

Symantec NetBackup 7.1.0.1 Release Notes

UNIX, Windows, and Linux

NetBackup 7.1.0.1 Maintenance Release



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- 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
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- Information about upgrade assurance and support contracts
- Information about the Symantec Buying Programs
- Advice about Symantec's technical support options
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New Features and Enhancements

This chapter includes the following topics:

- [About the NetBackup 7.1.0.1 enhancements](#)

About the NetBackup 7.1.0.1 enhancements

This maintenance release focuses on fixes to the known issues that include the customer-specific issues that have been documented in the form of a Titan Case. Many of these fixes were in the form of engineering binary bundles that were created to address specific customer issues with previous version of NetBackup. This maintenance release contains those engineering binary bundles.

This release contains the following OpenStorage Optimized Duplication Performance and Stability Enhancements.

With a NetBackup 7.1.0.1 media server initiating the duplication, the following scenarios are supported: (Note, that the initiating media server is a server that has been configured to have an access to both the source and the target storage units in an optimized duplication scenario. By default, NetBackup allows all media servers to have access to all storage units.)

- Duplications from NetBackup Media Server Deduplication Pool (MSDP) 7.1.0.1 to MSDP storage pool versions 7.0, 7.0.1, 7.0.1 with the RockSolid EEB Bundle (ET2233961), 7.1 and 7.1.0.1
- Duplications from NetBackup Media Server Deduplication Pool (MSDP) 7.1.0.1 to PureDisk Deduplication Option (PDDO) 6.6.0.3 with EEB 31 (ET2286421), and PDDO 6.6.1.2 with EEB4 (ET2253079)

Please reference Article TECH161306 on the Symantec Support Web site for additional upgrade and configuration information related to this feature.

For a complete list of the new NetBackup 7.1 features and enhancements, refer to the "New NetBackup Features" chapter in the *NetBackup 7.1 Release Notes for UNIX, Windows, and Linux*. Use the following URL to locate this document on the Symantec Support Web site.

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

Before you install this release, make sure that you have installed NetBackup 7.1. You can apply this release to any NetBackup 7.1 master, media, or client server, in any order, and retain compatibility between the components.

Table 1-1 Mixed-server compatibility

Master server version	Media server version	Client version
NetBackup 7.1	7.1	7.1
NetBackup 7.1	7.1	7.1.0.1
NetBackup 7.1.0.1	7.1.0.1	7.1
NetBackup 7.1.0.1	7.1.0.1	7.1.0.1

Platform Compatibility

This chapter includes the following topics:

- [About platform compatibility for NetBackup 7.1.0.1](#)
- [NetBackup compatibility lists](#)
- [About NetBackup binary sizes](#)

About platform compatibility for NetBackup 7.1.0.1

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 *NetBackup 7.1 Release Notes for UNIX, Windows, and Linux* on the Symantec Support Web site.

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

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. The following compatibility lists are available on the Symantec Support Web site:

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

- 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
- *NetBackup 7.x Cluster Compatibility List*
- *NetBackup Desktop/Laptop Option compatibility list*
- *Backup Exec Tape Reader compatibility list*

To locate platform compatibility information on the Symantec Support Web site

- 1 Go to the following URL:
www.symantec.com/business/support
- 2 Select the **NetBackup Enterprise Server** link under the **Top Products** title on the Web page .
- 3 Select **NetBackup Master Compatibility List** link under the **Compatibility List** title on the Web page .

The Web page refreshes and contains a list of compatibility documents. From this Web page, you can refine your search to find a link to the appropriate document. (The compatibility list documents are in PDF format. You must have Adobe Acrobat Reader to view these documents.)

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 2-1](#) 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 2-1 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	New platform in this release.
Asianux 2.0, 3.0	x64		624MB		2564MB	
Canonical Ubuntu 8.0	x64		624MB			
Canonical Ubuntu 9.04	x64		624MB			New platform in this release.
Canonical Ubuntu 10.04	x64		624MB			New platform in this release.
CentOS 5.2, 5.3	x64		624MB			
Debian GNU/Linux 4.0, 5.0	x64		624MB			
FreeBSD 6.1, 6.2, 6.3, 7.x, 8.x	x86	120MB				Added the 8.x platform in this release.
FreeBSD 8.x	x64	120MB				New platform in this release.
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				
Novell Open Enterprise Server 2	x64		611MB		2492MB	
OpenVMS 5.5	HP VAX	16MB				
OpenVMS 6.2	HP VAX	16MB				

Table 2-1 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 VAX	16MB				
OpenVMS 6.1	HP Alpha		16MB			
OpenVMS 6.2	HP Alpha		16MB			
OpenVMS 7.3	HP Alpha		16MB			
OpenVMS 8.2	HP Alpha		16MB			
OpenVMS 8.3	HP Alpha		16MB			
OpenVMS 8.2	HP IA64		16MB			
OpenVMS 8.3	HP IA64		16MB			
OpenVMS 8.3-1H1	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.
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 2-1 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.
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 Express	SPARC		738MB			64-bit binary compatible.
Solaris 11 Express	x64		535MB			64-bit binary compatible.
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	
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.

Table 2-1 NetBackup binary sizes for compatible platforms (*continued*)

OS/Version	CPU Architecture	32-bit client	64-bit client	32-bit server	64-bit server	Notes
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 VxVM 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.
	x1C.rte 8.0.0.10 fileset	For the x1C.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)	<p>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.)</p> <p>You can use the <code>oslevel -s</code> command to verify what Maintenance Pack level you have installed.</p>
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/libip6.sl	
	Networking.NET-RUN-64: /usr/lib/pa20_64/libip6.1	
	Networking.NET-RUN-64: /usr/lib/pa20_64/libip6.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/libip6.so	
	Networking.NET2-RUN: /usr/lib/hpux32/libip6.so.1	
	Networking.NET2-RUN: /usr/lib/hpux64/libip6.so	
	Networking.NET2-RUN: /usr/lib/hpux64/libip6.so.1	
	Networking.NET2-RUN: /usr/lib/libip6.1	
HP-UX PA-RISC	Networking.NET-RUN: /usr/lib/libip6.sl	For HP-UX PA-RISC platforms, this fileset is required:
	Networking.NET-RUN-64: /usr/lib/pa20_64/libip6.1	For HP-UX PA-RISC platforms, this fileset is required:
	Networking.NET-RUN-64: /usr/lib/pa20_64/libip6.sl	For HP-UX PA-RISC platforms, this fileset is required:
	Networking.NET2-RUN: /usr/lib/libip6.1	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	<p>Contains fixes for the following:</p> <ul style="list-style-type: none"> ■ QXCR1000593919: purifyplus dumps core in PA32 ■ QXCR1000589142: dldcrash in LL_new_descendent_list when the aCC application is exiting. ■ QXCR1000589142: dldcrash 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 <code>POLL_INTERVAL</code> to be set to zero in <code>/var/stm/config/tools/monitor/dm_stape.cfg</code> . That disables the <code>dm_stape</code> 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 <code>setuid</code> 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: <ul style="list-style-type: none"> ■ 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 <code>dlopen</code> 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	<p>Contains fixes for the following:</p> <ul style="list-style-type: none"> ■ QXCR1000593919: <code>purifyplus</code> dumps core in PA32 ■ QXCR1000589142: <code>dldcrash</code> in <code>LL_new_descendent_list</code> when the <code>aCC</code> application is exiting. ■ QXCR1000746161: <code>dlsym()</code> hangs ■ QXCR1000593999: <code>dld</code> emits assert messages for <code>chatr</code> +<code>mem_check</code> 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. This 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.

The following additional product dependency information applies to this release of NetBackup:

- Product dependency notification for customers running Microsoft Windows Vista or Windows 2008 server.

