



## Firmware for EDS-518A Series Release Notes

<b>Version: v3.9</b>	<b>Build: 21110513</b>
<b>Release Date: Dec 14, 2021</b>	

### Applicable Products

EDS-518A 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.



<b>Version: v3.8</b>	<b>Build: Build_17041115</b>
<b>Release Date: May 03, 2017</b>	

### **Applicable Products**

EDS-518A-SS-SC-80, EDS-518A-MM-SC, EDS-518A-MM-SC-T, EDS-518A-SS-SC-T, EDS-518A-SS-SC, EDS-518A-MM-ST, EDS-518A, EDS-518A-T, EDS-518A-MM-ST-T

### **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



<b>Version: v3.6</b>	<b>Build: Build_15091010</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

EDS-518A

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

N/A

### **Bugs Fixed**

- Turbo Ring/Turbo Chain operated unstably after the switch performed a warm start.
- The 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 may reboot when using special URL to attack web user interface.
- User account privileges could be changed by Firefox browser web developer plugin.
- The switch sometimes rebooted when using special DHCP discovery packet with multicast-type source MAC address.
- Port settings on Gigabit combo ports were set to default after the system rebooted.
- The switch failed to respond to DHCP discovery packets with special client-ID option values.
- Optimized Turbo Ring network performance on platform with hardware revision before v3.0.

### **Changes**

N/A

### **Notes**

N/A



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

**Applicable Products**

EDS-518A

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

- Web user interface display errors under Java 8 environment.

**Changes**

N/A

**Notes**

N/A



<b>Version: v3.4</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**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 the configuration file.

**Changes**

N/A

**Notes**

N/A



<b>Version: v3.3</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

EDS-518A

### **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 lacks SNMP MIB object.
- SFP DDM (Diagnostics) displayed inaccurate values.
- IEEE 1588 PTP did not function correctly.
- Configuration import is restricted if the system name is too long.
- Login authentication failed if the radius server did not support privilege levels assignment.
- DIP switch “Coupler” On/Off is malfunction.

### **Changes**

- Supports new Moxa CPU platform.

### **Notes**

N/A



<b>Version: v3.1</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

EDS-518A

### **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 could not synchronize time in default settings.
- NTP client function could 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





<b>Version: v3.0</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

EDS-518A

### **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



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

### **Applicable Products**

EDS-518A-MM-ST-T, EDS-518A-MM-SC, EDS-518A-SS-SC, EDS-518A-SS-SC-T, EDS-518A-SS-SC-80, EDS-518A-T, EDS-518A-MM-SC-T, EDS-518A-MM-ST, EDS-518A

### **Supported Operating Systems**

N/A

### **New Features**

- Supports TurboPack™ 2009 (Add the new managed functions of 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**

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



<b>Version: v2.4</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

- Changed the implementation of broadcast searching and configuring across different subnets on the Utility Tool.

**Notes**

N/A



<b>Version: v2.3</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

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

**Changes**

N/A

**Notes**

N/A



<b>Version: v2.2</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

- Fixed the bug that caused 100 M fiber to not link after power cycling.

**Changes**

N/A

**Notes**

N/A



<b>Version: v2.1</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**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



<b>Version: v1.2</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**Supported Operating Systems**

N/A

**New Features**

- Added new ABC-01, Syslog, remote Cold Start functions.

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A



<b>Version: v1.1</b>	<b>Build: N/A</b>
<b>Release Date: N/A</b>	

**Applicable Products**

EDS-518A

**Supported Operating Systems**

N/A

**New Features**

- New firmware release for the EDS-518A Series.

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A