



## Firmware for MGate MB3660 Series Release Notes

<b>Version:</b> v3.3	<b>Build:</b> 24061210
<b>Release Date:</b> Jun 28, 2024	

### Applicable Products

MGate MB3660 Series

### Supported Operating Systems

N/A

### New Features

N/A

### Enhancements

- Updates mbedtls version to 2.28.8.

### Bugs Fixed

- An issue of MGate restarting after executing SNMP commands.
- An issue of MGate treating Modbus RTU responses using function code 43 as illegal packet (CRC).
- An issue of instability in Modbus communication when the LLDP service is enabled under the single IP mode.
- Fix the issue where MGate MB3660 Function code 23 in Agent mode doesn't work correctly.
- Fix the issue of Modbus TCP communication timeouts.

### Changes

N/A

### Notes

N/A



<b>Version: v3.2</b>	<b>Build: 23053016</b>
<b>Release Date: Jun 05, 2023</b>	

### **Applicable Products**

MGate MB3660 Series

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Upgrades mbedtls version to 2.28.3.

### **Bugs Fixed**

- An issue of Port configuration Import not working in Agent mode.
- MGate Intelligent Mode treating Auto Detection command as intelligent command.
- An issue of response timeout set to 0 after using Auto Detection function.
- An issue of MGate authenticate failure with the RADIUS server when some RADIUS authentication parameters are corrected/changed. Specifically, 'service-type' set to 'login(1)' and when the 'filter-ID' does match the group name on the MGate.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v3.1</b>	<b>Build: 22041517</b>
<b>Release Date: Apr 29, 2022</b>	

### **Applicable Products**

MGate MB3660 Series

### **Supported Operating Systems**

N/A

### **New Features**

- Supports the HTTP Strict Transport Security (HSTS) header in the HTTPS console.
- Supports the optional configuration feature "Accept Arbitrary Host Header"

### **Enhancements**

- Supports an "ARP probe" in RFC5227. The MGate will respond to an ARP request with the sender IP address 0.0.0.0.

### **Bugs Fixed**

- Fixed the mode activation issue when switching from disable mode to agent mode or transparent mode.
- Fixed the Modbus TCP request routing to slaves, which might have failed due to miscalculating the pending request count in Modbus transparent mode.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v2.5</b>	<b>Build: 20090212</b>
<b>Release Date: Sep 29, 2020</b>	

### **Applicable Products**

N/A

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Vulnerability issues (higher level or above) have been fixed, following a Nessus and Defensics scan.
- Supports MXconfig v2.6 and MXview v3.1.8.
- Enhanced the System Log display.
- Strengthened the TLS cipher suite for security enhancement.
- Enhanced MOXA commands under the account login process.
- Adjusted Telnet default settings from enable to disable.
- Disabled unsecure TLS 1.0 and TLS 1.1.
- Enhanced Accessible IP List feature.

### **Bugs Fixed**

- Added CSRF attack protection for login webpage.
- Serial parameters might have been incorrect when switching between ASCII and RTU modes.
- Fixed the incomplete display in the web console.
- Fixed SNMPv3 issues.
- Fixed the MGate's failure to get an IP address under DHCP mode.
- Fixed https connections that might have caused the web service to stop working.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v2.4</b>	<b>Build: N/A</b>
<b>Release Date: Mar 27, 2020</b>	

**Applicable Products**

N/A

**Supported Operating Systems**

N/A

**New Features**

Supports MGate MB3660I-8-2AC and MGate MB3660I-16-2AC new hardware version v1.1.

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A



<b>Version: v2.3</b>	<b>Build: Build 18113012</b>
<b>Release Date: Jan 16, 2019</b>	

### **Applicable Products**

MGate MB3660-8-J-2AC, MGate MB3660I-16-2AC, MGate MB3660-16-J-2AC, MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

### **Supported Operating Systems**

N/A

### **New Features**

- Supports security features based on IEC-62443.

### **Enhancements**

- Accessible IP List supports denying Web/Telnet console access.

