



## Firmware for TN-5500A Series (TN-5516A, TN-5518A) Release Notes

<b>Version: v4.1</b>	<b>Build: 25121816</b>
<b>Release Date: Dec 31, 2025</b>	

### Applicable Products

N/A

### Supported Operating Systems

N/A

### New Features

Not applicable.

### Enhancements

Not applicable.

### Bugs Fixed

- After upgrading the device to firmware v4.0, the Fault LED remains constantly on.
- The system unintentionally resolves the DNS IP information and redirect clients to this host IP address to establish the connection.

### Changes

- The "Set Device IP" function now operates even when ACCU (Auto Config Change Update) is enabled and the SCP server has not yet connected.

### Notes

Not applicable.

<b>Version: v4.0</b>	<b>Build: 25091717</b>
<b>Release Date: Oct 15, 2025</b>	

## Applicable Products

TN-5500A Series

## Supported Operating Systems

N/A

## New Features

- Added support for the Duplicate IP Detection function.
- Added support for the Custom Default function.
- Added support for the Conditional Auto IP Assignment and Train Information functions.
- Added support for the Auto Configuration function.
- Added support for the User Privilege function.
- Added support for the Process and Status Report function.
- Added support for the Auto Config Change Update function.
- Added support for the DHCP Server Option 66/67 function.

## Enhancements

- The switch will now reply to DNS query packets with Additional Records of the OPT type.
- Users can now enable or disable IGMP functionality on individual ports.
- Added an action progress indicator icon to the web interface.
- Added a delay option to the Syslog settings to delay sending logs to the Syslog server during startup.
- Added the Custom Encryption Key option to Configuration Backup/Restore.
- Added a Configuration Name option to Configuration Backup/Restore.
- Added an Extended mode option to Fault LED.
- Added a Warning notification option for the Traffic Overload T(X) event.
- Added support for the SNMP Get IldpRemManAddrTable(1.0.8802.1.1.2.1.4.2) object to retrieve the remote management IP address.
- Added a Log Server field (DHCP Option 7) to Automatic Set Device IP by DHCP/BootP/RARP for sharing log server information.

## Bugs Fixed

- The Dynamic Ring Coupling function cannot operate correctly when using Turbo Ring v2 with LACP Trunk ring ports.
- Unplugging a single cable from an LACP Trunk port on a Turbo Ring V2 ring switch will briefly cause both the Dynamic Ring Coupling primary and backup coupling ports to enter a forwarding state simultaneously.
- Clicking "ABC import" in the web user interface will cause the device to reboot.
- The PoE behavior does not align with the corresponding configuration on the device.
- When any redundant protocol (RSTP, Turbo Ring V2, Dynamic Ring Coupling, MSTP) is enabled, importing a configuration file via CLI will temporarily cause a network loop.
- The DSCP value shown on the ToS/DiffServ Mapping page is incorrect.
- When the SNTP Client is enabled, the switch will incorrectly record a "The time server query timed out" log entry every time the device reboots.
- If a trunk group is configured on the device, when importing a configuration file that contains static multicast entries for the trunk group, the import process will fail.
- Disabling the HTTP interface via the CLI will also disable the HTTPS interface.
- If the configuration file imported via CLI disables the HTTP interface, any subsequent reboot command issued through the CLI will fail.
- The device may reboot after receiving a large volume of DHCP client requests.

- A specific sequence of operations causes the event log to display an out-of-range port number (65536) when logging DHCP client information received by the switch.
- After importing a configuration file via the web interface, the Power Allocation value is set incorrectly.
- After importing a configuration file, the assigned IP address is configured incorrectly, causing the switch to become inaccessible.
- Enabling or disabling the coupling port for Turbo Ring V2 may result in the loss of packets on Ring 2.
- Enabling or disabling the Accessible IP feature by importing a configuration file will fail.
- An excessively large DNS server packet that exceeds the device's defined array size can lead to system instability.
- The SNMP MIB file cannot be successfully imported into the MIB Explorer Pro tool.
- After importing the configuration file via web UI or CLI, the PoE port power allocation value displayed on the web page is incorrect.
- After configuring RSTP and enabling any port, the event log will record abnormal information.
- If Daylight Saving Time (DST) is enabled in the system time settings, after rebooting the switch the system time will be moved up by an extra hour unless it syncs with an NTP server again.
- When a user imports a configuration file via the web interface that contains more than 512 static multicast entries, the web interface fails to display an error message or halt the import process.
- The switch still responds to NTP symmetric mode packets when the NTP Server function is disabled.
- When a device has already dynamically learned multicast addresses via IGMP, importing a configuration file that sets static multicast addresses may fail to apply the new static entries.
- The system time year value changes to 2045 after performing a cold start.
- When operating in extreme cold (around -25°C), Turbo Ring takes longer than 3 minutes to reach a stable state and the device may experience issues when rebooting.
- [CVE-2025-1679] Stored Cross-site Scripting.
- [CVE-2025-1680] Host Header Injection.
- [CVE-2024-7695] Out-of-bounds Write.
- [CVE-2024-9137] ICMP Timestamp Request Remote Date Disclosure.

