



VirtuaLUN V6.0 Release Notes

July 2010

This release is for the following:

- SANBlaze VirtuaLUN FCoE Systems
- SANBlaze VirtuaLUN iSCSI Systems
- SANBlaze VirtuaLUN Fibre Channel Systems
- SANBlaze VirtuaLUN 6G SAS Systems
- SANBlaze Value/Enterprise Software only installations

Feature Enhancements:

iSCSI: This release includes support for iSCSI target mode emulation

FCoE:

- Ability to send UDP network traffic from ethernet ports .
- Ability to disable a particular target/initiator and have it logout.
- Ability to corrupt certain portions of FCoE frames.
- Added the ability to rate limit FCoE traffic sent from a port.
- Can send or ignore PAUSE frames.
- Support for out of order data frames and report counters in GUI.
- Support for point-to-point connection based on T11/10-039v0
- General performance enhancements for small block I/O.

Fibre Channel:

- Increase number of 8G target/initiators that can be created per port to 256 from 65

Non protocol specific product enhancements:

- Added multi-path awareness to initiator ports.
- Can inject T10 DIF errors on initiator and target ports.
- Add link to release notes in web GUI
- Add ClearTaskSet to task management page in GUI.
- Can configure parameters for random LBA that is used in initiator tests.
- Create 1 target 1 lun by default on target ports.
- Can input LBNs into a BadBlockTable for target luns
- Add links to next/previous port on port pages in the GUI
- Add option to initiator compare tests to do multiple writes before reads.
- Add I/O latency based on I/O size

Bug Fixes:

FCoE:

- 1280 – Fixed issue where setting a port offline didn't take it fully offline.
- 1753 – Fixed issue where certain FCoE frame were incorrectly padded.
- 1765 – Change to use r_a_tov instead of ed_tov for ELS requests that require a response.
- 1784 – Fix issue where read/write underrun error condition was not working as expected.

FCoE Errata:

If SendOffload is disabled and you are writing and reading from the same LUN. It is possible that there will be a CRC error on the received data.

The reason for this is the CRC is calculated on the data before it has been sent. The writing initiator can change the data and the calculated CRC is no longer correct. When the Target sends the Data it's the newly written data but uses the CRC from the old data. This results in a CRC error being detected by the system doing reads.

Fibre Channel:

- 1062 – Fixed issue where speed/topology settings were not sticky across reboots for 8g ports.
- 1660 – Fixed issue where system could crash when changing number of targets/initiators.

SAS:

- 1764 – Fixed system crash issue when connected to a Dohill SAS array.

SAS Errata:

Only a single path (narrow or up to 4-wide) is permitted when connecting to a given SAS address (expander or end device).

Generic Changes:

- 1035 – Fixed issue where tape changer luns showed non-applicable options in GUI.
- 1719 – Fixed issue where generic io page was not filling in page control for modesense commands.
- 1759 – Fixed issue where changing WWPN on mapped targets didn't work properly.