Symantec NetBackup 7.1.0.4 Release Notes

NetBackup 7.1.0.4

Maintenance Release

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Technical Support

Symantec Technical Support maintains support centers globally. Technical Support's primary role is to respond to specific queries about product features and functionality. The Technical Support group also creates content for our online Knowledge Base. The Technical Support group works collaboratively with the other functional areas within Symantec to answer your questions in a timely fashion. For example, the Technical Support group works with Product Engineering and Symantec Security Response to provide alerting services and virus definition updates.

Symantec's support offerings include the following:

- A range of support options that give you the flexibility to select the right amount of service for any size organization

- Telephone and/or Web-based support that provides rapid response and up-to-the-minute information

- Upgrade assurance that delivers software upgrades

- Global support purchased on a regional business hours or 24 hours a day, 7 days a week basis

- Premium service offerings that include Account Management Services

For information about Symantec's support offerings, you can visit our Web site at the following URL:

www.symantec.com/business/support/

All support services will be delivered in accordance with your support agreement and the then-current enterprise technical support policy.

About Symantec Operations Readiness Tools

Symantec Operations Readiness Tools (SORT) is a set of Web-based tools that supports Symantec enterprise products. For NetBackup, SORT provides the ability to collect, analyze, and report on host configurations across UNIX/Linux or Windows environments. This data helps to assess whether your systems are ready for an initial NetBackup installation or for an upgrade from your current version.

To access SORT, go to the following Web page:

http://sort.symantec.com/netbackup

Once you get to the SORT page, more information is available as follows:

- **Installation and Upgrade Checklist**
  Use this tool to create a checklist to see if your system is ready for a NetBackup installation or an upgrade.

- **Hot fix and EEB Release Auditor**

  Use this tool to find out whether a release that you plan to install contains the hot fixes that you need.

- **Custom Reports**

  Use this tool to get recommendations for your system and Symantec enterprise products, tips for risk assessment, and product license tracking.

Contacting Technical Support

Customers with a current support agreement may access Technical Support information at the following URL:

www.symantec.com/business/support/

Before contacting Technical Support, make sure you have satisfied the system requirements that are listed in your product documentation. Also, you should be at the computer on which the problem occurred, in case it is necessary to replicate the problem.

When you contact Technical Support, please have the following information available:

- Product release level

- Hardware information

- Available memory, disk space, and NIC information

- Operating system

- Version and patch level

- Network topology

- Router, gateway, and IP address information

- Problem description:

  - Error messages and log files

  - Troubleshooting that was performed before contacting Symantec

  - Recent software configuration changes and network changes

Licensing and registration

If your Symantec product requires registration or a license key, access our technical support Web page at the following URL:

www.symantec.com/business/support/

Customer service

Customer service information is available at the following URL:

www.symantec.com/business/support/

Customer Service is available to assist with non-technical questions, such as the following types of issues:

- Questions regarding product licensing or serialization
- Product registration updates, such as address or name changes
- General product information (features, language availability, local dealers)
- Latest information about product updates and upgrades
- Information about upgrade assurance and support contracts
- Information about the Symantec Buying Programs
- Advice about Symantec's technical support options
- Nontechnical presales questions
- Issues that are related to CD-ROMs, DVDs, or manuals

Support agreement resources

If you want to contact Symantec regarding an existing support agreement, please contact the support agreement administration team for your region as follows:

Asia-Pacific and Japan	customercare_apac@symantec.com
Europe, Middle-East, and Africa	semea@symantec.com
North America and Latin America	supportsolutions@symantec.com

Contents

About new features and enhancements

This chapter includes the following topics:

■ About NetBackup 7.1.0.4 new features and enhancements

About NetBackup 7.1.0.4 new features and enhancements

This release offers the following enhancements:

■ This release includes a new utility, `seedutil`, that lets you seed the deduplication fingerprint cache of a remote client. Doing so greatly reduces the amount of time of the first backup over a high-latency, low-bandwidth network such as a WAN: For information about how to use the new utility: See the following Technote on the Symantec Support Web site. http://www.symantec.com/docs/TECH144437

This release contains fixes to the known issues that pertain to the customer-specific issues that have been documented in the form of a Titan Case. Many of these fixes are available as individual engineering binaries and engineering bundles. These EEBs were created to address specific customer issues with a previous version of NetBackup. This maintenance release lists those engineering binaries and bundles.

See "About NetBackup 7.1.0.4 release content" on page 64.

See "NetBackup 7.1.0.4 Emergency Engineering Binary (EEB) listing" on page 115.

Platform compatibility

This chapter includes the following topics:

- About platform compatibility for NetBackup 7.1.0.x
- NetBackup compatibility lists
- About NetBackup binary sizes

About platform compatibility for NetBackup 7.1.0.x

This release supports the platforms and binary sizes that were documented in the *NetBackup 7.1 Release Notes for UNIX, Windows, and Linux* document. The following sections describe how to locate the latest compatibility lists that are available on the Symantec Support Web site. In addition, the Binary Sizes table has been included for your convenience.

For more information about platform compatibility, see the following:

- *NetBackup 7.1 Release Notes for UNIX, Windows, and Linux* on the Symantec Support Web site.
  http://www.symantec.com/docs/DOC3643
- The *NetBackup Enterprise Server and Server 7.xOS Software Compatibility List*
  http://www.symantec.com/docs/TECH59978

About software release types

Symantec NetBackup maintains a policy by which they can deliver various levels of releases to accommodate customer needs. The following list defines the various release types and the version number schemes associated with each type. NetBackup products and the NetBackup Appliance products use this same process.

- A major release is the first in a series of single-dot releases such as 2.0 or 7.0. This type of release contains new features, new supported platforms, and a complete set of the latest product documentation.

- A minor release is a single-dot release that follows a major release, for example, 2.1, 7.1, 7.5, and so forth. This release type contains much of the same requirements as a major release. It contains a smaller set of new features and enhancements, any platform proliferation, and a complete set of updated documentation.

- A release update is a double-dot release, for example, 2.0.1, 7.0.1, 7.0.2, and so forth. This release type may contain a few new features and enhancements as well as a many product fixes. Only those documents that are applicable to the new features or enhancements are updated and republished.

- A maintenance update is a triple-dot release, for example, 2.0.0.1, 7.1.0.1, 7.1.0.2, and so forth. This release type is comprised of a small number of fixes that are developed to address issues in either a major, minor, or release update. This release type only contains fixes to known issues and does not contain new features or enhancements to NetBackup. The only documentation that is provided is an online Readme and a NetBackup Release Notes document that is available on the Symantec Support Web site.

About NetBackup 7.1.0.x release compatibility

Symantec NetBackup has always maintained that the master server within your environment must be at a version level that is equal to or greater than the version levels of your media servers and client servers within the same environment. Beginning with NetBackup 7.1 and the NetBackup Appliances, you can apply a maintenance update (for example 7.x.x.x) to a media server or client server within an environment where your master server is at a version level of 7.1. This same scenario can apply to the maintenance updates that are released under a minor release or release update.

See "About software release types" on page 11.

Symantec NetBackup does not support any scenario where a minor release or release update is at a higher version level that the parent server. For example, the following applies.

- If a master server is at 7.1, then the media servers and client servers cannot be at a single-dot version level that is higher than 7.1, such as 7.2 or 7.5.

- If a master server is at 7.1, then the media servers and client servers cannot be at a double-dot version level that is higher than 7.1, such as 7.1.x.

- If a master server is at 7.1.1, then the media servers and client servers cannot be at a double-dot version level that is higher than 7.1.1, such as 7.1.2.

The following table shows the various compatibility schemes that are supported with the current NetBackup 7.1 product line.

Table 2-1   NetBackup release compatibility for the 7.1 product line

NetBackup master server	NetBackup media server	NetBackup client
7.1 (or greater)	7.0	6.0, 6.5, 7.0
7.1 (or greater)	7.0.1	6.0, 6.5, 7.0, 7.0.1
7.1 (or greater)	7.0.2	6.0, 6.5, 7.0, 7.0.1, 7.0.2
7.1 (or greater)	7.1	6.0, 6.5, 7.0, 7.0.x, 7.1, 7.1.0.x
7.1 (or greater)	7.1.0.1	6.0, 6.5, 7.0, 7.0.x, 7.1, 7.1.0.x
7.1 (or greater)	7.1.0.2	6.0, 6.5, 7.0, 7.0.x, 7.1, 7.1.0.x
7.1 (or greater)	7.1.0.3	6.0, 6.5, 7.0, 7.0.x, 7.1, 7.1.0.x
7.1 (or greater)	7.1.0.4	6.0, 6.5, 7.0, 7.0.x, 7.1, 7.1.0.x

For this release, the following applies:

- The following upgrade paths are supported with this release:

  - The base NetBackup 7.1 version directly to 7.1.0.4

  - The base NetBackup 7.1 version to 7.1.0.1 to 7.1.0.4

  - The base NetBackup 7.1 version to 7.1.0.1 to 7.1.0.2 to 7.1.0.4

  - The base NetBackup 7.1 version to 7.1.0.1 to 7.1.0.2 to 7.1.0.3 to 7.1.0.4

- For a vSphere environment, Symantec recommends that you upgrade all of the components to NetBackup 7.1.0.4. That includes the master, the media and the VMWare proxy servers.

- The *Symantec OpsCenter Administrator's Guide for Windows and UNIX* contains the OpsCenter compatibility information. You can also refer to the compatibility matrix that is posted on the Symantec Support Web site. That document is posted at the following URL:
  http://www.symantec.com/docs/TECH59978

Note: If you want to enable the BMR option, make sure that the NetBackup master server, client, and BMR boot server versions are compatible.

The NetBackup client should not be of a version that is later than the master server and BMR boot server.

The BMR boot server should not be of a version that is later than the master server.

Following are some of the configurations that are allowed in case of a BMR-enabled setup:

Table 2-2

NetBackup Client version	BMR boot server version	Master server version
NetBackup 7.1	7.1	7.1
NetBackup 7.1	7.1.0.1	7.1.0.1
NetBackup 7.1.0.1 or 7.1.0.2	7.1.0.1 or 7.1.0.2	7.1.0.2
NetBackup 7.1.0.1, 7.1.0.2, or 7.1.0.3	7.1.0.1, 7.1.0.2, or 7.1.0.3	7.1.0.3
NetBackup 7.1.0.1, 7.1.0.2, 7.1.0.3, or 7.1.0.4	7.1.0.1, 7.1.0.2, 7.1.0.3, or 7.1.0.4	7.1.0.4

About NetBackup compatibility with the NetBackup Appliance

NetBackup appliances enable customers to quickly add an appliance as a media server or client in an existing NetBackup environment.

When an appliance is released, the latest version of NetBackup is used as a basis on which the appliance code is built. That ensures that all applicable features, enhancements, and fixes that were released within NetBackup are included in the latest release of the appliance. The following table outlines the NetBackup releases with the NetBackup appliance releases and how the version numbers apply for each release.

Table 2-3   Comparison of NetBackup appliance version numbers and NetBackup version numbers

NetBackup release version	NetBackup Appliance release version	Version version of NetBackup used with the Appliance
7.0	1.2	7.0

Table 2-3   Comparison of NetBackup appliance version numbers and
NetBackup version numbers *(continued)*

NetBackup release version	NetBackup Appliance release version	Version version of NetBackup used with the Appliance
7.1.0.1	2.0	7.1.0.5
7.1.0.2	2.0.1	7.1.0.6
7.1.0.3	2.0.2	7.1.0.7
7.1.0.4	2.0.3	7.1.0.8

For the latest NetBackup Appliance compatibility information, refer to the
NetBackup server 7.x hardware compatibility list on the Symantec Support Web
site.

http://www.symantec.com/docs/TECH59978

NetBackup compatibility lists

The most up-to-date compatibility information on platforms, peripherals, drives,
and libraries is located in various compatibility lists on the Symantec Support
Web site. You can use the following methods to locate these lists:

■ The following URL guides you to a set of tools that can help you locate the
latest platforms, peripherals, drives, and libraries.
https://sort.symantec.com/netbackup
For NetBackup, SORT provides an Installation and Upgrade Checklist report
as well as the ability to collect, analyze, and report on host configurations
across UNIX/Linux or Windows environments. In addition, you can determine
in what release whether any hot fixes or EEBs you have installed are fixed.
You can use this data to assess whether your systems are ready to install or
upgrade to this release.

■ If you want to view a specific compatibility list, you can find links to each list
that is posted on the Symantec Support Web site:
http://www.symantec.com/docs/TECH59978
The following items describe each of the compatibility lists that are available.

■ The *NetBackup Enterprise Server and Server 7.x OS Software Compatibility
List* contains information about the operating system (OS) level and the
version that is required to be compatible with a NetBackup master or media
server. It also describes the OS level and the version that is required to be

compatible with a NetBackup client. Predecessors and successors to the documented operating system levels may function without difficulty, as long as the release provides binary compatibility with the documented operating system.

That list contains information about each of the following NetBackup Enterprise features:

- NetBackup Enterprise servers and client

- Bare Metal Restore (BMR)

- NetBackup Access Control (NBAC)

- Network Data Management Protocol (NDMP)

- NetBackup SAN Client and Fiber Transport

- NetBackup Virtual System compatibility

- MSEO (media server encryption option)

- NetBackup Media Server Deduplication Option

- NetBackup OpsCenter

- File System Capability

NetBackup compatibility for a platform or OS version requires platform vendor support for that product. The platform compatibility lists that NetBackup maintains are subject to change as vendors add and drop platforms or OS versions.

- The *NetBackup server 7.x hardware compatibility list* includes information for compatible drives, libraries, virtual tape devices, robot-types, fibre-channel HBAs, switches, routers, bridges, iSCSI configurations, and encryption devices

   That list includes information about the compatible drives, robot types, switches, routers, and bridges, and iSCSI configurations that coincide with the following hardware:

   - OpenStorage

   - Virtual tape libraries (VTLs)

   - Network Data Management Protocol (NDMP)

   - Host bus adapters (HBAs)

   - Encryption

- *NetBackup Database Agent 7.x Software Compatibility List*

This compatibility list contains the most current platform compatibility information for NetBackup database agents.

- *NetBackup 7.x Snapshot Client compatibility lists*

- *NetBackup 7.x BMR File System and Volume Manager compatibility lists*

  See also the *NetBackup Bare Metal Restore Administrator's Guide* for the following additional compatibility lists:

  - BMR compatible shared resource tree (SRT) versions

  - BMR compatible file systems and volume managers

  - BMR compatible cluster solutions

  - BMR disk space requirements

- *NetBackup7.x Cluster Compatibility List*

- *NetBackup Desktop/Laptop Option compatibility list*

- *Backup Exec Tape Reader compatibility list*

About NetBackup binary sizes

The information in this section helps you determine if you have allocated the proper amount of disk space to your servers to safely and efficiently back up and restore all of the data in your NetBackup environment.

Table 2-4 shows the approximate binary size of the NetBackup master and media server software, and the NetBackup client software requirements for each operating system that is compatible with NetBackup.

Table 2-4   NetBackup binary sizes for compatible platforms

OS/Version	CPU Architecture	32-bit client	64-bit client	32-bit server	64-bit server	Notes
AIX 5.3	POWER		1073MB		3599MB	64-bit binary compatible.
AIX 6.1	POWER		1073MB		3599MB	64-bit binary compatible.
AIX 7.1	POWER		1073MB		3599MB	
Asianux 2.0, 3.0	x64		624MB		2564MB	
Canonical Ubuntu 8.0	x64		624MB			
Canonical Ubuntu 9.04	x64		624MB			
Canonical Ubuntu 9.10	x64		624MB			

Table 2-4   NetBackup binary sizes for compatible platforms *(continued)*

OS/Version	CPU Architecture	32-bit client	64-bit client	32-bit server	64-bit server	Notes
Canonical Ubuntu 10.04	x64		624MB			
Canonical Ubuntu 11.10	x64		624MB			
CentOS 5.2, 5.3	x64		624MB			
CentOS 6.0	x64		624MB		2564MB	
Debian GNU/Linux 4.0, 5.0, 6.0	x64		624MB			
FreeBSD 6.1, 6.2, 6.3, 7.x, 8.x	x86	120MB				
FreeBSD 6.3, 7.x, 8.x	x64	120MB				
HP-UX 11.11	PA-RISC		738MB		1797MB	64-bit binary compatible. Media server or client compatibility only.
HP-UX 11.23	PA-RISC		738MB		1797MB	64-bit binary compatible. Media server or client compatibility only.
HP-UX 11.31	PA-RISC		738MB		1797MB	64-bit binary compatible. Media server or client compatibility only.
HP-UX 11.31	IA64		1235MB		3648MB	
Mac OS X 10.5	POWER	194MB				
Mac OS X 10.5, 10.6	x86	194MB				
Mac OS X 10.5, 10.6, 10.7	x64	194MB				
Novell Open Enterprise Server 2	x64		611MB		2492MB	
OpenVMS 5.5	HP VAX	16MB				
OpenVMS 6.2	HP VAX	16MB				
OpenVMS 7.3	HP VAX	16MB				
OpenVMS 6.1	HP Alpha		16MB			
OpenVMS 6.2	HP Alpha		16MB			

Table 2-4 NetBackup binary sizes for compatible platforms *(continued)*

OS/Version	CPU Architecture	32-bit client	64-bit client	32-bit server	64-bit server	Notes
OpenVMS 7.3	HP Alpha		16MB			
OpenVMS 8.2	HP Alpha		16MB			
OpenVMS 8.3	HP Alpha		16MB			
OpenVMS 8.4	HP Alpha		16MB			
OpenVMS 8.2	HP IA64		16MB			
OpenVMS 8.3	HP IA64		16MB			
OpenVMS 8.3-1H1	HP IA64/Alpha		16MB			
OpenVMS 8.4	HP IA64/Alpha		16MB			
Oracle Enterprise Linux 4.0	x64		624MB		2564MB	64-bit binary compatible.
Oracle Enterprise Linux 5.0	x64		624MB		2564MB	64-bit binary compatible.
Oracle Enterprise Linux 6.0	x64		624MB		2564MB	64-bit binary compatible.
Red Flag Linux 5.0	x64		624MB		2564MB	
Red Hat Enterprise Linux 4.0 (AS)	x64		624MB		2564MB	64-bit binary compatible.
Red Hat Enterprise Linux 5.0 (base)	x64		624MB		2564MB	64-bit binary compatible.
Red Hat Enterprise Linux 5.0 (AS)	x64		625MB		2564MB	
Red Hat Enterprise Linux 6.0 (base)	x64		624MB		2564MB	64-bit binary compatible. New platform for this release.
Red Hat Enterprise Linux 6.0 (AS)	x64		624MB		2564MB	64-bit binary compatible. New platform for this release.
Red Hat Enterprise Linux Desktop 4.0	x64		624MB			
Red Hat Enterprise Linux Desktop 5.0	x64		624MB			64-bit binary compatible.
Red Hat Enterprise Linux 4.0 (AS)	IA64		490MB			Compatible with client only.

Table 2-4   NetBackup binary sizes for compatible platforms *(continued)*

OS/Version	CPU Architecture	32-bit client	64-bit client	32-bit server	64-bit server	Notes
Red Hat Enterprise Linux 5.0 (base)	IA64		490MB			Compatible with client only.
Red Hat Enterprise Linux 4.0 (AS)	POWER		228MB			
Red Hat Enterprise Linux 5.0 (base)	POWER		228MB			
Red Hat Enterprise Linux 4.0 (AS)	z/Architecture		447MB		1906MB	Media server or client compatibility only.
Red Hat Enterprise Linux 5.0 (base)	z/Architecture		447MB		1906MB	Media server or client compatibility only.
Red Hat Enterprise Linux 6.0 (base)	z/Architecture		447MB		1906MB	Media server or client compatibility only.
Solaris 9	SPARC		621MB			64-bit binary compatible.
Solaris 10	SPARC		738MB		2260MB	64-bit binary compatible.
Solaris 10	x64		535MB		2133MB	64-bit binary compatible.
Solaris 11	SPARC		738MB		2260MB	64-bit binary compatible.
Solaris 11	x64		535MB		2133MB	64-bit binary compatible.
Solaris 11 Express	SPARC		738MB			64-bit binary compatible.
Solaris 11 Express	x64		535MB			64-bit binary compatible.
SUSE Linux Enterprise Server 9	IA64		477MB			Compatible with client only.
SUSE Linux Enterprise Server 10 (SP1)	IA64		477MB			Compatible with client only.
SUSE Linux Enterprise Server 11	IA64		477MB			Compatible with client only.
SUSE Linux Enterprise Server 10 (SP1)	x64		611MB		2492MB	
SUSE Linux Enterprise Server 11	x64		611MB		2492MB	

Table 2-4   NetBackup binary sizes for compatible platforms *(continued)*

OS/Version	CPU Architecture	32-bit client	64-bit client	32-bit server	64-bit server	Notes
SUSE Linux Enterprise Server 9	POWER		240MB			Compatible with client only.
SUSE Linux Enterprise Server 10 (SP1)	POWER		240MB			Compatible with client only.
SUSE Linux Enterprise Server 10 (SP1)	z/Architecture		429MB		1868MB	Media server or client compatibility only.
SUSE Linux Enterprise Server 11	z/Architecture		429MB		1868MB	Media server or client compatibility only.
Windows	x86	600MB		1700MB		Covers all compatible Windows x86 platforms
Windows	x64		700MB		1900MB	Covers all compatible Windows x64 platforms
Windows	IA64		600MB			Compatible with client only.

