Dell(TM) PowerVault(TM) 77xN Network Attached Storage (NAS) System Release Notes Version 1.2

This document contains information updating your "Dell PowerVault 77xN NAS System Administrator's Guide" and any other technical documentation included with this product. It includes the following information:

- * Adding Network File System (NFS) clients to a NFS share with "No Access"
- * Setting "All Machines" to "No Access" on NFS Shares
- * Giving the same rights as "All Machines" on NFS Shares
- * Downloading the NFS log
- * Secure socket layer (SSL) connections to PowerVault NAS Manager
- * Disappearing secondary navigation bar in NAS Manager
- * "Previous Topic" link in the PowerVault NAS Manager
- * Preparing Internet Explorer for use with the NAS Manager
- * Novell(R) NetWare(R) functionality with frame type autonegotiation
- * IRP stack size when using antivirus software or Cluster Services
- * Creating AppleTalk shares in the root directory
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Adding NFS Clients to an NFS Share With "No Access"

Do not select the "No Access" selection for individual clients available in the "NFS Sharing" tab of the "Sharing Properties" section in the NAS Manager. This option is not supported by Microsoft(R) Services For UNIX(R) 2.1 and is displayed by error. The selections available -- "No Access", "Read-Write", and "Read-Only" -- apply to "All Machines". When adding individual clients, the correct options are "root," "read/write," and "read only." Select only these options. The options will be displayed as available after the client system has been added and OK has been selected.

Setting "All Machines" to "No Access" on NFS Shares

In the event that an administrator wants to set "All Machines" to "No Access" on a specific NFS share, Dell recommends that you make this setting through the Microsoft Management Console for Services for UNIX (SFU) 2.1. The share will be disabled if the administrator selects **No Access** for **All Machines** through the NAS Manager.

Giving the Same Rights as "All Machines" on NFS Shares

After creating a NFS share, under **NFS Sharing** properties, if you add a client computer and give it the same rights as **All Machines**, then **All Machines** changes its permissions to **No Access**. To correct this, give the client computer a different setting than **All Machines**, or change the permission to root. The root permission might take a few seconds to become available after newly adding a client system.

Downloading the NFS Log

When NFS log gets really large, there may be difficulty in downloading it through the NAS Manager. The browser may time out. Instead of downloading the log through the NAS Manager, you can map a share

to your NAS system. The log's default location is C:\SFU\log\nfssvr.log.

SSL Connections to the PowerVault NAS Manager

An Internal SSL Security Certificate has been generated for

customer use to support SSL encrypted connections to the NAS Manager. However, Dell recommends creating a full certificate using a certificate authority. Disappearing Secondary Navigation Bar in the PowerVault NAS Manager _____ The secondary navigation bar allows easier browsing through the NAS Manager. It may disappear after performing some steps. If this happens, you can navigate from the top navigation bar. "Previous Topic" Link in the PowerVault NAS Manager _____ When using Netscape under Red Hat Linux 7.1 in the NAS Manager. the **Previous Topic** link in the help files or in **Take a Tour** may not work properly, and you may receive the error message **Directory Listing Denied. Preparing Internet Explorer for Use With the NAS Manager** _____ Dell recommends updating your version of Internet Explorer with the latest service packs and security updates before using it to connect to the NAS Manager. See your Internet Explorer documentation for more information. **NetWare Functionality With Frame-Type Autonegotiation** _____ Your NAS system automatically negotiates for frame-type settings with clients that want to access the NAS system. However, the NAS system will not properly negotiate these settings without a NetWare server on the network. After the NAS system has been given the correct frame-type from the NetWare server, the NetWare server is no longer necessary on the network. IRP Stack Size When Using Antivirus Software or Cluster Services ______ When you access shares on the PowerVault Filer from a Windows client and the IRPStackSize parameter on the Filer is set too low, you may receive the following error message: "Not enough server storage is available to process this command." Or certain services may fail to start during the boot process once Cluster Services or antivirus software is installed. A batch file called IRP.bat (on the Resource CD in the IRP directory) sets the IRPStackSize parameter so that the event log errors associated with a small IRP stack size are corrected. A readme.txt file in the IRP directory contains more information.

Creating AppleTalk Shares in the Root Directory

The NAS Manager will not allow you to create AppleTalk shares at the root directory level. Creating shares at the root directory level is considered an advanced option. As with all the other advanced options, the creation of an AppleTalk share at the root directory level is done through a Terminal Services session.

