



Firmware for EDS-G512E Series Release Notes

Version: v6.7	Build: N/A
Release Date: Nov 27, 2025	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- The VLAN priority of packets is changed to 0 when passing through the switch.

Changes

N/A

Notes

N/A



Version: v6.6	Build: 25061200
Release Date: Jul 18, 2025	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Importing configuration files that contain Turbo Ring v2 settings may fail.
- [CVE-2025-1680] An open redirect vulnerability occurs when an application allows a user to control a redirect or forward to another URL.
- [CVE-2002-20001] The Diffie-Hellman Key Agreement Protocol allows remote attackers to send arbitrary numbers that are actually not public keys, and trigger expensive server-side DHE modular-exponentiation calculations.

Changes

- The system no longer sends a ping request when attempting to establish a connection to a RADIUS server to prevent an issue where the RADIUS does not respond due to connection restrictions.

Notes

N/A

Version: v6.5	Build: 25021113
Release Date: Mar 04, 2025	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

- Added support for dynamic VLAN assignment through a RADIUS server when enabling IEEE 802.1X.
- Added support for RSPAN.

Enhancements

- Added support for syslog server authentication through TLS.
- Added support for PAP and MS-CHAPv2 to MAB RADIUS authentication.
- Added support for the SSL certificate import CLI command.
- Added support for MRP functionality to the GSD file.
- Added support for a second RADIUS server to Login Authentication.
- Added a new handover mechanism to ensure a smooth failover to the second RADIUS server.
- Added a User-defined option to the MRP Domain UUID settings.
- If LACP is enabled, ports can no longer be disabled to prevent creating trunk ports from failing.
- Upgraded the encryption algorithm for key generation for SSL certificates.
- Added support for MRP mode to EtherNet/IP Redundant Device Mode.
- Users can now manually re-enable ports that were shut down by Rate Limiting before the shutdown timer expires from the Port Settings screen.
- Added support for MRP mode and related MRP information to Modbus.
- Migrated to 64-bit integers to circumvent the year 2038 limitation.
- Upgraded the encryption hash for the web login cookie from MD5 to SHA-2.
- Enhanced the SSH cipher suite.
- Added a User-defined RPI setting to the EDS file.
- Added a protection mechanism for Turbo Ring and Turbo Chain to avoid potential BPDU attacks.

Bugs Fixed

- The fiber port LEDs display incorrectly on ports that have Turbo Chain enabled.
- The fiber port LEDs display incorrectly after a power cycle.
- Broadcast packets are sometimes not forwarded correctly in L3 communication.
- The system unintentionally changes the VLAN priority value under certain conditions.
- The PoE port configuration table in the web UI is incomplete.
- Certain MAC addresses do not age out correctly and are associated with multiple ports.
- The relay alarm cannot be turned off when triggered by an event.
- If SNMPv3 is enabled, disconnecting ports may cause the system to occasionally perform a cold start.
- Logging in to the web interface via HTTPS may occasionally cause the device to reboot.
- The switch information in the CLI displays unexpected characters.
- Creating too many SSH sessions could cause the system to perform a cold start.
- The device cannot respond to PN-DCP packets when the PVID is not set to 1.
- Multicast streams are forwarded incorrectly after disabling and re-enabling IGMP Snooping.
- The device may receive the wrong port value for the 10G port when read from an MIB.
- Importing a configuration file fails after installing a Fast Ethernet SFP module
- Users cannot log in via HTTPS after performing a firmware upgrade.
- Login authentication does not work properly when using a RADIUS server with MS-CHAPv2

encryption.

