



## Firmware for MGate 5101-PBM-MN Series Release Notes

<b>Version: v2.5</b>	<b>Build: 26011822</b>
<b>Release Date: Mar 23, 2026</b>	

### Applicable Products

MGate 5101-PBM-MN Series

### Supported Operating Systems

N/A

### New Features

N/A

### Enhancements

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

### Bugs Fixed

- An IP change issue triggered when a specific TCP packet is received.
- S11380fd.gsg import issue.

### Changes

- Changes the minimum Modbus Poll Interval from 100 ms to 10 ms.
- Removes the Diffie-Hellman algorithm for enhanced cybersecurity.

### Notes

- MGate Manager is no longer supported starting with this firmware version; please use DSU and the web console instead.



<b>Version: v2.4</b>	<b>Build: 23090415</b>
<b>Release Date: Sep 26, 2023</b>	

### **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



<b>Version: v2.3</b>	<b>Build: 22041217</b>
<b>Release Date: Apr 29, 2022</b>	

### **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



<b>Version: v2.2</b>	<b>Build: Build 21020512</b>
<b>Release Date: Mar 02, 2021</b>	

### **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



<b>Version: v2.1</b>	<b>Build: Build 19052722</b>
<b>Release Date: Jul 02, 2019</b>	

### **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.



<b>Version: v2.0</b>	<b>Build: Build 18012622</b>
<b>Release Date: Mar 21, 2018</b>	

### **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



<b>Version: v1.2</b>	<b>Build: Build 16070415</b>
<b>Release Date: Sep 09, 2016</b>	

### **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



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

### **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



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

**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