

T-Series NTP Network Time Server

Firmware Version Control

Models Covered: T100, T300, T550
Document Number: T1320-04
Date: 03 September 2020

The latest version of this user guide can be obtained from 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.

Firmware release: 2.0.001
Release date: 13-OCT-20

Linux kernel 4.4 LTS, OpenSSH 8.3p1, OpenSSL 1.1.1g, NTP 4.2.8p15, nginx 1.18.0, fcgi 2.4.2, net-snmp 5.8.
Implement SNMP v3.
Updated T-Series MIB file.

While reasonable efforts have been taken in the preparation of this document to ensure its accuracy, TimeTools Limited assumes no liability resulting from any errors or omissions in this manual, or from the use of the information contained herein.