

## NetVault 7.3.1 Release Notes

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This document contains important end user release information on NetVault 7.3.1. It includes a brief description of the new features and faults fixed with the release. This document does not cover the full use of the product. The NetVault Administration Guide and related technical information can be obtained from the NetVault 7.3 CD or BakBone Software's web site:

[http://www.bakbone.com/support/product\\_documentation/](http://www.bakbone.com/support/product_documentation/)

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## 1.0 - Introducing NetVault 7.3.1

From the experts in open systems data recovery, BakBone Software's NetVault version 7.3 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 7.3.1 is an update release to NetVault version 7.3 that provides general software maintenance and consolidates all NetVault Support Packs previously issued for NetVault version 7.3

## 2.0 - New Features

As with NetVault version 7.3, ports for version 7.3.1 are limited to NCR MP-RAS; Linux Kernel 2.4; Microsoft Windows 2000; and Windows Server 2003 operating systems. This is intended as a maintenance release to resolve known issues. The points below illustrate the modifications made to NetVault for this release:

- ▶ **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 over-run 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.

While this release offers no tangible new functionality, the list below offers details on what was offered for use with version 7.3:

- ▶ **Clustered Application Support** – Provides simplified support for specific third party application backups configured in clustered processor environments. While designed to provide support for a wide range of clustering applications the initial application fail over support has been tested with Microsoft Cluster Services (MSCS) & RedHat Cluster Manager.
- ▶ **Directory timestamp preservation** – An optional setting that ensures the timestamps on restored directories are reset with the date information present at backup time. This feature is based on revisions to the file system plugin and support availability for specific platforms will be rolled out separately from this initial release. This feature is available today, in the file system plugin that shipped with the initial GA version of the Microsoft Windows binary.

## 3.0 - NetVault Version 7.3-specific APMs

Application fail over support in clustered environments requires the use of “Cluster-aware” plugins and special licenses. NetVault 7.3.x supports the following APMs:

- ▶ **Microsoft SQL APM** – A minimum version of 3.7 is required to utilize the enhanced clustered backup support in NetVault version 7.3.
- ▶ **Microsoft Exchange APM** – A minimum version of 2.3 is required to utilize the enhanced clustered backup support in NetVault version 7.3.
- ▶ **Microsoft Exchange Mailbox APM** – A minimum version of 1.6 is required to utilize the enhanced clustered backup support in NetVault version 7.3.
- ▶ **Linux File System Plugin** – A minimum version of 5.10 is required to utilize the enhanced clustered backup support in NetVault version 7.3.
- ▶ **Windows File System Plugin** – A minimum version of 5.11 is required to utilize the enhanced clustered backup support in NetVault version 7.3.

## 4.0 - NetVault Client Compatibility

For any NetVault Clients running on a platform not yet supported with Release 7.3, those clients may continue to use an earlier 7.x or NetVault 6.x Client version. Please note that NetVault 6.x clients **cannot** use their GUI to remotely access a NetVault 7 server. As a general rule, a NetVault Server must **always** be at the highest version level in a mixed version environment and any Client that is used to remotely access (i.e., Domain Manage) a NetVault Server must have the same version of NetVault installed as the target Server.

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:

- ▶ **Application Cluster Support** – Requires that clients installed on all nodes in cluster be at version 7.3 or higher.
- ▶ **Policy Management** – NetVault 6.x clients cannot be part of a policy, but the Job/Policy management window will display that client’s jobs and status, etc.
- ▶ **Enhanced Reporting** – The NetVault 7.x server will not be able to collect drive statistics information on devices attached to the 6.x client.

## 5.0 - 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 Note** – 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 or 7.3.

It is possible to upgrade NetVault 6.5.2, 6.5.3, 7.0, 7.1, or 7.1.1 to NetVault 7.3. However, certain rules apply specifically to the upgrade from a 6.5.3 installation, and not to an upgrade from version 6.5.2, 7.0, or 7.1.

