

Veritas NetBackup™ Enterprise Server and Server 10.0 - 10.x.x Hardware and Cloud Storage Compatibility List (HCL)

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Introduction

This Hardware and Cloud Storage Compatibility List (HCL) document contains information about hardware and cloud storage solutions supported with Veritas NetBackup Enterprise Server and Server 10.0 - 10.x.x. The HCL contains separate sections for each solution type. These sections can be accessed by expanding the bookmarks on the left. (For information on other NetBackup versions, see [NetBackup Compatibility <http://www.netbackup.com/compatibility>](http://www.netbackup.com/compatibility))

To ensure Veritas' support, [tape libraries](#) , [tape drives](#) , [virtual tape devices](#) , [NDMP devices](#) , [snapshot solutions](#) , Veritas OpenStorage [Cloud solutions](#) and [Storage Servers](#) must be present on the HCL and must be supported by the hardware manufacturer or cloud provider and the operating system vendor in the desired environment. (The list of Fibre Channel devices contained in the [Infrastructure Used for Testing](#) section represents equipment that has been used during NetBackup qualification testing in other sections of this document and is not intended to be a list of supported devices.)

Note: Our support policy is not the same for all solution types, so please read the notes at the beginning of each section for information on supported solution software and firmware versions.

Qualified hardware and cloud solutions listed in this document are tested through the Veritas Technology Ecosystem (VTE). If you would like to have hardware or cloud solutions considered for inclusion on this HCL, please contact your hardware partner or cloud provider to ensure they are a member of VTE and have submitted a request to have their product qualified with NetBackup. Information on Veritas Technology Ecosystem is available at [Veritas PartnerNet <https://partnernet.veritas.com/portal/faces/programs/technology-tracks-overview>](https://partnernet.veritas.com/portal/faces/programs/technology-tracks-overview)

For information about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement, please see the widget titled "NetBackup Future Platform and Feature Plans" at [SORT <https://sort.veritas.com/netbackup>](https://sort.veritas.com/netbackup)

NOTE: Support for Huawei solutions shown in this HCL is based on testing done prior to May 2019.

Hardware Compatibility List Users - Would you recommend this HCL to a colleague? If yes, please tell us what we are doing well. If no, please tell us how we could improve. Drop us an email at [<NetBackup_HCL@veritas.com>](mailto:NetBackup_HCL@veritas.com)

Contents

NetBackup Compatibility Lists	Configuration Files	NetBackup in the Cloud
Cloud Object Store Protection	NetBackup Appliances	Snapshot Solutions
NetBackup for Kubernetes	Cloud Storage Solutions	OST Storage Servers
Virtual Tape Libraries	Tape Libraries	Tape Drives
NDMP Devices	Descriptions of Disk Storage Unit Types	Encryption and Security Solutions
Fibre Transport Media Server HBAs	Infrastructure Used for Testing	Retiring Soon

NetBackup Compatibility Lists

We focus on hardware compatibility on this list, so here's a table with links to compatibility information on Operating Systems, Agents and Options, such as: NDMP, Databases, Desktop/Laptop, etc.

We now provide most NetBackup compatibility documents in an HTML format along with the classic PDF. Add [NetBackup Compatibility <http://www.netbackup.com/compatibility>](http://www.netbackup.com/compatibility) to your bookmarks for quick links to the documents listed below, compatibility lists for earlier NetBackup versions, and much more.

Veritas NetBackup 10.0 - 10.x.x Compatibility Lists

Compatibility List Name	URL
NetBackup Enterprise Server and Server 10.0 - 10.x.x OS Software Compatibility List (Contains compatibility info for Client, Server, Cluster, NOM, NDMP, BMR, SAN Client)	https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf
NetBackup 10.0 - 10.x.x Database and Application Agent Compatibility List	https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_DBSCCL&requestType=pdf
Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments	https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE
NetBackup for NDMP: NAS appliance information	https://www.veritas.com/docs/100016340
Entire listing of NetBackup Compatibility Lists	http://www.netbackup.com/compatibility

Configuration Files

NetBackup uses cloud configuration files to add support for new cloud providers, and uses device mappings files to add new device support and to enable certain cloud and OpenStorage functionality.

Cloud Configuration Files

The latest version of this file is included in NetBackup release updates and is also available for download independently on the Veritas support site. This file is updated whenever new cloud provider support is needed, independent of NetBackup release updates. This file is cumulative, so the most recent version contains all support added in earlier versions. The column "NetBackup version" indicates the NetBackup Primary Server version that the Cloud Configuration package requires for installation.

For more information on configuring Cloud solutions see ["About the cloud storage vendors for Veritas NetBackup"](https://www.veritas.com/content/support/en_US/doc/58500769-152291632-0/v95640454-152291632) <https://www.veritas.com/content/support/en_US/doc/58500769-152291632-0/v95640454-152291632> .

Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.12.2	Media Server: 8.1.2 or later	Media Server: "Cloud Configuration Package" < https://www.veritas.com/content/support/en_US/downloads/update.UPD971796.html >	Added support: - Amazon (S3) - Canada West (Calgary) region
2.12.1	Media Server: 8.1.2 or later	Media Server: Use the most recent version above.	Added support: - Calamu Protect (S3)
2.11.8	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support for regions in AWS Recovery Vault: - Asia Pacific (Hyderabad) - Asia Pacific (Melbourne) - Europe (Spain) - Europe (Zurich) - Israel (Tel Aviv) - Middle East (UAE)
2.11.6	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Amazon GovCloud - Glacier Instant Retrieval (IR)
2.11.5	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Cold tier - Microsoft Azure and Azure Government
2.11.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - iTernity iCAS (S3) - S3 Object Lock
2.11.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Impossible Cloud (S3) - S3 Object Lock - Google (S3) - Europe West 10 (Berlin) region - Google (S3) - Middle East Central 2 (Dammam) region
2.11.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Amazon (S3) - Israel (Tel Aviv) region

Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.11.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Cloud Object Store Protection (COSP) - Quantum ActiveScale Systems (S3)
2.10.12	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - SandStone MOS (S3)
2.10.11	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Cloud Object Store Protection (COSP) - STACKIT Object Storage (S3)
2.10.10	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Pure Storage FlashBlade (S3)
2.10.9	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - NetApp ONTAP S3 - Iron Mountain Iron Cloud SOS (S3) - Impossible Cloud (S3) - Amazon (S3) - Asia Pacific (Melbourne) region - Amazon (S3) - Asia Pacific (Hyderabad) region - Amazon (S3) - EU (Zurich) region - Amazon (S3) - EU (Spain) region - Google (S3) - Europe West 12 (Turin) region - Google (S3) - Middle East Central 1 (Doha) region
2.10.8	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - VAST Data (S3)

Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.10.7	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added earlier support not included in NetBackup 10.2 release: <ul style="list-style-type: none"> - Amazon Glacier Instant Retrieval (IR) - Backblaze B2 Cloud Storage (S3) - DataCore Swarm (S3) - iTernity iCAS FS (S3) - Quantum ActiveScale Glacier Storage Class - Spectra Vail (S3) - STACKIT Object Storage (S3) - NEC Cloud IaaS Object Storage N2 (S3) - Amazon (S3) - Asia Pacific (Jakarta) region - Amazon (S3) – ME (UAE) region - Google (S3) - Asia South2 (Delhi) region - Google (S3) - Australia-Southeast2 (Melbourne) region - Google (S3) - EU West8 (Milan) region - Google (S3) - EU West9 (Paris) region - Google (S3) - EU Southwest1 (Madrid) region - Google (S3) - North America Northeast2 (Toronto) region - Google (S3) - US East5 (Columbus) region - Google (S3) - US South1 (Dallas) region - Wasabi (S3) - AP Southeast 1 (Singapore) region - Wasabi (S3) - AP Southeast 2 (Sydney) region - Wasabi (S3) - EU Central 2 (Frankfurt) region - Wasabi (S3) - CA Central 1 (Toronto) region - Wasabi (S3) - EU West 2 (Paris) region
2.10.6	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: <ul style="list-style-type: none"> - STACKIT Object Storage (S3) - Backblaze B2 Cloud Storage (S3) - NEC Cloud IaaS Object Storage (N2) (S3)

Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.10.5	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Spectra Logic Vail (S3) - DataCore Swarm (S3) - Google (S3) - Middle East West1 (Tel Aviv) region <p>Added earlier support not included in NetBackup 10.1.1 release:</p> <ul style="list-style-type: none"> - Amazon Glacier Instant Retrieval (IR) - iTernity iCAS FS (S3) - Amazon (S3) - Asia Pacific (Jakarta) region - Amazon (S3) - Middle East (UAE) region - Google (S3) - Asia South2 (Delhi) region - Google (S3) - Australia-Southeast2 (Melbourne) region - Google (S3) - EU West8 (Milan) region - Google (S3) - EU West9 (Paris) region - Google (S3) - EU Southwest1 (Madrid) region - Google (S3) - US East5 (Columbus) region - Google (S3) - US South1 (Dallas) region - Google (S3) - North America Northeast2 (Toronto) region - Wasabi (S3) - EU West 2 (Paris) region - Wasabi (S3) - AP Southeast 1 (Singapore) region - Wasabi (S3) - AP Southeast 2 (Sydney) region - Wasabi (S3) - EU Central 2 (Frankfurt) region - Wasabi (S3) - CA Central 1 (Toronto) region
2.10.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Google (S3) - EU West8 (Milan) region
2.10.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Veritas NetBackup Recovery Vault AWS Glacier Deep Archive
2.10.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Amazon (S3) - Middle East (UAE) region

Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.10.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <p>Added earlier support not included in NetBackup 10.1 release:</p> <ul style="list-style-type: none"> - Amazon Glacier Instant Retrieval (IR) - iTernity iCAS FS (S3) - Amazon (S3) - Asia Pacific (Jakarta) region - Google (S3) - Asia South2 (Delhi) region - Google (S3) - Australia-Southeast2 (Melbourne) region - Google (S3) - EU West9 (Paris) region - Google (S3) - EU Southwest1 (Madrid) region - Google (S3) - US East5 (Columbus) region - Google (S3) - US South1 (Dallas) region - Google (S3) - North America Northeast2 (Toronto) region - Wasabi (S3) - EU-West-2 (Paris) region - Wasabi (S3) - AP Southeast 1 (Singapore) region - Wasabi (S3) - AP Southeast 2 (Sydney) region - Wasabi (S3) - EU Central 2 (Frankfurt) region - Wasabi (S3) - CA Central 1 (Toronto) region
2.9.5	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Cloudian HyperStore - S3 Object Lock
2.9.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Google (S3) - US East5 (Columbus) region - Google (S3) - US South1 (Dallas) region - iTernity iCAS FS (S3)
2.9.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Google (S3) - EU Southwest1 (Madrid) region - Google (S3) - EU West9 (Paris) region - Wasabi (S3) - AP Southeast 1 (Singapore) region
2.9.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Wasabi (S3) - AP Southeast 2 (Sydney) region - Wasabi (S3) - EU Central 2 (Frankfurt) region - Wasabi (S3) - CA Central 1 (Toronto) region
2.9.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <p>Added earlier support not included in NetBackup 10.0 release:</p> <ul style="list-style-type: none"> - Amazon Glacier Instant Retrieval (IR) - Amazon GovCloud - Glacier Instant Retrieval (IR) - Amazon (S3) - Asia Pacific (Jakarta) region - Google (S3) - Asia South2 (Delhi) region - Google (S3) - Australia-Southeast2 (Melbourne) region - Google (S3) - NorthAmerica Northeast2 (Toronto) region - Quantum Active Archive and ActiveScale Systems - Standard (S3) - Quantum Active Archive and ActiveScale Systems - Glacier (S3) - Wasabi (S3) - EU-West-2 (Paris) region

Cloud Configuration File Versions released with NetBackup and NetBackup Appliances

NetBackup / NetBackup Appliance version	Cloud Configuration File version
10.4	2.12.0
10.3	2.11.0
10.2	2.10.0
10.1.1	2.10.0
10.1	2.10.0
10.0	2.9.0

Device Mappings Files

NetBackup uses device mappings files to add new device support, and to enable certain cloud and OpenStorage functionality. The latest version of these files is included in NetBackup release updates and is also available for download independently on the Veritas support site. This file is updated whenever new device support is needed independent of NetBackup release updates.

