Ruijie RG-RSR30-X-SPU10 V1.5 Series Routers RGOS Release Notes, 10.4(3b109)R225936

Release Date: Dec. 26th, 2019

Contents

This document includes the following sections:

Basic Information

Table 1 lists the basic information of the current release.

Table 1 Basic Information of the Current Release

Current Release	RGOS 10.4(3b109), Release(225936)
Previous Release	RGOS 10.4(3b102), Release(224360)
Applicable Product	RSR30-X-SPU10 V1.5
Category	Beta release

Hardware Supported

Table 2 shows the hardware supported by the RGOS 10.4(3b109) p1, Release (225936).

Table 2 Hardware Models

Hardware Model	Version	Description
RSR30-X-SPU10 V1.5	1.52	Router
HNM-8E1/CE1	1.00	8-port E1/CE1 card
M5000E-AC60	1.00	AC power supply module
RG-PD240I	1.00	DC power supply module
HNM-8GT2SFP	1.00	8-port 1000M copper interface and 2-port 1000M optical interface module
HNM-1CPOS-STM1	1.00	1-port 155M channelized POS interface module
CAB-E1 unbalanced/ 2*BNC-RJ45M/75ohm/3m	1.00	Optimized E1 cable

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.

Changes

Table 3 shows the changes based on RGOS 10.4(3b102), Release(224360).

Table 3 Changes

Module	Description
MTD	New NAND Flash is supported.

Resolved Issues

Table 4 shows the fixed bugs based on RGOS 10.4(3b102), Release(224360).

Table 4 Fixed Bugs

No.	Bug Description
1	Some routes were lost when two VRF systems learned from each other.
2	After dynamic and static ports were aggregated, if LACP configurations were removed, all other properties of the ports were cleared together with their electrical and optical properties.
3	Web features are disabled by default. As a result, users needed to enable them by running commands.
4	One-click upgrade and restoring default settings by USB disks were not supported.
5	Connected with 20X devices, the router could fail to establish ISIS connections with neighbors during port oscillations.
6	When plugged before the system booted, a USB disk or an SD card could not be recognized after the bootup process.
7	HTTP requests are redirected to HTTPS now.
8	Simple passwords were not allowed on the CLI.
9	Interface status and description could not be displayed at the same time.
10	In a scenario with two policies, there was one virtual IP address for each policy. After connecting a physical port, a PC applied the policy that the port was bound to and got the virtual IP address. However, if the virtual IP address was changed, the PC would not obtain the new address after a reboot.
11	On a SAT client, assigned virtual IP addresses could not be released.

Related Documentation

■ RSR30-X Series Router Hardware Installation and Reference Guide V1.16
This manual introduces the functional and physical features of the RSR30-X series router and provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors.

■ RSR30-X Series Router RGOS Configuration Guide, Release 10.4(3b109)

This manual describes the various network protocols and their implementation principles for the RSR30-X series with the detailed configuration examples.

■ RSR30-X Series Router RGOS Command Reference, Release 10.4(3b109)

This manual describes the configuration commands related to the various network protocols supported on the RSR30-X series router RGOS 10.4(3b109) version in detail, including the command mode, parameter description, usage guide, and configuration examples.

Note   You can obtain the related documents at: http://www.ruijienetworks.com/.

Upgrade Files

Table 6 Latest Firmware

Applicable Product	Upgrade Firmware	File Size	MD5
RSR30-X-SPU10 V1.5	RSR30-X-V15_10.4(3b109)_R225936_install.bin	25,062,080 bytes	380f95b53dc942781e2e705007a5b660

Upgrade Tips

The following are some tips for upgrading the RG-RSR30-X Series Router RGOS 10.4 (3b109):

■ During the upgrade, pay attention to the prompt messages. If failures occur, please save the log and contact us for technical assistance.

■ During the upgrade, 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

Upgrade Procedure

1. Connect the Console port of the router and the Trunk port of the PC via a USB cable. Enable on the PC terminal programs, such as Hyper Terminal or SecureCRT on Windows and Minicom on Linux. Set Baud rate to 9,600, Data bits to 8, and Stop bits to 1.

2. Connect the first port of the router to the Ethernet port of the PC directly or indirectly via an Ethernet cable. Make sure the router and the PC are reachable to each other. Disable firewall before the upgrade.

3. Enable the TFTP server on the PC and place the to-be-sent Ruijie RGOS in the TFTP directory.

4. Power on the router. If Ruijie RGOS is available, you are suggested to operate upgrade via Ruijie RGOS (refer to Step 5 for details). If Ruijie RGOS is not available, it is recommended to upgrade the device via Boot Loader (refer to Step 6 for details).

5. Upgrade the router via Ruijie RGOS.

1)   Run Ruijie RGOS, and run the TFTP command to load the installation package to the router.

