

NetVault 7.1.2 Release Notes

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This document contains important end user release information on NetVault 7.1.2. It includes a brief description of any new features and all faults fixed with this release. This document does not cover the full use of the product. The administration guide and related information can be obtained from BakBone Software's web site, at the address:

http://www.bakbone.com/support/product_documentation/

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1.0 - Introducing NetVault 7.1.2

From the experts in open systems data recovery, BakBone Software's NetVault 7 delivers enhanced data protection and enterprise-class functionality that scales to meet the demands of any sized environment. NetVault's flexible, modular architecture delivers proven reliability and high performance, with a unique combination of features designed to meet current and future data protection needs. NetVault 7.1.2 is an update release to NetVault version 7.1 that provides general software maintenance and consolidates all NetVault Support Packs previously issued for NetVault version 7.1.

2.0 - New Features

Enhanced features with this release include the features listed below:

- ▶ **Network Security Enhancements** - In order to increase protection to systems running NetVault, various security enhancements have been made to counter the following exploits:
 - ▷ **The “HatSquad” Exploits** - If a machine was assigned a very long machine name, a stack overflow could occur in Windows-based environments, which could cause the Network Manager buffer to overrun and allow outside intrusion.
 - ▷ **The “BuzzDee” Exploit** - Allows for the exploitation of NetVault heap overflow which allows access to a remote shell.
 - ▷ **The Hidden Console Window Exploit** - This exploit allowed a user to access a hidden console window in Windows-based machines, thereby allowing privileged access to the system.
- ▶ **Restore From Latest Backup Option** - This new option, added to the **Advanced Options** tab in the NetVault **Restore** window, allows a user to have NetVault automatically locate the most recent backup performed of a selected set of data and have it recovered.
- ▶ **New Versions of NetVault’s File System Plugin** - Enhanced versions of the **File System Plugin** for various operating systems, have been included with this release (i.e., 6.1.7 for Windows-based systems and 5.2.9 for Linux).
- ▶ **Updated Version of the Data Copy Plugin** - This native NetVault APM has been enhanced to properly coordinate with various NetVault APM backups.
- ▶ **Enhanced Duplication Functionality** - NetVault’s Duplication functionality used to fail to report that it could not duplicate the data stream properly. To overcome this, an internal check has been added to NetVault.

Features previously introduced as new with the earlier 7.1.x versions include the following:

- ▶ **Independent Incremental Backup Life Support** - Previous versions of NetVault linked the media retention period for a Incremental backup save set to the retention period specified in the Full or Consolidate job upon which the incremental backups were based. This hard linkage meant that all incremental backup media was retained until the full backup save set media it was based on was retired even after subsequent full backups were run. Originally developed and tested as part of a future release this modification was released early due to a high degree of customer interest. NetVault 7.1.1 removes this retention period restriction and allows users to set individual retention periods for incremental backup media as long as the period specified does not exceed the media save set retention period of the full backup job upon which the incremental is predicated.
- ▶ **VSS Support**- The initial phase of support for Microsoft’s Volume Shadow Copy Services in Windows Server 2003 will provide basic support of VSS generated snapshots. Files processed using snapshot services will be backed up in a “crash consistent state”. Open file handling will be supported during Windows Server 2003 **File System Plugin** backups.