If you want to protect client (or server) systems that are running either Microsoft Windows Vista or Windows 2008 server, you may need to install Microsoft hot fix number KB952696. If you attempt to back up any protected files that have been encrypted by the operating system, NetBackup cannot back up these files. NetBackup reports that it is unable to access the encrypted files and the backup continues with all of the remaining files.

Note: That does not apply to NetBackup encryption. NetBackup encryption is separate from the file system encryption, meaning that NetBackup-encrypted files are backed up. In addition, this hot fix is not needed for any Windows version before Microsoft Windows Vista or Windows 2008 server. If you are running Vista or Server 2008, please refer to KB952696 to see if this hot fix is required for your operating system version

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)	5.1 SP1 and higher	5.1 SP1 and higher	
	6.1 (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	
HP-UX IA64	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	
Red Hat Enterprise Linux 4.0 (AS)	x86-64	4.1 to 5.0MP3RP3	4.1 to 5.0MP3RP3	
	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)	x86-64	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	
Solaris (SPARC)	9	5.1SP1 and higher	5.1SP1 and higher	
	10	4.1 MP2 and higher	4.1 MP2 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
SUSE Linux Enterprise Server 10	x86-64	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.	
	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	x86-64	5.0RU1 and higher	5.0RU1 and higher	
	IA64	NA	NA	
	POWER	5.0RU4 and higher	5.0RU4 and higher	
Windows 2003	x86-32	NA	4.3 and higher	
Windows 2003	x86-64	NA	4.3 and higher	
Windows 2008	x86-32	NA	5.0 and higher	
Windows 2008	x86-64	NA	5.0 and higher	
Windows 2008 R2	x86-64	NA	5.1 SP1 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>.

Table 3-3 Shows the integration improvements that were made between the various operating systems and the Veritas File System (VxFS).

Table 3-3 Improved Integration with Veritas File System (VxFS)

Operating system	OS Version	VxFS 5.0	VxFS 4.1	VxFS 3.5
AIX	5.3	X	NA	NA
HP-UX PA-RISC	11.11	NA	NA	X
	11.23	X	NA	NA
	11.31	X	NA	NA
HP-UX IA64	11.23	X	X	NA
	11.31	X	NA	NA
Red Hat Enterprise Linux 4.0 (AS)	x86-64	X	NA	NA
Red Hat Enterprise Linux 5.0 (AS)	x86-64	X	NA	NA
SUSE Linux Enterprise Server SLES 10	x86-64	X	NA	NA
	IA64			
SUSE Linux Enterprise Server SLES 11	x86-64	X	NA	NA
	IA64			
Solaris (SPARC)	9	X	NA	NA
	10	X	X	NA

Operational Notes and Issues

This chapter includes the following topics:

- [About NetBackup 7.1.0.1 Operational Notes](#)
- [About general NetBackup 7.1.0.1 notes](#)
- [About NetBackup OpsCenter limitations](#)
- [About NetBackup for VMware](#)

About NetBackup 7.1.0.1 Operational Notes

This 7.1.0.1 Maintenance Release is based on the NetBackup 7.1 release. That means the operational notes that were documented in NetBackup 7.1 may still apply to this release. Therefore, you should review that document if you have any questions or issues with this maintenance release.

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

The following sections contain the known operational notes that apply to this release.

There may be additional changes and updates to this document after it has been released for General Availability. To see the latest information about this release, you can download the following document from the Symantec Support Web site.

<http://www.symantec.com/docs/DOC3941>

About general NetBackup 7.1.0.1 notes

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

- A change was made to ensure that you can use `THROTTLE_BANDWIDTH` on your windows master server.

With NetBackup 7.1, if you set the `THROTTLE_BANDWIDTH` on your windows master server with any value, the NetBackup Job Manager (NBJM) would crash. The result was a status 50 error code on all jobs.

A change was made to address this issue. If you were to encounter this issue, do not configure `THROTTLE_BANDWIDTH`.

- On AIX systems, you may receive an "Out of memory error" error.

On AIX systems, if you issue a java command on the installed folder you may receive a warning that the java application that is installed encountered an, "Out of memory error". If you receive this error message, run the `ulimit -d unlimited` command resolve this issue. All of the policies are activated and de-activated properly.

- During an installation or upgrade to 7.1.0.1 you may encounter, "**cannot access**" messages.

When you install NetBackup 7.1.0.1 or upgrade from NetBackup 7.1 to 7.1.0.1 on HP-UX, AIX, and Solaris, servers, you may encounter the following access errors. This issue pertains to upgrades on either the master or the media servers.

```
Extracting PDDE server package (/usr/opensv/pdserver.tar.gz)...  
Saving configuration files.  
cp: cannot access /usr/opensv/pdde/pdconfigure/etc/init.d/SuSE/pdservice  
cp: cannot access /tmp/pdinstall_filebackup/pdservice
```

You can safely ignore these messages. They do not affect the installation or upgrade of NetBackup 7.1.0.1.

- Optimized duplication fails between PDDO to PDDO with media write error (84) on AIX and Solaris 10 x86_64.

That issue applies to environments that run NetBackup 7.1 with a PureDisk 6.6.1, PureDisk 6.6.1.1, and PureDisk 6.6.1.2 deduplication agent on AIX or Solaris 10 x86_64 platforms. In these environments, optimized duplication fails with a media write error of 84.

If you encounter this issue, contact Symantec Technical Support to request a fix.

- For NetBackup Deduplication Engine users:

Following the installation of NetBackup 7.1.0.1, you may find that some deduplication services are not started. The services in question are “NetBackup Deduplication Engine” and “NetBackup Deduplication Manager”. Please start these services after the installation completes to restore deduplication operations. You can start the services with the Windows SCM console or through `bpup.exe`.

- If you use `bp.kill_all` to shut down an HP-IA media server you may receive a prompt to shut down `nbrmms`. If you continue and shutdown the NetBackup services you may encounter a core-dump issue. This issue does not affect the functionality.
- Vault jobs can end with a status 26 error after the duplication jobs complete. The Vault-specific functionality completes successfully. However, an error occurs when a shared resource is shut down because two modules use it at the same time.
- A firewall timeout setting may cause communication problems between NetBackup LiveUpdate processes. If you encounter communications issues during a LiveUpdate process, manually increase the firewall timeout.
- On AIX systems, you may encounter the following error when you extract the NetBackup 7.1.0.1 client patch.

```
Cannot write data extracted with the tar command:
```

```
A file cannot be larger than the value set by ulimit.
```

To resolve this issue, temporarily reset the file limit to **unlimited** by executing the following command:

```
ulimit, -f unlimited
```

- When you use LiveUpdate, the `nbmtrans` process may core dump. After LiveUpdate completes and a `nbmtrans` process is still running, you should terminate the `nbmtrans` process. If you do not terminate the process, it continues to run and eventually consumes all of the system CPU time.

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.

- You cannot install the OpsCenter 7.1 Language Pack after you install OpsCenter 7.1.0.1. If you attempt to install the OpsCenter 7.1 Language Pack after you have installed NetBackup 7.1.0.1 on Windows, the installer displays the following error message and quits:

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 NetBackup 7.1.0.1 Language Pack , please perform one of the following:

- If you have not installed 7.1 Language Pack but already installed 7.1.0.1, you must install the 7.1.0.1 Language Pack.
- If you have not installed 7.1.0.1 but already installed 7.1 Language Pack, you must uninstall the 7.1 Language Pack first and then install NetBackup 7.1.0.1 followed by the 7.1.0.1 Language Pack.

If you have not obtained the 7.1.0.1 Language Pack yet, please perform one of the following:

- Wait to upgrade to NetBackup 7.1.0.1 until the 7.1.0.1 Language Pack is available.
- If you have already installed 7.1.0.1, you must uninstall it, then install the 7.1 Language Pack, and then install NetBackup 7.1.0.1 again.

