

Software Name: Software Package for EDR-G903 Series (MIB file)

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
5.0	N/A	N/A	N/A	New Features: N/A Enhancements: N/A	Bugs Fixed: N/A Changes: N/A	N/A

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4.2	N/A	N/A	N/A	<p>New Features:</p> <ol style="list-style-type: none"> 1. Support for virtual MAC on VLAN interfaces 2. Add independent names of NAT rules and Firewall rules 3. Support "Source IP-MAC Binding" in layer 3 policy for IP spoofing protection 4. Link Fault Pass-Throughput for copper ports and fiber ports 5. Add "Ping Track" and user-defined "Preempt Delay" for VRRP 6. Support user-defined MTU size 7. Add MPPE for PPTP <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Hash algorithm SHA-256 in OpenVPN 2. AES for SNMP v3 3. Individual PSK for multiple "Site-to-Any" IPsec rules 4. 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 5. Fix potential risk of "Web Application Vulnerable to Clickjacking" 6. Support option to "Keep Certificate Management and Authentication Certificate" when resetting router to factory default 7. Support user-defined interfaces for N-1 and port-forward NAT 8. VPN support certificate using SHA-256 hash algorithm 9. SSL certificate security level with 2048 bit key length with SHA-256 hash algorithm 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. EDR-G900 compatibility issue with CISCO ACS Radius Server 2. Modbus filtering cannot filter "Modbus address range" correctly 3. VRRP status in CLI and MIB file are incorrect 4. Firewall log displays incorrect source MAC address (00:00:00:00:00:00) in bridge mode 5. Fail to import configuration of "Syslog Server" 6. Incorrect display of login banner in web console 7. Frame Padding is not cleared 8. Cannot use special character "\$" as login password 9. SSH server cannot work after being reset to factory default 10. L2TP over IPsec configuration cannot be imported correctly 11. IPsec connection table displays incorrect information 12. IPsec status does not show phase 1 and 2 established when L2TP client is connected 13. Users cannot clear SMTP email settings from web console 14. IPsec DPD detection fails 15. Add city of the time zone settings for CLI commands 16. Support multiple local subnets and remote subnets for one IPsec tunnel 17. Cannot remove the last OpenVPN client account 18. CA server sometimes generates incorrect certificate 19. When login as "user", some EDR-G900 settings can still be changed 20. Web console (HTTP) cannot work after changing "Router Name" 21. Fix system log mechanism for better memory usage 22. SNMP V3 cannot work after importing configurations back in 23. "OpenVPN Server to user configuration" works incorrectly when the router's WAN interface is not a static IP 24. OpenVPN configuration exporting has a problem the next time it imports 	N/A

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				<p>10. SHA-256 hash algorithm for encryption of login account and password in Web browser cookie</p>	<p>25. Switching options between "TUN" mode and "TAP" mode causes OpenVPN to function abnormally 26. Cannot display multiple subnet settings in CLI 27. Cannot login to the web console after importing configurations via MXconfig 28. User cannot use dash "-" character in the name of static route rules in web GUI 29. NTP client does not sync time with NTP server correctly when the time gap is too large 30. Cannot change router from "WAN2 Connect Mode" to "WAN2 Backup Mode"</p> <p>Changes:</p> <p>Changes:</p> <ol style="list-style-type: none"> 1. Change default privilege of SNMP "public" community to read only 2. Support MIB query of Virtual MAC for VLAN interfaces 3. "Ping" function follows the routing table to the next hop and "Ping Interface" option was removed 4. The default session limit of "SSH" and "Telnet" changes to 5 concurrent sessions 5. Remove "Auto Routing" from "Outside Interface" options in N-1 NAT settings 	

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v4.1	Build_17031311	N/A	EDR-G903	<p>New Features:</p> <ol style="list-style-type: none"> 1. IEC 62443-4-2 level 2 compliant. 2. Supports ifAdminStatus MIB information as device's port setting. 3. Supports 1-1 NAT redundancy of the two routers by VRRP binding. 4. Supports Radius CHAP authentication. 5. Integration of the certificate database for IPsec, OpenVPN, and X.509. 6. Improved PPPoE performance. 7. Supports special characters, "0-9 a-z A-Z _@!#\$%^&*()-.", as part of the account password. 8. Unlock the limitation of the configuration import between standard temperature and wide temperature models. <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Link-on and link-off operations of WAN port cause static route policy to disappear. 2. No encryption of the password-type information in the exported configuration file. 3. Web content did not display correctly in some browsers. 4. Removed unused residual web pages from the system. 5. "User" privilege is allowed to export configuration files. 6. Time zone setting has a problem. 7. Fixed SNMP OID "ifAdminStatus" status. 8. "Cold start" event was sometimes not recorded in the system log. 9. Changed the default settings of preemption delay from 5 seconds to 120 seconds to enhance the stability of VRRP. 10. Incorrect display of device IP address in MXview when 1:1 NAT function of the router was enabled. 11. Failed to access EDR's service through IPsec tunnel when port forwarding (same as EDR's service port) NAT is enabled. <p>Changes:</p> <p>N/A</p>	N/A

