

# Trimble NetRS Receiver resets Run Time at 497.1 Days

771 Freddy Blume November 23, 2015 [Trimble NetRS](#) 2987

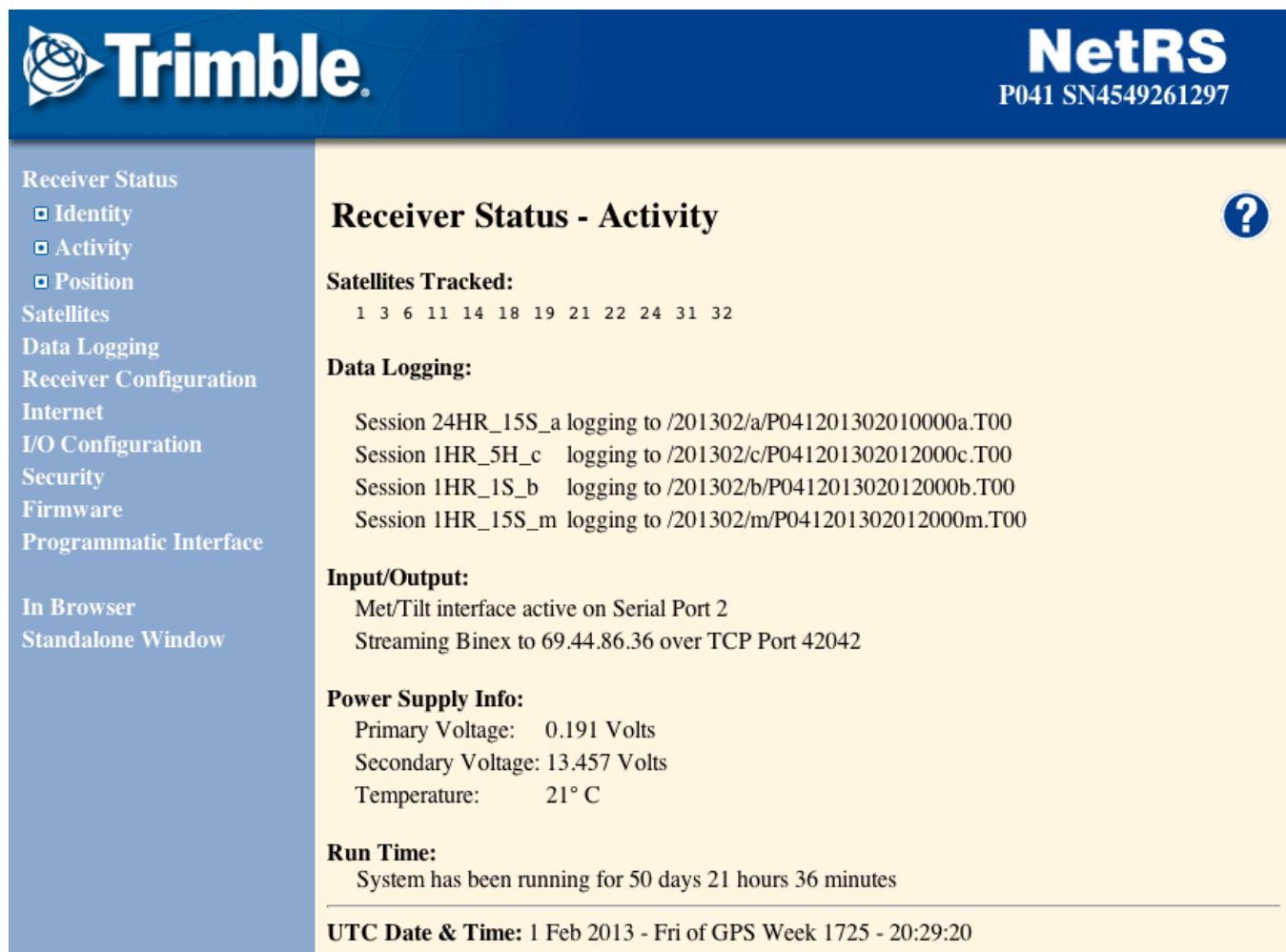
The "Receiver Status -> Activity" page on the NetRS shows the "Run Time" - the length of time since the receiver has last rebooted. However if the receiver has been operating continuously for more than 497.1 days, the counter will reset to zero without a reboot occurring. For example, a receiver that was last rebooted 597.1 days ago would show a Run Time of 100 days.

This is the result of the way uptime is stored in a standard linux kernel: as an unsigned long (32 bit) counter and counts a 100 Hz clock. Therefore, the 100 Hz clock rolls over after...

$0.01 * 2^{32}$  seconds

497 days 2 hours 27 minutes 52.96 seconds

This is known in the IT world as the "[497.1 Day Bug](#)", and while it has been observed to cause problems in some computing applications, no ill effects have been observed in our NetRS networks.



**Trimble** **NetRS**  
P041 SN4549261297

**Receiver Status**

- Identity
- Activity
- Position

Satellites

Data Logging

Receiver Configuration

Internet

I/O Configuration

Security

Firmware

Programmatic Interface

In Browser

Standalone Window

**Receiver Status - Activity**

**Satellites Tracked:**

1 3 6 11 14 18 19 21 22 24 31 32

**Data Logging:**

Session 24HR\_15S\_a logging to /201302/a/P041201302010000a.T00  
Session 1HR\_5H\_c logging to /201302/c/P041201302012000c.T00  
Session 1HR\_1S\_b logging to /201302/b/P041201302012000b.T00  
Session 1HR\_15S\_m logging to /201302/m/P041201302012000m.T00

**Input/Output:**

Met/Tilt interface active on Serial Port 2  
Streaming Binex to 69.44.86.36 over TCP Port 42042

**Power Supply Info:**

Primary Voltage: 0.191 Volts  
Secondary Voltage: 13.457 Volts  
Temperature: 21° C

**Run Time:**  
System has been running for 50 days 21 hours 36 minutes

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**UTC Date & Time:** 1 Feb 2013 - Fri of GPS Week 1725 - 20:29:20

Online URL: <https://kb.unavco.org/article/trimble-netrs-receiver-resets-run-time-at-497-1-days-771.html>