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

Symantec plans to release OpsCenter 7.1.0.1 Language Pack on the Symantec support Web site within a few weeks after OpsCenter 7.1.0.1.

Symantec strongly recommends that you wait to upgrade to 7.1.0.1 until the 7.1.0.1 Language Pack is available, unless you need to upgrade to 7.1.0.1 immediately.

- After you configure the OpsCenter 7.1.0.1 agent, the NetBackup master server version appears as 7.1 instead of 7.1.0.1.
- Before upgrading to OpsCenter 7.1.0.1, ensure that the drive or volume on which the OpsCenter database resides has three times as much free space as the current OpsCenter database. For example if your OpsCenter 7.1 database size (`vxpmdb.db` and `symOpSCache.db`) is 1 GB and you want to upgrade to OpsCenter 7.1.0.1, the specific drive, or volume on which the OpsCenter database resides must have at least 3 GB of available space.

Note: Once you install and start using OpsCenter 7.1.0.1, the database grows, and requires more space.

- When you use OpsCenter to collect data from a PureDisk server and then restart the OpsCenter services or processes, the data collection does not restart. That applies to both Windows and UNIX.
To start data collection again after restarting the OpsCenter services, you must edit the specific data collector and enable the data collection explicitly.
To start data collection for the PureDisk server :
 - Log on to the OpsCenter console.
 - In the OpsCenter console, click **Settings > Configuration > Agent**.
 - On the **Agent** list, expand the Integrated Agent to view the specific data collector for the PureDisk server.
 - Select a check box in front of the data collector.
 - Click **Edit Data Collector**.
 - Check if the data collection status is enabled. If the data collection is disabled, enable it. Select **Enabled** from the **Data Collection Status** drop-down list.
 - Click **Save**.

About uninstalling OpsCenter 7.1 before you install OpsCenter 7.1.0.1 on UNIX

If you have installed OpsCenter 7.1.0.1 and want to uninstall OpsCenter 7.1 from the system, Symantec recommends that you first uninstall OpsCenter 7.1.0.1.

That applies to both OpsCenter Server and OpsCenter Agent. If you uninstall OpsCenter 7.1 before you uninstall OpsCenter 7.1.0.1, you need to perform the steps in the following sections.

- Uninstalling OpsCenter Server 7.1 before uninstalling OpsCenter Server 7.1.0.1
- Uninstalling OpsCenter Agent 7.1 before uninstalling OpsCenter Agent 7.1.0.1

Uninstalling OpsCenter Server 7.1 before uninstalling OpsCenter Server 7.1.0.1

When you try to uninstall OpsCenter Server 7.1, before you uninstall OpsCenter Server 7.1.0.1, the installer prompts you with the following message:

Do you want to uninstall package SYMCOpsCenterPatch7101 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 7.1.0.1 before 7.1.

Note: : In case you enter 'n' for this prompt, only the OpsCenter Server 7.1 gets uninstalled and dependent 7.1.0.1 package entries are left. These package entries must be manually removed from the system if you want to reinstall OpsCenter Server 7.1.0.1.

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 7.1.0.1 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 7.1.0.1.

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 7.1.0.1 components. Before manually uninstalling OpsCenter 7.1.0.1, first confirm if that the OpsCenter Server 7.1.0.1 is still installed.

- 1 Run the following commands for specific platforms, to first confirm that OpsCenter 7.1.0.1 is still installed.

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

- 2 When it is confirmed that OpsCenter Server 7.1.0.1 is installed, run the following commands for specific platforms to uninstall the patch from your system.

```
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 7.1.0.1

When you try to uninstall OpsCenter Agent 7.1, before you uninstall OpsCenter Agent 7.1.0.1, the installer prompts you with the following message:

```
Do you want to uninstall package SYMCOpsCenterAgentPatch7101 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 7.1.0.1 before 7.1. Note: In case you enter 'n' for this prompt, only the OpsCenter

Agent 7.1 gets uninstalled and dependent 7.1.0.1 package entries remain. These package entries must be manually removed from the system if you want to reinstall OpsCenter Agent 7.1.0.1.

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 VRTSpx? [y,n,q,?] (n)

You can type 'n' and proceed as you need to uninstall the OpsCenter Agent separately. To remove any dependent 7.1.0.1 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 7.1.0.1 again.

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

You need to manually uninstall the OpsCenter 7.1.0.1 components. Before manually uninstalling OpsCenter 7.1.0.1, first confirm if that the OpsCenter Agent 7.1.0.1 is still installed.

- 1 Run the following commands for specific platforms, to confirm that OpsCenter 7.1.0.1 is still installed.

