



Firmware for MGate MB3660 Series Release Notes

Version: v3.4	Build: 25060913
Release Date: Jul 03, 2025	

Applicable Products

MGate MB3660 Series

Supported Operating Systems

N/A

New Features

N/A

Enhancements

- Cybersecurity: Ensures that unused accessible IP groups are populated with default values when returned.
- Cybersecurity: Based on Nessus scan results, adds the autocomplete="off" attribute to web login forms to prevent browser credential caching.
- Cybersecurity: Ensures each event log records the source and the interface used for login events is identified and included in the event description.
- Cybersecurity: Removes weak cipher suites & upgrade RSA key length.
- Removes function code validation when forwarding broadcast requests to slave devices.

Bugs Fixed

- An issue where sending multiple requests to different serial ports simultaneously could result in the loss of Modbus TCP response data.
- An issue where an incorrect IP search response would occur after using the response timeout auto-detection feature in MGate Manager.
- Improve the handling of Modbus RTU-to-TCP conversion to be more tolerant of varying Modbus TCP connection conditions to ensure Modbus RTU requests are properly converted to Modbus TCP requests.

Changes

N/A

Notes

N/A



Version: v3.3	Build: 24061210
Release Date: 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



Version: v3.2	Build: 23053016
Release Date: Jun 05, 2023	

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



Version: v3.1	Build: 22041517
Release Date: Apr 29, 2022	

Applicable Products

MGate MB3660 Seires

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



Version: v2.5	Build: 20090212
Release Date: Sep 29, 2020	

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



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

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



Version: v2.3	Build: Build 18113012
Release Date: Jan 16, 2019	

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

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

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



Version: v2.1	Build: Build_17081110
Release Date: Nov 24, 2017	

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



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

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



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

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



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

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

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

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



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

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