Veritas recommends downloading and installing the latest device mappings files package:

- Before configuring a cloud solution with the Cloud Configuration Wizard. If your cloud solution is listed in the recent additions below, check to see that the version of device mappings you're running is at that level or later. If you're running an older version, download and install the latest package to permit configuration of the cloud solution.
- Before configuring an OpenStorage storage server for Accelerator or Targeted A.I.R.. If your OST solution is listed in the recent additions below, check to see that the version of device mappings you're running is at that level or later. If you're running an older version, download and install the latest package to permit configuration of the OST functionality.
- Before discovering and configuring devices with the Device Configuration Wizard. If your configuration contains a new device listed in the recent additions below, check to see that the version of the device mappings you're running is at that level or later. If you're running an older version, download and install the latest package to properly configure the device.

The first table below contains links to the current versions of the device mappings file packages, along with a list of support added with current and recent versions.

The second table lists the version of the device mappings file released with NetBackup 10.0 and each subsequent Release Update.

Device Mappings Files Packages

Version	OS platforms / URL	Support added
1.178	Linux/UNIX: "Device Mappings Package for UNIX / Linux" < https://www.veritas.com/content/support/en_US/downloads/update.UPD399544.html > Windows: "Device Mappings Package for Windows Servers" < https://www.veritas.com/content/support/en_US/downloads/update.UPD620485.html >	- Calamu Protect (S3)
1.177	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- IBM iCOS (S3) Legacy endpoints

Device Mappings Files Packages

Version	OS platforms / URL	Support added
1.176	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- NetApp ONTAP S3 - Iron Mountain Iron Cloud SOS (S3) - Impossible Cloud (S3) - Pure Storage FlashBlade (S3)
1.174	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- VAST Data (S3)
1.173	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- STACKIT Object Storage (S3) - Backblaze B2 Cloud Storage (S3) - NEC Cloud IaaS Object Storage (N2) (S3)
1.172	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Spectra Logic Vail (S3) - DataCore Swarm (S3) - T-AIR for Infinidat OST
1.171	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- iTernity iCAS FS (S3)
1.169	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Hewlett Packard Enterprise LTO Ultrium 9 tape drives - IBM LTO Ultrium 9 tape drives - Quantum LTO Ultrium 9 tape drives - Quantum Active Archive and ActiveScale Systems - Standard (S3) - Quantum Active Archive and ActiveScale Systems - Glacier (S3)

Device Mappings Versions released with NetBackup and NetBackup Appliances

NetBackup / NetBackup Appliance version	Device Mappings version
10.4	1.176
10.3	1.176
10.2	1.170
10.1.1	1.170
10.1	1.170
10.0	1.168

NetBackup in the Cloud

Core NetBackup Deployments in the Cloud

NetBackup supports cloud-based Primary Servers and Media Servers as part of extending data protection into workloads in the cloud. For more information, see the "360 Data Management" <https://www.veritas.com/360.html?inid=us_veritas_home_trend_cloud> page.

Core NetBackup Deployments in the Cloud - Considerations

Subject	Notes
Support assumptions	<ol style="list-style-type: none">1. NetBackup is supported on any cloud infrastructure environment that meets NetBackup's minimum resource requirements. For details on operating systems supported by NetBackup, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> . For details on NetBackup minimum resource requirements, please refer to "Installation and upgrade requirements for UNIX and Linux" <https://www.veritas.com/content/support/en_US/doc/27801100-136237906-0/v112189449-136237906> or "Installation and upgrade requirements for Windows and Windows clusters" <https://www.veritas.com/content/support/en_US/doc/27801100-136237906-0/v112189469-136237906> in the NetBackup Installation Guide.2. Veritas does not certify the cloud compute layer or the cloud block storage layer. They are assumed to work as similar physical resources do.3. NetBackup-certified cloud object storage support is listed in the vendor tables in the Cloud Storage Solutions section of this HCL.4. NetBackup deployment templates are available for some operating systems and cloud infrastructure solutions. Supported templates are listed in the vendor tables below. For a quicker and easier NetBackup deployment, Veritas strongly recommends using these templates for deploying NetBackup instead of doing a manual NetBackup installation. For examples, see Setting up NetBackup CloudCatalyst in AWS <https://www.veritas.com/content/support/en_US/doc/CC_AWS_guide> and NetBackup in the Cloud - Guidelines for AWS Deployments <https://www.veritas.com/content/dam/Veritas/docs/briefs/NBU-Guidelines-for-AWS-Deployments.pdf> .

Core NetBackup Deployments in the Cloud - Links to Solution Information

NetBackup is supported on any cloud infrastructure environment that meets NetBackup's minimum resource requirements. Solution briefs have been created for the cloud infrastructures listed in the table below.

Vendor	URL
Amazon	< https://www.veritas.com/solution/amazon-web-services >
Google	< https://www.veritas.com/solution/google-cloud-platform >
IBM	< https://www.veritas.com/solution/ibm-cloud >
Microsoft	< https://www.veritas.com/solution/microsoft-cloud >
Oracle	< https://www.veritas.com/solution/oracle-cloud >

Core NetBackup Deployments in the Cloud - Deployment Templates

Contents

[Amazon](#)

[Google](#)

[Microsoft](#)

Amazon

This solution deploys a NetBackup Primary or Media Server in an Amazon Web Services EC2 instance, using the AWS CloudFormation feature.

Amazon Machine Image (AMI) for NetBackup

Operating System	NetBackup template file	NetBackup Primary Server support	NetBackup Media Server support	Supported Locales / Regions
Red Hat Enterprise Linux	Veritas NetBackup for AWS (BYOL) < https://aws.amazon.com/marketplace >	Yes	Yes	All Locales

Google

This solution deploys a NetBackup Primary or Media Server in a Google Compute Engine VM, using a template.

Google Cloud Platform for NetBackup

Operating System	NetBackup template file	NetBackup Primary Server support	NetBackup Media Server support	Supported Locales / Regions
Red Hat Enterprise Linux	Veritas NetBackup on Google Cloud Platform Marketplace < https://console.cloud.google.com/marketplace/product/veritas-public/netbackup-10 >	Yes	Yes	All Locales

Microsoft

This solution deploys a NetBackup Primary or Media Server in a Microsoft Azure Virtual Machine, using an Azure Resource Manager (ARM) template.

Azure Resource Manager (ARM) for NetBackup

Operating System	NetBackup template file	NetBackup Primary Server support	NetBackup Media Server support	Supported Locales / Regions
Microsoft Windows Server	Veritas NetBackup on Azure Marketplace < https://azuremarketplace.microsoft.com/en-us/marketplace/apps/veritas.veritas-netbackup-8-s?tab=Overview >	Yes	Yes	All Locales

NetBackup Snapshot Manager In-Cloud Data Protection

Contents

<u>NetBackup Snapshot Manager In-Cloud Data Protection - System Requirements</u>	<u>NetBackup Snapshot Manager In-Cloud Data Protection - High Level Feature Support</u>	<u>NetBackup Snapshot Manager In-Cloud Data Protection - Restore Options from Snapshots</u>
<u>NetBackup Snapshot Manager In-Cloud Data Protection Replication Support Across Regions</u>	<u>NetBackup Snapshot Manager In-Cloud Data Protection Replication Support Across Accounts</u>	<u>NetBackup Snapshot Manager In-Cloud Data Protection Restore Options for Snapshots Replicated Across Regions</u>
<u>NetBackup Snapshot Manager In-Cloud Data Protection Restore Options for Snapshots Replicated Across Accounts</u>	<u>NetBackup Snapshot Manager In-Cloud Data Protection Supported Regions</u>	<u>NetBackup Snapshot Manager In-Cloud Data Protection - Database Applications</u>

NetBackup Snapshot Manager In-Cloud Data Protection - System Requirements

NetBackup Snapshot Manager In-Cloud Data Protection - Considerations

Subject	Notes
Support considerations	<p>With NetBackup 10.0, below supports have been added.</p> <ol style="list-style-type: none"> 1. Azure Gen2 Linux on Ubuntu 18.04 and 20.04, RHEL 8.4, and RHEL 7.8. 2. Azure Gen2 Windows on Windows 2019. <p>From NetBackup 10.3.0.1 onwards, Amazon Linux 2 is supported as Asset Operating system for all Snapshot Manager Host Operating systems with Granular Recovery Support included.</p> <p>From NetBackup 10.4 onwards, Amazon Linux 2023 is supported as Asset Operating system for all Snapshot Manager Host Operating systems with Granular Recovery Support included.</p>
General considerations	<p>With NetBackup 10.1 onwards, NetBackup CloudPoint is renamed as NetBackup Snapshot Manager.</p>

NetBackup Snapshot Manager In-Cloud Data Protection - Snapshot Manager Host and Asset, GRT Compatibility

NetBackup Snapshot Manager In-Cloud Data Protection is supported with the following operating systems and file systems:

Note: Before restoring applications or file systems from an OS version to a different OS version, refer to the OS vendor's and application vendor's compatibility lists to ensure support. Restoring a file system from a later version to an earlier version is not recommended.

