



XCubeSAN FW 1.4.0 Release Note

Applicable Models:

XS5224D, XS5216D, XS5212D, XS5212S, XS5226D, XS5226S
XS3224D, XS3224S, XS3216D, XS3216S, XS3212D, XS3212S
XS3226D, XS3226S, XS1224D, XS1224S, XS1216D, XS1216S
XS1212D, XS1212S, XS1226D, XS1226S



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This edition applies to QSAN XCubeSAN SANOS (SAN Operating System) Firmware. QSAN believes the information in this publication is accurate as of its publication date. The information is subject to change without notice.

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Release Information

QSAN is pleased to announce the release of **QSAN XCubeSAN** firmware 1.4.0, the latest firmware for the following QSAN SAN products:

Applicable Models: XS5224D, XS5216D, XS5212D, XS5212S, XS5226D, XS5226S, XS3224D, XS3224S, XS3216D, XS3216S, XS3212D, XS3212S, XS3226D, XS3226S, XS1224D, XS1224S, XS1216D, XS1216S, XS1212D, XS1212S, XS1226D, XS1226S

Firmware version: 1.4.0 (20190517_1700)

We are pleased to announce that this firmware provides volume QoS (Quality of Service), advanced disk awareness, large stripe sizes for media editing applications, RESTful API (Application Programming Interface) for customizing your management utilities, and free trial for enabling advanced features, ...etc. To support new functions, the resources will be redistributed. So executing **COLD REBOOT** is necessary after upgrade from firmware 1.3.x to 1.4.0. We strongly recommend that you update the QSAN products to this latest release to ensure the storage system is running with all the latest bug fixes. The simplest way to update is to use the "Update" function in Maintenance. The following are changes since firmware 1.3.6.



CAUTION:

Execute **COLD REBOOT** after upgrade from firmware 1.3.x to 1.4.0. Notice that it **CAN NOT** be downgrade to firmware 1.3.x after upgrade to 1.4.0.

New Features

- Provide trial license process to enable advanced features in minutes. (18327)



INFORMATION:

Start a FREE trial at https://www.qsan.com/en/trial_license

The trial license page will be available in June, 2019.

- Support more stripe sizes from 64KB to 1,024KB to optimize media editing application. (18664)
- Add event logs when SSD cache start and complete flushing. (18836)
- Simplify thin provisioning policy to reclaim space and read-only volume. (19014)



INFORMATION:

For more information about thin provisioning policy, please refer to the chapter 9.2.3, Thin Provisioning Policies section in the [XCubeSAN SANOS 4.0 User's Manual](#).

- Provide volume QoS(Quality of Service) for workload consolidation. (19216)



INFORMATION:

For more information about volume QoS, please refer to the [QoS White Paper](#).

- Enhance the disk status when disk is migrating or moving. (19447)
- Provide RESTful API (Application Programming Interface) to design your management utilities. (20116)



INFORMATION:

For more operations about RESTful API, please refer to the [RESTful API software manual](#).

- Provides advanced disk awareness to predict the abnormal disk drive with high latency. (20294)



INFORMATION:

For more information about high latency disk warning, please refer to the chapter 8.4.1, 9.3.1, 11.3.2, and 14.5.1, Create a Pool section in the [XCubeSAN SANOS 4.0 User's Manual](#).

- Enhance event logs for SSD cache and auto tiering licenses. (20469)
- Enhance the status of PSU hardware monitoring in dashboard. (20509)

Enhancements

- Enhance the performance of RAID EE with one spare disk or status idle. (19019)
- Enhance the format disk issue in Linux. (20244)
- Enhance the volume performance page in performance monitor. (20975, 21080)
- Enhance the event logs after C2F (Cache-to-Flash) is completed and then the system starts. (21119)
- Enhance the email notification. (21360)

Limitations

None.

Companion Software

- XFinder V1.1.1 [Download](#)
- Expansion Units: XD5300 Series FW 1.0.2