



MNB-1000 Firmware 1.50E - Release Notes

Date: November 19, 2010

Firmware: 02:P01:01.50E

The release notes in this document describe software enhancements and corrections made to the MNB-1000 firmware revision listed above and contain important information that you should read before installing the updated firmware.

The firmware update file MNBPO1-0150D-0150E.bin should be applied to all MNB-1000 controllers that may be experiencing any of the below listed issues. Apply this update using WorkPlace Commissioning Tool (WPCT). This update file is intended to update firmware version 1.50D. The WPCT will apply the updates in order from any version as long as all previous firmware updates have been installed to WPCT or the version of WPCT is 5.7.4 or later.

Caution: Always backup the station database before performing any upgrade.

This firmware update fixes the following issues:

- **Issue:** The MNB-1000 does not respond to Who-Is-Router-To-Network message on the MS/TP network. When a WorkPlace Tech (WPT) tool is connected to the MS/TP network, it is unable to learn any network other than the MS/TP network to which it is connected.
Resolution: The correct response has been implemented allowing WPT tools to learn the entire BACnet internetwork from the MS/TP network. Please note that limiting the number of devices learned (during a single browse) should be practiced using the built-in browsing mechanism of WPT 5.7.3 or later.
- **Issue:** The MNB-1000 sends unrestricted Who-Is messages during the COV subscription process when the COV server device is offline. This causes excess traffic on the network.
Resolution: The Who-Is messages used when a COV server device does not respond have been restricted to only the instance number of the COV server device.
- **Issue:** The MN-1000 fails specific BACnet Testing Labs (BTL) tests. This will prevent the MNB-1000 from having BTL certification in the future if not fixed.
Resolution: The issues found during BTL testing have been fixed ensuring continued BTL certification. These fixes could prevent problems integrating to third party tools and head-end software.
- **Issue:** There is no means of purging the MNB-1000's BACnet routing table without re-starting (re-boot) the controller. This can be an issue during the building and setup of a BACnet internetwork if networks are created (either physically or virtually) and then deleted, or if networks are moved from one router to another. These actions can lead to bad (incorrect) router table entries.
Resolution: A web page interface has been added to allow the display and purging (clearing of entries) of the BACnet routing table. After purging the routing table it will

be rebuilt as the MNB-1000 learns of routers on the internetwork. To quickly rebuild the router table launch WPT 5.7.3 (or later) and start BACnet communications, the tool will perform a Who-Is-Router-to-Network command causing all routers to reply. This will set route entries in the routing tables of all routers. Router table entries can then be reviewed using the web page interface.

- **Issue:** The MNB-1000 has Spanning Tree Protocol (STP) enabled as a default setting. On an Ethernet network STP should only be enabled by directive of the network administrator (IT or IS department). Having STP enabled when it is not intended will cause unnecessary traffic (usually not a problem) and can cause network interruptions due to conflicts with switching equipment.
Resolution: STP is now disabled for all new MNB-1000 controllers having the v1.50E firmware. Any installations requiring STP use will need to have it enabled.

Note: Upgrading existing MNB-1000 controllers to firmware v1.50E will not disable STP. The pre-existing settings will be carried over. Disabling of STP after an upgrade from a previous version will need to be performed using the web page interface intended for that purpose.

- **Issue:** The MNB-1000 loses its application when an S-Link sensor is used to change the setpoint and then the controller is re-started. The setpoint value is written to an incorrect location corrupting the application database. When this happens the controller will use the default application when it is re-started.
Resolution: The write setpoint-value has been fixed preventing the database corruption.
- **Issue:** Common IP (Internet Protocol) ports echo (7), daytime (13) and time (37) are open. Having any of these IP ports open may be a cause of concern for customers that are sensitive to network security issues; these customers include defense installations, financial institutions and government buildings.
Resolution: The services using the echo, daytime and time protocols have been disabled which prevents IP ports 7, 13 and 37 being open. These services and protocols have no purpose during the normal operation of the MNB-1000.

Note: Disabling the echo protocol and closing of port 7 has the side effect that the MNB-1000 cannot be "pinged". Using the command line program Ping will not detect an MNB-1000 that has firmware v1.50E installed. Use WPCT instead of Ping to verify communications with the MNB-1000.

Obtaining Support

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