

SANbox2

Firmware Release Notes

Version 1.5.1.04

50207-13 Rev A

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Version 1.5.1.04 is a feature release for the QLogic SANbox2 switch product line. If using the SANbox™ Manager fabric management application, you must use SANbox Manager version 1.05.21, or later, in conjunction with this firmware.

Important Notes

1. All SANbox2-16 switches with model numbers ending with the letters A through G (see below) cannot upgrade to the 1.4, or later, firmware release without contacting QLogic Technical Support first. Technical Support contact information can be found at the end of these release notes.



This letter will determine if a switch is capable of upgrading to 1.4, or later, firmware. This is located on the back of the SANbox2-16

2. This release will be the final release to support out of band GUI connectivity to SANbox 1Gb switches. When SANbox2 2.0 is released, SANbox 1Gb switches can be managed by one of two methods:
 - a) Inband management via a SANbox2 switch, or
 - b) Out of band management using a 1.05 version of SANbox Manager
3. Caution: When downgrading SANbox2 firmware from 1.4.0.xx, or later firmware releases, to 1.3.xx, all configuration data is lost and a 4-blink code flashes on the switch. A backup of the configuration, prior to downgrading to 1.3, is recommended. Visit the knowledgebase section of our web site at http://www.qlogic.com/support/knowledge_base.asp or contact QLogic Technical Support for assistance.
4. Due to upcoming changes in GS-4 for hard zones that will be implemented in the SANbox2 3.0 release, VPF hard zoning will be removed from the SANbox2 3.0 release. Any existing VPF zones will be automatically converted to ACL zones at that time.

New Features in 1.5.1

Version 1.5.1.04, and later, adds the following features:

- **SCSI Probe Enable/Disable** – Enables or disables nameserver device probe for FC4 descriptors. This can be configured on a per-port basis in CLish via the DeviceScanEnable parameter in “set config port” from “config edit” mode.
- **Force Offline RSCNs Immediately** – Allows configuration of RSCN delivery for port offlines. Default behavior is to delay a minimum of 200msec before a RSCN is sent when a port goes offline. To configure this to send that RSCN immediately when a port goes offline, set ForceOfflineRSCN to True in the CLish “set config port” from “config edit” mode.
- **SNMP V1 Trap Support** – Prior releases support V2 traps. This release adds support for V1 traps as well. The trap version is specified for each trap address. To select the version, set trapVersion in the CLish “set setup snmp” command.
- **SNMP Proxy Disable** – This release adds the ability to turn off in-band SNMP proxy via the ProxyEnabled parameter in the CLish “set setup snmp” command.
- **Ping from Command Line Interface (CLI)** – Added the ability to send an ICMP ECHO request to another host or switch. From CLish, run “ping <IP address>”.
- **Date/Time without Reset** – In previous releases, you would have to reset the switch after changing the date. With this release, the switch reads the hardware clock automatically after a date change.
- **IP Configuration** – Change the order the IP info is entered for “set setup system”. Don’t prompt for IP address, netmask, or gateway if the discovery method isn’t “Static”. Disable some of the static IP fields depending on the network discovery protocol selected.

Documentation

Installation, setup and management of the SANbox2 switch are described in the following manuals. These manuals are available on the distribution CD or on-line at support@qlogic.com.

- SANbox2-64 Fibre Channel Switch Installation Guide, 59043-01 B
- SANBox2-64 Switch Management User's Guide 59048-01 B
- SANbox2-8c Fibre Channel Switch Installation Guide 59042-02 B
- SANbox2-16 Fibre Channel Switch Installation Guide 59021-05 B
- SANbox2-8c/16 Switch Management User's Guide 59022-05 B
- SANbox2 Simple Network Management Protocol Reference Guide 59047-00 A
- SANbox2-64 Field Replaceable Unit Installation Guide 59049-01 A
- SANbox2-64 Chassis Replacement Guide 59050-00 A
- SANbox2-64 Rack Mounting Guide 59051-00 A

The following manual is available on-line at www.qlogic.com/interopguide:

- QLogic Switch Interoperability Guide SN0135524-00 A

Installing the Firmware via telnet

The following procedure should be used, to download Version 1.5.1.04:

After downloading new firmware from QLogic, change directory to the directory where the new firmware is located.

ftp to the switch

login using username images, password images

enter the following commands:

> bin

> put fullimage.XXX (where XXX represents the version of the firmware)