NetBackup Snapshot Manager In-Cloud Data Protection - Snapshot Manager Host and Asset, GRT Compatibility

Snapshot Manager Host Operating System	Asset Host Operating System	NetBackup 10.0 (or later) Start of Support	Granular Recovery Support
Oracle Enterprise Linux 8.x	Oracle Enterprise Linux 7.9, 8.8, 9.2	10.4	No
Oracle Enterprise Linux 8.x	Red Hat Enterprise Linux 7.x, 8.x, 9.x	10.4	No
Oracle Enterprise Linux 8.x	Windows 2019, 2022	10.4	No
Red Hat Enterprise Linux 7.x	Red Hat Enterprise Linux 7.x	10.0	Yes
Red Hat Enterprise Linux 7.x	Red Hat Enterprise Linux 8.2, 8.3	10.0	No
Red Hat Enterprise Linux 7.x	Windows 2016, 2019	10.0	Yes. Supported with NTFS file system.
Red Hat Enterprise Linux 8.4	Red Hat Enterprise Linux 7.x, 8.2, 8.4	10.0	Yes
Red Hat Enterprise Linux 8.4	Windows 2016, 2019	10.0	Yes
Red Hat Enterprise Linux 8.6	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6	10.1	Yes
Red Hat Enterprise Linux 8.6	Windows 2016, 2019, 2022	10.1	Yes
Red Hat Enterprise Linux 8.7	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.7	10.1.1	Yes
Red Hat Enterprise Linux 8.7	Windows 2016, 2019, 2022	10.1.1	Yes

NetBackup Snapshot Manager In-Cloud Data Protection - Snapshot Manager Host and Asset, GRT Compatibility

Snapshot Manager Host Operating System	Asset Host Operating System	NetBackup 10.0 (or later) Start of Support	Granular Recovery Support
Red Hat Enterprise Linux 8.8	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.8	10.2	Yes
Red Hat Enterprise Linux 8.8	Windows 2016, 2019, 2022	10.2	Yes
Red Hat Enterprise Linux 8.9	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.8, 8.9	10.2	Yes
Red Hat Enterprise Linux 8.9	Windows 2016, 2019, 2022	10.2	Yes
Red Hat Enterprise Linux 9.0	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 9.0	10.1.1	Yes
Red Hat Enterprise Linux 9.0	Windows 2016, 2019, 2022	10.1.1	Yes
Red Hat Enterprise Linux 9.1	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 9.0, 9.1	10.2	Yes
Red Hat Enterprise Linux 9.1	Windows 2016, 2019, 2022	10.2	Yes
Red Hat Enterprise Linux 9.2	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 9.0, 9.1, 9.2	10.2	Yes
Red Hat Enterprise Linux 9.2	Windows 2016, 2019, 2022	10.2	Yes
Red Hat Enterprise Linux 9.3	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 9.0, 9.1, 9.2, 9.3	10.2	Yes
Red Hat Enterprise Linux 9.3	Windows 2016, 2019, 2022	10.2	Yes
Rocky Linux 9.2	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
Rocky Linux 9.2	Windows 2016, 2019, 2022	10.1.1	Yes
Rocky Linux 9.0	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
Rocky Linux 9.0	Windows 2016, 2019, 2022	10.1.1	Yes
Rocky Linux 8.9	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.2	Yes
Rocky Linux 8.9	Windows 2016, 2019, 2022	10.2	Yes
Rocky Linux 8.8	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
Rocky Linux 8.8	Windows 2016, 2019, 2022	10.1.1	Yes
Rocky Linux 8.6	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
Rocky Linux 8.6	Windows 2016, 2019, 2022	10.1.1	Yes
SUSE Linux Enterprise Server 15 SP2	Red Hat Enterprise Linux 7.x, 8.0, 8.1, 8.2, 8.3	10.0	Yes
SUSE Linux Enterprise Server 15 SP2	Windows 2016, 2019	10.0	Yes
SUSE Linux Enterprise Server 15 SP3	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.2	Yes
SUSE Linux Enterprise Server 15 SP3	Windows 2016, 2019, 2022	10.2	Yes
SUSE Linux Enterprise Server 15 SP4	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.2	Yes
SUSE Linux Enterprise Server 15 SP4	Windows 2016, 2019, 2022	10.2	Yes
SUSE Linux Enterprise Server 15 SP5	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
SUSE Linux Enterprise Server 15 SP5	Windows 2016, 2019, 2022	10.1.1	Yes
Ubuntu 18.04 LTS	Red Hat Enterprise Linux 7.x	10.0	Yes
Ubuntu 18.04 LTS	Red Hat Enterprise Linux 8.2, 8.3	10.0	No

NetBackup Snapshot Manager In-Cloud Data Protection - Snapshot Manager Host and Asset, GRT Compatibility

Snapshot Manager Host Operating System	Asset Host Operating System	NetBackup 10.0 (or later) Start of Support	Granular Recovery Support
Ubuntu 18.04 LTS	Windows 2016, 2019	10.0	Yes. Supported with NTFS file system.
Ubuntu 20.04	Red Hat Enterprise Linux 7.x, 8.2, 8.3	10.0	Yes
Ubuntu 20.04	Windows 2016, 2019	10.0	Yes
Ubuntu 22.04	Oracle Enterprise Linux 7.9, 8.8, 9.2	10.4	No
Ubuntu 22.04	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
Ubuntu 22.04	Windows 2016, 2019, 2022	10.1.1	Yes
Ubuntu 23.04	Red Hat Enterprise Linux 7.x, 8.2, 8.4, 8.6, 8.7, 9.0	10.1.1	Yes
Ubuntu 23.04	Windows 2016, 2019, 2022	10.1.1	Yes

NetBackup Snapshot Manager In-Cloud Data Protection - Supported File Systems

NetBackup Snapshot Manager In-Cloud Data Protection is supported with the following operating systems and file systems:

NetBackup Snapshot Manager In-Cloud Data Protection - File system support

Operating System	Supported File Systems
Linux	[1]ext3, ext4, xfs
Windows	NTFS

1. ext2 snapshots are not application-consistent due to underlying OS limitations.

NetBackup Snapshot Manager In-Cloud Data Protection - Supported Azure Kubernetes Service Versions

NetBackup Snapshot Manager In-Cloud Data Protection is supported with the following versions of Azure Kubernetes Service: 1.21.x and later

NetBackup Snapshot Manager In-Cloud Data Protection - High Level Feature Support

NetBackup Snapshot Manager In-Cloud Data Protection high level feature support information is listed in the tables below, organized by vendor.

From Netbackup 10.4 onwards, support for Agentless feature is deprecated for Windows server 2016.

NetBackup Snapshot Manager In-Cloud Data Protection High Level Feature Support - Amazon Web Services

Operating System for Protected VM	On-host Agent	Agentless	Granular Restore (GRT)	Oracle	Microsoft SQL/SQL-AG	Snapshot Replication	Encrypted Volumes
Linux	Yes	Yes	Yes	Yes	No	Yes	Yes
Windows	Yes	Yes	Yes	No	Yes	Yes	Yes

NetBackup Snapshot Manager In-Cloud Data Protection High Level Feature Support - Google Cloud Platform

Operating System for Protected VM	On-host Agent	Agentless	Granular Restore (GRT)	Oracle	Microsoft SQL/SQL-AG	Snapshot Replication	Encrypted Volumes
Linux	Yes	Yes	Yes	No	No	No	Yes
Windows	Yes	Yes	Yes	No	Yes	No	Yes

NetBackup Snapshot Manager In-Cloud Data Protection High Level Feature Support - Microsoft Azure

Operating System for Protected VM	On-host Agent	Agentless	Granular Restore (GRT)	Oracle	Microsoft SQL/SQL-AG	Snapshot Replication	Encrypted Volumes
Linux	Yes	Yes	Yes	Yes	No	No	Yes
Windows	Yes	Yes	Yes	No	Yes	No	Yes

NetBackup Snapshot Manager In-Cloud Data Protection High Level Feature Support - Microsoft Azure Stack Hub

Operating System for Protected VM	On-host Agent	Agentless	Granular Restore (GRT)	Oracle	Microsoft SQL/SQL-AG	Snapshot Replication	Encrypted Volumes
Linux	Yes	Yes	Yes	Yes	No	No	No
Windows	Yes	Yes	Yes	No	Yes	No	No

NetBackup Snapshot Manager In-Cloud Data Protection High Level Feature Support - Oracle Cloud Infrastructure

Operating System for Protected VM	On-host Agent	Agentless	Granular Restore (GRT)	Oracle	Microsoft SQL/SQL-AG	Snapshot Replication	Encrypted Volumes
Linux	Yes	Yes	No	Yes	No	No	Yes
Windows	No	No	No	No	No	No	Yes

NetBackup Snapshot Manager In-Cloud Data Protection - Restore Options from Snapshots

NetBackup Snapshot Manager In-Cloud Data Protection support for snapshot restore options is listed in the tables below, organized by vendor.

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options - Amazon Web Services

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	Yes	Yes	Yes [1]	Yes	Yes [2]
Volumes	Yes	Yes	No	No	No
Hosted Applications	Yes	Yes	No	No	No
PaaS Applications: Amazon RDS, Aurora	Yes	Yes	No	No	No

- Overwrites the existing virtual machine.
- Supported when asset is protected with Granular Restore-enabled Protection Plan

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options - Google Cloud Platform

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	Yes	Yes	No	Yes	Yes [1]
Volumes	Yes	Yes	No	No	No
Hosted Applications	Yes	Yes	No	No	No

- Supported when asset is protected with Granular Restore-enabled Protection Plan

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options - Microsoft Azure

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	Yes	Yes	Yes	Yes	Yes [1]
Volumes	Yes	Yes	No	No	No
Hosted Applications	Yes	Yes	No	No	No

- Supported when asset is protected with Granular Restore-enabled Protection Plan

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options - Microsoft Azure Stack Hub

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	Yes	Yes	No	Yes	Yes [1]
Volumes	Yes	Yes	No	No	No
Hosted Applications	Yes	Yes	No	No	No

1. Supported when asset is protected with Granular Restore-enabled Protection Plan

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options - Oracle Cloud Infrastructure

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	Yes	Yes	No	No	No
Volumes	No	No	No	No	No
Hosted Applications	Yes	Yes	No	No	No

NetBackup Snapshot Manager In-Cloud Data Protection Replication Support Across Regions

NetBackup Snapshot Manager In-Cloud Data Protection support for replication across regions is listed in the tables below, organized by cloud vendor.

NetBackup Snapshot Manager In-Cloud Data Protection Replication Support - Amazon Web Services

Asset	Replication support
Virtual Machine	Yes
Volumes	Yes
Hosted Applications	Yes
PaaS Applications: Amazon RDS, Aurora - manual snapshots	Yes - Can be replicated to same region as source
PaaS Applications: Amazon RDS, Aurora - AWS automated snapshots	No

NetBackup Snapshot Manager In-Cloud Data Protection Replication Support Across Accounts

NetBackup Snapshot Manager In-Cloud Data Protection support for replication across accounts is listed in the tables below, organized by vendor.

NetBackup Snapshot Manager In-Cloud Data Protection Replication Support - Amazon Web Services

Asset	Replication support
Virtual Machine	Yes
Volumes	Yes
Hosted Applications	Yes
PaaS Applications: Amazon RDS, Aurora - manual snapshots	Yes - Can be replicated to same region as source
PaaS Applications: Amazon RDS, Aurora - AWS automated snapshots	No

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options for Snapshots Replicated Across Regions

NetBackup Snapshot Manager In-Cloud Data Protection support for restore options for snapshots replicated across regions is listed in the tables below, organized by vendor.

NetBackup Snapshot Manager In-Cloud Data Protection Replicated Snapshot Restore Support - Amazon Web Services

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	No	Yes	No	Yes	Yes [1]
Volumes	No	Yes - Restore to VM in the region of user's choice	No	No	No
Hosted Applications - host level	No	Yes	No	No	No
Hosted Applications - disk level	No	Yes	No	No	No
PaaS Applications: Amazon RDS, Aurora	No	Yes - Restore to subnet in region of user's choice	No	No	No

1. Supported when asset is protected with Granular Restore-enabled Protection Plan

NetBackup Snapshot Manager In-Cloud Data Protection Restore Options for Snapshots Replicated Across Accounts

NetBackup Snapshot Manager In-Cloud Data Protection support for restore options for snapshots replicated across accounts is listed in the tables below, organized by vendor.