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- ▶ **Job Priority Feature** - A new NetVault workload management feature that allows an execution priority to be associated with each job. When many jobs are competing for the same set of resources, such as tape drives and media, the jobs with the highest priority will be assigned resources before lower priority jobs.
- ▶ **Job Retry Feature** - When a NetVault job fails it can now be set for an automatic restart. The user may specify a single retry or up to a total of ten retry attempts. Note, that jobs will restart from the beginning and may optionally utilize a delay timer to postpone the restart operation for any period up to 24 hours.
- ▶ **Media Request Timeout Feature** - When any media request goes unsatisfied for a specified period of time, the request will terminate and the job will be failed. This allows for script post processing execution to occur and is especially useful in lights out operations where operators may not be available to satisfy media requests.
- ▶ **NetVault Database Grooming Tools** - As customers address larger Client environments and NetVault keeps track of more operational information for trouble shooting and report generation, the NetVault Database can grow to be very large in some cases. The Database Grooming Feature provides several tools to assist customers in managing database growth by controlling the amount of space occupied by the backup Saveset index records. Two functions are being provided:
- ▶ **Saveset Index Compression** - Allows administrator's to specify when a backup Saveset index should be compressed.
- ▶ **Offline Saveset Indexes** - Allows users to specify how long to retain the Saveset's file level index records in the media manager database. Saveset information is available on the restore screen but the individual file level records will need to be restored from the tape based index before it can be opened.
- ▶ **Mixed Media Support** - A method for managing tape libraries capable of supporting multiple media types has been added to Library Management. The implementation is hardware independent and will support any library with this capability.
- ▶ **Other Media Management Enhancements** - Performance has been improved when supporting large tape libraries. Additional information, such as number of bytes used by a backup spanning media, has been added to NetVault Tape Media displays.
- ▶ **ACSLs (phase 2) & SN6000 Support** - New support for StorageTek's ACSLS Library control software interface has been improved, and the StorageTek SN6000 Virtual Tape Controller is now supported by NetVault.
- ▶ **Unicode Windows Mixed Language Support** - NetVault 7.1 will now backup the windows file system using Unicode, this enables us to backup and restore a mixed language system. In previous releases certain files were excluded from the backup due to name encoding restrictions. (Separate **File System Plugin** to be made available in November 2003).

3.0 - NetVault 7.x-specific APMs

- ▶ **The Encryption Plugin** – Is reliant on specific versions of NetVault and users will need to update the plugin to version 1.14 when upgrading encrypted Clients to NetVault Release 7.1.2. With the Encryption plugin, data is encrypted (128-bit) at the Client, and the data remains encrypted while transferred over the network and when written to tape, providing unparalleled data security for NetVault customers. This new module is optional and only available with the release of NetVault 7.1 and onwards.
- ▶ **The Shared Virtual Disk Library (SVDL) Plugin** - This plugin is also reliant on the version of NetVault in use. If performing a fresh install of NetVault version 7.1.2, version 1.7 of this plugin **must be** used. If performing an upgrade from an earlier version of NetVault that utilizes an older version of the **SVDL Plugin**, this older version must be removed **before** upgrading NetVault and the new version (i.e., ver. 1.7) installed after the upgrade has completed.

4.0 - NetVault 6.x/7.x Client Compatibility

For any NetVault Clients running on a platform not yet supported with Release 7.1.2, those Clients may continue to use a NetVault 7.0, 7.1, 7.1.1. or earlier 6.x Client versions. Please note that in order to domain manage a NetVault 7.1.2 Server from a remote NetVault Client or Server based GUI that NetVault node must also be at release level 7.1.2.

NetVault 6.x Clients will be administered by the NetVault 7.x Server, however, they will not be able to take advantage of all of the new version 7 features as described here:

- ▶ **Policy Management** - Windows NetVault 6.x Clients cannot be part of a policy, but the Job/Policy management window will display that Client's job status, etc.
- ▶ **Enhanced Reporting** - The NetVault 7.x Server will not be able to collect drive statistic information or data on the number of items processed in a backup job from the 6.x Clients.

5.0 - NetVault 6.x APM/Plugin Compatibility

Performing APM/Plugin Maintenance Upgrades

In most cases, 6.x APM's are forward compatible with NetVault 7 and do not require an upgrade. Some APM's are updated with maintenance releases of NetVault, such as the **Encryption Plugin** mentioned above. BakBone recommends customers perform a maintenance upgrade whenever a new version of an APM or plugin is made available.

NetVault 6.x 64-bit APMs

In the case of 64-bit databases, NetVault 6.x 64-bit APMs are **not compatible** with version 7.x. From NetVault Release 7.0 onwards, a 32-bit NetVault core can support 64-bit plugins, hence providing 64-bit database support. If any 64-bit plugins are being used in a 64-bit NetVault environment they will need to be upgraded once the appropriate NetVault core platform has been upgraded to NetVault Release 7.0 or greater. This restriction does not apply to NetVault 6.x 64-bit plugins for the Tru64 operating system as both the NetVault Server and APM's have always been 64-bit binaries.

