

#### Version **Build Date No./** Apply to Models Supported OS **New Features/Enhancements Bugs Fixed/Changes** Note No. **Release Date** New Features: 1. Support Auto Device Routing function. Bugs Fixed: Enhancements: 3.0 Build 17030713 N/A MGate MB3480 N/A 1. Support Multi-master in port routing by IP/TCP port 1. The user's password and SNMP community name may be exposed by buffer overflow issue. modes. 2. Enable the protection of default password. Enhancements: Build 16053118 N/A MGate MB3480 1. Enhance strength of parameter used in web console N/A N/A 2.6 to avoid unauthorized access. Bugs Fixed: 1. Fix serial communication problem under low baudrate. Enhancements: Build 16012810 2. If Modbus TCP slave divide the TCP response to two packet, MGate can not support it. 2.5 N/A MGate MB3480 N/A 1. Allowed to modify Modbus TCP port. 3. When configured by SNMP, the system name, location and contact information can't be saved. 4. Slave id mapping info of serial port will be clear to zero when change the modbus mode. New Features: 2.4 Build 14121610 N/A MGate MB3480 Modbus routing by TCP port, IP address and multi-range N/A N/A slave ID.

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2.3	Build 14060915	N/A	MGate MB3480	Enhancements: 1. MGate supports the function, Auto Detection, on web console.	<ul> <li>Bugs Fixed:</li> <li>1. MGate might not boot up when serial port 1 connects to RS-485 or RS-422 device.</li> <li>2. Web page does not display correctly when text input field contains any of the four characters "\&gt;.</li> <li>3. MGate stops forwarding requests after receiving broadcast requests.</li> </ul>	N/A
2.2	Build 13062816	N/A	MGate MB3480	N/A	<b>Bugs Fixed:</b> 1. MB3480 sometimes cannot boot up properly. 2. Sometimes TCP PUSH packet will immediately be retransmitted due to imperfection of retransmission timeout algorithm.	N/A
2.1	Build 13042214	N/A	MGate MB3480	New Features: 1. Add RTS toggle flow control. 2. Modbus supports adjustable inter-character timeout and inter-frame delay. 3. Add SNMP. Enhancements: 1. If MGate receives an ARP request from some other host for which an ARP entry already exists, the hardware address in the ARP entry is updated accordingly. 2. For Modbus function code 01 to 04, if the receiving bytes of RTU frame exceeds the bytes count of Modbus, drop the unnecessary bytes.	<b>Bugs Fixed:</b> 1. MGate can not drop the unnecessary RTU bytes when MB3000 retry to receive multiple times situation. 2. When RTU slave replies an exception with Modbus function code from 01 to 04, MGate will treat this response as an illegal packet(CRC). 3. If user executes auto detection and cancels before it finishes, and repeat many times, the result will show wrong information. 4. When running in Modbus ASCII master mode, and the serial of Tx and Rx short-circuit, it may restart the system.	N/A



#### Version **Build Date No./** Supported OS Apply to Models **New Features/Enhancements Bugs Fixed/Changes** Note **Release Date** No. Buds Fixed: 1. When traffic is very crowded, MGate may loss some of packets. New Features: 2. According to RFC 2132, the DHCP option field must end with an "End Option", but MB3000 1. Add Web console. does not follow this policy. Therefore MB3000 can't get IP address from some particular DHCP 2. Add IP filter of 24 accessible IPs. servers. 3. Send gratuitous ARP as link is down and then up to 3. According to RFC 1542, minimal BOOTP (the UDP data field) should be 300 octets, so we pad check if there is IP conflict. it to 300 bytes. 4. Available to change remote slave TCP port. 4. MGate's BOOTP packet has no magic cookie in vendor information field. According to RFC 1542, if a special vendor-specific magic cookie is not being used, a BOOTP client SHOULD use the dotted decimal value 99,130,83,99 as specified in RFC 1497. In this case, if the client has no Enhancements: 1. When there is an un-existed TCP slave, MB3000 vendor information to communicate to the server, the octet immediately following the magic cookie would only try to connect to this slave as there is a SHOULD be set to the "End" tag (255) and the remaining octets of the 'vend' field SHOULD be set request for it. (In the previous version, MB3000 does to zero. 2.0 Build 09101913 N/A MGate MB3480 this as it received a request/response from any 5. Firmware version is inconsistent on telnet console and utility. N/A 6. Slave TCP port would be set as 0 after first time of firmware upgrading(above v1.0.5). master/slave) 7. In RTU mode, MB3000 sometimes divide a frame into two partial frames. The error happens 2. Set ON as default states of DTR & RTS, since some devices would be blocked as DTR or RTS is OFF even since the CRC is right when MB3000 receives first partial frame. when they don't use flow control. 8. In RTU mode, MB3000 sometimes drops last byte of packets when last 3 bytes are 00XX00. 3. In ASCII mode, ignore data attended after LF, since The error happens since the CRC is right even MB3000 drops last byte. some devices may issue these illegal packets. 9. As there is an un-existed slave, the current Modbus transmission would be delayed. 10. When MB3000 got a request before it establishes the connection of the target slave, the 4. In ASCII mode, check CR instead of LF to verify the correction of packet format. following requests would be blocked even after MB3000 finishes establishing the connection. 5. Send FIN instead of RST as a remote device sends 11. Set minimum data length of Modbus request/response as zero instead of 1 byte. FIN to close the connection. 12. Continuously send more than one reply to the serial master due to queue a request of the disconnected connection and send it after re-established the connection. 13. As there are two TCP client/slaves, connection status of the second one would be affected by 10 Build 07032619 N/A MGate MB3480 First Realse N/A N/A

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