

# T-Series NTP Network Time Server

## Firmware Version Control

Models Covered: T100, T300, T550  
Document Number: T1320-03  
Date: 10 March 2020

The latest version of this user guide can be obtained from [TimeToolsLtd.com](http://TimeToolsLtd.com)

To take advantage of new features, security updates and bug fixes, TimeTools recommends that customers regularly check that their T-Series network time servers firmware is up to date.

New firmware updates are announced on Twitter at <https://twitter.com/timetoolsuk>

Firmware updates can be downloaded from TimeTools website at:

<https://timetoolsltd.com/support/download/t-series-firmware/>

**Firmware release: 1.0.001**

**Release date: 27-JAN-17**

Initial create.  
GNSS receiver module firmware 1.03.0

**Firmware release: 1.0.002**

**Release date: 03-DEC-18**

GNSS receiver module firmware update to 1.05.0  
Option to select GNSS constellation (T550 only).  
Added option to allow mobile GNSS operation, in addition to standard static positioning mode.  
New command line interface (CLI) available from SSH or serial console session – nts command.  
Restrict NTP time adjustments to a maximum of 1000 seconds (approx. 16 minutes).  
Allow HTTPS protocol to be disabled, if required.  
Option to disable root and timetools user accounts.

**Firmware release: 1.0.003**

**Release date: 03-JUN-19**

Modification to periodically clear SSH log files. The SSH log files can become quite large over time, particularly if there has been a large number of invalid login attempts. These logs are now periodically cleared to prevent them from becoming too large.  
GNSS reference clock service modified to further improve offset filtering.

**Firmware release: 1.0.004**

**Release date: 05-MAR-20**

Fix for [CVE-2020-8964] and [CVE-2020-8963]. Prevent unauthorized access by removing "hard-coded cookie".  
Prevent OS command injection by employing strict validation of web page input fields.

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