In addition to these differences, a few general rules apply to all version upgrades, including the following:

- ▶ A NetVault Server can only support clients of the same version as itself, or older. It cannot, however, support clients running a newer version of the software (e.g., a NetVault Server running version 6.5.2 cannot control a client running NetVault version 7.3).
- ▶ When upgrading, it is critical that the NetVault Server be upgraded to version 7.3 before upgrading any NetVault Clients.
- ▶ A machine running either a 6.5.2, 6.5.3, 7.0, or 7.1 version of the NetVault GUI can not domain control a NetVault 7.3 server, so if using domain control to manage the NetVault Server, the machine controlling it will require an upgrade as well.

For complete upgrade instructions, please refer to the NetVault 7.3 Upgrade Guide in the Product Documentation section of the BakBone website or the NetVault 7.3 CD.

## 6.0 - Known Issues with 7.3

This section documents known NetVault issues.

### ▶ 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.

### ▶ 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 or Higher 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 7.3 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.

## 7.0 - Fault Fixes

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

<b>Fault</b>	<b>Description</b>
24507	Error where Re-use flag is not being cleared when a re-usable media is scanned has been corrected
24567	NDMP Error: Remote backup child job aborting causes drive lock up has been corrected.
24589	NetVault 7.1 nvreport CLI command now returns I/O error count value correctly
24953	Issue when size of backup data stream is greater than 2GB, and Media List in GUI shows corrupted From, to value has been resolved
25091	Error in MediaFormat API (MTF) has been resolved
25130	-o option of the nvreadlog command has been modified to operate according to the manual description.
24937	Issue where a Post script wasn't run after media request time outs has been resolved.
24649	Errors in 2GB index check routines that performs checks against LONG_MAX value have been corrected
24250	Errors with Server NetVault capabilities not matching true server capabilities on the license report have been resolved
20038	Error where the Duplication of a multi-stream backup was writing to a separate tape for each data stream has been corrected.
24939	Error where NetVault can recognize Read I/O error, but its status is "Backup Completed with warning" has been resolved.
24750	Timing issues where sub menus reached via a right mouse click are taking a longer time than normal to open have been created.
24301	Index limit checks not occurring for indexes on clients has been resolved
24900	NVDEVMGR failing to recognize that a tape needs to be scanned resulting in the job hanging in a "Waiting for media state" have been corrected
25165	Error when Tracing the "Notification Plugin" that resulted in the "nvsendmail.log" file being overwritten for each message sent has been corrected.
25154	Errors in the "%machine" reporting field, as reported in the "Library Drives" report, have been corrected.
25155	Inconsistent handling of the nvopeneeport CLI when the eeport is already open, have been resolved.
25287	Errors leading to restored file corruption (in limited cases) with network compression option enabled have been resolved.
25210	Issue with the Oracle RMAN APM failing to load/initialize the 'orasbt' library on NetVault 7.3.1(R2005JUN20) has been resolved

Fault	Description
25098	Issue where creating a virtual node for MS cluster will count against the 'real' client license on a NetVault Server has been corrected.
25184	Failure to write all '/MediaDatabase/Files/Backup/0000/<xxxxxxx>' files when doing a NVDB Restore causing corrupted indexes has been corrected.
23289	VSS plugin now contains the standard 45-day evaluation key after installation
25022	Error in 'StrValueListFromString()' where the routine will not strip new lines has been resolved.
24090	Issues with filtering logs based on client and job, where client name filter was being ignored have been corrected
25225	Error where Incremental backups of long path names cause the File System plugin to crash with a guard band error have been resolved.
19331	Issues where a NVDB Full restore is unsuccessful in recovering certain sub files and causing fatal errors during the restore have been resolved.
21751	Problems with NVDB restore on NetVault7.x. while running with the Japanese locale loaded have been corrected.
25438	Errors where Mac directory metadata is lost when consolidating Mac file system backups on other operating platforms has been corrected.

The table that follows outlines faults that have been fixed in earlier 7.3.x versions of NetVault.

