



# QD Release Notes Lancaster 08.25.xx.00

<b>Product</b>	Firmware Version: 08.25.13.00
<b>Date</b>	October 2017

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## Introduction

StorNext QD7000 firmware is shipped as a bundle from Quantum. When updating to the 08.25.13.00 controller firmware, it is necessary to use SANtricity version 11.30 or later.

**Note:** The Lancaster 08.25.13.00 controller firmware is for the Soyuz controllers in the QD7000 systems only.

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**Caution:** Do not install the Lancaster 08.25.13.00 controller firmware on the Pikes Peak controllers in the QD6000, QS1200, and QS2400 systems.

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## Purpose for This Release

Release 08.25.13.00 is the latest firmware release and is a maintenance release. This release corrects a number of known firmware issues.

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**Note:** Refer to SANtricity Storage Manager 11.30 Upgrade Guide (P/N: 6-68575-01 Rev A) for information about how to upgrade storage management software, controller firmware and NVSRAM, and ESM firmware in your storage arrays.

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## Resolved Issues

This section describes the issues that were fixed in the following releases:

- [Fixes in Build 08.25.13.00](#)
- [Fixes in Build 08.25.09.00](#)
- [Fixes in Build 08.25.08.00](#)
- [Fixes in Build 08.25.06.00](#)

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### Fixes in Build 08.25.13.00

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Fixes in this build include:

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#### Issue Description for 08.25.13.00

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Tray location LED, "Blink", will turn on but no off once acknowledged

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Assertion failed: file rpaCB3Job.cc, line 5467

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Ancient IO on write to full Thin Provisioned Volume

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Controller hit exception when accessing a disconnected iscsi session.

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Controller hit exception while finding page allocated as part ARVM environment

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Write Cache disabled due to Bid and BMgr disagreement on battery state

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Cache disabled due to unexpected battery learn cycle during Kingston upgrade

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**Issue Description for 08.25.13.00**

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Ancient IO on E2700 with Thin Volumes, PIT views, and ARVM

Ancient IO on XCOPY operation

Cobra-F Drive returns corruption data on 1/17/6 Check condition:Mitigation

Disabling IPv4 and IPv6 on single E-Series host port causes outage in VMware environments

FRCs Fails Due to PI Errors After Adding New SSD

iSCSI ping requests to ARVM config timing out and triggering IOC Dumps

16Gb FC dump captures only 1024 entries from the hardware queues

Media scan has never restarted after reconstruction

Battery is reporting below 50% charge level due to invalid battery parameters and disabling cache

Controller hit ancient IO, the IO is struck at LLD

Exception during arvm getSyncTimeLeft

PANIC: newDirectory: Attempt to overwrite a level 2 directory:172196451676852

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**Fixes in Build  
08.25.09.00**

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Fixes in this build include:

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**Issue Description for 08.25.09.00**

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PI GUARD ERROR hit during ODFU with STIO

Missing last digit on service tag for MD 34xx 36xx 38xx

Ancient IO on Full Thin Volume with SSD Read Cache

Ancient IO during SCSI unmap

ARVM Mirror Failed due to Deltalog L0 active blocks mismatch after DVEs followed by volume ownership

Battery reports half capacity during learn cycle or recovery

Running device reset results in controller restart due to ancient IO (Soyuz & Titan)

PANIC: Out of keyed BSEM structures.

Track Exclusive Ops in vdmShowExclOpAgents for StateCapture

Decrease frequency of OCA on Tahoe and Snowmass

Sudden Capacity Drop of BBU observed on Snowmass & Tahoe

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**Fixes in Build  
08.25.08.00**

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Fixes in this build include:

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**Issue Description for 08.25.08.00**

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“MptAdapter::clearDoorbell” occurred during controller reset.

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LUN initialization time estimates are significantly inaccurate

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Ancient IO due to a task management request in the infiniband driver

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Device processing Router Solicitations failed

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FlexArray - upgrade from 08.20 to 08.25 on 5600 controllers causes FAS box to Panic due to DOMI XDR failure on 5600

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Disk pool stuck in degraded state following 2+ disk failure.

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rescribe multifault fails with reservation conflict write error

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Data inconsistency on DDP volume during Format Unit and controller power cycle

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SANtricity Windows CLI client misleading error message is displayed with non-Admin permissions

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Auto Contingent Allegiance (ACA) not being cleared by LUN Reset.

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Undocumented text change for the SMagent service on SANtricity release 11.25

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CFW should not attempt a second copy/fail if one is already running

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Brocade Switch with RDP enabled can cause IOC logout all ports and result in HIC failures and PI errors

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Missing optional parameter for support Data collection in script editor.

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Evacuation Failure and reboot leads to Data Corruption, DBM Piece Record Issue and Lockdown

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Copy-back stuck in an indefinite loop

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Drive Copy and Drive Power Cycle coincided

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Performance commands issued via CLI causing memory leak

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Thin volume's default setting is 'media scan disabled'

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Timeouts, controller reboots and ARVM errors when SSD cache is enabled

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**Fixes in Build  
08.25.06.00**

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Fixes in this build include:

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**Issue Description for 08.25.06.00**

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DACStore downgrade across minor revisions locks out drives.

