TS-2560/TS-2220 Release Notes

Version	Released Date	Classification	TS-2220-10 GNSS	TS-2560-11 GNSS	TS-2560-51 Secondary	Contents
8.0.0	Oct 15th, 2025	Added Features	✔	✔	✔	Supported SNMPv3.
			✔	✔	✔	Added a feature to specify preferred primary NTP servers for synchronization.
			✔	✔		Improved the root dispersion value used for NTP synchronization.
			✔	✔		Enhanced the function to exclude abnormal satellites when receiving GNSS signal.
			✔	✔		Improved the synchronization mechanism so that GNSS synchronization at startup doesn't take more than 15 minutes.
		Revised issues	✔	✔		Fixed a problem that GNSS daemon occasionally terminates abnormally when a leap second is inserted.
			✔	✔	✔	Fixed a problem that unnecessary information may appear on the front LCD at startup.
7.0.0	Nov 29th, 2024	Added Features	✔	✔		Added a feature to receive Galileo positioning system in EU.
			✔	✔		Added a feature to display jamming information and whether or not spoofing is detected.
			✔			Added ACL(Access Control List) to TS-2220 as well as TS-2560.
			✔	✔	✔	Added a feature to send GARP when LAN port is linked up.
			✔	✔	✔	Added "NTP Service Status" to the top page of the Web.
			✔	✔	✔	Enhanced SSH cipher suite.
			✔	✔	✔	Added standard MIB object for SNMP interface group.
			✔	✔	✔	Added a feature to fix Ethernet communication speed(10/100/1000Mbps) and communication method(full/half).
			✔	✔	✔	Added log message when synchronization state transitions to local clock.
			✔	✔	✔	Improved the process of getting system uptime in sysUpTime of SNMP standard MIB.
			✔	✔	✔	Improved the name resolution procedure after NTP communication fails when the upper NTP server is registered with FQDN.
		Fixed Vulnerability	✔	✔	✔	Fixed HTTP/HTTPS vulnerability(CVE-2018-25103).
		Revised issues	✔	✔		Fixed a problem in GNSS status display that satellite name with satellite number 99 was not displayed correctly (occurred only in v6.0.0).
			✔	✔		Fixed a problem in which satellite number 99 could not be specified in the GNSS satellite number mask function (occurred only in v6.0.0).
6.0.0	Mar 7th, 2024	Added Features	✔	✔		Enhanced GNSS jamming and spoofing protection. Support for new revisions of GNSS receivers. [Caution!] GNSS models cannot be downgraded from version 6.0.0 to firmware prior to 5.0.0.
			✔	✔	✔	Added a feature to automatically save logs per 1hour.
			✔	✔	✔	Added trace command to capture packets sent and received by the time server.
		Improved features	✔	✔	✔	Improved the displaying speed of the NTP traffic information. (Status and Statistics-NTP Traffic on the Web screen and the show ntp monitor command)
			✔	✔	✔	Improved NTP processing to reduce equipment load when receiving large numbers of NTP packets.
		Revised issues	✔	✔	✔	Fixed "500 Internal Error" when exporting files from the Web(System control/Export).
			✔	✔	✔	Corrected SYNTAX in tsNtpStratum of SNMP MIB object to Unsigned32.
5.0.0	Jan 31st, 2024	Added Features	✔	✔		Added dynamic measurement mode for vessels and vehicles to GNSS positioning method.
		Improved features	✔	✔	✔	Added DESCRIPTION to trap OID in MIB file.
4.2.0	Mar 27th, 2023	Fixed Vulnerability	✔	✔		Fixed SSH vulnerability(CVE-2016-2183).
		Improved features	✔	✔	✔	Fixed a problem in which the GNSS satellites were still being acquired but rarely remained out of sync (added automatic recovery process when the GNSS receiver detected an anomaly).
4.1.0	Mar 28th, 2022	Added Features	✔	✔	✔	Added support for Microsoft Edge. Fixed a problem that an error occasionally occurs when exporting files in version 4.0.0 or earlier via HTTPS.
		Improved features	✔	✔	✔	Improved a feature to avoid sending unnecessary link-up and link-down trap when SNMP parameters are changed.
4.0.0	Dec 21th, 2021	Added Features	✔	✔	✔	Added a feature to change the TCP port numbers of the following daemons to selectable number. TS-2560: Telnet(23)/SSH(22)/HTTP(80)/HTTPS(443) TS-2220: Telnet(23)/HTTP(80)
			✔	✔	✔	Added a feature which saves the execution history of the username command with hashed password to the command-log.
			✔	✔	✔	To clarify, Added the description "(as of boot)" to RTC Battery State displayed by Web-UI and CLI to avoid misunderstandings.
		Revised issues	✔	✔		Fixed a problem which displays "short" as the antenna state when TimeServer is booted with Force sync mode.
			✔	✔	✔	Fixed a problem which allowed users to input values outside the parameters set for timezones from CLI.
					✔	Fixed a problem that command-log cannnot be refered from Web-UI.
					✔	Fixed a problem which caused an error message when setting the leap second adjustment method to Gradual.
			✔	✔	✔	Revised a part of TS-NTP-MIB.txt content according to ASN.1 format.
3.1.0	Apr 9th, 2021	Added Features	✔	✔	✔	Added a feature which enables to set multiple community to SNMP server.
				✔	✔	Added a feature which avoids setting same network segment and IP address to different LAN interface of TS-2560.
		Revised issues	✔			Fixed a problem which rarely occurred, making TS-2220-10GNSS enter restart mode repeatedly from the 2.1.0 or earlier update to 2.2.0 or 3.0.0.
			✔	✔	✔	Fixed a problem which removes the current configuration of name servers when it is configured from Web-UI which is directly accessed by inputting URL address of name servers configuration.
3.0.0	Dec 18th, 2020	Added Features		✔	✔	Added support for TS-2560-51 secondary server, which only supports other NTP server as a time source.
			✔	✔	✔	Added a feature to display system uptime by Web-UI/CLI.
			✔	✔	✔	Added information of the firmware version to the result of SNMP sysDescr.
		Changed Specifications	✔	✔	✔	Extended the number of the available syslog server from 3 to 5.
		Revised issues	✔	✔	✔	Fixed a problem that TimeServer automatically reboots after 388 days from the system starts up.
			✔	✔	✔	Fixed a problem that TimeServer goes to unsync after 99 hours even when Local clock Holding time is set to INF.
			✔	✔	✔	Fixed a problem that the parameters of network address format cannot be set using Internet Explorer.

Regarding the firmware version, please reconfirm the actual Time Server by Web-UI or CLI.
TimeServer with the previous version might be shipped after new firmware is released.