



How to Upgrade to the Latest Version of Sanbolic® Melio™ 2010 (v3.1.40)

Tech Note



About this Tech Note

This tech note describes the recommended procedures for upgrading Sanbolic SAN software to the latest release – **Melio 2010**. Sanbolic strongly encourages administrators read through the entire tech note *prior* to commencing with the upgrade process.

If you have any questions after reading through the instructions in this tech note, please contact Sanbolic Technical Support at 617-402-2029 or support@sanbolic.com.

Notes

- Sanbolic recommends administrators read the system requirements and best practices in the first section of the Melio 2010 Users Guide *before* upgrading to Melio 2010.

- Melio 2010 supports the following operating systems:
 - Windows Server 2003 R1 and R2, 64-bit
 - Windows Server 2008 R1, 32-bit and 64-bit
 - Windows Server 2008 R2, 64-bit

- Melio 2010 does *not* support 32-bit versions of Windows Server 2003. Do not attempt to install Melio 2010 on 32-bit versions of Windows Server 2003.

- Prior to commencing with the upgrade process, all data stored on Melio volumes *must* be copied to an NTFS volume for backup purposes.

- During the upgrade process, the layout of the Melio file system is modified to support the new features and functions provided by the new version. Since this process may take a considerable amount of time (approximately 1 hour per TB of data), Sanbolic *strongly* recommends administrators schedule maintenance windows that allow enough time for the upgrade process to complete before I/O operations resume against the updated volume(s).

Recommended Upgrade Procedures

Important: Please note that you can **NOT** run different versions of Melio FS on servers participating in the same Melio cluster. This is due to the difference in the layout of the file system between versions. Once a server running the new version of Melio FS accesses the shared volume, the layout of the file system will automatically change to accommodate for updates to the file system, rendering the volume unusable by any other server running an older version of Melio FS. Hence, the upgrade process **MUST** be performed on all servers participating in a Melio cluster at the same time.

If you are currently using a prior version of Melio 2010 (v3.1.x), please follow the instructions below to upgrade to the latest version of Melio 2010 (v3.1.40).

Upgrading from a prior version of Melio 2010 (v3.1.x) to the latest version of Melio 2010 (v3.1.40)

Please note, performing the steps outlined below requires a maintenance window in which **no** I/O operations are conducted against the Melio volume(s).

1. Copy all files on the Melio volume to an NTFS volume for backup purposes.
2. Stop all I/O activity against the Melio volume.
3. Open the **Add/Remove Programs** applet on each server participating in the Melio cluster and uninstall all prior components of Melio 2010 (i.e., FilerScaler, AppCluster, SILM, LaScala, and Melio FS – in this order.) **Note:** When prompted to restart after removing LaScala, select the option to “Restart later” and proceed to uninstall Melio FS.
4. Reboot all servers in the cluster.
5. Run the Setup program to install **Melio 2010** on each server.
6. When prompted to select an interface for Melio FS, make sure to select the interface connected to a network dedicated for Melio FS cluster administration traffic and click “**Next**” to continue.
7. When prompted to select “Trial” or “Full” mode, select “**Full**” mode.
8. Enter your license information, including the username, company and license key (one key per server) and click “**Next**” to continue.
9. After **Melio 2010** has been installed, open the Melio Configuration utility (*Start > All Programs > Sanbolic > Melio Configuration*) and click “**Network**” on the left-hand side of the utility to confirm that the IP address assigned to Melio FS in Step #6 is correct.
10. Open **My Computer** on each server to confirm that each server has access to all folders and files on the updated Melio volume.
11. Perform several read/write tests to confirm shared access to the updated Melio volume from all servers participating in the Melio cluster.

If you are currently using Melio FS 2009 (v2.4.x), please follow the instructions provided below to upgrade to the latest version of Melio 2010 (v3.1.40).

Upgrading from Melio FS 2009 (v2.4.x) to the latest version of Melio 2010 (v3.1.40)

Please note, performing the steps outlined below requires a maintenance window in which **no** I/O operations are conducted against the Melio volume(s).