NetVault 6.x Version Plugins that Do Not Function with Version 7.x

Older versions of the following plugins **do not** function properly with NetVault 7.x (e.g., those installed and used with NetVault 6.5.3 and older) and **must be** upgraded. They are included in the list below:

- ▶ **Lotus Notes APM** (this applies to all supported operating systems except Windows)
- ▶ **NetWare Thin Client Plugin**
- ▶ **All 64 Bit Plugins**
- ▶ **All supported Plugins and applications running on the IRIX platform**

Please refer to the NetVault Supported APM Matrix available on the BakBone web site documentation page to confirm compatibility with NetVault 7.x.

6.0 - Upgrading NetVault 6.x to 7.x

Upgrading NetVault depends on the NetVault version being upgraded from. Licensing is also an issue when upgrading the NetVault software. Prior to attempting an upgrade of NetVault, it is critical that the NetVault Upgrade Guide be consulted for the proper procedure.

Important: The 'NVDELETEJOBS' CLI has been changed to 'NVJOBDELETE' to fix an error in the older CLI that required the Job Manager interface to be active on the Server before the function would work as described. If the 'NVDELETEJOBS' CLI is being used in existing NetVault installations the CLI name will need to be updated in scripts to 'NVJOBDELETE' after upgrading to NetVault 7.1.1.

Please refer to the NetVault Upgrade Guide (ver. 7.1.x) in the Product Documentation section of the BakBone web site.

7.0 - Known Issues

This section documents known NetVault issues.

- ▶ **Post Install Script Errors** - Post install scripts may fail when the password established for the installation of NetVault includes either the **greater than** (e.g., ">") or **less than** (e.g., "<") characters, and the installation may not complete successfully.
- ▶ **Upgrading from NetVault ver. 7.1.1 and Trace Level Settings** - After an upgrade from version 7.1.1 to 7.1.2, any Trace Levels that were set in the NetVault Configurator to the level "LIBVERBOSE" may be reset to "NORMAL".
- ▶ **Backup Options sub-tab is grayed out after saving a backup option set (UNIX / Linux Only)** - While defining a backup job if a backup options set is created and saved, the backup options sub-tab window will be grayed out when next entered. This condition may occur anytime this window is re-entered whether editing an existing job or creating a new backup job regardless of the Client selected. Closing and re-opening the NetVault GUI will temporarily clear this condition until a backup option save set is once again created and saved. To modify backup options without closing and re-opening the GUI, select the option to 'Load' a backup options set and then choose to modify the existing set or create a copy. The window will become functional allowing all options to be selected or changed before saving the options set to replace the original set or create a new one.
- ▶ **Linux Itanium Operating System Requirement** -The following package is specific to the Linux Itanium operating system and is a prerequisite for running the NetVault GUI and the Configurator:

openmotif-2.1.30-11

If it is not installed, the following error will appear when the user attempts to run the NetVault GUI, Configurator, or Process Viewer:

**"error while loading shared libraries: libXm.so.2: cannot open shared object file:
No such file or directory."**

For complete information on the installation of this package, please see the relevant Linux Itanium operating system documentation.