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v3.6	Build_16081017	N/A	EDR-G903	<p>New Features: N/A</p> <p>Enhancements: 1. Optimized PPPoE performance.</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. L2TP account configuration disappeared after upgrading to v3.5. 2. Password configuration mismatch after upgrading to v3.5. 3. After upgrading to v3.5, users cannot log in to EDR products via web console when the password contains special characters. 4. Users cannot login into EDR products via serial console and telnet console when the password contains special characters. 5. Cannot downgrade to old versions (before v3.5) from firmware v3.5. 6. LLDP interpretation with CISCO devices. <p>Changes: N/A</p>	N/A

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v3.5	Build_16060718	N/A	EDR-G903	<p>New Features:</p> <ol style="list-style-type: none"> 1. Supports OpenVPN as client or server. 2. Supports text-based configuration file and configuration file encryption. 3. Supports OSPF routing protocol. 4. Supports MXstudio V2.4. 5. Supports multiple L2TP clients. 6. Supports multiple login user account. 7. Supports user-defined login message on the web console. 8. Supports IPsec X.509 with certificate issued by authorized CA. 9. Supports CSR (Certificate Signing Request). 10. Supports monitoring IPsec tunnel uptime. 11. Supports bi-directional 1-1 NAT for local devices that do not have gateway settings. 12. Supports configurable port speed. 13. Supports VPN, firewall, DOS, and system security events stored in local storage or sent to SNMP trap server, and Syslog server. <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Daylight saving time configuration issue. 2. "Base 1" setting did not work in Modbus filtering function. <p>Changes:</p> <ol style="list-style-type: none"> 1. Changed the command line interface from "EDR-G903>>" to "EDR-G903#". 	N/A

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v3.4	Build_15081713	N/A	EDR-G903	<p>New Features: N/A</p> <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Separated PPTP and L2TP user account management. 2. Extended maximum NAT rules to 350 on EDR-G903 Series. 3. Changed DPD configuration from "Hold" to "Restart" in default IPsec settings. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. System memory management was improved to solve system lockup problem by SDK upgrade. 2. Improved several VRRP operational behaviors. 3. During routing, the router occasionally dropped a few packets. 4. 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. 5. When the WAN interface is down, router still send out RIP update for other VLAN interfaces which are bind on WAN. 6. Simultaneously using "PING" from different consoles caused incorrect "PING Reply" result. <p>Changes:</p> <ol style="list-style-type: none"> 1. Changed the default settings of DHCP server from enabled to disabled. 	N/A
v3.3	Build_15020316	N/A	EDR-G903	<p>New Features: N/A</p> <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Supports 10 Mbps speed configuration by CLI. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Repeated plugging the Ethernet cable in and out caused the NAT function to stop working. 2. System stopped working after a long-term running with a large amount of traffic. <p>Changes: N/A</p>	N/A
v3.2	N/A	N/A	EDR-G903	<p>New Features:</p> <ol style="list-style-type: none"> 1. Add "User Interface Management" to enable/disable http, https, telnet, SSH, and Moxa utility. <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Changed default interface to "Auto" in NAT configuration after factory default. 2. Changed behavior of Modbus TCP filtering to "stateless firewall" mode. 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. "Packet Monitoring" did not display correctly with the latest JAVA version in the web console. 2. "Drop Multiple Commands" in Modbus filtering did not work properly. 3. Address configuration of Modbus filtering did not work properly when inputting 5-digit addresses. 4. Cannot set NTP/SNTP time server correctly. <p>Changes: N/A</p>	N/A

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v3.1	N/A	N/A	EDR-G903	<p>New Features:</p> <ol style="list-style-type: none"> 1. Allow to configure TCP ports of user management interfaces (HTTP/HTTPS/Telnet/SSH). <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Changed default setting of NAT interface to "Auto". 2. Incorrect display in the configuration items of Modbus TCP filtering. 3. Changed behavior of Modbus TCP filtering to stateless mode 4. Enlarged maximum firewall rules to 512 (EDR-G903) and 256 (EDR-G902). 5. Enlarged maximum NAT rules up to 256 (EDR-G903) and 128 (EDR-G902). 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Display error in the monitoring page of "Packet Monitoring". 2. Failed to enable "Drop Multiple Function" in configuration of Modbus Policy. <p>Changes:</p> <p>N/A</p>	N/A

