Quantum

Quantum Block Storage Platform (QBSP) 2.3.1 Release Notes

Original Product/Software Release Date	November, 2023

Content

About QBSP 2.3.1 Software

This release notes document only supports QBSP version 2.3.1 for your F-Series (F2100) system.

> ℹ **Note:** Upgrades have only been tested from QBSP version 2.2.0 to QBSP version 2.3.1. Quantum strongly recommends you upgrade your system to QBSP version 2.2.0 before you upgrade to QBSP version 2.3.1.

Enhancements and New Features in QBSP 2.3.1

Beginning with QBSP version 2.3.1, you can configure Self Encrypting Drive (SED) functionality and enable locking on your Quantum F-Series (F2100) product. To fully take advantage of SED, your hardware and software configuration must meet the following requirements:

- Your storage node must be a Quantum F-Series (F2100) running QBSP software version 2.3.1 or later.

- This applies to systems that are newly manufactured with QBSP version 2.3.1, or upgraded to QBSP version 2.3.1 or later.

- You cannot enable SED functionality on other Quantum F-Series products (for example, the F1000, or the F2000); SED is not supported on these products.

- The version of the BIOS on both of your controllers must be ATP2.02.09 or later.

Fixed Issues in QBSP 2.3.1

Issue	Description
BLK-8636	F2100 AMI BIOS (2019) cannot disable password prompts for locked SED OPAL2 storage (non-boot) drives.
BLK-9456	UUI: After factory wipe PXE install on F2100/F4100, UI shows array as unconfigured state, but volumes are present.
BLK-9700	Don't allow factory_reset if SED is enabled.
BLK-9762	Come up with better mechanism for handling CBA "dev" vs "prod" setting.
BLK-9769	QCSP UI: Improve VLAN management on storage networks page.
BLK-9788	Examine the current H-Series SED support and determine what needs to be done for F-Series.
BLK-9789	Change "CBA" to be pointing at "prod" instead of "dev".

Issue	Description
BLK-9796	Update F2100 BIOS Version to 'ATP2.02.09'.
BLK-9797	Enable F2100 SED Support.
BLK-9799	QBSP Web UI: Use QSA 'sed_capable' Attribute to Enable/Disable SED Screen.
BLK-9800	QBSP Web UI: SED Configuration Page Leaves "Apply" Button Enabled.

Known Issues in QBSP 2.3.1

Issue	Description	Workaround
BLK-7870	In certain scenarios you might see **Failed Resource Actions** in the cluster status output: ``` Failed Resource Actions: * p_fence_sbd_start_0 on d501e2-1 'unknown error' (1): call=80, status=Error, exitreason='', last-rc-change='Thu May 19 18:31:47 2022', queued=0ms, exec=14282ms ``` • For H-Series products, the message might occur if power is abruptly removed (for example, a non-graceful power off) for a controller, or if a controller is "hot removed" from the chassis.	To workaround this issue, you must first resolve the root problem. Some examples include: • Add a missing controller. • Power on the controller. After you resolve the root problem, then you can use the **cluster_cleanup** command in the QBSP shell to remove the message.
BLK-8744	Beginning with QBSP 2.2, the functionality to create a Logical Volume (LV) using the **% Available** UI option is no longer available.	Use the QBSP shell to create a Logical Volume using the **%AVAIL** and **%TOTAL** percentage size options.
BLK-9190	You might observe the following error in the UI: ``` rpc_agent not responding ```	To workaround this issue, execute the following command on both controllers using the **root** shell (not the QBSP shell interface command): ``` rm -rf /mnt/data/prometheus; sleep 2; /etc/rc.d/rc.prometheus start ```

Issue	Description	Workaround
BLK-9413	You cannot create a StorNext file system using a JBOD volume of a StorNext layout and its default labeling.	You must rescan a newly created QBSP logical volumes in your StorNext environment prior to creating a file system, or expansion using a new LUN. You can perform the rescan using the GUI, or the CLI. **Do the following in the GUI** In the **Disk Assignment** section, click **Scan** (see Add a File System > Manual Configuration > Stripe Groups/Disk Management Fields). **Do the following in the CLI** After you add a volume in the QBSP GUI, enter the following CLI command: <pre>cvadmin -e 'disks refresh'</pre>

BLK-9617	If you attempt to power off a node using the QBSP shell command **power_off**, you might receive an error:
	
	<pre>#> power_off
	
	Powering off this controller may disrupt I/O! Are you sure you want to continue (yes/no)? yes
	
	EXCEPTION of type 'AttributeError' occurred with message: 'NoneType' object has no attribute 'PMGetNodeName'
	
	To enable full traceback, run the following command: 'set debug true'</pre>
		To workaround this issue, exit to the root shell (**rootsh**) and execute the standard Linux command **poweroff**.