Fault #	Description
17661	Issue where a "Restore Search" mask returns greater than 5,000 files and none of the files were displayed has been resolved. Searches are still limited to 5,000 but results are now displayed.
23166	Configuration file errors reported in BETA - Closed.
23133	Media Manager Memory over runs caused by retiring old backup job objects has been resolved.
22812	Resolves issue with NCR Teradata restore searches failing (NCR TAR 252818).
23072	Errors loading locale maps that cause memory over runs when the File System Plugin is used with the Japan Locale have been resolved.
22137	Media Scan failures related to scanning media located in ACSLS and DAS controlled library slots has been resolved.
22238	Opening a library door will no longer cause the 'Cleaning Life' setting for cleaning media in the library to be reset to original setting.
22280	Media Contents report class modified to accurately display media entries when a backup set spans multiple tapes.

Fault #	Description
21276	Netware Thin Client device connections not being restored (forcing manual reloading of the NLM) after a NetVault Backup reboot have been resolved.
21931	Restore Job Selection errors reported in BETA - Closed.
22994	An error where the Media Manager's media properties pop-up box does not reflect the accurate status of media that is marked as unusable has been corrected. The proper status is now displayed.
22976	Error in SMTP session constructs that caused e-mails to fail when headers are misinterpreted when E-mail alerts were issued from the Global Notification system has been corrected.
22272	An error introduced in NV 7.1 that caused 'virtual media' defined in disk virtual libraries to be marked as bad when the block size used for virtual drives exceeded 64K has been resolved (NCR TAR: 270597).
22663	Block count miscalculations causing NDMP based Three Way Backups to fail when more than two tapes were spanned by a single backup saveset have been corrected.
22906	An error when using the Data Copy plugin with migrate option turned on that caused the migration source media to be marked as "All Segments Expired" instead of 'Reusable' has been identified and corrected.
22380	A log viewer error that failed to display the first line in a new log file when reading across multiple files has been resolved (NCR TAR 259613).
22300	Problems writing headers to stand-alone virtual drives that have been added to NetVault using the auto-configure method has been corrected.
22932	NVJOBDELETE CLI error when handling wildcards in the command line has been corrected.
22740	A memory management error caused when a report handler called a class with a filter specified for the table being called by the class has been resolved.
22071	Backup Schedule windows default time display has been corrected to pick up the correct time from the NetVault time function.
22601	Expired licensed messages being issued erroneously for non-existent license ID's has been corrected.
22801	An error in the incremental backup function that relied on a saveset ID number to determine the base save sets for the incremental backup has been corrected to check save set dates in addition. Obscure errors had been observed when scanning in save sets back to the index and their save set ID number was changed during the process.
22125	Errors in plugin installation routines that allowed platform specific plugins to be installed on clients with the wrong operating systems installed have been corrected.
21366	NVLOGDUMP CLI errors when start and end time parameters are specified to limit scope of the dump have been resolved.
21634	Issue causing device logs to disappear in Windows environments when columns are selected for selective display has been resolved.

Fault #	Description
21117	Media Manager optimization has been performed to reduce the number of backup stream maps loaded into memory. This has caused an large amount of memory to be consumed when database plugins spawn a large number of simultaneous backup jobs.
22574	Virtual Client configuration errors reported in BETA - Closed.
22509	An error in the report classes for media drives and slots where the bar codes for blank media where not being displayed has been corrected.
22115	File System updates made to allow non-English locales to be added when older (pre 5.x) versions of the file system plugin are in use.
22508	DHCP errors when machines are not able to get a network address which corresponds to its own hostname have been resolved.
22178	Problems encountered trying to exit the license screen display when installing NetVault Linux 64 bit platforms have been corrected.
22177	Issues with CLI Tools creating dump files even when the CLI did not abort have been resolved (NCR TAR 254325).
22000	An issue where media labels were being displayed as "None" in the media properties dialog box from a Linux based Domain Manager Client has been resolved. Correct media labels are now displayed.
21870	Issue on Mac OS X where 'Show client details' selection only displays one line of text has been resolved to show multiple lines with scrolling.
19108	Issues with the 'nvbulkblankmedia' command not operating correctly have been resolved.
19936	Monitor for File System jobs during Duplicate 2nd Phase (non NetWare!) correctly to properly show transfer information.
20379	Error with restore media list displaying incremental data incorrectly has been corrected.
20486	MTF header changes have been made to stop directory and file attributes being changed erroneously when restoring a backup of CD-ROM to another drive.
20694	Issue where 'nvnmgr' can crash when trying to add "ld" keys to stanzas in machines.dat file has been corrected.
21361	GUI changes made to ensure backup tabs login window is no longer being covered up by the backup window.
21332	A fault has been corrected that caused the GUI to die on edit / viewing of an existing job.
21311	Upgrading from NetVault 6.5.3 to NetVault 7.3, Unix Installation/Removal Utility no longer shows old NetVault version instead of new upgrade version information.
21264	Problem with Uninstall scripts requiring a specific full directory path have been corrected.
21263	Pre-install script failure after stopping NetVault services during upgrade from 7.1 to 7.3 have been corrected.
21174	Label media screen now includes a barcode at top of drop down list when 'Use Barcode as Label' option is specified (NCR TAR: 243907).

