

# Symantec NetBackup™ Appliance Release Notes

Release 2.6.1.1

NetBackup 52xx and 5330



# Symantec NetBackup™ Appliance Release Notes

Documentation version: 2.6.1.1

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To access SORT, go to the following Web page:

<https://sort.symantec.com/netbackup>

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- **Hot fix and EEB Release Auditor**  
Use this tool to find out whether a release that you plan to install contains the hot fixes that you need.
- **Custom Reports**  
Use this tool to get recommendations for your system and Symantec enterprise products, tips for risk assessment, and product license tracking.

## Contacting Technical Support

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

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

- Product release level
- Hardware information
- Available memory, disk space, and NIC information
- Operating system
- Version and patch level
- Network topology
- Router, gateway, and IP address information
- Problem description:
  - Error messages and log files
  - Troubleshooting that was performed before contacting Symantec
  - Recent software configuration changes and network changes

## Licensing and registration

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[www.symantec.com/business/support/](http://www.symantec.com/business/support/)

## Customer service

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

## Support agreement resources

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

Asia-Pacific and Japan

[customercare\\_apj@symantec.com](mailto:customercare_apj@symantec.com)

Europe, Middle-East, and Africa

[semea@symantec.com](mailto:semea@symantec.com)

North America and Latin America

[supportsolutions@symantec.com](mailto:supportsolutions@symantec.com)

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# NetBackup Appliance

## 2.6.1.1 features, enhancements, and changes

This chapter includes the following topics:

- [NetBackup 5330 hardware features](#)
- [NetBackup 52xx hardware features](#)
- [About NetBackup Appliance 2.6.1.1 new features, enhancements, and changes](#)
- [NetBackup Appliance 2.6.1.1 new features, enhancements, and changes](#)

### NetBackup 5330 hardware features

The NetBackup 5330 has more storage capacity, more RAM, and more speed than any previous NetBackup Appliance. It also has greater I/O capacity through additional 10 Gb Ethernet ports in comparison with the other NetBackup appliances.

The NetBackup 5330 hardware includes the appliance and a Primary Storage Shelf. The appliance does not provide any storage, but the Primary Storage Shelf has a usable storage capacity of 114.6 TB. A 114.6-TB Expansion Storage Shelf is also available, for a total capacity of 229.2 TB.

The 5330 appliance also offers the following improvements over the 5230 appliance:

- Increased memory



The NetBackup 5330 has 384 GB of RAM, in comparison with a maximum of 128 GB in the 5230 appliance.

- **Increased speed**  
 The 5330 has 3.0-GHz 10-core processors, an improvement over the 2.0-GHz 6-core processors in the 5220.  
 The 5330 appliance also has external RAID controllers, which leads to three times the write speed and five times the read speed of the NetBackup 5230.
- **Additional hot-swappable components**  
 The 5330 external RAID controllers are hot-swappable so that a faulty controller can be replaced without interrupting your operations.
- **Multiple redundant data paths**  
 The NetBackup 5330 has redundant data paths for all critical storage. This means that it can withstand multiple component failures and still operate.
- **A more resilient storage architecture**  
 The redundant components of the NetBackup 5330 Appliance allow the appliance to remain productive, even when a hardware component fails. This feature minimizes the effect of a hardware failure on your operations until the faulty part can be replaced.

[Table 1-1](#) outlines the differences between the NetBackup 5330, 5230, and 5220 Appliances.

**Table 1-1** Comparison of NetBackup 5330, 5230, and 5220 Appliances

Parameter	NetBackup 5330	NetBackup 5230	NetBackup 5220
Cores	20	12	8
Cache	25 MB	15 MB	12 MB
RAID cache	24 GB	1 GB	512 MB
Speed	3.0 GHz	2.0 GHz	2.4 GHz
Turbo speed	3.6 GHz	2.5 GHz	2.66 GHz
QPI speed	8 GT/s	7.2 GT/s	5.86 GT/s
System memory (GB)	384 GB	128 GB	96 GB
Memory configuration (DIMMs)	16GB x 24	8GB x 16	8GB x 12

**Table 1-1** Comparison of NetBackup 5330, 5230, and 5220 Appliances  
*(continued)*

Parameter	NetBackup 5330	NetBackup 5230	NetBackup 5220
Typical power consumption with maximum external storage	2442 Watts (10.7 W per TB)	1500 Watts (9.5 W per TB)	1500 Watts (9.5 W per TB)
Data retention	One Li-ion battery backup unit to NVRAM per RAID controller (2 per system)	Two maintenance-free backup units (MFBU) with Flash and Supercapacitor	One Li-ion battery backup unit
PCI add-in card slots	6	6	5
On-board 10 Gb Ethernet ports	2	2	0
Additional 10 Gb Ethernet cards in PCI assembly	Up to 4 cards (8 ports)	Up to 1 card (2 ports)	Up to 1 card (2 ports)
Additional 1 Gb Ethernet cards in PCI assembly	No	No	Yes
SAS RAID card in PCI assembly	No	Yes	Yes
Dual redundant external-storage-based RAID controllers	Yes	No	No
External storage	One Primary Storage Shelf and one optional Expansion Storage Shelf	Up to 4 Symantec Storage Shelves	Up to 4 Symantec Storage Shelves

For more information about the hardware architecture of NetBackup Appliances, see the *NetBackup Appliance and Symantec Storage Shelf Product Description* documents.

## About the NetBackup 5330 appliance storage units

The NetBackup 5330 Appliance does not contain any internal storage and relies on the use of the following external storage units:

- **Primary Storage Shelf**  
This storage unit contains the RAID and is required for every 5330 appliance installation. The unit connects directly to the appliance with Fibre Channel (FC) cables. A NetBackup 5330 system supports one Primary Storage Shelf unit.
- **Expansion Storage Shelf**  
This storage unit is optional and is intended to increase the disk space of minimum configuration systems that contain only a Primary Storage Shelf. The unit connects directly to the Primary Storage Shelf with SAS cables. A NetBackup 5330 system supports one Expansion Storage Shelf unit.

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**Note:** The Primary Storage Shelf and the Expansion Storage Shelf are not compatible with NetBackup 52xx appliances. The Symantec Storage Shelf is not compatible with a NetBackup 5330 or with either of its associated storage shelves.

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When you begin the initial configuration of a NetBackup 5330 from the NetBackup Appliance Web Console, a **Storage Overview** page appears. This page shows the hardware configuration of your system and identifies the connectivity or the disk drive issues that may exist. Symantec recommends that you correct all identified issues before you proceed with the initial configuration.

When you perform the initial configuration from the NetBackup Appliance Shell Menu, you can manually run the `Test hardware` command to identify the connectivity or the disk drive issues that may exist.

For complete information, see the *Symantec NetBackup Initial Configuration Guide*.

## NetBackup 52xx hardware features

This release supports the 52xx hardware architectures for the appliance. These architectures run the same software so you can configure them in any of the following modes:

- An appliance master server
- An appliance master and media server
- An appliance media server only

All appliance architectures support the following features and functionalities:

- Dual processor, Quad Core, Intel-based systems.

- Each has a number of hot swap external drives.
- Fibre Channel connectivity that supports external tape drives.
- The base configuration supports a Gigabit Ethernet network.
- High-performance hardware RAID controller.
- The Intel X520 SR2 10 Gb Ethernet card is either standard on the systems or an option.
- Each uses NetBackup as their code base.
- Linux operating system (provided by Symantec).
- Each can run the latest version of NetBackup Appliance software.
- Each supports Media Server Deduplication Pool (MSDP) storage on master and media servers. MSDP offers up to the maximum available storage capacity on a 52xx appliance.

