

BMENOC03x1 Firmware Release Notes

Models BMENOC0301 and BMENOC0311



Exec Revision History

V2.09	3/30/2017	Problem fixed / Enhancement • A malformed DHCP packet can cause a CPU exception resulting in unexpected operation. • A fault may occur with specific malformed IP frames. • A fault may occur after receiving a specific rate of PTP (Precision Time Protocol) packets for a period of time. • The output 'ETH_SCE_STATUS', of the Function Block 'ETH_PORT_CTRL', always returns '1' (command is not executed) even though the block is triggered with the right input.
V2.08	11/30/2016	Problem fixed / Enhancement Version 2.08 was for Limited Distribution • Communication issue with a Rockwell EN2DN. • Module could end up in a non-working state after a large number of swaps when installed in a Hot Standby system. • Modbus object failure in EIP explicit message. CIP MODBUS requests to class 0x44 returns 0x0C error code.

Details

The vulnerability has been corrected.

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The firmware did not check the current state of the service before executing the command and always return a 1 (error) to the ETH_PORT_CTRL control block.

A check was added in the firmware to get the current state of the service prior to performing the activation or de-activation of a service and the correct ETH_SCE_STATUS (ETH_PORT_CTRL return status bit in block).

Details

Mismanagement of the Run/Idle bit was resulting in issues establishing communications with some 3rd party products.

A fix has been implemented in the RTOS.

Changes were implemented in the Modbus object handler that resolved the issue.

		• Now supports a maximum of 64 simultaneous Modbus TCP connections on its server path.	Previous versions supported 32 Modbus TCP connections on its server path. Details For devices not on the host list, incoming DHCP requests for are now dropped.
V2.07	10/6/2016	Problem fixed / Enhancement Version 2.06 was for Limited Distribution • A reboot of the module would occur if the Address server receives a DHCP request from a device that is not in the DHCP server table. • Corrected a <i>Diagnostic</i> web page French language issue • Corrected an issue where duplicate eNOC IP addresses occurred after a forced M580 HSBY swap.	
V2.05	6/29/2016	Problem fixed / Enhancement • Closing the oldest connection can take up to 1 minute • Corrected an issue where duplicate eNOC IP addresses occurred after a forced M580 HSBY swap. • Support for 4k word Input/Output • Support for IO Scanning through routers • Support for DHCP through routers	Details The new behavior is when the maximum number of Modbus/UMAS server connections is reached, the oldest connection is closed immediately before the new connection is opened.
V2.04	2/15/2016	Problem fixed / Enhancement • Support for M580 Hot Standby functionality • Ethernet backplane port is now disabled in no-config for security reason • A_B_IP_ADDRESS_STATUS added in eNOC DDDT	Details This had been enabled in no-config in v2.03. IP Address A/B status (0 in case of duplicate IP or no IP assigned)

		• FIRMWARE_VERSION added in eNOC DDDT	Allows CPU WEB RackViewer to display the eNOC firmware version MSB=Major Revision, LSB=Minor Revision
		• FDR_USAGE added in eNOC DDDT	% of FDR server usage
		• NETWORK_HEALTH added in eNOC DDDT	0: A potential network broadcast storm is detected. 1: A network broadcast storm is not detected.
V2.03	11/1/2015	Problem fixed / Enhancement • Low performance on Modbus/TCP	Details Improved Modbus TCP throughput by removing messaging limitations.
V2.02	8/15/2015	Problem fixed / Enhancement • It was not possible to deactivate unused Ethernet ports • Deleting a data table from the web page using the delete button on the web page removes the table from the view. But, closing the browser, deleting the history and opening the web page again, the tables remain. • Could not communicate with a Rexorth VT-HNC100	Details Deactivation of unused Ethernet ports is now available when used with Unity V10 and the matching Unity V10 DTM. The tables can now be deleted. Code modified to allow communications with the Rexorth device where it uses a UDP checksum of 0 in it's CIP IO packets.
V1.03	3/6/2015	Problem fixed / Enhancement • Issues with displaying Web pages	Details
V1.01		Problem fixed / Enhancement • Initial Release	Details <i>The module can be upgraded in the field from V1.01 to any higher version.</i>