   : H1MB0GY000755
System boot version    : 3.3.1.b0cc174(191018)
System core version    : 4.4.52.b2016415ca22fe
System cpu partition   : 1-3
```

### Release Number Description

Software number M20015609252015 indicates 20:01:56 on September 25, 2015.

-  1) Release number is formatted as AABBCDD. 2) AA indicates year. 01 stands for 2014, 02 for 2015 and so on. 3) BB indicates month. 13 stands for January, 14 for February and so on. 4) CC indicates date. 5) DD indicates time in 24-hour format, e.g., 16 stands for 4pm.

Take release number 02212520 for example. It indicates 8pm on September 25, 2015.

## Hardware Supported

Table 2 shows the hardware supported by the RGOS 11.9(5)B1.

**Table 2 Supporting Hardware Models**

Hardware Model	Version	Description
WS6008	1.1x, 1.2x, 1.5x, 2.0x	8 1000BASE-T ports, 2 1000BASE-T/1000BASE-X ports (combo)
WS6108	1.0x, 1.1x	8 1000BASE-T ports, 2 1000BASE-T/1000BASE-X ports (combo)
WS6816	1.0x, 1.1x	8 1000BASE-T/1000BASE-X ports (combo), 4 1G/10GBASE-X SFP+ ports, Expansion to 16 1000BASE-T/1000BASE-X ports (combo) or 8 1G/10GBASE-X SFP+ ports
M8600E-WS-ED	1.0x, 1.1x, 2.0x	WS Series Wireless Controller Module for RG-S8605E/S8607E/S8610E Switch, 128 APs License by default, Up to 2,560 Indoor APs or 4,000 Wall APs License
M18000-WS-ED	1.0x, 1.1x, 2.0x	WS Series Wireless Controller Module for RG-N18000 Switch, 128 APs License by default, Up to 2,560 Indoor APs or 4,000 Wall APs License



### Note

The hardware version number is rounded to the first decimal place. The numeral in the second decimal place does not change the supporting release.


## New Features

### RRM 2.0 Supporting Group-based Network Optimizing

<b>Description</b>	<p>RRM 2.0 supports group-based network optimizing to:</p> <ol style="list-style-type: none"> <li>1. set the scheduled time;</li> <li>2. trigger automatic RF adjustments;</li> <li>3. enable RRM 2.0 features.</li> </ol>
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<b>CLI command</b>	<p>Run the <b>rrm [ 2.4g   5g ] appoint date time [ ap-group group-name ]</b> command to set the reservation time based on AP group.</p> <p>Run the <b>rrm [ 2.4g   5g ] update [ ap-group ap-group ] [ channel   txpower ]</b> command to manually trigger auto RF adjustments.</p>
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### ACs Supporting MACC

<b>Description</b>	<p>MACC is accessible to ACs. So, ACs upload to MACC AC data (information about system, interfaces, dial-up ports, and WAN/LAN ports, syslog and key configuration changes), AP data (online and offline events, lists of connected APs, running status, and key property changes), and STA data (online and offline events, lists of connected STAs, IP change notifications, roaming log and running status).</p> <hr/> <p> Uploading information of dial-up and WAN/LAN ports is supported on multi-functional ACs.</p>
<b>CLI command</b>	N/A

### Configuring Internal Portal Authentication on the Web Page of Multi-Functional ACs

<b>Description</b>	On a multi-functional AC, you can configure internal portal authentication on EWEB. And logo customization is supported on the Portal authentication page.
<b>CLI command</b>	N/A

### APs Supporting DFS

<b>Description</b>	DFS is supported on APs with versions of 11.9(4)B1 and 11.1(9)B1P18.
<b>CLI command</b>	<p>Run the <b>show dfs adjustment-channels [ ap-name ]</b> command to display hopping channels and bandwidth of one or all APs.</p> <p>Run the <b>show dfs non-occupancy-channels [ ap-name ]</b> command to display the list of non-occupancy radar channels of one or all APs.</p> <p>Run the <b>show dfs historical-radar-channels [ ap-name ]</b> command to display historical information of radar channels of one or all APs.</p>

### Supporting a Privileged VLAN

<b>Description</b>	A privileged VLAN can be configured, so only packets from this VLAN are forwarded while packets from other VLANs are dropped. However, packets from other VLANs are forwarded when there are no packets from the privileged VLAN for 60 seconds.
<b>CLI command</b>	<p>Run the <b>vlan-first global-enable</b> command to enable the VLAN-first function.</p> <p>Run the <b>vlan-first vlan [vlan-id]</b> command to configure the privileged VLAN.</p>

Run the **vlan-first ip** [sip] [dip] command to configure the multicast address for the privileged VLAN.

### ACs Supporting SSH Clients

<b>Description</b>	SSH clients are supported on ACs.
<b>CLI command</b>	N/A

### Network Monitoring System Probing STA Information

<b>Description</b>	STA information is probed by the network monitoring system.
<b>CLI command</b>	Use the <b>web-server enable api-path probe-sta syslog</b> command to print STA syslog. And run the <b>sta-logging mac-fmt-line</b> command to print syslog when STAs get online and obtain IP addresses.

