

SANsurfer Fibre Channel Command Line Interface (CLI)

Version: 1.06.16 Build 49 (MS Windows, Redhat/SuSE Linux, and Apple MAC OS X)
1.06.16 Build 50 (Solaris X86 and SPARC)

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1. Overview

The following document provides details of the modifications and/or enhancements made to QLogic's SANsurfer FC CLI HBA management application.

- SANsurfer FC CLI 1.06.16 Build 49 – Windows/Linux/macOSx
- SANsurfer FC CLI 1.06.16 Build 50 – Solaris

2. Enhancements

SANsurfer FC CLI 1.06.16 Build 50 incorporates the following improvements over SANsurfer/SANblade CLI version 1.06.16 Build 43 (Windows/Linux/macOSx) and version 1.06.16 Build 46 (Solaris):

- Added support for the Solaris 5.x QLA driver.
- Added Solaris QLC support for LUNs > 255 (16K LUNs).
- Added application support for QLE210/220 HBAs.

- Added **Refresh** option, which allows user to manually refresh the configuration without having to restart the application (Interactive mode only).
- Added IOCTL module support for RH 4.0 in-box driver.

3. Bug Fixes

SANsurfer FC CLI 1.06.16 Build 49 (Windows/Linux/MacOSx) and Build 50 (Solaris) incorporates the following improvements over SANsurfer/SANblade CLI version 1.06.16 Build 43 (Windows/Linux/MacOSx) and Build 46 (Solaris). It is recommended to upgrade.

- Fixed the issue of unable to successfully start the application via the V1280 Console Serial port in Interactive mode (the flag "int" need to be specified).
- Fixed an issue with FCode update on QLA2300.
- Fixed an issue of missing HBA serial number in HBA information display.
- Only run dynamic update one time when selecting Auto Bindings on multiple HBAs.
- QME only cards to support 2G and below (Dell). Removed check from 0x0144, 0x013C, 0x013D.
- QEM to QMH change for SSDID 0x1705 SSVID 0x103C.
- Fixed an issue of Option ROM update on the Blades series.
- Fixed an issue of missing HBA serial number in HBA information display.
- Windows: added new HBAAPI 2.0.0.11.
- Windows: added new SDMAPI 1.28.0.30.
- QLA210 flash update: use 128K BIOS file instead of 1MB file as previous release.
- New Data rate selections for Dell/EMC 4G cards.

4. Known Issues

The following list identifies any known issues with SANsurfer FC CLI version 1.06.16 Build 49/50 that have yet to be resolved.

- If the user manually creates a single-line entry in the `sd.conf/st.conf` file as `name="sd/t" class="scsi" target=x lun=y`, the application will create invalid entries in `sd.conf/st.conf` when saving target persistent configuration data. This will have adverse effects when booting the system and possibly what target devices the driver reports to the OS. The problem is not seen with the default `sd.conf/st.conf` file that has all `target/lun` entries in two lines.
- When running SANsurfer FC CLI or any other application that uses the Solaris SDMAPI the following issue is seen if the process is killed or the system bug checks. The file that synchronized the different processes may be left behind, created by `sem_open` call. If this file is left behind, in `/var/tmp/.SEMD`, any QLogic application will fail to open any HBAs during initialization.

To resolve this issue, the file must be removed manually. The specific default file absolute path is:
`/var/tmp/.SEMD/qlsdm_dbsem_2`

NOTE: There is no standard for the `/var/tmp`, which can be overridden by the `TMPDIR` environment variables on the system. Please check you specific system for the exact value.

5. 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>

Email: support@qlogic.com

Phone: (952) 932-4040

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8. Additional Information

A. The following O/S versions were used during qualification:

- Solaris SPARC 2.6/2.7/8/9/10
- Solaris x86 9/10
- Windows 2000/SP4 Server and Advanced Server.
- Windows 2003 SP1 IA-32/IA-64/x64 Server and Enterprise Server (SP1).
- Red Hat Linux AS 3.0 IA-32, IA-64, and x86_64 Update 7.
- Red Hat Linux AS 4.0 IA-32, IA-64, and x86_64 Update 1.
- SuSE Linux ES 8 IA-32, IA64, and x86_64 versions SP 3,4.
- SuSE Linux ES 9 IA-32, IA64, and x86_64 versions SP 1,2.
- Apple Mac OS X 10.3.9 – 10.4.5 (ppc64 only).

The following Bootcode/driver versions or later MUST be used with application:

- QLA22xx
 - BIOS 1.83
 - FCode 2.00.05
 - Driver Solaris Sparc QLC 2.08/2.12
- QLA234x
 - BIOS 1.47
 - FCode 2.00.09
 - EFI (IA-64) 1.44
 - Drivers
 - Windows 2000/2003 SCSI Miniport ql2300.sys IA-32/IA-64/x64 versions 9.1.2.11
Windows 2003 STOR Miniport ql2300.sys (In Use IA-32/IA-64/x64 versions 9.1.2.16)
 - Linux 2.4 Kernel 7.07.04-2
 - Linux 2.6 Kernel 8.01.04
 - Mac OS X 1.0.1
 - Solaris x86 QLA 5.00 QLC 2.08/2.12
 - Solaris Sparc QLA 5.00 QLC 2.08/2.12
- QLE236x
 - 1MB OptionROM
 - BIOS 1.05
 - Drivers
 - Windows 2000/2003 SCSI Miniport ql2300.sys
 - IA-32/IA-64/x64 versions 9.1.2.11
 - Windows 2003 STOR Miniport ql2300.sys (In Use IA-32/IA-64/x64 versions 9.1.2.16)
 - Linux 2.4 Kernel 7.07.04-2
 - Linux 2.6 Kernel 8.01.04
 - Mac OS X 1.0.1
- QLA2xx
 - BIOS 1.23
 - Drivers
 - Windows 2000/2003 SCSI Miniport ql2300.sys
 - IA-32/IA-64/x64 versions 9.1.2.11
 - Windows 2003 STOR Miniport ql2300.sys (In Use IA-32/IA-64/x64 versions 9.1.2.16)
 - Linux 2.4 Kernel 7.07.04-2
 - Linux 2.6 Kernel 8.01.04
 - Mac OS X 1.0.1
 - Solaris x86 QLA 5.00 QLC 2.08/2.12

- QLA/QLE246x
 - BIOS 1.12
 - FCode 1.16
 - EFI 1.04
 - Firmware 4.00.18
 - Drivers
 - Windows 2000/2003 SCSI Miniport ql2300.sys
 - IA-32/IA-64/x64 versions 9.1.2.11
 - Windows 2003 STOR Miniport ql2300.sys (In Use IA-32/IA-64/x64 versions 9.1.2.16)
 - Linux 2.4 Kernel 7.07.04-2
 - Linux 2.6 Kernel 8.01.04
 - Mac OS X 1.0.1
 - Solaris Sparc QLA 5.00 QLC 2.08/2.12
 - Solaris x86 QLA 5.00 QLC 2.08/2.12

The following HBAs were used during qualification:

- QLA22xx
- QLA231x
- QLA234x
- QLE236x
- QLA2xx
- QLE246x
- QLA246x
- QCP234x
- QSB234x

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