### **Bugs Fixed**

- In Agent mode as a Modbus ASCII master, MGate would hang after plugging and unplugging a serial cable.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v2.2</b>	<b>Build: Build_18030817</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

MGate MB3660-8-J-2AC, MGate MB3660I-16-2AC, MGate MB3660-16-J-2AC, MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

- Enhanced the complexity of token generation to protect against CSRF attacks.
- Enhanced the complexity of the key for password encryption in the web console login process.
- Encrypts sensitive information in exported configuration file.
- Enhanced the display of auto detection results in MODBUS transparent mode.

### **Bugs Fixed**

- Firmware version check problem when upgrading firmware for MGate MB3660I-16-2AC, MB3660-8-J-2AC, and MB3660-16-J-2AC.
- Modbus RTU communication would fail if FIFO was disabled.
- The FIFO setting would not be activated after clicking the “Submit” button.
- Stack-based buffer overflow issue in web console which may cause web service corruption.
- Challenge ID generation problem which may cause web console login failure.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v2.1</b>	<b>Build: Build_17081110</b>
<b>Release Date: Nov 24, 2017</b>	

### **Applicable Products**

MGate MB3660-8-J-2AC, MGate MB3660I-16-2AC, MGate MB3660-16-J-2AC, MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

### **Supported Operating Systems**

N/A

### **New Features**

- Supports MGate MB3660I-16-2AC, MGate MB3660-8-J-2AC, MGate MB3660-16-J-2AC models.

### **Enhancements**

- Improved security of the TCP sequence number.
- Improved beeper behavior in DHCP mode.

### **Bugs Fixed**

- Modbus RTU diagnose error in agent mode.
- Initial error relay state when powered on.

### **Changes**

N/A

### **Notes**

N/A





<b>Version: v2.0</b>	<b>Build: Build 17060710</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

### **Supported Operating Systems**

N/A

### **New Features**

- Supports Auto Device Routing in Modbus transparent mode.
- Supports Modbus TCP traffic logs.

### **Enhancements**

- The Modbus master in agent mode supports up to 256 commands for each serial port.
- Supports multi-master in "routing by IP address" and "routing by TCP port" modes.
- Supports sorting of commands in the I/O mapping page.
- Supports auto internal memory assign in the command page.
- Supports Modbus slave ID 255 in transparent mode.

### **Bugs Fixed**

- User password and SNMP community name may be exposed by a buffer overflow issue.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v1.3</b>	<b>Build: Build 16110313</b>
<b>Release Date: N/A</b>	

**Applicable Products**

MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

- Bug in Modbus Master mode which may cause the MGate to reboot under some conditions.

**Changes**

N/A

**Notes**

N/A



<b>Version: v1.2</b>	<b>Build: Build 16071210</b>
<b>Release Date: N/A</b>	

**Applicable Products**

MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

**Supported Operating Systems**

N/A

**New Features**

N/A

**Enhancements**

N/A

**Bugs Fixed**

- Initial delay issue which would stop Modbus communication.

**Changes**

N/A

**Notes**

N/A



<b>Version: v1.1</b>	<b>Build: Build 16042918</b>
<b>Release Date: N/A</b>	

### **Applicable Products**

MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

### **Supported Operating Systems**

N/A

### **New Features**

N/A

### **Enhancements**

N/A

### **Bugs Fixed**

- Fix the algorithm which may cause Modbus transparent mode to stop communication.
- Serial port 13 interface initialization problem.
- Modbus traffic exceptions in the serial port are not handled well, which might cause the serial port to stop transmitting data.
- When the "Read memory address" is greater or equal to 8192 for the "01 - Read Coils" or "02 - Read Discrete Inputs" functions, data will be written to the wrong internal memory address.

### **Changes**

N/A

### **Notes**

N/A



<b>Version: v1.0</b>	<b>Build: Build 15090716</b>
<b>Release Date: N/A</b>	

**Applicable Products**

MGate MB3660-8-2AC, MGate MB3660-8-2DC, MGate MB3660I-8-2AC, MGate MB3660-16-2AC, MGate MB3660-16-2DC

**Supported Operating Systems**

N/A

**New Features**

- First release.

**Enhancements**

N/A

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A