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

- 2 Once it is confirmed that OpsCenter Agent 7.1.0.1 is installed, run the following commands for specific platforms to uninstall the patch from your system.

```
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`

About planning an OpsCenter Agent deployment

Before deploying an OpsCenter Agent, you must decide if you need an OpsCenter Agent. To make this decision, you must examine the following parameters:

Do I need an Agent?	See “When do you need an Agent?” on page 40.
Can a single Agent can monitor multiple product versions?	See “Can a single Agent monitor different product versions?” on page 41.

Should I install the Agent on the product host?	See “Where should I install the Agent?” on page 41.
Should I install the Agent on a different platform?	
Quickly glance through the Agent deployment matrix	See “About the Agent deployment matrix” on page 45.
Examples of Agent deployment scenarios	See “Examples of OpsCenter Agent deployment in a NetBackup environment” on page 46.

When do you need an Agent?

You require an Agent based on the product that you want to collect data from. You do not need an OpsCenter Agent to collect data from PureDisk.

NetBackup	<p>The requirement for an OpsCenter Agent differs for each NetBackup version. Review the following points for specific NetBackup versions:</p> <ul style="list-style-type: none">■ 6.0.x Install an Agent if you want to collect data for image, error logs, or capacity license.■ 6.5.x Install an Agent if you want to collect data for image, error log, scheduled jobs, capacity license, or breakup jobs.■ 7.0.x Install an Agent if you want to collect data for breakup jobs and capacity license.■ 7.1.x Install an Agent if you want to collect data for capacity license.
PureDisk	<p>You do not require an OpsCenter Agent to collect data from PureDisk. If you installed the VBR Agent only to collect PureDisk data, you must manually uninstall it.</p>
IBM TSM, Backup Exec, Enterprise Vault, Legato Networker	<p>You require OpsCenter Agent to collect data from these products.</p>

Can a single Agent monitor different product versions?

A single Agent can monitor multiple versions of TSM, BE, EV. For EMC Networker and NetBackup master servers, you need separate Agents depending on the versions.

NetBackup	You need separate Agents to collect data from different NetBackup master servers. NetBackup binaries (such as the Remote Administration Console for Windows and a UNIX media server) that you install on the Agent host must match the version of the NetBackup master server.
EMC Networker	You need different OpsCenter Agents for EMC Networker servers with different versions. The OpsCenter Agent needs to be installed on the EMC Networker server host.
PureDisk	<p>PureDisk data collection does not require a separate Agent. You can use the Integrated Agent of the OpsCenter Server for data collection. To create or configure the data collector, select the Agent that is installed as the Integrated Agent.</p> <p>Note: You do not require an OpsCenterAgent to collect data from PureDisk. If you installed the VBR Agent only to collect PureDisk data, manually uninstall the VBR Agent.</p>
Backup Exec	<p>You can use the same Agent to collect data from Backup Exec servers with different versions.</p> <p>Note: To collect data from a Backup Exec server host, you need to install the Agent on a compatible Windows host.</p>
IBM TSM	You can use the same OpsCenter Agent to collect data from TSM servers with different versions.
Enterprise Vault	<p>You can use the same OpsCenter Agent to collect Enterprise Vault data from Microsoft SQL Servers with different versions.</p> <p>Note: To collect Enterprise Vault archive data, you must install the OpsCenter Agent on a Windows host.</p>

Where should I install the Agent?

Installing the OpsCenter Agent has a little affect on the backup environment. The OpsCenter Agent must be compatible with the Operating System of the backup application host. To monitor Enterprise Vault or Backup Exec, you need to install the Agent on a Windows host as these products support only Windows platform.

Agents can be installed on either Windows or Solaris platforms if you want to monitor NetBackup, Tivoli Storage Manager or EMC Networker.

You can deploy the OpsCenter Agent on any of the following: hosts:

Product host

The Product host is the host where the backup or archiving product is installed. For example, a product host can be a NetBackup master server, a Backup Exec host, an Enterprise Vault host etc.

Note: To collect data from EMC Networker, you must install the OpsCenter Agent on the product host only.

Advantages of installing OpsCenter Agent on a product host are the following:

- Ease of maintenance for upgrades, because you only service one host.
- Minimal intrusion on backup hosts, because only one agent is installed on a backup host.

Disadvantages of installing OpsCenter Agent on the product host are the following:

- The Agent may use significant system resources, which can affect the product host's performance.

OpsCenter Server host or a separate host

The OpsCenter Agent can be installed on a host different from the product host; this is sometimes called a Remote Agent. The different host may be the OpsCenter Server host or a separate host.

You should deploy a Remote Agent in the following situations:

- When the OpsCenter Agent is not compatible with the operating system of the product (such as HP-UX).
- When the product host system has insufficient resources to support co-location of the OpsCenter Agent and the backup application.

In such situations, the Agent should remotely communicate with backup products.

Note: EMC Networker does not support Remote Agent.

Advantages of installing OpsCenter Agent on the Server host or a separate host are the following:

- You do not have to install additional software on backup application hosts, because the backup data is gathered remotely.
- If you install Agent on the OpsCenter Server host, you need to maintain only one host for both the OpsCenter Agent and the Server, which avoids the maintenance that might otherwise be involved in upgrading the Agent.

Disadvantages of installing OpsCenter Agent on the Server host include the following:

- You must install a component of the backup application on the OpsCenter Server host.
For example, assume that you need separate OpsCenter Agents to collect data from different versions of NetBackup master servers. You need to install NetBackup binaries (the Remote

Administration Console for Windows, the master server, or the media server) on the Agent host that match the version of the NetBackup master server.

- In some situations, a backup application license key is required for the component that is installed on the OpsCenter Server host.

Note the following points about installing an OpsCenter Agent:

- Only one OpsCenter Agent can be installed on any host.
- A single Agent can be configured for multiple data collectors which collect data from the respective product hosts.
- Agent for NetBackup needs binaries of either RAC (Remote Admin Console) or master/media server, installed local to the Agent. The version of RAC or master/media server binaries installed on the Agent host should match the version of the NetBackup master server it intends to monitor.
- If you want to collect data from EMC Networker host, you must install an Agent locally on the EMC Networker host.

About the Agent deployment matrix

[Table 4-1](#) compiles Agent-related information for each backup product. This can help you in deploying the OpsCenter Agent.

Table 4-1 Agent deployment matrix

Product	Is an Agent Required?	Can a single Agent monitor multiple product versions?	Should Agent be deployed on the product host?	Can Agent be installed on any platform?
NetBackup 7.1	Required only for capacity licensing	Multiple Agents	Anywhere	Solaris, Windows
NetBackup 7.0.x	Required for breakup jobs and capacity licensing	Multiple Agents	Anywhere	Solaris, Windows

Table 4-1 Agent deployment matrix (*continued*)

Product	Is an Agent Required?	Can a single Agent monitor multiple product versions?	Should Agent be deployed on the product host?	Can Agent be installed on any platform?
NetBackup 6.5.x	Required only for image, error log, scheduled jobs, capacity licensing, or breakup jobs.	Multiple Agents	Anywhere	Solaris, Windows
NetBackup 6.0.x	Required only for image, capacity licensing, or error logs.	Multiple Agents	Anywhere	Solaris, Windows
PureDisk	Not Required	None	None	Solaris, Windows
Backup Exec	Required	Single Agent	Anywhere	Windows only
Enterprise Vault	Required	Single Agent	Anywhere	Windows only
IBM Tivoli Storage Manager	Required	Single Agent	Anywhere	Solaris, Windows
EMC Networker	Required	Multiple Agents	On the product host	Solaris, Windows

Examples of OpsCenter Agent deployment in a NetBackup environment

In a NetBackup environment, the following OpsCenter deployment scenarios are valid:

- You install the OpsCenter Server on OpsCenterHost1, install the Agent on AgentHost1, and install a NetBackup 7.1 master server on ProdHost1. Install the NetBackup 7.1 Remote Administration Console or NetBackup master server on AgentHost1 and configure a data collector to collect data from ProdHost1.

- You install the OpsCenter Server and Agent on OpsCenterHost1 and install the NetBackup 7.0 master server on ProdHost1.
Install the NetBackup 7.0 Remote Administration Console or the NetBackup master server on OpsCenterHost1 and configure a data collector to collect data from ProdHost1.
- You install the OpsCenter Server on OpsCenterHost1, and you install the NetBackup master server and the OpsCenter Agent on ProdHost1
Configure a data collector on OpsCenterHost1 to collect data from ProdHost1.
- You install the OpsCenter Server and Agent on OpsCenterHost1, the NetBackup 6.5 master server is installed on ProdHost1, and you install another NetBackup 6.5 master server on ProdHost2.
Install either the Remote Administration Console or master server on OpsCenterHost1 and configure two data collectors: one to collect data from ProdHost1 and another to collect data from ProdHost2.
- You install the OpsCenter Server on OpsCenterHost1. You install Agent A1 on AgentHost1, install Agent A2 on AgentHost2, and install Agent3 on AgentHost3. A NetBackup 7.0 master server exists on ProdHost1 and you install a NetBackup 6.5 master server on ProdHost2. Install NetBackup 6.0 MP7 on ProdHost3 and ProdHost4.
Install a NetBackup 7.0 Remote Admin Console or 7.0 master server on AgentHost1 and configure a data collector to collect data from ProdHost1. Install a NetBackup 6.5 Remote Administration Console or 6.5 master server on the AgentHost2 and configure a data collector to collect data from ProdHost2. Install a NetBackup 6.0 MP7 Remote Admin Console or 6.0 MP7 on AgentHost3 and configure a data collector from ProdHost3 and ProdHost4.
- You install the OpsCenter Server on OpsCenterHost1. You install Agent A1 on AgentHost1, install Agent A2 on AgentHost2, and install agent A3 on AgentHost3. A NetBackup 7.0 master server exists on ProdHost1 and you install a NetBackup 6.5 master server on ProdHost2. NetBackup 6.0 MP7 master servers exist on ProdHost3 and ProdHost4.
Install a NetBackup 7.0 Remote Admin Console or 7.0 master server on AgentHost1 and configure a data collector to collect data from ProdHost1. Install a NetBackup 6.5 Remote Administration Console or 6.5 master server on the AgentHost2 and configure a data collector to collect data from ProdHost2. Install either the Remote Administration Console or master server on AgentHost3 and configure two data collectors: one to collect data from ProdHost3 and another to collect data from ProdHost4.

About NetBackup for VMware

The following operational notes pertain to NetBackup's VMware feature:

- Please note the following limitations regarding VCB and VMware Converter Standalone:
 - VMware Converter Standalone 4.0.1 is the last revision to support VCB.
 - For a virtual machine that was backed up with VCB, VMware Converter Standalone cannot restore the VM to a vCenter server that contains vApps. To use Converter Standalone, you must restore the virtual machine directly to an ESX or ESXi server. For more information, refer to the following VMware knowledge base article:

<http://kb.vmware.com/selfservice/microsites/search.do?language=enUS&cmd=displayKC&externalid=1034316>

Note: NetBackup support for VCB will be discontinued in a future release.

- Starting with NetBackup 7.0 EEB 2152331, NetBackup speeds up restores of virtual machines over the SAN by converting a thin-provisioned virtual machine to thick provisioned. It uses the VMware eager zeroed feature to reduce communication overhead with the vCenter server. If you do not want NetBackup to automatically convert every restored virtual machine to thick provisioning, you can override that setting with the following registry change.

To prevent automatic conversion of a restored VMware virtual machine to thick provisioning:

- On the Windows desktop of the backup host, click **Start > Run** and enter **regedit**.
- To be on the safe side, make a backup of the current registry (File > Export).
- Go to `HKEY_LOCAL_MACHINE > SOFTWARE > Veritas > NetBackup > CurrentVersion > Config` and create a key called `BACKUP` (if the key does not already exist).
- Create a new `DWORD` under `BACKUP`, called `NoEagerlyScrub`.

This registry key causes NetBackup to retain the original provisioning when the virtual machine is restored.

Note: If the restore is performed over a SAN, the restore may take more time as a result of this change.

- If a virtual machine had an ISO file mounted on a CD when the virtual machine was backed up, the ISO file must be available on the target ESX server when you restore the VM. If the ISO file is not available on the ESX server, the restore fails.

A fix for this problem was issued in NetBackup EEB 2221887 and in later EEB bundles. You can now configure NetBackup to omit the ISO file when the VM is restored:

- On the Windows desktop of the backup host, click **Start > Run** and enter **regedit**.
- To be on the safe side, make a backup of the current registry (File > Export).
- Go to `HKEY_LOCAL_MACHINE > SOFTWARE > Veritas > NetBackup > CurrentVersion > Config` and create a key called `BACKUP` (if the key does not already exist).
- Create a new `DWORD` under `BACKUP`, called `IgnoreAttachedDevices`.

This registry key allows NetBackup to restore the virtual machine without attempting to restore an ISO file that was mounted when the virtual machine was backed up.

Note: If the virtual machine was backed up with VCB, you can use the **Remove backing information...** Option on the **NetBackup Restore Marked Files** dialog. You do not have to create a registry key.

- vStorage backups of VMware virtual machines in ESX 4.0 or earlier may fail due to a timeout issue with VMware Tools. The `bpfi` log may contain messages similar to the following:

```
16:25:01.616 [3236.1656] <2> onlfi_vfms_logf: INF - vmwareLogger:
CreateContainerView: CreateFilter OK
16:25:01.616 [3236.1656] <2> onlfi_vfms_logf: INF - vmwareLogger:
WaitForFilterUpdates: timeout=2 secs
16:25:03.629 [3236.1656] <2> onlfi_vfms_logf: INF - vmwareLogger:
WaitForFilterUpdates: No Updates received
...
16:25:03.629 [3236.1656] <2> onlfi_vfms_logf: INF - vmwareLogger:
CheckConnection: SSL connection NULL
16:25:03.629 [3236.1656] <2> onlfi_vfms_logf: INF - vmwareLogger:
CheckConnection: Invalid soap socket
16:25:03.675 [3236.1656] <2> onlfi_vfms_logf: INF - dovSphereDisconnect:
disconnect for 11-p-ch-w-vcs01 completed with flags 0 and status 0
```

```
16:25:03.675 [3236.1656] <2> onlfi_vfms_logf: INF - find_vm_by_displayname:  
vmcGetObjDetails failed with status 18
```

To correct this problem, make the following registry changes on the Windows server where **nbuVmwareTools** runs:

- Click **Start > Run** and enter **regedit**.
- To be on the safe side, make a backup of the current registry (File > Export).
- Go to `HKEY_LOCAL_MACHINE\SOFTWARE\Symantec\SymVmTools`.
- Create the following **DWORD** values:
 - SymVmToolsRefreshTimeout** (Set the value to 4000, and incrementally by 1000 if 4000 is not sufficient)
 - SymVmToolsDisableRefresh** (Set the value to 1.)
- Re-run the backup.
- In some cases, individual files that were restored from a backup of a VMware virtual machine do not contain all the original data. This restore problem is limited to the virtual machine backups that are made with the FlashBackup-Windows policy type.
This problem can occur in the following versions of NetBackup: 7.0, 7.0.1, 7.1, and 7.1.0.1.
To work around this issue, restore the entire virtual machine to an alternate location and manually copy the files from the restored virtual machine.

About the current release content index

This appendix includes the following topics:

- [About the NetBackup 7.1.0.1 master Etrack index list](#)

About the NetBackup 7.1.0.1 master Etrack index list

This section contains a master index for all fixes that this release contains. These fixes are sorted according to the containers that they are in.

About the current release content

This appendix includes the following topics:

- [About release content conventions](#)
- [About NetBackup 7.1.0.1 release content](#)
- [NetBackup 7.1.0.1 Emergency Engineering Binary \(EEB\) Listing](#)

About release content conventions

This topic contains the NetBackup 7.1.0.1 conventions and content that is applicable to this release.

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 7.1.0.1 release content

Etrack Incident: 2357588

- TITAN cases: 414-462-381
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
With NetBackup 7.1, if you set the THROTTLE_BANDWIDTH on your windows master server with any value, the NetBackup Job Manager (NBJM) would crash. The result was a status 50 error code on all jobs.
- Work around:
If you encounter this issue, do not configure any properties in the THROTTLE_BANDWIDTH.

Etrack Incident: 2323825

- Associated Primary Etrack: 2085582
- TITAN cases: 412-398-163 413-376-163
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
In newer Windows 2008 servers, hardware vendors have made use of `uEFI` partitions. This change caused System State Backups to end with a status 1 error in NetBackup.
To resolve this issue, a new switch was added to the following `w2koption` command:

```
w2koption -backup -efi_boot_enabled 1
```


This enabled NetBackup to successfully backup a `uEFI` partition.

Etrack Incident: 2330386

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A change was added to ensure that the drives are listed in the **Filter** selection.

Etrack Incident: 2332509 2366812

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
A fix was added to address intermittent `bpcd` connection failures on Windows.
- Work around:
For more information about this issue, see the following Technote on the Symantec Support Web site:
<http://www.symantec.com/docs/TECH154279>

Etrack Incident: 2336766

- Associated Primary Etrack: 2091735
- TITAN cases: 412-163-484 412-444-954
- Contained in: NBLU_7.1.0.1.UNIX NB_CLT_7.1.0.1
- Description:
A fix was made to address an issue that caused `bpbkar` to core dump. Running a FlashBackup backup with the **VxFS_Snapshot** snapshot method on HP-UX IA64 11.23 caused the issue.

Etrack Incident: 2330407

- Associated Primary Etrack: 2302641
- TITAN cases: 413-466-349
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A change was made to ensure that the agent communication alert is generated appropriately.

Etrack Incident: 2374129

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- ****Description:**
If you performed a duplication to a remote master server, the source copy cannot span disk volumes.
- Additional Notes:

In general, you should use only one disk volume in a disk pool if it is the source of a replication. The storage device may have different replication targets for different volumes.

Etrack Incident: 2330402

- Associated Primary Etrack: 1730578
- TITAN cases: 312-190-408
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
Data collection fixes were added for the TSM agent. The fixes that added support for SQL Backtrack jobs and corrected the ability to identify successful jobs.

Etrack Incident: 2323835

- Associated Primary Etrack: 2140816
- TITAN cases: 412-488-706
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
A change was made to address an issue that caused the following message to appear randomly when backing up files.