- The web interface shows an incorrect model name.
- The system unintentionally disables the Turbo Ring coupling port in certain topologies.
- Auto importing configuration files from the ABC-02 tool fails.
- [CVE-1999-0524] Answering ICMP timestamp requests might lead to remote date disclosure.
- [CVE-2015-9251] jQuery versions prior to v3.0.0 may be vulnerable to Cross-site Scripting attacks, passing HTML from untrusted sources.
- [CVE-2019-11358] jQuery versions prior to v3.4.0 mishandle jQuery.extend because of Object.prototype pollution.
- [CVE-2020-11022] [CVE-2020-11023] jQuery versions later than v1.2 and prior to v3.5.0 may execute untrusted code when
- [CVE-2023-2650] Processing some specially crafted ASN.1 object identifiers or data containing them may be very slow.
- [CVE-2024-12297] Frontend authorization logic disclosure vulnerability.
- [CVE-2024-7695] An out-of-bounds write vulnerability caused by insufficient input validation allows attackers to overwrite memory beyond the buffer's bounds.
- [CVE-2024-9404] Due to insufficient input validation, exploitation of the moxa_cmd service could lead to denial-of-service or service crashes.
- [CVE-2024-9137] Attackers could execute specified commands to perform unauthorized downloads or uploads of configuration files and system compromise.

Changes

- Updated the Max. and Min. values for each SFP module in the Fiber Check in the web interface to remove the additional accuracy tolerance for consistency with the datasheet.
- Changed the recommended request packet interval (RPI) setting to 1000 ms.
- Changed the naming of Port Disable to Port Shutdown in the Rate Limiting Action setting.
- Changed the unit for Port Shutdown Duration from seconds to minutes.
- Changed the maximum Ping Tracking entries from 32 to 16.

Notes

- Due to an upgrade to the web login token hash algorithm, when using the Mxconfig Java version, certain functions must be configured through the CLI or in the non-java version of MXconfig. Affected functions include: SNMP, 802.1Q VLAN, 802.1X, Redundancy Protocols.



Version: v6.4	Build: 23102508
Release Date: Dec 08, 2023	

Applicable Products

EDS-G512E Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Added support for SFP auto-negotiation/forced mode CLI commands.
- Added a mechanism to prevent firmware downgrading to a version earlier than v6.2.

Bugs Fixed

- Login authentication fails when using MS-CHAPv2 with certain RADIUS servers.
- If the ring ports and coupling port are configured in a sequence (e.g. ports 1, 2, 3) and the coupling port is the last port in the sequence, the coupling link will not be established.

Changes

N/A

Notes

- Due to some changes to the components of the product, the device will be incompatible with certain older firmware versions. To ensure device stability, a mechanism has been added to prevent firmware downgrading to any version earlier than v6.2.

Version: v6.3	Build: 23032200
Release Date: Apr 24, 2023	

Applicable Products

EDS-G512E Series

Supported Operating Systems

N/A

New Features

- Supports the Media Redundancy Protocol (MRP).
- Supports the Secure Copy Protocol (SCP).
- Supports BPDU Guard and BPDU Filter.

Enhancements

- The connected IGMP querier IP address can be shown in the Web interface and the command line interface.
- There is a new SNMP Trap for when the status of the Digital Input (DI) changes.
- Supports "hmac-sha2-256 & hmac-sha2-256 & diffie-hellman-group14-sha256" in SSH.
- Supports 2048-bit RSA key in SSH and SSL.
- Removed the DSA key.
- The reset button is active for 10 minutes after rebooting the device.
- The Modbus/TCP protocol is disabled by default due to security concerns.
- The SNMP protocol is disabled by default due to security concerns.
- Supports TLS v1.3.
- The SFP Enable/Disable information can be shown via the CLI.
- Supports TACACS+ Authentication, Authorization, and Accounting via the Web interface and command line interface.
- Supports resetting specific interfaces to the default parameters via the command line interface.
- Supports sequentially showing VLAN Trunk Ports with port numbers.
- Supports a new CLI command "#sh logging event-log latest" to display the event log from the newest to the oldest.
- Supports the Error Disable function for any specific ports that are linked down.
- Supports two TACACS+ servers for Authentication, Authorization, and Accounting.
- Supports SNMPv3 with AES encryption.
- Supports RADIUS logging with MS-CHAPv2 encryption.
- Displays the Web and Console management session via the Web interface, command line interface, and SNMP.
- Supports adjustable threshold settings in the Fiber Check function.
- The HTTPS Warning in Chrome and Edge browsers when importing the RootCA has been stopped.
- Reserves only two ports for Turbo Ring when the DIP switch "TURBO RING" is on. (Four ports are reserved for Turbo Ring when the DIP switch "TURBO RING" and "COUPLER" are both on.)
- Adjusts the Syslog format of Local/RADIUS/TACACS+ login for better readability.
- Supports Syslog with the CEF format.
- Related TCP ports (#502 and #44818) are disabled when disabling Modbus TCP and EtherNet/IP.
- Supports a 12-digit serial number in Modbus TCP and EtherNet/IP.

