Firmware for MGate 4101-MB-PBS Series Release Notes

<table>
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<tr>
<th>Version:</th>
<th>v2.0</th>
<th>Build:</th>
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<tbody>
<tr>
<td>Release Date:</td>
<td>Apr 22, 2020</td>
<td></td>
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**Applicable Products**
MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

**Supported Operating Systems**
N/A

**New Features**
N/A

**Enhancements**
N/A

**Bugs Fixed**
- A Modbus data frame error occurred due to the misidentification of a specific Modbus RTU packet.

**Changes**
N/A

**Notes**
N/A
Applicable Products
MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

Supported Operating Systems
N/A

New Features
- Supports Modbus fault protection.
- Supports Modbus and PROFIBUS command tag name.
- Supports I/O data view.

Enhancements
- Enhanced Modbus communication performance.

Bugs Fixed
- Data error would occur with low baudrate and FIFO enabled for Modbus RTU communication.

Changes
N/A

Notes
N/A
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<tr>
<th>Version: v1.5</th>
<th>Build: Build 15082009</th>
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<tbody>
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<td>Release Date: N/A</td>
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**Applicable Products**
MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

**Supported Operating Systems**
N/A

**New Features**
N/A

**Enhancements**
N/A

**Bugs Fixed**
- Modbus RTU communication would stop if MGate continuously operated without power cycling for over 49.7 days.

**Changes**
N/A

**Notes**
N/A
<table>
<thead>
<tr>
<th>Supported Operating Systems</th>
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<tbody>
<tr>
<td>MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T</td>
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</table>

**Bugs Fixed**
- Modbus slave ID can be set to 248 ~ 255.
- Modbus ASCII communication may stop if an error frame was received.
- Modbus RTU communication would fail if FIFO was disabled.

**Enhancements**
- N/A

**New Features**
- N/A

**Changes**
- N/A

**Notes**
- N/A
Applicable Products
MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems
N/A

New Features
N/A

Enhancements
N/A

Bugs Fixed
- MGate 4101 PROFIBUS port stopped responding to PROFIBUS telegrams after receiving broadcast telegrams with destination SAP 63.

Changes
N/A

Notes
N/A
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**Applicable Products**
MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

**Supported Operating Systems**
N/A

**New Features**
N/A

**Enhancements**
- Passed PI certification test.
- Changed the minimum value of the polling interval in Modbus master commands to 10 ms.

**Bugs Fixed**
- MGate 4101 would return incorrect diagnostic data to the PROFIBUS master after powering on.

**Changes**
N/A

**Notes**
N/A
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<th>Version:</th>
<th>v1.1</th>
<th>Build:</th>
<th>Build 13030614</th>
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**Applicable Products**
MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

**Supported Operating Systems**
N/A

**New Features**
N/A

**Enhancements**
N/A

**Bugs Fixed**
- Compatibility issues with the HMS PROFIBUS Master simulator.

**Changes**
N/A

**Notes**
N/A
Applicable Products
MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems
N/A

New Features
N/A

Enhancements
N/A

Bugs Fixed
• MGate 4101 would reply with the wrong value when receiving SSA (Set-Slave-Address) commands from the PROFIBUS Master.
• Cleared diag.Ext_diag flag when a PROFIBUS watchdog timeout occurred.

Changes
N/A

Notes
N/A
## Version: v1.1  Build: Build 12121114  

| Release Date: | N/A |

### Applicable Products
MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

### Supported Operating Systems
N/A

### New Features
N/A

### Enhancements
N/A

### Bugs Fixed
- MGate 4101-PBM-MB would return success when the PROFIBUS master sent a chk_cnf telegram and the I/O configuration was inconsistent with the device settings.

### Changes
N/A

### Notes
N/A
Applicable Products
MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

Supported Operating Systems
N/A

New Features
N/A

Enhancements
• Changed the minimum value of the polling interval in Modbus master commands to 10 ms.

Bugs Fixed
• MGate 4101 would sometimes return diagnostic data with Stat_Diag bit of octet 2 and Ext_Diag_Overflow bit of octet 3 set to 1 after powering on.

Changes
N/A

Notes
N/A
<table>
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<th>Version: v1.1</th>
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## Applicable Products
MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

## Supported Operating Systems
N/A

## New Features
N/A

## Enhancements
- Shortened the time required to set configuration, get configuration, import configuration, export configuration, and firmware upgrade.
- Changed PROFIBUS ident number from 0x0405 to 0x0D80.
- QuickLink learning function can take up to 3 Modbus master requests to learn the Modbus devices well.

## Bugs Fixed
- Unable to upgrade to firmware files over 180 KB.
- MGate 4101 would sometimes reboot repeatedly after powering on.
- MGate 4101 would fail to stop providing error diagnostics for PROFIBUS when there is no timeout to expire MODBUS requests.

## Changes
N/A

## Notes
N/A
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<th>Version: v1.0</th>
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**Applicable Products**
MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

**Supported Operating Systems**
N/A

**New Features**
- First release.

**Enhancements**
N/A

**Bugs Fixed**
N/A

**Changes**
N/A

**Notes**
N/A