```
WIN32 13 The data is invalid
```

This issue did not seem to affect the files. Each time the files were copied from a SAN-attached drive to a directory on the local drive (C:), they were backed up successfully.

Etrack Incident: 2318457

- Associated Primary Etrack: 2195085
- TITAN cases: 413-103-601
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
A mapped, **FullVM** backup failed to define the drive letter on the three Windows 2000 VM guest computers. That caused a status 13 error. This issue generally occurred with a guest Windows VM that was upgraded from Windows NT to a later version of Windows. A change was added to address this issue.

Etrack Incident: 2330387

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
Clicking the **Edit** button under **Configuration - Settings - Tape Library** caused an unknown exception to occur.

Etrack Incident: 2330400

- Associated Primary Etrack: 2116530
- TITAN cases: 412-514-562
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
NetBackup OpsCenter would send alerts for (master server) services on a media server that is not running.

Etrack Incident: 2333580

- Associated Primary Etrack: 2293764
- TITAN cases: 414-024-076
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
A change was made to address an issue that caused `bptm` to core dump when you restored the images that were created before NetBackup 7.0. Upgrading from pre-NetBackup 7.0 versions to NetBackup 7.0.1 or 7.1 caused this issue. The problem also occurred if multiple media servers were running different NetBackup versions.

Etrack Incident: 2330415

- Associated Primary Etrack: 2230003
- TITAN cases: 413-379-510
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:

A change was made to ensure that the VxUL logging turns off when the configuration file was set to a zero.

Etrack Incident: 2364337

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
A change was made to address an issue that caused `nbs1` to core dump.

Etrack Incident: 2369367 2333006

- Associated Primary Etrack: 2217961
- TITAN cases: 413-194-002
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
Performing a Catalog Recovery from the second copy of an SLP-duplicated backup failed. A change was added to address this issue.

Etrack Incident: 2278597

- Associated Primary Etrack: 2279662
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
A change was made to address an issue that caused NetBackup 7.1 to stop processing storage lifecycle Policies in a high-image backlog. Refer to the following document on the Symantec Support Web site for more information:
<http://www.symantec.com/docs/TECH153976>

Etrack Incident: 2330411

- Associated Primary Etrack: 2304675
- TITAN cases: 600-681-762
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:

A fix was made ensure that the Image Copy information was updated correctly in the database.

Etrack Incident: 2329685

- Associated Primary Etrack: 1932799
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
 A change was made to address an issue that caused SLP to not mark an Image as complete. That occurred if no fragments were found for the source copy.

Etrack Incident: 2330398

- Associated Primary Etrack: 2131583
- TITAN cases: 412-574-912
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
 The **Viewbuilder's Locate in tree** menu option always returned **unassigned tree** message.

Etrack Incident: 2330406

- Associated Primary Etrack: 2290281
- TITAN cases: 413-850-636
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
 The **Media SubType** was set incorrectly for a Tape storage unit . This caused incorrect data to be displayed in the reports. A change was made to correct this issue.

Etrack Incident: 2323832

- Associated Primary Etrack: 2144387
- TITAN cases: 412-444-133 412-782-690 413-141-944 413-504-092
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86

- **Description:**

In Windows 2008 and 2008 R2, backups of **All_Local_Drives**, **System State**, and **Shadow Copy** occasionally failed with a status 156 on clusters. Microsoft made changes to back up all targets of service which resulted in this error.

A change was made to add a new switch to the `w2kOption`:

```
w2koption -backup -ignore_unresolved_paths drive_letter:
```

Where *drive_letter*: is the drive that is inaccessible but contains a part of System State.

Etrack Incident: 2332411

- Associated Primary Etrack: 2207639

- TITAN cases: 413-201-525 413-564-951 414-184-936 414-415-138

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1
NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
NB_CLT_7.1.0.1

- **Description:**

NBEMM may crash on a NetBackup clustered master server with a heavy load of backup jobs and a high number of media servers configured. A thread race condition caused this issue.

Etrack Incident: 2321322

- Associated Primary Etrack: 2304679

- TITAN cases: 414-050-629 414-086-864 414-105-766 600-675-666

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1
NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
NB_CLT_7.1.0.1

- **Description:**

A hot catalog backup failed with a status error 2 on Windows media servers.

The `bpdbm` log file contained the following entries:

```
00:11:05.513 [5232.5780] <2> get_long: (1) cannot read (byte 1) from network
```

Etrack Incident: 2330404

- Associated Primary Etrack: 2237550

- TITAN cases: 413-169-839

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1
NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64
NB_OPS_CTR_7.1.0.1.winnt.x86

- **Description:**

An attempt to include more than 50 error codes in the **All Failed Backup** report caused the following error.

