



## **RG-RSR30-X Series Router Release Notes, RGOS 10.4 (3b90), Release(222488)**

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Release Date: July 31, 2018

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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 10.4(3b90), Release(222488)
<b>Previous Release</b>	RGOS 10.4(3b76)p3, Release(215430)
<b>Applicable Product</b>	RSR30-X-SPU10 V1.5
<b>Category</b>	Official release

## Hardware Supported

Table 2 shows the hardware supported by the RGOS 10.4 (3b90), Release(222488).

**Table 2 Hardware Models**

Hardware Model	Version	Description
RSR30-X-SPU10 V1.5	1.52	Host
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.

## New Features

Table 3 shows the new features based on RGOS 10.4 (3b90), Release(222488).

**Table 3 New Features**

Functional Module	Description
SAS	Connection is established between the SAS module and client-side SAT.
Anti-Proxy	Anti-proxy is supported.
RLDP	RLDP is supported.
SSH-CLIENT	SSH clients are supported.
One-Arm-Echo BFD	One-arm-echo BFD is supported.

## Changes

Table 4 shows the changes based on RGOS 10.4 (3b90), Release(222488).

**Table 4 Changes**

Module	Description
Web Authentication	The 2 <sup>nd</sup> generation Web authentication is supported.
SDG	Domain segmentation is supported.
Web Management	Web configuration is added to manage the segmented domains.

## Resolved Issues

Table 5 shows the fixed bugs based on RGOS 10.4 (3b90), Release(222488).

**Table 5 Fixed Bugs**

No.	Bug Description
1	Content is insufficient on process pages.
2	Ruijie's IPsec is not compatible with H3C's.
3	A default user group cannot be configured for a Web authentication whitelist.
4	In an RIP-enabled loop, if the mask of one of the routers is changed, routing tables on the other routers are not updated.
5	LLDP packets with VLAN ID make the system fail.
6	There are VPDN bugs.
7	When MPLS L2 VPN traffic is tested, if the master control module restarts, the slave module becomes

	the master.
8	On the S26G-I, when AAA authentication is operated based on the RADIUS protocol, the password used to enter the privileged EXEC mode does not take effect.
9	After a port is disconnected, FRR takes effect in more than one second.
10	On secureCRT V6.23, after login to the router via SSH, the <b>terminal length 0</b> command is run. Then the output of the <b>show run</b> command is incomplete.
11	Initializing RTP causes a system failure.
12	After the <b>tcp mss</b> command is run on the router, the TCP checksum is not updated, which leads to an exception.
13	A phone user fails to dial up via the L2TP/IPsec VPN.
14	Route 0.0.0.0/1 cannot be learned in OSPF.
15	Only client identifiers of less than 62 bytes can be configured manually.
16	When IPFIX is configured, the flow table capacity changes. As a result, sampling fails.
17	Under a certain circumstance, the DHCP server fails to send addresses.
18	RLDP fails to detect loops.
19	In the MPLS backbone network, the control module crashes.
20	In MPLS L3VPN, the control module crashes.
21	There are SSL bugs.
22	POODLE vulnerability exists.
23	The remote service accepts connections encrypted using SSL 2.0 and/or SSL 3.0. These versions of SSL are affected by several cryptographic flaws.
24	It was possible to obtain traceroute information and make a traceroute to the remote host.
25	The sequence number of the remote host is predictable.
26	FTP is not encrypted.
27	On a remote SSH server, 1024-bit DH primes are used. As a result, third parties can obtain shared keys within a short time.
28	When the NTP server with unsecure configuration monitors a remote host, the router provides NTP service to other devices.
29	There are code errors on the IPsec module.

## 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(3b90)  
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(3b90)  
This manual describes the configuration commands related to the various network protocols supported on the RSR30-X series router RGOS 10.4(3b90) 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(3b90)_R22 2488_install.bin	25,585,536 bytes	409c2dd0e6b32edfe7fe086ac9c 598ee

## Upgrade Tips

The following are some tips for upgrading the RG-RSR30-X Series Router RGOS 10.4 (3b90):

- 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**

```
RRuijie#copy tftp://192.168.45.68/RSR30-X-V15_10.4(3b90)_R222488_install.bin fl$
Accessing tftp://192.168.45.68/RSR30-X-V15_10.4(3b90)_R222488_install.bin...
```











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

Ruijie General Operating System Software
Release Software (tm), RGOS 10.4(3b90) Release(222488), Compiled Fri Jul 27 20:13:13
CST 2018 by ngcf69

Copyright (c) 1998-2018s by Ruijie Networks.
All Rights Reserved.
Neither Decompiling Nor Reverse Engineering Shall Be Allowed.