> quit

telnet to the switch

login using username: admin, password: password

enter the following commands:

> admin start

> image unpack fullimage.XXX

reset the switch (resetting switch will disrupt traffic)

Interoperability

- SANbox – The SANbox2 switch is fully interoperable with the SANbox 1Gb switch when running in E_Port mode. Interoperation requires firmware release version 4.01.45 or later, for the SANbox. To obtain this release, contact QLogic Technical Support. Contact information is listed at the end of these release notes.
- MKII - The SANbox2 switch does not support the legacy T_Port mode and therefore does not interoperate with MKII switches.
- Brocade and McData interoperability - The following switches and firmware levels were specifically tested with this release:
 - Brocade Silkworm 2400/2800; Firmware supported: 2.4.1c, 2.6.0d
 - Brocade Silkworm 3200/3800; Firmware supported: 3.0.2a, 3.0.2c and 3.0.2g
 - McData ES-3232; Firmware supported: 04.01.00.12, 05.00.00.55

Known Issues with Brocade/SANbox2 operation that are not documented in the Interoperability Guide (see note below):

- In a mixed QLogic, McData, Brocade fabric, using McData's GUI to take the McData switch offline/online sometimes caused an ISL failure between QLogic SANbox2 and Brocade switches. When this does occur, the Brocade loop initialization code is looping forever.

Known Issues with McData/SANbox2 operation that are not documented in the Interoperability Guide (see note below):

- McData's SANpilot, and command line interface, do not display devices attached with QLogic switch. A workaround is to use their EFCM tool.

Note: For all other information regarding QLogic interoperability with Brocade, McData, Cisco and Inrange switches, including:

- configuration information,
- feature limitations in mixed configuration and
- known issues,

consult the QLogic Switch Interoperability Guide listed in the Documentation section of these release notes.

Problems corrected in 1.5.1

Problem No.	Description
5949	There are some situations where multiple SNMP change traps are being sent when their values have not changed.
6255	TL does not work in conjunction with VPF hard zoning. For example, if you have zones, one containing all TL-port devices and a second containing all GL-ports, zoned by domain/port, all will work until the zone with the GL-ports is set to be a VPF zone. The TL-port devices can no longer access each other. To recover, change the zones to soft zones.
6261	Set a FL port to diagnostic state, then offline/online. Unplug the device and the LED stays on. Replug the FL port, the FL port cannot log back into the same port. To recover, reset the port.
6299	When unplugging cable from host, switch port LED remains on and name server still thinks the host is still connected. This is an intermittent problem. To recover, plug/unplug the cable.
6323	If you change port speed from auto-negotiate to 2Gb fixed, plug in a 2Gb JBOD, the port will not log in. You can recover by setting the port to auto-negotiate and resetting the port.
6353	When using a 2Gb JBOD, if you fix the port speed at 2Gb and change the port type from FL to GL, the port will not log in and the LED will flash. This can be avoided by using auto negotiation speed instead of fixed speed. You can recover from this by resetting the port.
6361	With either a TL or FL port, if you transition from auto negotiation speed to 2Gb fixed speed and then unplug the cable, the LED will stay on. You can recover from this by resetting the port.

Known issues

Problem No.	Description
4200	After activating a large zoneset, the CLIsh "zoning list" command did not list all zoning information. This is a Windows only issue with the default telnet application. A 3 rd party telnet application is recommended on a Windows platform. If you use the default telnet and it appears hung when you first open the session, "set term vt100" at the telnet prompt will resolve this issue.
4308	In a SANbox2/SANbox 1Gb/Brocade/Mcdata mesh configuration, if you have a JN1 initiator in loop mode and assign the same domain ID to all switches and bring all of them online, the JN1 initiator does not log back into the same port on SANbox2. This is not a switch problem. If you do not set the JN1 to loop only mode, this problem is avoided.
6360	On a HDS9960 2Gb device, changing the port speed to 1Gb and then to auto-negotiate causes the port to stay at 1Gb. Traffic is not interrupted, but is only running at 1Gb speed. Reset the port and set to auto-negotiate to recover.
6528	After a SANbox2-64 hotswap insert or replace operation, donor ports, used for extended distance applications, do not continue to provide the port assigned credits. An alarm is issued and the donor port is downed.
6529	In CLIsh, "show port xx" does not display correct values for most of the top half of the display when "xx" is less than 10. If "xx" is 10 or greater, the values displayed are correct.

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