Bugs Fixed

- When both Trap servers were set, only one of the server names could be saved.
- Operating SNMPv3 occasionally caused the device to reboot.
- Sending email notifications of cold/warm events occasionally failed.
- The Gigabit port occasionally links down after configurations were restored by the ABC-02 device.
- Specific LLDP packets occasionally caused the system to perform a warm start.

- Unable to set the Trunk VLAN using MXconfig.
- Importing the configuration file failed if the offset of daylight saving is 1.
- The wording of the SNMP port type on the Web interface was UDP not TCP.
- The account and IP address of TACACS+ AAA were shown in the event log when TACACS+ AAA was successful.
- When the authorization or accounting server disconnected, the local user ID was not able to login with "TACACS+, local mode".
- VLAN configurations occasionally impacted the traffic of Trunk ports.
- When copying and pasting commands in the CLI mode, the first two syntax-rows merged, which caused an error.
- When exporting the configuration file to the TFTP server, the configuration file name included an extra backslash "\".
- Part of the packet format of GMRP was incorrect (remove "GARP_END_MARK").
- High latency of SSH connection and SSH key exchange.
- Communication was lost for around 300 ms when changing the VLAN setting via the CLI.
- IEEE 802.1x re-authentication could not be disabled.
- Systems that used the module SFP-1FEMLC-T occasionally flapped.
- Incorrect value was set to SNMP ifLastChange after specific interfaces were down or up.
- The system occasionally rebooted when it was set with the maximum of 64 Tagged VLANs.
- The system occasionally rebooted when the LLDP table was in a specific condition."
- The system cold started when using N-Snap login via SSH.
- Users occasionally could not connect to the system via SSH.
- [CVE-2022-0778] Import certificate issue: Update OpenSSL package.
- The event alarm was triggered on disabled ports when the event trigger alarm was set on these ports.
- [CVE-2021-27417] The unverified memory assignment can lead to arbitrary memory allocation.
- The PoE port configuration table of the PoE settings could not be displayed completely.
- The space symbol " " in the SNMP location could not be displayed properly via the command line interface.
- The system occasionally rebooted while polling via Modbus TCP.
- System hangs or restarted when accessing the system via SSH by using Putty with version 0.60 or 0.62.
- The device occasionally could not be searched by the Moxa Ethernet Switch Configurator (edscfgui).

Changes

- Removed "recommended browser" in the Web interface.



- Cleaned the TACACS+ and RADIUS shared keys and SNMPv3 data encryption key after changing specific configurations (TACACS+/RADIUS login list, SNMP version, SNMP auth/encrypt option).
- The default settings of "Modbus TCP Enable" was changed from enabled to disabled because of security concerns.
- The default setting of "SNMP Enable" was changed from enabled to disabled because of security concerns.

Notes

- Due to updated security requirements, the cryptographic protocol used for HTTPS has been upgraded (TLS v1.3). To access the device via HTTPS after upgrading the firmware, it may be necessary to re-generate the SSL certificate through another interface and reboot the device first.

Version: v6.2	Build: 20080519
Release Date: Aug 07, 2020	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

- Supports Interface Tracking, Ping Tracking, and Logic Tracking.
- Supports many-to-many port mirroring.