- ▶ **UniCode File System Plugin Support Notes** - In order to run the Unicode version of the **File System Plugin** provided with NetVault 7.1 in which Windows-based machines exist, the following conditions must be met:
 1. Any Windows machine where the Unicode version of the **File System Plugin** is installed must be running a NetVault Release level that is newer than Build R2003OCT22-CHIEF.
 2. Any non-Windows NetVault Server managing a domain with Windows-based Clients that are using the Unicode version of the **File System Plugin** must be running at a NetVault Release level that is newer than R2003OCT22-CHIEF.
- ▶ **Unicode Support Limitations in MS Windows, Mac OS X, and Linux** - The following items cover known limitations when using the following NetVault functionality:
 - ▷ **Windows File System** - This plugin is only able to display Unicode file names in the default locale of the machine running the GUI. This is a display issue only and does not compromise the backup; all files will be processed during a backup.
 - ▷ **Include/Exclude Files** - For Mac OS X and Linux systems using Unicode file systems the contents of include / exclude files must only contain ACSII characters. As a result NetVault is not able to include or exclude files or directories that contain non ACSII characters in their names. For Windows include/exclude files can contain Unicode file names, hence there are no restrictions.
 - ▷ **Restore Rename/Relocates Feature** - When specifying a restore with the “rename” or “relocate” option, only ASCII characters can be used. It is not possible to rename or relocate directories or files to a path or name containing non ASCII characters.
 - ▷ **Using the Search Functionality Available in the Restore Window** - This functionality **can not** be used to search for **non-ASCII** characters. If these characters are input, the search will not return any result. This limitation will affect operations in double byte countries using non-ASCII name strings in the file system.
 - ▷ **Job Progress Windows:**
 - ▼ **Windows and Linux-based Operating Systems** - Job progress (monitor) screens will not display Unicode characters. The **File System Plugin** will convert Unicode names to multi-byte for display in monitor screens but only files in the default machine locale will be converted correctly.
 - ▼ **Mac OS X Systems** - The Job Progress (monitor) screen will display Unicode properly and the **File System Plugin** will send Unicode for display. Effectively, this restriction does not impact Mac OS X users when monitoring a Mac OS X **File System Plugin** backup.
 - ▷ **NetVault Logs Viewers:**
 - ▼ **Windows and Linux-based Operating Systems** - The O/S's convert any Unicode file names to multi-byte when logging messages. As a result, only file and/or job names in the default machine locale will successfully be displayed in the logs.
 - ▼ **Mac OS X Systems** - File names are logged in Unicode; hence there are no display restrictions when displaying logs coming from a Mac OS X file system backup.
 - ▷ **Sorting** - Sorting of non ACSII Unicode entries will not be correct when mixed locales are present. This is a general restriction and not NetVault specific as the precedence order of some characters will often change from one language to the next.
 - ▷ **Names Entered in the GUI** - Generally, use of Unicode names for objects created using any UI input screen is restricted. This includes jobs, policies, media labels, and group names. For Windows and Linux these names need to be made up from multi-byte characters only. For the Mac OS X GUI, these names need to be made up from ASCII characters only.
 - ▷ **Interoperability Issues:**
 - ▼ If any Operating System monitors another Operating System's **File System Plugin** backup, only ASCII characters are displayed.

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- ▼ Mac OS X and Linux-based systems are able to display each other's files in the Backup and Restore windows without any issues.
- ▼ Windows is not able to display non ACSII characters in the backup and restore trees when browsing Mac OS X and Linux file systems.
- ▼ Mac OS X and Linux are only able to display ACSII characters when browsing a Windows file system.
- ▶ **Cross-platform NetVault Database Recovery Incompatibility** - A cross-platform restore of the NetVault Database is *not* currently possible, i.e. restoring a Windows-based NetVault database backup to a UNIX/Linux-based system is not supported.
- ▶ **7.1.1 Installed to Enterprise Linux Advanced Server v3 Inability to Install APMs/Plugins through the NetVault Configurator** - The **Packages** tab of the **NetVault Configurator** makes it possible to install additional software packages (e.g. NetVault Plugins and APMs). NetVault 7.1 users running **Enterprise Linux Advanced Server v3** *can not* utilize this functionality due to a known issue. Additional software packages can be installed through the use of the **Client Management** window of the NetVault GUI. (For complete details on installing software packages in this manner, please see *Chapter 6: The Client Management Window* of the *NetVault Administrator's Guide*.)
- ▶ **Modifying the Target Set for an Existing NetVault Backup Job Results in the Automatic Selection of the Media Request Timeout Option Located in the Target Tab (Windows-based O/S ONLY)** - Once a backup job, utilizing the default options available in the **Target** tab is submitted/saved and the job is then re-accessed (e.g. via the **Edit/View Job** or **Load** commands) the **Media Request Timeout** option will become *automatically selected* with a value set to 30 minutes if the **Target** tab is accessed and the **Modify** checkbox selected to edit the Target Set. If a Target Set for an existing job is to be edited, ensure that the **Media Request Timeout** option is de-selected if this functionality is not desired.
- ▶ **Launching the NetVault GUI in FreeBSD ver. 5.3** - The traditional method used to launch the NetVault GUI (i.e., issuing the command “nvgui” from any prompt of a terminal session) *does not work* on systems running *version 5.3* of the FreeBSD Operating System. To access the GUI, it is necessary to perform the following steps:
 1. From a terminal session prompt, navigate to the following directory (where “...” pertains to the path to the NetVault installation directory):

```
.../netvault/bin
```
 2. Once in the required directory, issue the following command to launch the NetVault GUI

```
.nvgui
```

8.0 - Fault Fixes

This section documents known issues that have been corrected with this release of NetVault.

