

BMXNOC0401 Firmware Release Notes

Exec Revision History

Version	Date	Problem fixed / Enhancement	Details
V2.03	04/24/2013		
	Bug Fixes	• The M340 TOD (Time of Day) clock would reset after a power cycle if a NOC0401 was configured in the system.	A TOD reset would occur on a 'Link-up' event on any port on the BMXNOC0401, even though a power cycle was not required. A clock reset was commonly observed after a power cycle of the system.
V2.02	01/10/2013		
	Bug Fixes	• An improvement was made to the switch forwarding table. • An improvement was made to the switch driver code.	The switch forwarding tables are now flushed on a link down event. Changes were made to how the driver selects which mode to use to communicate with the Marvel Switch for getting and setting of diagnostic and management data
V2.01	10/12/2012		
	Bug Fixes	• When a part of an RSTP ring made up of the BMXNOC0401 breaks, the ring recovery time can vary depending upon where the break is. Under some conditions the ring does not recover. • Retransmission of a packet requires the issuing of three duplicate ACKs. This is inconsistent with the behavior of our other products, and is also inefficient in an automation environment. • The DATA_EXCH block would fault if all links were broken on the NOC0401. • The recovery time for I/O scanning following a ring break in an RSTP ring takes much longer than the specified time.	The state tables were corrected to be consistent. The ring now recovers in the proper manner regardless of where the break occurs. The fast retransmission algorithm is now triggered by a single Duplicate ACK. When performing this action the order was corrected and when the cable is reconnected an error code will be returned if the device is not ready. The retry algorithm for the retransmission time was corrected.

Enhancement • Various issues related to security were addressed.

They include unencrypted passwords, open services that are insecure, multiple well-known passwords and an open debug port in the stack.

- 1 Encrypted HTTP password file that is stored on file system.
- 2 Removed Telnet service
- 3 Removed WindRiver debug port service
- 4 Use encrypted passwords in the code
- 5 Removed unused logins/passwords from firmware
- 6 Recompiled firmware without symbol table

Version	Date	Problem fixed / Enhancement	Details
V1.02	08/10/2012		
	Bug Fixes	• Communications would halt after approximately 50 days of continuous operation without indication to the user. A power cycle was required to recover communications.	The problem was due to the rollover of a set of counters which are used to determine the time of communications.

