

PowerVault MD3000 – SAS 5/E Adapter WWN Upgrade Procedure

Version 1.0

Introduction

This document will outline the steps required to run the SAS5EADD utility in a PowerVault MD3000 environment. The SAS5EADD utility is capable of reassigning a unique World Wide Name (WWN) on the SAS 5/E Adapter controller. Two scenarios for running the utility are outlined below. Scenario 1 covers the situation in which the PowerVault MD3000 has not yet been configured and is awaiting deployment. Scenario 2 covers the situation in which the PowerVault MD3000 system has already been configured and is in use.

Scenario 1: PowerVault MD3000 System Not Yet Configured

1. Download the SAS5EADD utility from support.dell.com and extract the utility according to the instructions included with the utility. The utility is available in both a bootable floppy format and CD format (.ISO).
2. Insert the bootable media with the utility into the host systems floppy or CD/DVD bay.
3. Reboot the host system and allow it to boot to the SAS5EADD utility. The utility must not be run from within the operating system.
4. The utility will display the new SAS number assigned to the SAS 5/E Adapter(s) in the host system.

NOTE: The updates to all controllers in the system should not take more than 5 minutes to successfully complete.

5. Take note of the newly assigned SAS addresses.
6. Remove the upgrade utility media from the host system and reboot.
7. Proceed with the configuration of the PowerVault MD3000 system as normal.

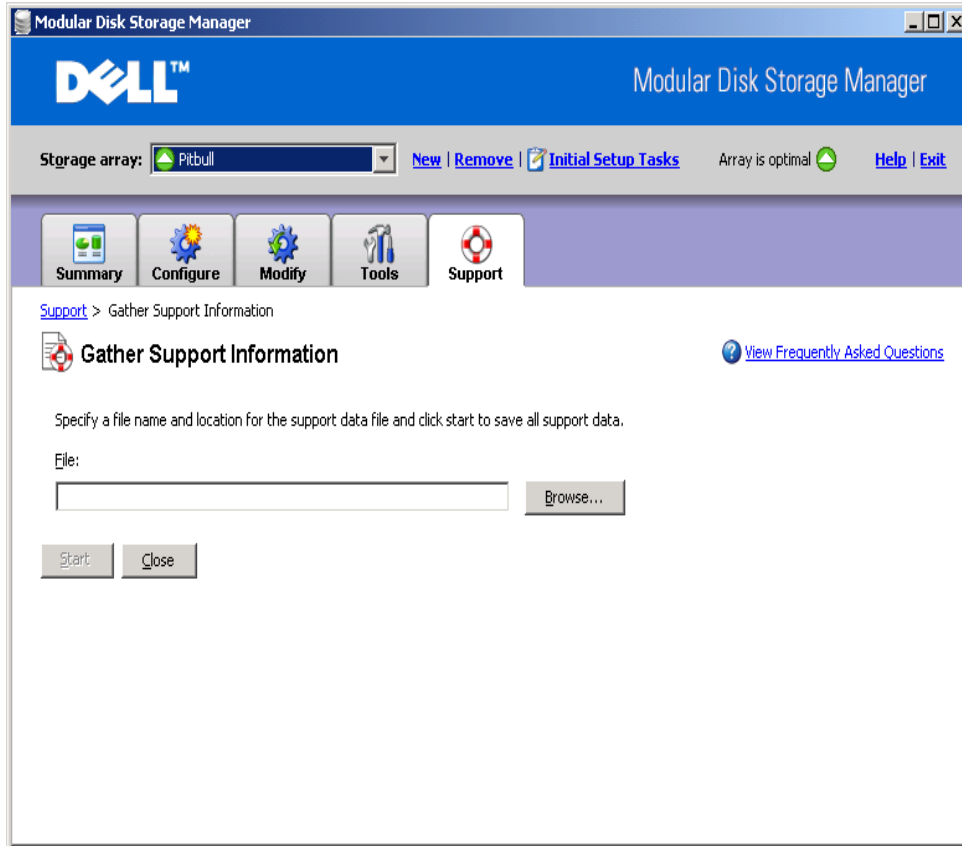
Scenario 2: PowerVault MD3000 System is Configured and Deployed

1. Stop all IO on all virtual disks from all hosts connected to the PowerVault MD3000 system.
2. Backup all data prior to running the update utility.
3. Under Linux operating systems, take note of which volumes are mounted and put them in an un-mounted state.