Fault #	Description
23925	Consolidated index inherits the timestamp of the last incremental used causing potential data loss.
24066	The performance of a backup with the RAW Device Plugin drops significantly after an upgrade upgrade to version 7.1.1.on Solaris (SPARC)-based operating systems.
23133	Object leak when loading stream map causing Media Manager memory to be consumed
22948	Can not change the schedule set after 1st schedule has started.

Fault #	Description
24224	Incremental backup function does not operate normally when using the inclusion list function.
21751	NetVault doesn't restore the NetVault database correctly when "Events', 'Reports Database', and 'General Report Files' are checked
24321	The File System Plugin can fail to restore a selected file and return the error message "Error reading from media"
24328	Backups with the Consolidate Incremental Backups Plugin can fail and return the error message "Error reading from media".
24335	When performing an installation of NetVault the error message "The Installer has encountered an unexpected error installing this package The error code is 2727" is revealed.
24351	A restore with the NDMP Plugin can fail to restore an "unexpected pause seek" to a valid position in the current segment.
24363	The required file, "libnv6winevt.dll" was missing in various distributions of version 7.1.1
24379	Geometry problems can occur when attempting to set up a Shared Virtual Disk Library on a volume within a RAID
24431	Media Manager can crashes when the Scan command is used for a selected piece of media
24439	Global Notification tab's notification method, "Run a Job" does not function.
24447	Specific builds of NetVault version 7.1.1 for Windows-based Operating Systems do not allow a user to load any saved Backup Options sets
24457	Specific browser software fonts created a conflict that did not allow a user to install software components from the NetVault Configurator
24458	Specific builds of NetVault version 7.1.1 for Windows-based Operating Systems do not allow for the running of the following Netvault canned reports: "Single User's Audit Trail" and "Failed ULA Requests"
24641	An error of "Plugin Died Unexpectedly" is received when attempting to create a Shared Virtual Library Device with the SVDL Plugin
24662	If media in a created Shared Virtual Disk Library is assigned a four (4) digit barcode extension, errors would launch and the media is not usable
24663	Different volume information is displayed for the same Shared Virtual Disk Library, between different Operating Systems
24664	Inability to Reuse media in a Shared Virtual Disk Library
24690	When creating a Shared Virtual Disk Library, the SVDL Plugin will return an error of "Plugin Died Unexpectedly" if no device is selected when the first dialog box that is revealed is closed (i.e., the OK button is clicked)
24713	Unable to create a Shared Virtual Disk Library on "physical drive 0" of a system

Fault #	Description
24720	When upgrading from 7.1.1 to 7.1.2, the option "Allow service to interact with desktop" is not automatically de-selected, which creates a security exploit
24803	An error message for the "sgen changer arm" is revealed for Solaris 10 (Intel) installations of NetVault 7.1.1
24805	The SVDL Plugin in Linux environments uses an "fsync()" process that is no longer required with a raw device.
22509	An issue with the Report tool not showing the barcode label of a blank tape has been resolved.
22730	Solaris 32 bit installation failure; installation utility was enhanced to properly check during installation of 32 bit systems whether /usr/lib/sparcv9 directory is actually present.
22749	Plugin died unexpectedly error caused by trying to load a duplicate savesets off-lined index has been resolved.
22041	Members of client groups not being accurately reported has been resolved by adding a call to AudSaveClientGroups() in the proper report component.
22604	Licensing event errors not being properly displayed when evaluation licenses are expiring has been corrected.
22610	Removed nvdeletejobs CLI from distribution and added a new nvjobdelete CLI to allow function to operate without requiring Job Manager Window to be active.
22638	Corrected for HP-UX 11 platform errors where NetVault was incorrectly reporting the blocks processed in sparse files during a backup.
22655	Corrected error to ensure Mac OS X client installs have security disabled by default in the Configurator.
21106	Error occurring during a diagnose of a media request in large libraries causing the Windows GUI to abort has been corrected.
22177	Successful execution of nvtrigger (and many other CLI tools) no longer creates dump files - NCR TAR 254325
22520	Reporting errors where certain APM related job executions (such as SnapMirror To Tape) are not being included in status reports has been corrected.
22536	NULL Filter string causing NetVault scheduler to crash has been resolved.
22552	A simultaneous connection attempt by two NetVault machines dropping network packets has been corrected.
22575	User Level Access media group restrictions not being applied to backup jobs has been resolved.
22582	Failed connections during overlapping simultaneous connection attempts between two clients has been corrected
19687	Issue with ULA only allowing Media Quota to be set up to 999GB- Modifications were made to the user interface to increase this field to allow values up to the maximum of 32,767GB.

