



RG-IS2700G Series Switch RGOS Release Notes, 10.4(3b16)T2 R171192

Release Date: Feb 10, 2014

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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 10.4 (3b16)T2, Release171192
Previous Release	RGOS 10.4 (3b16), Release 151126
Applicable Product	IS2712G, IS2706G
Category	Official release

Hardware Supported

Table 2 shows the hardware supported by the RGOS 10.4 (3b16)T2 version.

Table 2 Hardware Models and the Supporting Releases

Hardware Model	Version	Description
IS2712G	1.0	8-port 10/100/1000M copper, 4-port 1000BASE-X SFP (non-combo)
IS2706G	1.0	4-port 10/100/1000M copper, 2-port 1000BASE-X SFP (non-combo)

**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 added to the baseline version.

Table 3 New Features Added to the Baseline Version

Feature	Change Description	Release
ERPS	Added the ERPS function.	167920
SmartWeb	Added the SmartWeb function.	167920

Changes

Table 4 shows modified or deleted features and command lines based on the baseline version.

Table 4 Changes to the Baseline Version

Feature	Change Description	Release
GRTD	By default, the startup self-test mode is bypass. That is, the startup self-test is disabled by default. The startup self-test level command is configured not to take effect.	170320

Resolved Issues

This section describes the fixed bugs.

Table 5 Fixed Bugs Based on the Baseline Version

No.	Description	Release
1	When the VSU is configured through copper interfaces, the roles of master and standby devices may be switched after the system is restarted multiple times.	169203
2	When a 1000M SFP-GT module (MINI-GBIC-GT) is inserted into an optical port, the port link instability prompt is generated continuously when the optical port is not connected to the peer end. The prompt is not generated after the optical port is connected to the peer end normally.	169203

3	<p>The following issues are found in the Beta release:</p> <ol style="list-style-type: none"> 1. When ERPS is disabled on the SmartWeb, the erps raps-vlan XX command cannot be deleted. The ERPS configuration needs to be cleared when the ERPS function is disabled. 2. When the blocked port of ERPS is set to Gi0/3 on the Web page, the blocked port that actually takes effect is Gi0/4. 3. The actually implemented anti-ARP attack is anti-ARP spoofing of gateways. The common ARP attack scope is wide, covering the ARP spoofing of access devices and gateways. The following description is provided on the Web page: The anti-ARP spoofing refers to anti-ARP spoofing on important devices such as gateways and servers. 4. Static IP+MAC binding in anti-ARP attack is actually ARP static binding. An easier name helps users better understand the function. 5. In the anti-DoS attack module, when DoS attack packets are sent, the device CPU utilization is still 70-80%, which is inappropriate. 6. In log management, only logs of a specified level can be sent. If logs of all levels are required, the logs cannot be sent completely. 7. When anti-DoS attack is enabled, the anti-DoS function is disabled after Device Configuration is chosen on the system homepage. 8. In the device panel on the home page, when a port is clicked, the port is displayed as an unclassified port. This description is meaningless and needs to be masked. 9. When ERPS is configured using the fast configuration, the ERPS configuration and RLDP configuration are combined for delivery, which results in the ERPS configuration failure. Consequently, the RLDP configuration needs to be deleted and a separate RLDP configuration page needs to be provided for configuring RLDP. 	171192
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**Note**For detail, see *Bug Notice*.

Related Documentation

- RG-IS2700G Series Switches Hardware Installation and Reference Guide, V1.04.doc
This manual introduces the functional and physical features of the RG-IS2700G series switch and provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors.
- RG-IS2700G Series Switch RGOS Configuration Guide, Release 10.4(3b16)T2
This manual describes the various network protocols and their implementation principles for the switch with the detailed configuration examples.

- RG-IS2700G Series Switch RGOS Command Reference, Release 10.4(3b16)T2
This manual describes the configuration commands related to the various network protocols supported on the switch, 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 Upgrade Firmware

Applicable Product	Upgrade Firmware	File Size	MD5
IS2712G IS2706G	IS27_10.4(3b16)T2_R171192_install.bin	12,403,808 Bytes	a89801b0a0a4f71585ae4665e0b75a ab

Upgrade Tips

- Upgrade of the Boot and Ctrl programs is not forcible.
- 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.

Upgrade Steps

The procedure of upgrading the RG-IS2700G Switch RGOS 10.4(3b16)T2 is described as follows:

Step 1:

Connect the Console port to a PC running HyperTerminal or similar emulation program. Set baud rate to 9600, data bits to 8, stop bits to 1 and flow control to none.

Step 2:

Connect the switch to the PC with an Ethernet cable. Run the TFTP server on the PC and select the files (such as upgrade files) to be transmitted.

Step 3:

Power up and start the switch. If the switch can enter the Main program, follow Step 4 for upgrade. If the device cannot enter the Main program, please contact us for technical assistance.