The NetBackup 5220 Appliance contains eight internal storage disk drives with a total formatted storage capacity of 4 TB.

The NetBackup 5230 Appliance contains eight internal storage disk drives that are available in 1-TB and 3-TB storage capacities. The 1-TB disks provide a total formatted storage capacity of 4 TB. The 3-TB disks provide a total formatted storage capacity of 14 TB.

The NetBackup 5220 and 5230 can be used with attached Symantec Storage Shelves for additional storage. A storage shelf can support either 2-TB or 3-TB disk drives, but all drives within a shelf must be the same capacity.

[Table 1-2](#) shows the available, formatted storage capacity of the NetBackup 5220 Appliance, with or without attached storage shelves.

**Table 1-2** NetBackup 5220 storage capacity options

Appliance storage drives (TB)	Appliance available storage capacity (TB)	Storage shelf drives (TB)	Storage shelf available storage capacity (TB)	Appliance and one storage shelf available storage capacity (TB)	Appliance and two storage shelves available storage capacity (TB)	Appliance and three storage shelves available storage capacity (TB)	Appliance and four storage shelves available storage capacity (TB)
1	4.55	2	24	28.55	52.55	*	*
1	4.55	3	36	40.55	76.55	112.55	148.55

\* If required, 2TB storage drives can be provided.

Table 1-3 shows the available, formatted storage capacity of the NetBackup 5230 Appliance, with or without attached storage shelves.

**Table 1-3** NetBackup 5230 storage capacity options

Appliance storage drives (TB)	Appliance available storage capacity (TB)	Storage shelf drives (TB)	Storage shelf available storage capacity (TB)	Appliance and one storage shelf available storage capacity (TB)	Appliance and two storage shelves available storage capacity (TB)	Appliance and three storage shelves available storage capacity (TB)	Appliance and four storage shelves available storage capacity (TB)
1	4.55	2	24	28.55	52.55	*	*
1	4.55	3	36	40.55	76.55	112.55	148.55
3	13.65	2	24	37.65	61.65	*	*
3	13.65	3	36	49.65	85.65	121.65	157.65

\* If required, 2TB storage drives can be provided.

Table 1-4 shows the software version level that is required to achieve your desired storage capacity.

**Table 1-4** NetBackup Appliance software dependencies for maximum storage

NetBackup Appliance software version	Maximum number of attached storage shelves	Maximum storage capacity (with attached storage shelves)	Maximum MSDP storage capacity
2.5 - 2.5.4	2	76 TB	64 TB
2.6.0.1	2	86 TB (with a 14-TB 5230 appliance)	86 TB*
2.6.0.2 and later	4	158 TB	158 TB*

\* For best performance, the MSDP partition should not be split between the appliance and the expansion storage. Symantec recommends that your MSDP partition reside on expansion storage to optimize performance.

For more information about the hardware architecture of NetBackup Appliances, see the *NetBackup Appliance and Symantec Storage Shelf Product Description* documents.

# About NetBackup Appliance 2.6.1.1 new features, enhancements, and changes

In addition to a number of new features, this release offers many enhancements to the issues and improvements from previous NetBackup Appliance releases. Information about the new features, enhancements, and changes in this release of NetBackup Appliance can be found in the following sections of this chapter.

When an appliance is released, the latest version of NetBackup is used as a basis on which the appliance code is built. That ensures that all applicable features, enhancements, and fixes that were released within NetBackup are included in the latest release of the appliance.

This release incorporates fixes to several known issues that existed with the NetBackup Appliance software. Many of these issues pertain to the customer-specific issues that have been documented in the form of Salesforce.com (SFDC) cases. Many of the fixes that are incorporated into this release are available as individual engineering binaries and engineering bundles (EEBs). These EEBs were created to address specific customer issues with a previous version of the NetBackup Appliance software. The engineering binaries and bundles that are included in this release are listed in the *Release content* appendix of this document.

NetBackup 7.6.1.1 is the version of NetBackup software that the NetBackup Appliance 2.6.1.1 release installs. Information about the new features, enhancements, and fixes found in NetBackup 7.6.1.1 can be found in the *NetBackup 7.6.1.1 Release Notes* document on the Symantec Support website:

<http://www.symantec.com/docs/DOC8012>

# NetBackup Appliance 2.6.1.1 new features, enhancements, and changes

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**Note:** Some of the functionality that was introduced in NetBackup Appliance 2.6.0.4 was not present in the NetBackup Appliance 2.6.1 release. That functionality has been restored in 2.6.1.1.

you use a 52xx appliance together with a 53xx appliance in the same environment, Symantec recommends that you upgrade both appliances to NetBackup Appliance . Doing so ensures the best compatibility and consistency in your appliance environment.

Check the *NetBackup Appliance 2.6.0.4 Release Notes* and the *NetBackup Appliance 2.6.1 Release Notes* for a full list of the features that are included in NetBackup Appliance 2.6.1.1. Both documents are available at the following link:

<http://www.symantec.com/docs/DOC2792>

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The following list describes the new features, enhancements, and changes in the NetBackup NetBackup Appliance 2.6.1.1 release:

- Starting with NetBackup Appliance 2.6.1.1, you can configure a NetBackup appliance to add, authorize, and authenticate NIS users and user groups. The authentication mechanism uses Kerberos and is currently available only from the NetBackup Appliance Shell Menu under `Main > Settings > Security > Authentication > Kerberos`.

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**Note:** Kerberos is required to configure NIS user authentication on a NetBackup appliance. Therefore, NIS configuration commands are located under `Main > Settings > Security > Authentication > Kerberos` in the NetBackup Appliance Shell Menu. Currently, NetBackup appliances only support Kerberos authentication for NIS users.

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- Simple Authentication and Security Layer (SASL) support has been integrated into Active Directory (AD) user authentication, resulting in better security compliance and faster overall performance.
- General enhancements have been made to LDAP user authentication to support more users and increase overall performance.
- An initial user name and group name are no longer required to configure LDAP authentication on an appliance.

- All email notifications that get generated by the appliance now use the same SMTP settings.  
See “[SMTP server settings for appliance notifications](#)” on page 16.
- For security reasons, the Apache Tomcat package on the appliance has been updated to version 7.0.57.
- The `ntp` package (Network Time Protocol or NTP) has been updated to version `ntp-4.2.4p8-1.29.32.1` to address the following issues:
  - CVE-2014-9293
  - CVE-2014-9294
  - CVE-2014-9295
  - CVE-2014-9297
  - CVE-2014-9298
- The `glibc` implementation that is included on the appliance operating system has been updated to address security vulnerability CVE-2015-0235, also known as the GHOST vulnerability.

## SMTP server settings for appliance notifications

Starting with NetBackup Appliance 2.6.1.1, all email notifications that get generated by the appliance use the same SMTP settings. These emails include hardware monitoring notifications and NetBackup job notifications. The configuration settings are located under **Settings > Notification > Alert Configuration** in the NetBackup Appliance Web Console or `Main_Menu > Settings > Alerts` in the NetBackup Appliance Shell Menu. These settings override any previous SMTP setup you may have previously used to send NetBackup job notifications.

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**Note:** If you had already configured the appliance SMTP settings before you upgraded to NetBackup Appliance 2.6.1.1, you may need to re-save the configuration in order for NetBackup to use it. In the NetBackup Appliance Web Console, go to **Settings > Notification > Alert Configuration** and click **Save**. Or in the NetBackup Appliance Shell Menu, go to `Main_Menu > Settings > Alerts` and resubmit the SMTP and `SenderID` settings.