BLK-9673	When you remove a drive from your JBOD or RBOD, and then use the UI to attach a drive, the beacon light is enabled (turned ON).	To workaround this issue, use the UI to disable (turn OFF) the beacon light.

Issue	Description	Workaround
BLK-9694	When you perform a controller fail-over and fail-back, the beacon light is enabled (turned ON) on half of the drives in your RAID array.	To workaround this issue, use the UI to disable (turn OFF) the beacon light.

BLK-9732	If you already configured a JBOD, and then add an additional (new) JBOD, the UUI might display several drives as **Inactive** on the newly created JBOD and the JBOD might appear as **Degraded**.	To workaround this issue, execute the following command:
		
		```/etc/rc.d/rc.qsaws stop;```
		```/etc/rc.d/rc.qsaws start;```

BLK-9733	If your system consists of an RBOD connected to one JBOD using redundant cabling, and you exchange the existing SAS cables with different SAS cables (for example, 28 AWG, 3 m) one at a time, then 12 of your JBOD drives might appears as **Inactive**, the JBOD might appear as **Degraded**, and the status of your cluster might display with errors.	To workaround this issue, reboot both controller A and controller B of your RBOD.

BLK-9734	When you attach a drive, the operation might fail.	To workaround this issue, execute the following QBSP shell commands to power cycle the drive and attach it:
		