"Administer This Server Appliance" Link With User-Level Access

Windows(R) domain users who access the NAS Manager will authenticate automatically with the NAS system when they load the HTTP Shares page. The **Administer This Server Appliance** link, located on the **HTTP Shares** page of the NAS system does not function unless the user is a member of the system's administrators group. Domain users must re-authenticate as an administrator to administer the system. To re-authenticate as an administrator when you are logged in as a non-administrative domain user, you must manually type the address of the NAS Manager, https://cservername>:1279, into the browser. The user will be asked to re-authenticate. Enter the administrator user name and password and then you can administer the system.

Deleting Shares

In the event that a share needs to be removed from the NAS system, administrators should always first remove the share, then the folder, and finally the volume and disk if necessary. If this procedure is not followed, the administrator must manually remove the share via Terminal Services.

Adding Domain Users or Groups to Local Groups on the NAS System

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When adding new domain users or domain groups to a local group on the NAS system, you must specify the domain. For example: <domain name>\<user or group name>.

Japanese Character and HTTP Shares

Administrators can create HTTP shares using the Japanese two-byte character set. However, URLs must be named in the English language only. If you use a language other than English, you must switch to another system to type in English when specifying a fully-qualified URL addresses.

Volumes Without Drive Letters

Volumes that use a mount point instead of a drive letter cannot be created with the NAS Manager. To create a volume without a drive letter, you must do so through Terminal Services using Dell OpenManageTM Array Manager.

Large Volume Consistency Checks Resynching a volume -- confirming the integrity of a large redundant array of independent disks (RAID) set -- can take more than 24 hours depending on the size of the volume. In certain extremely large volume environments, such as a single RAID 5 volume greater than 1 TB, the initial consistency check might require more than 72 hours to complete. System performance will be degraded while the consistency check is being performed. WMI ADAP Issues Several issues are possible that can create various error messages relating to Windows(R) Management Interface (WMI) AutoDiscovery/AutoPurge (ADAP). The issues are related to the performance counters in the Windows Powered operating system. You can correct each issue by performing the following steps: 1. Connect to the system through Terminal Services Advanced Client. 2. Go to Task Manager by clicking on **Task Manager** in the Advanced Administration Menu. 3. Click on the **Processes** tab and search for WinMgmt.exe. If you cannot see it, check **Show processes from all users**. The number in the **PID** column next to **WinMgmt.exe** is the *WinMgmt service PID*. Note this number. Open a local command prompt and enter WINMGMT /CLEARADAP. 5. When the prompt returns, enter **WINMGMT /RESYNCPERF < winmgmt** service PID. See the Microsoft Support Knowledge Base at www.microsoft.com for additional information. **Telnet Service** If Telnet Service is disabled in the NAS Manager, you can re-enable the service only through the Advanced Administration Menu, which is available through Terminal Services.

MacIntosh Clients Reporting Incorrect File Sizes

Windows 2000-based servers running Services for MacIntosh may report file sizes incorrectly. For example, files may be reported to be larger than they really are. When the server lists incorrect file sizes, MacIntosh clients might report that the volume on the Windows 2000 server is full, and this message might

affect file transfers. Microsoft's Quick Fix Engineering (QFE) Q277862, which is available on the *Resource* CD in the QFE directory, addresses the issue. Double-click the **QFE** executable to extract the files. See **hotfix.txt** in the extracted files for installation instructions.

Computer Associates InnoculateIT 6.0

Computer Associates InnoculateIT 6.0 for Windows 2000 has been tested and validated with the PowerVault 77xN system. However, if you choose to install this antivirus software, the performance of the system will be degraded. Also, although most InnoculateIT tasks can be performed using the Terminal Services client, the keyboard and monitor are required to perform some tasks.

Installing the Remote Agent for Computer Associates ARCServe

When installing the Remote Agent for ARCServe 7 for Windows 2000 on the NAS system, an installation status dialog box will pop up on the client where the installation is taking place. The dialog box states that installation is in progress. However, occasionally the cursor may remain as an hourglass. You can check the NAS system's Services to see if the Remote Agent installed correctly by right-clicking **My Appliance** and then clicking **Manage—> Services—> Applications—> Services**.

