Firmware for EDR-G902 Series Release Notes

Version: v5.6	Build: 20092213
Release Date: Oct 14, 2020	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Updated security for IPV-200502.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: v5.5	Build: Build_20050423
Release Date: May 27, 2020	

Applicable Products

EDR-G902-T, EDR-G902

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

Malicious operation of the crafted web browser cookie may cause stack buffer overflow to the system web server of the EDR-G900 Series.

Changes

N/A

Notes

N/A

Version: v5.4	Build: Build_19122012
Release Date: Dec 20, 2019	

Applicable Products

EDR-G902, EDR-G902-T

Supported Operating Systems

N/A

New Features

• The TCP SACK panic attack Linux Kernel Vulnerabilities (CVE-2019-11477, CVE-2019-11478 & CVE-2019-11479) were fixed.

Enhancements

N/A

Bugs Fixed

• The port link-on and link-off activity caused the static routing rules to disappear.
• When the local time configuration was changed it sometimes failed to save in the system.

Changes

N/A

Notes

N/A

Version: v5.3	Build: 19090200
Release Date: Sep 12, 2019	

Applicable Products

EDR-G902 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Modbus policy enforcement was enhanced.
• The syslog agent was upgraded to improve memory usage and implement memory usage monitoring for syslog agent with event log.
• Prevented command injection of remote TFTP service.

Bugs Fixed

• After the EDR-G900 Series was rebooted, the VRRP function did not work properly.
• When "ARP-Flood" protection was enabled, the layer 2 policy of the firewall settings did not work properly.
• Authentication of web console through the Radius server did not work properly.
• The layer 3 policy of the firewall settings did not inspect the IP address with the rule that included both the source IP and source MAC filtering.
• There was an incorrect prompt message after the maximum amount of login sessions in the command line interface were configured.
• The "show ip http-server" command received an incorrect prompt message regarding the maximum amount of login sessions.
• The layer 3 policy of the firewall settings did not have the configurations exported correctly with the rule that included both source IP and source MAC filtering.
• There was a risk that the device would fail to reboot after the firmware was upgraded.

Changes

N/A

Notes

N/A

Version: v5.0	Build: N/A
Release Date: Feb 01, 2019	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: 4.2	Build: N/A
Release Date: Apr 18, 2018	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

• Support for virtual MAC on VLAN interfaces
• Add independent names of NAT rules and Firewall rules
• Support "Source IP-MAC Binding" in layer 3 policy for IP spoofing protection
• Link Fault Pass-Throughput for copper ports and fiber ports
• Add "Ping Track" and user-defined "Preempt Delay" for VRRP
• Support user-defined MTU size
• Add MPPE for PPTP

Enhancements

• Hash algorithm SHA-256 in OpenVPN
• AES for SNMP v3
• Individual PSK for multiple "Site-to-Any" IPsec rules
• Remove weak algorithms and only keep highly secured algorithms for SSH: Ciphers aes128-ctr, aes192-ctr, aes256-ctr, MACs hmac-ripemd160, hmac-sha2-256, hmac-sha2-512
• Fix potential risk of "Web Application Vulnerable to Clickjacking"
• Support option to "Keep Certificate Management and Authentication Certificate" when resetting router to factory default
• Support user-defined interfaces for N-1 and port-forward NAT
• VPN support certificate using SHA-256 hash algorithm
• SSL certificate security level with 2048 bit key length with SHA-256 hash algorithm
• SHA-256 hash algorithm for encryption of login account and password in Web browser cookie

Bugs Fixed

• EDR-G900 compatibility issue with CISCO ACS Radius Server
• Modbus filtering cannot filter "Modbus address range" correctly
• VRRP status in CLI and MIB file are incorrect
• Firewall log displays incorrect source MAC address (00:00:00:00:00:00) in bridge mode
• Fail to import configuration of "Syslog Server"
• Incorrect display of login banner in web console
• Frame Padding is not cleared
• Cannot use special character "$" as login password
• SSH server cannot work after being reset to factory default
• L2TP over IPsec configuration cannot be imported correctly
• IPsec connection table displays incorrect information
• IPsec status does not show phase 1 and 2 established when L2TP client is connected
• Users cannot clear SMTP email settings from web console
• IPsec DPD detection fails
• Add city of the time zone settings for CLI commands
• Support multiple local subnets and remote subnets for one IPsec tunnel
• Cannot remove the last OpenVPN client account
• CA server sometimes generates incorrect certificate
• When login as "user", some EDR-G900 settings can still be changed
• Web console (HTTP) cannot work after changing "Router Name"

- Fix system log mechanism for better memory usage
- SNMP V3 cannot work after importing configurations back in
- "OpenVPN Server to user configuration" works incorrectly when the router's WAN interface is not a static IP
- OpenVPN configuration exporting has a problem the next time it imports
- Switching options between "TUN" mode and "TAP" mode causes OpenVPN to function abnormally
- Cannot display multiple subnet settings in CLI
- Cannot login to the web console after importing configurations via MXconfig
- User cannot use dash "-" character in the name of static route rules in web GUI
- NTP client does not sync time with NTP server correctly when the time gap is too large
- Cannot change router from "WAN2 Connect Mode" to "WAN2 Backup Mode"

