



Firmware for MGate 5118 Series Release Notes

Version: v2.5	Build: 25080415
Release Date: Sep 22, 2025	

Applicable Products

MGate 5118 Series

Supported Operating Systems

N/A

New Features

- Supports new hardware version v1.1.0.

Enhancements

- Adds configurable J1939 source address for output commands.
- Upgrades OpenSSL to v1.1.1za.
- Adds new system log events to record login interfaces, configuration changes, and the user's IP/account.
- Enhances secure communication for Moxa utilities.

Bugs Fixed

- A J1939 communication stop issue when receiving fast CAN data at 1 ms frequency.
- An IP change issue triggered when a specific TCP packet is received.

Changes

- Disables ChaCha20-Poly1305 and CBC with Encrypt-then-MAC on the SSH server because of cybersecurity concerns.
- Changes J1939 LED blink interval from "immediate" to "one flash every 500 ms".
- Changes the minimum Modbus Poll Interval from 100 ms to 10 ms.

Notes

N/A



Version: v2.4	Build: 23090415
Release Date: Sep 26, 2023	

Applicable Products

MGate 5118 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- pgrades OpenSSL version to v1.1.1t.
- pgrades SQLite version to v3.41.2.
- nhances the PROFINET DCP rate limit function when too many DCP discovery requests are received in a short time.
- nhances the Modbus RTU/ASCII Traffic Monitor display mechanism.
- nhances the protection of the MGate Modbus TCP server against flooding caused by excessive Modbus TCP connections and requests.

Bugs Fixed

- An issue with the J1939 input data where message offset bigger than 0 is incorrectly written in the internal memory.
- 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: v2.3	Build: 22041811
Release Date: Apr 29, 2022	

Applicable Products

MGate 5118 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

- Supports 1Mbps baudrate for J1939
- Upgraded the OpenSSL version to v1.1.1l
- Upgraded the Dropbear version to 2020.81
- Upgraded the Net-SNMP version to v5.9.1

Bugs Fixed

- Fixed the Modbus server function, which stopped when the system IP address changed.
- Fixed the issue of not being able to output PGN 50944 and 51200.

Changes

N/A

Notes

N/A



Version: v2.2	Build: Build 21020514
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.

Bugs Fixed

- Fixed the stuck system issue when the IP setting begins with a zero digit.
- Fixed the command injection cybersecurity vulnerability with a built-in web console UI.
- Fixed CVE-2019-11477.
- 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: v2.1	Build: Build 19052723
Release Date: Jul 02, 2019	

Applicable Products

MGate 5118, MGate 5118-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.
- When J1939 received an input message length that was shorter than the configured length, the rest of the portion was filled with 0.

Bugs Fixed

- J1939 Endian swap did not work when Message offset was set to non-zero value.
- J1939 RTS/CTS output message might be delayed by BAM output message.
- J1939 output message might carry incorrect source address value when another device in J1939 network had same J1939 device name as MGate.
- Optimized the response time on Modbus write command under Modbus slave mode.

Changes

N/A

Notes

- Before upgrading to firmware v2.1 or higher, please make sure you have already upgraded the unit to v2.0.

Version: v2.0	Build: Build 18012622
Release Date: Mar 07, 2018	

Applicable Products

MGate 5118, MGate 5118-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Support for Modbus TCP traffic log.
- Accessible IP List supports denying Web/Telnet/SSH console access.

Bugs Fixed

- J1939 Traffic web page shows Output data incorrectly when Output Message offset is configured to a non-zero value.
- J1939 still sends request PGN even when corresponding PGN is received.
- J1939 Output interval is not consistent with configured Update Interval value.
- Incorrect topology display due to forwarding LLDP frames to another LAN port.
- According to EtherNet/IP Specification (CT14), aligned Manual Setting attribute of Ethernet Link Object with the identically-named bit in the Interface Capability attribute.

Changes

N/A

Notes

N/A



Version: v1.0	Build: Build 16091916
Release Date: Dec 16, 2016	

Applicable Products

MGate 5118, MGate 5118-T

Supported Operating Systems

N/A

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A