Firmware for OnCell G4302-LTE4 Series Release Notes

Version: v3.18.0	Build: 25062612
Release Date: Aug 04, 2025	

Applicable Products

OnCell G4302-LTE4 Series

Supported Operating Systems

N/A

New Features

• Added Traceroute CLI command.
• Introduced multi-language support for MX-ROS, including Traditional/Simplified Chinese, Korean, and Japanese.
• Added GRE interface on Network Interface.
• Added OSPF support to Routing.
• Added serial interface support for integration with ITS SCATS systems.
• Added support for MRC Quick Link Ultra v4.1.0.
• Added support for displaying the cellular carrier in MRC Quick Link Ultra.
• Added support for MRC-related logs in the system log.

Enhancements

• Added support for "Route Mode" in IPsec Startup Mode. In Route Mode, the VPN tunnel initiates only when routing packets are generated, relying on traffic to trigger the tunnel.
• Added support for CLI commands to configure MXsecurity port settings.
• The "Ping Response" function has been moved from the "User Interface" (MX-ROS v3.12.1 to v3.13) and "Trusted Access" (MX-ROS v3.6) pages to the dedicated "Ping Response" page.
• Added IP display on the Querier Connected Port in the IGMP Snooping Group Table.
• Added Passive Mode to OSPF.
• Added Object types: Secure FTP and SYSLOG (TCP 514) to Object Management.
• Added trap and syslog support for IPS/DPI/ADP to Advanced Protection - Configuration.
• Optimized IPsec reconnection time.
• Reduced the data usage of the MRC service when monitoring the status of devices.

Bugs Fixed

• When exporting the configuration, the Object IP Range setting is saved incorrectly, causing importing the configuration to fail.
• MXview 1.4.1 does not receive encrypted SNMPv3 Trap/Inform packets from the routers.
• ARP Reply packets are being unintentionally dropped in Bridge mode.
• Email Settings cannot be disabled.
• After changing the Management VLAN, the router is unreachable when pinged.
• When configuring Bridge members, the system unintentionally creates two untagged VLANs under the access port.
• Multicast traffic is not filtered correctly, causing forwarding to ports that have not joined the IGMP group.
• IPsec Startup Mode - Initiate Automatically does not function properly.
• CVE-2024-9138, CVE-2024-9140 vulnerability issue(s). For more details, search the Security Advisories section on the Moxa website for the following Security Advisory ID: MPSA-241155.
• CVE-2025-0415 vulnerability issue(s). For more details, search the Security Advisories section on the Moxa website for the following Security Advisory ID: MPSA-259491.
• CVE-2025-0676 vulnerability issue(s). For more details, search the Security Advisories section on

the Moxa website for the following Security Advisory ID: MPSA-251431.

Changes

• Supervisor and user accounts are no longer created by default, and must be added manually. Existing accounts are not affected.
• In compliance with the EU Radio Equipment Directive (RED), users must change the password on first login.

Notes

• Due to an issue, using an identical pre-shared key to set up multiple site-to-any IPsec VPN tunnels with IKEv1 mode requires a workaround. Please contact Moxa Technical Support for assistance.
• Using an MRC Gateway key with a different gateway model may cause connection issues with the MRC service.

Version: v3.13.0	Build: 24100800
Release Date: Oct 08, 2024	

Applicable Products

OnCell G4302-LTE4 Series

Supported Operating Systems

N/A

New Features

• Added support for the Loopback Interface function.
• Added support for event-triggered actions to the VRRP function.
• Added support for UDP-Flood to the DoS Policy function.
• Added SNMP Trap as a Log Destination for the Layer 2 Policy function.
• Added support for additional event log export formats: .pdf, .csv.
• Added a CPU usage threshold alarm to the Event Notifications function.
• Added a port usage threshold alarm to the Event Notifications function.
• Added support for Step7 Comm+, OPC UA, and MELSEC to the Advanced Protection function.

