



Firmware for EDS-G509 Series Release Notes

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|-----------------------------------|------------------------|
| Version: v3.12 | Build: 26031310 |
| Release Date: Mar 31, 2026 | |

Applicable Products

EDS-G509 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- [MPSA-259470] Enhance SSH weak algorithm. Use ecdsa-sha2-nistp256 instead of ssh_rsa.key.

Bugs Fixed

- When using a domain name for the NTP server, the switch will fail to synchronize the time after rebooting.
- The web interface is not accessible via HTTPS when using an IPv6 address.
- Changing the password does not automatically redirect users to the login screen.
- [CVE-2020-11868] ntpd in ntp before 4.2.8p14 and 4.3.x before 4.3.100 allows an off-path attacker to block unauthenticated synchronization via a server mode packet with a spoofed source IP address, because transmissions are rescheduled even when a packet lacks a valid origin timestamp.
- When enabling Turbo Chain, the link on designated Turbo Chain ports unintentionally goes down.
- Logging into the RADIUS server fails if the username is longer than 8 bytes.

Changes

N/A

Notes

N/A

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|-----------------------------------|-------------------|
| Version: v3.11 | Build: N/A |
| Release Date: Sep 23, 2025 | |

Applicable Products

EDS-G509 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Added support for the SSL certificate import CLI command.
- Added support for the SSL certificate import CLI command.
- Users can now get the device serial number via SNMP.

Bugs Fixed

- [MPSA-245831] Enhanced the SSH cryptographic algorithm for improved security.
- Connecting the device to an HSR network over RSTP causes looping.
- The Modbus port information shows an incorrect port status when the port is not in use.
- When repeatedly restarting a Turbo Chain Member switch, the Turbo Chain may occasionally experience looping or the Member switch may become inaccessible.
- The SNMP object ifLastChange shows an incorrect value after the interface status changes.
- The bandwidth utilization shows incorrect information for some ports.
- [CVE-2023-2650] Processing some specially crafted ASN.1 object identifiers or data containing them may be very slow.
- [CVE-2015-9251] jQuery versions prior to v3.0.0 may be vulnerable to Cross-site Scripting attacks.
- [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 passing HTML from untrusted sources.
- Partial MAC addresses cannot be read by the SNMP MIB Browser.
- The PVID cannot be configured in VLAN Hybrid mode.
- [Nessus-85582] The web application is potentially vulnerable to Clickjacking.
- Upgraded the encryption algorithm for SSL certificate key generation.
- Enhanced the SSH cipher suite.
- Users are unable to log in via HTTPS after performing a firmware upgrade.
- [CVE-1999-0524] Answering ICMP timestamp requests might lead to remote date disclosure.
- Upgraded the encryption hash for the web login cookie from MD5 to SHA-2.
- The device may perform a cold start when the SSH algorithm mismatches.
- [CVE-2024-12297] Frontend authorization logic disclosure vulnerability.
- When repeatedly restarting a Turbo Ring Slave switch, the Turbo Ring may occasionally experience looping.
- The Management Interface and System Information pages are vulnerable to XSS.
- [CVE-2025-1680] Prevent host header injection in the web interface.
- [CVE-2002-20001] Enhanced the SSH cryptographic algorithm for improved security.
- RADIUS login authentication will fail if the username includes special characters.
- When deleting the VLAN ID associated with a trunk port in the web interface, the VLAN ID for the trunk port incorrectly shows as VLAN 0 in the CLI.
- No packets pass through the ring if the switch is configured as the Master in Turbo Ring V1.
- [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

- Changed the recommended request packet interval (RPI) setting to 1000 ms.
- SNMP is now disabled by default.
- Modbus is now disabled by default.
- Removed the PTP function.

Notes

N/A



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|-----------------------------------|------------------------|
| Version: v3.10 | Build: 24011715 |
| Release Date: Feb 06, 2024 | |

Applicable Products

EDS-G509 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Enhanced the firmware memory allocation mechanism.
- Improved the handshake mechanism for establishing port links.

Bugs Fixed

- Exporting the device configuration to an empty ABC-01 storage device would fail.

Changes

N/A

Notes

N/A



| | |
|-----------------------------------|------------------------|
| Version: v3.9 | Build: 23061806 |
| Release Date: Aug 31, 2023 | |

Applicable Products

EDS-G509 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Added support for TLS v1.3.
- Modbus TCP is now disabled by default.
- IP Forwarding is now disabled by default.
- The SNMP protocol is now disabled by default to improve security.
- Added support for additional management interfaces: HTTP, HTTPS, SSH, Telnet, SNMP, Moxa Service, and Moxa Service (Encrypted).