NetBackup Snapshot Manager In-Cloud Data Protection Replicated Snapshot Restore Support - Amazon Web Services

Asset	Restore to Original Location	Restore to Alternate Location	Rollback Restore	Restore Volumes	Restore Files and Folders
Virtual Machine	No	Yes	No	Yes	Yes [1]
Volumes	No	Yes - Restore to VM in the locale of user's choice	No	No	No
Hosted Applications	No	Yes	No	No	No
PaaS Applications: Amazon RDS, Aurora	No	Yes - Restore to subnet in region of user's choice	No	No	No

1. Supported when asset is protected with Granular Restore-enabled Protection Plan

NetBackup Snapshot Manager In-Cloud Data Protection Supported Regions

Region support for cloud providers is listed in the tables below, organized by provider.

NetBackup Snapshot Manager In-Cloud Data Protection - Supported Regions

Cloud Provider	Supported Regions
Amazon Web Services	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), AWS GovCloud (US-East), AWS GovCloud (US-West), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Middle East (Bahrain), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon), Asia Pacific (Jakarta), Middle East (UAE) [1], Asia Pacific (Hyderabad), Asia Pacific (Osaka), Europe (Zurich), Europe (Stockholm), Europe (Spain) [2]
Google Cloud Platform	Asia-East1 (zones a, b, c), Asia-East2 (zones a, b, c), Asia-Northeast1 (zones a, b, c), Asia-Northeast2 (zones a, b, c), Asia-Northeast3 (zones a, b, c), Asia-South1 (zones a, b, c), Asia-Southeast1 (zones a, b, c), Asia-Southeast2 (zones a, b, c), Australia-Southeast1 (zones a, b, c), Europe-North1 (zones a, b, c), Europe-West1 (zones b, c, d), Europe-West2 (zones a, b, c), Europe-West3 (zones a, b, c), Europe-West4 (zones a, b, c), Europe-West6 (zones a, b, c), NorthAmerica-Northeast1 (zones a, b, c), SouthAmerica-East1 (zones a, b, c), US-Central1 (zones a, b, c, f), US-East1 (zones b, c, d), US-East4 (zones a, b, c), US-West1 (zones a, b, c), US-West2 (zones a, b, c), US-West3 (zones a, b, c), US-West4 (zones a,b,c), Asia-South2 (zones a, b, c), Australia-Southeast2 (zones a, b, c), Europe-Central2 (zones a, b, c), Europe-Southwest1 (zones a, b, c), Europe-West8 (zones a, b, c), Europe-West9 (zones a, b, c), NorthAmerica-Northeast2 (zones a, b, c), SouthAmerica-West1 (zones a, b, c) [3], US-East5 (zones a, b, c), US-South1 (zones a, b, c), ME-West1 (zones a, b, c) [4]
Microsoft Azure	Central US, East US, East US 2, North Central US, South Central US, West US, West US 2, West Central US, Canada Central, Canada East, Brazil South, South Africa North, South Africa West, UAE Central, UAE North, Norway East, Norway West, North Europe, West Europe, France Central, France South, UK South, UK West, Switzerland North, Switzerland West, East Asia, Southeast Asia, Australia Central, Australia Central 2, Australia East, Australia Southeast, Central India, South India, West India, Japan West, Korea Central, Korea South, Germany North, Germany West Central, US Gov Arizona, US Gov Texas, US Gov Virginia, Central US EUAP, East US 2 EUAP, West US 3, Brazil Southeast, Sweden Central, Jio India West, Jio India Central, Japan East, US DoD Central, US DoD East, US Gov Iowa [5]

NetBackup Snapshot Manager In-Cloud Data Protection - Supported Regions

Cloud Provider	Supported Regions
Microsoft Azure Stack Hub	Customer-deployed private regions
Oracle Cloud Infrastructure [6]	af-johannesburg-1, ap-chuncheon-1, ap-melbourne-1, ap-mumbai-1, ap-hyderabad-1, ap-osaka-1, ap-seoul-1, ap-singapore-1, ap-sydney-1, ap-tokyo-1, ca-montreal-1, ca-toronto-1, eu-amsterdam-1, eu-frankfurt-1, eu-madrid-1, eu-marseille-1, eu-milan-1, eu-paris-1, eu-stockholm-1, eu-zurich-1, il-jerusalem-1, me-abudhabi-1, me-dubai-1, me-jeddah-1, mx-monterrey-1, mx-queretaro-1, sa-bogota-1, sa-saopaulo-1, sa-santiago-1, sa-vinhedo-1, uk-cardiff-1, uk-london-1, us-ashburn-1, us-chicago-1, us-phoenix-1, us-sanjose-1 DRCC -> ap-dcc-canberra-1, eu-dcc-dublin-1, eu-dcc-dublin-2, eu-dcc-milan-1, eu-dcc-milan-2, eu-dcc-rating-1, eu-dcc-rating-2, me-dcc-muscat-1

1. Support for Asia Pacific (Jakarta) and Middle East (UAE) regions requires NetBackup 10.1 or later.
2. Support for Asia Pacific (Hyderabad), Asia Pacific (Osaka), Europe (Zurich), Europe (Stockholm) and Europe (Spain) regions requires NetBackup 10.1.1 or later.
3. Support for Asia-South2, Australia-Southeast2, Europe-Central2, Europe-Southwest1, Europe-West8, Europe-West9, NorthAmerica-Northeast2 and SouthAmerica-West1 regions requires NetBackup 10.1 or later.
4. Support for US-East5, US-South1 and ME-West1 regions requires NetBackup 10.1.1 or later.
5. Support for Central US EUAP, East US 2 EUAP, West US 3, Brazil Southeast, Sweden Central, Jio India West, Jio India Central, Japan East, US DoD Central, US DoD East and US Gov Iowa regions requires NetBackup 10.1 or later.
6. Support for OCI cloud regions and customer dedicated regions (DRCC) in OCI requires NetBackup 10.4 or later.

NetBackup Snapshot Manager In-Cloud Data Protection - Database Applications

NetBackup Snapshot Manager In-Cloud Data Protection support for database applications is listed in the tables below, organized by vendor.

Microsoft SQL

Microsoft SQL - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"> Supported with SQL Server standalone instance on non-system drives. Supported with SQL running on the following cloud instance types: <ul style="list-style-type: none"> - Amazon Web Services: t2.large/t3.large or later - Microsoft Azure: Standard D4s v3 or later (4 vCPUs, 16 GB memory) - Microsoft Azure Stack Hub: Standard D4s v3 or later/D3s v2 or later (4 vCPUs, 14 GB memory) Original location restore is not applicable for SQL AG databases. For more information on restore requirements and limitations for SQL applications, see "Restore requirements and limitations for Microsoft SQL Server" in the Veritas NetBackup Snapshot Manager Install and Upgrade Guide. For more information on restoring SQL AG databases, see "Steps required before restoring SQL AG databases" and "Additional steps required after restoring SQL AG databases" in the Veritas NetBackup Snapshot Manager Install and Upgrade Guide. For more information on configuring Microsoft SQL, see "Microsoft SQL plug-in configuration notes" in the Veritas NetBackup Snapshot Manager Install and Upgrade Guide.

Microsoft SQL - Supported Functionality

Application version	Platform	Snapshot Restore	Supported OS platforms	On-Host Agent Support	Agentless Support
2014, 2016, 2017, 2019	Amazon Web Services	Yes	Windows 2012 R2 Windows 2016 Windows 2019	Yes	Yes
2014, 2016, 2017, 2019	Google Cloud Platform	Yes	Windows 2012 R2 Windows 2016 Windows 2019	Yes	Yes
2014, 2016, 2017, 2019	Microsoft Azure	Yes	Windows 2012 R2 Windows 2016 Windows 2019	Yes	Yes
2016, 2019	Microsoft Azure Stack Hub	Yes	Windows 2012 R2 Windows 2016 Windows 2019	Yes	Yes

Oracle

Oracle - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"> Supported with Oracle standalone databases. Supported with Oracle running on the following cloud instance types: <ul style="list-style-type: none"> - Amazon Web Services: t2.large/t3.large or later - Microsoft Azure: Standard D2s v3 or later (2 vCPUs, 8 GB memory) - Microsoft Azure Stack Hub: Standard D2s v2 or later (2 vCPUs, 7 GB memory) - Oracle Cloud Infrastructure: VM.Standard.E4.Flex or later (1 OCPU, 16 GB memory) Disk-level snapshot and restore are only supported if the database resides on a non-system drive. For more information on configuring Oracle, see "Oracle plug-in configuration notes" <https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444064-141220024> in the Veritas NetBackup Snapshot Manager Install and Upgrade Guide.

Oracle - Supported Functionality

Application version	Platform	Snapshot Restore	Supported OS platforms	On-Host Agent Support	Agentless Support
12c, 18c, 19c, 21c [1]	Amazon Web Services	Yes	Red Hat Enterprise Linux 7.x Red Hat Enterprise Linux 8.2	Yes	Yes
12c, 18c, 19c	Microsoft Azure	Yes	Red Hat Enterprise Linux 7.x Red Hat Enterprise Linux 8.2	Yes	Yes
18c, 19c	Microsoft Azure Stack Hub	Yes	Red Hat Enterprise Linux 7.x Red Hat Enterprise Linux 8.2	Yes	Yes
18c, 19c	Oracle Cloud Infrastructure [2]	Yes	Oracle Enterprise Linux 8.8	Yes	Yes

- Support for Oracle 21c requires NetBackup 10.1.1 or later.
- Support requires NetBackup 10.4 or later.

Cloud Object Store Protection

With NetBackup 10.1 onwards, NetBackup can protect Azure Blob Storage and a wide variety of S3 API-compatible object stores like AWS S3, and Google Cloud Platform's object store. You can deploy the NetBackup environment in the same cloud network as the object store, or outside of it.

For more information about Cloud Object store protection, refer to the ["NetBackup™ Web UI Cloud Object Store Administrator's Guide"](https://www.veritas.com/content/support/en_US/doc/156091361-156091367-1) <https://www.veritas.com/content/support/en_US/doc/156091361-156091367-1> .

Note: Cloud vendors may levy substantial charges for data egress for moving data out of their network. Check your cloud provider pricing for data-out before configuring a backup policy that transfers data out of one cloud to another cloud region or an on-premises data center.

Cloud Object Store Protection - Considerations

Subject	Notes
Support assumptions	<ol style="list-style-type: none"> For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> . NetBackup-certified cloud regions support is listed in the vendor tables in the Cloud Storage Solutions section of this HCL. NetBackup-certified cloud object storage support is listed in the vendor tables in the Cloud Storage Solutions section of this HCL.
Storage tier considerations	NetBackup does not allow configuring all storage tiers to be protected for Cloud Object store because reading data from some of these tiers is very costly. For example, archival tiers from public cloud providers are meant for write once usage and reading data for backup from these tiers incurs a very high cost. If you still need to protect any of these tiers, please contact Veritas support to enable backup of such storage tiers.
Configuration considerations	NetBackup is configured to trust a number of well-known public Certificate Authorities (CA) related to Cloud storage. However, there are instances where, for internal purposes, you may need to add your own self-signed CA certificate. For information on adding a self-signed CA certificate, please refer to "Cloud Storage Configuration: How To Add a Self-Signed CA Certificate" < https://www.veritas.com/docs/100032993 > .

Cloud Object Store Protection - Vendor Compatibility

Table of Contents would go here (if there were any contents)!