		Example
		
		```# power_drive encl03_slot12 off```
		
		```# power_drive encl03_slot12 on```
		
		```# attach_drive auto```

BLK-9783	When an upgrade is in progress (and consequently, a node is offline during the upgrade process), the UUI might display the following error message: ```Qsaws request 'api/1/health' with args {'verbosity': 1, 'include_peers': True} failed. Qsa method 'health' with op_id=node01_6329 timed out waiting for op_lock```	To workaround this issue, wait until the node is online. The UUI error message should not display.

# Contacting Quantum Support

Below is information related to contacting Quantum Support as well as steps to improve your Quantum customer journey.

- Submit a Ticket (Service Request) below
- Use MyQuantum Service Delivery Platform on the next page
- Use Cloud Based Analytics (CBA) on page 8
- Escalate a Case on page 8
- Contact Quantum Sales on page 8

Submit a Ticket (Service Request)

If you need to submit a ticket or speak to Quantum technical support, go to the Support page at https://www.quantum.com/en/service-support/
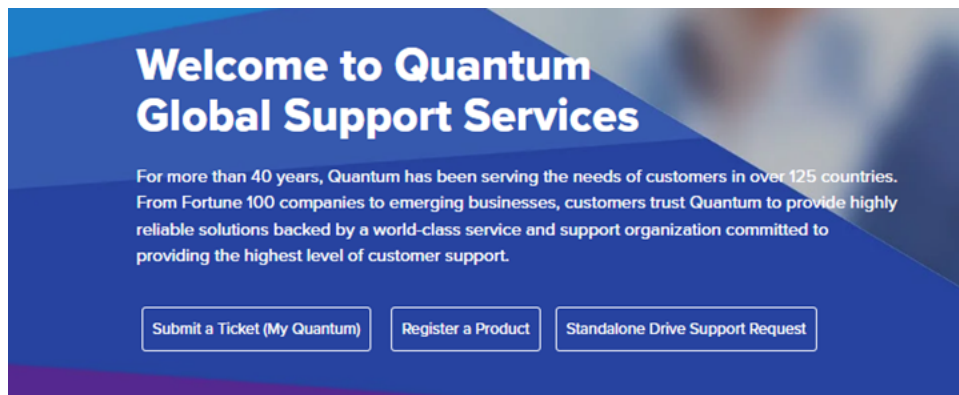

To start the process with Quantum Technical Support, click **Submit a Ticket**. From here, sign in to the MyQuantum Service Delivery Platform or create an account. For more information, refer to the Use MyQuantum Service Delivery Platform on the next page section below.
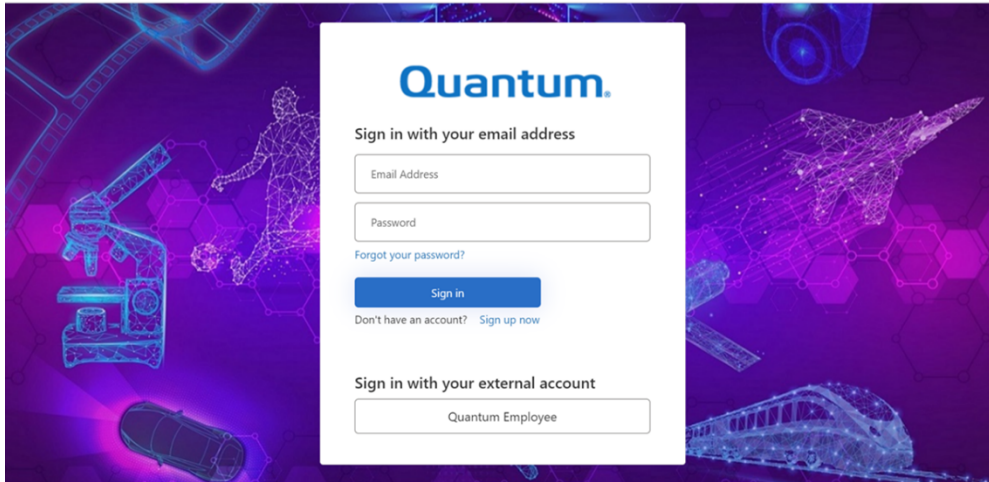
Use MyQuantum Service Delivery Platform

MyQuantum is a single portal for everything Quantum. You can view assets, open support cases, receive real-time updates, and search the Knowledge Base and documentation, all through a secure, online portal.

1. Create an account and log in to the MyQuantum Service Delivery Platform.

2. Register a product on MyQuantum.
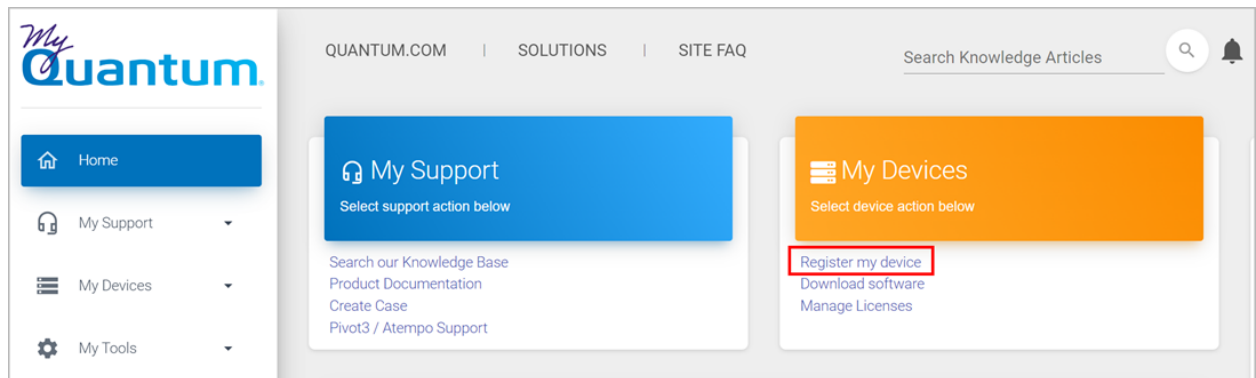
3. Request site access to the Cloud-Based Analytics (CBA) monitoring portal and follow the instructions to set up product(s) to connect to CBA. You can use CBA to monitor Quantum products remotely, from a single dashboard, and Quantum Support can use it to help troubleshoot products more efficiently.

Refer to product documentation for product-specific information related to CBA.

Use Cloud Based Analytics (CBA)

Quantum products are equipped with a Cloud Based Analytics (CBA) agent that can provide log files and snapshots to Quantum CBA servers that are running in the cloud.

CBA enables Quantum systems to collect data regarding system and environment performance. The collected data is bundled and uploaded to the remote CBA server for analysis. You can access Quantum system performance and health results on the CBA dashboard (at https://insight.quantum.com) or through the MyQuantum Service Delivery Platform.

The CBA dashboard displays the analytic results of the uploaded CBA data using flexible charting tools, along with an overall health score of each Quantum system configured for the CBA account.

Escalate a Case

To escalate a case, follow the process documented here: https://www.quantum.com/en/service-support/resources/escalation/

Contact Quantum Sales

https://www.quantum.com/en/company/contact-us/

Quantum.

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter – so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.

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