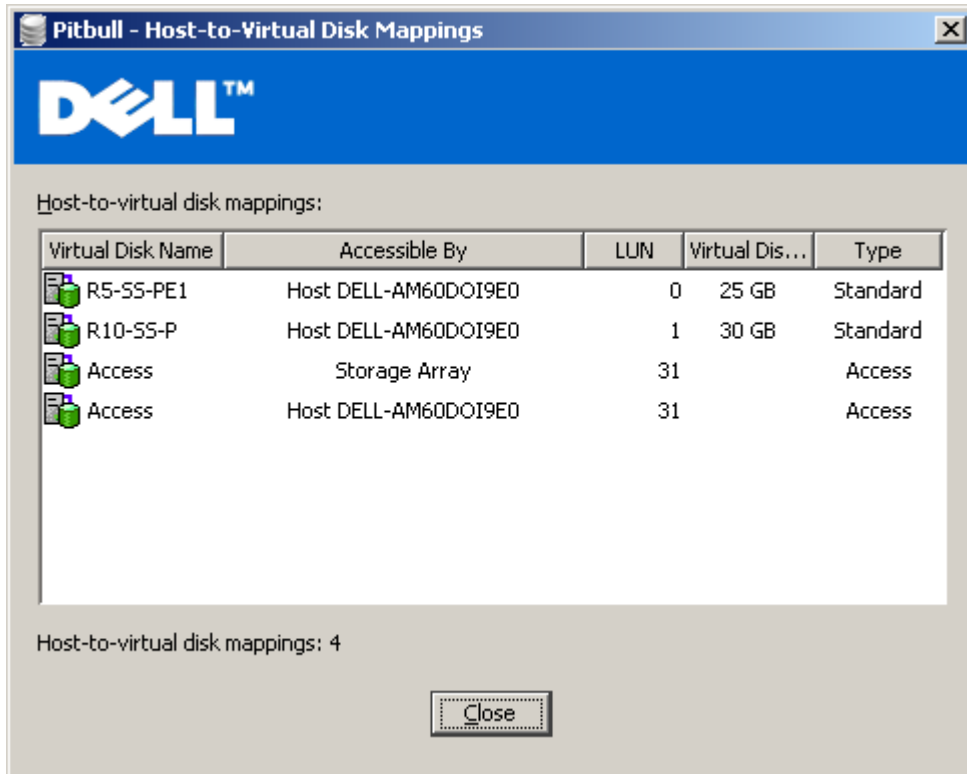
CAUTION: Do not reboot any host systems attached to the Powervault MD3000 array until instructed to do so in the steps outlined below.
Stop all IO on all virtual disks from all hosts connected to MD3000 Array.

4. On a host system that is already configured with the PowerVault MD3000 system launch the **Modular Disk Storage Manager**, browse to the **Support** tab and click the **Gather Support Information** from hosts connected to the MD3000 array.