Product dependencies

This chapter includes the following topics:

- About Product Dependencies
- Operating system patches and updates
- VxFS and VxVM compatible versions

About Product Dependencies

This release requires the same product dependencies that were documented in the *NetBackup 7.1 Release Notes for UNIX, Windows, and Linux* document. The following sections describe the product dependencies and VxFS and VxVM compatible versions.

http://www.symantec.com/docs/DOC3412

Operating system patches and updates

This topic provides information on the product dependencies of this release of NetBackup. You should verify that your operating system is up-to-date with all of the latest patches and upgrades before you install NetBackup. This section is a guide to inform you of the operating systems that require a patch or an upgrade.

Table 3-1 provides the known, minimum operating system (OS) patches and updates. A vendor may have released a more recent patch that supersedes a patch that is listed in this table. Symantec recommends that you visit the Support Web site of that particular vendor for their latest patch information.

Table 3-1   Operating system patches and updates for NetBackup

Operating system type and version	Patch	Notes
AIX 5.3	AIX runtime libraries 8.0.0.10 or 9.0.0.3 or later	You may need to restart after changing to version 9.0.0.3.
	`xlC.rte 8.0.0.10` fileset	For the `xlC.rte 8.0.0.10` fileset, you may need to install the IY91284 fix to avoid a potential issue when creating or updating the NetBackup database. The IY91284 fix is part of Maintenance Level 6.
	AIX 5.3 TL7 SP5 (5300-07-05-0831)	NetBackup 7.0 requires the AIX 5.3 TL7 SP5 (5300-07-05-0831 Maintenance Pack as a minimum. (Higher patch levels should also work.) You can use the `oslevel -s` command to verify what Maintenance Pack level you have installed.
AIX 6.1	IZ16878	When you start Java user interface applications on AIX 6.1 platforms an exception can occur. To prevent the exception, Symantec recommends that you install patch IZ16878 from IBM® Support.
	AIX runtime libraries 9.0.0.3 or later	The runtime libraries need to be at 9.0.0.3 or later. You may need to restart after you change to version 9.0.0.3.
HP-UX	COMPLIBS.LIBM-PS32	If you install AT on an HP-UX platform, this patch is required.
HP-UX IA64	Networking.NET-RUN: /usr/lib/libipv6.sl	
	Networking.NET-RUN-64: /usr/lib/pa20_64/libipv6.1	
	Networking.NET-RUN-64: /usr/lib/pa20_64/libipv6.sl	

Table 3-1   Operating system patches and updates for NetBackup *(continued)*

Operating system type and version	Patch	Notes
	Networking.NET2-RUN: /usr/lib/hpux32/libipv6.so	
	Networking.NET2-RUN: /usr/lib/hpux32/libipv6.so.1	
	Networking.NET2-RUN: /usr/lib/hpux64/libipv6.so	
	Networking.NET2-RUN: /usr/lib/hpux64/libipv6.so.1	
	Networking.NET2-RUN: /usr/lib/libipv6.1	
HP-UX PA-RISC	Networking.NET-RUN: /usr/lib/libipv6.sl	For HP-UX PA-RISC platforms, this fileset is required:
	Networking.NET-RUN-64: /usr/lib/pa20_64/libipv6.1	For HP-UX PA-RISC platforms, this fileset is required:
	Networking.NET-RUN-64: /usr/lib/pa20_64/libipv6.sl	For HP-UX PA-RISC platforms, this fileset is required:
	Networking.NET2-RUN: /usr/lib/libipv6.1	For HP-UX PA-RISC platforms, this fileset is required:
HP-UX 11.11	PHSS_35385	This patch is required for JAVA 6.0.
	PHSS_32226	This patch is a LIBCL patch.

Table 3-1   Operating system patches and updates for NetBackup *(continued)*

Operating system type and version	Patch	Notes
	PHSS_37516	Contains fixes for the following: ■ `QXCR1000593919:` `purifyplus` dumps core in PA32 ■ `QXCR1000589142:` `dld` crash in LL_new_descendent_list when the `aCC` application is exiting. ■ `QXCR1000589142:` `dld` crash in LL_new_descendent_list when the `aCC` application is exiting. ■ `QXCR1000746161:` `dlsym()` hangs ■ `QXCR1000593999:` `dld` emits assert messages for `chatr` `+mem_check` enabled 64-bit executables
	PHSS_26946	This patch is necessary to enable any C++ runtime code to work properly.
	PHSS_27740	This patch is a `libc` cumulative patch.
	PHSS_26560	This patch contains a linker tools cumulative patch.
	PHSS_32864	That is a recommended critical patch from HP that is required for successful NetBackup client backups.
	PHKL_26233	This patch enables `HP-UX 11.11` `mmap()` to use large files from 2GB to 4GB.
	PHSS_35379	That is a recommended critical patch from HP that is required for successful NetBackup client backups.
	PHCO_29029	That is a recommended critical patch from HP that is required for NetBackup to use VxSS.

Table 3-1 Operating system patches and updates for NetBackup *(continued)*

Operating system type and version	Patch	Notes
	PHSS_24045	Allow `POLL_INTERVAL` to be set to zero in `/var/stm/config/tools/monitor/dm_stape.cfg`. That disables the `dm_stape` monitor within the Event Monitoring System. Symantec recommends that you upgrade to IPR0109.
	PHSS_30970	This patch can cause problems with the programs that have the `setuid` bit set. Hewlett-Packard 's IT resource center Web site contains information about this patch. `www1.itrc.hp.com`
	PHCO_35743	S700_800 11.11 libc cumulative patch The above patch has dependency on the following patches: ■ PHCO_31923 (critical patch): s700_800 11.11 libc cumulative header file patch ■ PHKL_34805 : 700_800 11.11 JFS3.3 patch; mmap
HP-UX 11.23	PHSS_37201	This patch is required for JAVA 6.0.
	PHCO_33431	Symantec recommends that all customers running 11.23 install this patch.
	PHSS_34858	That is a recommended critical patch from HP that is required so that `dlopen` works properly.
	PHKL_31500	That is a recommended critical patch from HP that NetBackup requires, particularly when you attempt to run NetBackup with NetBackup Access Control (NBAC).

Table 3-1   Operating system patches and updates for NetBackup *(continued)*

Operating system type and version	Patch	Notes
	PHSS_37492	Contains fixes for the following: ■ QXCR1000593919: purifyplus dumps core in PA32 ■ QXCR1000589142: dld crash in LL_new_descendent_list when the aCC application is exiting. ■ QXCR1000746161: dlsym() hangs ■ QXCR1000593999: dld emits assert messages for chatr +mem_check enabled 64-bit executables
HP-UX 11.31	PHSS_37202	This patch is required for JAVA 6.0.
	QPK1131 (B.11.31.0809.326) patch bundle	This patch bundle is required for NetBackup media server support. That is an HP-UX September 2008 patch bundle.
SUSE Linux Enterprise Server 10 x64	SUSE Linux Enterprise Server 10 update 2	The operating system version must be SUSE Linux Enterprise Server 10 update 2 or greater to run NetBackup 7.0.
Solaris 9 SPARC 64-bit client	111712-11 (or greater)	Change Request ID - 6815915
	111722-04 (or greater)	
	Patch: 112908-29 (or greater)	
	Patch: 112874-31 (or greater)	
	122300-53	Change Request ID - 6723423
Solaris 10 SPARC 64-bit (server and client)	update 4 (08/07) and newer	The server is supported on update 4 (08/07) and newer.
	139555-08	Change Request ID - 6723423
	119963-21	Change Request ID - 6815915
Solaris 10 x64	119964-21	Change Request ID - 6815915

Table 3-1   Operating system patches and updates for NetBackup *(continued)*

Operating system type and version	Patch	Notes
	139556-08	Change Request ID - 6723423
Windows XP x86-32	KB936357	Microsoft microcode reliability update.
Windows XP x86-64	KB928646	Hot fix for hangs of connection attempts by PBX.
Windows Vista x86-32	KB936357	Microsoft microcode reliability update.
	KB952696	Contains the necessary updates to ensure that you can back up encrypted files.
Windows Vista x86-64	KB936357	Microsoft microcode reliability update.
	KB952696	Contains the necessary updates to ensure that you can back up encrypted files.
Windows Server 2003 IA64 (SP1 & SP2)	KB913648	Contains the necessary updates to run Volume Shadow Copy.
	KB928646	Hot fix for hangs of connection attempts by PBX.
Windows Server 2003 x86-32 (SP1 & SP2)	KB883646	Microsoft Storport hot fix.
	KB913648	Contains the necessary updates to run Volume Shadow Copy.
	KB936357	Microsoft microcode reliability update.
Windows Server 2003 x86-32 (SP2)	KB971383	TCP/IP protocol driver triggers a disconnect event randomly. Required for master and media servers.
Windows Server 2003 x86-64 (SP1 & SP2)	KB883646	Microsoft Storport hot fix.
	KB913648	Contains the necessary updates to run Volume Shadow Copy.

Table 3-1 Operating system patches and updates for NetBackup *(continued)*

Operating system type and version	Patch	Notes
	KB928646	Hot fix for hangs of connection attempts by PBX.
	KB936357	Microsoft microcode reliability update.
Windows Server 2003 x86-64 (SP2)	KB971383	TCP/IP protocol driver triggers a disconnect event randomly. Required for master and media servers.
Windows Server 2008 x86-32	KB952696	Contains the necessary updates to ensure that you can back up encrypted files.
Windows Server 2008 x86-64	KB952696	Contains the necessary updates to ensure that you can back up encrypted files.
Windows Server 2008 IA64	KB952696	Contains the necessary updates to ensure that you can back up encrypted files.

VxFS and VxVM compatible versions

Table 3-2 shows the versions of VxFS and VxVM that are compatible with Symantec NetBackup, and the corresponding operating systems for each.

Table 3-2 Versions of VxFS and VxVM that are compatible with Symantec NetBackup

Operating system	OS Version	Version of VxFS	Version of VxVM	Notes
AIX 5L	5.3 (64 bit)	5.0 MP3 up to 5.1 SP1	up to 5.1 SP1	
	6.1 (64 bit)	5.0 MP3 and higher	5.0 MP3 and higher	
	7.1 (64 bit)	5.0 MP3 and higher	5.0 MP3 and higher	
HP-UX PA-RISC	11.11	3.3 and 3.5	3.5 only	
	11.23	3.5, 4.1, and 5.0	3.5, 4.1, and 5.0	
	11.31	4.1 and higher	4.1 and higher	

Table 3-2   Versions of VxFS and VxVM that are compatible with Symantec NetBackup *(continued)*

Operating system	OS Version	Version of VxFS	Version of VxVM	Notes
HP-UX IA64	11.31	4.1 and higher	4.1 and higher	
Red Hat Enterprise Linux 4.0 (AS)	IA64	4.1 to 4.1MP4RP4	4.1 to 4.1MP4RP4	
	POWER	5.0 LoP phase1, phase2, and phase 3 only	5.0 LoP phase1, phase2	
Red Hat Enterprise Linux 5.0 (AS)	x64	LxRT4.1MP4 and higher on the 4.1 line, 5.0MP3 and higher on the 5.0 line	LxRT4.1MP4RP1 and higher on the 4.1 line, 5.0MP3 and higher on the 5.0 line	
	IA64	LxRT4.1MP4 and higher on the 4.1 code line only	4.1MP4RP1 and higher in the 4.1 code line only	
	POWER	5.0RU3 and 5.0RU4 only	5.0RU3 and higher	
Red Hat Enterprise Linux 5.0 (base)	x64			
	IA64			
	POWER			
	z/Architecture			
Red Hat Enterprise Linux 6.0 (AS)	x64			
Red Hat Enterprise Linux 6.0 (base)	x64			
	z/Architecture			
Solaris 9, 10, 11, 11 Express	SPARC	5.1SP1 and higher	5.1SP1 and higher	
Solaris 10, 11, 11 Express	x64	4.1 MP2 and higher	4.1 MP2 and higher	
SUSE Linux Enterprise Server 10	x64	4.1MP3 and higher in 4.1 codeline. 5.0MP3 and higher on 5.0 codeline.	4.1MP3 and higher in 4.1 codeline. 5.0MP3 and higher on 5.0 codeline.	

Table 3-2 Versions of VxFS and VxVM that are compatible with Symantec NetBackup *(continued)*

Operating system	OS Version	Version of VxFS	Version of VxVM	Notes
	IA64	4.1MP3 and higher in 4.1 codeline only.	4.1MP3 and higher in 4.1 codeline only.	
	POWER	5.0RU3 and 5.0RU4 only	5.0RU3 and higher	
SUSE Linux Enterprise Server 11	x64	5.0RU1 and higher	5.0RU1 and higher	
	IA64	NA	NA	
	POWER	5.0RU4 and higher	5.0RU4 and higher	
Windows	x86	NA	4.3 and higher	
Windows	x64	NA	4.3 and higher	

NetBackup has improved its integration with the Veritas File System (VxFS) product to ensure interoperability on all compatible VxFS versions. If you run a VxFS version that is older than VxFS 4.0 then you need to install new VxFS libraries on the client to back up the systems that run VxFS. You can search and download the appropriate VxFS libraries to your system from Patch Central on the Symantec Support Web site.

See, `https://sort.symantec.com/labs/patch`.

See, `http://entsupport.symantec.com/docs/320193`.

Operational notes

This chapter includes the following topics:

- About operational notes in NetBackup 7.1.0.4

- About general NetBackup 7.1.0.4 notes

- About NetBackup OpsCenter limitations

About operational notes in NetBackup 7.1.0.4

This chapter contains the topics that explain important aspects of NetBackup 7.1.0.4 operations that may not be documented elsewhere in the NetBackup documentation set. This document is posted on the Symantec Support Web site and may be updated after the GA release of NetBackup 7.1.0.4. Therefore, Symantec recommends that you refer to the following Technote on the Symantec Support Web site to view the latest release information.

http://www.symantec.com/docs/DOC5201

See "NetBackup 7.1.0.4 Emergency Engineering Binary (EEB) listing" on page 115.

The following links enable you to view previous NetBackup 7.1.0.x Release Note documents:

- *Symantec NetBackup 7.1.0.3 Release Notes for UNIX, Windows, and Linux*
  http://www.symantec.com/docs/DOC4886

- *Symantec NetBackup 7.1.0.2 Release Notes for UNIX, Windows, and Linux*
  http://www.symantec.com/docs/DOC4517

- *Symantec NetBackup 7.1.0.1 Release Notes for UNIX, Windows, and Linux*
  http://www.symantec.com/docs/DOC3941

About general NetBackup 7.1.0.4 notes

The following operational notes pertain to the general functionality of this release of NetBackup.

- To use multi-process architecture, the master server, the media server, and the client need to be at NetBackup 7.1.0.4 levels in a mixed environment. For example, if the master and the media server is at a 7.1.0.3 level and the client is at 7.1.0.4, then it automatically reverts to the old architecture.

- The `BackupHeaderFile` parameter in the `contentrouter.cfg` file should be in the disabled state by default.

  In the unlikely event that the parameter is not disabled by default, do the following:

  - Install and configure the media server deduplication Pool by upgrading to NetBackup 7.1.0.4.

  - Check the `contentrouter.cfg` file for the parameter `BackupHeaderFile`.

  - At present, this parameter is in the `True` state. That causes a lot of disk space to be consumed because many `#.bhd.bak` files are created within `/Storage/data/`. To check whether the parameter is enabled, use one of the following commands:

    - `/usr/openv/pdde/pdag/bin/pdcfg --read=<STORAGE>/etc/puredisk/contentrouter.cfg --section=CRDataStore --option=BackupHeaderFile`

    - `<WINDOWS_INSTALL_PATH>\pdde\pdcfg.exe --read=<STORAGE>\etc\puredisk\contentrouter.cfg --section=CRDataStore --option=BackupHeaderFile`

  - By default, this parameter should be in the `False` state in NetBackup 7.1.0.4. If it is not, use one of the following commands to disable the parameter:

    - `/usr/openv/pdde/pdag/bin/pdcfg --write=<STORAGE>/etc/puredisk/contentrouter.cfg --section=CRDataStore --option=BackupHeaderFile --value=false`

    - `<WINDOWS_INSTALL_PATH>\pdde\pdcfg.exe --write=<STORAGE>\etc\puredisk\contentrouter.cfg --section=CRDataStore --option=BackupHeaderFile --value=false`

- During automated test installations on Windows x86 systems, the following error occurs intermittently during new NetBackup 7.1.0.4 installations:

  ```
  ERROR: NetBackup Database Creation Failed!
  ```

Failures did not occur when new NetBackup 7.1.0.4 installations were performed manually. Manual installations are those typically performed by a network administrator.

In the unlikely event that this error occurs, do the following:

- Exit from the NetBackup 7.1.0.4 Installation Wizard.

- Check the Windows Registry for the following entries and remove them:
  ```
  HKEY_LOCAL_MACHINE\SOFTWARE\Veritas\NetBackup*\*
  HKEY_LOCAL_MACHINE\SOFTWARE\VERITAS\VxDBMS
  ```

- Reinstall NetBackup 7.1.0.4.

■ Please read if you installed NetBackup 7.1 with PDBs.
This release of NetBackup can be rolled back to a previous release. However, during the installation of NetBackup 7.1.0.3, one of the NetBackup PDB files is incorrectly removed as part of the Sybase upgrade that is performed. If you uninstall 7.1.0.3 and then attempt to uninstall NetBackup 7.1, the NetBackup 7.1 uninstall process fails because the PDB file is not present.
If you encounter this issue, you should manually create the file the following file before you attempt to uninstall NetBackup 7.1.
```
INSTALLDIR\NetBackupDB\Win64\libsybackubr.pdb
```

■ When restoring a SharePoint Web Application (2007 or 2010) where the IIS settings and content databases no longer exist, make sure to uncheck the **Preserve existing IIS Web site and application pool (SharePoint 2007 and later versions)** check box on the **Restore Marked Files** dialog.

■ When restoring one of many SharePoint content databases (2007 or 2010), select the database(s) to restore and ensure that the "Preserve existing IIS Web site and application pool (SharePoint 2007 and later versions)" is checked on the **Restore Marked files** dialog box. The restore does not delete the Web Application or unprovision the other content databases from the Web application.

■ When restoring a Shared Services Provider that does not exist anymore, restore the components in the following order in separate jobs:

- Restore the index files.

- Restore the associated SharedServices Web application.

- Restore the ShareServices databases (`Services-DB` and the `Search-DB`).

■ Virtual Machine (VM) data collection may fail and cause the policy data collection to also fail. That may occur the first time OpsCenter performs the VM data collection that is followed by the policy data collection.

- When LiveUpdate is used to apply the patch to an FT (Fibre Transport) Media server, you must run the `/usr/openv/netbackup/bin/admincmd/nbftsrvr_config` script manually, on the FT Media server, after the patch installation is complete.
  The patch includes the newer device drivers which are not installed as part of the LiveUpdate process. The `nbftsrvr_config` script installs the correct drivers.
  For more information on using the nbftsrv_config script, see the paragraph: "Configuring the media server FT services" of Section 5. "Configuring SAN Client and Fibre Transport" of the *Symantec NetBackup SAN Client and Fibre Transport Guide*.

- During the rerouting process, the backup and the duplication can fail with status code 83 errors (media open) and status code 84 errors (media write). In the beginning of the rerouting process, there are several opportunities where active backup, restore, and duplication jobs may abort. Once the rerouting process workflow has reached the point where the following message appears, the backups, restores, and duplication jobs continue to work.

  ```
  Content router is rerouting data
  ```

  The "`Content router is rerouting data`" appears in the primary rerouting step in the process, and it may run for several hours or even days in large environments.

- During a virtual machine restore with the SAN transport mode, if any of the virtual machine's vmdk files are not a multiple of the VMFS block size, the last partial-block write may fail. As a result, the restore job fails with status 2820. VMware has acknowledged this issue (see http://kb.vmware.com/kb/1035096). The NetBackup job details log may contain messages similar to the following:

  ```
  12/12/2011 3:12:28 AM - Critical bpbrm(pid=3560) from client
  iolite.min.vrts.com: FTL - Virtual machine restore: file write failed
  ...
  12/12/2011 3:23:00 AM - end Restore; elapsed time: 00:23:32 VMware policy
  restore error(2820)
  ```

  As a workaround, use the `NBD` or the `NBDSSL` transport mode when you restore the virtual machine.

- A bug in VMware vSphere prevents the full reporting of write failures to an offline SAN disk during a virtual machine restore. If a write failure to an offline SAN disk occurs during a restore over the SAN, NetBackup may be unable to detect the error. The restore operation appears successful but the restored vmdk files may not contain any data.

Make sure that the status of the SAN disk on the restore host is "online" (not "offline"). You can use the Windows `diskpart.exe` utility or the Disk Management utility (`diskmgmt.msc`) to verify or change the disk status. When the disk status reads **online**, retry the restore.

Symantec has a VMware support request on this issue (SR# 11116606511).

- During a backup, a VM that is configure with vSphere 5 cannot be changed. The VM is held until the backup is finished.

- With vSphere 5 and NetBackup 7.1.0.3, you are not able to backup and restore a DRS configuration or specify a datastore cluster as the target of a restore.

