



Firmware for MGate 5105-MB-EIP Series Release Notes

Version: v4.5	Build: 23090415
Release Date: Sep 26, 2023	

Applicable Products

MGate 5105-MB-EIP Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Upgrades OpenSSL version to v1.1.1t.
- Upgrades SQLite version to v3.41.2.
- Enhances the Modbus RTU/ASCII Traffic Monitor display mechanism.
- Enhances the protection of the MGate Modbus TCP server against flooding caused by excessive Modbus TCP connections and requests.

Bugs Fixed

- An issue with the MGate 5105 screen freezing when accessing the Quick Setup page.
- An issue with the Modbus inter-character timer mechanism when receiving only one character.
- Web UI freezes when the DNS server does not respond.

Changes

N/A

Notes

N/A



Version: v4.4	Build: 22041811
Release Date: Apr 29, 2022	

Applicable Products

MGate 5105-MB-EIP Series

Supported Operating Systems

N/A

New Features

- Supports the HTTP response headers (HSTS, X-Frame-Option, X-Content-Type-Options) for security purposes.

Enhancements

- Upgraded the OpenSSL version to v1.1.1l
- Upgraded the Dropbear version to 2020.81
- Upgraded the Net-SNMP version to v5.9.1
- Upgraded the mosquito version to 1.6.15

Bugs Fixed

- Fixed the issue with the MGate 5105 not responding in Modbus ASCII slave mode when writing large number of registers.
- Fixed the Modbus server function, which stopped when the system IP address changed.
- Fixed the issue with MGate5105 Ethernet/IP connections timing out after receiving abnormal UDP packets.
- Fixed the Modbus function code 23 swap function that did not work.

Changes

N/A

Notes

N/A



Version: v4.3	Build: Build 21020513
Release Date: Mar 02, 2021	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

- Supports MCC Tool.

Enhancements

- Supports MXconfig v2.6 and MXview v3.2.
- Enhanced log table placement.
- Enhanced cipher suite.
- Upgraded SQLite version to v3.33.0.
- Upgraded Mosquitto version to v1.6.12.

Bugs Fixed

- Fixed the stuck system issue when the IP setting begins with a zero digit.
- Fixed CVE-2011-1473.
- Fixed the memory leak when receiving the wrong LLDP packets continuously.

Changes

- The default setting for the telnet console has been disabled.
- Extended the length of the email alert username.
- Changed the default TCP/IP keep alive check timeout to 1 minute.

Notes

N/A



Version: v4.2	Build: Build 19112022
Release Date: Nov 20, 2019	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Enhances EtherNet/IP-to-MQTT protocol conversion performance.

Bugs Fixed

- Fixed incorrect display of dataflow direction in I/O data mapping page.
- Fixed faulty I/O data mapping issue.
- Fixed command injection cybersecurity vulnerability with built-in web console UI.

Changes

N/A

Notes

N/A



Version: v4.1	Build: Build 19052716
Release Date: Jul 02, 2019	

Applicable Products

MGate 5015-MP-EIP, MGate 5015-MP-EIP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Upgraded OpenSSL version to v1.1.1b.
- Upgraded SQLite version to v3.27.2.
- Upgraded Net-SNMP version to v5.7.3.
- Optimized the response time on Modbus write command under Modbus slave mode.

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v4.0	Build: 19033000
Release Date: Mar 31, 2019	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

- Connects Modbus/EtherNetIP I/O Data to Azure Cloud
- Connects Modbus/EtherNetIP I/O Data to Alibaba Cloud
- Connects Modbus/EtherNetIP I/O Data to MQTT

Enhancements

- Changes the default value to byte for Endian swap in the Modbus Setting pages

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v3.0	Build: 18092716
Release Date: Jan 09, 2019	

Applicable Products

MGate 5105-MB-EIP, MGate 5105-MB-EIP-T

Supported Operating Systems

N/A

New Features

- Supports new hardware rev. v1.1.0.
- Supports Accessible IP additional restrictions.
- Modified firmware structure for security purposes; need to upgrade to v2.0 before upgrading to v3.0.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v2.0	Build: Build 18012622
Release Date: Mar 21, 2018	

Applicable Products

MGate 5105-MB-EIP, MGate 5105-MB-EIP-T

Supported Operating Systems

N/A

New Features

- Passed ODVA EtherNet/IP Specification (CT14) conformance test .
- Added Telnet/SSH console.
- Added quick setup wizard.

Enhancements

- Supports security features based on IEC-62443.
- Supports Modbus TCP traffic log.
- Supports Modbus status monitoring and fault protection functions.
- Supports EtherNet/IP status monitoring and fault production functions.
- Accessible IP List supports denying Web/Telnet/SSH console access.

Bugs Fixed

- Incorrect topology display due to forwarding LLDP frames to another LAN port.

Changes

N/A

Notes

N/A



Version: v1.2	Build: Build 16070415
Release Date: Nov 11, 2016	

Applicable Products

MGate 5105-MB-EIP, MGate 5105-MB-EIP-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Supports Name/Contact/Location settings for MXconfig.
- Patched glibc to protect against GHOST vulnerability.

Bugs Fixed

- HTTPS web server enhancements to protect against DROWN attacks.
- In a race condition, EtherNet/IP and Modbus communication may sometimes stop, and the system needs to be reset to recover.
- In Modbus TCP Master mode, sending write command using data change trigger mode will terminate the communication link.
- In DHCP mode, SNMP tool reading a private MIB file would return the default IP/netmask/gateway.
- Modbus master mode would sometimes send incorrect data when write command is in cyclic mode and set to byte swap.

Changes

N/A

Notes

N/A



Version: v1.1	Build: Build 13111222
Release Date: N/A	

Applicable Products

MGate 5105-MB-EIP, MGate 5105-MB-EIP-T

Supported Operating Systems

N/A

New Features

- Passed ODVA conformance test.

Enhancements

- Supports 100 ms Modbus command polling interval.
- Improved compatibility with the ABB IRC5 robot.

Bugs Fixed

- EtherNet/IP class connection timeout is too long.
- Declared ListServices capability in the support flag.
- MGate 5105-MB-EIP should not send a response when receiving a packet with the wrong session ID.

Changes

N/A

Notes

N/A



Version: v1.0	Build: Build 13061810
Release Date: N/A	

Applicable Products

MGate 5105-MB-EIP, MGate 5105-MB-EIP-T

Supported Operating Systems

N/A

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A