### ACs Assigning BIN Files to APs

<b>Description</b>	After losing its BIN file, an AP sends requests to the AC for a BIN file. Then, the AC searches its storage and finds a matched BIN file before assigning it to the AP for upgrade. If there is no matched BIN file stored on the AC, it is automatically recorded into the EWEB alarming system, so notifications are sent to the network administrator on the EWEB page.
<b>CLI command</b>	N/A

### Improved Max User Capacity of Satellite APs

<b>Description</b>	Max user capacity is improved for satellite APs. This improvement is accessible in scenarios where latest versions are applied to ACs, APs and satellite APs.
<b>CLI command</b>	N/A

### All Models Supporting License 1

<b>Description</b>	License 1 is supported on all models.
<b>CLI command</b>	N/A

## Resolved Issues

Table 3 shows the fixed bugs based on RGOS 11.9(5)B1.

### Table 3 Fixed Bugs

No.	Bug Description
1	Deleting one association group on the WEB page caused the removal of all groups.
2	An error message appeared after WLANs were added and network time was disabled.
3	In WPA2 encryption + MAB authentication +WEB authentication mode, 'users were notified of password error during first connection attempt.
4	In a VAC scenario, APs got online and offline on a frequent basis, leading to disconnection of more than 900 APs.
5	On the WEB page of the AC, an online AP was wrongly displayed in the default group and its status was shown as offline.
6	It took too long for the <b>enable</b> command to take effect.
7	The OID node 1.3.6.1.4.1.4881.1.1.10.2.81.2.3.1.1 was incorrect.
8	SCC entries were removed if local forwarding users switched between two RF cards of an AP.
9	On the WEB page, notes about usernames were lost on blacklists and whitelists.
10	Configuring logging vlan 6 triggered NFPP ARP protection, which caused device to reboot.
11	On the WEB page of the AC, if the IP address of an AP was changed, the AP could not get online normally.
12	Failure occurred in STA association.
13	Exceptions occurred in STA authentication.
14	Downstream rates read on the SNC greatly exceeded the rate limit set on the AC.
15	For an online AP, SNC wrongly alarmed its disconnection, so all of its STAs were disconnected.
16	When the device came up, the default audit policy did not take effect.
17	Behavior policy matching failed.
18	In a VAC system, the time zone of the master AC failed to be modified, and the rootfs partition was running out of space.
19	MIB readme was inconsistent with the code.
20	In a VAC system, after an AP resumed connection, a message about MAC address conflicts appeared on the WEB page of the AC.
21	On the WEB page, only the first page was displayed when users chose to view entries based on both the entry number and signal strength.
22	The configuration did not come into force that a maximum of 50 IP addresses of authentication-exempted users were shown on the WEB page.
23	The whitelist containing more than 280 entries failed to be imported.
24	The wbs_ctl process restarted when a MacBook Pro running OS Catalina 10.15 switched its association between a WAP3-encrypted SSID and an open SSID.
25	In an MACC scenario, when a large number of APs connected to the AC, the cloud-diagnosis.elf process kept restarting.
26	In a VAC scenario, if a great quantity of APs connected to the AC and RRM 2.0 network optimizing was enabled, insufficient buffer capacity led to message synchronization failures between the master and standby ACs.
27	In ap-group mode, the statistics of online radio was wrong, not reflecting the actual number.

## Upgrade Packages

**Table 5.1 WS6008/WS6108**

Applicable Product	File	File Size	MD5
WS6008 v1.1x, v1.2x, v1.5x, v2.0x WS6108 v1.0x, v1.1x	AC_RGOS11.9(5)B1_G2C6-01_ 06240613_install.bin	54,159,031 bytes	90a9b0504ac8544dfadfe262c8e b639e

**Table 5.2 WS6816**

Applicable Product	File	File Size	MD5
WS6816 v1.0x, v1.1x	AC_RGOS11.9(5)B1_G2C6-02_ 06240613_install.bin	57,600,383 bytes	e28b0baf21a69a4e2dc340a748 e40951

**Table 5.3 M8600E-WS-ED / M18000-WS-ED**

Applicable Product	File	File Size	MD5
M8600E-WS-ED v1.0x, v1.1x, v2.0x M18000-WS-ED v1.0x, v1.1x, v2.0x	AC_RGOS11.9(5)B1_G2C6-03_ 06240613_install.bin	56,704,070 bytes	0631e3f3c79a4b53e597ad1380 0d7499

## Upgrade/Downgrade Tips

The following are some tips for upgrading the RG-WLAN Series Wireless Controller RGOS 11.9(5)B1:

- Use the **show version** command to check the current firmware before upgrade/downgrade. Select proper upgrade/downgrade mode according to the current firmware and the target firmware.
- During the upgrade and downgrade, pay attention to the prompt messages. If failures occur, please save the log and contact us for technical assistance.
- During the upgrade and downgrade, it is recommended you not power off or reset the system, or plug/unplug any module.
- Use the **show version** command to check the firmware after the upgrade/downgrade.