Linux Common HBA API Shared Library

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1. OS Support

This QLogic Linux API library package was tested on RHEL 3 with kernel version 2.4.21-15EL, and on SLES 9 with kernel version 2.6.5-7.145.

2. Supported Functions

This API release (version 3.00 build 10) supports the following SNIA Common API functions:

```
HBA_GetVersion
HBA_LoadLibrary
HBA_FreeLibrary
HBA_GetNumberOfAdapters
HBA_GetAdapterName
HBA_OpenAdapter
HBA_CloseAdapter
HBA_GetAdapterAttributes
HBA_GetAdapterPortAttributes
HBA_GetDiscoveredPortAttributes
HBA_SendCTPassThru
HBA_SetRNIDMgmtInfo
HBA_GetRNIDMgmtInfo
```

HBA_SendRNID (The data returned is not SNIA 1.x compliant. See Additional Notes.)

```
HBA_SendScsiInquiry
HBA_SendReportLUNs
HBA_SendReadCapacity
HBA_SendScsiInquiryV2
HBA_SendReportLUNsV2
HBA_SendReadCapacityV2
HBA_GetFcpTargetMappingV2
HBA_GetFcpTargetMapping
HBA_GetPortStatistics
HBA_GetEventBuffer
HBA_SendRPS
```

HBA_SendRLS (current via response buffer of HBA_SendRPS)

3. Additional Notes

- **FC Port ID format**: Currently, the FC Port ID is always returned by the QLogic defined SDM API in 3 byte fields. However, the SNIA defined Common API returns the FC Port ID in a 32-bit field. In `libqlsdm` version 1.10 Beta+ and Linux HBA driver version 4.35 Beta and later, the `ioctl` and API implementations treat this 32-bit field as if it were an array of 4 bytes, and store the FC Port ID in bytes 1, 2, and 3 of this array. Byte 0 of this 32-bit field is treated as a reserved field.

- **`HBA_SendRNID` data format**: The data format for this function has been changed. The resulting data is shifted down 4 bytes compared to the format defined in the SNIA specification. The value of the newly created 4 bytes at the beginning of the returned data should be ignored as they are currently only hard-coded values. The function return status still represents the actual response status of the `RNID` command sent.

- **Other features not supported**: Currently Linux API library does not support any externally available NVRAM and diagnostics related API function. These supports are planned for a later date.

4. Contacting Support

Please feel free to contact your QLogic approved reseller or QLogic Technical Support at any phase of integration for assistance. QLogic Technical Support can be reached by the following methods:

Web: http://support.qlogic.com

North America Contact Information
Email: support@qlogic.com
Phone: (952) 932-4040

Support contact information for other regions of the world is available at the QLogic website:
http://support.qlogic.com

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