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# NetBackup Appliance compatibility

This chapter includes the following topics:

- [About upgrade paths to the NetBackup Appliance 2.6.1 line of releases](#)
- [About software release types](#)
- [NetBackup Appliance release compatibility](#)
- [About NetBackup Appliance software upgrades](#)
- [About NetBackup Appliance third-party legal notices](#)

## About upgrade paths to the NetBackup Appliance 2.6.1 line of releases

Some of the functionality that was introduced in NetBackup Appliance 2.6.0.4 was not present in the NetBackup Appliance 2.6.1 release. That functionality has been restored for 2.6.1.1.

If you are running NetBackup Appliance 2.6.1, Symantec recommends that you upgrade to NetBackup Appliance 2.6.1.1 to ensure that you have the latest features and product fixes. Additionally, it is possible to upgrade from 2.6.0.x directly to 2.6.1.1.

## About software release types

Symantec maintains a policy by which NetBackup can deliver various levels of releases to accommodate customer needs. The following list defines the various

release types and the version number schemes that are associated with each type. The NetBackup Appliance products use these release types and number schemes.

- A major release is the first in a series of releases. This type of release contains many new features and enhancements.
- A minor release is a single-dot release that follows a major release; for example, 2.6. This release type contains many of the same requirements as a major release. It contains a smaller set of new features and enhancements.
- A software release update is a double-dot release; for example, 2.6.1. This release type contains a few new features and enhancements as well as many product fixes.
- A maintenance release update is a triple-dot release; for example, 2.6.0.2. This release type is primarily comprised of a number of fixes that are developed to address issues in major, minor, and software update releases. This release type may also include a small number of new features and enhancements.

## NetBackup Appliance release compatibility

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

When an appliance is released, the latest version of NetBackup is used as a basis on which the appliance code is built. That ensures that all applicable features, enhancements, and fixes that were released within NetBackup are included in the latest release of the appliance.

For information about NetBackup compatibility with the NetBackup appliances, see the following tech note on the Symantec Support website:

<http://www.symantec.com/docs/TECH136970>

Symantec NetBackup has always maintained that the master server within an environment must be at a version level that is equal to or greater than the version levels of the media servers and clients within that environment. Symantec recommends that you keep your entire NetBackup environment up-to-date with the latest maintenance (triple-dot) releases. However, NetBackup offers the flexibility of an environment where the clients and the media servers are running a different triple-dot release than the master server. For example, you can upgrade a media server or client to version 2.6.0.2 (7.6.0.2) in an environment where the master server is running version 2.6.0.1 (7.6.0.1).

Since the NetBackup catalog resides on the master server, the master server is considered to be the client for a catalog backup. If your NetBackup configuration includes a media server, it must use the same NetBackup version as the master

server to perform a catalog backup. See the *NetBackup Installation Guide* for information about mixed version support.

See “[About software release types](#)” on page 17.

[Table 2-1](#) shows the various compatibility schemes that are supported with the current NetBackup Appliance 2.6.1 product line. The numbers in parentheses reflect the base NetBackup version level that is applied to that particular version of NetBackup Appliance software.

**Table 2-1** NetBackup Appliance 2.6.1.1 release compatibility

NetBackup appliance master server version	NetBackup appliance media server version	NetBackup client version
<b>2.6.1.1 (7.6.1.1)</b>	<b>2.6.1.1 (7.6.1.1), 2.6.1 (7.6.1)</b>	7.6.1.1, 7.6.1, 7.6.0.x, 7.6, 7.5.0.x, 7.5, 7.1.0.x, 7.1
<b>2.6.1.1 (7.6.1.1)</b>	<b>2.6.0.x (7.6.0.x)</b>	7.6.0.x, 7.6, 7.5.0.x, 7.5, 7.1.0.x, 7.1
<b>2.6.1.1 (7.6.1.1)</b>	<b>2.5.x (7.5.0.x), 2.5 (7.5.0.2)</b>	7.5.0.x, 7.5, 7.1.0.x, 7.1
<b>2.6.1.1 (7.6.1.1)</b>	<b>2.0.x (7.1.0.x)</b>	7.1.0.x, 7.1
<b>2.6.1 (7.6.1)</b>	<b>2.6.1.1 (7.6.1.1), 2.6.1 (7.6.1)</b>	7.6.1.1, 7.6.1, 7.6.0.x, 7.6, 7.5.0.x, 7.5, 7.1.0.x, 7.1
<b>2.6.1 (7.6.1)</b>	<b>2.6.0.x (7.6.0.x)</b>	7.6.0.x, 7.6, 7.5.0.x, 7.5, 7.1.0.x, 7.1
<b>2.6.1 (7.6.1)</b>	<b>2.5.x (7.5.0.x), 2.5 (7.5.0.2)</b>	7.5.0.x, 7.5, 7.1.0.x, 7.1
<b>2.6.1 (7.6.1)</b>	<b>2.0.x (7.1.0.x)</b>	7.1.0.x, 7.1

All NetBackup 52xx appliances can be upgraded to NetBackup Appliance version 2.6.1.1.

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**Note:** If an appliance server is currently at a version earlier than 2.5, you cannot upgrade directly to NetBackup Appliance 2.6.1.1. You must first upgrade to version 2.5, and then upgrade to the 2.6 product line.

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## About NetBackup Appliance software upgrades

When a software update release is available, Symantec recommends that you install it to make sure that you have the latest product features and fixes.

When you upgrade appliance software, the update release may install an updated version of the operating system, NetBackup, and all appliance interfaces. All services are shut down automatically when the upgrade begins, and then restarted automatically after all updates have been applied.

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**Note:** If an appliance server is currently at a version earlier than 2.5, you cannot upgrade directly to NetBackup Appliance 2.6.1.1. You must first upgrade to version 2.5, and then upgrade to the 2.6 product line.

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Symantec recommends that you plan your appliance upgrades in advance to help minimize system down time.

The following describes how you should plan for and perform appliance software upgrades:

- Always schedule upgrades when system activity is at its lowest. Symantec recommends that you suspend all backup and restore operations before starting the upgrade.
- Before you begin a software update, Symantec recommends that you take certain precautions to avoid loss of connectivity. The computer that you use to configure the device should be set up so that it does not go to sleep, shut down, lose power, or otherwise lose its network connection. If you lose connectivity during the installation, the operation fails.
- An appliance master server must always be at an equal or a later version than any appliance media server that is used with it. The only exception to this rule is if Symantec provides a maintenance release to any major, minor, or software update release. A maintenance release version number is identified with four digits (2.x.x.x).
- When you upgrade your appliance, you must only use the software updates that are available for the appliance. An appliance software update is a complete package that consists of updates to the appliance, NetBackup, and the operating system components. Symantec does not support appliance upgrades for any of the individual components separately.
- Appliance master servers must always be upgraded before any appliance media servers are upgraded.
- During an upgrade from NetBackup Appliance 2.5.x to this version of the appliance software, the Media Server Deduplication Pool (MSDP) requires 13% free space to complete the conversion. If you do not have the necessary amount of free space, the upgrade fails.
- An upgrade from 2.5.x to the 2.6 product line takes approximately three hours to complete but can extend beyond that timeframe, depending on the

environment. During that time, the appliance can restart several times. This behavior is normal.

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**Note:** In certain scenarios, the upgrade time could be twice the amount of the actual estimated time. Make sure to account for such a case when you estimate your upgrade maintenance window.

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- Once the upgrade has started, you must let it run until it has completed.

---

**Note:** Symantec recommends that you do not attempt to cancel an upgrade. Otherwise, you may experience unexpected system behavior. For example, backups may fail immediately after a canceled upgrade while the services are restarted. Although this behavior is to be expected, other parts of the system may potentially have been affected.