## Changes

- The system will now ignore IGMPv3 join requests for multicast groups within the 224.0.0.x - 239.0.0.x and 224.128.0.x - 239.128.0.x ranges.
- Adjusted the way the switch handles received Kiss-o'-Death (KoD) packets when acting as an NTP client.
- The measurement unit for the NTP/SNTP DNS server timeout event log has been changed from

milliseconds to seconds.

- The Set Device IP function will now only propagate log server (Option 7) information if the respective value is provided.
- Changed the DHCP Option 61 MIB OID from 84 to 90.
- The System Name is now displayed in the web interface.
- Removed the ineffective mcast-filter forward-all CLI command.
- Adjusted the IGMPv2 Join mechanism.
- Adjusted the IGMPv2 Leave mechanism.
- The system now supports importing configuration files that include a configuration header.

## Notes

- Firmware v4.0 is incompatible with configuration files from older firmware versions. When restoring the configuration using an ABC-01 Series device, make sure the configuration saved on the ABC-01 was created using firmware v4.0. Importing an older firmware configuration file may cause instability.
- To forward multicast streams for IGMPv2 Join requests to member ports in the 225?239.0.0.x or 225?239.128.0.x address ranges, you must manually configure the corresponding MAC address as a static multicast entry.
- While the device allows you to configure and display a unique querier port for each VLAN, the device cannot forward the multicast stream to the corresponding querier port for that specific VLAN due to a MAC chip limitation.
- To ensure all features work correctly, firmware v4.0 must be used with the latest versions of MXconfig (v3.4) and MXview One (v1.6). Using older versions may cause some functionality to be unstable or unavailable.



<b>Version: v3.13</b>	<b>Build: FWR_TN5516A_18A_V3.</b>
<b>Release Date: May 23, 2024</b>	

### **Applicable Products**

N/A

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Turbo Ring V2 can now pass through LACP trunk ports when Dynamic Ring Coupling (DRC) is enabled.

### **Bugs Fixed**

- Vulnerability issue: MPSA-230203 including CVE-2005-4900
- Vulnerability issue: CVE-2015-9251
- Vulnerability issue: CVE-2019-11358
- Vulnerability issue: CVE-2020-11022
- Vulnerability issue: CVE-2020-11023

### **Changes**

N/A

### **Notes**

N/A

<b>Version: v3.12</b>	<b>Build: N/A</b>
<b>Release Date: Mar 01, 2024</b>	

## Applicable Products

N/A

## Supported Operating Systems

N/A

## New Features

- Added support for DHCP Option 61 - Option 61 in DHCP is a client identifier that is sent by all DHCP clients in the DHCP packet 1. It is used to identify a DHCP client uniquely and to configure manual bindings, For now, the value of 2. DHCP Option 61 is user-defined.
- Trunk ports can support two redundant protocols - RSTP and Turbo Ring v2.
- Added support for Secure Copy Protocol (SCP) for firmware upgrade, event log, and configuration backup transmissions.

## Enhancements

- Enhanced the RADIUS login functionality:
  - Added support for additional authentication types: CHAP, MSCHAPv2.
  - Added support for a 2nd RADIUS authentication server for redundancy purposes.
  - Added a new event log for successful logins.
- Users can set DeviceIP for the trunk port.
- SNMP v3 now supports AES encryption.
- Static multicast and IGMP now share one MAC table to give users more flexibility and higher capacity for their applications.
  - TN-4500A has a total of 512 MAC entries shared between static multicast and IGMP.
  - TN-5500A has a total of 256 MAC entries shared between static multicast and IGMP.
- The web interface can now be accessed through mirror ports.
- The TN-5508A and TN-5510A will now assign the new PCP based on the port priority as configured in the QoS settings.

## Bugs Fixed

- Importing a configuration file via TFTP when using DHCP Option 66 & 67 would fail.
- Even if a device and gateway are in the same subnet, users can not assign an IP address (\*.\*.255) to the device using the SetDeviceIP function.
- From the WEB GUI, users can't set an IP address(0.0.0.0) to the DNS and NTP server when using the SetDeviceIP function.
- ACL rules may sometimes make STP unstable and cause network looping.
- Configuring the syslog server domain name using SNMP or MXconfig would fail.
- When IGMP is enabled, the device is unable to forward unknown IP multicast packets.
- CVE-2022-0778: OpenSSL vulnerability.
- UDP/TCP ports remain open even when the relevant network functions that use these ports are disabled.
- The device fails to synchronize with the NTP server periodically if the device has been running for a certain period or after restarting.
- The IGMP Static querier port does not work as intended.
- When IGMP is disabled but a filter for unknown multicast packets is enabled for the Multicast Forwarding Behavior (MFB) function, the device will still forward some IGMP packets.
- The displayed trunk port TX and RX packet counters are inaccurate.
- When using the “show MAC table” CLI command, trunk port entries are missing from the table.
- When users configure the Dual Homing primary and backup ports via SNMP, there is no message to inform users when the settings have reverted to their default values again.