Cloud Object Store	Supported Storage Tiers	Minimum NetBackup version supported
Amazon Simple Storage Service (S3)	STANDARD INTELLIGENT_TIERING STANDARD_IA ONEZONE_IA	10.1
Amazon GovCloud	STANDARD INTELLIGENT_TIERING STANDARD_IA ONEZONE_IA	10.1
Cloudian HyperStore Object Storage	All storage tiers	10.1
Google Cloud Storage	STANDARD NEARLINE COLDLINE	10.1

Cloud Object Store	Supported Storage Tiers	Minimum NetBackup version supported
Microsoft Azure Storage Service	Hot Cool	10.1
Hitachi Vantara Content Platform (HCP) - WAN	All storage tiers	10.1
Hitachi Vantara Content Platform (HCP) - LAN	All storage tiers	10.1
Scality RING Storage - WAN	All storage tiers	10.1
Scality RING Storage - LAN	All storage tiers	10.1
StorageGRID Webscale Object Storage	All storage tiers	10.1.1
Red Hat CEPH Storage	All storage tiers	10.1.1
Dell EMC Elastic Cloud Storage [1]	All storage tiers	10.1
STACKIT Object Storage [2]	All storage tiers	10.1
Alibaba Cloud Object Storage Service (OSS)	All storage tiers	10.3
NetApp ONTAP S3	All storage tiers	10.3
Quantum ActiveScale Systems [3]	Standard	10.3
Microsoft Azure Data Lake Storage Gen2 Service	Hot Cool	10.3
IBM Cloud Object Storage	All storage tiers	10.4
Pure Storage FlashBlade	All storage tiers	10.4
DataCore Swarm	All storage tiers	10.4

1. Requires Cloud Configuration Package version 2.10.5 or later.
2. Requires Cloud Configuration Package version 2.10.11 or later.
3. Requires Cloud Configuration Package version 2.11.1 or later.

NetBackup Appliances

NetBackup Appliances are Veritas-branded devices offering backup and deduplication solutions for enterprise environments in an appliance form factor. For more information, see the "NetBackup Appliances" <<https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/>> page.

NetBackup 5200 Series (Primary/Media Server), 5300 Series (Media Server), Virtual, and Flex Appliances

The following tables list NetBackup 5200 Series, 5300 Series, and Virtual release versions, the Appliance models supported with each version, and the NetBackup Release version on which it is based.

There is also a table listing NetBackup Flex Appliance versions, the Appliance models supported with each version, and the Primary Server and Media Server versions supported with each version.

Documentation for NetBackup Appliances is available here <<https://www.veritas.com/docs/100040113>> . Late breaking news related to NetBackup Appliances is available here <<https://www.veritas.com/docs/100003949>> .

NetBackup Appliance packages and hotfixes are available on Downloads Center <https://www.veritas.com/content/support/en_US/downloads> .

NetBackup 5300 Series - Supported Versions

NetBackup 5300 Series Appliance Release	Supported NetBackup Appliance Models	Based on NetBackup Release
5.3	5350, 5340	10.3
5.1.1	5350, 5340	10.1.1
5.0	5350, 5340, 5330	10.0
4.1	5350, 5340, 5330	9.1
4.0	5350, 5340, 5330	9.0
3.3.0.1	5340, 5330	8.3.0.1
3.2	5340, 5330	8.2
3.1.2	5340, 5330	8.1.2
3.1.1	5340, 5330	8.1.1
3.1	5340, 5330	8.1
3.0	5330	8.0

NetBackup 5200 Series - Supported Versions

NetBackup 5200 Series Appliance Release	Supported NetBackup Appliance Models	Based on NetBackup Release
5.3	5250, 5240	10.3
5.1.1	5250, 5240	10.1.1
5.0	5250, 5240	10.0
4.1	5250, 5240	9.1
4.0	5250, 5240	9.0
3.3.0.1	5250, 5240	8.3.0.1
3.2	5250 [1], 5240	8.2
3.1.2	5240	8.1.2
3.1.1	5240	8.1.1
3.1	5240	8.1
3.0	5240	8.0

1. The Veritas 5250 Appliance requires a revised version of 3.2.

NetBackup Virtual Appliance - Supported Versions

NetBackup Virtual Appliance Release	Based on NetBackup Release	Supported Platforms
5.1.1	10.1.1	vSphere 7.0
5.0	10.0	vSphere 6.7, 7.0, 7U1, 7U2
4.1	9.1	vSphere 6.5, 6.7, 7.0, 7U1
4.0	9.0	vSphere 6.0, 6.5, 6.7, 7.0
3.3.0.1	8.3.0.1	vSphere 6.0, 6.5, 6.7, 7.0
3.2	8.2	vSphere 6.0, 6.5, 6.7
3.1.2	8.1.2	vSphere 5.5, 6.0, 6.5
3.1.1	8.1.1	vSphere 5.5, 6.0, 6.5
3.1	8.1	vSphere 5.5, 6.0, 6.5
3.0	8.0	vSphere 5.5, 6.0

NetBackup Flex Appliance - Supported Versions

NetBackup Flex Appliance Release	Supported NetBackup Appliance Models	Supported NetBackup Primary Server Versions	Supported NetBackup Media Server Versions	WORM (OST Target)
4.0	5362 (Configuration A), 5360 (Configuration A, B, C), 5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5260 (Configuration A, B, C, D), 5250 (Configuration A, B, C, D, E, F), 5150	10.4, 10.3.0.1, 10.3, 10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0	10.4, 10.3.0.1, 10.3, 10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0	20.4, 19.0.1, 19.0, 18.0.1, 18.0, 17.1, 17.0, 16.0.1, 16.0 [1] [2] [3] [4] [5] [6] [7] [8] [9]
3.3	5360 (Configuration A, B, C), 5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5260 (Configuration A, B, C, D), 5250 (Configuration A, B, C, D, E, F), 5150	10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	18.0.1, 18.0, 17.1, 17.0, 16.0.1, 16.0, 15.0.2, 15.0 [10] [11] [1] [2] [3] [4] [5] [6]
3.2	5360 (Configuration A, B, C), 5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5260 (Configuration A, B, C, D), 5250 (Configuration A, B, C, D, E, F), 5150	10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	18.0.1, 18.0, 17.1, 17.0, 16.0.1, 16.0, 15.0.2, 15.0 [10] [11] [1] [2] [3] [4] [5] [6]
3.1	5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5250 (Configuration A, B, C, D, E, F), 5150	10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	10.2.0.1, 10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	18.0.1, 18.0, 17.1, 17.0, 16.0.1, 16.0, 15.0.2, 15.0 [10] [11] [1] [2] [3] [4] [5] [6]
3.0	5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5250 (Configuration A, B, C, D, E, F), 5150	10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	10.2, 10.1.1, 10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1	18.0, 17.1, 17.0, 16.0.1, 16.0, 15.0.2, 15.0 [10] [11] [1] [2] [3] [4] [5]
2.1.2	5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5250 (Configuration A, B, C, D, E, F), 5150	10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	17.0, 16.0.1, 16.0, 15.0.2, 15.0, 14.0.1, 14.0, 13.0.2, 13.0.1.1 [12] [13] [14] [10] [11] [1] [2] [3]
2.1.1	5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5250 (Configuration A, B, C, D, E, F), 5150	10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	10.1, 10.0.0.1, 10.0, 9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	17.0, 16.0.1, 16.0, 15.0.2, 15.0, 14.0.1, 14.0, 13.0.2, 13.0.1.1 [12] [13] [14] [10] [11] [1] [2] [3]
2.1	5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5250 (Configuration A, B, C, D, E, F), 5150	10.0.0.1, 10.0, 9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	10.0.0.1, 10.0, 9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	16.0.1, 16.0, 15.0.2, 15.0, 14.0.1, 14.0, 13.0.2, 13.0.1.1 [12] [13] [14] [10] [11] [1] [2]
2.0.1	5350 (Configuration A, B, C), 5340 (Configuration A, B, C, D, E, F, G, H, J), 5250 (Configuration A, B, C, D, E, F), 5150	9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	9.1.0.1, 9.1, 9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1	15.0.2, 15.0, 14.0.1, 14.0, 13.0.2, 13.0.1.1 [12] [13] [14] [10] [11]
2.0	5340 (Configuration A, B, C, D, E, F, G, H, J), 5150	9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1, 8.2	9.0.0.1, 9.0, 8.3.0.2, 8.3.0.1, 8.2	14.0.1, 14.0, 13.0.2, 13.0.1.1 [12] [13] [14]
1.3.1	5340 (Configuration A), 5150	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 [15]	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 [15]	Not supported
1.3	5340 (Configuration A), 5150	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 [15]	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 [15]	Not supported

1. WORM storage server version 16.0 requires NetBackup primary and media server version 10.0 or later.
2. WORM storage server version 16.0.1 requires NetBackup primary and media server version 10.0.0.1 or later.
3. WORM storage server version 17.0 requires NetBackup primary and media server version 10.1 or later.
4. WORM storage server version 17.1 requires NetBackup primary and media server version 10.1.1 or later.
5. WORM storage server version 18.0 requires NetBackup primary and media server version 10.2 or later.
6. WORM storage server version 18.0.1 requires NetBackup primary and media server version 10.2.0.1 or later.
7. WORM storage server version 19.0 requires NetBackup primary and media server version 10.3 or later.
8. WORM storage server version 19.0.1 requires NetBackup primary and media server version 10.3.0.1 or later.
9. WORM storage server version 20.4 requires NetBackup primary and media server version 10.4 or later.
10. WORM storage server version 15.0 requires NetBackup primary and media server version 9.1 or later.
11. WORM storage server version 15.0.2 requires NetBackup primary and media server version 9.1.0.1 or later.

12. WORM storage server version 13.0.2 requires NetBackup primary and media server version 8.3.0.2 or later.
13. WORM storage server version 14.0 requires NetBackup primary and media server version 9.0 or later.
14. WORM storage server version 14.0.1 requires NetBackup primary and media server version 9.0.0.1 or later.
15. Veritas strongly recommends running NetBackup 8.2 or later with Flex Appliance.

Configuring Cloud Solutions with NetBackup Appliances

The table below shows when a NetBackup cloud configuration and device mappings RPM package is required for configuring cloud providers with NetBackup Appliances. "Included in release" means that version of the NetBackup Appliance software contains the information needed for configuring that cloud provider, so installing an RPM is not required.

Configuration for the cloud storage provider must be done using the Cloud Storage Configuration wizard in the NetBackup Administration Console. After this configuration is completed, you must manually create a backup policy for the deduplication (MSDP) pool catalog. For details, see the ["NetBackup 52xx Appliance Initial Configuration Guide"](https://www.veritas.com/content/support/en_US/doc/101879532-144488363-0/index) <https://www.veritas.com/content/support/en_US/doc/101879532-144488363-0/index> .