---

## About NetBackup Appliance third-party legal notices

NetBackup Appliance products may contain third-party software for which Symantec is required to provide attribution. Some of the third-party programs are available under open source or free software licenses. The license agreement accompanying the software does not alter any rights or obligations you may have under those open source or free software licenses.

The proprietary notices and the licenses for these third-party programs are documented in the *Symantec NetBackup Appliance Third-party Legal Notices* document, which is available at the following website:

<http://www.symantec.com/about/profile/policies/eulas/>

# Operational notes

This chapter includes the following topics:

- [About operational notes for NetBackup Appliance 2.6.1.1](#)
- [New Operational Notes for NetBackup Appliance 2.6.1.1](#)
- [General NetBackup Appliance notes](#)
- [NetBackup Appliance user interface notes](#)
- [Installation and configuration notes](#)
- [Upgrade and rollback notes](#)
- [VMware notes](#)
- [Internationalization and localization notes](#)
- [About NetBackup support utilities](#)
- [About working with log files](#)

## About operational notes for NetBackup Appliance 2.6.1.1

This chapter contains the topics that explain important aspects of NetBackup Appliance 2.6.1.1 operations that may not be documented elsewhere in the documentation set. This document is posted on the Symantec Support website and may be updated after the GA release of NetBackup Appliance 2.6.1.1. Therefore, Symantec recommends that you refer to the following link to view the latest release information:

<http://www.symantec.com/docs/DOC8012>

Because NetBackup Appliance 2.6.1.1 installs NetBackup 7.6.1.1 software, the operational notes that apply to NetBackup 7.6.1.1 also apply to NetBackup Appliance 2.6.1.1. For more information on the operational notes for NetBackup, refer to the *Symantec NetBackup 7.6.1.1 Release Notes* on the Symantec Support website:

<http://www.symantec.com/docs/DOC7793>

## New Operational Notes for NetBackup Appliance 2.6.1.1

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**Note:** If you are familiar with the Operational Notes for the previous release, review this section to see only the newly documented content for this release. You should also check the *Release content* appendix of this document to see the issues that have been resolved for this release.

---

**Note:** The notes and the known issues that are documented in this section may also apply to previous releases.

---

The following list contains the notes and the known issues that are newly documented for this release:

- If you configure the `LifeCycle` parameter `MAX_TIME_TIL_FORCE_SMALL_DUPLICATION_JOB` for an invalid setting, the appliance responds with a **changed successfully** message. When you run the `LifeCycle > Show` command to view the new setting, the previous setting still appears. For this release, ignore the message and run the `Show` command whenever you change this parameter to verify the configuration. The default setting is 10 and it can only be changed to a higher value.
- To avoid the potential for data loss, do not attempt to perform a factory reset from both the NetBackup Appliance Web Console and the NetBackup Appliance Shell Menu at the same time. This action can cause the factory reset to fail and can potentially cause storage data loss.
- When you perform the NIS/Kerberos configuration from the NetBackup Appliance Shell Menu, the display automatically scrolls to the bottom and the screen appears blank. Scroll back up to view the configuration results.
- If the appliance is configured as a master server and you log in to the NetBackup Appliance Web Console to change the **Enable Fibre Transport for duplication and backups on a Deduplication Appliance** feature, changes cannot be saved by clicking **Save**. For this appliance release, you must change this feature setting

by logging into the NetBackup Appliance Shell Menu and use the `Settings > FibreTransport` view commands.

- On a NetBackup 5330 appliance, the **Monitor > Hardware > Storage Connections** page in the NetBackup Appliance Web Console can show incorrect information for Fibre Channel connections between the 5330 compute node and the Primary Storage Shelf. Even when the devices are connected correctly, the page can incorrectly show that the two devices are not connected. This problem does not affect backup functionality.
- In appliance version 2.6.1.1, you cannot uninstall the Data Domain plug-in from the NetBackup Appliance Shell Menu. The plug-in can be updated without uninstalling the current plug-in by running the installation of the newer plug-in.

## General NetBackup Appliance notes

The following list contains the notes and the known issues that relate to the general workings of the NetBackup Appliance:

- If you receive a **Warning** for the **PCI** hardware component through the NetBackup Appliance Web Console or the NetBackup Appliance Shell Menu, it may mean that the card in the PCI slot does not match a supported configuration for the appliance. Check the “Product overview” chapter of the *NetBackup Appliance Product Description* guides to see the supported configurations for the PCI slots.
- If the eth0 port is not configured on your appliance, checkpoint operations do not work from the NetBackup Appliance Web Console. The eth0 port is set as part of the appliance installation, so this issue only applies if you have un-configured it.  
If you encounter this issue, configure the eth0 port or use the NetBackup Appliance Shell Menu to create a checkpoint or roll back to a checkpoint.
- Symantec recommends that you do not use the Symantec Remote Management interface to create or delete IPMI users. Instead, use the `Support > IPMI User Add` and `Support > IPMI User Delete` commands in the NetBackup Appliance Shell Menu.
- If you have a NetBackup 5330 Appliance with an Expansion Storage Shelf, the following restrictions apply:
  - Moving an Expansion Storage Shelf from one 5330 appliance to another 5330 appliance is not supported.
  - Moving disk drives within an Expansion Storage Shelf is not supported.



- In certain circumstances, you may find that a NetBackup Appliance NFS share is not accessible. If this issue occurs, use the NetBackup Appliance Shell Menu to restart the NFS server. Use the following command: `Support > Service Restart nfsserver`.  
Once you have restarted the server, try again to access the NFS share.
- If you attempt to create appliance users from multiple sessions simultaneously, the user creation may fail. If this issue occurs, retry the user creation for any users that failed.
- A preferred path failure can occur when the LUN ownership fails over from one controller to another controller. In some cases, one controller can reset the other controller, which then causes a preferred path failure. When this failure happens, the **Storage Status** for appliance hardware monitoring displays as Not Optimal. This failure can persist for weeks at a time until cleared.  
If the failure is not cleared, all paths fail, and the affected controller is taken offline, resulting in loss of redundancy and performance degradation. If you encounter this issue, contact Symantec Support and have your representative reference TECH225558.
- Windows 7/8.1 clients cannot automatically access the appliance CIFS shares. To work around this issue, run the following command from a Windows command prompt on the client:  
`net use /user:admin \\appliance-name *, where appliance-name is the fully qualified domain name (FQDN) of the appliance.`  
Enter your appliance administrator password at the prompt.  
Once you have run this command, the client is able to access the CIFS shares.
- If you use a network protocol analyzer like ManageEngine or Wireshark and have SNMP configured on the appliance, the `TimeTicks` field on the appliance SNMP traps is incorrect.
- If you set the SCSP audit log retention and later restart the appliance, the audit log retention setting is not retained. You need to reset the audit log retention after an appliance restart.
- During an appliance restart, the operating system can hang at the final stages of the shutdown process. The following is the last message to display on the appliance console, which you can see through the IPMI sub-system:  

```
Please standby while rebooting the system....
```

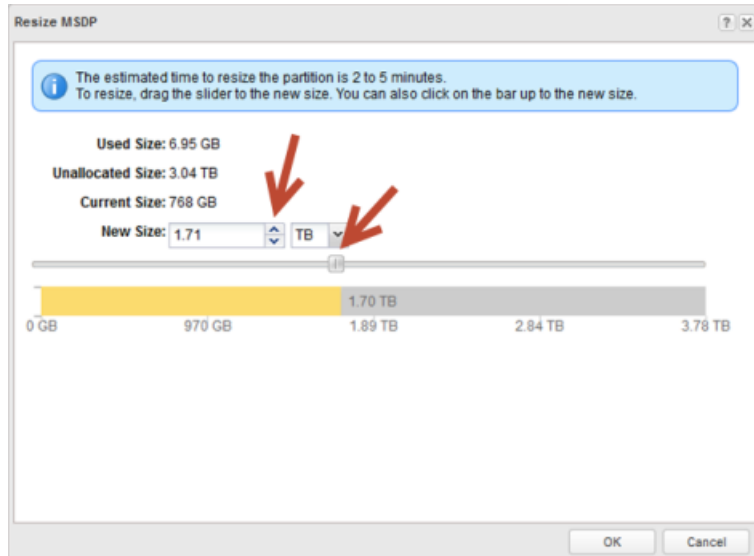
  
If this issue occurs, it is safe to power off the system and turn it back on to complete the restart.

