

StorNext® FX2

Installation and Upgrade Instructions

Quantum.

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Introduction

StorNext FX is a client-only version of StorNext software that is licensed to run with an Apple Xsan metadata controller (MDC).

This software is fully interoperable and compatible with Apple Xsan. For additional compatibility information, refer to the Quantum Web site:

<http://www.quantum.com/ServiceandSupport/CompatibilityGuides/Index.aspx>

From this page you can view the following:

- [Warranty Information](#)
- [Installation and Configuration](#)
- [Product Comparison Tool](#)
- [Product Registration](#)
- [Compatibility Guides](#)
- [Multi-Vendor Support](#)

Registering StorNext FX

You must register StorNext FX at least 24 hours before requesting a license. You can register your copy of StorNext FX online at:

<http://prodreg.quantum.treehousei.com/Login.aspx>

Obtaining an StorNext FX License

Use the following procedure to obtain a StorNext FX license.

Note: If you are upgrading from a previous version of StorNext FX, after the upgrade your StorNext FX license remains valid. There is no need to request a new license unless your system ID changes.

- 1 Log on to the Apple Xsan MDC (metadata controller).
- 2 Change to the following directory by typing:
cd /Library/Filesystems/Xsan/bin
- 3 Obtain the CVFS ID for the MDC by typing **sudo cvfsid**.
- 4 When you are prompted for the **root** password, type your system's **root** password. (You can obtain this password from your system administrator.) Output similar to the following displays: **B0D0B10D33 MAC 0 susie**
- 5 To obtain a permanent license, contact the Quantum Technical Assistance Center and give them the following information:
 - The product serial number from the StorNext FX box
 - The number of client machines you want to license
 - The CVFS ID from Steps 3 and 4

Alternatively, you can obtain a license by going to www.quantum.com/swlicense and providing the required information listed in step 5.

After the Quantum Technical Assistance Center receives the above information, a representative will send you a license string. (You will need this license string in the final step of this procedure.)

Note: If you use the temporary license, be sure to obtain a permanent license from Quantum before the 30-day temporary license expires.

Contact the Quantum Technical Assistance Center with the CVFS ID information

- In the USA: 1+800-284-5101 Option 5
- Outside the USA (toll free): 00+800-9999-3822
- Quantum Technical Assistance Center website:
www.quantum.com/OSR

The Quantum Technical Assistance Center will generate a license key file and return it to you.

- 6** Locate and open the **license.dat** file in the **/Library/Filesystems/Xsan/config** directory.
- 7** Place the license key string that was sent to you into the **license.dat** file.

Preparing for Installation

Before installing the Quantum StorNext FX clients on the Apple Xsan MDC, make sure you have the following:

- StorNext Media Kit and license key
- Make sure your StorNext FX clients meet the installation requirements as described in the StorNext FX Release Notes (The release notes are located in the StorNext FX case).
- Verify that the Xsan MDC can mount the Xsan file system and has read/write access.
- Verify that your switch is configured properly to host StorNext FX clients.
- Verify that your HBA is installed and can see the LUNs on the MDC through the SAN.
- Obtain the appropriate Apple Xsan MDC IP address and make sure you have network connectivity.
- Log a service request with Quantum to schedule a date and time for PS phone services. Your serial number is required

Installing the Client

A Product Documentation CD is included in the StorNext FX case. Locate the StorNext FX Installation Guide (*6-00360-12 StorNext Installation Guide*) on the CD for instructions on how to install your specific client.

Activating the License

Use the following procedure to activate the license on your StorNext FX client.

On the Apple Xsan MDC when the new **/Library/Filesystems/Xsan/config/license.dat** file is created, you must restart the Xsan software.

- 1 Reboot the client machine.
- 2 FTP the **/Library/Filesystems/Xsan/config/.auth_secret** file from the Apple Xsan MDC to each Quantum StorNext FX client.