When to install a Cloud Configuration/Device Mappings RPM for NetBackup Appliance

Cloud solution	NetBackup Appliances running 5.0
ACP CS3 (S3)	Included in release
Alibaba Cloud Object Storage Service (OSS) (S3)	Included in release
Amazon Glacier (S3)	Included in release
Amazon Glacier Deep Archive (S3)	Included in release
Amazon Glacier Instant Retrieval (IR) (S3)	Included in release
Amazon GovCloud Glacier (S3)	Included in release
Amazon GovCloud Glacier Deep Archive (S3)	Included in release
Amazon GovCloud Glacier Instant Retrieval (IR) (S3)	Included in release
Amazon GovCloud Simple Storage Service (S3)	Included in release
Amazon GovCloud Simple Storage Service - Infrequent Access (S3)	Included in release
Amazon Simple Storage Service (S3)	Included in release
Amazon Simple Storage Service - Infrequent Access (S3)	Included in release
Amazon Simple Storage Service - OneZone-Infrequent Access (S3)	Included in release
AT&T Cloud Storage (S3)	Included in release
China Mobile CMCC Cloud Storage (S3)	Included in release
China Telecom OOS (S3)	Included in release
Chunghwa Telecom Hicloud S3 (S3)	Included in release
Cloudian HyperStore Object Storage (S3)	Included in release
Dell EMC Elastic Cloud Storage (S3)	Included in release
Dell EMC Isilon PowerScale series (S3)	Included in release
Deutsche Telekom Open Telekom Cloud (S3)	Included in release
Fujitsu ETERNUS CD10000 (S3)	Included in release
Google Cloud Storage - Multi-Regional (S3)	Included in release
Google Cloud Storage - Regional (S3)	Included in release

When to install a Cloud Configuration/Device Mappings RPM for NetBackup Appliance

Cloud solution	NetBackup Appliances running 5.0
Google Cloud Storage Archive (S3)	Included in release
Google Cloud Storage Coldline (S3)	Included in release
Google Cloud Storage Nearline (S3)	Included in release
Hewlett Packard Enterprise Cloud Volumes (S3)	Included in release
Hitachi Vantara Content Platform (HCP) (S3)	Included in release
Hitachi Vantara HCP for Cloud Scale (S3)	Included in release
IBM Cloud Object Storage - Cold Vault (S3)	Included in release
IBM Cloud Object Storage - Private (S3)	Included in release
IBM Cloud Object Storage - Smart Tier (S3)	Included in release
IBM Cloud Object Storage - Standard (S3)	Included in release
IBM Cloud Object Storage - Vault (S3)	Included in release
Infoniq SWISS3CLOUD (S3)	Included in release
Microsoft Azure (Azure)	Included in release
Microsoft Azure Germany (Azure)	Included in release
Microsoft Azure Government (Azure)	Included in release
NEC Cloud IaaS (S3)	Included in release
NEC HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) (S3)	Included in release
NEC HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) (S3)	Included in release
NetApp StorageGRID Webscale Object Storage (S3)	Included in release
NooBaa (S3)	Included in release
Nutanix Objects (S3)	Included in release
Oracle Cloud Infrastructure (S3)	Included in release
Orange Business Services Flexible Engine OBS (S3)	Included in release
Quantum Active Archive and ActiveScale Systems - Glacier (S3)	Included in release
Quantum Active Archive and ActiveScale Systems - Standard (S3)	Included in release
Red Hat Ceph Storage (S3)	Included in release
Scality RING Storage (S3)	Included in release
Seagate Lyve Cloud (S3)	Included in release
SUSE Enterprise Storage (S3)	Included in release
SwiftStack Object Storage (S3)	Included in release

When to install a Cloud Configuration/Device Mappings RPM for NetBackup Appliance

Cloud solution	NetBackup Appliances running 5.0
Telefonica Open Cloud (S3)	Included in release
Tencent Cloud Object Storage (COS) - ARCHIVE (S3)	Included in release
Tencent Cloud Object Storage (COS) - DEEP ARCHIVE (S3)	Included in release
Tencent Cloud Object Storage (COS) - Archive (S3)	Included in release
Tencent Cloud Object Storage (COS) - Standard IA (S3)	Included in release
Veritas Alta Recovery Vault Amazon S3	Included in release. WORM support requires the Emergency Engineering Binaries in this bundle: Veritas Alta Recovery Vault for NetBackup 10.0 <https://www.veritas.com/content/support/en_US/downloads/update.UPD179558>
Veritas Alta Recovery Vault Amazon GovCloud	Included in release. WORM support requires the Emergency Engineering Binaries in this bundle: Veritas Alta Recovery Vault for NetBackup 10.0 <https://www.veritas.com/content/support/en_US/downloads/update.UPD179558>
Veritas Alta Recovery Vault Azure	Included in release
Veritas Alta Recovery Vault Azure Government	Included in release
Veritas Access (S3)	Included in release
Veritas Access 3340/3350 Appliance (S3)	Included in release
Wasabi Hot Cloud Storage (S3)	Included in release

NetBackup 5200 Series, 5300 Series, and Virtual Appliance Supported Functionality

The following table lists NetBackup 5200 Series, 5300 Series, and Virtual Appliance supported functionality and indicates the minimum NetBackup Appliance Release version (4.0 or later) required for support of that functionality. NetBackup 5200 Series, 5300 Series, and Virtual Appliances can be used with all supported core NetBackup clients (see the "[NetBackup 10.0 - 10.x.x Operating System Software Compatibility List](https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf)" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> , application and database agents "[NetBackup 10.0 - 10.x.x Database and Application Agent Compatibility List](https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_DBSCCL&requestType=pdf)" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_DBSCCL&requestType=pdf> , and Snapshot client configurations.

For information on functionality supported with earlier versions of NetBackup Appliances, see the NetBackup Appliances section of the [NetBackup Enterprise Server and Server 9.0 - 9.x.x Hardware and Cloud Storage Compatibility List](https://www.veritas.com/content/support/en_US/doc/NB_90_HCL) <https://www.veritas.com/content/support/en_US/doc/NB_90_HCL> .

NetBackup 5200 Series, 5300 Series, and Virtual Appliances - Supported Functionality

Functionality	Minimum 5.0 or later Appliance Release	Supported Appliance Models	Notes
NetBackup Primary/Media Server	5.0	5200 Series, Virtual	The Primary Server role is only supported on 5200 Series and Virtual Appliances. Key Management Service (KMS) and NetBackup Access Control (NBAC) are not supported when the Appliance is configured as a Primary Server.
NetBackup Media Server	5.0	5200 Series, 5300 Series, Virtual	The Primary Server in the NetBackup domain must be running a version of NetBackup equal to or newer than the NetBackup version on which the appliance is based.
NetBackup CloudCatalyst Appliance			This role is not supported with version 4.0 and later.
Accelerator (for files and folders)	5.0	5200 Series, 5300 Series, Virtual	
Accelerator with NDMP	5.0	5200 Series, 5300 Series, Virtual	Supported with Dell EMC Isilon Scale-Out NAS filers, and NetApp AFF, FAS, and V series filers. When using this feature with a NetBackup Virtual Appliance, monitor the /dev/mapper/system-log partition to ensure it does not exceed 50% of capacity, and manage log files to increase remaining partition capacity. For information on managing accelerator track log files, see " About the track log for Accelerator for NDMP " < https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v106584292-131831692 > . For more information on this feature, see the " About NetBackup Accelerator for NDMP " < https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692 > .
Accelerator with VMware-type policies	5.0	5200 Series, 5300 Series, Virtual	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Ethernet	5.0	5200 Series, 5300 Series, Virtual	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Fibre Channel (FC)	5.0	5200 Series, 5300 Series	

NetBackup 5200 Series, 5300 Series, and Virtual Appliances - Supported Functionality

Functionality	Minimum 5.0 or later Appliance Release	Supported Appliance Models	Notes
Client Deduplication / Client Direct over Ethernet	5.0	5200 Series, 5300 Series, Virtual	Veritas allows NetBackup Clients to write data directly to NetBackup Storage Server Appliances. The client hosts the deduplication plug-in that deduplicates the backup data. The plug-in sends only unique segments to the Storage Server, reducing network traffic and distributing CPU load. For the list of supported clients, see the "Deduplication Supported Operating Systems" section of the " NetBackup 10.0 - 10.x.x Operating System Software Compatibility List " < https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf > . Data Immutability/WORM is supported with Client Direct with NetBackup Appliances running version 4.1 and later.
Copilot for Oracle	5.0	5200 Series, 5300 Series, Virtual	For more information on this feature, see the " NetBackup Copilot for Oracle Configuration Guide " < https://www.veritas.com/content/support/en_US/doc/114308232-126559107-0/index > .
Fibre Transport Media Server	5.0	5200 Series, 5300 Series	Supported with 8 Gb HBAs in NetBackup 5240, 5250, 5330, and 5340 Appliances. Supported with 16 Gb HBAs in NetBackup 5240, 5250, 5340, and 5350 Appliances.
FIPS-compliant encryption	5.0	5200 Series, 5300 Series, Virtual	FIPS-compliant encryption, as defined by the Federal Information Processing Standards 140-2, can be enabled from the NetBackup Shell Menu. For more information, see the " NetBackup Appliance Security Guide " < https://www.veritas.com/support/en_US/doc/96220900-132543872-0/index > .
Granular Recovery Technology (GRT)	5.0	5200 Series, 5300 Series, Virtual	
Granular Recovery Technology (GRT) with VMware-type policies	5.0	5200 Series, 5300 Series, Virtual	Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint.
Instant Data Access	5.0	5200 Series, 5300 Series	This feature allows you to create an Instant Access VM from a NetBackup backup image. The VM is available almost instantaneously, achieving a near-zero recovery time objective. NetBackup mounts the VM snapshot directly on the backup storage device to allow your ESXi host or cluster to treat the snapshot as a normal VM. For more information, see the " NetBackup Web UI VMware Administrator's Guide " < https://www.veritas.com/content/support/en_US/doc/130706365-133278128-0/index > .
Instant Recovery for VMware	5.0	5200 Series, 5300 Series, Virtual	Support for restoring virtual machines with Instant Recovery is described in the " NetBackup for VMware Administrator's Guide " < https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index > . For details on supported platforms for instant recovery restore hosts, see " Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments " < https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE > .
iSCSI Initiator - Hardware-assisted with TCP Offload Engine (TOE) card	5.0	5240 (Configuration H), 5340 (Configurations A, B, C, D, and E)	Supports backup of VMware virtual machines using VADP with SAN transport. For more information on this feature, see the " NetBackup Appliance iSCSI Guide " < https://www.veritas.com/content/support/en_US/doc/122285129-130445102-0/index > and the " NetBackup for VMware Administrator's Guide " < https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index > .
Key Management Service (KMS)	5.0	5200 Series, 5300 Series	KMS is supported with Appliances configured as either a Primary or a Media Server. With a NetBackupCLI administrator account in the NetBackup Appliance Shell Menu, an Appliance Primary Server can administrate KMS with tape devices connected to itself or another NetBackup Appliance. Regenerating the data encryption key is the only supported method of recovering KMS on an Appliance Primary Server.
NetBackup Access Control (NBAC)	5.0	5200 Series, 5300 Series	Supported when the Appliance is configured as a Media Server only. Not supported when the Appliance is configured as a Primary Server.