- Restoring a virtual machine with the `nbdssl` transport mode fails if the destination is an ESX 3.5u 5 server that vCenter 5.0 manages. The **Job Detailed Status** log contains messages similar to the following:

```
6/14/2011 7:09:13 PM - Critical bpbrm(pid=4068) from client vnet8:
FTL - Virtual machine restore: VxMS initialization failed".
Job id = [17].
```

This error results from a VMware issue and is reported as VMware Support Request 11107948110.

As a workaround, do one of the following:

- Enter NetBackup credentials for the 3.5 ESX server as a **VMware Restore ESX Server**. That ESX server performs the restore.

- Use the `nbd` transport mode to restore the virtual machine (not `nbdssl`).

- On an ESX 3.5 server that a 4.0 (or later) vCenter server manages, a virtual machine backup or restore by means of the `hotadd` transport mode fails. This error results from a known issue in VMware licensing (VMware support request 11081899907).

Note the following workarounds:

- Use the `nbd` transport mode instead of hotadd.

- Use the `hotadd` transport mode with an ESX 3.5 server that vCenter 2.5 manages.

- Use the `hotadd` transport mode with an ESX 4.x or 5.x server.

- An issue with VMware VDDK 5.0 prevents the full reporting of write failures to an offline SAN disk during a virtual machine restore. If a write failure to an offline SAN disk occurs during a restore over the SAN, NetBackup may be unable to detect the error. The restore operation appears successful but the restored vmdk files may not contain any data.

Make sure that the status of the SAN disk on the restore host is online (not offline). Disk status can be checked or changed using the Windows diskpart.exe utility or the Disk Management utility (diskmgmt.msc). When the disk status reads online, retry the restore.

See the following VMware articles for more information:
https://www.vmware.com/support/developer/vddk/VDDK-500-ReleaseNotes.html
http://kb.vmware.com/kb/2010428

■ The *NetBackup for Microsoft SharePoint Server Administrator's Guide* should state that only Full images can be used for redirection of a Web application. That applies to the following sections:

   ■ "Redirecting a restore of a SharePoint Web application within a farm"

   ■ "Redirecting a restore of a SharePoint Web application to another farm"

About NetBackup OpsCenter limitations

The following operational notes pertain to NetBackup's OpsCenter.

General NetBackup OpsCenter notes

The following list contains the known issues that pertain to NetBackup OpsCenter for this release.

■ Symantec recommends that while a view is created, the lowest level of the view should be an object that a data collector creates. A data collector can be a master server, policy, client, and so forth. For example, if you create a view that is called **Geography** the lowest level can be an object like **adrian.vxa.symantec.com** or **serena.vxa.symantec.com**. It cannot be any other hypothetical object like **Region**, **Continent**, and so forth.
For example:

```
Geography
    | - US
        | - Colorado
            | - adrenalize.vxindia.veritas.com
```

In this example, **US**, and **Colorado** are the hypothetical nodes that are not associated with any data collector. The lowest-level of the view is **adrenalize.vxindia.veritas.com** which is an object that the data collector creates. You can create such views.

You should not create any view like the following where the lowest level of the view is a hypothetical object like Denver.

```
Geography
    | - US
        | - Colorado
            | - adrenalize.vxindia.veritas.com
                | - Denver
```

- You cannot install the OpsCenter 7.1 Language Pack after you install OpsCenter 7.1.0.x. If you attempt to install the OpsCenter 7.1 Language Pack after you have installed OpsCenter 7.1.0.x on Windows, the installer stops. In addition, it displays the following error message:

  `The Release Update version must be the same as Language Pack`
  `version. You must use Language Pack 0.1.`

  If you have already obtained the OpsCenter 7.1.0.x Language Pack , please perform one of the following:

  - If you have not installed 7.1 Language Pack but already installed 7.1.0.x, you must install the 7.1.0.1 Language Pack.

  - If you installed 7.1 Language Pack but have not installed 7.1.0.x you must do the following:
    - Uninstall the 7.1 Language Pack.
    - Install OpsCenter 7.1.0.x.
    - Install the 7.1.0.x Language Pack.

  If you have not obtained the 7.1.0.x Language Pack yet, please perform one of the following:

  - Wait to upgrade to OpsCenter 7.1.0.x until the 7.1.0.x Language Pack is available.

  - If you have already installed 7.1.0.x, you must uninstall it, then install the 7.1 Language Pack, and then install OpsCenter 7.1.0.x again.

  A mismatch between an English base product and a language pack may result in a fatal error.

  Symantec plans to release OpsCenter 7.1.0.x Language Pack on the Symantec support Web site within a few weeks after OpsCenter 7.1.0.x.

  Symantec recommends that you wait to upgrade to 7.1.0.x until the 7.1.0.x Language Pack is available, unless you need to upgrade to 7.1.0.x immediately.

- This issue is specific to Windows 2003 64-bit computers. The Add or Remove Programs screen displays all maintenance patches of the OpsCenter Agent and View Builder that were installed before OpsCenter 7.1.0.4. It should display only the latest maintenance patch.

  You should first uninstall the latest OpsCenter patch and then uninstall the older patches. For example, if the OpsCenter Agent 7.1.0.4 is the latest patch

installed, then you should first uninstall it. Then you should uninstall the older patches, such as 7.1.0.3.

About uninstalling OpsCenter 7.1 before you install OpsCenter 7.1.0.x on UNIX

If you have installed OpsCenter 7.1.0.x and want to uninstall OpsCenter 7.1 from the system, Symantec recommends that you first uninstall OpsCenter 7.1.0.x.

That applies to both OpsCenter Server and OpsCenter Agent. If you uninstall OpsCenter 7.1 before you uninstall OpsCenter 7.1.0.x, you need to perform the steps in the following sections.

- Uninstalling OpsCenter Server 7.1 before uninstalling OpsCenter Server 7.1.0.x

- Uninstalling OpsCenter Agent 7.1 before uninstalling OpsCenter Agent 7.1.0.x

Uninstalling OpsCenter Server 7.1 before uninstalling OpsCenter Server 7.1.0.x

When you try to uninstall OpsCenter Server 7.1, before you uninstall OpsCenter Server 7.1.0.x, the installer prompts you with the following message:

Do you want to uninstall package SYMCOpsCenterPatch710x from <host_name> which is dependent on package SYMCOpsCenterServer? [y,n,q,?] (n)

The default option is '**n**' here. You must type '**y**' to uninstall OpsCenter Server 7.1.0.x before 7.1.

Note: : In case you enter '**n**' for this prompt, only the OpsCenter Server 7.1 gets uninstalled and dependent 7.1.0.x package entries are left. These package entries must be manually removed from the system if you want to reinstall OpsCenter Server 7.1.0.x.

The installer also prompts you about any other dependent packages if applicable. You can select the default option (n) for any additional prompts. For example, you may see the following prompt:

Do you want to uninstall package VRTSOpsCenterLegacyAgent from <host_name> which is dependent on package VRTSpbx? [y,n,q,?] (n)

You can type '**n**' and proceed as you need to uninstall the OpsCenter Agent separately.

To remove any dependent 7.1.0.x package entries, remove the
OpsCenterServerPatch directory. The OpsCenterServerPatch directory is located
in /var/symantec.

If you have not followed the uninstall procedure correctly, you may get the
following error message, while reinstalling OpsCenter Server 7.1.0.x.

**CPI ERROR V-9-0-0 Patch entry verification failed. It looks that earlier patch
uninstallation did not completed properly.**

You need to manually uninstall the OpsCenter 7.1.0.x components. Before manually
uninstalling OpsCenter 7.1.0.x, first confirm that the OpsCenter Server 7.1.0.x is
still installed.

1   Run the following commands for specific platforms, to first confirm that OpsCenter 7.1.0.x is still installed. These commands use the 7.1.0.1 release as an example:

Note: The following commands show the 7.1.0.1 release as an example:

Linux	`rpm -q SYMCOpsCenterPatch7101`
Solaris	`pkginfo SYMCOpsCenterPatch7101`
HP-UX	`swlist SYMCOpsCenterPatch7101`
AIX	`lslpp -l SYMCOpsCenterPatch7101`

2   When it is confirmed that OpsCenter Server 7.1.0.x is installed, run the following commands for specific platforms to uninstall the patch from your system.

Note: The following commands show the 7.1.0.1 release as an example:

Linux	`rpm -e SYMCOpsCenterPatch7101` `rpm -e SYMCOpsCenterServer`
Solaris	`pkgrm SYMCOpsCenterPatch7101` `pkgrm SYMCOpsCenterServer`
HP-UX	`swremove -x enforce_dependencies=false -x mount_all_filesystems=false SYMCOpsCenterPatch7101` `swremove -x enforce_dependencies=false -x mount_all_filesystems=false SYMCOpsCenterServer`
AIX	`installp -u SYMCOpsCenterPatch7101` `installp -u SYMCOpsCenterServer`

3   Then run the following command: `rm -f /var/symantec/OpsCenterServerPatch`

Uninstalling OpsCenter Agent 7.1 before uninstalling OpsCenter Agent 7.1.0.x

When you try to uninstall OpsCenter Agent 7.1, before you uninstall OpsCenter Agent 7.1.0.x, the installer prompts you with the following message:

Do you want to uninstall package SYMCOpsCenterAgentPatch710x from <host_name> which is dependent on package SYMCOpsCenterAgent? [y,n,q,?] (n)

The default option is '**n**' here. You must type '**y**' to uninstall OpsCenter Agent 7.1.0.x before 7.1. Note: In case you enter '**n**' for this prompt, only the OpsCenter Agent 7.1 gets uninstalled and dependent 7.1.0.x package entries remain. These package entries must be manually removed from the system if you want to reinstall OpsCenter Agent 7.1.0.x.

The installer also prompts you about any other dependent packages if applicable. You can select the default option (**n**) for any additional prompts. For example, you may see the following prompt:

Do you want to uninstall package VRTSOpsCenterLegacyServer from <host_name> which is dependent on package VRTSpbx? [y,n,q,?] (n)

You can type '**n**' and proceed as you need to uninstall the OpsCenter Agent separately. To remove any dependent 7.1.0.x package entries, remove the **OpsCenterAgentPatch** directory. The **OpsCenterAgentPatch** directory is located in /var/symantec.

If you have not followed the uninstall procedure correctly, you may get the following error message, while installing OpsCenter 7.1.0.x again.

CPI ERROR V-9-0-0 Patch entry verification failed

You need to manually uninstall the OpsCenter 7.1.0.x components. Before manually uninstalling OpsCenter 7.1.0.x, first confirm if that the OpsCenter Agent 7.1.0.x is still installed.

1 Run the following commands for specific platforms, to confirm that OpsCenter 7.1.0.x is still installed.

Note: The following commands show the 7.1.0.1 release as an example:

Linux	`rpm -q SYMCOpsCenterAgentPatch7101`
Solaris	`pkginfo SYMCOpsCenterAgentPatch7101`
HP-UX	`swlist SYMCOpsCenterAgentPatch7101`
AIX	`lslpp -l SYMCOpsCenterAgentPatch7101`

2 Once it is confirmed that OpsCenter Agent 7.1.0.x is installed, run the following commands for specific platforms to uninstall the patch from your system.

Note: The following commands show the 7.1.0.1 release as an example:

Linux	`rpm -e SYMCOpsCenterAgentPatch7101`
	`rpm -e SYMCOpsCenterAgent`
Solaris	`pkgrm SYMCOpsCenterAgentPatch7101`
	`pkgrm SYMCOpsCenterAgent`
HP-UX	`swremove -x enforce_dependencies=false -x mount_all_filesystems=false SYMCOpsCenterAgentPatch7101`
	`swremove -x enforce_dependencies=false -x mount_all_filesystems=false SYMCOpsCenterAgent`
AIX	`installp -u SYMCOpsCenterPatch7101`
	`installp -u SYMCOpsCenterAgent`

3 Then run the following command:`rm -f /var/symantec/OpsCenterAgentPatch`

NetBackup 7.1.0.4 rehydration improvements

This appendix includes the following topics:

- About the NetBackup rehydration improvements for deduplicated files
- About the environmental factors that affect the rehydration performance
- Changes and updates to the deduplication tuning parameters that affect restore performance and rehydration performance
- Editing the ReadBuffer Size parameter
- NetBackup tuning parameters
- About the server-side rebasing process
- Manual client-side rebasing

About the NetBackup rehydration improvements for deduplicated files

This release of NetBackup contains several changes that can improve restore performance and rehydration performance.

When a client is backed up to deduplicated storage, its files are divided into segments and written to disk. When the file changes, the backup software analyzes the changes in the file and writes the changed segments to disk. To restore the file, the backup software reassembles it from the segments and writes rehydrated or restored file back to disk or tape.

Under certain circumstances, a file's segments might become increasingly scattered across the disk storage units. That occurs over time as the file continues to change

and continues to be backed up. When you request a restore of one of these files, the backup software must find and reassemble the file. However, the longer and older the file becomes, the longer it takes find the segments and assemble the file. Slow disk speeds and slow tape mounting speeds can further degrade restore performance.

Duplicating to tape is particularly sensitive to low transfer rates. Data transfer to physical tape is optimal when the source data streaming rate matches or exceeds the minimum streaming rate of the physical tape drive. If the transfer rate from the source storage is less than this minimum streaming rate, the tape drive can write even more slowly than the source data streaming rate.

If you applied the NetBackup rehydration update, you can safely apply NetBackup 7.1.0.4. Parameters you set are untouched by the NetBackup 7.1.0.4 installation process.

The following topics describe the rehydration features in NetBackup 7.1.0.4:

- See "About the environmental factors that affect the rehydration performance" on page 46.

- See "Changes and updates to the deduplication tuning parameters that affect restore performance and rehydration performance" on page 47.

- See "Editing the ReadBuffer Size parameter" on page 48.

- See "NetBackup tuning parameters" on page 49.

About the environmental factors that affect the rehydration performance

Generally, restore jobs and tape rehydration jobs complete more quickly in a backup environment that includes fast disks and a fast network. The NetBackup 7.1.0.4 release update includes several new tuning parameters that can improve performance.

If the restore performance or the rehydration performance does not improve after you upgrade to NetBackup 7.1.0.4, examine one or more of the following:

- On-disk placement of a file's backup segments and on-disk distance between the backup segments

- Disk speed

- Data transfer connection

- CPU performance

- System state

NetBackup 7.1.0.4 rehydration improvements | 47
Changes and updates to the deduplication tuning parameters that affect restore performance and rehydration
performance

- Backup image size

- Backup file size

- System memory (RAM)

- Tape mounting and tape repositioning

Changes and updates to the deduplication tuning parameters that affect restore performance and rehydration performance

NetBackup includes the following changes and additions to deduplication tuning parameters:

- New parameters in the `pd.conf` file. The new parameters and their settings are as follows:

  - `PREFETCHSIZE=33554432`

  - `RESTORE_DECRYPT_LOCAL=0`

  - `META_SEGKSIZE=16384`

- New `PrefetchThreadNum` parameter in the `[CRDataStore]` section of the `contentrouter.cfg` file. By default, this parameter is `PrefetchThreadNum=1`.

The following topics contain more information about these parameters:

- See "PREFETCH_SIZE parameter" on page 47.

- See "RESTORE_DECRYPT_LOCAL parameter" on page 47.

- See "META_SEGKSIZE parameter" on page 48.

- See "PrefetchThreadNum parameter" on page 48.

PREFETCH_SIZE parameter

This parameter resides in the `pd.conf` file. It specifies the buffer size, in bytes, that NetBackup uses when it prefetches data segments for restore operation. The default is `33554432`. Symantec recommends that you do not change this value unless instructed to do so by a technical support staff member.

RESTORE_DECRYPT_LOCAL parameter

This parameter resides in the `pd.conf` file. It specifies where decryption and decompression occur during restores. The default is 0, which enables decryption

and decompression on the media server. When you set `RESTORE_DECRYPT_LOCAL=1`, NetBackup performs decryption and decompression on the client.

Depending on your environment, you might want to change this setting to obtain better performance.

META_SEGKSIZE parameter

This parameter resides in the `pd.conf` file. It specifies the segment size for metadata streams. This setting determines the segment size that is used to write the `.hdr` and `.map` images.

The default is `16384` and is specified in terms of KB. The size you specify must be a multiple of 32 and fall in the range 32-16384. Symantec recommends that you do not change this value unless instructed to do so by a technical support staff member.

PrefetchThreadNum parameter

This parameter specifies the number of threads that are used to preload segments when data is restored. By default, this parameter is `PrefetchThreadNum=1`.

Symantec recommends that you keep this parameter's default setting, which is **1**. Depending on your disks, you might obtain better performance with a value as high as **4**. However, significant testing on your part is needed to ensure that a value greater than **1** yields better performance. Poorer performance can result from increasing this parameter.

Editing the ReadBuffer Size parameter

The `ReadBufferSize` parameter resides in the `[CRDataStore]` section of the `contentrouter.cfg` file. By default, the NetBackup update sets `ReadBufferSize=65536`.

On most Linux and UNIX systems, Symantec testing has shown that `ReadBufferSize=65536`, the default, generally offers good performance.

On most Windows systems, Symantec testing has shown that `ReadBufferSize=1048576`, which is 1M (or 1024 X 1024), generally offers good performance.

Depending on the read speeds you obtain from the content router disks in your backup environment, you might need to reset this parameter to obtain optimal restore speeds and rehydration speeds. Make sure to do your own testing and

reset the `ReadBufferSize` parameter if needed. The following procedure explains how to edit the `contentrouter.cfg` file.

To edit the contentrouter.cfg file on a PureDisk storage server

1 Use a text editor to open the content router configuration file on the storage server.

On Windows storage servers, the content router configuration file is at the following location:

`storage_path\etc\puredisk\contentrouter.cfg`

Note: On Windows systems, use `notepad.exe` to edit the `contentrouter.cfg` file. If you use a different editor, existing data in the file might become corrupted.

On Linux and UNIX storage servers, the content router configuration file is at the following location:

`storage_path/etc/puredisk/contentrouter.cfg`

2 Locate the `CRDataStore` section.

3 Edit the `ReadBufferSize` parameter in the `CRDataStore` section.

4 Save and close the file.

NetBackup tuning parameters

To obtain optimal restore and rehydration performance, Symantec recommends that you examine the following parameters that reside in tuning files:

■ `NET_BUFFER_SZ`

■ `NUMBER_DATA_BUFFERS`

■ `SIZE_DATA_BUFFERS`

Depending on your environment, these parameters might be set to values that are tuned to your backup environment. NetBackup does not reset these parameters.

If the restore performance and the rehydration performance do not improve after you apply NetBackup, consider setting or resetting these tuning parameters to the values in the following procedure.

To set the NetBackup tuning parameters

1 Determine whether the `NET_BUFFER_SZ`, the `NUMBER_DATA_BUFFERS`, and the `SIZE_DATA_BUFFERS` files are set on the media server.

These parameters are set in the tuning files that reside in the following directories:

- On Windows systems:

  ```
  install_path\NetBackup\NET_BUFFER_SZ
  install_path\NetBackup\db\config\NUMBER_DATA_BUFFERS
  install_path\NetBackup\db\config\SIZE_DATA_BUFFERS
  ```

- On Linux or UNIX systems:

  ```
  /usr/openv/netbackup/NET_BUFFER_SZ
  /usr/openv/netbackup/db/config/NUMBER_DATA_BUFFERS
  /usr/openv/netbackup/db/config/SIZE_DATA_BUFFERS
  ```

2 Back up the parameter files that currently exist. (Conditional)

Perform this step only if these files currently exist and are set to values that differ from the ones that are needed for rehydration.

3 Set the parameters to the following values:

- Set `NET_BUFFER_SZ` to 262144.

- Set `NUMBER_DATA_BUFFERS` to 64.

- Set `SIZE_DATA_BUFFERS` to 262144.

Note: If you have already changed these or other tuning parameters as a result of your own performance tests, do not change these parameters again. Please keep the values that currently exist in your backup environment. The preceding list shows the parameter values that Symantec used in its rehydration testing, and these values generally improve rehydration performance.

For information about how to set these parameters on a Windows media server, see the following tech note:

http://www.symantec.com/business/support/index?page=content&id=TECH18422

For information about how to set these parameters on a Linux or UNIX media server, see the following tech note:

http://www.symantec.com/business/support/index?page=content&id=TECH1724

4   Perform this procedure on all media servers in your NetBackup environment that are involved in the rehydration program.

You can reset these parameters again, if necessary.

5   Adjust other aspects of the backup environment if performance does not improve after you change the NetBackup tuning parameter settings.

If performance does not increase after you change the `NET_BUFFER_SZ`, the `NUMBER_DATA_BUFFERS`, and the `SIZE_DATA_BUFFERS` files, consider taking the following other actions:

■   Examine the tape configuration to see if changes can be made.

■   Change the `ReadBufferSize` parameter in the `contentrouter.cfg` file. For information about how to change this parameter, see the following: See "Editing the ReadBuffer Size parameter" on page 48.

About the server-side rebasing process

The following steps explain the steps that the system performs automatically when it performs a server side rebasing operation.

Steps in the server-side rebasing process

1   The content router monitors data objects from the day's backup images. It breaks the data objects into chunks with a preset size (for example, 10 GB). It then uses the following formula to analyze the extent to which the chunk's segments are fragmented (or scattered):

image_chunk_size / *number_of_containers* < `RebaseScatterThreshold`

The `RebaseScatterThreshold` parameter is a rebasing threshold that you can set in the `contentrouter.cfg` file. For more information about this parameter, see the *NetBackup Deduplication Guide.*

If the data segments in a container occupy less space than the preset rebasing threshold, the segments within the container are considered to be fragmented. These are candidates for rebasing. For example, if the data segments occupy 16MB out of a 256MB container, then the backup image has poor data locality and is a candidate for rebasing.