Command explanation:

copy tftp://IP address *(of the PC where the .bin file is installed)* **/**name(of the .bin file) **flash:/rgos,bin**

```
Ruijie#copy tftp://192.168.50.113/RSR30-X-V15_10.4(3b109)_R225936_install.bin
flash:/rgos.bin
Accessing tftp://192.168.50.113/RSR30-X-V15_10.4(3b109)_R225936_install.bin...
System is running defragment,please wait....
Press Ctrl+C to quit
......The file has existed, do you want to overwrite it? [yes/no]: y
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Transmission finished, file length 25062080 bytes.
Verify the image .....[ok]


CURRENT PRODUCT INFORMATION :
  PRODUCT ID: 0x100F0060
  PRODUCT DESCRIPTION: Ruijie Router (RSR30-X) by Ruijie Networks


SUCCESS: UPGRADING OK.
Ruijie#
```

2)   Restart the router and finish the upgrade.

```
Ruijie#reload
Proceed with reload? [no]y
```

```
Verify the image .....[ok]


*Apr  5 02:06:21: %SYS-5-RELOAD: The device is reloading due to the execution of
command reload.


dualboot crc verify:
##############################################################################
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Master boot is ok!


Press CTRL+T to do memory poweron-self-test!


System bootstrap(Master boot) ...
Boot Version: RGOS 10.4(3b76)p4 Release(222915)
Nor Flash ID: 0x017E1000, SIZE: 8388608Bytes
Using 1500.000 MHz high precision timer.
CLOCK-3-HW_CAL_INVALID: Hardware Calendar (RTC) Error.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912) detected
Press Ctrl+C to enter Boot .....
Verify the image .....[ok]
Master mainfile rgos.bin crc check: success!
Verify the image .....[ok]
Slave mainfile rgos_bak.bin crc check: success!
Prepare for upgrading mainfile rgos_bak.bin!
Current version: 10.4.222915.
Upgrade to version: 10.4.225936.
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Copy rgos.bin to rgos_bak.bin OK.
Loading main program ...
Loading main program 'rgos.bin'.
Load main program successfully.
Executing program, launch at: 0x04000000


CLOCK-3-HW_CAL_INVALID: Hardware Calendar (RTC) Error.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912) detected


Self decompressing the image:
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########################### [OK]
Self decompressing the image succeed and will jump to 0x00010000...


Ruijie General Operating System Software
Release Software (tm), RGOS 10.4(3b109) Release(225936), Compiled Wed Apr 17 11:05:11
CST 2018 by ngcf67


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All Rights Reserved.
Neither Decompiling Nor Reverse Engineering Shall Be Allowed.


Hardware Calendar (RTC) Error.
*Apr  18 02:09:26: %TIPC-6-CORE_START: Activated (version 1.7.7-rc1)
*Apr  18 02:09:26: %TIPC-6-RANDOM: Tipc random is 676324426
*Apr  18 02:09:26: %TIPC-6-CORE_SINGLE: Started in single node mode
*Apr  18 02:09:26: %MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912)
detected
*Apr  18 02:09:59: %AUTOUPD-3-INIT_FAILED: Auto update initialize failed.
Upgrading BOOT...
DO NOT POWER OFF!
Erasing device...eeeeeeeeeeeeeee [ok]
Writing flash ############### [OK - 907,584 bytes]


*Apr  18 02:10:29: %UPGRADE-5-LOCAL_BEG: Installing: 'flash: BOOT'.
*Apr  18 02:10:29: %UPGRADE-5-LOCAL: Upgrading BOOT.
*Apr  18 02:11:13: %UPGRADE-5-LOCAL_FIN: New software image installed in flash.
*Apr  18 02:11:20: %UPGRADE-5-EXTITEM_INSTALLED: File /web/ucs_gb.db has been
installed in flash.
*Apr  18 02:11:21: %UPGRADE-5-EXTITEM_INSTALLED: File /web/ucs_big5.db has been
installed in flash.
*Apr  18 02:11:21: %UPGRADE-5-EXTITEM_INSTALLED: File /web/update_list.txt has been
installed in flash.
*Apr  18 02:11:21: %UPGRADE-5-EXTITEM_INSTALLED: File /web/web_config.text has been
installed in flash.
*Apr  18 02:11:42: %SYS-5-WARMSTART: System warmstart.
*Apr  18 02:11:43: %LINK-3-UPDOWN: Interface GigabitEthernet 0/0/0, changed state
to up.
```

```
*Apr  18ss 02:11:43: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet
0/0/0, changed state to up.



Ruijie>
```

