HP BLc Intel® 4X QDR InfiniBand Switch Release Notes

Firmware Version 7.3.1.0.10

Part number: QL-IBSRN-1J
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1 Version

These release notes describe the changes, fixes, known issues and release details that apply to firmware version 7.3.1.0.10 for the HP BLc Intel® 4X QDR InfiniBand Switch (HP PN 505958-B21) and optional management module (HP P/N 505959-B21).

2 Changes

Hardware Support

- N/A

OS Support

- N/A

Software Components

- A license key is no longer required to activate the Embedded Subnet Manager (ESM).

Industry Standards Compliance

- N/A

3 Bug Fixes

Between 7.3.0.0.15 and 7.3.1.0.10:

- Vulnerability to SSL 3.0 protocol called CVE-2014-3566 (aka "POODLE" or "Padding Oracle" on Downgraded Legacy Encryption) has been corrected.

Between 7.2.1.1.16 and 7.3.0.0.15:

- Transmit discards are no longer observed on inter switch links (ISLs).
- Nodes no longer experience intermittent communication failure within the fabric.

Between 7.0.0.0.35 and 7.2.1.1.16:

- Corrected error recovery mechanisms.
- Chassis Viewer Firmware Update page now displayed correctly with Firefox 3.6 browsers.
- SNMP Target Address names that are 14 characters or greater now work properly.
- When thousands of nodes are rebooted in a fabric being managed by OpenSM, there are no longer intermittent connection issues on a small number of nodes.

4 Known Issues

The table below provides instructions to resolve each known issue for the firmware version 7.3.1.0.10.

Known Issue	Instructions
The `ismPortStats` command cannot be used with the `-port` option for Bay ports in the HP BLc Intel® 4X QDR IB Switch CLI.	Specify the `ismPortStats` command without the `-port` option to view the Port Statistics for Bay ports.
When rebooting the HP BLc Intel® 4X QDR IB Switch via Chassis Viewer, the page may not refresh properly after the reboot is complete.	Refresh the browser page.
It may take several minutes for the ports on the HP BLc Intel® 4X QDR IB Switch to initialize after a `portdisable` or `portenable` operation is performed.	None.
Setting the `idleTimeoutSet` only applies to the CLI session. GUI sessions will not time out and remain active, enabling users to navigate the system and change settings.	None.
Connections from a BL685 mezzanine 3 port 2 to the HP BLc Intel® 4X QDR IB Switch are not supported.	None. It is recommended to use a different mezzanine location on the BL685.
If updating from a previous release, and an SSH key with a length of greater than 511 bytes is present in the configuration, the firmware update will not be successful.	Before booting the switch, use the CLI command **sshKey rem** to remove each of the SSH keys that have a length of greater than 511 bytes. For detailed CLI information, refer to the HP BLc Intel® 4X QDR InfiniBand Switch CLI Reference Guide.
The CLI command **ismPortQsfpInfo** identifies cable lengths of 0.5 meters as as 1 meter.	None.

5 Additional Information

Included in This Release

- HP BLc Intel® 4X QDR IB Switch firmware version 7.3.1.0.10 (X.xt3.7.3.1.0.10.pkg)

Miscellaneous

- The switch-based Intel® True Scale Fabric Suite Fabric Manager supports a maximum of 500 nodes.
- The HP BLc Intel® 4X QDR IB Switch will auto-negotiate to the proper speed with any device that is configured for IBTA compliant auto-negotiation.
- Intel products will auto-negotiate with devices that utilize IBTA-compliant auto-negotiation.

  NOTE: When attaching Intel products to a third-party device, the bit error rate is optimized if the third-party device utilizes attenuation-based tuning.
- The HP BLc Intel® 4X QDR IB Switch has been qualified with the following web browsers:
  - Windows Internet Explorer version 9.0 (for Windows 7)
  - Windows Internet Explorer version 10.0 (for Windows 8)
  - Windows Internet Explorer version 11.0.9 (for Windows 8.1)
  - Mozilla Firefox latest version (for Windows XP and Windows 7)
  - Mozilla Firefox version 10 (for RHEL 6.4, and SLES11 SP2)
  - Mozilla Firefox version 17.0.10 (RHEL 6.5)
  - Mozilla Firefox version 17 (for SLES11 SP3, CentOS 6.4 and 6.5, Scientific Linux 6.4 and 6.5)

- Mozilla Firefox version 24.5.0 (for RHEL 7)
- Mozilla Firefox version 31 (for RHEL 6.6)

6 HP BLc Intel® 4X QDR InfiniBand Switch documentation

The HP BLc Intel® 4X QDR IB Switch kit also includes:

- Installation Guide

The other guides associated with the switch, not included in the kit are:

- User Guide
- CLI Reference Guide

All of the documentation referenced in this document is currently available on the Hewelett-Packard and Intel® websites.

7 Hardware Supported

These release notes apply to the following HP part numbers:

HP Part Number	Description
505958-B21	HP BLc Intel® 4X QDR InfiniBand Switch
505959-B21	HP BLc Intel® 4X QDR InfiniBand Management Module
583210-B21	HP BLc Intel® 4X QDR InfiniBand Mezzanine HCA*

* And all other InfiniBand HCAs and switches qualified by Intel and HP as interoperable with the hardware listed above.

8 Technical Support

Contact your HP representative if you need additional information.