For each rebasing candidate, the `spoold` process logs an entry to the following location:

■   Windows: *dedup_folder*\data\journal\rebase_*mmddyyyy*.log

■   UNIX: *dedup_directory*/data/journal/rebase_*mmddyyyy*.log

The entry contains the data object fingerprint, a colon (:), and a comma-separated list that consists of the following information:

- The Chunk size.

- The segment object start index in data object.

- The segment object end index in data object.

- The number of containers storing the chunk's segment objects.

- The fragmentation threshold that is specified in the `RebaseScatterThreshold` parameter.

2 The content router monitors its activities and initiates rebasing on a candidate that was logged on the preceding day. The content router performs the rebasing activity when it is not busy with other activities.

3 Before you start a rebasing operation on a logged candidate, the content router again analyzes the extent to which the data object's segments are scattered. The content router performs this second analysis because at this time, the data object may be less fragmented because of the rebasing operations on the other data objects. This situation arises because segments are shared among all backup images or chunks.

4 For each DO that is a candidate for rebasing, the content router sends the segment's location information to the segment prefetch queue for read-ahead operation.

5 The `spoold` process reads segments.

   It uses the data store read API that handles operation conflicts.

6 The `spoold` process writes read segments into the backup segment queue with the same source ID as the first segment of the chunk and with the same session ID as the data object's. Write the transaction log (`tlog`) entries into the spool queue during the compaction operation to update each relocated segment's container ID.

7 Commit or roll back the rebasing operation. The content router rolls back the rebasing actions only if an error occurred during the rebasing.

Manual client-side rebasing

NetBackup 7.1.0.4 supports and recommends client-side rebasing.

Automatic server-side rebasing increases restore performance. If additional performance is needed, you can perform a client-side rebasing. Client-side rebasing is a manual process. You can rebase the clients in the deduplication pool, run

some restore jobs, and measure rehydration performance again. This sequence of tasks is particularly important if the deduplication pool has larger, older files. In these older production pools, the stored segments can be scattered among many data store containers. Without rebasing, the improvement from the rehydration updates can take a long time to be observed. In these older environments, it is very important to rebase the deduplication pool immediately after you apply one of the releases that includes rehydration improvements and before you attempt any restores.

The following notes pertain to specific client types:

- Clients, including VMware clients, that have the same operating system platform installed share a lot of common segments. Choose one typical client computer from one operating system platform to perform image rebasing. For example, assume that a backup policy is used to protect 400 VMware computers and three Windows operating systems are used: Windows 2008, 7, and Windows Server 2003. In this case, set the `CLIENT_POLICY_DATE` parameter for each platform on the media server through which VMware backups are performed. When added to the `pd.conf` file, the following three parameters enable rebasing on three of the 400 VMware computers:

  - `CLIENT_POLICY_DATE=clienthostx_withWindows2008,policy_x,08/31/2011`

  - `CLIENT_POLICY_DATE=clienthosty_withWindows2003,policy_y,08/31/2011`

  - `CLIENT_POLICY_DATE=clienthostz_withWindows7,policy_z,08/31/2011`

  The procedure in this topic contains more information about how to use the `CLIENT_POLICY_DATE` parameter.

- The only way to perform an image rebasing on remote office clients is to use a one-time rebasing. To perform this rebasing, make sure that all other non-remote office image rebasing has been done. If the remote office backup image tape-out performance is still not good, you can restore some typical remote office client backup images to a local disk and then back up the restored data to a content router. That assumes that it is impossible for the remote office client to send all segments to the content router.

The `CLIENT_POLICY_DATE` parameter controls client-side rebasing. The procedure in this topic describes how to use the `CLIENT_POLICY_DATE` parameter.

Note: When you edit the `pd.conf` file, make sure that you do not include any blank lines in the file. The `pd.conf` file cannot contain blank lines.

To rebase a deduplication pool

1   Identify the NetBackup restores or deduplications to tape that perform poorly.

2   Identify the clients and policies that the poor restore rates affect.

3   Plan to rebase the clients in small groups.

As part of image rebasing, the client sends all its segments to the content router. To prevent the temporary content router back-end storage threshold from exceeding its maximum allowed usage, make sure to limit image rebasing to a small number of backup clients at a time.

4   Add the CLIENT_POLICY_DATE parameter to the pd.conf file on the media server that is attached to the clients.

On UNIX and Linux platforms, the full path to this file is
/usr/openv/lib/ost-plugins/pd.conf.

On Windows platforms, the full path to this file is
install_path\Veritas\NetBackup\bin\ost-plugins\pd.conf.

This parameter's format is as follows:

CLIENT_POLICY_DATE=*client_host_machine*,*backup_policy*,*date*

This parameter accepts the following values:

■   For *client_host_machine*, specify the client host name exactly as it appears in the backup policy.

■   For *backup_policy*, specify the name of the backup policy' that protects this client.

■   For *date*, specify the date upon which this client will be backed up again, or specify a date in the near future. Use *mm*/*dd*/*yyyy* date format.

You can specify multiple CLIENT_POLICY_DATE parameters in a pd.conf file, as follows:

```
CLIENT_POLICY_DATE=client1,files1pol1,07/21/2011
CLIENT_POLICY_DATE=client1,files2pol2,06/30/2011
```

You can specify as many CLIENT_POLICY_DATE parameters as you want in the pd.conf file, but only the first 20 are processed. The backup software limits its processing to 20 clients at a time, which helps to prevent unintended content router overflow. After rebasing is complete, you can remove these CLIENT_POLICY_DATE parameter entries from the pd.conf file.

5   Run the backup for these clients.

After the backup for this client finishes, examine the rebasing information in the NetBackup job details.

The following example shows a job details listing:

```
7/3/2011 4:50:57 PM - Info ide301tg1(pid=7892) StorageServer=PureDisk:ide301tg1;
Report=Image rebasing PDDO Stats for (ide301tg1): scanned: 9974609 KB, stream rate:
111.09 MB/sec, CR sent: 9974609 KB, dedup: 0.0%, cache hits: 0 (0.0%)
```

The 0.0% deduplication rate is normal for a completed rebasing job.

6   Delete or comment out the CLIENT_POLICY_DATE parameter from the pd.conf file.

7   Complete the preceding steps until every client is rebased in your environment.

8   Evaluate the effect of rebasing on your backup environment performance.

If performance does not increase after you rebase, consider taking the following other actions:

■   Examine the tape configuration to see if changes can be made.

■   Change the NetBackup tape buffer tuning parameters.

■   Change the ReadBufferSize parameter in the contentrouter.cfg file.

About the current release content index

This appendix includes the following topics:

- About the NetBackup 7.1.0.4 master Etrack index list

About the NetBackup 7.1.0.4 master Etrack index list

The following topics show the Etrack numbers that are fixed and contained in each of the following NetBackup packages for this release.

NB_OPS_CTR_7.1.0.4.winnt.x86

2557047 2626442 2626556 2631253 2647264 2647266 2647269 2647273 2647274
2647279 2647280 2647406 2647429 2647432 2647440 2647462 2647463 2647471
2647477 2647480 2654238 2656221 2661356 2663794 2663799 2665424 2671949
2677645 2682885 2682931 2698377 2711923 2717681

NB_7.1.0.4.winnt.IA64

1822094 2149370 2398935 2535388 2600498 2600651 2612997 2617075 2640681
2643338 2644736 2647207 2647210 2647217 2647224 2647230 2647237 2647239
2647240 2647244 2647247 2647253 2647268 2647272 2647275 2647276 2647320
2647321 2647325 2647326 2647327 2647329 2647333 2647334 2647337 2647338
2647339 2647340 2647341 2647343 2647345 2647346 2647348 2647349 2647350
2647355 2647356 2647357 2647358 2647359 2647362 2647363 2647364 2647365
2647366 2647368 2647378 2647379 2647381 2647385 2647390 2647394 2647395
2647398 2647399 2647400 2647404 2647405 2647407 2647409 2647412 2647413
2647418 2647419 2647421 2647422 2647424 2647428 2647438 2647439 2647441
2647444 2647448 2647449 2647452 2647453 2647454 2647455 2647456 2647460

2647461 2647464 2647466 2647467 2647469 2647472 2647474 2647479 2647484
2647489 2648270 2651162 2651454 2655793 2659617 2659736 2659764 2665300
2670082 2670349 2671648 2675303 2693177 2693390 2693391 2693392 2693396
2701329 2701999

NB_OPS_CTR_7.1.0.4

2557047 2626442 2626556 2647264 2647266 2647269 2647274 2647279 2647280
2647406 2647429 2647432 2647440 2647462 2647463 2647471 2647477 2647480
2654238 2656221 2661356 2663794 2663799 2665424 2671949 2677645 2682885
2682931 2698377 2711923 2717681

NB_7.1.0.4

1822094 2149370 2398935 2535388 2600498 2600651 2603398 2612997 2617075
2627085 2640681 2643338 2643388 2644736 2647217 2647224 2647230 2647237
2647238 2647239 2647240 2647244 2647268 2647272 2647275 2647276 2647320
2647321 2647324 2647325 2647326 2647327 2647329 2647332 2647333 2647334
2647340 2647341 2647343 2647345 2647349 2647356 2647357 2647358 2647359
2647363 2647364 2647366 2647368 2647378 2647379 2647385 2647390 2647391
2647392 2647394 2647395 2647398 2647399 2647405 2647407 2647409 2647412
2647413 2647419 2647421 2647422 2647424 2647428 2647438 2647444 2647448
2647449 2647452 2647453 2647455 2647466 2647469 2647472 2647474 2647479
2647489 2648270 2651162 2651454 2659617 2669032 2670082 2670349 2671648
2675303 2678677 2700362 2701329

NB_7.1.0.4.winnt.x64

1822094 2149370 2398935 2535388 2600498 2600651 2612997 2617075 2640681
2643338 2644736 2647207 2647210 2647217 2647224 2647230 2647237 2647239
2647240 2647244 2647247 2647253 2647268 2647272 2647275 2647276 2647320
2647321 2647325 2647326 2647327 2647329 2647333 2647334 2647337 2647338
2647339 2647340 2647341 2647343 2647345 2647346 2647348 2647349 2647350
2647355 2647356 2647357 2647358 2647359 2647362 2647363 2647364 2647365
2647366 2647368 2647378 2647379 2647381 2647385 2647390 2647394 2647395
2647398 2647399 2647400 2647404 2647405 2647407 2647409 2647412 2647413
2647418 2647419 2647421 2647422 2647424 2647428 2647438 2647439 2647441
2647444 2647448 2647449 2647452 2647453 2647454 2647455 2647456 2647460
2647461 2647464 2647466 2647467 2647469 2647472 2647474 2647479 2647484
2647489 2648270 2651162 2651454 2655793 2659617 2659736 2659764 2665300
2670082 2670349 2671648 2675303 2693177 2693390 2693391 2693392 2693396
2701329 2701999

NBLU_7.1.0.4.WIN

1822094 2149370 2398935 2535388 2557047 2600498 2600651 2612545 2612997
2617075 2618958 2626442 2626556 2631253 2638983 2640681 2643338 2644736
2647207 2647210 2647217 2647224 2647230 2647237 2647239 2647240 2647244
2647247 2647253 2647260 2647264 2647266 2647268 2647269 2647272 2647273
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2647340 2647341 2647342 2647343 2647345 2647346 2647348 2647349 2647350
2647355 2647356 2647357 2647358 2647359 2647362 2647363 2647364 2647365
2647366 2647367 2647368 2647378 2647379 2647380 2647381 2647385 2647387
2647390 2647394 2647395 2647398 2647399 2647400 2647404 2647405 2647406
2647407 2647409 2647412 2647413 2647416 2647418 2647419 2647420 2647421
2647422 2647424 2647427 2647428 2647429 2647432 2647438 2647439 2647440
2647441 2647444 2647448 2647449 2647452 2647453 2647454 2647455 2647456
2647460 2647461 2647462 2647463 2647464 2647466 2647467 2647469 2647471
2647472 2647474 2647477 2647479 2647480 2647484 2647489 2648270 2651162
2651454 2654238 2655793 2656221 2659617 2659736 2659764 2661356 2663794
2663799 2665300 2665424 2669087 2670082 2670349 2671648 2671949 2675303
2677645 2682885 2682931 2693177 2693390 2693391 2693392 2693396 2698377
2701329 2701999 2711923 2717681

NB_JAV_7.1.0.4

2612545 2618958 2638983 2647260 2647322 2647336 2647342 2647367 2647380
2647387 2647416 2647420 2647427 2669087

NB_CLT_7.1.0.4

1822094 2149370 2376967 2398935 2535388 2600498 2600651 2603398 2612997
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2647230 2647237 2647238 2647239 2647240 2647244 2647268 2647272 2647275
2647276 2647320 2647321 2647324 2647325 2647326 2647327 2647329 2647332
2647333 2647334 2647337 2647340 2647341 2647343 2647344 2647345 2647346
2647349 2647350 2647356 2647357 2647358 2647359 2647363 2647364 2647366
2647368 2647369 2647378 2647379 2647385 2647390 2647391 2647392 2647394
2647395 2647398 2647399 2647405 2647407 2647409 2647412 2647413 2647414
2647419 2647421 2647422 2647424 2647428 2647434 2647438 2647439 2647444
2647448 2647449 2647452 2647453 2647455 2647466 2647469 2647472 2647474
2647479 2647489 2647501 2648270 2651162 2651454 2659617 2669032 2670082
2670349 2671648 2675303 2678677 2700362 2701329

NB_JAV_7.1.0.4.winnt.x64

2612545 2618958 2638983 2647260 2647322 2647336 2647342 2647367 2647380
2647387 2647416 2647420 2647427 2669087

NB_7.1.0.4.winnt.x86

1822094 2149370 2398935 2535388 2600498 2600651 2612997 2617075 2640681
2643338 2644736 2647207 2647210 2647217 2647224 2647230 2647237 2647239
2647240 2647244 2647247 2647253 2647268 2647272 2647275 2647276 2647320
2647321 2647325 2647326 2647327 2647329 2647333 2647334 2647337 2647338
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2647355 2647356 2647357 2647358 2647359 2647362 2647363 2647364 2647365
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2647418 2647419 2647421 2647422 2647424 2647428 2647438 2647439 2647441
2647444 2647448 2647449 2647452 2647453 2647454 2647455 2647456 2647460
2647461 2647464 2647466 2647467 2647469 2647472 2647474 2647479 2647484
2647489 2648270 2651162 2651454 2655793 2659617 2659736 2659764 2665300
2670082 2670349 2671648 2675303 2693177 2693390 2693391 2693392 2693396
2701329 2701999

NB_OPS_CTR_7.1.0.4.winnt.x64

2557047 2626442 2626556 2631253 2647264 2647266 2647269 2647273 2647274
2647279 2647280 2647406 2647429 2647432 2647440 2647462 2647463 2647471
2647477 2647480 2654238 2656221 2661356 2663794 2663799 2665424 2671949
2677645 2682885 2682931 2698377 2711923 2717681

NB_OPS_CTR_7.1.0.4.winnt.IA64

2557047 2626442 2626556 2631253 2647264 2647266 2647269 2647273 2647274
2647279 2647280 2647406 2647429 2647432 2647440 2647462 2647463 2647471
2647477 2647480 2654238 2656221 2661356 2663794 2663799 2665424 2671949
2677645 2682885 2682931 2698377 2711923 2717681

NBLU_7.1.0.4.UNIX

1822094 2149370 2376967 2398935 2535388 2557047 2600498 2600651 2603398
2612545 2612997 2617075 2618958 2622144 2626442 2626556 2627085 2638983
2640681 2643338 2643388 2644736 2647217 2647224 2647230 2647237 2647238
2647239 2647240 2647244 2647260 2647264 2647266 2647268 2647269 2647272
2647274 2647275 2647276 2647279 2647280 2647320 2647321 2647322 2647324

2647325 2647326 2647327 2647329 2647332 2647333 2647334 2647336 2647337
2647340 2647341 2647342 2647343 2647344 2647345 2647346 2647349 2647350
2647356 2647357 2647358 2647359 2647363 2647364 2647366 2647367 2647368
2647369 2647378 2647379 2647380 2647385 2647387 2647390 2647391 2647392
2647394 2647395 2647398 2647399 2647405 2647406 2647407 2647409 2647412
2647413 2647414 2647416 2647419 2647420 2647421 2647422 2647424 2647427
2647428 2647429 2647432 2647434 2647438 2647439 2647440 2647444 2647448
2647449 2647452 2647453 2647455 2647462 2647463 2647466 2647469 2647471
2647472 2647474 2647477 2647479 2647480 2647489 2647501 2648270 2651162
2651454 2654238 2656221 2659617 2661356 2663794 2663799 2665424 2669032
2669087 2670082 2670349 2671648 2671949 2675303 2677645 2678677 2682885
2682931 2698377 2700362 2701329 2711923 2717681

NB_JAV_7.1.0.4.winnt.x86

2612545 2618958 2638983 2647260 2647322 2647336 2647342 2647367 2647380
2647387 2647416 2647420 2647427 2669087

NB_JAV_7.1.0.4.winnt.IA64

2612545 2618958 2638983 2647260 2647322 2647336 2647342 2647367 2647380
2647387 2647416 2647420 2647427 2669087

About the current release content

This appendix includes the following topics:

- About release content conventions

- About NetBackup 7.1.0.4 release content

- NetBackup 7.1.0.4 Emergency Engineering Binary (EEB) listing

About release content conventions

The following list describes the conventions used in the subsections that follow this section. Each item listed in the "Current release content" subsection describes a feature, enhancement, or fixed issue contained in this release:

- Description
  Describes a particular problem that has been fixed in this release.

- ** Description **
  Describes a problem that can lead to a potential data loss. Please read the problem descriptions carefully.

- Workaround
  Any available workarounds to a problem are also listed. Workarounds can be used instead of applying the patch, however, Symantec recommends the "best practice" of being at the latest available patch level.

- Additional Notes
  Any additional information regarding a problem is included.

About NetBackup 7.1.0.4 release content

This topic contains a list of the known issues that were fixed and included in this release of NetBackup.

Etrack Incident: 2671949

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The Tomcat webserver is upgraded to 6.0.35 for the NetBackup 7.1.0.4 release.

Etrack Incident: 2647349

- Associated Primary Etrack: 2206237

- TITAN cases: 413-201-949

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  In NetBackup 6.5.6, the `bprd` process could not remove logs greater than 2 gigabytes in size.

Etrack Incident: 2671648

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  If a user tries to register a key that is expired or otherwise invalid, licensing will silently ignore it and not indicate an error. Windows installers correctly display the `invalid key` message, while UNIX installers do not.

Etrack Incident: 2647366

- Associated Primary Etrack: 2243247

- TITAN cases: 600-650-117

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  Restores of duplicate file lists can take twice as long as usual to prepare before a data move begins.

- Workaround:
  Restore a path only once, or use a FlashBackup restore instead of a single-file restore.

Etrack Incident: 2647365

- Associated Primary Etrack: 2245002

- TITAN cases: 413-370-253

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  VMware restores fail because the Japanese Language value for NULL is not interpreted correctly.

Etrack Incident: 2647224

- Associated Primary Etrack: 2516870

- TITAN cases: 415-050-521 415-515-326

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  A recovery on a Linux client fails to restore files greater than 17 gigabytes. The issue is highly likely on Linux clients where the filesystems have been created with a block size greater than 1024.

Etrack Incident: 2647424

- Associated Primary Etrack: 2422438

- TITAN cases: 414-630-902

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  After an upgrade from NetBackup 6.5 to 7.0.1, SAP backups ignore checkpoints. As a result, when SAP backups are restarted, they do not restart from the latest checkpoint.

Etrack Incident: 2647217

- Associated Primary Etrack: 2045647

- TITAN cases: 411-913-496

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
NB_CLT_7.1.0.4

■ Description:
This patch allows for configurable use of potential free space when it is
determined if a disk is above the High Water Mark. When the user performs
backups to a capacity-managed advanced disk storage unit, jobs can fail with
a status code 129. That can occur even though significant free space is available
on disk.

Etrack Incident: 2648270

■ Associated Primary Etrack: 2432452

■ TITAN cases: 414902036

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
NB_CLT_7.1.0.4

■ Description:
This patch allows the `bpjobd` process to react to changes to the `VERBOSE` value
in the `bp.conf` file. The fix no longer requires the `bpjobd` process to restart
after changes are made.

Etrack Incident: 2647480

■ Associated Primary Etrack: 2612954

■ TITAN cases: 415-741-751

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
NB_OPS_CTR_7.1.0.4.winnt.x86

■ Description:
Alerts are still generated for a master server that has been removed from a
view filter. That is because the alerts do not use the **isDeleted** data in the
view_Node table after the master server is removed.

■ Workaround:
Delete the entire record from the **view_Node**.

Etrack Incident: 2647471

■ Associated Primary Etrack: 2591407

■ TITAN cases: 415-419-370

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  In ViewBuilder, the **Search Objects** function is not able to find clients that are no longer backed up by NetBackup.

- Additional Notes:
  Once a client is added to a view, it stays as part of the view even if that client is removed from NetBackup. That enables OpsCenter to report the historical data. However, the ViewBuilder search functionality will only search the clients that are actively backed up. The fix ensures that the ViewBuilder search functionality searches all clients regardless of whether or not they are actively backed up.