- For this release of NetBackup Appliance, Replication Director (RD) restores do not support dynamic multi-pathing (DMP) when the appliance is used as a backup or a recovery host.
- During a RAID-controller-adapter learn cycle, you should receive two email alerts: one alert when the RAID policy changes from `WriteBack` mode to `WriteThrough` mode, and one alert when the RAID policy changes from `WriteThrough` mode back to `WriteBack` mode. However, in this release, if the BBU is in a failed state, only one email is sent. The second alert is not sent because the policy does not change back to `WriteBack` mode when the cycle is complete.
- If your appliance's Battery Backup Unit (BBU) is in a relearn state, an email alert should be sent to indicate the BBU status. In this release, however, the email alert is not sent.

## NetBackup Appliance user interface notes

The following list contains the notes and the known issues that relate to the NetBackup Appliance Web Console and the NetBackup Appliance Shell Menu:

- When the disk capacity on your appliance exceeds 90%, the **Hardware** icon on the home page of the NetBackup Appliance Web Console shows a hardware error even though the **Monitor > Hardware** page does not. You can disregard the error that displays on the home page.
- During the initial configuration of the appliance from the NetBackup Appliance Web Console, the storage configuration accepts a value of 4 GB or more for the AdvancedDisk partition. However, a 4-GB partition is not an accepted configuration. If you select 4 GB, the appliance setup fails. Set the AdvancedDisk partition size to at least 5 GB for a successful configuration.
- When you resize a storage partition from the NetBackup Appliance Web Console, you can use the up and down arrows or the horizontal slide bar to select the new size, as shown in the following image:



However, the size value may differ between the two methods. For the greatest accuracy, use the up and down arrows to select the new partition size.

- When you install a NetBackup client add-on package on the appliance, the **Version after upgrade** that displays on the NetBackup Appliance Web Console is incorrect. A client package installation does not affect the appliance software version. However, the web console displays the NetBackup version for the **Version after upgrade**.
- The `Settings > Alerts > Acknowledge Errors` command and the `Settings > Alerts > ClearAcknowledgedErrors` command accept invalid user inputs in some cases. After you use either of these commands, check your acknowledged errors with the `Settings > Alerts > ShowAcknowledgedErrors` command to make sure that nothing was updated in error.
- The **Monitor > SCSP Events** page on the NetBackup Appliance Web Console does not correctly record user sessions. The logins for the user sessions are logged on the page, but the logout information is not.
- The NetBackup Appliance Web Console cannot be accessed from an IPv6 address.
- During the rollback process after an unsuccessful software update, the NetBackup Appliance Web Console may temporarily display the following status: “The appliance is 2.6.1.1 and not in upgrade state.” In addition, the progress bar shows 100% completion. Please note that this behavior does not mean that the upgrade completed successfully.

The appliance restarts shortly after, but no status update or prompt displays on the web console. Wait for the restart to complete, and you can reconnect to the appliance. More information is available if you run the `UpgradeStatus` command in the NetBackup Appliance Shell Menu during the upgrade.

- The NetBackup Appliance Web Console views OpenLDAP and Active Directory user names as case sensitive, although the NetBackup Appliance Shell Menu does not.
- The `Main > Settings > Security > Authentication > LDAP > Certificate set path name` command in the NetBackup Appliance Shell Menu does not allow any certificate path names that contain dashes. Path names with dashes are allowed in the NetBackup Appliance Web Console.
- Multiple email addresses cannot be added for a point of contact from the **Settings > Notification > Registration** page of the NetBackup Appliance Web Console. However, you can add multiple email addresses for the point of contact from the NetBackup Appliance Shell Menu. To add multiple email addresses from the shell menu, run the `Settings > Alerts > CallHome Registration Email` command and enter multiple email addresses separated using a semicolon.
- For this release, the `Main > Monitor > NetBackup Jobs Failed` command in the NetBackup Appliance Shell Menu does not display information on some failed jobs. You can use the `Main > Monitor > NetBackup Jobs All` command to check for failed jobs by looking at the status column for each job.
- If your appliance is not provisioned, the following notification should appear on the NetBackup Appliance Web Console landing page:  
“Call Home service is not functional. Please contact Symantec support to verify if the system has been provisioned on Call Home server.”  
However, in certain cases, the notification does not appear. If the appliance date and time is not set per Network Time Protocol (NTP), the landing page only shows a notification to update the date and time. If you set the date and time per NTP, the Call Home notification appears.

## Installation and configuration notes

The following list contains the notes and the known issues that relate to the installation and configuration of the appliance:

- If your NetBackup 5330 Appliance includes a Primary Storage Shelf and an Expansion Storage Shelf, and the expansion shelf has configured RAID volumes on it, it should not be removed from the appliance setup. If the expansion shelf is removed, the primary shelf behaves as if the expansion shelf has lost power, and it produces errors. If you need to remove the expansion shelf, you need to

run the `Support > RAID Clear` command before you can remove the expansion shelf from the setup.

---

**Warning:** The `Support > RAID Clear` command deletes all of the data from both storage shelves. Make sure that you have saved the data elsewhere before you run the command.

---

- When you upgrade a NetBackup 5230 Appliance to NetBackup Appliance 2.6.1, the following error message appears during the self test:  
"The installed version of the BIOS version is not correct. Contact your administrator to update the BIOS firmware."  
You can safely disregard this message. Appliance operations are not affected.

- After a new installation of NetBackup Appliance 2.6.0.4 or an upgrade from 2.5.x, the `MaxRetryCount` for a failed transmission is set to 3, and the `MaxRetryCount` for a network error between the agent and the content router is set to 5. Symantec recommends that you change these values to 30 and 50, respectively, to comply with the NetBackup recommended settings. To change the values, log on to the appliance as a `NetBackupCLI` user and run the following commands:

- `pdcfg --write /disk/etc/puredisk/agent.cfg --section contentrouter --option MaxRetryCount --value 50`

- `pdcfg --write /disk/etc/puredisk/contentrouter.cfg --section ContentRouter --option MaxRetryCount --value 30`

If you upgrade your appliance from 2.6.0.x to 2.6.0.4, the `MaxRetryCount` values are already set to comply with the NetBackup recommended settings.

- If you install a new version of NetBackup Appliance on a previously used appliance, you may receive the following error message during the appliance configuration:

```
Cannot recover the existing MSDP partition because the NetBackup
disk pool and storage unit could not be determined. ...
- [Error] Could not configure the appliance.
```

This error occurs when a preexisting Media Server Deduplication Pool (MSDP) disk pool has a `+` in the disk pool name. If you encounter this issue, you need to change the disk pool name so that it does not include a `+` and manually configure the MSDP partition. Use the `Manage > Storage > Resize` command to configure the partition.