Changes

Changes:
- Change default privilege of SNMP "public" community to read only
- Support MIB query of Virtual MAC for VLAN interfaces
- "Ping" function follows the routing table to the next hop and "Ping Interface" option was removed
- The default session limit of "SSH" and "Telnet" changes to 5 concurrent sessions
- Remove "Auto Routing" from "Outside Interface" options in N-1 NAT settings

Notes

N/A

Version: v4.1	Build: Build_17031311
Release Date: Mar 21, 2017	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

- IEC 62443-4-2 level 2 compliant.
- Supports ifAdminStatus MIB information as device's port setting.
- Supports 1-1 NAT redundancy of the two routers by VRRP binding.
- Supports Radius CHAP authentication.
- Integration of the certificate database for IPsec, OpenVPN, and X.509.
- Improved PPPoE performance.
- Supports special characters, "0-9 a-z A-Z _@!#$%^&*().-", as part of the account password.
- Unlock the limitation of the configuration import between standard temperature and wide temperature models.

Enhancements

N/A

Bugs Fixed

- Link-on and link-off operations of WAN port cause static route policy to disappear.
- No encryption of the password-type information in the exported configuration file.
- Web content did not display correctly in some browsers.
- Removed unused residual web pages from the system.
- "User" privilege is allowed to export configuration files.
- Time zone setting has a problem.
- Fixed SNMP OID "ifAdminStatus" status.
- "Cold start" event was sometimes not recorded in the system log.
- Changed the default settings of preemption delay from 5 seconds to 120 seconds to enhance the stability of VRRP.
- Incorrect display of device IP address in MXview when 1:1 NAT function of the router was enabled.
- Failed to access EDR's service through IPsec tunnel when port forwarding (same as EDR's service port) NAT is enabled.

Changes

N/A

Notes

N/A

Version: v3.6	Build: Build_16081017
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Optimized PPPoE performance.

Bugs Fixed

• L2TP account configuration disappeared after upgrading to v3.5.
• Password configuration mismatch after upgrading to v3.5.
• After upgrading to v3.5, users cannot log in to EDR products via web console when the password contains special characters.
• Users cannot login into EDR products via serial console and telnet console when the password contains special characters.
• Cannot downgrade to old versions (before v3.5) from firmware v3.5.
• LLDP interpretation with CISCO devices.

Changes

N/A

Notes

N/A

Version: v3.5	Build: Build_16060718
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• Supports OpenVPN as client or server.
• Supports text-based configuration file and configuration file encryption.
• Supports OSPF routing protocol.
• Supports MXstudio V2.4.
• Supports multiple L2TP clients.
• Supports multiple login user account.
• Supports user-defined login message on the web console.
• Supports IPsec X.509 with certificate issued by authorized CA.
• Supports CSR (Certificate Signing Request).
• Supports monitoring IPsec tunnel uptime.
• Supports bi-directional 1-1 NAT for local devices that do not have gateway settings.
• Supports configurable port speed.
• Supports VPN, firewall, DOS, and system security events stored in local storage or sent to SNMP trap server, and Syslog server.

Enhancements

N/A

Bugs Fixed

• Daylight saving time configuration issue.
• "Base 1" setting did not work in Modbus filtering function.

Changes

• Changed the command line interface from "EDR-G903>>" to "EDR-G903#".

Notes

N/A

Version: v3.4	Build: Build_15081713
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Separated PPTP and L2TP user account management.
• Extended maximum NAT rules to 350 on EDR-G903 Series.
• Changed DPD configuration from "Hold" to "Restart" in default IPsec settings.

Bugs Fixed

• System memory management was improved to solve system lockup problem by SDK upgrade.
• Improved several VRRP operational behaviors.
• During routing, the router occasionally dropped a few packets.
• When there are broadcast packets coming into the system continuously during link-up and link-down phase, traffic is possible to be blocked by MAC at 10 Mbps speed.
• When the WAN interface is down, router still send out RIP update for other VLAN interfaces which are bind on WAN.
• Simultaneously using "PING" from different consoles caused incorrect "PING Reply" result.

Changes

• Changed the default settings of DHCP server from enabled to disabled.

Notes

N/A

Version: v3.3	Build: Build_15020316
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Supports 10 Mbps speed configuration by CLI.

Bugs Fixed

• Repeated plugging the Ethernet cable in and out caused the NAT function to stop working.
• System stopped working after a long-term running with a large amount of traffic.

Changes

N/A

Notes

N/A

Version: v3.2	Build: N/A
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• Add "User Interface Management" to enable/disable http, https, telnet, SSH, and Moxa utility.