Supported SCSI Card for Tape Devices

The 775N supports the Adaptec 39160 dual channel LVD SCSI for tape for connecting to the following PowerVault tape devices:

- -- 120T DLT1
- -- 122T
- -- 128 LTO and SDLT
- -- 136T LTO and SDLT

The 770N supports the Adaptec 39160 dual channel LVD SCSI for tape for connecting to the following PowerVault tape devices:

- -- 120T DDS4 and DLT1
- -- 122T VS80
- -- 128T
- -- 136 LTO & SDLT

Supported PCI NICs

The 775N supports the following PCI NICs:

- -- Intel PRO 10/100S
- -- Intel PRO Dual 10/100+
- -- Intel PRO/1000F
- -- Intel PRO/1000XT Cu GigaBit
- -- Broadcom 10/100/1000 Cu GigaBit

Default NetWare supervisor user name
For the NAS system, the default NetWare supervisor user name is supervisor, and the password is powervault. Dell recommends that you change the password for this user in addition to the standard administrator password to eliminate possible security issues.
NAS system security/password rules
The NAS system ships from the factory with a default set of local security rules. They are Password expires after 90 days -Password must be a minimum of six characters -No restrictions on the password complexity -Password cannot be the same as the past five passwords -Account is locked-out after five invalid logon attempts -After 30 minutes the Lockout count is reset to 0 -After a lockout, you must wait 30 minutes for the next logon attempt Note: These security rules may or may not be overwritten if your NAS system is joined to a domain. If your NAS system is part of a domain, contact your IT manager to determine the security rules being used by system.
Changing a user/administrator password through the NAS Manager
When changing a user/admininstrator password from the NAS Manager UI you may receive the following message: "The new password does not match password complexity rules". This message is generated if the new password does not comply with the password security rules of the NAS system. The default password security rules for the NAS system are:
-Password must be a minimum of 6 characters -Password cannot be the same as the past 5 passwords
When changing a user/administrator password be sure to follow these rules. Note: These security rules may or may not be overwritten if your NAS system is joined to a domain. If your NAS system is part of a domain, contact your IT manager to determine the security rules being used by system.
Support for Spare Memory Row
Your NAS system has spare memory row support, which allows the system to reserve a memory bank for failover. This feature is only supported on your NAS system with BIOS version A04 or above. Before enabling the spare memory row feature, download and install the latest BIOS available. Check support.dell.com for the latest BIOS release for your system.

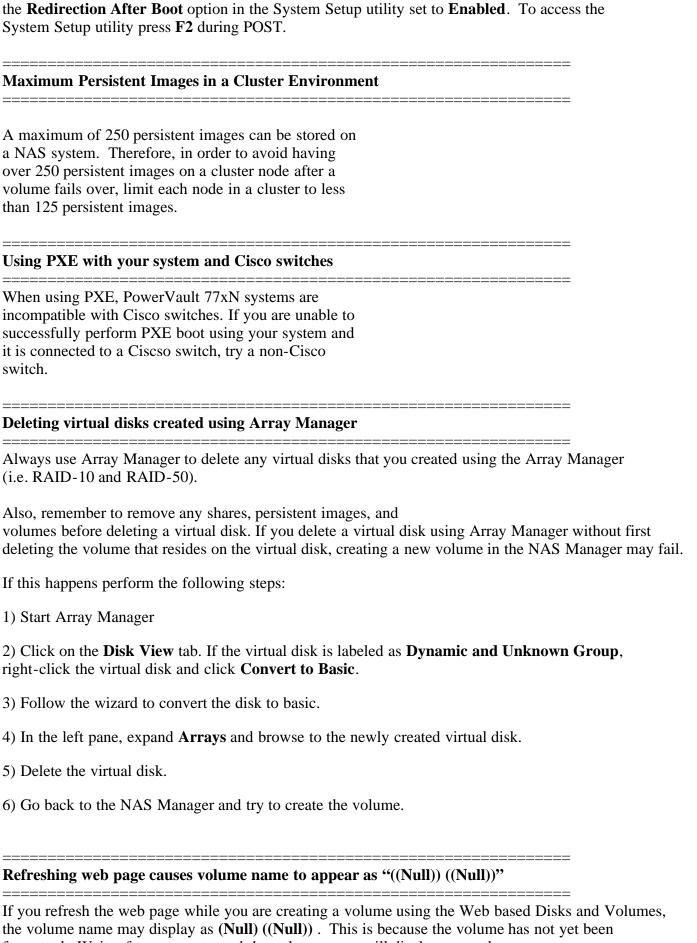
After enabling the Uninterruptible Power Supply (UPS) service from the NAS Manager UI

