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Firmware Release Notes

TSXETC101 EXEC V2.02

Affected Product (s)	Prior Version (s)	New Version (s)	Date
TSXETC101	1.02	2.02	Jan. 11, 2013

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TSXETC101 Version 2.02 Release Notes

1 IMPROVEMENT TO SWITCH DRIVER CODE

1.1 Issue

An improvement was made to in the switch driver code.

1.2 Resolution

Changes 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.

1.3 Customer Action

Upgrade to the latest TSXETC101 firmware.

TSXETC101 Version 2.01 Release Notes

2 DUP ACK REQUIRMENT TO TRIGGER FAST RETRANSMISSION

2.1 Issue

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. One duplicate ACK should trigger retransmission.

2.2 Resolution

This has been corrected and the fast retransmission algorithm is triggered by a single Duplicate ACK.

2.3 Customer Action

Upgrade the TSXETC101 firmware.

3 CYBER SECURITY CHANGES 20049336

3.1 Issue

There were various issues related to security. They include unencrypted passwords, open services that are insecure, multiple well-known passwords and an open debug port in the stack.

3.2 Resolution

- 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

3.3 Customer Action

Upgrade the TSXETC101 firmware.

TSXETC101 Version 1.02 Release Notes

4 COMMUNICATIONS STOPS AFTER 50 DAYS OF CONTINUOUS OPERATION

4.1 Issue

Communications would halt after approximately 50 days of continuous operation without indication to the user. A power cycle was required to recover communications.

4.2 Resolution

The problem was due to the rollover of a set of counters which are used to determine the time of communications.

4.3 Customer Action

Upgrade the TSXETC101 firmware.