Enhancements

• Changed default interface to "Auto" in NAT configuration after factory default.
• Changed behavior of Modbus TCP filtering to "stateless firewall" mode.

Bugs Fixed

• "Packet Monitoring" did not display correctly with the latest JAVA version in the web console.
• "Drop Multiple Commands" in Modbus filtering did not work properly.
• Address configuration of Modbus filtering did not work properly when inputting 5-digit addresses.
• Cannot set NTP/SNTP time server correctly.

Changes

N/A

Notes

N/A

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

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• Allow to configure TCP ports of user management interfaces (HTTP/HTTPS/Telnet/SSH).

Enhancements

• Changed default setting of NAT interface to "Auto".
• Incorrect display in the configuration items of Modbus TCP filtering.
• Changed behavior of Modbus TCP filtering to stateless mode
• Enlarged maximum firewall rules to 512 (EDR-G903) and 256 (EDR-G902).
• Enlarged maximum NAT rules up to 256 (EDR-G903) and 128 (EDR-G902).

Bugs Fixed

• Display error in the monitoring page of "Packet Monitoring".
• Failed to enable "Drop Multiple Function" in configuration of Modbus Policy.

Changes

N/A

Notes

N/A

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

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• Deep Packet Inspection for Modbus TCP.
• Supports 5 VLANs per interface for NAT, Firewall Policy, RIP, and VRRP.
• Upgraded EDR-G903's maximum VPN tunnels to 100 (Max. 30 of 100 for start-in-initial mode).
• Upgraded EDR-G902's maximum VPN tunnels to 50 (Max. 15 of 100 for Start-in-initial mode).
• "Auto" mode in N-1 NAT Settings for routing packets to NAT or VPN.
• CLI of IPsec settings.
• Factory default login password changes from empty to "moxa" for higher security.

Enhancements

• Changed the default gateway to PPTP interface when it is established.
• In 1-1 NAT mode, the router can automatically choose the outgoing interface according to the routing table. (In the previous versions, the outgoing interface is assigned by users.)

Bugs Fixed

• Incorrect PWR1 and PWR2 LED displayed in the information bar of the web console.
• Cannot establish a VPN connection when setting "Encryption Algorithm" to "DES" in IPsec settings.

Changes

N/A

Notes

N/A

Version: v2.12	Build: N/A
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• Cannot save configurations after power cycle.

Changes

N/A

Notes

N/A

Version: v2.11	Build: N/A
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Removed undocumented account.
• Replaced hard-coded SSH/SSL key by dynamic-generated key.
• Supports special characters for login password.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: v2.2	Build: N/A
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• Bug Fix: Under IE7 browser, some pages in web UI cannot display all functions
• Bug Fix: After system reboot, EDR-G903 may not establish VPN tunnel automatically

Changes

N/A

Notes

N/A

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

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• Supports Broadcast Search by Moxa Ethernet switch utility (EDScfgui.exe) in Bridge mode.
• Supports Firmware Upgrade by Moxa Ethernet switch utility (EDScfgui.exe).

Enhancements

N/A

Bugs Fixed

• When using Chrome, the EDR-G903 checks against the user account password when logging in as Admin.
• After the EDR-G903 has been switched from router mode to bridge mode, NAT, Firewall, QoS policy, and LAN IP address settings for router mode are accessible prior to a restart.
• Firewall or QoS policy failed to clear when all the rules are deselected and cleared in one application. Previously, the policies would only all clear correctly after a restart or another policy change if all rules were cleared in one application.
• The same VPN local subnet settings cause EDR-G903 only pass packets through the first VPN tunnel to remote sites
• In bridge mode, the assigned interface will be invalid when configuring a layer 2 filtering policy.
• The 1-to-1 NAT rule will be invalid when it is assigned an interface.
• LLDP table is not empty when disabling LLDP.
• EDR-G903 ping fail from web console to LAN devices.
• EDR-G903 web page shows WAN IP 0.0.0.0 for WAN1 when using PPPoE connection.
• EDR-G903 ping fail from web console through PPPoE after rebooting.
• Must disable "Accessible IP" when using VPN tunnel or L2TP connection.
• After disabling "VPN Global Setting", EDR-G903 cannot reactivate it again after rebooting.
• DHCP Server does not disable after EDR-G903 has been switched from router mode to bridge mode.
• Packets will only go through NAT rule if the local subnets of VPN tunnels and NAT rules are overlapped.

Changes

N/A

Notes

N/A

Version: v2.0	Build: N/A
Release Date: N/A	

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• Added IPsec, L2TP VPN function.
• Added RIP function.
• Added Bridge mode Firewall.
• Added SNMP Private MIB.

Enhancements

N/A

Bugs Fixed

• Login password check failed by Google Chrome browser.
• NAT or LAN IP did not clear when user changed Network mode from Router mode to Bridge mode.

Changes

N/A

Notes

N/A

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

Applicable Products

EDR-G903

Supported Operating Systems

N/A

New Features

• First release for EDR-G903 series.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A