- A client-side deduplication operation may fail with a status error 83.

When you configure your appliance, if DNS is used, you must make sure that the network names of all appliances and the master server are DNS-resolvable (fully qualified host name (FQHN) and short name). If DNS is not used, you must make sure that you enter the proper host entries for the appliance that you configure.

If you configure your appliance without DNS set and the `/etc/hosts` file does not contain an IP address that resolves to the FQHN mappings, you may receive a status error 83. If the value configured in the `required_interface` variable for the appliance media server is a short name and not a fully qualified host name, the client may not resolve correctly.

To work around this issue, ensure that the DNS and the `/etc/hosts` file exist, and both have the host names that are resolvable.

For more information about this error condition, see the following tech note on the Symantec Support website:

<http://www.symantec.com/docs/TECH179320>

- When you attempt to copy a software update to the share directory, do not initiate any other commands until the copy finishes. If you run a command during the copy process, you may see that the software update is listed and available. However, if you install that software update, it can fail.  
To avoid this situation, do not run any other commands until the copy process completes.
- If you receive an email stating “No license exists” during the initial configuration of a media server, you can safely disregard the email. The email is sent during host name configuration. The license key file is renamed when it is modified with the new host name, and the alert mechanism cannot locate the license temporarily. When the configuration completes, the license is set correctly. You can check the license key on the **Manage > License** page of the NetBackup Appliance Web Console or with the `Main > Manage > License > List` command in the NetBackup Appliance Shell Menu.

## Upgrade and rollback notes

The following list contains the notes and the known issues that relate to upgrades and rollbacks:

- If you use the NetBackup Appliance Web Console to roll back to a checkpoint, some operations may not roll back correctly. To avoid this issue, use the NetBackup Appliance Shell Menu to roll back to a checkpoint.
- If an appliance server is currently at a version earlier than 2.5, you cannot upgrade directly to NetBackup Appliance 2.6.1.1. You must first upgrade to version 2.5, and then upgrade to the 2.6 product line.

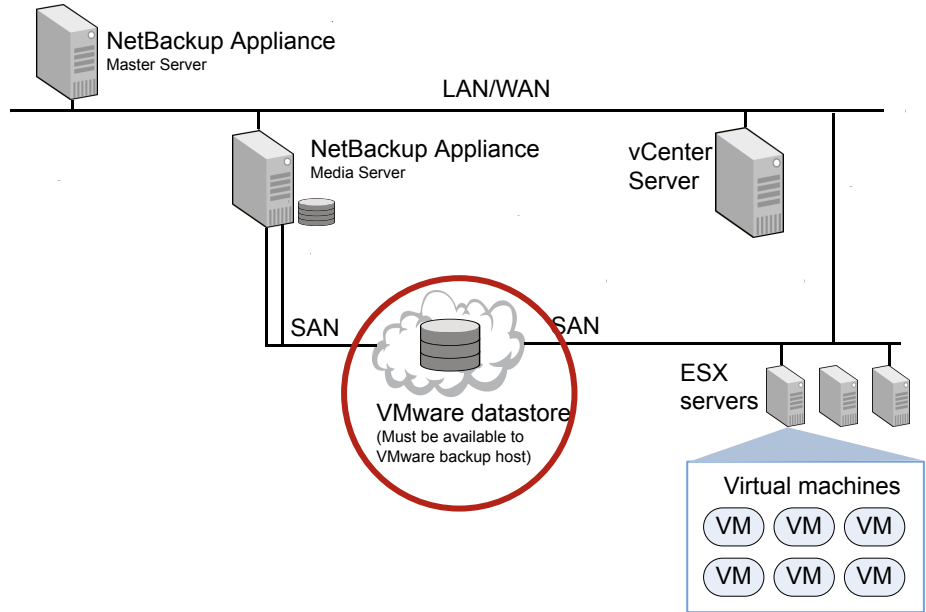
- If the current version of your appliance is 2.5 and you want to upgrade to this version of the appliance software, you must use the NetBackup Appliance Shell Menu to install the software update. You can use the NetBackup Appliance Web Console to download a software update. However, you cannot use the web console to install the upgrade. You must use the shell menu to install a software update.
- During an upgrade from NetBackup Appliance 2.5.x to this version of the appliance software, the Media Server Deduplication Pool (MSDP) requires 13% free space to complete the conversion. If you do not have the necessary amount of free space, the upgrade fails.
- For this release of NetBackup Appliance, the ability to perform a remote upgrade from a master server appliance to a media server appliance is not supported. To upgrade media server appliances to this version of the appliance software, log in to each media server appliance as "admin" and follow the upgrade procedure.
- After an upgrade from 2.5.x completes successfully or is rolled back successfully, the system drive rebuild begins automatically. This process typically takes around three or four hours but can take longer depending on the system load. Do not attempt to remove any drives during this time.  
If the rebuild process takes significantly longer than expected based on your system load, you may have a bad drive. Contact Symantec Technical Support for assistance.
- If you upgrade an unconfigured 2.5.x appliance to this version of NetBackup Appliance, the upgrade performs a reimage of the appliance rather than an upgrade. During a reimage of an unconfigured appliance, all configuration settings, such as host name and IP addresses are lost, and the storage is reset.
- When you upgrade an unconfigured appliance from 2.5.x to this version of NetBackup Appliance, the appliance has a factory-install checkpoint. Configured appliances that have been upgraded from 2.5.x only have a post-upgrade checkpoint.

## VMware notes

The following list contains the notes and the known issues that relate to VMware:

- If you have a NetBackup 5330 Appliance with an attached VMware datastore that is a non-Symantec external NetApp E-series storage device, make sure that the access LUN of the external storage is not exposed to the 5330 appliance. If the access LUN is exposed to the 5330 appliance, some functionality like appliance hardware monitoring and scanning for storage devices does not work properly.

The following diagram shows the type of environment that this issue affects:



- Concurrent VM restores may fail if you use the appliance as the restore host on a SAN. If you use the SAN transport mode to restore multiple VMs at the same time, the job status log may contain messages similar to the following:

```
4/19/2012 1:16:14 PM - Error bptm(pid=30649) cannot write
data to socket, Connection reset by peer
4/19/2012 1:16:14 PM - Info bptm(pid=30648) EXITING with status 24
```

Symantec has opened a VMware support request on this issue: 12172237605.

- Try the following:
  - On the **Virtual Machines Options** dialog, for the format of the restored virtual disks, select **Thin Provisioning** and retry the restore.
- If that fails, select **NBD** as the transport mode on the **Recovery Options** dialog and try the restore again.

## Internationalization and localization notes

The following list contains the notes and the known issues that relate to internationalization and localization:



- The NetBackup Appliance Shell Menu user interface cannot input or modify multi-byte characters, and they are not localized to any language for this release.
- Non-English characters are not shown on the NetBackup Appliance Shell Menu user interface after you finish appliance configuration.  
This issue occurs when you use the NetBackup Appliance Web Console during the initial configuration of a NetBackup appliance. When you input non-English characters to register your appliance on the **Registration** page, the non-English characters cannot be shown on the shell menu interface.
- If you install the NetBackup-Java Administration Console on a non-English Windows system to administrate the NetBackup server inside a NetBackup appliance, the console can hang when you attempt to log in to the NetBackup server. To avoid this issue, use the following workaround:
  - Modify the `install_path\Java\setconf.bat` file on the Windows system where the NetBackup-Java Administration Console is installed and set the `NBJAVA_FILE_ENCODING` parameter with the proper encoding. Use the same encoding as you previously set on the appliance system with the `SystemLocale` command.  
To determine the coding name, refer to the **Canonical Name for java.nio API and java.lang API** column in the *Supported Encodings* document on the following website:  
[Oracle Supported Encodings Documentation](#)  
For example, if you set a UTF-8 locale like `zh_CN.utf8` or `ja_JP.utf8` on your appliance system, the canonical name for java.nio API and java.lang API is UTF8.  
Uncomment the `SET NBJAVA_FILE_ENCODING` parameter in the `install_path\Java\setconf.bat` file, and specify UTF8 (in this example) as follows:  

```
REM SET NBJAVA_FILE_ENCODING=
```

becomes:  

```
SET NBJAVA_FILD_ENCODING=UTF8
```

For more information on the `SystemLocale` command, see the *Symantec NetBackup Appliance Command Reference Guide* or the "About the NetBackup Appliance Web Console login page" section in the *Symantec NetBackup Appliance Administrator's Guide*.

