# Ruijie RG-WLAN Series Access Points

# RGOS Release Notes, 11.9(6)B1

**Release Date: Sep 21st, 2020**

# Contents

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# Basic Information

Table 1 lists the basic information of the current release.

*Table 1 Basic Information of the Current Release*

| Current Release | RGOS 11.9(6)B1 |
|---|---|
| Previous Release | RGOS 11.9(4)B1 |
| Applicable Product | **Indoor AP:** AP820-L(V2) v1.x, AP840-I v1.x, AP180 v2.x |
| | **Outdoor AP**: AP680(CD) v1.x |
| | **AC Version:** RGOS 11.9(5)B1 and later |
| Category | Official release |

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

```
Ruijie#sh ver detail
System description    : Ruijie Indoor AP820-A(X) (802.11a/n/ac/ax and 802.11b/g/n/ax) By
Ruijie Networks.
System start time     : 1970-01-01 08:00:00
System uptime         : 0:00:00:54
System hardware version : 1.00
System software version : AP_RGOS 11.9(6)B1, Release(07201412)
System patch number   : NA
System software number  : M12025608142020
System serial number  : 1234567890123
System boot version   : 2017.09.4f16ab4(200805)
System core version   : 2.6.32.eaebc51bc2a288
```

**Release Number Description**

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

> ℹ️ Release number is formatted as AABBCCDD.
>
> AA indicates year. 01 stands for 2014, 02 for 2015 and so on.
>
> BB indicates month. 13 stands for January, 14 for February and so on.
>
> CC indicates date.
>
> 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(6)B1.

*Table 2 Supporting Hardware Models*

| Hardware Model | Version | Description |
| --- | --- | --- |
| AP820-L(V2) | 1.x | Indoor Access Point, one 10/100/1000M WAN Port, Built-in Antenna, Dual-Radio, Dual-Band, 2.4 G + 5 G or 5.2 G+5.8 G, 2×2 + 2×2 Spatial Streams, 802.11a/b/g/n/ac/ax. |
| AP840-I | 1.x | Indoor Access Point, two 10/100/1000M WAN Ports, one 1Gbps IoT Port, Built-in Antenna, Dual-Radio, Dual-Band, 2.4 G + 5 G, 2×2 + 4×4 Spatial Streams, 802.11a/b/g/n/ac/ax. |
| AP180 | 2.x | Indoor Access Point, one 10/100/1000M WAN Port, four 10/100/1000M LAN Ports, Built-in Antenna, Dual-Radio, Dual-Band, 2.4 G + 5 G, 2×2 + 2×2 Spatial Streams, 802.11a/b/g/n/ac/ax. |
| AP680(CD) | 1.x | Outdoor Access Point, one 10/100/1000M WAN Port, one 10/100/1000M SFP Port, Built-in Antenna, Dual-Radio, Dual-Band, 2.4 G + 5 G, 2×2 + 2×2 Spatial Streams, 802.11a/b/g/n/ac/ax. |

✏️ **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

*PPPoE, NAT and IPSec VPN*

| Description | Support PPPoE(FIT/FAT), NAT, IPSec VPN and other gateway functions on Wi-Fi6 series products. |
|---|---|
| CLI command | N/A |

### 802.11r

| Description | Support 802.11r on Wi-Fi6 series products. |
|---|---|
| CLI command | N/A |

### Separate ARP Request Broadcast on Ruijie Cloud

| Description | Separate ARP broadcast on Ruijie Cloud. |
|---|---|
| CLI command | On Ruijie Cloud, two clients in the same network segment are not allowed to send ARP packets to each other. <br><br> 1. Enable separating ARP packets <br><br>    Ruijie(config)#data-plane arp-control enable <br><br> 2. Configure separating ARP packets <br><br>    Ruijie(config)#data-plane arp-control vlan 1 trusted-host 1.1.1.1 <br><br> When a client in VLAN 1 sends ARP request, it will only trust and receive the response from 1.1.1.1. |

### WDS Encryption

| Description | Support WDS encryption on AP680(CD) |
|---|---|
| CLI command | The root bridge sends out encrypted signals whose encryption is the same with that of common signal: <br><br> security wpa/rsn enable <br><br> security wpa/rsn ciphers aes enable <br><br> security wpa/rsn akm psk enable <br><br> security wpa/rsn akm psk set-key ascii xxx <br><br><br> Non-root bridge encryption command: <br><br> The **non-root bridge encryption** command should be run in radio configuration mode. <br><br> Now only wpa/wpa2 aes psk are supported. <br><br> 1. wpa <br><br>   bridge security wpa ciphers aes akm psk key ascii xxx(xxx indicate the encryption key) <br><br> 2. wpa2(rsn encryption) |

| | |
|---|---|
| | bridge security rsn ciphers aes akm psk key ascii xxx |

# Resolved Issues

Table 3 shows the fixed bugs based on RGOS 11.9(6)B1.

### Table 3 Fixed Bugs

| No. | Bug Description |
|---|---|
| 1 | When WIDS black/whitelist is enabled, uplink AMSDU aggregate packets may lose. |
| 2 | Wi-Fi6 clients may be not able to access the Internet. |

# Upgrade Packages

### Table 4.1 AP820-L(V2)

| Applicable Product | File | File Size | MD5 |
|---|---|---|---|
| AP820-L(V2) v1.x | AP_RGOS11.9(6)B1_S2X2-05_07201411_install.bin | 24,697,968 bytes | bbb9feeb6ffea43f1b5971d4d4f4dda8 |

### Table 4.2 AP840-I v1.x

| Applicable Product | File | File Size | MD5 |
|---|---|---|---|
| AP840-I v1.x | AP_RGOS11.9(6)B1_S2X4-01_07201411_install.bin | 27,212,919 bytes | fc77568e05ff893c31460f0dbaf7cbfb |

### Table 4.3 AP180 v2.x

| Applicable Product | File | File Size | MD5 |
|---|---|---|---|
| AP180 v2.x | AP_RGOS11.9(6)B1_S2X2-09_07201411_install.bin | 22,803,751 bytes | 6ad4451fc6a69cff833b3b5c085aef83 |

### Table 4.4 AP680(CD) v1.x

| Applicable Product | File | File Size | MD5 |
|---|---|---|---|
| AP680(CD) v1.x | AP_RGOS11.9(6)B1_S2X2-06_07201411_install.bin | 25,127,264 bytes | 83475e6dfb75354199e58d37d19305ad |

# Upgrade/Downgrade Tips

The following are some tips for upgrading the RG-WLAN Series Access Point RGOS 11.9(6)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.