Enhancements

• Enhanced the following IPsec algorithms.
    Encryption: AES-256-GCM
    Hash: SHA-512
    DH Group: DH15 (modp3072), DH16 (modp4096), DH17 (modp6144), DH18 (modp8192), DH22 (modp1024s160), DH23 (modp2048s224), DH24 (modp2048s256), DH31 (curve25519)
    PRF: PRF SHA-256, PRF SHA-384, PRF SHA-512
• Added a syslog option for VRRP State Changes notifications.
• A detailed log message will now be recorded when importing a configuration fails.
• Users can now select multiple inbound interfaces within the same group address for static multicast routes.
• Added support for DHCP error logs.
• Added support for the Modbus protocol to the Advanced Protection function in the CLI.
• Added support for RFC 5424 format for syslog messages.
• Added support for Default Action Log to the Layer 3-7 Policy function.

Bugs Fixed

• The maximum supported number of tunnels shown at the bottom of the IPsec Settings page is incorrect.
• The "Login Authentication Failure Message" does not save properly.
• Using the newline character (\n) in the 'Login Message' and 'Login Authentication Failure Message' causes abnormalities in the output.
• The system is unable to ping the VRRP virtual IP.
• Users are able to bypass password policy violation warnings by pressing ESC on the keyboard.
• Time zone settings are not saved if GMT is set to 0.
• The device randomly reboots several times after powering on.
• CVE-2024-6387 vulnerability issue. For more details, search the Security Advisories section on the Moxa website for the following Security Advisory ID: MPSA-246387.
• CVE-2024-9137, CVE-2024-9139 vulnerability issues. For more details, search the Security Advisories section on the Moxa website for the following Security Advisory ID: MPSA-241154.
• CVE-2024-1086 vulnerability issue. For more details, search the Security Advisories section on the Moxa website for the following Security Advisory ID: MPSA-249807.

Changes

• Changed the Trusted Access behavior: Trusted Access now applies to the Web UI, CLI, and New Moxa Command interfaces.
• Changed the Preempt Delay range for the VRRP function from 10 to 300 to 0 to 300.
• Changed the maximum password and share key length to 64 characters.
• The password and shared key now support special characters.

Notes

N/A

Version: v3.9.0	Build: 24060420
Release Date: Jun 04, 2024	

Applicable Products

OnCell G4302-LTE4 Series

Supported Operating Systems

N/A

New Features

• Added support for TACACS+ authentication.
• Added support for LAN ID to DHCP Option 82 in the DHCP relay agent.
• Added support for Proxy ARP for LAN interfaces.
• Added support for MRC Quick Link Ultra v4.0.0.
• Added support for Deep Packet Inspection (DPI).

Enhancements

• Increased maximum number of static multicast entries from 256 to 1000.
• Increased the maximum username length to 32 characters for local account, SNMP, RADIUS, and IEEE 802.1X authentication.
• Increased the maximum length of passwords, communities, and shared keys to 64 characters for local account, SNMP, RADIUS, and IEEE 802.1X authentication.
• Unified the range of supported special characters for local account, SNMP, RADIUS, and IEEE 802.1X.
• Modified the DoS policy for Flood Protection to allow independent limit ranges for each interface.

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Bugs Fixed

• Users are unable to access the web console if their login password includes "$$".
• Units are incorrectly displaying as "packets" on the vertical axis of network statistics.
• Network statistics values are inaccurate when using ports for measurement.
• Restoring the device configuration may fail under specific circumstances.
• The allowed characters for the Password Policy are shown incorrectly.

Changes

N/A

Notes

N/A

Version: v3.0.0	Build: 23082321
Release Date: Aug 31, 2023	

Applicable Products

OnCell G4302-LTE4 Series

Supported Operating Systems

N/A

New Features

• Added support for the MXsecurity Series management software v1.1.0 through MXsecurity Agent Package v2.0.13.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A