## About NetBackup support utilities

The NetBackup Appliance provides the following support utilities to help diagnose NetBackup problems:

- [NetBackup Domain Network Analyzer \(NBDNA\)](#)
- [NetBackup Support Utility \(nbsu\)](#)

## NetBackup Domain Network Analyzer (NBDNA)

You can run the NBDNA utility on a NetBackup primary or secondary appliance to perform the following tasks:

- Identifying the NetBackup domain configuration to resolve network-related issues
- Identifying the NetBackup performance issues
- Ensuring the behavior with regards to the host name lookup is functional
- Ensuring that the connectivity between NetBackup hosts and the appliance is established and functional based on their role within the NetBackup domain
- Generating the reports that are meant for Symantec Technical Support.

The NBDNA utility provides the following types of information in its output:

```
Running audit as Media Server.

Collection Version: x.x
  Collection Time: Tuesday, October 7, 2010 at 19:17:11 PM
    NBU Release: NetBackup-SuSE2.6.16 7.0.1.5
      NBU Version: 7.0.1.5
NBU Major Version: 7.0
NBU Minor Version: 1
  NBU Patch Type: GA
  NBU GlobDB Host: "host name"
    Is GlobDB HOST? No
      UNAME:
        Hostname: sample.name.symantec.com
  Host's Platform: Linux
  Perl Architecture: Linux

Initialization completed in 14.040101 seconds.
```

Brief Description of What It Does (for type 1):

- ```
-----
```
- 1) Perform basic self checks.
  - 2) Check connectivity to Master (and EMM) server.
  - 3) If SSO configured, get list of media servers sharing devices.
  - 4) Get list of all clients which could send data here for backup.

- 5) Test NBU ports for basic connectivity between media servers sharing devices.
  - 6) Test NBU ports for basic connectivity between media server and clients it backs up.
  - 7) Perform service level tests for phase 2
  - 8) Capture data for reports; save reports.
  - 9) Save data to report files.
- 

Discovering and mapping the NetBackup domain network for analysis by extracting data from current system's configuration.  
(To see more details, consider using '-verbose' switch.)

Probing Completed in 4.695464 seconds.

Initiating tests...

COMPLETED. Thank you for your patience.

/log/dna/sample.name.symantec.com.NBDNA.20100907.191711.zip  
Archive created successfully!  
Return /log/dna/sample.name.symantec.com.NBDNA.20100907.191711.zip  
to Symantec Support upon request.

## NetBackup Support Utility (nbsu)

You can use the `nbsu` utility to gather appropriate diagnostic information about NetBackup and the operating system. The *Symantec NetBackup Troubleshooting Guide* describes when you would use this utility, as well as how to run it.

## About other support resources

If you need additional assistance with your NetBackup Appliance, contact Symantec Technical Support. Customers with a current support agreement may access Technical Support information at the following URL:

[www.symantec.com/business/support/](http://www.symantec.com/business/support/)

Information specific to NetBackup Appliance can be found at:

[go.symantec.com/nba](http://go.symantec.com/nba)

## About working with log files

As you define and troubleshoot a problem, always try to capture potentially valuable information. NetBackup Appliance has the ability to capture hardware-, software-, system-, and performance-related data. These log files capture information such as how the appliance has been running, whether there are any issues such as unconfigured volumes or arrays, temperature issues, batteries not being found, etc. These log files are stored in specific directories and can be accessed using the following methods:

[Table 3-1](#) lists the methods you can use to access the various appliance logs.

**Table 3-1** Viewing log files

| From...                         | Using...                                                                                                                                        | Logs collected..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NetBackup Appliance Web Console | You can use the <b>Collect Log files</b> wizard from the NetBackup Appliance Web Console to collect log files from an appliance.                | <ul style="list-style-type: none"> <li>■ Logs created by the NetBackup Copy Logs tool (<code>nbcplogs</code>)</li> <li>■ Appliance logs including high availability, hardware, and event logs</li> <li>■ Operating system logs</li> <li>■ All logs related to Media Server Deduplication Pool (MSDP)</li> <li>■ All logs related to the NetBackup Appliance Web Console</li> <li>■ Diagnostic information about NetBackup and the operating system</li> <li>■ Hardware and storage device logs</li> </ul> |
| NetBackup Appliance Web Console | You can use the <b>Monitor &gt; SCSP Audit View</b> screen from the NetBackup Appliance Web Console to retrieve the audit logs of an appliance. | NetBackup appliance's audit logs                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Table 3-1** Viewing log files (*continued*)

| From...                               | Using...                                                                                                                                                                                                                                                                                                        | Logs collected..                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>NetBackup Appliance Shell Menu</p> | <p>You can use the <code>Main &gt; Support &gt; Logs &gt; Browse</code> commands to open the <code>LOGROOT/&gt;</code> prompt. You can use commands like <code>ls</code> and <code>cd</code> to work with the appliance log directories and obtain the various logs.</p>                                        | <ul style="list-style-type: none"> <li>■ NetBackup appliance configuration log</li> <li>■ NetBackup logs, Volume Manager logs, and the NetBackup logs that are contained in the <code>openv</code> directory</li> <li>■ NetBackup appliance operating system (OS) installation log</li> <li>■ NetBackup administrative web user interface log and the NetBackup web server log</li> <li>■ NetBackup 52xx appliance device logs</li> </ul> |
| <p>NetBackup Appliance Shell Menu</p> | <p>You can use the <code>Main &gt; Support &gt; Logs &gt; VxLogView Module <i>ModuleName</i></code> commands to access the NetBackup Appliance VxUL (unified) logs. You can also use the <code>Main &gt; Support &gt; Share Open</code> commands and use the desktop to map, share, and copy the VxUL logs.</p> | <p>NetBackup Appliance unified logs:</p> <ul style="list-style-type: none"> <li>■ All</li> <li>■ CallHome</li> <li>■ Checkpoint</li> <li>■ Commands</li> <li>■ Common</li> <li>■ Config</li> <li>■ CrossHost</li> <li>■ Database</li> <li>■ Hardware</li> <li>■ HWMonitor</li> <li>■ Network</li> <li>■ RAID</li> <li>■ Seeding</li> <li>■ SelfTest</li> <li>■ Storage</li> <li>■ SWUpdate</li> <li>■ Trace</li> </ul>                    |

**Table 3-1** Viewing log files (*continued*)

| From...                        | Using...                                                                                                                                                           | Logs collected..                                 |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| NetBackup Appliance Shell Menu | You can use the <code>Main &gt; Support &gt; DataCollect</code> commands to collect storage device logs.                                                           | NetBackup 5xxx storage device logs               |
| NetBackup-Java applications    | If you encounter problems with the NetBackup-Java applications, you can use the scripts in this section to gather the required information for contacting support. | Logs relating to the NetBackup-Java applications |

# Release content

This appendix includes the following topics:

- [About the current release content](#)
- [NetBackup Appliance 2.6.1.1 release content](#)

## About the current release content

This release incorporates fixes to several known issues that existed with the NetBackup Appliance software. This section documents the known issues that have been fixed in this release of NetBackup Appliance.