```
An error occurred while a fetch operation ran the report output.
```

Etrack Incident: 2330873

- Associated Primary Etrack: 2260072

- TITAN cases: 413-587-150

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1

- **Description:**

A change was made to ensure that the connection between the client and the `bprd` process on a master does not timeout when using the `bparc` command with the `-w` option.

Etrack Incident: 2336768

- Associated Primary Etrack: 2204126

- TITAN cases: 413-170-214

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86

- **Description:**

The **Week At A Glance** reports were not presented properly or they were blank when it was added to "My Dashboard".

Etrack Incident: 2330584 2358878

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1

- ****Description:**

If you attempted to configure a single disk volume (OST storage server and LSU) with more than one NetBackup Master Server, and that disk volume is a replication target, there is a potential for the master servers to consume each other's images.

NOTE: If the master servers that share this disk volume both have the SLP name defined and that name is used for the Automatic Image Replication, you could experience a data loss. This change addresses this issue to ensure that you do not encounter a data loss.

- **Work around:**
To avoid this issue, never share a single disk volume between multiple master servers.

Etrack Incident: 2326390

- Associated Primary Etrack: 2241381
- TITAN cases: 413-389-844
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- ****Description:**
A change was made to ensure that you could restore virtual machines even if a virtual disk (vmdk) was larger than one Terabyte.

Etrack Incident: 2375434

- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- **Description:**
Using the **Intelligent policy possible values** button for the resource pool, caused `libpivmware` to crash.

Etrack Incident: 2329585

- Associated Primary Etrack: 2242465
- TITAN cases: 413-521-169
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_JAV_7.1.0.1 NB_JAV_7.1.0.1.winnt.IA64 NB_JAV_7.1.0.1.winnt.x64 NB_JAV_7.1.0.1.winnt.x86
- **Description:**
If you changed the password in the **Change virtual machine server** field in the NetBackup-Java administration console, the backward slash character "\", was removed from the account name. A change was added to address this issue.

Etrack Incident: 2327022

- Associated Primary Etrack: 2310939
- TITAN cases: 414-131-888
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- **Description:**

A change was made to address an issue that caused the `vxazd_debug.log` log file to grow exponentially after you enabled NBAC on a NetBackup 7.1 clustered master server and then opened the NetBackup Administration Console .

- Work around:

If you encounter this issue, set the debug level of the `adf` module (`adf_debug`) of AZ to the default of zero (0).

Etrack Incident: 2347792 2343530 2341660

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1

- Description:

If you use the **nirvanix_e** storage server type to configure Nirvanix with encryption, the storage server cannot be created. The encryption plug-in caused the `nbrmms` service to go down.

In addition, another issue existed that caused the restored data to differ from the backed up data when the `bptm SIZE_DATA_BUFFERS` is changed to a value that does not match the 16K encryption boundaries. An example of that would be if `SIZE_DATA_BUFFERS` were set to 130048 (127K).

Etrack Incident: 2347050

- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86

- Description:

A change was made to address an issue that caused the VM to not start after a Full VM restore.

Etrack Incident: 2320573

- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86

- **Description:

A change was made to address an issue that caused mount point resolution to fail on an RHEL6 VM with an IDE disk attached. This issue meant that users were not able to perform single-file restores (SFR) for the volumes whose mount points were incorrectly resolved. The change that was made fixes this issue and creates the proper mount points.

- Work around:

If you encounter this issue, use the UUID in the `fstab` entries.

Etrack Incident: 2330420

- Associated Primary Etrack: 2235314

- TITAN cases: 413-517-604
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A change was made to ensure that the **Custom** tabular report displays the hardware column as numerical.

Etrack Incident: 2330384

- Associated Primary Etrack: 2195494
- TITAN cases: 412-772-095
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
Changes were added to this release of NetBackup to address the following issues:
 - A Time Schedule with the following parameters never caused the report to be emailed or exported. The affected schedule pattern was **Daily, Every weekday**. Other parameters do not matter.
 - A server-side exception occurred whenever the weekly time schedule was changed to daily (every weekday), or the number of days selected were reduced in weekly time schedule. For example, create a time schedule on a weekly basis and select Monday and Tuesday. Now, update the time schedule and select only Monday. The report is not saved.
 - The yearly time schedule did not work properly.

Etrack Incident: 2337525

- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
Mount point resolution on RHEL6 VM that have IDE and SCSI disks attached failed and caused a data loss issue to occur. If one IDE disk was attached followed by SCSI disks, volume resolution of the `non-lvm` volumes that reside in SCSI disks failed. A single file restore cannot be performed from these volumes and lead to the data loss issue.
- Work around:
To resolve this issue, use `UUID` for all `non-lvm` volumes in `fstab` entries.

Etrack Incident: 2330413

- Associated Primary Etrack: 2297481
- TITAN cases: 413-536-205
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
The client version information would get updated incorrectly with NULL data if the client was not reachable.

Etrack Incident: 2318483

- Associated Primary Etrack: 2260757
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
The image metadata fragment for AIR images was written too late. That caused the image to have the wrong `vm_type` when the image is validated.

Etrack Incident: 2330421

- Associated Primary Etrack: 2229203
- TITAN cases: 412-802-372
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A change was made to ensure that **Drive Utilization** for restores displays the appropriate data.

Etrack Incident: 2328141

- Associated Primary Etrack: 2324501
- TITAN cases: 414-203-357
- Contained in: NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A change was made to address an issue that caused the OpsCenter Agent service to occasionally crash and cause the data collection to fail for some of the BE servers.

Etrack Incident: 2323834

- Associated Primary Etrack: 2118074
- TITAN cases: 412-571-306 413-238-895
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
The `bpbkar32.exe` executable produced an Application Fault during `dfsr` backups on Windows 2008 and 2008R2 systems. Full backups worked and took about 30 minutes to complete, however, Incremental backups failed intermittently. The Incremental backups did write some data before they failed with a status 13 error.
A change was made to ensure that the `bpbkar32.exe` executable was fixed and no longer caused the status 13 error.

Etrack Incident: 2357326

- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
A change was made to ensure that you could perform a restore to a Clustered ESX server.

Etrack Incident: 2273462

- Contained in: NBLU_7.1.0.1.UNIX NB_7.1.0.1 NB_CLT_7.1.0.1
- Description:
The `bp.start_all` script attempted to start a couple of daemons that are master server only on a media server. This action showed some failure messages that should not have occurred.

Etrack Incident: 2314618

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
This release contains fixes to address the following issues:
 - A memory leak with `vnet_fqdn()` (refer also to ET2291609).
 - Problems that were identified with `LIMIT_BANDWIDTH` (refer also to ET2273461).
 - Memory leak fixes for the host cache (refer also to ET2294837).

Etrack Incident: 2363578

- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
A change was made to address an issue that caused `bbkcar.exe` to core dump when an attempt was made to restore a folder from an MS-Windows NAS data mover (NDMP) snapshot backup copy.

Etrack Incident: 2330394

- TITAN cases: 413-301-662
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
The `runStoredQuery.bat` exports report to the temp location on the server and not in the location mentioned under **Settings - Configuration - Report Export Location** tab.

Etrack Incident: 2318478

- Associated Primary Etrack: 2281383
- TITAN cases: 600-671-484
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
In some rare cases a portion of a virtual machine is cataloged as having a zero-byte count. That occurred because the actual file is small. In those cases a restore of the virtual machines could fail with a Status 5.
A change was added to prevent the above case from happening.
- Additional Notes:
If you encounter an issue when attempting to restore virtual machines, please contact Technical Support for assistance.

Etrack Incident: 2330392

- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A fix was added to address a server-side exception that occurred while clicking **Manage - Devices - Robot**

Etrack Incident: 2330403

- Associated Primary Etrack: 2290432
- TITAN cases: 414-013-773
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
A change was made to address an issue that caused the `nom_robotCap` view to not work.

Etrack Incident: 2330399

- Associated Primary Etrack: 2254196
- TITAN cases: 413-679-610
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
The View Builder produced a server exception when adding additional objects to view, for example, copying a node from one tree to another.

Etrack Incident: 2330385

- Associated Primary Etrack: 2095378
- TITAN cases: 412-489-876
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:
Data Collection from NetBackup 6.5.x master for Devices would never complete. In addition, it would prevent other data collections from starting.