Enhancements

- The CPU utilization now displays a percentage instead of 'Normal' and 'Busy'.
- Firmware upgrade processing status is displayed.
- Flash bootloader is locked to avoid miswrite.
- Email addresses can contain up to 37 characters.
- Email Mail Servers can contain up to 39 characters.
- Old version *.ini (below v6.0) can be imported into v6.2 firmware.
- The IEEE 802.1x traffic enablement method has changed from MAC-based to port-based.
- MAB supports the IEEE 802.1x local database.
- The PROFINET system name can contain up to 240 characters.
- Added an additional encryption option and command to the web UI and CLI.

Bugs Fixed

- [MSRV-2017-002][CVE-2019-6563] Predictable Session ID: Supports random salt to prevent session prediction attack of HTTP/HTTPS.
- [MSRV-2017-003][CVE-2019-6526] Encryption of sensitive data is missing: Supports encrypted Moxa service with enable/disable button on the GUI to support the communication of encrypted commands with MXconfig/MXview.
- [MSRV-2017-004][CVE-2019-6524] Improper restriction of excessive authentication attempts: Supports encrypted Moxa service with enable/disable button on the GUI to support the communication of encrypted commands with MXconfig/MXview.
- [MSRV-2017-005][CVE-2019-6559] Resource exhaustion: Supports encrypted Moxa service with enable/disable button on the GUI to support the communication of encrypted commands with MXconfig/MXview.
- [MSRV-2019-006] Denial of Service by PROFINET DCE-RPC Endpoint discovery packets.
- Enhanced SSH with secure key exchange algorithm, Diffie-Hellman Group 14.
- Improved random distribution of TCP Initial Sequence Number (ISN) values.
- The device would restart due to memory leak during the Nmap (a freeware that can scan the available ports) scanning test.
- Broadcast storm protection threshold changed from fps to kfps.
- RSTP Port Status error with Modbus TCP.
- IGMP Snooping issue while DSCP RW was enabled.
- Trunk port was not shown correctly in the LLDP table.
- The error with the Master LED indicator.
- The head switch of Turbo Chain was blocked when connecting to a Cisco switch.
- SNMP v3 memory leak.
- 10/100M and 1000M LED display incorrectly when connecting to the network interface card with Intel 8275I.
- The device rebooted when performing a Nessus basic scan.
- MAC authentication bypass with RADIUS re-authentication.

- When SNMP pooled every 10 seconds, the system would perform a cold start after 25 minutes.
- Unable to get a DHCP address.
- The LLDP Table hung up in a serial console.
- Packet flooding from MGMT VLAN to redundancy port PVID VLAN.
- CERT could not be imported.
- Error with Turbo Ring v2 and port trunk LLDP display, recovery time and log miswrite.
- Relay warning caused fault LED indicator to malfunction.
- Relay warning did not work properly after the system rebooted.
- RSTP was not activated correctly through the configuration file import.
- Incorrect value for IGMP Query Interval on the exported configuration file.
- Logging in to the web console failed if authentication with local RADIUS and account lockout were both enabled at the same time.
- Turbo Ring v2 looped when too many slaves in the ring were powered on at the same time.
- The EDS-G500E Series automatically performed a cold start when receiving specific SNMPv3 packets.
- The default priority of IEEE 802.1p did not work.
- The topology of Turbo Chain continuously changed because multicast storm protection was enabled.
- The IP-based multicast control packet was blocked from entering the CPU interface.
- [CRM #200811300717] If a username had a capitalized letter then the user would not be able to log in using Menu mode.
- [CRM #190726273178] Unauthorized 802.1x devices could receive multicast and broadcast packets.

Changes

N/A

Notes

MSRV is Moxa's internal security vulnerability tracking ID.



Version: v6.1	Build: EDSG512E_V6.1_Build_20010618
Release Date: Jan 07, 2020	

Applicable Products

EDS-G512E Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Prevents IP base multicast control packet flooding.
- [MSRV-2017-011][CVE-2019-6561] Supports “same-site” browser cookie parameters.