Etrack Incident: 2631253

- Associated Primary Etrack: 2620475

- TITAN cases: 415-541-111

- Contained in: NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  With OpsCenter Agent versions 7.1.0.2 and 7.1.0.3, Java abruptly stops shortly after it is started when it collects from Backup Exec 10 servers. A status code 1 appears in the service log.

- Workaround:
  To work around this issue, you can revert back to the available EEBs for 7.1.0.1 and 7.1.0.2.

Etrack Incident: 2600651

- Associated Primary Etrack: 2414614

- TITAN cases: 414-231-799 415-839-020

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  A browse of Exchange granular mailbox backups on a remote storage server may fail. That is because the `bpdbm` process tries to use media servers that are not part of the granular backup and restore setup.

Etrack Incident: 2376967

- Contained in: NBLU_7.1.0.4.UNIX NB_CLT_7.1.0.4

- Description:
  This patch is needed to support Oracle 11 backups on zLinux. The `oracle_link` script does not create a link to the NetBackup `libobk` shared library for zLinux systems that run Oracle 11.

Etrack Incident: 2647395

- Associated Primary Etrack: 2356270

- TITAN cases: 600693806

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  In the **Command Line Interface**, the `DB2` agent hinders flexibility in restore performance. That occurs when the user wants to perform a restore from a non-primary copy or wants to specify a media server for restores.

Etrack Incident: 2647322

- Associated Primary Etrack: 2009184

- TITAN cases: 411-444-630

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4 NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64 NB_JAV_7.1.0.4.winnt.x86

- Description:
  The cluster virtual name cannot be selected for **source media server** when the advanced configuration option is used for duplications in a vault configuration.

Etrack Incident: 2647456

- Associated Primary Etrack: 2556774

- TITAN cases: 415-110-731

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  In the NetBackup SQL Agent interface, the restore selection presents databases that are hosted by Named Instances as hosted by the Default Instance. That occurs if the FQDN host name is specified for **SQLHOST** in an SQL batch file and the Named Instance database is then backed up.

- Workaround:

Specify the short name for **SQLHOST** in the SQL batch file.

Etrack Incident: 2647455

- Associated Primary Etrack: 2555979

- TITAN cases: 414-995-058 415-245-791

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Add drive access bit checking for drive unloads along with added drive SCSI
  unload retries for increased attempts to unload drive and avoid robots that
  have long timeouts on a drive unload with access=0.

Etrack Incident: 2647427

- Associated Primary Etrack: 2435618

- TITAN cases: 414-902-207

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  In NetBackup 7.0.1, when **Media Servers** is selected from **Devices** in the **Media
  and Device Management** interface, the display cannot appear and a
  `NullPointerException` occurs.

Etrack Incident: 2682931

- Associated Primary Etrack: 2675693

- TITAN cases: 416-216-345 416-321-793 416-455-563

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  Data collection fails sporadically on a 32-bit system that runs OpsCenter 7.0.1
  in a large customer environment. When the OpsCenter server starts, it loads
  many database objects into memory, some of which are not necessary. That
  causes OpsCenter to consume memory, and on a 32-bit system the server may
  run out of memory.

Etrack Incident: 2647441

- Associated Primary Etrack: 2516868

- TITAN cases: 415-158-206

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  When **copy to new policy** is performed on a catalog backup policy created by the Command Line Interface, the Windows Administration Console faults.

- Workaround:
  After **copy to new policy** is clicked and the new policy attributes page opens, select the **NBU-Catalog** under the Policy type. **NBU-Catalog** is selected by default, but to work around this problem you need to select it again.

Etrack Incident: 2647380

- Associated Primary Etrack: 2319293

- TITAN cases: 414-168-315

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4 NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64 NB_JAV_7.1.0.4.winnt.x86

- Description:
  The NetBackup-Java Administration Console reports the wrong schedule type for Catalog Incremental backups.

Etrack Incident: 2693396

- Associated Primary Etrack: 2682062

- TITAN cases: 416-204-340

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  A particular backup image made with 7.1.0.1 cannot be restored. The `bpvmutil` process cannot be started for `createVM`. During a restore, when the customer has many orphaned or leftover snapshots, the xml file used to create the virtual machine becomes too large. That causes buffer failures.

Etrack Incident: 2659736

- Associated Primary Etrack: 2661796

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:

A restore of a virtual machine that is managed by vCloud fails. That occurs if the restore is to a vCenter 5.0 that is not managed by the same vCloud.

Etrack Incident: 2647379

- Associated Primary Etrack: 2315785

- TITAN cases: 414-015-179

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `vmchange -res -multi_eject` command is misclassified as <16> in the `detail.log`, which causes it to appear in the NetBackup Problems Report.

Etrack Incident: 2647501 2647414

- Associated Primary Etrack: 2415795

- TITAN cases: 414-843-290

- Contained in: NBLU_7.1.0.4.UNIX NB_CLT_7.1.0.4

- Description:
  During off-host HP-XP array based snapshot backups, the job runs successfully, but the `bpfis -delete` process fails with a status code 156.

Etrack Incident: 2665424

- Associated Primary Etrack: 2665359

- TITAN cases: 415-436-127

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  When external attributes are imported with the XML importer `view_importexport.bat`, an import of XML data fails.

Etrack Incident: 2647489

- Associated Primary Etrack: 2636470

- TITAN cases: 415-744-892

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

Incremental Network Data Management Protocol backups on EMC Celerra fail with the following message in the `bptm` logs: `not a valid tar header`. The issue occurs when changes are made to the files to be backed up.

Etrack Incident: 2647342

- Associated Primary Etrack: 2191888

- TITAN cases: 412-972-880

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4 NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64 NB_JAV_7.1.0.4.winnt.x86

- Description:
  After an upgrade to NetBackup 7.0, the NetBackup-Java Administration Console enforces a 9-hour timeout for `bpstart_notification` scripts. The `bpstart_timeout` limit has been extended to 48 hours.

Etrack Incident: 2647432

- Associated Primary Etrack: 2439873

- TITAN cases: 414-892-749

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  OpsCenter generates false `No Cleaning Tape Available` alert messages for devices. The issue is seen when some of the media from tape libraries are vaulted.

Etrack Incident: 2647434

- Associated Primary Etrack: 2443035

- TITAN cases: 414-939-139

- Contained in: NBLU_7.1.0.4.UNIX NB_CLT_7.1.0.4

- Description:
  If a backup file is marginally sparse, the backup can take nearly double the time. That is because the `bpbkar` process has to make two passes through the file: first to find sparse blocks, and second to conduct the backup.

- Additional Notes:
  The new `/usr/openv/netbackup/BPBKAR_SPARSE_THRESHOLD` touch file on the NetBackup Client can be used to control how sparse files are backed up. The touch file contains two numbers: The first number represents percentage, and

the second is for max zeroes (in gigabytes) allowed in a backup file to skip sparse handling. If the touch file contains '5 1', the backup file is less than 5% sparse with less than 1 gigabyte in zeroes. Sparse handling will then be skipped. If the touch file contains '10 0', all files less than 10% sparse will be backed up like normal files. On a restore, such files will not show up as sparse, which means they will occupy that much extra space on a disk.

Etrack Incident: 2647369

- Associated Primary Etrack: 2271332

- TITAN cases: 412-444-570

- Contained in: NBLU_7.1.0.4.UNIX NB_CLT_7.1.0.4

- Description:
  A FreeBSD client does not recognize the Zeta File System. The `bpmount` process does not even return it. The issue occurs when `ALL_LOCAL_DRIVES` is used. Because the file system is skipped, there is a potential for data loss.

Etrack Incident: 2647274

- Associated Primary Etrack: 2567875

- TITAN cases: 415-306-074

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The report filter is reset to **None** after an export or import of a view in Java ViewBuilder. The report is no longer associated with the view after the view is imported.

Etrack Incident: 2647464

- Associated Primary Etrack: 2582041

- TITAN cases: 600-725-417

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  Virtual machines that are managed by the Site Recovery Manager in VMware do not back up properly.

Etrack Incident: 2398935

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `nbemmcmd -deletehost` command cannot delete new machine types. The
  administration log reports new machines as invalid when there is an attempt
  to delete them.

Etrack Incident: 2647407

- Associated Primary Etrack: 2386888

- TITAN cases: 413-671-826

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Network Data Management Protocol restores that use a tape drive do not
  display **Kilobytes read** and **KB/Sec** information in the job details. That is
  because the details are not passed to the `bpjobd` process, which causes them
  to be missed by the jobs database and the logs.

Etrack Incident: 2647350

- Associated Primary Etrack: 2208571

- TITAN cases: 413-226-552

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64
  NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  The Bare Metal Restore client configuration cannot be saved for an HP-UX
  server with a long network interface name. If the name is too long, the Bare
  Metal Restore disaster information collection fails with a status code 1 on the
  master server.

Etrack Incident: 2647260

- Associated Primary Etrack: 2424416

- TITAN cases: 414-352-855 414-801-405

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:

A multiple tape eject when at least one tape to be ejected is active causes the eject popup window to fail with a `NullPointerException`. The NetBackup-Java Administration Console also freezes.

Etrack Incident: 2647207

- Associated Primary Etrack: 2591877

- TITAN cases: 415-252-887

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  Incremental `vADP` backups fail with status codes 13 or 84 to the Media Server Deduplication Pool. That occurs when more than one vmdk has the same name in different cases (uppercase and lowercase) under the same datastore.

Etrack Incident: 2647460

- Associated Primary Etrack: 2519300

- TITAN cases: 414-897-430 415-759-376

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  If two backups are simultaneously run on the same client while the bandwidth throttle is enabled, the bandwidth is halved for both backups. The first backup then does not seem to limit bandwidth. Both backups complete successfully.

Etrack Incident: 2647343

- Associated Primary Etrack: 2193852

- TITAN cases: 412-608-678

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  Many TRV-level messages appear in the event log, which slows down data collection for the Veritas Backup Reporter.

Etrack Incident: 2647334

- Associated Primary Etrack: 2171977

- TITAN cases: 412-864-614

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  On a Solaris 10 master server with NetBackup 7.0.1, the `nbpemreq -anything`
  process returns the following error message: `cannot connect to nbpem`. The
  error is common in a large configuration when the `nbpemreq` command is run
  with switches like `-updatepolicies` that take a long time to complete.

Etrack Incident: 2647238

- Associated Primary Etrack: 2358535

- TITAN cases: 414-384-953 415-086-091

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  The `bmrsrtadm` process fails to create an AIX 5.3 TL 11 shared resource tree
  on an AIX 6.1 boot server. The following error message occurs: `[Error]`
  `V-125-170 Unable to set Create SRT environment`. The same error is seen
  when a shared resource tree is created for TL 9 and TL 10.

Etrack Incident: 2670082

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- **Description:
  The size of a backup written to a PureDisk or Media Server Deduplication Pool
  storage unit may not match the written size. The issue is specific to backups
  that span multiple fragments. That causes problems when individual files are
  accessed in the backup based on their offsets in the catalog.

- Additional Notes:
  The problem is specific to fragmentation caused when the maximum fragment
  size of the storage unit is honored. The default size for the Media Server
  Deduplication Pool storage unit is 512000 megabytes.

Etrack Incident: 2647320

- Associated Primary Etrack: 1947160

- TITAN cases: 410-643-097

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  If the catalog recovery wizard runs from either the command line with the `bprecover -wizard` process or the NetBackup-Java Administration Console, backups are restored twice. The issue only occurs when the wizard is run in a non-disaster situation.

Etrack Incident: 2618958

- Associated Primary Etrack: 2238426

- TITAN cases: 413-200-222 413-536-843 414-217-712 415-246-007 415-605-070

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4 NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64 NB_JAV_7.1.0.4.winnt.x86

- Description:
  In NetBackup 7.0.1, a client cannot be dragged and dropped or copied and pasted between policies in the NetBackup-Java Administration Console.

- Workaround:
  Please refer to the parent Etrack, ET 2238426 on the Symantec Support Web site.

Etrack Incident: 2647321

- Associated Primary Etrack: 2001448

- TITAN cases: 411-385-142

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  An import of a Bare Metal Restore configuration fails for a Linux client. That occurs when the `fdisk` output has SCSI disks that are not in alphabetical order.

Etrack Incident: 2647346

- Associated Primary Etrack: 2199523

- TITAN cases: 413-018-764

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  If Oracle backup policies are run at the same time, the backup jobs can use the same template file name. That causes the jobs to finish abnormally.

Etrack Incident: 2665300

- Associated Primary Etrack: 2659663

- TITAN cases: 416-008-227

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  After an install of NetBackup or OpsCenter 7.1.0.3, the number of CPUs that
  are licensed for the database is set to 1. That causes the Sybase application to
  be limited to one licensed CPU, when the value should be 128.

- Workaround:
  Run the `dblic.exe` command. For example, on an AMD64 system:
  ```
  <INSTALL_DIR>\Veritas\NetBackupDB\win64\dblic.exe -l processor -p
  WIN64 -u 128 dbsrv11.lic "NetBackup" "Symantec Corporation"
  ```

Etrack Incident: 2669087

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  The copyright year 2012 should be reflected for version 7.1.0.4 in the
  NetBackup-Java Administration Console.

Etrack Incident: 2647275

- Associated Primary Etrack: 2182184

- TITAN cases: 412-931-685 415-183-961

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `bpdbm -alive_local` command causes a clustered NetBackup master
  server to restart or fail if there is no response in 10 seconds.

Etrack Incident: 2701999

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  vStorage backups of VMware templates fail with a status code 156. That is
  because during a backup, the server field is not populated at the time of vSphere
  login.

Etrack Incident: 2647363

- Associated Primary Etrack: 2238894

- TITAN cases: 413-264-177

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  After an upgrade to NetBackup 6.5.6, the `bpcoverage -c client_name` syntax
  tries to resolve all client names listed in the master server. That causes it to
  take about an hour to finish, when it took one minute before the upgrade.

Etrack Incident: 2693177

- Associated Primary Etrack: 2652730

- TITAN cases: 416-008-084 416-031-136

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  Some customers have found that the snapshot process in 7.1.0.3 is slower than
  in prior versions. That is in part because a host name lookup has been added
  that allows display names to equal host names. The change makes it so that
  the added function is no longer the default. A new DWORD registry entry,
  displayNameEnableIP, has been added to enable IP lookup when the display
  name is used.

Etrack Incident: 2647344

- Associated Primary Etrack: 2198146

- TITAN cases: 412-573-032

- Contained in: NBLU_7.1.0.4.UNIX NB_CLT_7.1.0.4

- Description:
  In the case of Oracle Block Level Incremental Backups with a `VxFS_Checkpoint`,
  all cumulative incremental backups fail to remove previous incremental clone
  checkpoints. That results in a leftover `nodata` checkpoint on the file system
  after every cumulative incremental backup. After a long time, that causes a
  decrease in Veritas File System performance because of a maintenance overload
  of `nodata` clones.

Etrack Incident: 2647452

- Associated Primary Etrack: 2526675

- TITAN cases: 415-115-936

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

  Prepare to Restore fails for Solaris 10 UNIX File System and Veritas Volume Manager clients. That is because the import code creates incorrect mappings between the Veritas Volume Manager disk and the Solaris disk. The issue occurs when the same Veritas Volume Manager disk name is in two separate disk groups.

Etrack Incident: 2535388

- Associated Primary Etrack: 1655897

- TITAN cases: 240-951-813 412-511-699 412-712-018 415-844-912

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

  Large restores of Network Data Management Protocol backups sometimes fail with a status code 26, and the following appears in the `bptm` logs: `The size of this backup image has been modified`.

Etrack Incident: 2647329

- Associated Primary Etrack: 2163431

- TITAN cases: 412-878-722

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

  When the `bpdbjobs` process reports from a large NetBackup Jobs Database, a memory leak can occur, which causes the process to fail. This problem can affect Veritas Backup Reporter, which uses the `bpdbjobs` process to collect job information.

Etrack Incident: 2647428

- Associated Primary Etrack: 2437155

- TITAN cases: 415-028-042

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

  The `tldcd` process aborts after it fails to communicate with the media server
  11 times, which exceeds the `MAX_ACCEPT_ERRORS` connections value of 10. That
  is because NetBackup 7.0.1 and later are not coded to reset the `accept_count`
  value to 0 after each successful connection. The issue is more likely when the
  server is under a heavy load.

Etrack Incident: 2149370

- TITAN cases: 412-734-330 416-242-612 416-338-150

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

  If the `ALTPATH` or `symlink` target is unavailable, when the periodic `bpexpdate`
  `-deassignempty` command runs, tapes can become unassigned.

Etrack Incident: 2647280

- Associated Primary Etrack: 2581199

- TITAN cases: 415-421-995

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The job data collection process from a PureDisk fails when more than 300 jobs
  are run simultaneously.

Etrack Incident: 2647463

- Associated Primary Etrack: 2580514

- TITAN cases: 415-346-317

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The Job Directory has additional characters added to the path.

Etrack Incident: 2647394

- Associated Primary Etrack: 2353148

- TITAN cases: 414-395-788

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `bplabel` command can no longer erase assigned media.

Etrack Incident: 2647449 2617075

- Associated Primary Etrack: 2525096

- TITAN cases: 414-886-876

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  When the master server is down, the `nbrmms` process on media servers tries to
  connect to the Enterprise Media Manager every second. That floods Private
  Branch Exchange and prevents the startup of NetBackup daemons.

Etrack Incident: 2647472

- Associated Primary Etrack: 2599126

- TITAN cases: 600-726-754

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  During FullVM restores, the problems report and the `bprd` log return the
  following false alert: `get_win_path: Bad file path /\\.\VMFILE0`.

Etrack Incident: 2647398

- Associated Primary Etrack: 2360812

- TITAN cases: 414-384-957

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

This patch contains support for sun4us architecture. Bare Metal Restore information could not be collected for a sun4us client server because the architecture was not supported.

Etrack Incident: 2647422

■ Associated Primary Etrack: 2421015

■ TITAN cases: 414-571-931

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

■ Description:
The `bpbrm` command generates email notifications for snapshot jobs during multistreamed backups.

Etrack Incident: 2711923

■ Associated Primary Etrack: 2706134

■ TITAN cases: 416-521-832

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

■ Description:
Simple Network Management Protocol traps are not sent to the trap receiver when the local host is not resolved to the proper network card. The issue occurs after a server upgrade to Windows 2008 R2 x64.

■ Workaround:
Add the hostname to the `nm.conf` file that is resolved to the IP that can send the trap to the trap receiver.

Etrack Incident: 2647404

■ Associated Primary Etrack: 2380646

■ TITAN cases: 414-369-107

■ Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

■ Description:
On Windows 2008 R2, filesystems cannot be mapped on dynamic disks, yet a backup exits with a status code 0.

Etrack Incident: 2647269

■ Associated Primary Etrack: 2525287

- TITAN cases: 415-156-399

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  When **All Failed Backup**, **Client Risk Analysis**, and **Advanced Success Rate**
  reports are created, they will display incorrect data. Clients do not show up as
  Unassigned in Java ViewBuilder.

Etrack Incident: 2647368

- Associated Primary Etrack: 2261861

- TITAN cases: 413669203

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  A Bare Metal Restore configuration import fails with a status code 1 for clients
  with iStorage `StoragePathSavior` multipath software.

Etrack Incident: 2647416

- Associated Primary Etrack: 2410292

- TITAN cases: 413974123 414-774-611

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  After an upgrade to NetBackup 7.0.1, some files are grayed out and cannot be
  selected for a Network Data Management Protocol restore.

Etrack Incident: 2647438

- Associated Primary Etrack: 2489045

- TITAN cases: 414-884-110

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  With a large multiplexing value such as 32, SQL or other database agent
  backups may time out. That is because a delay occurs when a `bpbrm` parent

does not quickly handle exit statuses from `bpbrm` child processes. The delay exceeds 15 minutes, which causes the SQL agent to time out while it waits for the final exit status.

Etrack Incident: 2647400

- Associated Primary Etrack: 2376580

- TITAN cases: 414-096-850

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  The `dbbackex` process freezes when it backs up a **FILESTREAM** enabled database with a large number of files.

Etrack Incident: 2622144

- Contained in: NBLU_7.1.0.4.UNIX NB_CLT_7.1.0.4

- Description:
  On a Solaris client, a Veritas Volume Replicator snapshot backup may fail with a status code 156.

Etrack Incident: 2682885

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The Advanced Success Rate report fails with an exception and is not displayed in OpsCenter 7.1.0.4.

Etrack Incident: 2612997

- Associated Primary Etrack: 2612919

- TITAN cases: 415-744-920

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  In NetBackup 7.1, when a schedule is added with a large frequency that pushes the next backup date beyond 2038, the `nbpem` process core dumps. The thread stack message is identical each time: `void LAssert::assertFailed` and `bool Symantec::NetBackup::PEM::LastBackupData::getWindowTime`.

Etrack Incident: 2647418

- Associated Primary Etrack: 2411781

- TITAN cases: 414-882-131

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  In some cases, temporary files are created in the Windows Directory when
  VMware backups are taken, but are then not removed automatically.

- Workaround:
  Manually delete these temporary files.

Etrack Incident: 2647355

- Associated Primary Etrack: 2211650

- TITAN cases: 412-859-123

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  This patch addresses several issues related to the NetBackup 6.5.4 Enterprise
  Vault agent.

