Firmware for EDS-405A Series Release Notes

<table>
<thead>
<tr>
<th>Version: v3.10</th>
<th>Build: EDS405A_V3.10_Build_19121910</th>
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<tr>
<td>Release Date: Jan 06, 2020</td>
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Applicable Products
EDS-405A Series

Supported Operating Systems
N/A

New Features
- Added support for HTTPS, SSH, and SSL.
- Added support for new Moxa commands.
- Added support for RSTP up to 40 nodes.

Enhancements
- Modified the Java applet to XML and HTML.
- Added memory protection.
- Added support for SNMP Set for standard MIB ifAdminStatus.
- Improved Turbo Ring V2 and Turbo Chain recovery times.
- [MSRV-2017-001][CVE-2019-6518] Added encrypted Moxa service with enable/disable button on GUI to support communication over encrypted commands with MXconfig/MXview.
- [MSRV-2017-002][CVE-2019-6563] Supports random salt to prevent session prediction attack of HTTP/HTTPS.
- [MSRV-2017-003, 004, 005][CVE-2019-6526, 6524, 6559] Added encrypted Moxa service with enable/disable button on GUI to support communication over encrypted commands with MXconfig/MXview.
- [MSRV-2017-017] Supports HTTPS for secure communication to avoid confidential information being transmitted through clear text.
- [MSRV-2017-021][CVE-2017-13702] Release the cookie once the session expires to avoid the old cookie value being reused.
- [MSRV-2017-022][CVE-2017-13700] Avoid XSS (Cross-site Scripting) attack by regulating the input parameters’ format.
- [MSRV-2017-023] Supports configuration backup encryption mechanism to prohibit confidential information from being disclosed.
- [MSRV-2019-002] Avoids XSS (Cross-site Scripting) attack by regulating the input parameters’ format of the LLDP diagnostic page.

Bugs Fixed
- Turbo Ring V1 does not work with RSTP force edge ports.
- SNMP would reboot the system when adding OID 1.3.6.1.2.1.2.2.1.1.4294967295.
- Turbo Ring V1 not working properly.
- The system would reboot when connecting through Telnet when LLDP is enabled and transmitting.
- Storm control would sometimes fail to disable a problematic port.
- ABC-01 not working properly.
- Unusual counter behaviour issue.
- Issue with Javascript injection.
- Slow SNMP response when reading MAC Address table (OID 1.3.6.1.2.1.17.4.3.1.1)
- 802.1x Request Identify would sometimes fail to retrieve authentication information.
- The system would reboot when entering specific CLI commands.
- TACACS authentication would fail under certain conditions.
- Slow SNMP response when pinging a client.
- Slow Turbo Chain warm/cold start recovery time.
- [MSRV-2017-003][CVE-2019-6526] Sensitive data was not encrypted.
- [MSRV-2017-009][CVE-2019-6565] No proper validation of user inputs, which allows users to perform XSS attacks.
- [MSRV-2017-011][CVE-2019-6561] CSRF attacks were possible if browser cookie parameters were not correct.
- [MSRV-2017-012][CWE-121] An attacker could exploit the improper boundary check vulnerability to perform DoS or execute arbitrary codes.
- [MSRV-2017-014][CWE-321] A hard-coded cryptographic key was used.
- [MSRV-2017-017] Confidential information can be transmitted using clear text.
- [MSRV-2017-019][CWE-200] Information was available before a user logged in.
- [MSRV-2017-020][CVE-2017-13703] The input parameter length of web cookies (session, account, password) was not checked.
- [MSRV-2017-021][CVE-2017-13702] Old cookie was reused.
- [MSRV-2017-023] Confidential information could be disclosed.
- [MSRV-2017-024][CVE-2017-13698] Public and private key can be extracted from the firmware binary.
- [MSRV-2017-025][CVE-2017-13699] Support HTTPS to protection the password encryption algorithm
- [MSRV-2017-026][CWE-327] A broken or risky cryptographic algorithm was used.
Changes
N/A

Notes
- MSRV is Moxa’s internal security vulnerability tracking ID.
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**Bugs Fixed**
- User account login authentication error in menu console mode.
- Unstable connection when using fiber links.

**Changes**
N/A
Version: v3.7 Build: Build_17031513
Release Date: N/A

Applicable Products
EDS-405A Series

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.