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**Note:** This chapter contains only the fixes that are exclusive to NetBackup Appliance. The NetBackup Appliance 2.6.1.1 release also contains all of the fixes that are included in NetBackup 7.6.1.1. For a complete listing of the NetBackup 7.6.1.1 fixes, refer to the *NetBackup 7.6.1.1 Release Notes* on the Symantec Support website:

<http://www.symantec.com/docs/DOC8012>

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This NetBackup Appliance 2.6.1.1 release is an upgrade to the NetBackup Appliance 2.6.1 release. Refer to the release notes documents on the Symantec Support website to see all of the fixes and enhancements in previous releases:

<http://www.symantec.com/docs/DOC2792>

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When an appliance is released, the latest version of NetBackup is used as a basis on which the appliance code is built. That ensures that all applicable features, enhancements, and fixes that were released within NetBackup are included in the latest release of the appliance.

NetBackup 7.6.1.1 is the version of NetBackup software that the NetBackup Appliance 2.6.1.1 release installs. Information about the new features,

enhancements, and fixes found in NetBackup 7.6.1.1 can be found in the *NetBackup 7.6.1.1 Release Notes* document on the Symantec Support website:

<http://www.symantec.com/docs/DOC7793>

For the latest NetBackup Appliance compatibility information, refer to the *NetBackup Enterprise Server and Server 7.x Hardware Compatibility List* on the Symantec Support website:

[www.netbackup.com/compatibility](http://www.netbackup.com/compatibility)

## NetBackup Appliance 2.6.1.1 release content

This release incorporates fixes to several known issues that existed with the NetBackup Appliance software.

Some of these issues were identified, fixed, and available to customers in the form of an EEB. Those issues include an Etrack number for identification in the following list. Additional EEBs may have been released since this document was posted. For more information on any of the fixed issues in this section, Symantec recommends that you use Symantec Operations Readiness Tools (SORT). To access SORT, go to the following website:

<https://sort.symantec.com/netbackup>

The following list contains the known issues that were fixed and that are now included in this release of NetBackup Appliance:

- In NetBackup appliance versions 2.5 through 2.6.1, certain scenarios allowed the admin user to change or reset the password of the root user. This issue has been fixed in NetBackup Appliance 2.6.1.1.
- LDAP configuration failed because the appliance did not allow spaces in the base directory name (**Base DN**) and the bind directory name (**Bind DN**). This issue has been fixed in NetBackup Appliance 2.6.1.1.
- NetBackup appliance version 2.6.1.1 resolves the issue of Symantec Storage Shelf fans spinning up and running for an extended period of time at a high RPM, which could potentially result in a hardware failure.
- Intermittent timeout issues could occur when you added an LDAP or local user through the NetBackup Appliance Shell Menu. This issue has been fixed in NetBackup Appliance 2.6.1.1.
- Intermittent timeout issues could occur when you used the `NetBackupCLI` commands in the NetBackup Appliance Shell Menu. This issue has been fixed in NetBackup Appliance 2.6.1.1.



# Related documents

This appendix includes the following topics:

- [About the NetBackup Appliance documentation](#)

## About the NetBackup Appliance documentation

The following documents help to ensure that you can successfully install, configure, and use your appliance. All these documents are posted on the Symantec Support website at the following URL:

<http://www.symantec.com/docs/DOC2792>

**Table B-1** NetBackup Appliance documentation

| Guide                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Symantec NetBackup™ Appliance Hardware Installation Guide</i> | This guide provides the following information: <ul style="list-style-type: none"><li>■ An introduction to the physical layout of the appliance hardware.</li><li>■ Install preparation steps, such as unpacking procedures, environmental conditions, and safety precautions.</li><li>■ Hardware configuration steps<br/>This section guides you through the required steps to install your appliance in a rack and connect your appliance cables.</li></ul> |
| <i>Symantec NetBackup™ Appliance Initial Configuration Guide</i> | This document guides you through the configuration process from the NetBackup Appliance Web Console or from the NetBackup Appliance Shell Menu.                                                                                                                                                                                                                                                                                                              |
| <i>Symantec NetBackup Appliance Upgrade Guide</i>                | This document guides you through the required steps to upgrade a NetBackup appliance.                                                                                                                                                                                                                                                                                                                                                                        |

**Table B-1** NetBackup Appliance documentation (*continued*)

| Guide                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Symantec NetBackup™ Appliance Administrator's Guide</i>                         | <p>The <i>Symantec NetBackup™ Appliance Administrator's Guide</i> contains the following types of information:</p> <ul style="list-style-type: none"> <li>■ Deployment information</li> <li>■ Administering your appliance</li> <li>■ Monitoring information</li> </ul>                                                                                                                                    |
| <i>Symantec NetBackup™ Appliance Command Reference Guide</i>                       | The <i>Symantec NetBackup™ Appliance Command Reference Guide</i> provides a complete list of the commands that are available for you to use through the NetBackup Appliance Shell Menu.                                                                                                                                                                                                                    |
| <i>Symantec NetBackup Appliance Release Notes</i>                                  | This document contains information about this version of NetBackup Appliance. It contains brief descriptions of new features within the release, operational notes that apply to the release update, and any known issues.                                                                                                                                                                                 |
| <i>Symantec NetBackup Appliance Troubleshooting Guide</i>                          | This document contains the latest troubleshooting information for the NetBackup appliances.                                                                                                                                                                                                                                                                                                                |
| <i>Symantec NetBackup Appliance Capacity Planning and Performance Tuning Guide</i> | This document contains information on how to optimize your backup environment and your NetBackup appliance. It helps you to analyze your backup requirements and design a system that best fits your needs.                                                                                                                                                                                                |
| <i>Symantec NetBackup Appliance Security Guide</i>                                 | This document describes the security features in NetBackup Appliance and how to use those features to ensure that your appliance environment is secure.                                                                                                                                                                                                                                                    |
| <i>Symantec NetBackup Appliance Fibre Channel Guide</i>                            | This document describes the supported Fibre Channel (FC) capabilities and configurations for NetBackup appliances.                                                                                                                                                                                                                                                                                         |
| <i>Symantec NetBackup Appliance Decommissioning and Reconfiguration Guide</i>      | This document describes how to decommission and reconfigure a NetBackup appliance.                                                                                                                                                                                                                                                                                                                         |
| <i>Symantec NetBackup Appliance Third-party Legal Notices</i>                      | <p>The <i>Symantec NetBackup Appliance Third-party Legal Notices</i> document lists the third-party software that is included in this product, and it contains attributions for the third-party software.</p> <p>This document is available from the following website:<br/> <a href="http://www.symantec.com/about/profile/policies/eulas/">http://www.symantec.com/about/profile/policies/eulas/</a></p> |

For additional information about the appliance hardware, refer to the following documents:

- *Symantec NetBackup 5220 Appliance and Symantec Storage Shelf Product Description*
- *Symantec NetBackup 5230 Appliance and Symantec Storage Shelf Product Description*
- *Symantec NetBackup 5330 Appliance and Symantec Storage Shelf Product Description*
- *Symantec NetBackup 52xx and 5330 Appliance and Symantec Storage Shelf Safety and Maintenance Guide*