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Ancient IO on sVmotion with FRC and Synchronous Mirroring active.

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Unreadable sectors due to PI errors after starting IO to a volume in a pool.

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QLogic FC FW code drop 7.05.00

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MEL x2047 continually being reported when media scan started during PI being disabled on

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PANIC: Drive::completeIntendedAction caught:  
symrpc::InternalErrorException during drive power cycle

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During 3x fault test, fastIO timeout reported on a bunch of Toshiba drives.

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EEL: Could not allocate eelHdr for ioid: 0x35918952

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Multiple iovCopy panics due to NULL source parameter lead to cache recovery panics and I

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WBC forcibly disabled on soyuz with STIO running

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Data Abort / Page Fault triggered during the capture of ionShow,99

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Controller panic during CFW upgrade "PANIC: Keyed BSEM give done twice without take."

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State capture starves the FC driver from updating Buffer to Buffer in the fabric switch

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Full core-dump was not generate on PP

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Watchdog timeout during ASUP collection in fcmAnalyze

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Assertion on ctr A and page fault on ctr B reported on Titan iSCSI using 98.20.07.06 af

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PCI SERR due to bad address during evfShowVol execution

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DCE after DCR on TH results in ASSERT: Assertion failed: isExtentFree(i), file vdmCrushDrive.cc, line 416

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DPA False hit with drives from mixed vendors

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AIO during CFW download on Titan

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Hilda chip reboot occurs during straight IO on TH array

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IO time outs and Hilda heart beat failure occurs during SOFD download

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After a drive recovery procedure the drive is marked incompatible.

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Shell command showSrpInfo reports incorrect "No of active RDMA channels"

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Unresponsive drive after power cycle.

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Titan controller B doesnt show up in MSW after single swap

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**Issue Description for 08.25.06.00**

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Exception: Page Fault in objVerifyMagicRead

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Page Fault in checkForAutoAbort on Pikes Peak with Infiniband HIC

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Page Fault in  
ZN3fcm18FlashCacheROVolume20cacheRead3\_LockFCCBsEP3buf+0x119  
during VM cloning with XCOPY

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Encountered invalid section record at addr:0xa00 - during qemuPrep  
execution for 771333 ctrl B core

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PANIC: smsInsertIntoTree, on Tahoe during Volume expansion (DVE)

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DOM analysis does not report correctly for various drives

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Panic when hash reference is beyond the raw region

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VIOS CCG defect for rebootReason/rebootReasonExtra update

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CAS CCG defect for rebootReason/rebootReasonExtra update

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IOI2 CCG defect for rebootReason/rebootReasonExtra update

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Diag CCG defect for rebootReason/rebootReasonExtra update

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IOS CCG defect for rebootReason/rebootReasonExtra update

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Foundations CCG defect for rebootReason/rebootReasonExtra update

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Platforms CCG defect for rebootReason/rebootReasonExtra update

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PANIC ERROR: Unknown Abort type

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VCFG CCG defect for rebootReason/rebootReasonExtra update

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Performance drops 90% for 30 seconds when TSCN runs

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ASSERT: Assertion failed: false, file qlfclExch.cc, line 1791

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PANIC: DSM: In 'buildNewDrive', unrecognized block size (0 bytes)

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ARVM Domi failure after ~2 hrs into CFDF

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Controller unable to redistribute paths

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RHEL 6.7 IB SY Array iSCSI IPs become unpingable after sometime

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WDTO resulting in controller reboots

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Disk Pool does not start Reconstruction when a new drive replaces a missing  
but optim

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Drop the charge level for a battery cell by 100 mv to fix COV

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Data overrun and PI guard error when cache configuration changes on an  
ODX Write Using Block Zero Token

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Bundle the DCM 4.9E release firmware into RAIDCore WembleyDCM.bin

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iopTrack and ASUP are missing prefetch loading information

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### Issue Description for 08.25.06.00

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PI reftag error on Initiator side on a WRITE

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Master TXN peering failure after DVE of ARVM mirror. Probable Delta log corruption

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PI error seen from shipped IO

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Asynchronous mirror group failed. Remote site had multiple rebooted between Controller

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Check Conditions b/44 on drive side of controller

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Controller deadlock experienced during PR WAL flush.

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75% performance drop observed several times at IBM following drive failure in DDP

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Cam 6.10 SMagent fails to start and register array / sometimes server crash

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"MptAdapter::clearDoorbell" occurred during controller reset.

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## Known Issues

There are no known issues for the following firmware releases:

- 08.25.13.00
- 08.25.09.00
- 08.25.08.00
- 08.25.06.00

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## Contacting Quantum

More information about this product is available on the Service and Support website at <http://www.quantum.com/ServiceandSupport/Index.aspx>. The Service and Support Website contains a collection of information, including answers to frequently asked questions (FAQs). You can also access software, firmware, and drivers through this site.

For further assistance, or if training is desired, contact the Quantum Customer Support Center:

<b>United States</b>	1-800-284-5101 (toll free) +1-720-249-5700
<b>EMEA</b>	+800-7826-8888 (toll free) +49-6131-3241-1164
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