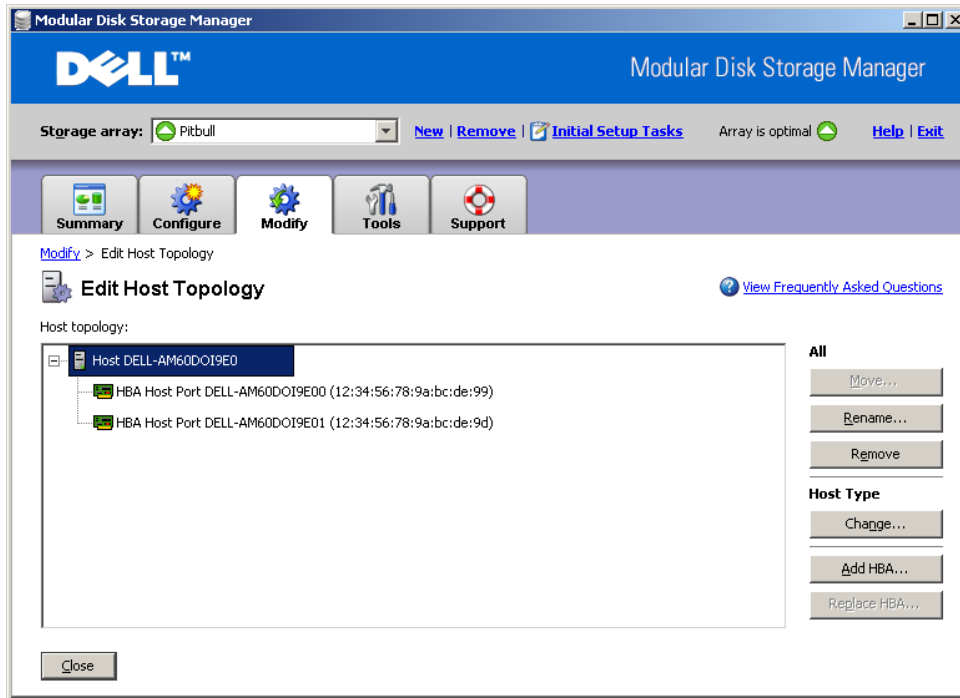
NOTE: The support information creates a Storage Array Profile with current host to virtual disk mappings information for reference.



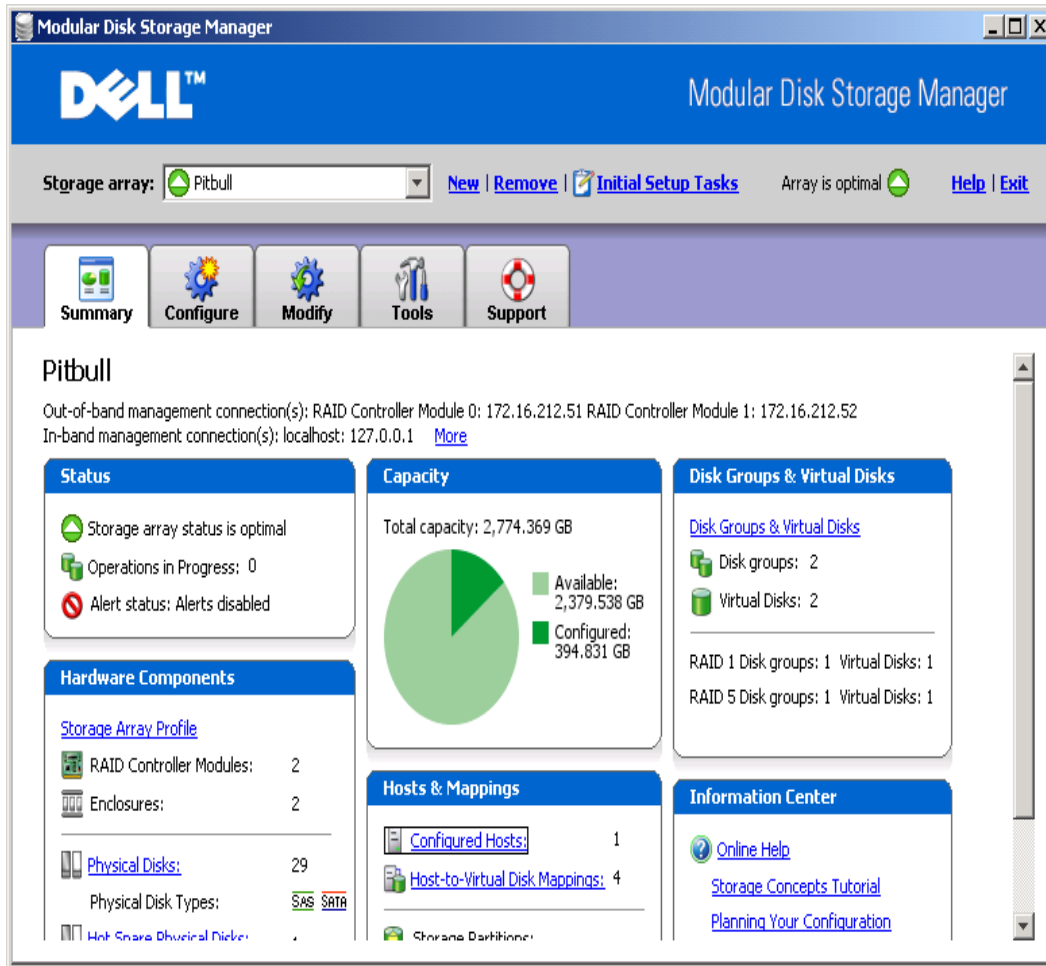
5. From the summary tab of the **Modular Disk Storage Manager**, click the **Host-to-Virtual Disk Mappings** option and note which virtual disks are mapped to the hosts.