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.
• Added 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.
• Corrected RSTP edge definition in exported configuration file.
• Corrected authorization of Radius/TACACS+ login.
• Corrected RSTP Auto-Edge behavior.
• Web console is inaccessible after changing VLAN setting.
• Configure LLDP via MXconfig cause SNMP module hangs.
• Cannot set password via MXconfig.

Changes
N/A

Notes
N/A
Applicable Products
EDS-405A Series

Supported Operating Systems
N/A

New Features
N/A

Enhancements
N/A

Bugs Fixed
• Turbo Ring/Turbo Chain operate unstably after the switch performs a warm start.
• RSTP function was incompatible with some third party devices.
• Switch configuration export error via CLI.
• Switch packet counter information error via SNMP polling.
• 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 can be changed by Firefox browser web developer plugin.

Changes
N/A

Notes
N/A
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**Applicable Products**
EDS-405A Series

**Supported Operating Systems**
N/A

**New Features**
N/A

**Enhancements**
N/A

**Bugs Fixed**
- Web user interface display errors under Java 8 environments

**Changes**
N/A

**Notes**
N/A
**Applicable Products**
EDS-405A Series

**Supported Operating Systems**
N/A

**New Features**
N/A

**Enhancements**
N/A

**Bugs Fixed**
- Switch rebooted when port-based VLAN is enabled.
- Network looping when IPv6 based computer connects to Turbo Ring or Turbo Chain network.
- Traffic rate limiting setting errors when switching between Normal mode and Port Disable mode.
- IGMP snooping operated incorrectly when IGMP control messages were not with PVID 1.
- Static multicast setting errors when changing VLAN settings.
- Configuration import/export errors in CLI mode.

**Changes**
N/A

**Notes**
N/A
Supported Operating Systems
EDS-405A Series

New Features
N/A

Enhancements
• Added a web interface for loop protection enable/disable.
• Added a web interface for SSH/SSL key generation.
• Added SNMP MIB for SFP DDM (Diagnostics).

Bugs Fixed
• Log in failed in the CLI mode when the password contained a special character.
• Hybrid VLAN lacked the SNMP MIB object.
• SFP DDM (Diagnostics) displayed inaccurate values.
• IEEE 1588 PTP did not function correctly.

Changes
N/A

Notes
N/A
Applicable Products
EDS-405A Series

Supported Operating Systems
N/A

New Features
• Users can disable “Utility Search”, “Telnet Console”, “SSH Console”, “HTTP Console”, and “HTTPS Console”, or change the service ports of the above consoles.
• Supports up to 10 user-defined login accounts for consoles.

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

Bugs Fixed
• NTP cannot synchronize time in default setting.
• NTP client function cannot work with Windows XP NTP server.
• Firmware upgrade failed when IEEE 802.1x was enabled.
• Switch reboots when receiving IGMP v3 packets (commonly used in Windows 7).

Changes
N/A

Notes
N/A
Applicable Products
EDS-405A Series

Supported Operating Systems
N/A

New Features
- NTP Server/Client.
- 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
- IGMP snooping chip issue problem.

Changes
- Changed default password to "moxa".

Notes
N/A
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**Applicable Products**
EDS-405A Series

**Supported Operating Systems**
N/A

**New Features**
- Added IGMP Snooping function.
- Added IEEE 802.1Q VLAN function.

**Enhancements**
N/A

**Bugs Fixed**
N/A

**Changes**
N/A

**Notes**
N/A
Applicable Products

Supported Operating Systems
N/A

New Features
• 1. 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)
• Add new Turbo Ring (Turbo Ring V2) Function
• Add new Ring Coupling Function
• Add Daylight Saving Function

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.
Version: v1.3
Build: N/A
Release Date: N/A

**Applicable Products**
EDS-405A Series

**Supported Operating Systems**
N/A

**New Features**
- Added Syslog function.
- Added Restart function.
- ABC-01 supported.
- Change default settings of Flow Control from Enabled to Disabled.

**Enhancements**
N/A

**Bugs Fixed**
N/A

**Changes**
N/A

**Notes**
N/A
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**Applicable Products**
EDS-405A Series

**Supported Operating Systems**
N/A

**New Features**
- First release for EDS-405A Series.

**Enhancements**
N/A

**Bugs Fixed**
N/A

**Changes**
N/A

**Notes**
N/A