



Firmware for EDS-516A Series Release Notes

Version: v3.9	Build: 21110513
Release Date: Dec 14, 2021	

Applicable Products

EDS-516A Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Upgraded OpenSSL to 1.0.2k and added support for TLS v1.2.
- Added a memory usage protection function for certain configurations.
- Added an additional encryption option and command to the web UI and CLI.
- Added the “Set” function for standard MIB ifAdminStatus.
- Increased the number of RSTP nodes to 40.

Bugs Fixed

- When Turbo Ring V2 is working alongside Turbo Chain, and the Head Port link turns on or off, the recovery time increases to < 50 ms.
- Turbo Ring V1 does not work with RSTP Force Edge port.
- The system reboots when reading or writing SNMP OID 1.3.6.1.2.1.2.2.1.1.4294967295.
- Turbo Ring V1 does not work properly.
- Accessing LLDP via Telnet causes the device to reboot.
- The ABC-01 does not function properly.
- Some counters show incorrect negative values.
- Some counters show abnormal values after resetting.
- The LLDP configuration webpage is vulnerable to javascript injections.
- Reading speeds are slow when adding a new MAC address.
- IEEE 802.1x authentication may fail under certain conditions.
- The "copy startup-config" CLI command causes the system to restart.
- The “get bulk” SNMP command does not work properly for some OIDs.
- TACACS+ authentication would fail under certain conditions.
- OID 1.3.6.1.2.1.17.4.3.1.1 causes the “get” SNMP command to time out.
- The RSTP configuration is missing.
- Establishing an SSH connection may cause the system to reboot.
- [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-2017-006][CVE-2019-6557] Buffer overflow in endpoint.
- [MSRV-2017-007][CVE-2019-6522] Device Memory Read.
- [MSRV-2017-009][CVE-2019-6565] Multiple XSS.
- [MSRV-2017-011][CVE-2019-6561] Cross-Site Request Forgery (CSRF).
- [MSRV-2017-013] Use of a broken or risky cryptographic algorithm.
- [MSRV-2017-014] Use of hard-coded cryptographic key.
- [MSRV-2017-015] Use of hard-coded password.
- [MSRV-2017-018] Weak password requirements.



- [MSRV-2017-019] Information exposure.
- [MSRV-2017-020][CVE-2017-13703] Buffer overflow in the session ID.
- [MSRV-2017-021][CVE-2017-13702] Cookie management.
- [MSRV-2017-022][CVE-2017-13700] Cross-site scripting (XSS).
- [MSRV-2017-026] Use of a broken or unsecure cryptographic algorithm.
- [MSRV-2019-002] XSS vulnerability in the LLDP diagnostic page.
- [MSRV-2019-003] Denial of Service (web service) by improper HTTP GET command.
- [MSRV-2019-004] Denial of Service (web service) by over-sized firmware upgrade through HTTP/HTTPS.
- [MSRV-2019-005] Denial of Service (web service) by excessive length of HTTP GET command.

Changes

N/A

Notes

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



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

Applicable Products

EDS-516A-MM-SC, EDS-516A, EDS-516A-MM-SC-T, EDS-516A-T, EDS-516A-MM-ST-T, EDS-516A-MM-ST

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Add warning message when default password was not changed
- Encrypt security Keys in user interface
- Enhance 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 cause switch reboot with default settings.
- Add a new VLAN will change IGMP querier state from disable to enable.
- Saving configuration to ABC-01 cannot be performed via IE browser.
- Rate limit cannot be set in web UI.
- Telnet hangs after SSH disabled.
- Correct RSTP edge definition in exported configuration file.
- Correct authorization of Radius/TACACS+ login.
- Correct RSTP Auto-Edge behavior.
- After upgrade firmware, the system maybe warm start when the user login the switch

Changes

N/A

Notes

N/A



Version: v3.6	Build: Build_15091011
Release Date: N/A	

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Turbo Ring/Turbo Chain operated unstably after switch performed a warm start.
- Switch packet counter information error via SNMP polling or web user interface display.
- Switch failed to respond to SNMP request.
- Web user interface diagnosis > Ping page is vulnerable to XSS attack.
- Switch sometimes rebooted when using special URL to attack web user interface.
- User account privileges could be changed via Firefox browser web developer plugin.
- The switch sometimes rebooted when using special DHCP discovery packet with multicast-type source MAC address.
- The switch failed to respond to DHCP discovery packets with special client-ID option values.
- Optimized Turbo Ring network performance on platform with hardware revisions before v3.0.

Changes

N/A

Notes

N/A



Version: v3.5	Build: Build_14121010
Release Date: N/A	

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Web user interface displayed errors under Java 8 environment.

Changes

N/A

Notes

N/A



Version: v3.4	Build: N/A
Release Date: N/A	

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Potential multicast transmission was abnormal when enabling IGMP Snooping.
- 802.1x setting and rate-limiting functions did not work properly after exporting configuration files.

Changes

N/A

Notes

N/A



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

Applicable Products

EDS-516A

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 web interface/CLI/SNMP for NTP/SNTP client settings3

Bugs Fixed

- Login failed in CLI mode when password contained special characters
- Hybrid VLAN lacks SNMP MIB object
- IEEE 1588 PTP did not function correctly
- 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 malfunction

Changes

- Supports new Moxa CPU platform

Notes

N/A



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

Applicable Products

EDS-516A

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.
- Failed to upgrade firmware when IEEE 802.1x was enabled.
- Switch rebooted when receiving IGMP v3 packets (commonly used in Windows 7).

Changes

N/A

Notes

N/A



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

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

- RSTP-2004.
- MSTP.
- NTP Server/Client.
- IEEE 1588 PTP V2.
- RADIUS and TACACS+ for user login authentication.
- RADIUS for 802.1x port authentication.
- Hybrid VLAN.
- Command Line Interface.
- EtherNet/IP.
- Egress rate limit.
- Unknown unicast filtering.
- CPU loading monitoring.
- Change IP without reboot.
- DHCP Discover retry configuration.
- GARP timer adjustment.
- Loop-protection.
- Link Fault Shutdown (Disable mode in “Rate Limit” function).

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v2.6	Build: N/A
Release Date: Feb 23, 2010	

Applicable Products

EDS-516A, EDS-516A-MM-ST, EDS-516A-MM-SC, EDS-516A-MM-SC-T, EDS-516A-MM-ST-T, EDS-516A-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Enhance Turbo Chain function

Bugs Fixed

N/A

Changes

N/A

Notes

For products with firmware prior to v2.6, users must upgrade to v2.6 before upgrading to the latest v3.X firmware.



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

Applicable Products

EDS-516A

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: v2.3	Build: N/A
Release Date: N/A	

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Fixed bug of the learned multicast address from IGMP Snooping will be aged out after few minutes.

Changes

N/A

Notes

N/A



Version: v2.1	Build: N/A
Release Date: N/A	

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

- Added new Turbo Ring (“Turbo Ring V2”) function.
- Added new Ring Coupling function.
- Added Daylight Saving function.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v1.0	Build: N/A
Release Date: N/A	

Applicable Products

EDS-516A

Supported Operating Systems

N/A

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A