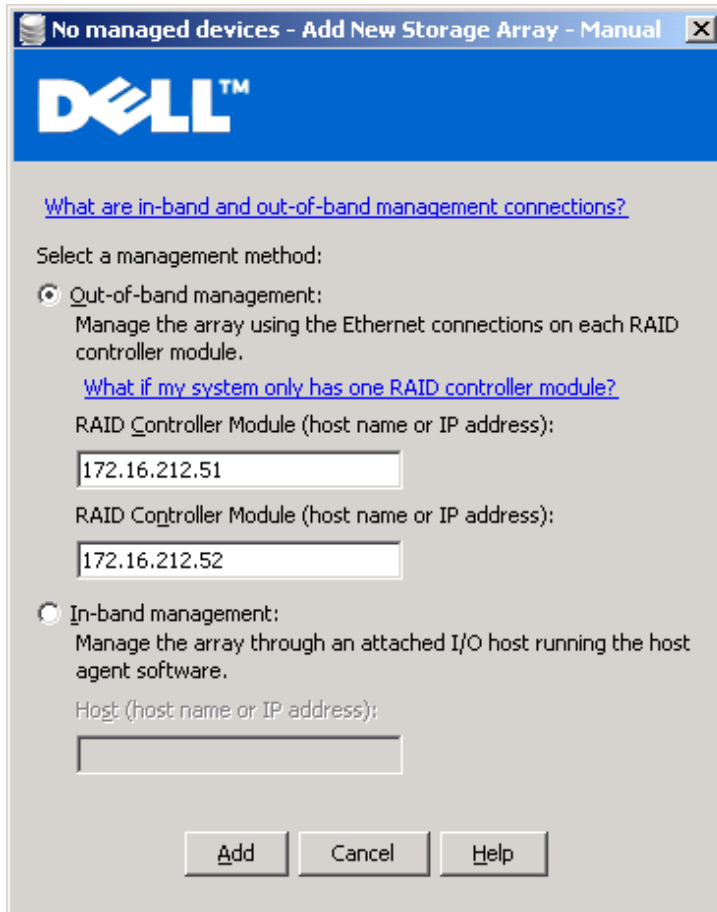
6. Navigate to the **Modify** tab in the **Modular Disk Storage Manager** and choose the **Edit Host Topology** option. Select the host and click the **Remove** button. Select Yes to remove the host access (this process may take several seconds to complete). Repeat this step for each host which has a SAS 5/E Adapter to be updated.