For Windows™:

- Place the **.auth_secret** file under the **C:\Program Files\Stornext\config** directory
- Ensure that the Administrator and SYSTEM user have read access to this file by following the procedure described in [Enabling .auth_secret Read Access \(Windows only\)](#).

For Linux:

- Place the **.auth_secret** file under the **/usr/cvfs/config** directory
 - Ensure that the root account has read access to this file
- 3 Reboot the StorNext FX client.

Enabling .auth_secret Read Access (Windows only)

After you copy the .auth_secret file from the Xsan MDC to a Windows client, you may need to change the permissions on the .auth_secret file by following these steps:

- 1 Navigate to **C:/Program Files/Stornext/config**.
- 2 Right-click on the .auth_secret file and select **Properties**.
- 3 Click the **Security** tab
- 4 Select the **Everyone** Group or user name.
- 5 Enable **Read** permission by checking the **Allow** box. (Note: Fsmppm is able to start if the permission is Read only. It doesn't need the Write permission to start.)
- 6 Click **Apply** to apply your changes.
- 7 Restart StorNext services from **Start > All Programs > StorNext File System** by selecting **Services Stop** and **Services Start**.
- 8 Verify fsmppm activity on the Xsan file system by opening **Start > All Programs > StorNext File System > Client Configuration** and mapping the file system.

Upgrading to StorNext FX 2.2

Use the following instructions to upgrade to StorNext FX 2.2 from a previous version of StorNext FX.

Quantum recommends examining your system configuration settings prior to starting the upgrade. You should also back up all StorNext FX configuration files before proceeding.

Note: HP-UX, Solaris, Irix and AIX platforms are no longer supported for StorNext FX 2.2, so you cannot upgrade these platforms.

- 1 Shut down StorNext FX.
 - For Linux, type: **/etc/init.d/cvfs Fullstop**
 - For Windows, click: **Start > All Programs > StorNext File System** and then select **Stop and Remove File System Services**.
- 2 Back up the **/usr/cvfs/config** directory.
- 3 Verify that the **cvfs** and **fsmpm** processes were stopped.
 - For Linux, type **ps -ef |grep fsmpm** or **-ef |grep cvfs**.
 - For Windows, go to Task Manager > Processes
- 4 Remove the old version of StorNext FX.
 - For Linux, type:
rpm -qa|grep cvfs-client
cvfs-client_<version information>
rpm -ea cvfs-client_<version information>
 - For Windows, click: **Start > Control Panel > Add/Remove Programs**, and then select **StorNext File System**.

- 5 Install the upgrade version of StorNext FX. Follow the installation instructions for your operating system as described in the *StorNext Installation Guide*.
- 6 Restore the backup files ([step 2](#)) in the `/usr/cvfs/config` directory.
- 7 Reboot the system.

Note: After performing an upgrade you must verify the `.auth_secret` files against the Xsan MDC's `.auth_secret` file.

Verifying Access to Xsan File Systems

Use the following procedures to verify access to the Xsan file systems.

For Linux Clients

Follow this procedure to verify Xsan access for Linux clients.

- 1 Type `cvadmin -e select in /usr/cvfs/bin` directory type.

Output similar to the following displays:

Select FSM “none”

List FSS

File System Services (* indicates service is in control of FS):

1>*Xsan1[0] located on pan:33355 (pid 7484)

2>*Xsan2[0] located on pan:33355 (pid 7485)

For Windows Clients

Follow this procedure to verify Xsan access for Windows clients.

Type `cvadmin -e select` in `C:/Program Files/Stornext/bin/`

OR

- 1 Click **Start > All Programs > File System Services > Client Configuration**
- 2 Look at the **Drive Mapping** tab and verify that the file system appears on the **Drive Map** pull down.

Related Documentation

The following StorNext documents are currently available:

Document Number	Document Title
6-00360	<i>StorNext Installation Guide</i>
6-01658	<i>StorNext User's Guide</i>
6-01376	<i>StorNext File System Tuning Guide</i>

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Notes