Bugs Fixed

- Login issue with Chrome v65.
- The system rebooted when a SNMP GET had request ID=0.
- The HTTP configuration was missing after the configuration file was imported.
- When DSCP remark was enabled and the VID exceeded 64, VLAN could not be added into the IGMP table.
- When DSCP remark was enabled, the VLAN tag would be added in egress.
- VLAN tag of IP/IGMP packets would be untagged abnormally.
- QoS default priority did not work.
- [MSRV-2017-006][CVE-2019-6557] Buffer overflow vulnerabilities that may allow remote control.
- [MSRV-2017-007][CVE-2019-6522] An attacker could read device memory on arbitrary addresses.
- [MSRV-2017-009][CVE-2019-6565] No proper validation of user inputs, which allowed users to perform XSS attacks.
- [MSRV-2017-011][CVE-2019-6561] CSRF attacks were possible if browser cookie parameters were not correct.

Changes

N/A

Notes

- MSRV is Moxa's internal security vulnerability tracking ID.



Version: v6.0	Build: 18022316
Release Date: Jan 18, 2019	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Updated OpenSSL to version v1.0.2k.
- Increased ARP table size from 100 to 5000 entries.
- Allowed 802.1X security port to also be set as a redundancy port with all redundancy functions.
- Improved ICMP response time to be within 200 ms.

Bugs Fixed

- Fixed the issue that caused the device to fail when importing configuration files for different firmware to FW 5.2.
- Fixed the VLAN configuration issue on the serial console interface.
- Fixed the issue that caused the switch to duplicate IP multicast packets in disabled VLANs when IGMP Snooping was enabled.
- Fixed the issue of LLDP destination address not being correct when using trunk ports.
- Fixed Gigabit Fiber speed display issue.
- Fixed DHCP discovery fail issue.
- Fixed the issue of not being able to use Loop Prevent while RSTP is enabled.
- Fixed the link issue that occurs when the Gigabit Fiber port connects with 100M SFP and imports a configuration via CLI through that port.
- Fixed the link issue when using 100M SFP to connect with non-Moxa switches.
- Fixed the issue that causes the DHCP client to be unable to obtain an IP Address when DHCP Relay is disabled.
- Fixed the LED display error when users configure Turbo Chain to use an "even" number port as its head port.
- Fixed the looping issue that occurs when rebooting the switch using the dual homing function.

Changes

- Encrypted security keys in CLI commands
- Added support for new hardware version and backward compatibility with older hardware versions (Note: Hardware versions later than 2.0.0 only support firmware version 6.0 or later)

Notes

N/A



Version: v5.2	Build: Build_17053111.rom
Release Date: Aug 21, 2017	

Applicable Products

EDS-G508E, EDS-G508E-T, EDS-G512E-4GSFP, EDS-G512E-4GSFP/KC, EDS-G512E-4GSFP-T, EDS-G512E-4GSFP-T/KC, EDS-G512E-8PoE-4GSFP, EDS-G512E-8PoE-4GSFP/KC, EDS-G512E-8PoE-4GSFP-T, EDS-G512E-8PoE-4GSFP-T/KC, EDS-G516E-4GSFP, EDS-G516E-4GSFP-T

Supported Operating Systems

N/A

New Features

- DSCP rewrite function. This feature is only available in Command Line Interface (CLI).
- Traffic rate setting in storm protection function. This feature is only available in Command Line Interface (CLI).

Important Notice: After upgrading the firmware, please reset the switch to the factory default settings and manually input the configuration settings. Users cannot import existing configuration files into firmware v5.2 due to a change in the software design.

Enhancements

- Increased Access Control List (ACL) support rules from 160 to 230 rules.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v5.1	Build: Build_16072215
Release Date: N/A	

Applicable Products

EDS-G512E-8PoE-4GSFP, EDS-G512E-8PoE-4GSFP/KC, EDS-G512E-8PoE-4GSFP-T, EDS-G512E-8PoE-4GSFP-T/KC, EDS-G516E-4GSFP, EDS-G516E-4GSFP-T, EDS-G508E, EDS-G508E-T, EDS-G512E-4GSFP, EDS-G512E-4GSFP/KC, EDS-G512E-4GSFP-T, EDS-G512E-4GSFP-T/KC