Configuring the UPS service from NAS manager

(Maintenance->UPS), always exit the UPS Configuration page by clicking the OK or Cancel buttons. When the UPS Configuration page is loaded, the UPS service is stopped to allow for configuration updates. However, if the OK or Cancel buttons are not used to exit the page, the service may not be restarted. If the UPS service is disabled by mistake, simply re-enter the UPS Configuration page, select Enable the UPS service on this appliance and click OK . ———————————————————————————————————		
Kick-Start diskette feature does not work		
When you are running Dell OpenManage Kick-Start, do not use the write diskette option. The Dell OpenManage Kick-start write diskette option is not supported on PowerVault 77xN systems.		
Enabling MDM Alerts		
In order to view alerts from an MDM device, the alerts for that device must be enabled. To enable alerts, go to Control Device under the Controller tab from the controller NAS Manager. Select a controlled device and click Properties . Choose Yes from the Alerts Enabled drop-down box. Click OK and alerts will be enabled for that device.		
MDM Device Status		
When an MDM device is powered down or inaccessible from the network, it may take the controller several minutes to show the device as missing. If a system is inaccessible and the device status is not yet reported as missing, any jobs run on the system may show a pending status. These jobs may never complete. Also, when the device is once again accessible, it may take several minutes for the controller to report the device as active.		
MDM Quick Run		
If an MDM job already exists, the Quick Run feature allows you to execute the job on another device or set. Click on Run Jobs under the Controller tab. Select a job and click Quick Run .		
MDM Location Field		
In the Job Template Wizard on an MDM controller, there is a location field. This field is used to specify if a script is on the controller or device. Select either controller or device then browse to the desired script on the specified system.		

To display your system output in console redirection after your system's POST, you must have

Using Console redirection after System POST



the volume name may display as (Null) ((Null)). This is because the volume has not yet been formatted. Wait a few moments, and the volume name will display correctly.

Increasing disk perfor	mance with Array Manager
	mance, use Array Manager to change the Read policy for the virtual disk d. See your Array Manager help for more information on how to change
Configuring DNS Suff	ixes
configured suffixes may	Resolution using the NAS Manager's Network Global Settings task, y not display on the DNS Resolution menu. You can verify configured Terminal Services to view the network adapter's advanced properties.
Dell Embedded Remot	te Access for the PV770N
the 770N system, you n components from the so	ed Remote Access (ERA) controller is installed after the initial setup of must manually install the ERA software. You can install the ERA software ource directory C:\Dell\OMRac. The mt_pkgand vnc_pkg components the setup.exe file located in their corresponding subdirectory.
Persistent Images are Reinstalling the Opera	No Longer Accessible After
operating system. If the before you reinstall, del you reinstall the operati the persistent images be failure, there may be lin	ot valid after you reinstall the operating system is accessible ete all persistent images before ng system. If you cannot delete ecause of an operating system aks to previous persistent images se links will not be valid.
Remote Access Contro	oller POST and Boot Path Logs
Reconfiguring the remo	te access controller will clear the POST and boot path analysis logs.
Reinstalling the 770N Reconstruction	System During a RAID
to complete before start constructs a RAID virtu	D reconstruction operation occurring on the onboard PERC 4/Di controller ing the reinstallation process on the 770N system. The PERC 4/Di all disk during a NAS Manager-> "Prepare to Expand" operation per in Array Manager. Wait until the reconstruction process completes

Disk Quotas for "Administrator" Do Not Display in the NAS Manager

To create a disk quota for the user administrator you must access the Disk Quota tool by using a KVM or though the Terminal Services Client.

NAS Manager Status Indicator Loses Posted Events After System Shutdown or Reboot

The NAS Manager status indicator loses posted events after performing a system shutdown or reboot. However, the events are still logged in the system's event log.

Limitation of Cluster support for optional Storage Manager software

Storage Manager software is not supported on clustered DellTM PowerVaultTM NAS systems.

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July 2004