Fault #	Description
19936	Duplicate 2nd Phase Monitor for File System jobs not showing no any status information has been corrected.
20528	Protect Media from further writes option was stopping Duplicate Migration from migrating correctly when trying to reuse media that was marked as read only. Changes were made to allow media marked as read only to be marked as readable when the media is being expired.
20617	NDMP APM installation issues on NV71 TRU64 OS have been resolved
20634	HP-UX 64-bit installation errors have been corrected. Links from /usr/lib/pa20_64 to the NetVault core libraries are now created
20657	Command line interface tools not working with IBM AIX releases have been resolved.
20664	Error with Windows Unicode support that keeps users from being able to open a multi-language directory structure when selecting files for restore has been resolved
20688	NDMP attached device plugin data channels blocking indefinitely on TCP sends has been resolved
20697	Media Manager crashes on Japanese builds of NetVault only when adding a second library have been identified and corrected
20706	Issues causing configuration file corruption causing 6.5.x to 7.0 to 7.1 upgrades to fail on Windows machines has been resolved.
20844	Aborting a job manually does not stop automatic triggering of job retries when 'Job Retry' function was specified. This issue has been resolved.
20939	Critical issue with NDMP APM backups failing to span onto third piece of tape media has been resolved.
20951	Incorrect backup job action that backed up files through autofs NFS mounts on HPUX when 'Do not backup through NFS Mounts' was selected has been corrected.
20956	Browsing directory structures containing multi-byte character sets during backup and restore operations using the Unicode enabled File System Plugin has been resolved.
21025	Installation errors when installing NV7.1 on UnixWare 7.1.2 (OpenUnix 8) have been resolved.
21044	Problems with the NetVault GUI indicating the incorrect state of running jobs when the Job Status window was restarted while jobs were in progress have been resolved. Jobs completed successfully, this was a display error only.
21050	Errors introduced to include mixed media support in NetVault 7.1 were causing the Vault-Share ACSLS APM to fail when mapping drives fails after adding a library. This issue has been identified and corrected.
21087	Linux version update from 7.0 to 7.1 failing to properly transfer Exchange index to a Windows machine has been corrected