3)   Check the version information.

```
Ruijie#show version
System description     : Ruijie Router (RSR30-X-SPU10 V1.5) by Ruijie Networks
System start time      : 1970-01-03 2:9:26
System uptime          : 0:0:8:40
System software version : RGOS 10.4(3b109) Release(225936)
System BOOT version    : 10.4(3b109) Release(225936)(Master), 10.4(3b109)
Release(225936)(Slave)
Module information:
  Slot-0/0 : RSR30-X-SPU10
    System hardware version : 1.57
    System cpld version    : 10.0.0.0
Ruijie#
```

6. Upgrade the router via Boot Loader.

1)   If Ruijie RGOS is not available, press Ctrl+C when the device starts, and enter Boot Loader to restore or upgrade software.

```
System bootstrap(Master boot) ...
Boot Version: RGOS 10.4(3b90) Release(222706)
Nor Flash ID: 0x017E1000, SIZE: 8388608Bytes
Using 1500.000 MHz high precision timer.
CLOCK-3-HW_CAL_INVALID: Hardware Calendar (RTC) Error.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912) detected
Press Ctrl+C to enter Boot ....


Hot Commands:
-----------------------------------------------------------
F1. tftp  192.168.50.192  192.168.50.113 RSR30-X-V15_10.4(3b90)_R222706_install.bin -main
-----------------------------------------------------------
BootLoader>
```

2)   Connect the first port of the router and the PC. Enable TFTP on the PC, and place Ruijie RGOS in its directory. Then, run the TFTP command to import the program into the router.

Command explanation:

tftp *IP address(of the router port) IP address* (of the PC where the .bin file is stored) *name* (of the .bin file)   –
main

```
BootLoader>tftp 192.168.50.193  192.168.50.113
RSR30-X-V15_10.4(3b109)_R225936_install.bin -main
Now, begin download program through Tftp...

Host IP[192.168.50.113] Target IP[192.168.50.193] File name
[RSR30-X-V15_10.4(3b109)_R225936_install.bin]
%Now Begin Download File RSR30-X-V15_10.4(3b109)_R225936_install.bin From
192.168.50.113 to 192.168.50.193

send download
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        %Mission Completion. FILELEN = 25062080
Tftp download OK, 25062080 bytes received!
Verify the image .....[ok]

CURRENT PRODUCT INFORMATION :
  PRODUCT ID: 0x100F0060
  PRODUCT DESCRIPTION: Ruijie Router (RSR30-X-SPU10 V1.5) by Ruijie Networks

SUCCESS: UPGRADING OK.
BootLoader>
```

3) Restart the router and finish the upgrade.

```
BootLoader>reload
SYS-5-RESTART: The device is restarting. Reason: Restart the whole system!.
```

```
dualboot crc verify:
#############################################################################
#############################################################################
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Master boot is ok!


Press CTRL+T to do memory poweron-self-test!


System bootstrap(Master boot) ...
Boot Version: RGOS 10.4(3b90) Release(222706)
Nor Flash ID: 0x017E1000, SIZE: 8388608Bytes
Using 1500.000 MHz high precision timer.
CLOCK-3-HW_CAL_INVALID: Hardware Calendar (RTC) Error.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912) detected
Press Ctrl+C to enter Boot .....
Verify the image .....[ok]
Master mainfile rgos.bin crc check: success!
Verify the image .....[ok]
Slave mainfile rgos_bak.bin crc check: success!
Prepare for upgrading mainfile rgos_bak.bin!
Current version: 10.4.222706.
Upgrade to version: 10.4.225936.
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MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912) detected

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########################## [OK]
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*Apr  18 02:11:21: %UPGRADE-5-EXTITEM_INSTALLED: File /web/update_list.txt has been
installed in flash.
*Apr  18 02:11:21: %UPGRADE-5-EXTITEM_INSTALLED: File /web/web_config.text has been
installed in flash.
*Apr  18 02:11:42: %SYS-5-WARMSTART: System warmstart.
*Apr  18 02:11:43: %LINK-3-UPDOWN: Interface GigabitEthernet 0/0/0, changed state
to up.
*Apr  18 02:11:43: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet
0/0/0, changed state to up.


Ruijie>
```

7. Check the version to confirm successful upgrade.

```
Ruijie#sh ver
System description    : Ruijie Router (RSR30-X-SPU10 V1.5) by Ruijie Networks
System start time     : 1970-01-03 8:9:26
System uptime         : 0:0:7:40
System software version : RGOS 10.4(3b109) Release(225936)
System BOOT version   : 10.4(3b109) Release(225936)(Master), 10.4(3b109)
Release(225936)(Slave)
Module information:
  Slot-0/0 : RSR30-X-SPU10
    System hardware version : 1.57
    System cpld version    : 10.0.0.0
Ruijie#
```

```
Ruijie#sh ver
System description    : Ruijie Router (RSR30-X-SPU10 V1.5) by Ruijie Networks
System start time     : 1970-01-03 8:9:26
System uptime         : 0:0:7:40
```