*Jul 28 08:48:59: %TIPC-6-CORE_START: Activated (version 1.7.7-rc1)
*Jul 28 08:48:59: %TIPC-6-RANDOM: Tipc random is 1575121219
*Jul 28 08:48:59: %TIPC-6-CORE_SINGLE: Started in single node mode
*Jul 28 08:48:59: %MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912)
detected
*Jul 28 08:49:33: %AUTOUPD-3-INIT_FAILED: Auto update initialize failed.
Upgrading BOOT...
DO NOT POWER OFF!
Erasing device...eeeeeeeeeeeeeeee [ok]
Writing flash ##### [OK - 903,456 bytes]

*Jul 28 08:49:34: %UPGRADE-5-LOCAL_BEG: Installing: 'flash: BOOT'.
*Jul 28 08:49:35: %UPGRADE-5-LOCAL: Upgrading BOOT.
*Jul 28 08:50:17: %UPGRADE-5-LOCAL_FIN: New software image installed in flash.
*Jul 28 08:50:49: %UPGRADE-5-EXTITEM_INSTALLED: File /web/ucs_gb.db has been
installed in flash.
*Jul 28 08:50:49: %UPGRADE-5-EXTITEM_INSTALLED: File /web/ucs_big5.db has been
installed in flash.
*Jul 28 08:50:50: %UPGRADE-5-EXTITEM_INSTALLED: File /fpga/.fpga_hsic_fty.rbf has
been installed in flash.
*Jul 28 08:50:50: %UPGRADE-5-EXTITEM_INSTALLED: File /web/update_list.txt has been
installed in flash.
*Jul 28 08:50:50: %UPGRADE-5-EXTITEM_INSTALLED: File /web/web_config.text has been
installed in flash.
*Jul 28 08:51:14: %UPGRADE-5-EXTITEM_INSTALLED: File /web_management_pack.upd has
been installed in flash.
*Jul 28 08:51:43: %LINK-3-UPDOWN: Interface GigabitEthernet 0/0/0, changed state to
up.
```

```
*Jul 28 08:51:43: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet
0/0/0, changed state to up.
*Jul 28 08:51:45: %SYS-5-WARMSTART: System warmstart.

Ruijie>
```

3) Check the version information.

```
Ruijie#show version
System description      : Ruijie Router (RSR30-X-SPU10 V1.5) by Ruijie Networks
System start time      : 2018-07-28 8:48:59
System uptime          : 0:0:4:34
System software version : RGOS 10.4(3b90) Release(222488)
System BOOT version    : 10.4(3b90) Release(222488)(Master), 10.4(3b76)p2
Release(214959)(Slave)
Module information:
  Slot-0/0 : RSR30-X-SPU10
    System hardware version : 1.50
    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 softwares.

```
System bootstrap(Master boot) ...
Boot Version: RGOS 10.4(3b90) Release(222293)
Nor Flash ID: 0x017E1000, SIZE: 8388608Bytes
Using 1600.000 MHz high precision timer.
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 536870912) detected
Press Ctrl+C to enter Boot .

Hot Commands:
-----
Fl. tftp 192.168.50.135 192.168.50.129 ngsa-maincompress-rsr30-x-v15.bin_ -main
-----

BootLoader>^C
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**













```
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      : 2018-07-28 15:23:53
System uptime          : 0:12:46:47
System software version : RGOS 10.4(3b90) Release(222488)
System BOOT version    : 10.4(3b90) Release(222488) (Master), 10.4(3b76)p2
                        : Release(214959) (Slave)
Module information:
  Slot-0/0 : RSR30-X-SPU10
    System hardware version : 1.50
    System cpld version    : 10.0.0.0
Ruijie#
```