



Firmware for MGate 5101-PBM-MN Series Release Notes

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

Applicable Products

MGate 5101-PBM-MN 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 protection of the MGate Modbus TCP server against flooding caused by excessive Modbus TCP connections and requests.

Bugs Fixed

- An issue parsing user parameters with 'MTS R-Series'.
- An issue parsing user parameters with 'MOOG ServoDrive'.
- Web UI freezes when the DNS server does not respond.

Changes

N/A

Notes

N/A



Version: v2.3	Build: 22041217
Release Date: Apr 29, 2022	

Applicable Products

MGate 5101-PBM-MN 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

Bugs Fixed

- Fixed the issue regarding parsing maximum diagnostic data length with SITRAS DPU96 PU.
- Fixed the issue regarding parsing user parameters with FR-A7NP.
- Fixed the issue regarding parsing user parameters with Danfoss FC-202.
- Fixed the Modbus server function, which stopped when the system IP address changed.

Changes

N/A

Notes

N/A



Version: v2.2	Build: Build 21020512
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 19052722
Release Date: Jul 02, 2019	

Applicable Products

MGate 5101-PBM-MN, MGate 5101-PBM-MN-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.
- Added the information about PROFIBUS Data Exchange Intervals.
- Optimized the response time on Modbus write command under Modbus slave mode.

Bugs Fixed

- When writing a coil value, it would overwrite nonrelative coil values under Modbus slave mode.
- When parsing a PXC_06CC.GSD file, user parameters were misallocated.
- When parsing an si04806a.GSD file, user parameters were misallocated.
- Web console would not respond when importing SE100E2E.GSD (Schneider Altivar Process 600).

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 21, 2018	

Applicable Products

MGate 5101-PBM-MN, MGate 5101-PBM-MN-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Supports security features based on IEC-62443.
- Supports Modbus fault protection function.
- Simplified telnet/ssh/serial console settings.
- Accessible IP List supports denying Web/Telnet/SSH console access.

Bugs Fixed

- Issue importing SIE180BB.GSD (Siemens SIMEAS P).
- Issue parsing user parameters with WAGO 750-303.

Changes

N/A

Notes

N/A



Version: v1.2	Build: Build 16070415
Release Date: Sep 09, 2016	

Applicable Products

MGate 5101-PBM-MN, MGate 5101-PBM-MN-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Supports Name/Contact/Location settings for MXconfig.
- Supports PROFIBUS module names over 32 characters long. MGate 5101-PBM-MN will truncate the displayed module name when its length is over the 32-character limitation specified by the PROFIBUS GSD specification.
- Changed the PROFIBUS Watchdog default value to 600 ms for baudrate of 500 kbit/sec or above.
- HTTPS server only supports TLSv1.0 to protect against DROWN attacks.
- Patched glibc to protect against GHOST vulnerability.

Bugs Fixed

- Could not import too many GSD files or GSD files that were too large. (Note: If downgrading firmware to v1.1, imported GSD files will be lost).
- MGate can not communicate with some specific PROFIBUS slave devices due to only support portion of user parameters of device.
- Returned the wrong IP/netmask/gateway when SNMP read private MIB under DHCP mode.
- MGate 5101-PBM-MN could not communicate with some specific PROFIBUS slave devices due to incorrect parsing of a module's user parameter data.
- MGate 5101-PBM-MN could not communicate with ABB M102 slave (with ABB_08DD.gsd).
- In Modbus TCP Master mode, sending write command using data change trigger mode will terminate the communication link.

Changes

N/A

Notes

N/A



Version: v1.1	Build: Build 13073014
Release Date: N/A	

Applicable Products

MGate 5101-PBM-MN, MGate 5101-PBM-MN-T

Supported Operating Systems

N/A

New Features

- Certified by PI (PROFIBUS & PROFINET International).
- Supports Modbus and PROFIBUS configuration via web console.
- Supports "23 Read/Write Multiple Registers" command for Modbus.
- Supports SNMP and LLDP protocol.
- Supports SNMP trap and E-mail alert functions. (Use MGate Manager v1.9 or later to configure these new functions.)

Enhancements

N/A

Bugs Fixed

- MGate sometimes does not sync data between internal memory and PROFIBUS slaves during system startup.
- MGate could not communicate with devices on other subnets.

Changes

N/A

Notes

N/A



Version: v1.0	Build: Build 12081716
Release Date: N/A	

Applicable Products

MGate 5101-PBM-MN, MGate 5101-PBM-MN-T

Supported Operating Systems

N/A

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A