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v3.0	N/A	N/A	EDR-G903	<p>New Features:</p> <ol style="list-style-type: none"> 1. Deep Packet Inspection for Modbus TCP. 2. Supports 5 VLANs per interface for NAT, Firewall Policy, RIP, and VRRP. 3. Upgraded EDR-G903's maximum VPN tunnels to 100 (Max. 30 of 100 for start-in-initial mode). 4. Upgraded EDR-G902's maximum VPN tunnels to 50 (Max. 15 of 100 for Start-in-initial mode). 5. "Auto" mode in N-1 NAT Settings for routing packets to NAT or VPN. 6. CLI of IPsec settings. 7. Factory default login password changes from empty to "moxa" for higher security. <p>Enhancements:</p> <ol style="list-style-type: none"> 1. Changed the default gateway to PPTP interface when it is established. 2. 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.) 	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Incorrect PWR1 and PWR2 LED displayed in the information bar of the web console. 2. Cannot establish a VPN connection when setting "Encryption Algorithm" to "DES" in IPsec settings. <p>Changes:</p> <p>N/A</p>	N/A
v2.12	N/A	N/A	EDR-G903	<p>New Features:</p> <p>N/A</p> <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. Cannot save configurations after power cycle. <p>Changes:</p> <p>N/A</p>	N/A

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v2.11	N/A	N/A	EDR-G903	<p>New Features: N/A</p> <p>Enhancements: 1. Removed undocumented account. 2. Replaced hard-coded SSH/SSL key by dynamic-generated key. 3. Supports special characters for login password.</p>	<p>Bugs Fixed: N/A</p> <p>Changes: N/A</p>	N/A
v2.2	N/A	N/A	EDR-G903	<p>New Features: N/A</p> <p>Enhancements: N/A</p>	<p>Bugs Fixed: 1. Bug Fix: Under IE7 browser, some pages in web UI cannot display all functions 2. Bug Fix: After system reboot, EDR-G903 may not establish VPN tunnel automatically</p> <p>Changes: N/A</p>	N/A

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v2.1	N/A	N/A	EDR-G903	<p>New Features:</p> <ol style="list-style-type: none"> 1. Supports Broadcast Search by Moxa Ethernet switch utility (EDScfgui.exe) in Bridge mode. 2. Supports Firmware Upgrade by Moxa Ethernet switch utility (EDScfgui.exe). <p>Enhancements:</p> <p>N/A</p>	<p>Bugs Fixed:</p> <ol style="list-style-type: none"> 1. When using Chrome, the EDR-G903 checks against the user account password when logging in as Admin. 2. 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. 3. 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. 4. The same VPN local subnet settings cause EDR-G903 only pass packets through the first VPN tunnel to remote sites 5. In bridge mode, the assigned interface will be invalid when configuring a layer 2 filtering policy. 6. The 1-to-1 NAT rule will be invalid when it is assigned an interface. 7. LLDP table is not empty when disabling LLDP. 8. EDR-G903 ping fail from web console to LAN devices. 9. EDR-G903 web page shows WAN IP 0.0.0.0 for WAN1 when using PPPoE connection. 10. EDR-G903 ping fail from web console through PPPoE after rebooting. 11. Must disable "Accessible IP" when using VPN tunnel or L2TP connection. 12. After disabling "VPN Global Setting", EDR-G903 cannot reactivate it again after rebooting. 13. DHCP Server does not disable after EDR-G903 has been switched from router mode to bridge mode. 14. Packets will only go through NAT rule if the local subnets of VPN tunnels and NAT rules are overlapped. <p>Changes:</p> <p>N/A</p>	N/A

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v2.0	N/A	N/A	EDR-G903	New Features: 1. Added IPsec, L2TP VPN function. 2. Added RIP function. 3. Added Bridge mode Firewall. 4. Added SNMP Private MIB. Enhancements: N/A	Bugs Fixed: 1. Login password check failed by Google Chrome browser. 2. NAT or LAN IP did not clear when user changed Network mode from Router mode to Bridge mode. Changes: N/A	N/A
v1.0	N/A	N/A	EDR-G903	New Features: 1. First release for EDR-G903 series. Enhancements: N/A	Bugs Fixed: N/A Changes: N/A	N/A