  - During a backup, Windows AMD64 users are not able to access email.

  - After a backup, Enterprise Vault services are not started.

  - Backups are slow because quiescence jobs and snapshot jobs wait for
    resources. Ideally only backup jobs should wait for resources.

Etrack Incident: 2647239

- Associated Primary Etrack: 2555584

- TITAN cases: 414-901-067

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  An SQL server parent job freezes when a NetBackup SQL server client process
  is terminated while a backup or restore is in progress. The issue can occur if
  the SQL `dbbackex` process is manually terminated through a reboot or removal
  from the network.

- Additional Notes:
  This fix includes both server (`bprd`) and client (`xbsa.dll`) binaries.

Etrack Incident: 2647230

- Associated Primary Etrack: 2598661

- TITAN cases: 415-646-199

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  When the `bptm` process tries to restore images that were created prior to
  NetBackup 7.0, a core dump occurs. The issue is specific to Network Data
  Management Protocol images that are backed up on a media server that runs
  7.0 or earlier. Such images cannot be restored on a media server that runs
  7.0.1 or later.

Etrack Incident: 2627085

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  If the Internet Protocol is down, NetBackup services do not shut down easily.
  This fix provides the user an option to kill the services with a `SIGKILL`
  command.

- Additional Notes:
  To enable Force Clean for a NetBackup Veritas Cluster Server, add
  `FORCE_CLEAN=1` to the `/usr/openv/netbackup/bin/cluster/NBU_RSP` file. If
  Force Clean is enabled, the Veritas Cluster Service will use `SIGKILL` to shut
  down services that do not easily shut down.

Etrack Incident: 2647429

- Associated Primary Etrack: 2438914

- TITAN cases: 415-041-074

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The **Job Retention Level** column is displayed as numbers.

Etrack Incident: 2651162

- Associated Primary Etrack: 2493625

- TITAN cases: 414-694-715 414-712-604 415-115-852 415-144-640

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  OpsCenter reports show incorrect storage unit types. That is because of
  inaccuracies in the jobs database. OpsCenter does not receive a media ID from
  NetBackup, which causes it to not generate **Media Required For Restore** alerts.

Etrack Incident: 2640681

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  A verification of non-Windows images fails for Linux virtual machine backups.

- Additional Notes:
  The verification failure in this case does not indicate a problem with the image.
  Restores from the image still succeed.

Etrack Incident: 2663799

- Associated Primary Etrack: 2586928

- TITAN cases: 414-934-896

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The export or import of objects causes only the **Attributes** tab to be available
  under the **Properties** menu.

Etrack Incident: 2647266

- Associated Primary Etrack: 2496619

- TITAN cases: 415-114-028

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  If the `Distinct` function is performed on the **Client Name** column of a custom
  report, some rows return `ROOT_NODE` instead of the client name count. The
  issue occurs on master servers, media servers, and clients.

Etrack Incident: 2647392

- Associated Primary Etrack: 2348159

- TITAN cases: 414-249-307

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  The `vltadm` command does not display the last retention level.

Etrack Incident: 2678677

- TITAN cases: 415-897-565 416-187-921

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  The feature that performs the native packaging of client code causes user backups to fail. Explicit `chmod` and `chgrp` commands have been added to scripts and the pack installer.

Etrack Incident: 2647479

- Associated Primary Etrack: 2614029

- TITAN cases: 415-598-621

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  This patch addresses a memory leak in the `nbazd` command. The `nbazd` command is shown to gradually increase the memory is uses.

Etrack Incident: 2647237

- Associated Primary Etrack: 2360397

- TITAN cases: 413-524-759

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  With a frequency-based schedule, if a failed job is restarted from the Activity Monitor, the next scheduled job cannot run. The Policy Execution Manager either asserts when it restarts a previous job or runs the wrong schedule. That causes the user to see back-to-back full backups if the restart fails with a status code 196 (Out Of Window).

- Additional Notes:

The Policy Execution Manager was changed to not reuse the current scheduler and create a new one. The new scheduler will fetch the data from the previous backup.

- Workaround:
  Do not restart the failed job from the Activity Monitor. Instead, manually run a full backup directly from the policy.

Etrack Incident: 2647399

- Associated Primary Etrack: 2361594

- TITAN cases: 413-173-514

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  A calendar monthly full backup skips clients when the calendar run day is not defined in the policy.

- Additional Notes:
  If a retry after the run day is set, a date is specified but the window is not open on that day. The job should schedule the next time the window opens.

- Workaround:

Etrack Incident: 2647359

- Associated Primary Etrack: 2233476

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  When lots of jobs (100 per second) run on one system, many updates are created for OpsCenter. When OpsCenter calls to the `nbsl` process to retrieve job details, master server performance decreases. That is because of the configuration in the `var/global/nbsl.xml` file, in which the polling interval for jobs is 20 seconds. To fix the problem, the value has been changed to 300 seconds. However, because of the change, job collection in OpsCenter now lags.

Etrack Incident: 2626442

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:

A change was made to address an issue that casued the EMC networker jobs data collection to fail.

Etrack Incident: 2647477

- Associated Primary Etrack: 2611599

- TITAN cases: 415-740-893

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The **All Failed Backups** report does not display for the **Duplication Job** type.

Etrack Incident: 2647340

- Associated Primary Etrack: 2185107

- TITAN cases: 412-950-116

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  If a Windows client has a corrupted or empty
  `<install_path>/netbackup/bin/version.txt` file, a backup, restore, or
  duplication job can freeze indefinitely and cannot be canceled.

Etrack Incident: 2670349

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  This patch contains SAN client backup and restore fixes for NetBackup 7.1.0.4.
  Fibre Transport jobs fail with a status code 40 after a data transfer of around
  500 gigabytes. The issue is caused by a mismatch of versions between the Fibre
  Transport media server and the SAN client, such as the following:

  - A 7.1.0.4 version of the Fibre Transport media server is used with a
    pre-7.1.0.4 SAN client and the backup data size is over 500 gigabytes.

  - A 7.1.0.4 version of the Fibre Transport media server is used with a 7.5 SAN
    client with no `FTCLIENT_VALIDATE_VIA_CHECK_CONDITION` touch file.

Etrack Incident: 2647419

- Associated Primary Etrack: 2413792

- TITAN cases: 414213121

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  On an AIX 6.1 server with NetBackup 7.0.1, the host properties screen displays
  the wrong master server. Any edits through the NetBackup-Java Administration
  Console remove the top line or entry of the **SERVER =** list in the
  `bp.conf/registry` file.

Etrack Incident: 2701329

- Associated Primary Etrack: 2683058

- TITAN cases: 416-300-575

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `nbcatsync` process does not recognize compressed catalog file lists. The
  issue occurs during disaster recovery, when some catalog entries have been
  compressed.

Etrack Incident: 2647406

- Associated Primary Etrack: 2382429

- TITAN cases: 414-694-641 415-525-567 416-079-323

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  Virtual clients that reference more than one master server are displayed in
  the ViewBuilder **Unassigned** view.

- Additional Notes:
  When one ESX or Hyper-V server is seen by multiple NetBackup servers, then
  all its virtual machines are listed in OpsCenter. They are listed as clients to all
  NetBackup servers from which the virtual machines can be seen. Some
  NetBackup servers may not even back up these virtual machines. Because of
  that, the same client name appears in the unassigned clients list of ViewBuilder
  multiple times. It appears once per NetBackup server that can browse the
  virtual machine, which is very confusing to the end user.

Etrack Incident: 2643388

- Associated Primary Etrack: 2206608

- TITAN cases: 413-067-352 416-503-525

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  On SLES 11 sp1 platforms, Lotus backups fail with a status code 103 because
  of a system call failure. The problem is the interoperability between the
  NetBackup build and the SLES 11 sp1 environment.

Etrack Incident: 2647367

- Associated Primary Etrack: 2252057

- TITAN cases: 413-544-263

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  This fix is applied from NetBackup 6.5.6. Shadow copy components do not
  restore correctly when a job is initiated from the NetBackup-Java
  Administration Console on a Windows platform.

- Additional Notes:
  None

- Workaround:
  None

Etrack Incident: 1822094

- TITAN cases: 320-213-945

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Duplication jobs that run for a long time can time out and fail with a status
  code 190. The issue only occurs after a system is reimaged.

Etrack Incident: 2647413

- Associated Primary Etrack: 2403211

- TITAN cases: 414-414-470

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `vmupdate` command does not recognize multiple residence changes. That
  causes robot inventory to fail with a status code 34 and the following error:
  "media ID is not unique in the database".

Etrack Incident: 2659617

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  PureDisk or Media Server Deduplication Pool storage servers cannot be
  removed after the input of an incorrect server name. Whether through a
  command line or the NetBackup-Java Administration Console, the error occurs
  and results in the following message: `cannot connect on socket error`.

Etrack Incident: 2675303

- Associated Primary Etrack: 2674444

- TITAN cases: 416-154-460

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Vault jobs fail with a status code 26. Missing image database fields cause the
  `vltrun` process to core dump. When `True Image Restore` fragments from
  backups are duplicated, fragments split in two on a media boundary or a
  check-point or restart occurrence.

Etrack Incident: 2647448

- Associated Primary Etrack: 2525589

- TITAN cases: 415-139-876

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `mknod` and `ln` processes utilize an incorrect format. That causes a Solaris
  client to become unable to boot.

Etrack Incident: 2647390

- Associated Primary Etrack: 2342091

- TITAN cases: 414-258-122

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  In NetBackup 6.5.4, a Boot loader installation fails during the restore of a Linux
  client with CCISS disks.

Etrack Incident: 2647273

- Associated Primary Etrack: 2563093

- TITAN cases: 415-213-864

- Contained in: NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4.winnt.IA64
  NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  In the OpsCenter Java ViewBuilder Recycle Bin, the **Restore** and **Purge**
  functions do not work. Also, the original view cannot be determined for objects
  in the Recycle Bin.

Etrack Incident: 2693390 2693391 2693392

- Associated Primary Etrack: 2635044

- TITAN cases: 415-861-003

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  This submission tries to fix orphaned snapshot issues for virtual machines:

  - It attempts snapshot consolidation.

  - It provides a registry entry so that the `bpfis` process will wait before
    VMware snapshot removal as per the registry setting. That is helpful in
    cases where disk release takes considerable time.

  - It provides a wait facility in the `bpfis -delete` process when it gets called,
    although `bpbkar` is still in progress. The wait can be controlled by registry
    entry and will help to control orphaned snapshots.

Etrack Incident: 2647461

- Associated Primary Etrack: 2567640

- TITAN cases: 415-163-291

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  This is a request for enhancements of VMwaretools to use the `guestnetinfo` command to obtain the IP address information from virtual machines.

Etrack Incident: 2647348

- Associated Primary Etrack: 2202478

- TITAN cases: 600-612-950

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  On a Windows 2008 master server with NetBackup 6.5.4, backups are slow when there is a partition with many junction points. Because of the issue, production backups cannot complete within their backup window.

Etrack Incident: 2661356

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  In the NetBackup 7.1.0.4 interface, the copyright information is not updated to 2012.

Etrack Incident: 2612545

- Associated Primary Etrack: 2554405

- TITAN cases: 415-134-101

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4 NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64 NB_JAV_7.1.0.4.winnt.x86

- Description:
  The Windows Java console attempts to connect to all interfaces on the master server, even though only one interface is configured. That occurs when the configured interface is unavailable.

Etrack Incident: 2647484

- Associated Primary Etrack: 2528022

- TITAN cases: 415-146-335

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  If Universal Naming Convention backups are run while NTIO is disabled, backups fail with a status code 13 and the following error: `Sidkey::Sidkey: FTL Internal Error`. However, the `bpbkar` process does not fail.

Etrack Incident: 2677645

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  After an upgrade to 7.1.0.4, variance reports return an error. The issue occurs when the user edits or creates a new report that is based on an existing template. The issue renders the user unable to specify filter criteria.

Etrack Incident: 2647453

- Associated Primary Etrack: 2338347

- TITAN cases: 413-587-293

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  Tape Library DLT robotics cannot handle more than 64 concurrent mount requests.

Etrack Incident: 2698377

- Associated Primary Etrack: 2685408

- TITAN cases: 416-286-660 416-367-623

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  A `server.log` file shows the following error: `Handler for event 'Drive_Data_Load' caused SQLSTATE '09W03`.

Etrack Incident: 2647420

- Associated Primary Etrack: 2416332

- TITAN cases: 414-866-415

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  Preview media in the NetBackup-Java Administration Console for files in
  cumulative incremental backups returns media for all incremental and full
  backups.

Etrack Incident: 2647421

- Associated Primary Etrack: 2421478

- TITAN cases: 414-909-692

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  After an upgrade to NetBackup 7.0.1, clients cannot be removed from the client
  attributes list under the host properties of the master server.

Etrack Incident: 2647467

- Associated Primary Etrack: 2496439

- TITAN cases: 414-622-176 416-317-820

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  Mapped Full VMware backups abort when they are written to Media Server
  Deduplication Pool or PureDisk Deduplication Option storage.

Etrack Incident: 2647440

- Associated Primary Etrack: 2514506

- TITAN cases: 415-154-68

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  A node of type `GENERIC` cannot be created in a resource tree of type
  `MASTER_SERVER`. That occurs when a view with a `GENERIC` node is imported.

Etrack Incident: 2647387

- Associated Primary Etrack: 2332220

- TITAN cases: 414-014-637

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  On a clustered setup, the NetBackup-Java Administration Console gets a Java
  exception when it tries to access the Drive Naming Rules configuration. The
  user then cannot configure the Drive Naming Rules.

Etrack Incident: 2647439

- Associated Primary Etrack: 2514286

- TITAN cases: 415-068-181

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64
  NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  The creation of a CD-based shared resource tree through the use of an imported
  shared resource tree fails on AIX platforms. The issue is specific to when the
  shared resource tree location is changed before it is imported.

Etrack Incident: 2647253

- Associated Primary Etrack: 2419968

- TITAN cases: 414-630-620

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  The `bprd` process fails to complete virtual machine restores if the virtual
  machine display name has a space.

Etrack Incident: 2654238

- Associated Primary Etrack: 2610604

- TITAN cases: 415-513-045 416-190-917

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The alert policy will generate an alert if only one path to the drive goes down.
  That occurs even though the alert policy is set to generate an alert only if all
  paths to the drive are down.

Etrack Incident: 2647378

- Associated Primary Etrack: 2284957

- TITAN cases: 412-935-793

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Large restores cause the `bpcd` process to use 100 percent of the CPU on the
  master server. That is because the process enters an infinite loop after
  `bpbrm.child` mistakenly assumes that there is a socket failure.

Etrack Incident: 2669032

- Associated Primary Etrack: 2668692

- TITAN cases: 415-943-764 415267383

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  Shared Resource Tree creation fails for RHEL 5 Update 6 and RHEL 5 Update
  7. That means that Bare Metal Restores will not be possible with Updates 6
  and 7 as media for Shared Resource Tree creation.

Etrack Incident: 2643338

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The OpenStorage Proxy server and plugin has been modified to multi-process
  mode for client side deduplication.

Etrack Incident: 2647244

- Associated Primary Etrack: 2387662

- TITAN cases: 600-684-460

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  This patch features performance improvements to the Windows Administration
  Console.

Etrack Incident: 2651454

- Associated Primary Etrack: 2584049

- TITAN cases: 415-463-095

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  After an upgrade to NetBackup 7.1, SQL backups that are backed up with
  Volume Shadow Copy Service snapshots with a **GROUPSIZE** of 30 are
  inaccessible.

Etrack Incident: 2647462

- Associated Primary Etrack: 2575400

- TITAN cases: 415-271-159

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The Skipped File report is empty even though there are many jobs with an exit
  status 1.

Etrack Incident: 2647247

- Associated Primary Etrack: 2418039

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  In Enterprise Vault, when a missing item is retrieved, NetBackup returns a
  general error instead of a `File Not Found` or `Path Not Found` error. The issues
  occurs when Enterprise Vault tries to rebuild an index and cannot distinguish
  between a `File Missing` error and a `Timeout` error. Enterprise Vault then
  cannot rebuild an index with missing items, and it freezes.

Etrack Incident: 2647466

- Associated Primary Etrack: 2585758

- TITAN cases: 415-231-118

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:

An imported second copy of a VMware image cannot be shown in the Backup, Archive, and Restore interface.

Etrack Incident: 2647345

- Associated Primary Etrack: 2199522

- TITAN cases: 412-659-407

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  The Oracle selection cannot be expanded out to view client databases on the Oracle template wizard with the NetBackup-Java Administration Console. The issue is caused by lack of support for the NetBackup-Java Administration Console for database agents that run Linux on the PowerPC architecture.

Etrack Incident: 2663794

- Associated Primary Etrack: 2513420

- TITAN cases: 415-099-916 415-781-322

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The **File Count Variance** report does not accurately calculate the average number of files backed up when the backups are multistreamed. That is because OpsCenter treats each stream independently and excludes the last stream from the average calculation.

Etrack Incident: 2647336

- Associated Primary Etrack: 2178196

- TITAN cases: 412-880-462

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4 NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64 NB_JAV_7.1.0.4.winnt.x86

- Description:
  In the NetBackup-Java Administration Console, the user cannot expand any backup selections for **Individual Public Folders** to perform an Exchange restore. They can select a complete restore, but they cannot expand any Exchange backups.

Etrack Incident: 2659764

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  A backup of a virtual machine fails if the client name exceeds 64 characters. The `bpbkar32` process freezes for 5 minutes and then reports an allocation error. The issue is very common in vCloud 1.5 environments if the display name is used as the client reference.

Etrack Incident: 2557047

- Associated Primary Etrack: 2489382

- TITAN cases: 414-168-993

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  On a Solaris 10 platform with NetBackup 6.5.4, the drive utilization reports show invalid values. When long jobs with a large number of fragments are run, less drive utilization is shown.

Etrack Incident: 2647326

- Associated Primary Etrack: 2150351

- TITAN cases: 412-776-949

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  In some circumstances, the `nbsvrgrp` command falsely reports

  ```
  an extension package is needed, but was not installed
  ```

  .

Etrack Incident: 2603398

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  Because of a change to the Ubuntu 11 OS, some new Linux service packs are released with a 3.x kernel level. The client configuration tests in NetBackup run up to a kernel level of 2.6. OS-level support has been added to address the issue. The fix is necessary for users to install the NetBackup client and upgrade to new service packs.

■ Workaround:
Refer to Technote TECH176428 on the Symantec Support Web site.

Etrack Incident: 2656221

■ Associated Primary Etrack: 2633014

■ TITAN cases: 415-757-467

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
NB_OPS_CTR_7.1.0.4.winnt.x86

■ Description:
Master server entries from the **domain_masterserver** table are assigned to
incorrect Global Unique IDs, which results in duplicate master server entries.
That occurs when the OpsCenter agent is configured to collect data from
NetBackup.

Etrack Incident: 2647339

■ Associated Primary Etrack: 2182846

■ TITAN cases: 412-878-839 416-343-574

■ Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
NB_7.1.0.4.winnt.x86

■ Description:
Devices that have been unchecked in the **Device Configuration Wizard** are
still added and show up grayed out. Unchecked devices should not appear in
the NetBackup configuration.

■ Workaround:
Remove devices manually from the NetBackup configuration every time a new
device is added.

Etrack Incident: 2647332

■ Associated Primary Etrack: 2168661

■ TITAN cases: 412-851-224

■ Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

■ Description:
On a Solaris 10 platform with NetBackup 7.0.1, when the `bpexpdate`
`-deassignempty` command is run with NetBackup Access Control enabled, an
authentication error occurs. The error may interfere with the ability to
manipulate the expiration date and time of backups.

Etrack Incident: 2647381

- Associated Primary Etrack: 2325127

- TITAN cases: 412-761-855

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  In some cases, an off host backup or a media server copy backup fails with the
  following error: `V-76-58645-381: Could not lock all volumes. Dynamic
  disk group was not deported.` To correct this, the deport command has been
  changed to include the `-f` flag.

Etrack Incident: 2647412

- Associated Primary Etrack: 2326556

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  This patch includes `nbdeploytutil` enhancements for NetBackup 7.1.0.4.
  Included are fixes to the Capacity Licensing model and the addition of the
  Traditional Licensing model.

Etrack Incident: 2647391

- Associated Primary Etrack: 2347154

- TITAN cases: 413-623-993

- Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

- Description:
  In NetBackup 6.5.6, the `nbkms` process fails when there is only one active `kms`
  key and another is created with the `-activate` option.

Etrack Incident: 2647474

- Associated Primary Etrack: 2604915

- TITAN cases: 415-415-378

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  An offhost Microsoft SQL server backup on the snapshot client fails because
  the alternate client has the same drive letter as the source volume. The issue
  is evident on any alternate client method, such as a database agent or a

standard policy type. The issue is only for Windows platforms because of a WIN32 API limitation.

■ Workaround:
Do not use the drive letter from the alternate client that matches with the source volume.

Etrack Incident: 2647325

■ Associated Primary Etrack: 2131738

■ TITAN cases: 412-517-118

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

■ Description:
Restores of Flashbackup or VMware data can result in a status code 5 with the following error in the bprd log: bprd.sfr: flush_to_bptm: put_data returned -4.

Etrack Incident: 2647324

■ Associated Primary Etrack: 2072939

■ TITAN cases: 412-110-877

■ Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

■ Description:
A Lotus Notes restore fails with a status code 5 and the following appears in the tar log: "Failed: 0x102:Cannot write or create file (file or disk is read-only)".