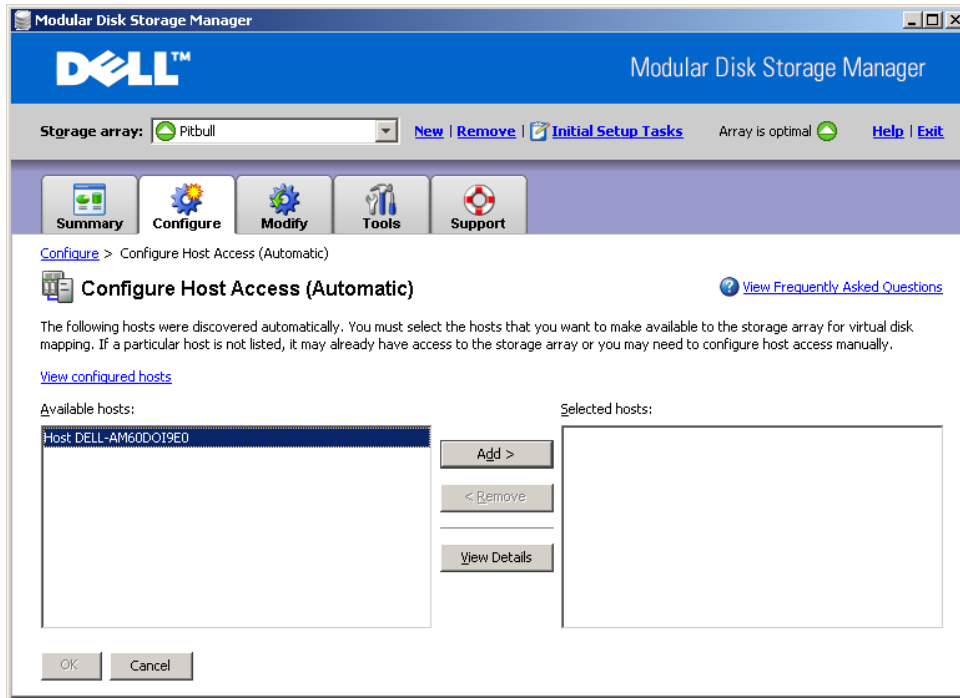
Select **Remove** from the **Modular Disk Storage Manager** title bar to remove **Storage Array** from the **Modular Disk Storage Manager**.



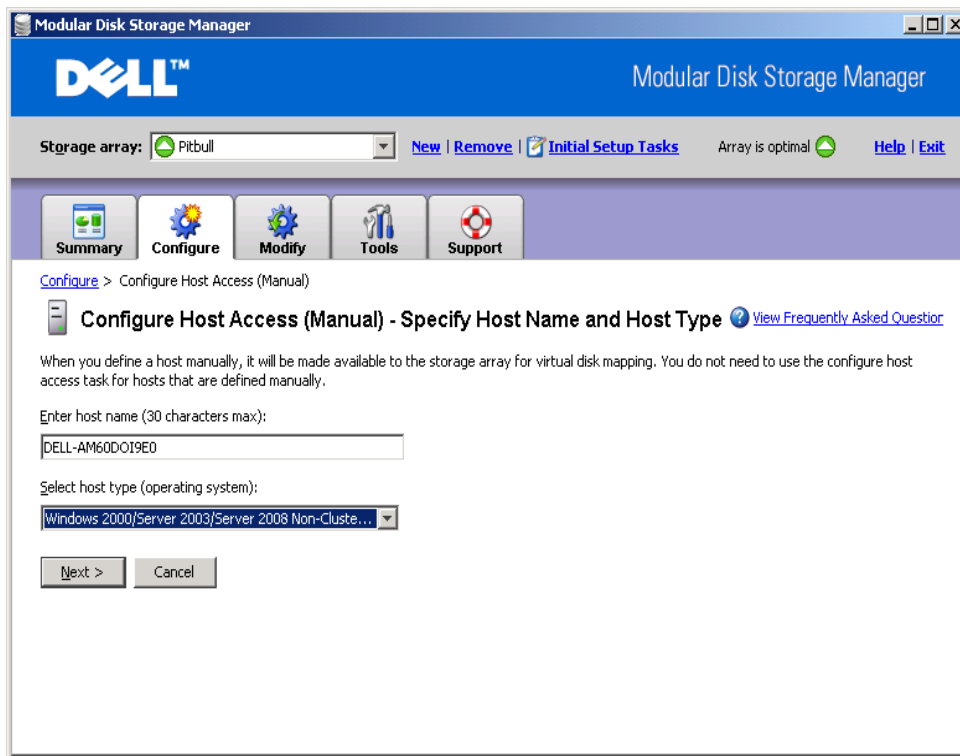
7. Insert the SAS5EADD upgrade DOS utility into the host system floppy or CD/DVD drive.
8. Power off all hosts connected to the PowerVault MD3000 array. Power off the PowerVault MD3000 followed by any attached PowerVault MD1000 systems.
9. Power on the host system and allow it to boot to the SAS5EADD upgrade DOS utility.
10. Take note of the new SAS Address for each SAS 5/E Adapter to be updated.
11. Repeat step 9 for all host systems connected to the PowerVault MD3000.
12. Power on any PowerVault MD1000 systems. Power on any PowerVault MD3000 systems.
13. Remove the SAS5EADD utility and reboot the system, allowing it to boot to the operating system as normal.
14. Launch the **Modular Disk Storage Manager** application and choose the **Add New Storage Array** using the **Automatic** option. If a host is not found use the **Manual** option to connect to the PowerVault MD3000 system.



