NetRS™ GPS Receiver

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Release Notice
This is the November 2004 release (Revision A) of the NetRS GPS Receiver Release Notes. It applies to version 1.11 of the NetRS GPS receiver.

Product Information

These release notes describe the new features in this major firmware release (version 1.11) for the Trimble® NetRS™ GPS receiver. For further information, refer to the:

- *NetRS GPS Receiver User Guide*, which is included on the CD

- Online help, through the web browser

If your NetRS GPS receiver is supplied with other Trimble software, you must run the antenna and receiver configuration update program on the CD. This program updates your software with the most current information for all supported receivers and antennas.

The CD also contains data format conversion programs.

For more information about the CD distributed with the NetRS GPS receiver, refer to the *NetRS GPS Receiver User Guide,* which is included on the CD.

For information about the CD distributed with *another* Trimble product, refer to the user guide or CD for that product.

New Features

The following features are now supported. For detailed information on each feature, please see the help information on the associated web pages referenced below.

Feature	Usage or description
Programmable MTU	Adjust the packet size for data transmission. In highly congested or slow networks, this can improve latency and reduce packet loss, especially with packet cellular connections. (See "Ethernet" under "Internet".)
Client Authentication	Protect any TCP, UDP, or REP streamed port with a password. (See "Client Authentication" under "I/O Configuration".)
Session Pooling	Predefine storage space, with individual auto-delete capabilities, for individual logging sessions. Specify a minimum amount of storage space to reserve for firmware files. (See "AutoDelete" under "Data Logging".)

Feature	Usage or description
Shutdown Voltage	Program the receiver shutdown voltage to avoid conflicts with external low voltage disconnect (LVD) devices. (See "Shutdown Voltage" under "Receiver Configuration".)
IP Filtering	To limit access to the receiver, you can specify a range of IP addresses that are authorized to connect to the receiver. The receiver will not respond to attempts to connect from a non-specified IP address. (See "IP Filtering" under "Internet".)

Configurable ports:

The following service ports are now programmable.

FTP	The default is port 21. To help support operations behind a firewall, you can change this to any available value. (See "FTP" under "Internet".)
	You can disable this function.
HTTP	The default is port 80. To help support operations behind a firewall, you can change this to any available value. (See "HTTP" under "Internet".)
	You can disable this function.
HTTPS	The NetRS receiver now supports communication through encrypted HTTP.
	The default is port 443. To help support operations behind a firewall, you can change this to any available value. (See "HTTP" under "Internet".)
	You can disable this function.
PPP dialout	Configure the receiver to automatically dial out and connect to an Internet service provider. (See "PPP Dialout" under "I/O Configuration", and Serial Port 2 and 4 configuration options in "Port Configuration" under "I/O Configuration".)
BINEX data support	Log and stream BINEX data as defined by UNAVCO. http://binex.unavco.org/. (See documentation under the "Data Logging" and "I/O Configuration" menus.)
Port Advertising	Broadcast the receiver port configuration (through UDP) to a specified set of IP addresses. (See "Port Advertising" under "I/O Configuration".)

Resolved Issue

When clock steering is enabled, carrier phase values are now bounded to the range as defined by the RINEX standard.

Documentation Changes and Information

The *NetRS GPS Receiver User Guide*, version 1.11 is available on the CD or from Trimble Support.

Updating the Firmware

For information on how to install the firmware, refer to Chapter 5 of the *NetRS GPS Receiver User Guide*.

Registering the Receiver

Trimble recommends that you register your NetRS GPS receiver to protect your investment and to ensure that the system is always up to date. When you register the receiver, you will be notified by e-mail when there are updates to the receiver firmware, or when new functionality becomes available.

To register the receiver:

1. Run the *NetRS GPS Receiver* CD.

2. From the main menu, select *Register your receiver.*

3. Do one of the following:

   – To register online, select *Register using the Internet*. The online registration form opens in your default web browser.

     Fill in the required fields, and then click **Submit** to submit the completed form.

   – To register by facsimile or mail, select *Register using fax or mail*. The registration form opens in the Microsoft® WordPad editor.

     Fill in the required fields, print the form and then fax or mail it to the address shown at the bottom of the form.