Step 4:

Upgrade the Main program

1. Start the device and enter the Main program. Run TFTP commands to load .bin files to the switch.

```
ruijie#copy tftp://192.168.201.18/
IS27_10.4(3b16)T2_R167920_install.bin flash:/rgos.bin
Accessing tftp://192.168.201.18/
IS27_10.4(3b16)T2_R167920_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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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Verify the image ..[ok]

CURRENT PRODUCT INFORMATION :
    PRODUCT ID: 0x20120080
    PRODUCT DESCRIPTION: Ruijie Gigabit Security & Intelligence Access Switch
(IS2712G) By Ruijie Networks

SUCCESS: UPGRADING OK.

Transmission finished, file length 12402432 bytes.
```

2. Forcibly upgrade the Boot and Ctrl programs.

These images in the VSU devices will be updated:

Switch	Image	Device
--------	-------	--------

```

1          BOOT      IS2712G
-----

(Device 1): Installing BOOT
Upgrading BOOT...
DO NOT POWER OFF!
Erasing device...ee [ok]
Writing flash # [OK - 114,368 bytes]
(Device 1): BOOT installed.
(Device 1): Install finish in device 1 (IS2712G).

ruijie(support)#upgrade force switch all ctrl
These images in the VSU devices will be updated:
      Switch      Image      Device
      -----      -
      1           CTRL      IS2712G
-----

(Device 1): Installing CTRL
Upgrading CTRL...
DO NOT POWER OFF!
Erasing device...eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee [ok]
Writing flash ##### [OK - 1,839,104 bytes]
(Device 1): CTRL installed.
(Device 1): Install finish in device 1 (IS2712G)..

```

3. Reboot the device.

```

Ruijie#reload
Proceed with reload? [no]y
*Jun  8 15:53:24: %SYS-5-RELOAD: The device is reloading due to the
execution of command reload.

```

Step 5:

Upgrade the Ctrl program.

1. Start the device, press CTRL+C and enter the Ctrl program. The simulation program of the PC will prompt the following information:

```

===== BOOT Menu("Ctrl+Z" to upper level) =====
      TOP menu items.
*****
      0. XModem utilities.
      1. Run CTRL.
      2. SetMac utilities.

```

```

3. Scattered utilities.
*****
Press a key to run the command: 1
Load Ctrl Program ...

Load CTRL with ECC.....
Executing program, launch at: 0x00010000

Load Ctrl Program ...

Load CTRL with ECC.....

Self decompressing the image :
#####
#####
##### [OK]
Ctrl Version: RGOS 10.4(3b16)T2 Release(167279)
MTD_DRIVER-5-MTD_NAND_FOUND: 1 NAND chips(chip size : 134217728) detected
File /rgos.bin is not an install package(version 2.0).
Press Ctrl+C to enter Ctrl

Hot Commands:
-----

F1. tftp 192.168.201.253 192.168.201.18 ngsa-factory-s5750s-arm.bin_
-main
F2. setmac -prod
-----

```

2. Use the TFTP commands to upgrade.

```

Ctrl>tftp 192.168.201.253 192.168.201.18
IS27_10.4(3b16)T2_R167920_install.bin -main

Current mainfile was 'flash:/rgos.bin'

Now, begin download program through Tftp...

Host IP[192.168.201.18] Target IP[192.168.201.253] File
name[IS27_10.4(3b16)T2_R167920_install.bin]
      %Now Begin Download File
IS27_10.4(3b16)T2_R167920_install.bin From 192.168.201.18 to
192.168.201.253

```



```

send download
request!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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Verify the image ..[ok]

CURRENT PRODUCT INFORMATION :
    PRODUCT ID: 0x20120080
    PRODUCT DESCRIPTION: Ruijie Gigabit Security & Intelligence Access Switch
    (IS2712G) By Ruijie Networks

SUCCESS: UPGRADING OK.

Transmission finished, file length 12402432 bytes.

```

The upgrading is completed and is written to the file system.

3. Reboot the system.

```

Ctrl>load
Load program file: [flash:/rgos.bin]

```

4. Forcibly upgrade the Boot and Ctrl programs.
5. Restart the device.

```

Ruijie#reload
Proceed with reload? [no]y
*Jun  8 15:53:24: %SYS-5-RELOAD: The device is reloading due to the
execution of command reload.

```

Step 6:

Restart the device. Use the **show version** command to verify the software version is the latest.

```

ruijie#show ver
ruijie#show version
System description      : Ruijie Gigabit Security & Intelligence Access
Switch (IS2712G) By Ruijie Networks
System start time       : 1970-01-01 8:0:0
System uptime           : 0:0:6:15

```

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```
System hardware version : 1.00
System software version : RGOS 10.4(3b16)T2 Release(167920)
System BOOT version      : 10.4(3b16)T2 Release(167920)
System CTRL version      : 10.4(3b16)T2 Release(167920)
Device information:
  Device-1:
    Hardware version : 1.00
    Software version : RGOS 10.4(3b16)T2 Release(167920)
    BOOT version      : 10.4(3b16)T2 Release(167920)
    CTRL version      : 10.4(3b16)T2 Release(167920)
```

The Main/Boot/Ctrl program is upgraded to the RGOS 10.4 (3b16)T2, Release (167920). The upgrading is successful.