Supported Operating Systems

N/A

New Features

- System Notification: Definable Successful/Failed Login notification.
- Password Policy: Password Strength can be set.
- Account Lockout Policy: Failure Threshold and Lockout Time can be set.
- Log Management: Full Log Handling.
- Remote Access Interface Enable/Disable.
- Configuration Encryption with Password.
- Supports SSL Certification Import.
- Supports MAC Authentication Bypass via RADIUS Authentication.
- MAC Address Access Control List or MAC Address Filtering.
- Protects against MAC Flooding Attack by MAC Address Sticky.
- NTP Authentication to Prevent NTP DDoS Attack.
- Login Authentication: Support Primary & Backup Database Servers (RADIUS / TACACS+ / Local Account).
- Login Authentication via RADIUS Server: Support Challenge Handshake Authentication Protocol (CHAP) Authentication Mechanism.
- RADIUS Authentication: Support EAP-MSCHAPv2 (For Windows7).
- MXview Security View Feature Support* (with MXstudio v2.4).
- Turbo Ring v1/v2, Turbo Chain Support Port Trunking.
- Layer2 V-On.

Enhancements

- CLI: Supports Multiple Sessions (up to six).
- SMTP supports Transport Layer Security (TLS) Protocol and Removes SSL v2/v3.
- SNMPv3 Traps and Informs.
- Fixed Display Issue with Java Applet.
- Fiber Check: Added Threshold Alarm.
- Static Port Lock with IVL Mode.
- Serial Number: 12 Digital S/N Display.
- When GbE Port Speed is [Auto], MDI/MDIX is [Auto] Fixed.
- Web UI/CLI Command Enhancement and Modification.

Bugs Fixed

- Drown Attack.
- ICS-VU-951212 Vulnerabilities.
- Nessus Vulnerability.

Changes

N/A

Notes

N/A



Version: v4.2	Build: Build_15062316
Release Date: N/A	

Applicable Products

EDS-G508E, EDS-G508E-T, EDS-G512E-4GSFP, EDS-G512E-4GSFP/KC, EDS-G512E-4GSFP-T, EDS-G512E-4GSFP-T/KC, EDS-G512E-8PoE-4GSFP, EDS-G512E-8PoE-4GSFP/KC, EDS-G512E-8PoE-4GSFP-T, EDS-G512E-8PoE-4GSFP-T/KC, EDS-G516E-4GSFP, EDS-G516E-4GSFP-T

Supported Operating Systems

N/A

New Features

- Added new Multicast Fast Forwarding mode.

Enhancements

- Increased IGMP Groups to 2048 (original 256 groups).
- Improved Turbo Chain link status check mechanism at the head port.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v4.1	Build: Build_15010918
Release Date: N/A	

Applicable Products

EDS-G508E, EDS-G508E-T, EDS-G512E-4GSFP, EDS-G512E-4GSFP/KC, EDS-G512E-4GSFP-T, EDS-G512E-4GSFP-T/KC, EDS-G512E-8PoE-4GSFP, EDS-G512E-8PoE-4GSFP/KC, EDS-G512E-8PoE-4GSFP-T, EDS-G512E-8PoE-4GSFP-T/KC, EDS-G516E-4GSFP, EDS-G516E-4GSFP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

N/A

Changes

- Web user interface display errors under Java 8 environment.

Notes

N/A



Version: v4.0	Build: Build_13090210
Release Date: N/A	

Applicable Products

EDS-G508E, EDS-G508E-T, EDS-G512E-4GSFP, EDS-G512E-4GSFP/KC, EDS-G512E-4GSFP-T, EDS-G512E-4GSFP-T/KC, EDS-G512E-8PoE-4GSFP, EDS-G512E-8PoE-4GSFP/KC, EDS-G512E-8PoE-4GSFP-T, EDS-G512E-8PoE-4GSFP-T/KC, EDS-G516E-4GSFP, EDS-G516E-4GSFP-T

Supported Operating Systems

N/A

New Features

- New release for the EDS-G500E Series.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A