



NETGEAR
RT311 and RT314 Gateway Routers
Version 3.25(CA.0)
5/4/2001

This note describes enhancements and bug fixes incorporated in the RT311 and RT314 RAS software version V3.25(CA.0). The enhancements and fixes are those added since the previous RAS software release V3.22.

IMPORTANT: PLEASE READ THE SECTION "UPGRADING TO THE NEW SOFTWARE" BEFORE ATTEMPTING TO UPGRADE YOUR ROUTER.

New Features Overview

Port Range Forwarding

In previous versions, the user could only specify the forwarding of single port numbers. You can now specify ranges of ports for forwarding to local servers.

Enhanced Browser-Based Configuration

All commonly-used features are now available in the browser-based Web Manager (the Telnet Manager is still available for designing custom filters). The new software also allows software upgrades using your browser.

Revised Manual Available

An updated Reference Manual is available on Netgear's website. This manual describes the enhanced Web Manager.

Other notes

1. By default, incoming TELNET, FTP, and HTTP requests arriving at the WAN port are rejected. To allow these requests, remove the filter #3 selection from Input Filter Sets in the Remote Node filter set menu (internal Menu 11.5), or modify filter #3 to allow the desired services.
2. When using NetMeeting behind NAT to connect to an outside user, the outside user will see two identical users in screen.
3. MIRC version 5.31 is supported. This software does not support MIRC DCC after version 5.31.

Upgrading to the new software

The upgrade files can be used for either RT311 or RT314. The upgrade files are:

- | | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 314v325.bin | This is the main router software, to be uploaded via the browser interface Maintenance->Upgrade page, or by FTP into file 'ras'. |
| romfile0.314 | This is the factory default config file, to be uploaded via the browser interface Maintenance->Restore page, or by FTP into file 'rom-0'. |

Please write down all of your configuration information before upgrading.

If you are already using v3.24, you can upgrade by using the browser interface Maintenance->Upgrade menu. If you are now using a version prior to v3.24, you can update the router software over the LAN using an FTP client program. Windows includes an FTP client program that can be accessed using the Start button and Run menu. Other FTP client programs are available through many software retailers and shareware sites.

To update the router software using the Windows FTP client:

1. Download the upgrade files to your Windows desktop and unzip them if necessary.
2. From the Windows Start button, select Programs, (or Programs->Accessories) then choose MS-DOS Prompt.
3. At the MS-DOS prompt, type **cd c:\windows\desktop** and press ENTER.
This will bring you to the directory where the upgrade files are located.
4. Type **ftp 192.168.0.1** and press ENTER.
5. Login to your router.
No login name is necessary - press ENTER for name. The password is the current Manager password. The factory default password is 1234.
6. After you have logged in, type **bin** and press ENTER.
This selects a binary transfer instead of ascii.
7. Type **put filename ras** and press ENTER.
In place of *filename*, use the name of the main router software upgrade file, such as 314v325.bin.
For example:
put 314v325.bin ras
8. Your ftp session will be automatically disconnected and your router will now reboot.
9. Type 'bye' to exit FTP and type 'exit' to close the MS-DOS window.

To send the blank configuration file romfile0.314, follow the steps above **except** for the following:

7. Type **put filename rom-0** and press ENTER.
In place of *filename*, use the name of the **factory default config file**, such as **romfile0.314**. Note that the 0 in rom-0 is a zero, not the letter o.
For example:
put romfile0.314 rom-0

IMPORTANT -- Notes on the upgrade:

- This new software version does not need and will not work with any previously released FirstGear configuration software. Use the browser interface or the internal (Telnet) interface for configuration.
- You can use FTP for installing this upgrade only if your existing software version is v2.50 or greater. If your software is older than v2.50, refer to the *Reference Manual* for instructions on upgrading.

- If you are upgrading from 2.xx software, you must load the new romfile0.314 configuration file after loading the new software. Please write down all your configuration information before upgrading.

Modifications and Bug Fixes

1. In romfile0.314, removed FTP, HTTP, Telnet filter from WAN. After filter is removed, these protocols may now be forwarded in the same manner as any other incoming service.
2. Added PPTP login support for European ISPs, such as Alcatel ANT service.
3. Added NAT support for Net2phone, ICQ phone, Netbios over TCP.
4. Added many new pages to Web configuration.
5. Added Australia support.
6. PPPoE would previously crash if more than eight service names were listed.
7. ViaVideo support added.
8. Added Port Forwarding setup in Web configuration.
9. Added Long PPPoE username support.
10. Telnet Menu 1: changed 'Configure Dynamic DNS' to 'Edit Dynamic DNS'.
11. Added Outgoing Authentication in Menu 11.1.
12. Fixed NAT failure if IP Address changes on renewing DHCP Client info.
13. Modify the FTP server's RAS code file attribute.
14. Fixed ICMP and traceroute packet loss in NAT mode.
15. Fixed Tracelog bug that caused system hang.
16. Dropchute support added.
17. Fixed bug causing ICMP packets with data size over 1474 to be dropped.
18. Modify DDNS update mechanism to save update timestamp and update IP address.