NetBackup 5200 Series, 5300 Series, and Virtual Appliances - Supported Functionality

Functionality	Minimum 5.0 or later Appliance Release	Supported Appliance Models	Notes
NDMP	5.0	5200 Series, 5300 Series, Virtual	Supported NDMP solutions are listed in the NDMP devices Vendor Compatibility section.
NetBackup Cluster			There are no plans to support this feature.
NetBackup OpenStorage Cloud and Third-Party Plug-in Support	5.0	5200 Series, 5300 Series, Virtual	Supported plug-ins are listed in the "Support with NetBackup Appliance" tables shown in the OST Cloud and OST Storage Servers Vendor Compatibility sections. For instructions on installing vendor plug-in packages on NetBackup Appliances, see " About OpenStorage plugin installation " < https://www.veritas.com/content/support/en_US/doc/75895731-133007275-0/v66702930-133007275 > .
NFSv4	5.0	5200 Series, 5300 Series, Virtual	All shares exported by the appliance can be mounted using NFSv4, including system shares and backup shares such as Universal shares and Copilot shares.
OpsCenter	5.0	5200 Series, 5300 Series, Virtual	
OpsCenter Managed Server	5.0	5200 Series, 5300 Series, Virtual	
Optimized Duplication (Opt_Dup) over Ethernet	5.0	5200 Series, 5300 Series, Virtual	Supported from 5200/5300 Series/Virtual to 5200/5300 Series/Virtual (MSDP to MSDP).
Optimized Duplication (Opt_Dup) over Fibre Channel (FC)	5.0	5200 Series, 5300 Series	Supported from 5200/5300 Series to 5200/5300 Series (MSDP to MSDP)
Optimized Synthetics (Opt_Synth)	5.0	5200 Series, 5300 Series, Virtual	
Tape Drive Support	5.0	5200 Series, 5300 Series	Supported tape drives are listed in the "Support with NetBackup Appliance" tables shown in the Tape Drives Vendor Compatibility section. Shared Storage Option (SSO) is supported.
Tape Library Support	5.0	5200 Series, 5300 Series	Supported tape libraries are listed with the notes "This library is also supported with NetBackup 5200 Series and 5300 Series Appliances" and "This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter" in the Tape Libraries Vendor Compatibility section. Use the NetBackup Device Configuration Wizard within the NetBackup Administration Console to configure robots and tape drives on the NetBackup Appliance.
Universal Shares	5.0	5200 Series, 5300 Series	For more information on configuring Universal Shares, see Manage > Storage > Universal Shares < https://www.veritas.com/content/support/en_US/doc/75895731-130448786-0/v127187279-130448786 >
Virtual Tape Library (VTL) Support	5.0	5200 Series, 5300 Series	Supported VTLs are listed in the "Support with NetBackup Appliance" tables shown in the Virtual Tape Libraries Vendor Compatibility section. Use the NetBackup Device Configuration Wizard within the NetBackup Administration Console to configure VTLs and emulated tape drives on the NetBackup Appliance.

Snapshot Solutions

NetBackup protects snapshots with the following features: NetBackup Snapshot Manager, Replication Director, and Snapshot Client.

NetBackup Snapshot Manager

For more information about configuring NetBackup snapshot manager for storage array snapshots, refer to the "[NetBackup™ Snapshot Manager for Data Center Administrator's guide](https://www.veritas.com/content/support/en_US/doc/155729295-155729314-1)" <https://www.veritas.com/content/support/en_US/doc/155729295-155729314-1> .

For information on hardware and cloud applications that are compatible with earlier versions of NetBackup Snapshot Manager (CloudPoint), see the CloudPoint compatibility lists at [NetBackup Compatibility](http://www.netbackup.com/compatibility) <<http://www.netbackup.com/compatibility>>

NetBackup Snapshot Manager - Considerations

Subject	Notes
Vendor support considerations	<ol style="list-style-type: none"> 1. All storage configurations shown in the tables below were tested with drivers and firmware supported by the storage array vendors. Check with these vendors for minimum driver and firmware levels, specific driver and firmware support, support for the stated Veritas products, and other functional options. 2. Veritas supports hardware products listed below that include virtualization capability, but Veritas does not support compatibility issues that can be attributed to the virtualization feature. Veritas requires any compatibility issue to be reproduced in a non-virtualization environment. If the issue is confirmed to be related to Veritas products, Veritas will support its software at the same level as when that software is not running with hardware virtualization products. Veritas will cooperate with virtualization vendors, and attempt to assist in the diagnosis of problems found between the virtualization and Veritas products. 3. Minor ("double-dot") versions of the software listed in the tables below are also supported. (Example: "v5.0" means versions v5.0.1, v5.0.2, etc. are also supported.)
General considerations	With NetBackup 10.1 onwards, NetBackup CloudPoint is renamed as NetBackup Snapshot Manager.
Consistency Group Snapshots	NetBackup Snapshot Manager support consistency group (CG) snapshots for SAN storage arrays wherever CG level snapshot is optimal and applicable. The supported hardware table below mentions whether NetBackup Snapshot Manager performs CG level snapshot for a particular storage array vendor or not.
Storage Array Replication	With NetBackup 10.1 onwards, NetBackup Snapshot Manager can replicate the NAS storage array snapshots that are taken by NetBackup. You must upgrade the NetBackup primary server, media server, and clients to version 10.1 and above to use the replication capabilities. Refer to the " NetBackup™ Snapshot Manager for Data Center Administrator's guide " < https://www.veritas.com/content/support/en_US/doc/155729295-155729314-1 > for more details about replication.
Considerations and Limitations	Refer to the appropriate storage array plug-in section from Storage array plug-ins chapter in " NetBackup™ Snapshot Manager for Data Center Administrator's guide " < https://www.veritas.com/content/support/en_US/doc/155729295-155729314-1 > .

NetBackup Snapshot Manager - Vendor Compatibility

Contents

Dell EMC	Fujitsu	Hewlett Packard Enterprise
Hitachi Vantara	IBM	Infinidat
Lenovo	NetApp	Nutanix
Pure Storage	Qumulo	

Dell EMC

Dell EMC - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
PowerFlex series	PowerFlex 3.6 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
PowerMax series	Unisphere v9.2 and later Array microcode version 5968.669.669 or later	SAN: Fibre Channel	No	Yes	DB2, Oracle, Standard
PowerScale series	OneFS 8.0 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection, VMware
PowerStore series	PowerStore OS Version 2.0 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard
PowerStore series	PowerStore OS Version 2.0.1.2 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection, VMware
Unity series	Unity Operating Environment 4.2 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard
Unity series	Unity Operating Environment 4.2 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection, VMware
XtremIO series	XMS version 6.0.1 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard

Dell EMC - Family Membership

Device Family	Members	Vendor website
XtremIO series	XtremIO x2	Introduction to Dell EMC XtremIO X2 Storage Array <https://www.delltechnologies.com/asset/en-us/products/storage/industry-market/h16444-introduction-xtremio-x2-storage-array-wp.pdf>
PowerFlex series	PowerFlex R640, R740xd, R840	Dell PowerFlex <https://www.dell.com/en-us/dt/storage/powerflex.htm>
PowerMax series	PowerMax 2000, PowerMax 8000	Dell PowerMax <https://www.delltechnologies.com/en-us/storage/powermax.htm>
PowerScale series	PowerScale A300, PowerScale A3000, PowerScale F200, PowerScale F600, PowerScale F900, PowerScale H700, PowerScale H7000, Isilon A200, Isilon A2000, Isilon F800, Isilon F810, Isilon H400, Isilon H500, Isilon H600, Isilon H5600	Dell PowerScale <https://www.delltechnologies.com/en-us/storage/powerscale.htm>
PowerStore series	PowerStore 1000T, PowerStore 3000T, PowerStore 5000T, PowerStore 7000T, PowerStore 9000T	Dell PowerStore <https://www.dell.com/no-no/dt/storage/powerstore-storage-appliance.htm>
VMAX All Flash series	VMAX All Flash 250F, VMAX All Flash 950F	Dell VMAX All Flash Storage <https://www.delltechnologies.com/en-us/storage/vmax-all-flash.htm>
VMAX3 series	VMAX3 100K, VMAX3 200K, VMAX3 400K	Dell EMC VMAX3 Family Product Guide <https://www.delltechnologies.com/asset/en-us/products/storage/technical-support/docu59438.pdf>

Dell EMC - Family Membership

Device Family	Members	Vendor website
Unity series	Unity 300, Unity 300F, Unity 350F, Unity 400, Unity 400F, Unity 450F, Unity 500, Unity 500F, Unity 550F, Unity 600, Unity 600F, Unity 650F	Dell Unity <https://www.dellemc.com/en-us/storage/unity.htm>

Fujitsu

Fujitsu - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
Fujitsu Eternus AF/DX Series	Fujitsu Controller Firmware Version V11L40 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Fujitsu Eternus AB/HB Series [1]	SANtricity Storage Manager 11.4	SAN: Fibre Channel, iSCSI	No	No	Standard

1. Fujitsu Eternus AB/HB Series is supported from NetBackup 10.3

Fujitsu - Family Membership

Device Family	Members	Vendor website
Fujitsu AF/DX Series	AF250S3, DX200S5	Fujitsu ETERNUS Storage <https://sp.ts.fujitsu.com/dmsp/Publications/public/P2X0-1261-EN.pdf>
Fujitsu AB/HB Series	AB2100, AB3100, AB5100, AB6100, HB1100/HB1200, HB2100/HB2200/HB2300, HB5100/HB5200	Fujitsu ETERNUS Storage <https://www.fujitsu.com/global/products/computing/storage/all-flash-hybrid.html>

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
3PAR F-Class/T-Class series	RMC 6.0 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard
3PAR StoreServ Storage series	RMC 6.0 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard
Nimble Storage series	RMC 6.2 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Primera series	RMC 6.2 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
XP series	HPE Configuration Manager version 10.0 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Alletra 6000 [1]	6.0.0.500-1005932-opt	SAN: Fibre Channel, iSCSI	No	No	Standard
Alletra 9000 [2]	9.5.1.2	SAN: Fibre Channel, iSCSI	No	No	Standard
GreenLake for Block Storage [3]	10.2.0.25	SAN: Fibre Channel, iSCSI	No	No	Standard

1. Alletra 6000 is supported from NetBackup 10.2
2. Alletra 9000 is supported from NetBackup 10.1.1
3. HPE GreenLake for Block Storage is supported from NetBackup 10.4

Hewlett Packard Enterprise - Family Membership

Device Family	Members	Vendor website
3PAR F-Class/T-Class series	3PAR F200 Storage, 3PAR F400 Storage, 3PAR T400 Storage, 3PAR T800 Storage	HPE 3PAR F200 and F400 Storage Systems < https://www.hpe.com/psnow/doc/a50002982enw.pdf?jumpid=in_pdfviewer-psnow > HP 3PAR T-Class Storage System < https://www.hpe.com/psnow/doc/c04164483 >
3PAR StoreServ Storage series	3PAR StoreServ 7200 Storage, 3PAR StoreServ 7400 Storage, 3PAR StoreServ 7450 Storage, 3PAR StoreServ 8200 Storage, 3PAR StoreServ 8400 Storage, 3PAR StoreServ 8440 Storage, 3PAR StoreServ 8450 Storage, 3PAR StoreServ 10400 Storage, 3PAR StoreServ 10800 Storage, 3PAR StoreServ 20450 Storage, 3PAR StoreServ 20800 Storage, 3PAR StoreServ 20850 Storage	HPE 3PAR StoreServ Storage < https://www.hpe.com/us/en/storage/3par.html >
Primera 600 series	Primera 630, Primera 650, Primera 670	HPE Primera < https://www.hpe.com/us/en/storage/hpe-primera.html >
Nimble Storage series	AF20Q, AF20, AF40, AF60, AF80, AFS3, HF20/HF20C, HF20H, HF40/HF40C, HF60/HF60C, ES3	HPE Nimble Storage < https://www.hpe.com/us/en/storage/nimble.html >
XP series	XP7, XP8	HPE XP STORAGE ARRAYS < https://www.hpe.com/us/en/storage/enterprise-xp-storage.html >