Etrack Incident: 2647358

■ Associated Primary Etrack: 2229875

■ TITAN cases: 413-321-099

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

■ Description:
A multiplexed duplication (**Preserve Multiplexing** option) fails because of position issues on the media. The original backup was created with an Inline Tape Copy and was multiplexed. The problem occurs when a backup completes, a new media is requested because of end of media, and a new backup joins the multiplexing group.

■ Workaround:

The duplication is successful if the **Preserve Multiplexing** option is not specified.

Etrack Incident: 2647240

- Associated Primary Etrack: 2376944

- TITAN cases: 414-577-677 414-611-870

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Disk group and pool capacities are reported incorrectly. The `nbdevconfig` process reports a negative number for the raw size of the disk pool. That can cause jobs to fail with insufficient disk space.

Etrack Incident: 2647454

- Associated Primary Etrack: 2555713

- TITAN cases: 415-215-795

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  During an Exchange 2010 backup, the `bpfis` process faults and snapshot operation fails with a status code 130. The problem occurs when the snapshot operation is done for a large number of databases in one `bpfis` job. That results in a stack buffer overflow, which causes the fault.

Etrack Incident: 2647210

- Associated Primary Etrack: 2592749

- TITAN cases: 415-392-114

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

- Description:
  Backup timestamps differ between a Microsoft SQL server and the NetBackup catalog. That causes an invalid and confusing interface display as well as functional sequence issues. When transaction logs from a database are backed up during a differential backup, the transaction log backup is aborted.

Etrack Incident: 2700362

- Associated Primary Etrack: 2565389

- TITAN cases: 415-291-146

■ Contained in: NBLU_7.1.0.4.UNIX NB_7.1.0.4 NB_CLT_7.1.0.4

■ Description:
The `nbproxy` process frequently core dumps on `strlen` when `print_guest_tree` is called for inaccessible virtual machine guests. That is caused by a virtual machine that VMware recognizes as unknown because a `.vmx` file is inaccessible to one or more virtual machines.

Etrack Incident: 2647357

■ Associated Primary Etrack: 2212266

■ TITAN cases: 413-205-675

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

■ Description:
When all previous traditional or synthetic full backups are expired, the synthetic full backup job does not get scheduled. A synthetic backup job fails if there has not been at least one previous full image. If a synthetic backup does fail, a job should be scheduled and a status code 671 should occur as a result.

Etrack Incident: 2717681

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

■ Description:
The Sybase database service core dumps on Solaris and Linux platforms with the EBF version 11.0.1+2645.

■ Workaround:
Upgrade to the new Sybase EBF to get issues reported in the earlier EBF. See the following Technote on the Symantec Support Web site:
www.symantec.com/docs/TECH184670

Etrack Incident: 2644736

■ Associated Primary Etrack: 2534673

■ TITAN cases: 415-061-893

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

■ Description:

A large restore from duplicate Network Data Management Protocol images fails with the following error message in the `bptm` logs: `The size of this backup image has been modified`. The error occurs when NetBackup successfully writes a block of data to a tape and `End of Media` occurs in the same write operation.

Etrack Incident: 2600498

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  VMware Intelligent Policies ignore virtual machines that have either (or) in the display name. That is because vCloud 1.5 uses parentheses in the display name. The issue occurs when the display name is configured as the client reference.

- Additional Notes:
  A Universally Unique ID cannot be used in a vCloud environment because vCloud generates duplicate Universally Unique IDs by default.

- Workaround:
  Use a different source as the client reference, such as **hostname**.

Etrack Incident: 2647385

- Associated Primary Etrack: 2331632

- TITAN cases: 600-690-413

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  The `nbstserv` process core dumps when it tries to access the same license file as another process.

Etrack Incident: 2647268

- Associated Primary Etrack: 2510690

- TITAN cases: 414-949-648

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:

Files are not excluded from Network Data Management Protocol backups if a `SET EXCLUDE = list` entry in the policy has spaces in it.

Etrack Incident: 2647469

- Associated Primary Etrack: 2590582

- TITAN cases: 415-528-840

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `mmcrawl` command aborts when it is executed.

Etrack Incident: 2647272

- Associated Primary Etrack: 2614377

- TITAN cases: 415-459-109

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  Restores of a large virtual machine fail with a status code 24 because negative data blocks are reported in the `bprd` and `bptm` processes. The issue occurs when there is a `vmdk` file one extent size greater than 1 terabyte. Most files do have multiple extents, and in this case one extent is larger than 1 terabyte.

Etrack Incident: 2647364

- Associated Primary Etrack: 2245621

- TITAN cases: 413-439-842

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  On a Solaris master server with NetBackup 6.5.6, the `bpdm` process core dumps when replications to DataDomain storage servers fail.

Etrack Incident: 2647362

- Associated Primary Etrack: 2236093

- TITAN cases: 413-412-243

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  A restore of an Active Directory Application Mode or a Lightweight Directory Services database in a replicated environment does not reset the **InvocationID**. That causes replication to fail after a restore.

Etrack Incident: 2647338

- Associated Primary Etrack: 2185330

- TITAN cases: 412-918-082

- Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86

- Description:
  This patch provides support for IBM SVC series arrays. It supports Instant Recovery on a copy-back restore from Volume Shadow Copy Service snapshots.

Etrack Incident: 2626556

- Associated Primary Etrack: 2493625

- TITAN cases: 414-694-715 414-712-604 415-115-852 415-144-640 415-519-412

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4 NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64 NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The **Media Required for Restore** alert is not generated.

Etrack Incident: 2647409

- Associated Primary Etrack: 2389916

- TITAN cases: 414-357-681 415-245-459

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4 NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  NetBackup Data Mover commands can core dump because of improperly formatted messages.

Etrack Incident: 2647333

- Associated Primary Etrack: 2169654

- TITAN cases: 412-894-111

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

■ Description:
  Multiplexed backups can fail with a status code 16 if a tape drive with a
  hardware issue encounters a positioning error.

Etrack Incident: 2647341

■ Associated Primary Etrack: 2189759

■ TITAN cases: 412-968-089

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

■ Description:
  A missing line break has been added between the **CLUSTER_NAME** and **Patch
  Level** fields in the output of the `bpgetconfig -A -t -L` command. That
  improves the readability of the `bpgetconfig` output.

Etrack Incident: 2655793

■ Associated Primary Etrack: 2651745

■ TITAN cases: 415-990-230

■ Contained in: NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64
  NB_7.1.0.4.winnt.x86

■ Description:
  VMware backups slow down after the application of NetBackup 7.1.0.3. vStorage
  backups of VMware templates fail with a status code 156, and a Veritas Mapping
  Service log is not generated. The issue occurs if NetBackup 7.1.0.3 is installed
  with a VCenter version earlier than 5.0.

Etrack Incident: 2647356

■ Associated Primary Etrack: 2211846

■ TITAN cases: 600-610-740

■ Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

■ Description:
  The history file for Exchange 2010 backups contains huge numbers (more than
  10 digits) for the last backup time. That causes the `bpclient` process to report
  0 for the last backup because it cannot handle such large values.

Etrack Incident: 2647405

- Associated Primary Etrack: 2381753

- TITAN cases: 414-368-699

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `BPCD_PEERNAME_RQST` command fails to return the peer name, and the
  `bptestbpcd -verbose` command core dumps when it receives the peer name.

Etrack Incident: 2647337

- Associated Primary Etrack: 2182293

- TITAN cases: 412-447-602 414-416-356 414-644-834

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4.winnt.IA64
  NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86 NB_CLT_7.1.0.4

- Description:
  Synthetic backups will fail with a status code 671. That occurs if a file that
  was backed up in a cumulative backup was not also backed up in the last full
  backup.

Etrack Incident: 2638983

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_JAV_7.1.0.4
  NB_JAV_7.1.0.4.winnt.IA64 NB_JAV_7.1.0.4.winnt.x64
  NB_JAV_7.1.0.4.winnt.x86

- Description:
  In the **Help** menu, when the user tries to export license keys, a popup window
  appears, titled: **Export the configuration to a text file**. The window has no text
  and cannot be closed.

Etrack Incident: 2647279

- Associated Primary Etrack: 2568347

- TITAN cases: 415-278-089 416-079-134

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  Alerts are not generated when they are configured in the context of a view.

Etrack Incident: 2647444

- Associated Primary Etrack: 2517423

- TITAN cases: 414-847-997

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  2010 Database Availability Group Exchange backups fail with a status code
  59 when a reverse lookup is attempted on an APIPA address. The issue results
  from incorrect reverse-lookup values from the Domain Name Service and when
  NetBackup does not ignore the APIPA addresses.

Etrack Incident: 2647276

- Associated Primary Etrack: 2233980

- TITAN cases: 413513856

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  The `bpdbm` process consumes a lot of CPU and memory space, and locks the
  system. That occurs when the catalog consistency check is run to check
  addresses. The catalog consistency check can now be applied to single clients
  and specific date ranges.

Etrack Incident: 2647264

- Associated Primary Etrack: 2493393

- TITAN cases: 414-737-607

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_OPS_CTR_7.1.0.4
  NB_OPS_CTR_7.1.0.4.winnt.IA64 NB_OPS_CTR_7.1.0.4.winnt.x64
  NB_OPS_CTR_7.1.0.4.winnt.x86

- Description:
  The `Order By` clause does not work in custom SQL reports when it is run from
  within the OpsCenter console.

Etrack Incident: 2647327

- Associated Primary Etrack: 2162687

- TITAN cases: 412740717

- Contained in: NBLU_7.1.0.4.UNIX NBLU_7.1.0.4.WIN NB_7.1.0.4
  NB_7.1.0.4.winnt.IA64 NB_7.1.0.4.winnt.x64 NB_7.1.0.4.winnt.x86
  NB_CLT_7.1.0.4

- Description:
  On a Solaris platform, the `nbjm` memory footprint runs under a high load and
  then fails. The problem is caused when a file list is too large.

NetBackup 7.1.0.4 Emergency Engineering Binary (EEB) listing

This following table contains the known issues that were identified, fixed, and available to our customers in the form of an Emergency Engineering Binary (EEB). NetBackup 7.1.0.4 contains each of these EEBs. It is possible that additional EEBs were released since this document was posted. If you do not see an EEB that you expected to see in this document, contact your Symantec NetBackup Support representative. In addition, if you require additional information about an issue in this table, contact your Symantec NetBackup Support representative.

Table C-1   NetBackup 7.1.0.4 EEB Listing

Etrack Number	EEB Description
2635987	The bpbkar32 process can cause application faults in the ntdll.dll module upon startup.
2659705	The bpbkar32 process can cause application faults in the ntdll.dll module upon startup.
2397803	The use of Microsoft Forefront causes a failure in the bpbkar process upon startup.
2360787	Bare Metal Restore cannot capture the configuration of Sun4us architecture.
2015978	Bare Metal Restore is unable to capture the configuration of sun4us architecture.
2687618	A Solaris 10 client with sun4us architecture fails to register to Bare Metal Restore.
2380287	When the server is booted from a Bare Metal Restore CD media on sun4us (Solaris 10) machines, the boot fails.
2163401	The NetBackup bpdbjobs command fails because of memory related issues when called through Veritas Backup Reporter.
2638475	In NetBackup, the bpbdjobs command core dumps when it is run through the Veritas Backup Reporter for data collection from the NetBackup master server.
2595294	Imports fail because the SCSI disk names are out of order in the fdisk output.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2001213	A Bare Metal Restore fails to import the configuration of a Linux client. That occurs when the client's fdisk command output is not in the alphabetical order of the SCSI disks.
2212121	Synthetic full backup schedules do not get scheduled when all previous full backups have expired.
2439473	The Windows Administration console tries to ping the host even if the following option is set: 'Disable ping connection checking'.
2608114	NetBackup Windows User Interface issue.
2622338	NetBackup Windows User Interface issue.
2614653	When a database's transaction logs are backed up during a differential backup, the transaction log backup is aborted.
2592720	When a database's transaction logs are backed up during a differential backup, the transaction log backup is aborted.
2086766	Backup timestamps differ between Microsoft SQL and the NetBackup catalog. That causes an invalid and confusing interface display and functional sequence issues.
2043217	Backup timestamps differ between Microsoft SQL and the NetBackup catalog. That causes an invalid and confusing interface display and functional sequence issues.
2579307	Backup timestamps differ between Microsoft SQL and the NetBackup catalog. That causes an invalid and confusing interface display and functional sequence issues.
2626710	Backup timestamps differ between the Microsoft SQL server and the NetBackup catalog. That causes an invalid and confusing interface display and issues with functional sequences.
2587844	Mapped Full VMware backups abort when they write to a Media Server Deduplication Pool (MSDP) or PureDisk Deduplication Option (PDDO) storage.
2494673	Mapped Full VMware backups abort when they write to a Media Server Deduplication Pool (MSDP) or PureDisk Deduplication Option (PDDO) storage.
2681069	NetBackup for VMware issue.
2416198	Preview media in the NetBackup-Java Administration Console for a file in cumulative increments returns media for all incremental and full backups.
2403193	The tape library inventory operation may report that a media ID is not unique in the NetBackup Enterprise Media Manager database.
2206222	The bprd process is unable to remove logs greater than 2 gigabytes.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2211818	The timestamp of the last Exchange database backup is incorrectly converted to a value with more than 10 digits and stored in the master server. The bpclient command reports the last backup time as 0.
2208565	The Bare Metal Restore client configuration cannot be saved on an HP-UX server with a long network interface name.
2420450	The bpbrm program incorrectly generates email notifications for snapshot jobs during multistreamed backups.
2665486	This fix enables the use of the touch file, USE_BACKUP_MEDIA_SERVER_FOR_RESTORE for restore jobs. That allows the media server that was used to perform the backup operation to be selected.
2583566	This fix enables the use of the touch file, USE_BACKUP_MEDIA_SERVER_FOR_RESTORE for restore jobs. That allows the media server that was used to perform the backup operation to be selected.
2269521	Backups on a FreeBSD system fail to recognize mount points on the Zeta File System.
2441838	The Tape Mount Request alert is not generated for restore jobs.
2650649	NetBackup OpsCenter Alerts issue.
2600512	OpsCenter does not generate 'Media Required For Restore' alerts.
2622505	Some OpsCenter reports require the media ID field to be populated in the job database for all child jobs of multiplexed backups and duplications. Without that, the reports cannot determine the type of storage unit in use.
2416944	Some OpsCenter reports require the media ID field to be populated in the job database for all child jobs of multiplexed backups/duplications. Without this, the reports cannot determine the type of storage unit in use.
2650641	OpsCenter does not generate Media Required For Restore alerts.
2381571	Some OpsCenter reports require the media ID field to be populated in the job database for all child jobs of multiplexed backups/duplications. Without this, the reports cannot determine the type of storage unit in use.
2636625	The bpdbm process can cause duplications that run for a long time to timeout from apparent inactivity.
2660744	NetBackup for VMware issue.
2489363	The Drive Utilization shows lesser utilization for jobs with a large number of fragments that run for a long time.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2348073	The vltadm command does not display the last retention level.
2694003	NetBackup OpsCenter issue.
2685232	NetBackup OpsCenter issue.
2682994	The nbcatsync process does not recognize compressed image catalog files.
2669736	Open Storage plugin errors occur because files with the suffixes _OPT_DUP_BEGIN and _OPT_DUP_END cannot be deleted.
2346788	The nbkms process core dumps when "nbkmsutil -createkey -keyname 'name' -kgname 'name' -activate" is run. If "-activate" is omitted, then nbkms does not core dump and additional keys can be created.
2525056	NetBackup Infrastructure issue.
2514151	On an Advanced Interactive Executive (AIX), the creation of a CD-based shared resource tree (SRT) fails. That occurs when an imported SRT is used and the SRT location is changed before import.
2238579	When the bpcoverage -c client_name syntax is used, it tries to resolve all client names.
2376552	The dbbackex.exe file freezes and consumes excessive memory when a backup of a FILESTREAM-enabled SQL database is initiated. The SQL Agent interface fails when the SQL server connection properties are set and the default SQL instance is not installed.
2637282	Duplication to a Remote Master replication storage server causes disk volume on the source site to go down.
2651526	The AIR replication storage server causes disk volume on the source site to go down.
2631726	Duplication to a Remote Master replication storage server causes disk volume on the source site to go down.
2341546	A Bare Metal Restore of a RHEL 4 client fails because the boot loader installation fails.
2387319	This fix addresses a performance issue in NetBackup Access Control. When the user belongs to a large number of groups, the Administration Console runs slowly.
2554090	NetBackup Java User Interface issue.
2592672	NetBackup Java User Interface issue.
2601560	After an upgrade from 7.0 to 7.1, a browse for the SQL client fails with a status code 23 and causes a bpdbm application fault. The following error message appears: 'unexpected return value from db_FLISTreceive'.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2583875	After an upgrade from 7.0 to 7.1, a browse for the SQL client fails with a status code 23 and causes a bpdbm application fault. The following error message appears: 'unexpected return value from db_FLISTreceive'.
2243140	The bpdbm program can encounter long delays when it processes a file list for restores.
2246959	The bpdbm program can encounter long delays when it processes a file list for restores.
2244594	VMware restores fail because of a failure to interpret a Japanese Language NULL correctly.
2488130	While the bpbrm program processes new jobs, it may neglect to process exit statuses from bpbrm child processes.
2634978	NetBackup for VMware issue.
2418394	The bpspsserver.exe program faults when a database-level (non-granular) backup is performed for SharePoint resources.
2582009	When Storage Resource Management is used to create virtual machine copies, these copies may not back up properly or at all. The binaries in this EEB package allow for these backups to work.
2411537	NetBackup for VMware creates temporary files and folders, however it does not remove them.
2639354	The Deduplication Engine (spad) process sometimes fails during backup and duplications jobs.
2526403	Prepare To Restore fails for Veritas Volume Manager (VxVM) and Solaris clients if there are VxVM disks with the same names in separate disk groups.
2428117	Virtual clients that reference more than one master server appear in the Viewbuilder "Unassigned" view.
2588648	Virtual clients that reference more than one master server appear in the Viewbuilder "Unassigned" view.
2660255	NetBackup OpsCenter View Builder issue.
2382403	Virtual clients that reference more than one master server appear in the Viewbuilder "Unassigned" view.
2643195	A browse of Exchange granular mailbox backups fails. That occurs because the bpdbm process tries to use media servers that are not part of the Granular Backup and Restore setup.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2673222	A browse of Exchange granular mailbox backups fails. That is because the bpdbm process tries to use media servers that are not part of the Granular Backup and Restore setup.
2413742	A browse of Exchange granular mailbox backups fails. That occurs because the bpdbm process tries to use media servers that are not part of the granular Backup and Restore setup.
2513175	A browse of a Granular Recovery Technology (GRT) data image fails when a media server that is not part of the granular setting is used.
2653915	A browse of Exchange granular mailbox backups fails when media servers that are not part of the Granular Backup and Restore setup are used. An Exchange granular backup fails when backup images are saved to a PureDisk storage unit.
2440095	Backups of sparse files time out with a status code 40. The fix avoids the need to handle backup files if they are sparse.
2410815	The following storage retrieval error wrongly suggests that the file is not in storage: "The system cannot find the file specified".
2681086	NetBackup for VMware issue.
2665356	NetBackup OpsCenter issue.
2586567	The export or import of objects causes only the Attributes tab to be available under the Properties menu.
2636315	Incremental deduplication Network Data Management Protocol backups on an EMC Celerra appliance fail with the following error in the bptm log: 'not a valid tar header'.
2567851	A report filter is reset to "None" after an export or import of a view.
2202451	Large numbers of junction points can result in slow backups.
2223052	Large numbers of junction points can result in slow backups.
2244500	This EEB addresses an error where the bpdm process core dumped.
2654222	This fix resolves an issue where Content Router containers are not properly released to the OS when thresholds are reached.
2657085	This fix resolves an issue where Content Router containers are not properly released to the OS when thresholds are reached.
2210006	A custom report that queries job data renders duplicate rows.