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<b>Fault #</b>	<b>Description</b>
21172	The rename and relocate fields on restore are now disabled by default to prevent an accidental overwrite of source files (NCR TAR: 204766).
21170	Triggers no longer remain active when changing a triggered job to a scheduled job (NCR TAR: 237682).
21147	JOB MONITOR failing to open periodically has been corrected.
21127	'Cleaning Interval' window refusing to accept 'OK' or 'Cancel' to close after an upgrade has been corrected.
21125	NetVault Services timing issues that can cause an upgrade to fail have been corrected.
21121	Obscured upgrade process messages no longer occur during a pkgadd. This fault caused upgrades to appear to hang when they were waiting for a response to a message that was hidden.
21106	Diagnose of a media request can cause the GUI to crash when large numbers of media are present. This fault has been addressed.
20968	Issue with Domain control attempts from Windows machines resulting in multiple hung 'nvgui' processes when a user cancels the machine connection password dialog has been corrected by treating a cancel request as a login error.
20946	Media with expired saveset segments that should be marked for reuse was indicating 'All segments expired' and was not automatically being selected for new backup operations. This fault has been corrected, only expired media marked as 'read only' will indicate this status.
20930	Problem with installing NetVault properly from a UNC path...install would not install any plugins, has been corrected.
20862	Removal of last/only machine in client management Window caused NetVault to fail and re-add new clients and fail on subsequent startups. Issue has been resolved by ensuring the server can never be removed as a client of itself.
20842	Binaries in 7.1 installations were marked with invalid permissions causing them to be world readable and executable.
20184	NetVault 7.0 inadvertently changed the way older savesets (Backup Life) were expired after a consolidation function was run. Corrected in NV 7.3 to ensure savesets eligible for expiration are expired after either a new full backup or a consolidation job have been run. This feature now functions as it did with NV version 6.5.3.
21940	Issue with Scheduler memory leaks when handling process death has been corrected.
21164	asf_load_media causing 'Lost move source from internal tree'
21171	No template for the 9940B
21169	If the server specified for nvtrigger is a client you get a misleading error 'scheduler died'
21173	nvlabelmedia needs to be able to change the offsite location of labeled media
23355	Document -WAIT Option in the Administrator's Guide

Fault #	Description
19880	SVDL creation corrected password not accepted (NCR TAR: 253700).
23009	NCR require npk with custom default settings (NCR TAR: 255079).
21758	Failed to add segment record for backup (NCR TAR: 266384).
18695	Expired backup life of write-protected media leaves tape "READ ONLY", instead of "Marked for Reuse" (NCR TAR: 267366).

## 8.0 - Documentation Notes and Changes

This section lists any necessary notes and changes and supersedes what is shown in the printed version of the NetVault documentation. For the current version of the *NetVault Administrator's Guide* and *NetVault Configurator Guide*, log onto BakBone Software's web site and access the Product Documentation page located at the following address:

[http://www.bakbone.com/support/product\\_documentation/](http://www.bakbone.com/support/product_documentation/)

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

► **There are currently no documentation updates for NetVault 7.3.**

## 9.0 - 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.

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## 10.0 - Technical Support

### 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.

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