1. Copy all files on the Melio volume to an NTFS volume for backup purposes.
2. Stop all I/O activity against the Melio volume.
3. Open the **Add/Remove Programs** applet on each server participating in the Melio cluster and uninstall Melio FS v2.4.x.
4. Reboot the servers.
5. Run the Setup program to install **Melio 2010** on each server. When prompted to select the interface for cluster administration traffic, select the interface connected to a network dedicated for Melio FS cluster administration traffic and click "**Next**" to continue.
6. When prompted to select "Trial" or "Full" mode, select "**Full**" mode.
7. Enter your license information, including the username, company and license key (one key per server) and click "**Next**" to continue.
8. After **Melio 2010** has been installed, open the Melio Configuration utility (*Start > All Programs > Sanbolic > Melio Configuration*) and click "**Network**" on the left-hand side of the utility to confirm that the IP address assigned to Melio FS in Step #5 is correct.
9. Open **My Computer** on each server to confirm that each server has access all folders and files on the updated Melio volume.

Note: *The Melio volume may not be immediately accessible as the update to the layout of the file system may take some time. Once the update has completed, the volume will become accessible.*

10. Perform several read/write tests to confirm shared access to the updated Melio volume from all servers participating in the Melio cluster.

Important: Due to the number of changes made to the layout of the file system between versions of Melio FS, direct upgrades of Melio FS are **only** supported between consecutive versions. This means you **can** upgrade directly from v2.3.x to v2.4.x and from v2.4.x to v3.1.40, but you **cannot** upgrade directly to v3.1.40 from any version prior to v2.4.x. To upgrade to the latest version of Melio 2010 (v3.1.40) from versions prior to v2.4.x, please follow the instructions provided below.

Upgrading from versions prior to Melio FS 2009 (v2.4.x) to the latest version of Melio 2010 (v3.1.40)

Please note, performing the steps outlined below requires a maintenance window in which **no** I/O operations are conducted against the Melio volume(s).

1. Provision a new LUN on your storage array and present it to your servers running Melio.

Note: This step is optional. If you'd prefer, you can reformat the original Melio volume with **Melio 2010** after you have completed the upgrade process (after completing Step #9 below).


It is important to note that reformatting a Melio volume deletes **all** data on the volume.

2. Copy all files on the original Melio volume to an NTFS volume for backup purposes.
3. Stop all I/O activity against the Melio volume.
4. Open the **Add/Remove Programs** applet on each server participating in the Melio cluster and uninstall Melio FS.
5. Reboot the servers.
6. If you are going to use a new LUN, remove the original Melio volume from the servers.
7. Run the Setup program to install **Melio 2010** on each server. When prompted to select the interface for cluster administration traffic, select the interface connected to a network dedicated for Melio FS cluster administration traffic and click "**Next**" to continue.
8. When prompted to select "Trial" or "Full" mode, select "**Full**" mode.
9. Enter your license information, including the username, company and license key (one key per server) and click "**Next**" to continue.
10. After **Melio 2010** has been installed, open the Melio Configuration utility (*Start > All Programs > Sanbolic > Melio Configuration*) and click "**Network**" on the left-hand side of the utility to confirm that the IP address assigned to Melio FS in Step #7 is correct.

Note: To format a new LUN with **Melio 2010**, continue from Step #10.

If you are going to reformat the original Melio volume with **Melio 2010**, reformat the volume by opening **My Computer** on one server, right-clicking on the Melio volume and selecting "Melio format." After the volume has been formatted, proceed to Step #13.

If you are going to reformat the original Melio volume with **Melio 2010** and the original Melio volume was managed by LaScala, launch LaScala (*Start > Programs > Sanbolic > LaScala*), select "**View > Rescan disks**" from the toolbar, right-click on the Melio volume in the upper left window pane and select "**Delete**," click "**Action > Apply Changes**" from the toolbar and then right-click on the volume again and select "**Create Logical Drive**." This will reformat the volume with **Melio 2010**. After the volume has been formatted, proceed to Step #13.

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11. To format a new LUN with **Melio 2010**, launch the LaScala volume manager (*Start > All Programs > Sanbolic > LaScala*), rescan disks (**View > Rescan disks** from the toolbar), right-click on the new LUN that was provisioned in Step #1 and select "**Manage.**" Leave the default values and click "**OK.**"
 12. Once the new LUN is managed, right-click on it and create a new partition. When the partition is created, it will appear in the upper window panes. Click "**Action > Apply Changes**" from the toolbar to apply the changes.
 13. Right-click on the new partition in the upper window pane and select "**Create Logical Drive**" to format the drive with **Melio 2010**.

***Note:** If you would prefer to create a volume set or stripe set comprised of multiple LUNs, please refer to the LaScala Users Guide.*

14. After the volume is formatted, open **My Computer** to access the new Melio volume.
15. Open **My Computer** on all other servers participating in the Melio cluster and perform several read/write tests to confirm shared access to the new Melio volume.
16. Copy all data stored on the backup NTFS volume to the new **Melio 2010** volume.

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