Firmware for EDS-510E Series Release Notes

Version: v5.4	Build: 21042021
Release Date: Apr 26, 2021	

Applicable Products

EDS-510E Series

Supported Operating Systems

N/A

New Features

• Supports Interface Tracking, Ping Tracking, and Logic Tracking.

Enhancements

• The CPU utilization now displays a percentage instead of "Normal" and "Busy".
• Firmware upgrade processing status is displayed.
• Email addresses can contain up to 39 characters.
• Email Mail Servers can contain up to 39 characters.
• Enhanced SSH with secure key exchange algorithm, Diffie-Hellman Group 14.
• Improved random distribution of TCP Initial Sequence Number (ISN) values.
• 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.
• The device would restart due to memory leak during the Nmap (a freeware that can scan the available ports) scanning test.
• RSTP Port Status error with Modbus TCP.
• Trunk port was not shown correctly in the LLDP table.
• The head switch of Turbo Chain was blocked when connecting to a Cisco switch.
• SNMP v3 memory leak.
• 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.
• 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 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 into 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.
• Switch automatically performed a cold start when receiving specific SNMPv3 packets.
• [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.
• [CRM #210115312454] Trap Server Host Name cannot be set via web GUI.
• [CRM #201019305310] Incorrect SNMPV3 msgAuthoritativeEngineBoots behavior that the value will not count up after switch reboot.
• [CRM #200702298391] The relay trigger function by port traffic overload does not work.

Changes

• The IEEE 802.1x traffic enablement method has changed from MAC-based to port-based.
• The length of the 802.1x username is increased from 32 bytes to 64 bytes.

Notes

• MSRV is Moxa's internal security vulnerability tracking ID.
• It is not possible to upgrade to firmware v5.4 directly from v4.1 or older.

Version: v5.3	Build: FWR_EDS510E_V5.
Release Date: Jan 15, 2020	

Applicable Products

EDS-510E Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• [MSRV-2017-011][CVE-2019-6561] Supports browser cookie parameters “same-site” to eliminate CSRF attacks.

Bugs Fixed

• Login issue with Chrome v65.
• Loop prevention did not work when RSTP was enabled.
• GVRP did not work.
• [MSRV-2017-006][CVE-2019-6557] Buffer overflow vulnerabilities that may have allowed 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: v5.2	Build: Build_17021616
Release Date: Mar 30, 2017	

Applicable Products

EDS-510E Series

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.
• 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).
• (Redundancy) Layer2 V-On support.

Enhancements

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

Bugs Fixed

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

Changes

N/A

Notes

N/A

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

Applicable Products

EDS-510E Series

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: v4.0	Build: Build_15062316
Release Date: N/A	

Applicable Products

EDS-510E Series

Supported Operating Systems

N/A

New Features

• New release for the EDS-510E-3GTXSFP Series.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A