Fault #	Description
21117	Issues where NetVault's internal media rotation module can consume vast amounts of memory when many jobs are running at the same time and cause backups to fail has been resolved.
21146	Media Diagnose screen not indicating a media label after an upgrade from NV 6.5.3 has been corrected.
21158	Initialization errors with LTO gen2 drives on AIX5.1 machines have been identified and corrected.
21238	An undocumented feature that allows control of drive(s) selection during restore operations has been added to this release. This is a temporary fix in that all restores will use the specified drive(s). A permanent fix is under consideration that will allow control of restore drive selection on a job level basis. To enable this control contact support.
21286	GUI was returning wrong changer type when attempting to map / un-map ACSLS drives- Corrected by using the changer module to derive drive type
21300	NDMP data channel does not use the firewall configuration- Network manager changes made to ensure configuration is checked before starting the NDMP data channel
21301	Problems with attempting to connect to a second client failing when configuring port ranges on a NetVault server running MPRAS have been identified and resolved
21302	SnapMirror to Tape error where newly labeled media is erroneously reported as not having enough space has been resolved
21332	An internal error that caused the GUI to abort when editing or viewing an existing job if values of 1 minute were set in the job retry switch for that job has been corrected.
21341	Issue with a local NDMP backup/restores failing when spanning media and using an ACSLS library have been resolved
21458	An error in the Snap Mirror to Tape APM where restores are failing at end of a spanned tape in multi-tape backup jobs and when the NDMP based filer is running at NDMP v4 has been resolved.
21581	Execution errors with several NetVault packages such as the SNMP Trap plugin have been identified. The Netvault package installer has been modified to ensure shell permissions are copied correctly.
21599	Check Drive Command not functioning with ACSLS drives- The method 'check' on an ACSLS drive was modified to bring the drive back online
21712	CLI tools for closing eeports not working in mixed media configurations have been updated to include support for mixed media arguments
21718	Mac OS X server and other Unix ports logs filter screen was resized to display key buttons on GUI, i.e., ok, apply and cancel buttons
21787	HP-UX machines not handling 08 (SCSI) Busy state on second mode select command has been corrected to show device busy indication
21840	Errors in the NDMP APM causing 'blanked' tapes to be listed as 'other' and not available for usage in future jobs as been identified and corrected.

Fault #	Description
21867	Blue screen when scanning or adding devices and a virtual library has been allocated to RAID device- Corrected by modifying behavior of device scanning when performing SCSI inquiries for virtual devices
21952	Media Quota report displays quota's greater than 1023MB as 0MB used- Code modifications in report writer were made to correct this issue.
22004	Job Monitor launch process failures may cause the job being monitored to fail. Changes were made to the job manager message handler to ensure that Job Monitor launch errors do not cause related job failures.
22030	Consolidation on Linux backup server of Active directory backup fails with message "Error writing to media"- Resolved by code changes to allow AD system settings to be properly processed during consolidation job.
22049	64 Bit Linux running on PSeries scheduling errors causing jobs to run at wrong times have been identified and corrected.
22122	NetVault GUI functions requiring a directory tree display's to be maintained were optimized to improve overall UI display performance.
22178	Linux installation scripts modified to ensure that users can exit the license review screen and continue on with the install.
22259	Command Line Interface tools copyright notice has been updated.
22260	Modifications made to the checkinstall.sh and postinstall.sh scripts to properly handle long and short path names in parameter files.
2299	Errors found in the Network Manager broadcast interval settings that caused increased network traffic has been identified and corrected.
22393	Modification made to core to correct an error in the SAP Backint APM that caused Target Client to not be displayed for restore capability.
22401	Errors found in certain NetVault processes that caused specified trace levels to be ignored have been resolved. Trace level settings now work as specified.
22419	Errors in string compare functions that caused the wrong client entries to be removed or duplicate machines to be added in the NetVault client machine list when using the add / remove client functionality have been resolved.

9.0 - Documentation Notes & Changes

This section lists any necessary notes and changes and supersedes what is shown in any version of the NetVault documentation (if applicable). For the most current version of the NetVault Administrator's Guide and Configurator Guide, log onto BakBone Software's web site and access the **Product Documentation** page which can be accessed at the following address:

http://www.bakbone.com/support/product_documentation/

From this page, all of the most recent versions of NetVault Documentation can be downloaded.

- ▶ *Currently, there are no new modifications to the documentation outside what is available via download from BakBone Software's web site.*

10.0 - About BakBone Software

BakBone Software is a leading data recovery solution provider that develops and globally distributes data backup, restore, and disaster recovery software for network storage environments. BakBone delivers scalable solutions that address the needs of large enterprise environments and small to medium size businesses. Incorporated in 2000, BakBone Software's products are used by companies worldwide and are distributed through a network of OEMs and solution providers.

11.0 - Technical Support

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BakBone Software

... is dedicated to providing friendly, expert advice to NetVault customers. Our highly trained professionals are available to answer your questions, offer solutions to your problems and generally help you make the most of your NetVault purchase. Log on to our web site, or contact our Helpdesk, for more information.

BakBone Software Web Site: <http://www.bakbone.com>

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