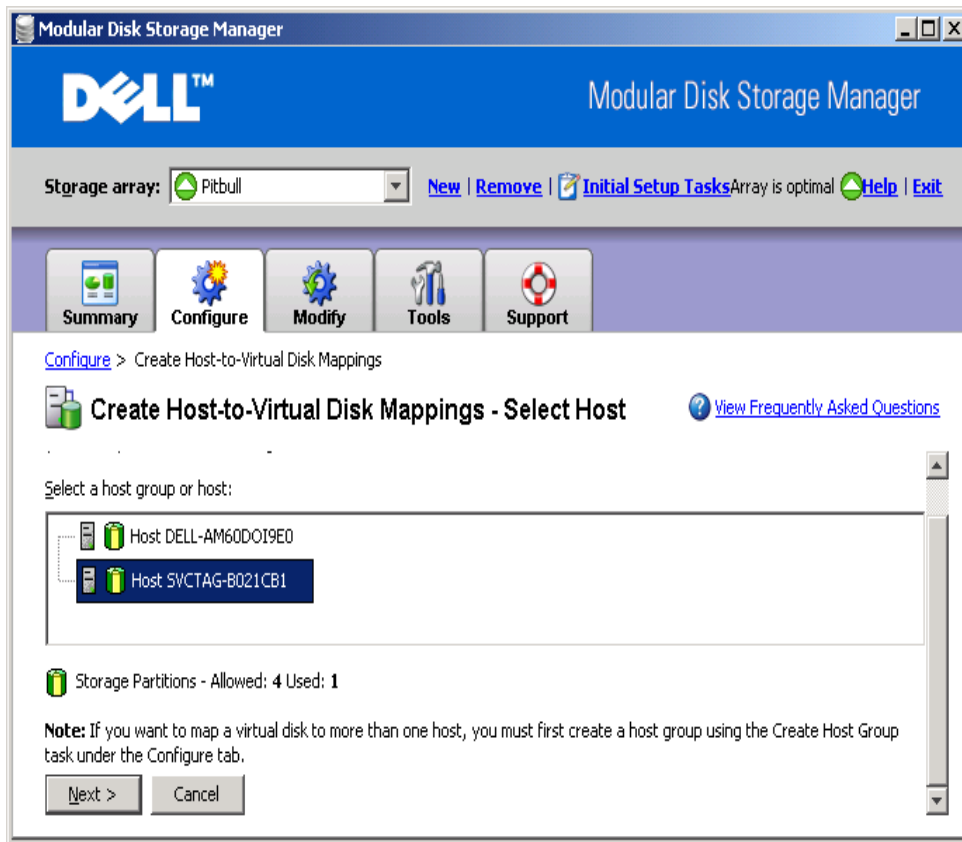
15. From the **Configure** tab, choose the **Configure Host Access** option using the **Automatic** option.



16. If the host does not configure use the **Manual** option.



17. From the **Configure** tab, select **Create Host-to-Virtual Disk Mapping** and map virtual disk(s) to the selected host.



18. The virtual disks now should be available to be reconfigured and/or remounted under the operating system on each host connected to the PowerVault MD3000 array.