Table C-1 NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2009053	The cluster virtual name for "source media server" cannot be selected when the advanced configuration option is used for duplications in a vault configuration.
2439853	OpsCenter generates the following alert, even when tapes are available: "No Cleaning Tape Available".
2189679	When the bpgetconfig -A -t -L command is run, there is no line break between the CLUSTER_NAME and Patch Level fields in the output.
2315619	A message reads that the NetBackup Vault detail.log file is misclassified.
2580349	The FilePath does not display information consistent with the Veritas Backup Reporter (VBR) in the custom reports.
2579616	The PureDisk job data collection fails because of a recursive loop problem.
2331633	In OpsCenter 7.1, a Custom Tabular report does not sort the Client Name column.
2182083	The NetBackup cluster group may fail if the bpdbm keep alive process fails to respond in 10 seconds.
2528810	The "bpdbm -alive_local" command causes a clustered NetBackup to fail if there is no response in 10 seconds.
1077887	This fix treats the Loopback File System (LOFS) as a local drive for Solaris 10 Zone support.
1155270	This fix treats the Loopback File System (LOFS) as a local drive for Solaris 10 Zone support.
1204968	NetBackup Agent for UNIX Client issue.
2138872	NetBackup Agent for UNIX Client issue.
1603726	NetBackup Agent for UNIX Client issue.
1377572	The zeta file system (ZFS) is not backed up when the ALL_LOCAL_DRIVES directive is used.
1165573	NetBackup Agent for UNIX Client issue.
2251888	Shadow copy components do not restore correctly when a job is initiated through the NetBackup-Java Administration Console from a Windows console.
2637606	When the close_server command is not called for a multiplexed backup to a PureDisk Deduplication Option storage unit, severe resource leaks result.
2567947	If multi-stream and multiplexing backups are configured to a deduplication storage unit, a disk pool down situation results because of too many open connections.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2614598	Backups of Universal Naming Convention paths with NTIO disabled cause the bpbkar32 process to return a status code 13. The following message appears: 'Sidkey::Sidkey: FTL Internal Error'.
2527657	During a Universal Naming Convention (UNC) backup, an application fault occurs in the bpbkar32.exe executable.
2599116	During FullVM restores, the following is logged in the problems report and bprd logs: 'get_win_path: Bad file path /\\.\VMFILE0'.
2158198	The Deduplication Engine and Content router (spoold) does not start and returns the error: Could not move 'compactd.log' to 'compactd.spare'.
2073963	The Deduplication Engine and Content router (spoold) does not start and returns the error: Could not move 'compactd.log' to 'compactd.spare'.
2575307	The Skipped File data collection does not collect after an upgrade from NetBackup 7.1 to 7.1.0.1.
2613842	The recovery of an RH client fails to restore files greater than 17 gigabytes.
2516114	The recovery of a Linux client sometimes fails to restore files greater than 16 gigabytes.
2516201	NetBackup Windows User Interface issue.
2561983	Non-Snapshot backups on Exchange 2003 fail with a status code 69, unless the NetBackup Client and NetBackup Legacy services run as an Administrator.
2230664	Exchange 2003 Microsoft Cluster Server streaming (non-snapshot) backups fail with a status code 69.
2607106	Non-Snapshot backups on Exchange 2003 fail with a status code 69, unless the NetBackup Client and NetBackup Legacy services run as an Administrator.
2535280	Non-Snapshot backups on Exchange 2003 fail with a status code 69 after an upgrade from 7.0.1 to 7.1. That occurs unless the NetBackup Client and NetBackup Legacy services run as an Administrator.
2324983	A Windows offhost FlashBackup to a clustered media server intermittently fails with a status code 156 and the following error: "V-76-58645-381: Could not lock all volumes. Dynamic disk group was not deported."
2655967	NetBackup OpsCenter Reports issue.
2513073	NetBackup OpsCenter Reports issue.
2705855	NetBackup OpsCenter Alerts issue.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2556647	A restore selection in the NetBackup Microsoft SQL Agent interface presents Databases that are hosted by Named Instances as hosted by the Default Instance.
2572537	NetBackup Java User Interface issue.
2238371	In the NetBackup-Java Administration Console, client names cannot be drag-dropped or copy-pasted between policies.
2617515	NetBackup Java User Interface issue.
2360108	Clients cannot be copied from one policy to another on the NetBackup-Java Administration Console after an upgrade to NetBackup 7.0.1.
2380628	Filesystems cannot be mapped on dynamic disks on a Windows 2008 R2 platform, yet the backup exits with a status code 0.
2280654	Filesystems cannot be mapped on dynamic disks on a Windows 2008 R2 platform, yet the backup exits with a status code 0.
2651598	NetBackup for VMware issue.
2424402	If a multiple tape eject is performed while at least one of the tapes to be ejected is currently active, eject pop up windows fail.
2443428	If a multiple tape eject is performed while at least one of the tapes to be ejected is currently active, eject pop up windows fail. A NullPointerException occurs at VmChangeCommandParser.getVolumeStatusStringTLx.
2611594	Duplicate jobs are not listed in the All Failed Backups report.
2131558	A VMware restore fails in the bprd process with the following error: "bprd.sfr: flush_to_bptm: put_data returned -4".
2612946	Alerts still generate for a master server that was once a member of the View filter for the alert policy but has since been removed.
2331619	When the Drive Naming Rules configuration is accessed in the NetBackup-Java Administration Console on the clustered master server, a Java exception occurs.
2337727	This is a fix for SAN Client-based restores that fail with the following error: "Invalid TAR header".
2354449	This EEB fixes the "db restore" command to allow the Copy Number and Media Server to be specified in the DB2 Command Line Interface.
2496562	The Distinct operation on the Client Name column in the Custom Tabular report sometimes returns the value 'ROOT_NODE' instead of the client name count.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2692716	This fix ensures that unavailable ALTPATHs on Windows and dead symlinks on Unix and Linux do not cause media with live images to get de-assigned.
2675546	NetBackup OpsCenter Data Collection issue.
2690949	NetBackup OpsCenter Data Collection issue.
2681129	NetBackup OpsCenter Data Collection issue.
2674385	A missing field in an image database fragment record causes NetBackup Vault to core dump because it tries to copy data from a NULL pointer.
2310293	The bmrsrtadm process catches a runtime error when it tries to create a RedHat 5.6 Shared Resource Tree. The following message appears: 'Could not load the following package(s) from distribution media: pciutils (pciutils-2*.x86_64.rpm)'.
2567405	The bmrsrtadm process cannot create a RHEL 5.6/5.7 Shared Resource Tree.
2668687	Shared Resource Tree creation fails on RHEL 5 Update 6 and RHEL 5 Update 7.
2662779	The NetBackup Legacy Client Service starts and then stops with the following error: "The NetBackup Legacy Client Service service terminated unexpectedly."
2386167	The Certificate Authority database is not successfully restored.
2682756	On Windows 2008 SP2 systems with split partitions, attempts to perform a Dissimilar Disk Restore fail.
2620427	Agent version 7.1.0.2 service stops abruptly and shortly after starting when collecting from Backup Exec 10. Reverting agent to 7.1.0.1 resolves the problem.
2318465	NetBackup Java User Interface issue.
2191448	This EEB allows for the flexibility to set the bpstart_notify timeout.
2612770	This fix addresses a memory leak in the nbazd process. The amount of memory that the nbazd process uses increases over time.
2235961	The restore of an Active Directory Application Mode or Lightweight Directory Services database in a replicated environment does not reset the InvocationID. That causes replication after the restore to fail.
2659603	After an install of 7.1.0.3 on a Windows system, the license for database goes to the default value 1 for CPU usage.
2652723	NetBackup OpsCenter issue.
2514503	A node of type GENERIC cannot be created in a tree of type MASTER_SERVER.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2163477	An invalid disk header appears when images are imported in Phase 1 on a Basic Disk storage unit.
2554511	When the nbstserv and dblib processes access the same licensing file, a core dump may occur.
2331617	The nbstserv process core dumps because the parameter db_getDATA_CLASS_LIST was wrong.
2229336	The bptm program may fail with a status code 94 during multiplexed duplication.
2422274	An SAP backup ignores the checkpoint restart.
2599083	After the bundle EEB4_PET2175367_SET2175325 is installed, the bptm process core dumps during Network Data Management Protocol restores.
2245820	A Network Data Management Protocol restore from a NetBackup 6.5.4 media server fails with a status code 25.
2666802	NetBackup NDMP issue.
2676189	NetBackup NDMP issue.
2609490	The bptm process core dumps when it restores images created prior to 7.0.
2598514	The bptm process core dumps during a restore attempt.
2420379	After an upgrade to NetBackup 7.0.1, clients cannot be removed from the clients attributes list.
2193603	Trivial (TRV) messages in the error log slow down the Veritas Backup Reporter (VBR) job data collection.
2209738	The nbjm process causes jobs to abort with a status code 40.
2672564	NetBackup OpsCenter Alerts issue.
2610311	The drive is down and the alert policy does not work correctly with 7.x master servers. When a drive path is down in NetBackup, OpsCenter raises the drive down event.
2590488	The mmcrawl.exe program fails when it is run manually or the nbsu process runs it.
2614535	The media server selected to verify a backup is different than the one that wrote the backup. That causes the verification to take much longer than expected.
2353099	The quick erase operation can overwrite assigned media.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2185079	The bpbrm program may freeze if BPCD_GET_NB_VERSION_RQST does not complete. Other jobs freeze and cannot be canceled.
2233899	The bpdbm program consumes all available CPU cycles and causes the system to freeze.
2388631	A one-time script was created to reset AIR Source images to allow Re-Replication of images that were lost on the Destination Master due to a LUN being deleted.
2410253	Since an upgrade to NetBackup 7.0.1, some paths are grayed out and not selectable for restore.
2421743	Since an upgrade to NetBackup 7.0.1, some paths are grayed out and not selectable for restore.
2665453	Image Verify and Optimized Duplications from a PureDisk Deduplication Option Storage Unit fail while the storage unit reroutes. The following error occurs: "media open error (83)".
2438904	Reports that use the Job Retention Level column display two numbers instead of data that the user understands.
2652715	NetBackup for VMware issue.
2670418	NetBackup for VMware issue.
2260724	With multipath software, a Bare Metal Restore backup to discover the client configuration always completes with a status code 1.
2210707	This fix improves performance and stability for a NetBackup image cleanup of deduplication images.
2591183	The Java View Builder search does not list deleted clients.
2555571	When a NetBackup for a MSSQL agent process is terminated while a backup or restore is in progress, an error occurs. The SQL backup parent job freezes until NetBackup is restarted on the master server.
2587656	When a NetBackup for a MSSQL agent process is terminated while a backup or restore is in progress, an error occurs. The SQL backup parent job freezes until NetBackup is restarted on the master server.
2355860	Alerts that jobs have frozen are generated for duplication jobs that are not related to the policy that the alert specifies.
2072918	A Lotus Notes restore fails with a status code 5. The following message appears in the tar log: 'Failed: 0x102:Cannot write or create file (file or disk is read-only)'.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2510495	An EXCLUDE list entry with spaces causes the EXCLUDE list not to be passed to the ndmp session.
2579274	An EXCLUDE list entry with spaces causes the EXCLUDE list to not be passed to the ndmp session.
2432273	NetBackup Systems Management (Policies, Scheduling, and so forth.) issue.
2434869	A restore of a copy 2 made from Optimized Duplication fails because the buffer size is different than copy 1 in the image header file.
2361548	A calendar monthly FULL backup skips clients when the calendar-run day is not defined in the policy.
2393120	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2385825	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space
2532199	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2562242	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2563662	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2436324	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2562179	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2612736	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2658267	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2376845	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2580249	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2580250	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2562537	A one-time script has been created to address when a Disk storage unit is full. The nbdevquery report shows negative numbers for the raw size when the High Water Mark is exceeded and there is insufficient disk space.
2535381	The bptm program may core dump because client or host names have % characters in them.
2388729	The bptm program may core dump if the backup image has spaces in the name.
2235194	Emails from custom SQL reports repeat the data several times when the report is more than around 100 lines.
2217310	Data exports from custom SQL reports have duplicate rows.
2555656	During an Exchange 2010 DAG backup, the bpfis process faults and causes the backup to fail.
2338085	A change was made to Tape Library DLT robotics to allow more than 64 concurrent tape mounts to be processed correctly.
2534603	The Tape Library DLT robotic tape library daemons cannot handle more than 64 concurrent mounts or unmounts on Windows and terminates abnormally.
2435472	This fix removes a Java NullPointerException that occurs when Media Servers are viewed under the Devices node.
2517308	Microsoft Exchange backups fail with a status code 59 and the NetBackup Frozen Image Service (bpfis) process freezes. That occurs when the user attempts a reverse lookup on an Automatic Private IP Address (APIPA).
2419941	The bprd process fails on virtual machine restores if the virtual machine display name has a space.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2584243	NetBackup NDMP issue.
2648091	NetBackup NDMP issue.
2199079	Oracle databases cannot be expended out when the Oracle template wizard is used with the NetBackup-Java Administration Console.
2431047	The View Status window in the Backup, Archive, and Restore interface can report failed jobs as successful.
2638634	The Netbackup Policy Execution Manager (nbpem) core dumps when a job is started with Multistreaming disabled and then restarted with Multistreaming enabled. Schedules are not done properly after a job fails.
2360170	If a failed 'frequency based schedule' job is restarted from the activity monitor, the next scheduled job cannot run.
2347799	This EEB addresses an application fault in the nbpem process.
2381725	NetBackup Infrastructure issue.
2702412	NetBackup Agent for IBM Lotus Notes issue.
2206302	Lotus backups on SLES 11 SP1 fail with a status code 103.
2045109	This EEB changes the check for full disks to include potential free space on capacity-managed file systems.
2513284	When the user performs backups to a capacity-managed advanced disk storage unit, a status code 129 appears even though space is available on the disk.
2720875	When backups are performed to a capacity-managed advanced disk storage unit, a status code 129 is returned even though space is available on the disk.
2585725	An imported second copy of a VMware image does not appear in the Backup, Archive and Restore interface.
2673422	The import of a second copy of a VMware image does not show in the Backup, Archive, and Restore interface.
2182594	This fix addresses a request to support copy back restores from snapshots for SVC series arrays.
2615920	The IP Address information for the CLIENT setting in a restore configuration is not set to match the value in the user interface.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2566443	The IP Address information for the CLIENT setting in a restore configuration is not set to match the value in the user interface.
2620517	When True Image Restore information is read, the Expected and Received values mismatch.
2687933	NetBackup OpsCenter Reports issue.
2511778	Custom queries that use an "Order By" clause display incorrect data.
2381917	The bpfis process freezes when VMware creates snapshots.
2391647	After an upgrade from NetBackup 7.0.1 to 7.1, VMware backups through a Media Server are slow and max out a core of the CPU.
2357995	The bmrsrtadm process fails to create an Advanced Interactive Executive (AIX) 5.3 TL9, TL10, and TL11 shared resource tree on an AIX 6.1 Boot Server.
2531170	Shared Resource Tree creation fails during the installation of OS filesets.
2234328	Remote installation does not work with the Japanese Language Pack.
2493282	The ORDER BY clause in Custom SQL is not honored when it is run from within the OpsCenter Console.
2437110	The NetBackup Tape Library DLT (TLD) control process aborts after it fails to communicate with the media server(s) 11 times.
2280070	The disk pool freezes in a state 4098 and does not unlock until NetBackup is restarted.
2629333	During a hot catalog backup, the database files in the staging area have permission 0666, which allows everyone access to the files.
2171956	The nbpemreq -anything command returns the message: "cannot connect to nbpem".
2177664	In the NetBackup-Java Administration Console, the user cannot expand any backup selections for Individual Public Folders to perform an Exchange restore. They can select a complete restore, but cannot drill down or expand out any exchange backups.
2603820	An offhost alternate client backup fails if the alternate client has the same drive letter as that of the source volume. Backups fail if the alternate client drive is not readable.
2182676	In NetBackup versions 7.0 and later, devices that have been unchecked in the Device Configuration Wizard are still added and show up grayed out.
2683201	NetBackup Windows User Interface issue.
2568107	Alert generation for the 1 Job Finalized alert policy fails.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2660247	NetBackup OpsCenter Alerts issue.
2209122	High-water mark events generated by a Disk Staging Storage Unit (DSSU) seem to periodically not get processed by evtmgr.
2415618	The bpfis -delete command for HP_XP_Business Copy fails with the following message in the hplvmfi log: "No. of subobjs not same."
2589454	Data loss is possible when images are duplicated from the NetBackup media server deduplication to the PureDisk, and the images have more than 10 fragments.
2211512	Backups fail because of insufficient space on the disk. That causes snapshots to be deleted and Enterprise Vault services to not restart within the specified time, which makes the Enterprise Vault freeze.
2197916	This fix addresses the poor performance on Oracle script-based Block Incremental (BLI) cumulative and differential backups.
2524786	A restore fails because of incorrect path names for raw devices in the restore script. Also, there is a performance issue during a restore of SAN Volume Manager (SVM) mirrored volumes.
2280426	Solaris 10 SAN Volume Manager client restores fail to properly mount the root mirror device.
2722749	NetBackup Bare Metal Restore issue.
2162166	Memory usage by the nbjm process rises, followed by an application fault in nbjm.
2391772	This is a NetBackup 7.1.0.1 EEB for the nbdeployutil traditional and capacity report utility.
2559092	This is a NetBackup 7.1.0.3 EEB for the nbdeployutil traditional and capacity report utility.
2326560	This EEB provides a Beta2 traditional licensing tool for NetBackup version 7.0.
2326562	This EEB provides a Beta1 traditional licensing tool for NetBackup version 7.0.1.
2391771	This is a NetBackup 7.0 EEB for the nbdeployutil traditional and capacity report utility.
2401880	This is a NetBackup 6.5.5 EEB for the nbdeployutil traditional and capacity report utility.
2391770	This is a NetBackup 7.0.1 EEB for the nbdeployutil traditional and capacity report utility.
2326558	This EEB provides a Beta2 traditional licensing tool for NetBackup version 6.5.6.
2389993	This is a NetBackup 7.1.0.2 EEB for the nbdeployutil traditional and capacity report utility.
2326563	This EEB provides a Beta1 traditional licensing tool for NetBackup version 7.1.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2371026	This EEB provides a Beta1 traditional licensing tool for NetBackup version 7.1.0.1.
2391766	This is a NetBackup 6.5.6 test EEB for the nbdeployutil traditional and capacity reporting utility.
2391768	This is a NetBackup 7.1 EEB for the nbdeployutil traditional and capacity report utility.
2333936	The Enterprise Vault AdminService fails after the backup starts because of a file access violation when it tries to read the topology file EVBackup.xml.
2413492	NetBackup Service Layer issue.
2537018	Restores of large virtual machines fail because of negative data blocks reported in the bprd and bptm processes.
2614362	Restores of large virtual machines fail because of negative data blocks reported in the bprd and bptm processes.
2555860	The Tape Library DLT CD daemon should verify that tape drives are in the correct state before it moves media back to its home slot.
2614607	The Tape Library DLT CD daemon should verify that tape drives are in the correct state before it moves media back to its home slot.
2672692	NetBackup Systems Management (Policies, Scheduling, and so forth.) issue.
2233504	The master server performance is degraded because of an OpsCenter polling interval.
2150296	The nbsvrgrp program may report an incorrect error message because of an uninitialized variable.
2591851	In the Veritas Mapping Service, incremental backups to the Media Server Deduplication Pool fail with status codes 13 and 84.
2661919	VERITAS Federated Mapping Service issue.
2720643	VERITAS Federated Mapping Service issue.
2282993	Large NetBackup restore jobs can cause the bpcd process to use 100% of the CPU on the master because of bpcd and bpbrm process issues.
2354601	The user cannot perform a Network-based Bare Metal Restore discovery boot with NetBackup Access Control set to Required.
2191073	On Windows 2008 R2 platforms, silent client installs display a dialog box if NetBackup processes are in progress.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2405795	An error occurs in vgimport that causes it to fail on HP_XP_BusinessCopy alt client snapshot backups.
2199446	Oracle backup jobs use the same template file specified in the other policies.
2386858	Network Data Management Protocol restores to a tape do not display 'Kilobytes read' and 'KB/Sec' information in the job details.
2169147	NetBackup attempts to locate past the end of data (EOD).
2168602	When the bpexpdate -deassignempty command is run when Veritas Security Service is installed, the following error occurs: "Could not obtain report for host 'host', VxSS authorization failed".
2563048	In the OpsCenter Java View Builder Recycle Bin, the "Restore" and "Purge" functions do not work.
2567597	This fix makes changes in VMwaretools so the guestnetinfo command can be used to obtain the IP address information from the virtual machine.
2717447	NetBackup services does not go down in timely manner when an IP resource becomes unavailable.
2511449	Replications fail in the second step when images are imported because of the differences in schedule type definition between the PureDisk Deduplication Option and NetBackup.
2647545	The Auto Image Replication import phase fails with the error: 'Invalid schedule type: 5'.
2389086	This EEB fixes a problem where an import of PureDisk or OpenStorage disk images can fail. That is because the image schedule type is incorrect.
2647549	The Auto Image Replication import phase fails with the error: 'Invalid schedule type: 5'.
2182273	Synthetic backups can fail with a status code 671 for a file that was not saved by the prior Full backup.
2606672	When images duplicate from a basic disk storage unit to a mount point to another Data Domain device, image fragments remain on the mount point.
2532548	Images fragments are left on the mount point defined in the basic disk storage unit.
2678518	Images fragments are left on the mount point that is defined in the basic disk storage unit.
2685622	There are possibly orphaned .img or .info files after data images are deleted.
2358946, version 9	This is a bundle of many fixes for VMware.

Table C-1   NetBackup 7.1.0.4 EEB Listing *(continued)*

Etrack Number	EEB Description
2415833, version 1	This is the NetBackup 6.5.6 Storage Lifecycle Policy EEB (3) Bundle (ETrack 2073042). It includes the first change set for ETrack 2222847, which creates a worker thread pool to process high watermark events.
2477769, version 1	This is a NetBackup 7.1.0.1 EEB Bundle that includes Etracks 2411537 and 2358946.
2535076, version 2, 1	This is a NetBackup 7.1.0.2 Data Mover EEB Bundle.
2566895, version 1	This is a 7.1.0.2 EEB from ET2477769 with fixes that remove temporary files created by bpVMutil inside C:\windows\temp. The EEB also contains fixes that handle a Virtual Machine that does not have an entry in the cache.
2683850, version 1	NetBackup for VMware issue.
2686719, version 1	This is a NetBackup 6.5.6 test EEB for the nbdeployutil traditional and capacity reporting utility bundled with fix to skip corrupt image headers