Bugs Fixed

- Turbo Ring v1 sometimes does not work properly.
- Accessing the LLDP table via Telnet may cause the system to reboot.
- SNMP responds slowly for MAC table queries.
- Disabling rate limiting on a port sometimes does not work properly.
- The ABC dongle sometimes behaves abnormally.
- SSH logging may cause the system to reboot.
- The device will reboot during a Nessus basic scan.
- The web banner incorrectly uses javascript instead of JAVA.
- [MSRV-2017-001][CVE-2019-6518] Plain text storage of a password.
- [MSRV-2017-003][CVE-2019-6526] Missing encryption of sensitive data.
- [MSRV-2017-004][CVE-2019-6524] Improper restriction of excessive authentication attempts.
- [MSRV-2017-005][CVE-2019-6559] Resource exhaustion
- [MSRV-2017-019] Information exposure.

Changes

- Removed the "recommended browser" message from the web interface.

Notes

N/A



| | |
|-----------------------------------|------------------------------|
| Version: v3.8 | Build: Build_17041115 |
| Release Date: May 03, 2017 | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Added warning message when default password was not changed.
- Encrypted security keys in user interface.
- Enhanced RSTP compatibility.

Bugs Fixed

- Cross-site scripting vulnerability.
- Denial of Service attack vulnerability.
- Privilege escalation vulnerability.
- SSL v2/v3 vulnerability in HTTPS.
- Web console cannot be accessed due to SNMP get bulk.
- Specific CLI command caused the switch to reboot with default settings.
- Adding a new VLAN changed the IGMP querier state from disable to enable.
- Saving configurations to ABC-01 could not be performed via IE browser.
- Rate limit could not be set in the web UI.
- Telnet hangs after SSH disabled.
- Corrected RSTP edge definition in exported configuration file.
- Corrected authorization of Radius/TACACS+ login.
- Corrected RSTP Auto-Edge behavior.
- After firmware was upgraded, the system sometimes perform a warm start when the user logs in to the switch.

Changes

N/A

Notes

N/A



| | |
|--------------------------|------------------------------|
| Version: v3.4 | Build: Build_15011418 |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

N/A

Changes

- Web user interface displayed errors under Java 8 environment.

Notes

N/A



| | |
|--------------------------|-------------------|
| Version: v3.3 | Build: N/A |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Added web interface for loop-protection enable/disable.
- Added web interface for SSH/SSL key generation.
- Added SNMP MIB for SFP DDM (Diagnostics).
- Added web interface/CLI/SNMP for NTP/SNTP client settings.

Bugs Fixed

- Login failed in CLI mode when password contained special characters.
- Hybrid VLAN lacked SNMP MIB object.
- SFP DDM (Diagnostics) displayed inaccurate values.
- IEEE 1588 PTP did not function correctly.
- Far-end fault failed on 100 M fiber port.
- Configuration import was restricted if the system name was too long.
- Login authentication failed if the radius server did not support privilege levels assignment.
- DIP switch "Coupler" On/Off malfunctioned.

Changes

N/A

Notes

N/A



| | |
|--------------------------|-------------------|
| Version: v3.1 | Build: N/A |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Passed ODVA EtherNet/IP certificate.
- Added some minor SNMP OIDs.
- Enhanced multicast performance.
- Added version number in MIB file.

Bugs Fixed

- NTP did not synchronize time in default settings.
- NTP client function did not work with Windows XP NTP server.
- Firmware upgrade failed when IEEE 802.1x was enabled.
- Switch rebooted when receiving IGMP v3 packets (commonly used in Windows 7).

Changes

N/A

Notes

None



| | |
|--------------------------|-------------------|
| Version: v3.0 | Build: N/A |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

- RSTP-2004MSTP.
- NTP Server/Client.
- SW 1588 PTPv2.
- CLI.
- Ethernet/IP.
- Hybrid VLAN.
- Radius/Tacacs+ for both login access and port authentication.
- Egress rate limit.
- Unknown unicast filtering.
- CPU loading.
- Change IP address without rebooting.
- DHCP Discover retries forever, or retries for a period of time.
- GARP timer adjustment.
- Loop-protection.
- Link Fault Shutdown.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



| | |
|--------------------------|-------------------|
| Version: v2.6 | Build: N/A |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Enhanced Turbo Chain function.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



| | |
|--------------------------|-------------------|
| Version: v2.5 | Build: N/A |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

- Supports TurboPack™ 2009 (add new functions for Turbo Chain, IPv6, Modbus/TCP, IEEE 1588 PTP, SNMP Inform, LLDP, DHCP Option 82, Firefox, and SSH).

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



| | |
|--------------------------|-------------------|
| Version: v1.1 | Build: N/A |
| Release Date: N/A | |

Applicable Products

EDS-G509

Supported Operating Systems

N/A

New Features

- New release for the EDS-G509 Series.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A