- When acting as a DHCP server, the device will drop DHCP requests from clients using Option 61.
- When consecutively enabling or disabling the Turbo Ring Coupling function, the device will occasionally lose packets on the ring port.
- Turbo Ring slave devices do not correctly adjust their status after recovering from a power failure.
- Cybersecurity vulnerability: MPSA-230307

### Changes

- For security reasons, multicast packets will be blocked if the ingress port is not authenticated by 802.1x.
- To improve interoperability with Moxa devices, the "EAP-MD5 Extra Data" field will no longer be used for 802.1x authentication.

### Notes

- Secure Copy Protocol (SCP) encrypts file transfers between the switch and the remote host and required considerably more computing power. Therefore, we do not recommend using SCP to transfer event logs as the high volume of logs may cause the web interface to become unresponsive.
- If users want to import a configuration file through DHCP Option 66 & 67, the switch will only support the configuration file format (.ini file) exported via the switch web interface.
- When importing a configuration file through DHCP Option 66 & 67, the following information can not be updated: AUTOIP, IPAddress, Netmask, Gateway, DNSIP, DNSIP1, PV6AddressPrefix, DHCP\_FILTER\_ENABLE\_(port index), HCPRetryPeriod, DHCPRetryTimes, OPTION61\_ENABLE, OPTION61\_TYPE, OPTION61\_USER\_DEFINED\_CLIENT\_ID.
- Static multicast and IGMP static querier port cannot operate at the same time. After configuring a static multicast group, the IGMP static querier port will not forward to that multicast group anymore.
- If users enable Multiple Spanning Tree Protocol (MSTP) and GARP VLAN Registration Protocol (GVRP) at the same time, MSTP convergence would be affected. Therefore, we do not recommend enabling both these functions at any given time.
- From now on, upon receiving a DHCPDISCOVER message with a unicast flag from a DHCP client, the switch will respond to the DHCP client with a DHCPOFFER message via Layer 2 unicast.
- With firmware v3.12, the following functions and protocols are no longer supported:
  - Industrial protocols: Modbus, EtherNet/IP
  - IEEE 1588 PTP
  - Turbo Chain v1
  - TLS v1.0, v1.1



<b>Version: v3.10</b>	<b>Build: N/A</b>
<b>Release Date: Nov 16, 2021</b>	

### **Applicable Products**

TN-5516A, TN-5518A

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Added support for TLS v1.2.

### **Bugs Fixed**

- If a configuration conflict occurs during firmware upgrading, the device password is unexpectedly changed.
- If loop protection and redundancy protocols are working simultaneously, the set port stp state recorded by the software is different from the actual driver setting.
- When exporting the configuration through the console, the device will reboot.
- When logging in using an account name longer than 8 characters, the device will reboot
- Accounts with the "User" privilege level are able to obtain the password information of administrator-level accounts through the CLI.
- Exported log files are incomplete or show incorrect information.
- If an event log is produced during a firmware upgrade, the firmware upgrade process will fail.

### **Changes**

- Removed the Menu mode from the CLI console.

### **Notes**

N/A





<b>Version: v3.9</b>	<b>Build: 20021315</b>
<b>Release Date: May 06, 2020</b>	

**Applicable Products**

TN-5516A, TN-5518A

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

- The timestamp (hour) is different from the original setting after the device is rebooted.
- If the RTC battery is fully discharged, the firmware doesn't correctly conduct the RTC battery recharge process.

**Changes**

N/A

**Notes**

N/A



<b>Version: v3.8</b>	<b>Build: 20101414</b>
<b>Release Date: Oct 01, 2019</b>	

### **Applicable Products**

TN-5518A, TN-5516A

### **Supported Operating Systems**

N/A

### **New Features**

- Added support for Security Guideline level 2.
- Added DNS Server functionality.

### **Enhancements**

- Added compatibility drivers for new hardware components (Flash/RTC/CPU).

### **Bugs Fixed**

- A Router Alert Option is added to all IGMP packets.
- The event log is unable to display dates after February 2038 (Y2K 2038).
- The "Set Device IP" function in the Web UI rejects valid IP addresses that contain the value "255".
- Under certain conditions, the Option-82 Relay function sends duplicate unicast DHCP Discover packets.
- The device cannot be accessed through HTTP/HTTPS after changing the device IP.
- The NTP query interval does not function properly.
- Incorrect language and information in the UI.

### **Changes**

- The UI can now display both original (5 digits) and extended device serial numbers (12 digits).
- DHCP Option-82 Relay & Set Device IP now function per port.

### **Notes**

N/A



<b>Version: v3.7</b>	<b>Build: N/A</b>
<b>Release Date: May 17, 2016</b>	

**Applicable Products**

N/A

**Supported Operating Systems**

N/A

**New Features**

NA

**Enhancements**

NA

**Bugs Fixed**

Fixed PoE user interface settings issue.

**Changes**

NA

**Notes**

N/A