Etrack Incident: 2330390

- Associated Primary Etrack: 2189560
- TITAN cases: 412-555-864
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_OPS_CTR_7.1.0.1 NB_OPS_CTR_7.1.0.1.winnt.IA64 NB_OPS_CTR_7.1.0.1.winnt.x64 NB_OPS_CTR_7.1.0.1.winnt.x86
- Description:

The **Policy & Schedule** collector would fail when an attempt was made to connect to a master server.

Etrack Incident: 2318473 2319681 2318469 2318501

- Associated Primary Etrack: 2221913
- TITAN cases: 413-351-096
- Contained in: NBLU_7.1.0.1.UNIX NBLU_7.1.0.1.WIN NB_7.1.0.1 NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86 NB_CLT_7.1.0.1
- Description:
 This fix addresses the following issues: - If CD-ROM had an ISO mounted, you could not restore it to another environment if the ISO did not exist. - The BLIB Incremental backups would fail if you added an independent disk to a virtual machine (VM) after full backup. - A change was added to restore performance when attempting to restore thick-provisioned disks. - A change was made to decrease the amount of time it took to gather the resource pool data.

Etrack Incident: 2323828

- Associated Primary Etrack: 2302966
- TITAN cases: 413-826-630
- Contained in: NBLU_7.1.0.1.WIN NB_7.1.0.1.winnt.IA64 NB_7.1.0.1.winnt.x64 NB_7.1.0.1.winnt.x86
- Description:
 A fix was added to address an issue that caused the following message and log file to be missing.
 (-528/-528 The current log file is missing)

NetBackup 7.1.0.1 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 7.1.0.1 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 B-1 NetBackup 7.1.0.1 EEB Listing

Summary Issue	Etrack Number	Emergency Engineering Binary Description
S2105122	2299772	<p>This EEB is a 7.1 VMWare bundled EEB that includes changes for the following Etracks:</p> <ul style="list-style-type: none"> ■ 2318469 - If CDROM had an ISO mounted, we are unable to restore it to another environment. 2318473 - BLIB Incremental backups failed when an independent disk was added to VM after a full backup. 2318501 - Restored performance. 2318457 - A mapped Full VM backup on three Windows 2000 VM Guest failed to define the drive letter and failed with a Status 13. 2318478 - VCB restore at NetBackup 7.0.1 failed in <code>bprd</code> on several VMs. 2319681 - Resource pool data took too long to gather.
S2316919	2256525	<p>This is the <code>AGENT_WINDOWS</code> Bundle for NetBackup 7.1. This bundle encompasses the following Etracks:</p> <ul style="list-style-type: none"> ■ 2256536 - (System state backup of Windows Server 2008 (non-R2) failed with a status 1 as the system state backup is returning <code>FS_SKIP_OBJECT</code> when backing up ASR files.) This issue was caused by the implementation of uEFI boot partition. ■ 2258750 - The <code>bbkar32.exe</code> executable caused very High CPU Utilization on Windows 2008 hosts. ■ 2302739 - (The current log file was missing.) ■ 2149421 and 2015296 caused the backup of SCC to end with a status 156 error. ■ 2118052 - The <code>bbkar32.exe</code> executable produced an application fault during <code>dfsrm</code> backups on Windows 2008 and 2008R2 Core. ■ 2140765 - (WIN32 13 - The data is invalid.) ■ 2174275 - The <code>bbkar32.exe</code> executable caused the Virtual Disk service to stop improperly. ■ 2152911 - The Exclude List does not work since upgrading to NetBackup 7.0 or 7.0.1.

Table B-1 NetBackup 7.1.0.1 EEB Listing (*continued*)

Summary Issue	Etrack Number	Emergency Engineering Binary Description
S2296126	2274411	<p>71/Denali EEB Bundle 1. The bundle contains the following Etracks:</p> <ul style="list-style-type: none"> ■ 2274405 - Added OpsCenter installer updates. ■ 2095332 - Data Collection from 6.5.x NetBackup master for Devices never completed and also prevented other data collections from starting. ■ 2189429 - The Policy and Schedule collector failed when trying to connect to one master server. ■ 2170994 - OC reports invalid device information for invalid media server. ■ 2276132 - Exception occurred while clicking Manage > Devices > Robot. ■ 2276142 - Drives were not being listed in the Filter selection. ■ 2276146 - Resolved an unknown exception when the Edit button under Configuration > Settings > Tape Library was selected. ■ 2116442 - OpsCenter sent alerts for master server services on a media server that was not running.

Table B-1 NetBackup 7.1.0.1 EEB Listing (*continued*)

Summary Issue	Etrack Number	Emergency Engineering Binary Description
S2234149	2233961	

Table B-1 NetBackup 7.1.0.1 EEB Listing (*continued*)

Summary Issue	Etrack Number	Emergency Engineering Binary Description
		<p>darrius-pdde-7.0.1-cft-rocksolid EEB delivery</p> <p>If client-side deduplication is used, this EEB should be installed on the client and MSDP server. All servers that are MSDP storage pools or can write to a MSDP storage pool should also have this EEB installed.</p> <ul style="list-style-type: none"> ■ 2125388 - Content Router queue processing hangs. ■ 2133046 - MSDP to PureDisk duplication failed with <code>no more entries error</code>. ■ 2134092 - This is a bundled fix that addresses the following etracks: 2056505, 2122278, 2060486, 2064419, 2073172, 2084947, 2047655, 2103459. ■ 2149179 - Duplication jobs end with a Status 83. ■ 2158198 - <code>spoold</code> would not start. ■ 2158839 - Fixes for the Optimized Synthetics error 610 and VMDK deduplication ratio. ■ 2161303 - A large number of directories in <code>/var/tmp/</code> starting with <code>pdvfs</code> caused the hard limit to be reached on the filesystem. ■ 2163275 - Load a fingerprint cache from all fragments of the last full backup. ■ 2175705 - Network Address Translation breaks optimized duplications. ■ 2176416 - Enables perfile deduplication stats to be available. ■ 2183861 - Fix to address status 84 errors on vStorage backups. ■ 2188614 - Low deduplication rates on PDDO backups after upgrading from 6.5.1.2 to 6.6.1. ■ 2194243 - Duplication from MSDP to PureDisk still used [R]PDDO data selections and MB imports on destination side. ■ 2196681 - Optimized Duplications are failing with status 84. ■ 2210083 - <code>bptm</code> crashed at <code>pdvfs</code>. ■ 2210707 - Volume Cleanup on MSDP not able to keep up causing a back log of over 100k fragments to be deleted. ■ 2217383 - Fixed an error in plugin log. ■ 2218085 - Statue error 83 were received on NetBackup backup jobs while PureDisk is re-routing. ■ 2218137 - MSDP backups failed with status 84 errors. ■ 2219988 - Client-side deduplication failed with the a "Bad file descriptor" error. ■ 2222209 - <code>tlog</code> processing can retry for days and accumulate a huge <code>tlog</code> backlog. ■ 2222453 - The <code>tlog</code> delay file is not synchronized to disk, <code>fsync</code> or <code>_commit</code> was not called. ■ 2222786 - Client-side deduplication backups hang at the <code>begin writing</code>

Table B-1 NetBackup 7.1.0.1 EEB Listing (*continued*)

Summary Issue	Etrack Number	Emergency Engineering Binary Description
		<p>process.</p> <ul style="list-style-type: none"> ■ 2227064 - Restore is incomplete when restoring the synthetic backup image. ■ 2227604 - The scheduler should not exit because of database connection problems. ■ 2233961 - If client side deduplication is used, this EEB should be installed on the client and MSDP server. All servers that are MSDP storage pools or can write to a MSDP storage pool should also have this EEB installed. ■ 2240566 - Optimized deduplication from deduplication storage pool to PureDisk Deduplication Pool gives a media write error. ■ 2246884 - Byte order is incorrect when receiving MSG_B_DO_NEW at server side. ■ 2248351 - CRC mismatch in sorted the tlog file. ■ 2248352 - After CRQP was shut down, there were still several new tlog files arriving. ■ 2252878 - The process queue was not running to completion. ■ 2254913 - The bpdm would core dump in strcmp when the PureDisk plugin libstspipd.so does a compare_hosts with a NULL IP address. ■ 2259881 - Deduplication storage pool to PureDisk Deduplication Pool image duplication creates multiple agents on the Deduplication storage pool SPA. ■ 2260910 - Deduplication storage pool to PureDisk Deduplication Pool duplication has performance issues if both are configured on same media server. ■ 2275125 - Duplications complete successfully but the destination copy is incomplete with 6.6.0.3. ■ 2281196 - Queue processing stops working, the tlogs created with a mismatched filename versus internal tlogid. ■ 2290442 - Cannot restore previously optimized synthetic data. ■ 2315547 - Missing GetRemoteSPA type fails optimized duplication from MSDP to PureDisk Deduplication Pool if remote data selection ID is not 2.
S2105122	2105102	Requesting view base api for NetBackup 7.0.1

Table B-1 NetBackup 7.1.0.1 EEB Listing *(continued)*

Summary Issue	Etrack Number	Emergency Engineering Binary Description
S2206135	2206134	<p>AGENT_WINDOWS Bundle for 7.0.1 The bundle contains the following Etracks:</p> <ul style="list-style-type: none"> ■ 2085561 - "System state backup of Windows Server 2008 (non-R2) fails with status 1 as system state backup is returning FS_SKIP_OBJECT when backing up ASR files" issue caused by the implementation of uEFI boot partition. ■ 2125979 - Windows client exclude list not honored on shared drive of Microsoft Cluster following upgrade to 7.0 / 7.01 ■ 2153889 - Request for EEB with fix for both ET 2125979 and ET 2140536 ■ 2146659 - C: drive backups are extremely slow for Windows 2008 Cluster Server when VSS is enabled ■ 2149421 - ET 2015296 causes backup of SCC to end with Status 156 ■ 2174275 - bpbkar32.exe causes the Virtual Disk service to stop improperly.
S2138544	2122784	<p>NetBackup 7.0.1 EEB bundle submission. The bundle contains the following Etracks:</p> <p>2197018 2119891 2147977 2168030 2119066 2119864 2112463 2151183 2170089 2118441 2118439 2118444 2173499 2196926 2207649 2118436 2119708 2197019 2121312 2119060 2118740 2118641 2118766 2119068 2113015 2119052 2147365 2176493 2173222 2118161 2118157 2141105 2207633 2134328 2118149 2118152 2118160 2120881 2131582 2175465 2179138 2207335 2118155 2118163 2166839 2166827 2175470 2205490 2215230 2141116 2185598 2185477 2185479 2177908 2218261 2217310 2219429 2216188 2095332 2189429 2203767 2086173 2201832 2166294 2209006 2131550 2116442 2161230 2253017</p>

NetBackup 7.1.0.1 Emergency Engineering Binary (EEB) Listing