



## **NETGEAR**

### **RT311 and RT314 Gateway Routers**

#### **Version 3.22**

This note describes enhancements and bug fixes incorporated in the RT311 and RT314 RAS software version V3.22. The enhancements and fixes are those added since the previous RAS software release V3.20.

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

### **New Features Overview**

#### **Port Forwarding Available in Browser-Based Configuration**

It is no longer necessary to user Telnet to configure Port Forwarding, which can now be configured in the browser-based configuration menus.

#### **Longer User Name Allowed in PPPoE**

More characters are now allowed when configuring the PPPoE User Name from the browser-based configuration menu.

#### **Revised Manual Available**

An updated Reference Manual is available on Netgear's website.

#### **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:

314v322.bin	This is the main router software, to be uploaded by FTP into file 'ras'.
romfile0.311	This is the factory default config file, to be uploaded by FTP into file 'rom-0'.

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. Extract the files to some known directory with a simple pathname. (e.g. c:\RT314)
2. From the Windows Start button, select Programs, then choose MS-DOS Prompt.
3. Go to the directory where you have extracted the files to. (e.g. cd c:\RT314).  
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. 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 314v322.bin.  
For example:  

```
put 314v322.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 romfile0.311, 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 **romfile0.311**. Note that the 0 in rom-0 is a zero, not the letter o.  
For example:  

```
put romfile0.311 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 romfile0.311 configuration file after loading the new software. As a precaution, please write down all your configuration information before upgrading.

## Modifications and Bug Fixes

1. Added Australia support.
2. PPPoE would previously crash if more than eight service names were listed.
3. ViaVideo support added.
4. Added Port Forwarding setup in Web configuration.
5. Added Long PPPoE username support.
6. Telnet Menu 1: changed 'Configure Dynamic DNS' to 'Edit Dynamic DNS'.
7. Added Outgoing Authentication in Menu 11.1.
8. Fixed NAT failure if IP Address changes on renewing DHCP Client info.
9. Modify the FTP server's RAS code file attribute.
10. Fixed ICMP and traceroute packet loss in NAT mode.
11. Fixed Tracelog bug that caused system hang.
12. Dropchute support added.
13. Fixed bug causing ICMP packets with data size over 1474 to be dropped.
14. Modify DDNS update mechanism to save update timestamp and update IP address.