Hitachi Vantara

Hitachi Vantara - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
Virtual Storage Platform 5000 Series	Hitachi Configuration Manager (HCM) 8.6 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Virtual Storage Platform E Series	Hitachi Configuration Manager (HCM) 8.6 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Virtual Storage Platform F Series	Hitachi Configuration Manager (HCM) 8.6 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Virtual Storage Platform G Series	Hitachi Configuration Manager (HCM) 8.6 and later	SAN: Fibre Channel, iSCSI	No	No	DB2, Oracle, Standard
Hitachi NAS (HNAS)	System Management Unit (SMU) 13.5.5336.02 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection, VMware

Hitachi Vantara - Family Membership

Device Family	Members	Vendor website
Virtual Storage Platform 5000 series	VSP 5100, VSP 5200, VSP 5500, VSP 5600	Hitachi Virtual Storage Platform 5000 Series < https://www.hitachivantara.com/en-us/products/storage/flash-storage/enterprise/vsp-5000-series.html >
Virtual Storage Platform E series	VSP E590, VSP E790, VSP E990	Hitachi Virtual Storage Platform E Series < https://www.hitachivantara.com/en-us/products/storage/flash-storage/vsp-e-series.html >
Virtual Storage Platform F series	VSP F350, VSP F370, VSP F400, VSP F600, VSP F700, VSP F800, VSP F900, VSP F1500	Hitachi Virtual Storage Platform F Series < https://www.hitachivantara.com/en-us/pdf/specifications/vsp-f-series-family-matrix-product-line-card.pdf >
Virtual Storage Platform G series	VSP G100, VSP G130, VSP G150, VSP G200, VSP G350, VSP G370, VSP G400, VSP G600, VSP G700, VSP G800, VSP G900, VSP G1000, VSP G1500	Hitachi Virtual Storage Platform G Series < https://www.hitachivantara.com/en-us/pdf/datasheet/vsp-g-series-hybrid-flash-cloud-solutions-datasheet.pdf >
Hitachi NAS (HNAS) series	HNAS 4060, HNAS 4080, HNAS 4100, HNAS 5200, HNAS 5300	Hitachi NAS Platform < https://www.hitachivantara.com/en-in/products/storage/network-attached-storage/nas-platform.html >

IBM

IBM - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
Storwize V7000 series	Storwize V7000 8.3x and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard

IBM - Family Membership

Device Family	Members	Vendor website
Storwize V7000 series	Storwize V7000 Gen1, Storwize V7000 Gen2, Storwize V7000 Gen2+, Storwize V7000 Gen3	IBM Storwize V7000 < https://www.ibm.com/docs/en/flashsystem-7x00/8.3.x?topic=83x-storwize-v7000 >

Infinidat

Infinidat - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
InfiniBox series	InfiniBox 4.0 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard

Infinidat - Family Membership

Device Family	Members	Vendor website
InfiniBox series	F2200, F2300, F4200, F4300, F6200, F6300	InfiniBox <https://infinidat.com/products-technology/infinibox>

Lenovo

Lenovo - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
ThinkSystem DM series [1]	Data ONTAP 9.4 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard
ThinkSystem DM series [1]	Data ONTAP 9.4 and later	NAS: NFS, SMB	Yes [2]	N/A	NAS-Data-Protection, VMware

1. Lenovo ThinkSystem DM series is supported from NetBackup 10.3
2. Replication feature is supported with Data ONTAP version 9.x and above.

Lenovo - Family Membership

Device Family	Members	Vendor website
ThinkSystem DM series	DM7100F, DM5100F, DM5000F, DM5000H, DM3000H	ThinkSystem DM series < https://www.lenovo.com/in/en/data-center/storage/unified-storage/thinksystem-dm-series/c/thinksystem-dm-series >

NetApp

NetApp - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
AFF and FAS series	Data ONTAP 8.3.2 and later	SAN: Fibre Channel, iSCSI	No	Yes	DB2, Oracle, Standard
AFF and FAS series	Data ONTAP 8.3.2 and later	NAS: NFS, SMB	Yes [1]	N/A	NAS-Data-Protection, VMware
E5600 [2]	SANtricity Storage Manager 11.4	SAN: Fibre Channel, iSCSI	No	No	Standard
EF300SASExpansion [2]	SANtricity OS Software 68.72.49.84	SAN: Fibre Channel, iSCSI	No	No	Standard
Cloud Volume ONTAP (CVO) AWS [3]	ONTAP 9.13.1 and later	NAS: NFS, SMB	Yes	N/A	NAS-Data-Protection
Cloud Volume ONTAP (CVO) Azure [4]	ONTAP 9.13.1 and later	NAS: NFS, SMB	Yes	N/A	NAS-Data-Protection
Amazon FSx for NetApp ONTAP [5]	ONTAP 9.10 and later	NAS: NFS, SMB	Yes	N/A	NAS-Data-Protection
Amazon FSx for NetApp ONTAP [5]	ONTAP 9.10 and later	SAN: iSCSI	No	No	Standard

1. Replication feature is supported with Data ONTAP version 9.x and above.
2. NetApp E-series is supported from NetBackup 10.1.1.
3. Cloud Volume ONTAP (CVO) AWS is supported from NetBackup 10.3.0.1.
4. Cloud Volume ONTAP (CVO) Azure is supported from NetBackup 10.3.0.1.
5. Amazon FSx for NetApp ONTAP is supported from NetBackup 10.4.

NetApp - Family Membership

Device Family	Members	Vendor website
AFF series	AFF A220, AFF A400, AFF A700, AFF A800	AFF A-Series <https://www.netapp.com/data-storage/aff-a-series/>
FAS series	FAS2220, FAS2240, FAS2520, FAS2552, FAS2554, FAS2620, FAS2650, FAS2720, FAS2750, FAS8020, FAS8200, FAS9000	FAS storage systems <https://www.netapp.com/us/documentation/fas-storage-systems.aspx>

Nutanix

Nutanix - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
Nutanix Files [1]	Nutanix Files 4.2 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection

1. For more information, see [Nutanix Files Storage <https://www.nutanix.com/products/files>](https://www.nutanix.com/products/files)

Pure Storage

Pure Storage - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
FlashArray series	Purity OS 5.1 and later	SAN: Fibre Channel	No	Yes	DB2, Oracle, Standard
FlashBlade series	Purity//FB 3.0 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection, VMware

Pure Storage - Family Membership

Device Family	Members	Vendor website
FlashArray series	FA-400, FA-405, FA-420, FA-450, FlashArray//C60-366, FlashArray//C60-878, FlashArray//C60-1390, FlashArray//M10, FlashArray//M20, FlashArray//M50, FlashArray//M70, FlashArray//X10, FlashArray//X20, FlashArray//X50, FlashArray//X70, FlashArray//X90	Configuring FlashArray With Veritas CloudPoint Using Veritas CloudPoint With FlashArray
FlashBlade series	No	FlashBlade https://www.purestorage.com/products/file-and-object/flashblade.html

Qumulo

Qumulo - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Storage Array Replication	Consistency Group Snapshots	Supported NetBackup Policy Types
Qumulo Core	3.0.5 and later	NAS: NFS, SMB	No	N/A	NAS-Data-Protection, VMware

Replication Director

The NetBackup Replication Director feature offers a single NetBackup interface for end-to-end data protection for unified policy management, snapshot copy management, snapshot copy monitoring, and global search and restore.

Replication Director support information is listed below, organized by vendor. The tables provide information on the versions of software tested, supported attachment methods and functionality, and other important notes about the hardware and its compatibility.

For more information on NetBackup Replication Director, see ["About NetBackup Replication Director"](#) <https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v58079997-129889735> . This document contains links to important information about Replication Director requirements, latest issues, best practices, product documentation, limitations, and eLearning tutorial videos.

Contents

Replication Director - Considerations	Replication Director - Supported Platforms for Block-attached Storage	Replication Director - Supported Platforms for NAS-attached Storage
Replication Director - Links to Vendor Sites	Replication Director - Supported Functionality	Replication Director - Vendor Compatibility

Replication Director - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> Where support is shown for NetBackup 5200 Series or 5300 Series Appliances it means that the OST solution is supported on appliances running versions 3.2 or later, unless noted otherwise. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported. CentOS and Oracle Linux are not supported with Replication Director, unless noted otherwise. SUSE Linux Enterprise Server 12 support requires SP3 or later.
Vendor support considerations	<ol style="list-style-type: none"> In the vendor compatibility tables below, the column "Vendor Software" lists the vendor-supplied software that communicates with NetBackup OpenStorage. Refer to the storage vendor's NetBackup Replication Director site for details on the components that comprise this package. Minor versions of the vendor software listed in the tables below are also supported. (Example: Version "2.0" means versions 2.0.1, 2.0.2, 2.0p1, 2.0p2, etc. are also supported. Version "3" means versions 3.1, 3.2, 3.1p1, 3.1p2, etc. are also supported.)

Replication Director - Supported Platforms for Block-attached Storage

Replication Director is supported with block-attached storage on the NetBackup Client and Media Server platforms listed in the table below. The table indicates the NetBackup version (9.0 or later) at which that platform was first supported with block-attached storage with Replication Director. The table also lists the file systems and multipathing tools supported on each platform.

Operating System	NetBackup 10.0 (or later) Client Start of Support	NetBackup 10.0 (or later) Media Server Start of Support	File System/Volume Manager	Multipathing Tools
Red Hat Enterprise Linux 7 on x86-64	Not supported	10.0		
Solaris 10 on SPARC	10.0	This platform is not supported as a media server with NetBackup 10.0 and later	VxFS/VxVM UFS/none	VxDMP Solaris MPxIO
SUSE Linux Enterprise Server 12 on x86-64	Not supported	10.0		
Windows Server 2016 on x64	Not supported	10.0		

Replication Director - Supported Platforms for NAS-attached Storage

Replication Director is supported with NAS-attached storage on the NetBackup Client and Media Server platforms listed in the table below. The table indicates the NetBackup version (10.0 or later) at which that platform was first supported with NAS-attached storage with Replication Director.

With NAS-attached storage, Replication Director supports NFS file systems on UNIX platforms and CIFS file systems on Windows platforms.

Operating System	NetBackup 10.0 (or later) Client Start of Support	NetBackup 10.0 (or later) Media Server Start of Support
Red Hat Enterprise Linux 7 on x86-64	10.0	10.0
Solaris 10 on SPARC	10.0	This platform is not supported as a media server with NetBackup 10.0 and later
Solaris 11 on SPARC	10.0	This platform is not supported as a media server with NetBackup 10.0 and later
SUSE Linux Enterprise Server 12 on x86-64	10.0 [1]	10.0 [1]
Windows Server 2012 on x64	10.0	10.0
Windows Server 2012 R2 on x64	10.0	10.0
Windows Server 2016 on x64	10.0	10.0

1. Requires SP3 or later.

Replication Director - Links to Vendor Sites

Vendor-specific information on NetBackup Replication Director solutions is available at the storage vendor's website. The following table also contains links to Veritas Articles with information on identifying the version of the NetBackup Replication Director plug-in.

Vendor	Vendor Replication Director Solution Information/Compatibility	Vendor Software Version Information
NetApp	NetApp Interoperability Matrix Tool <https://support.netapp.com/matrix/>	"Software required to use Replication Director" < https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v88963642-129889735 >

Replication Director - Supported Functionality

The following table lists NetBackup Replication Director functionality and indicates the NetBackup version (10.0 or later) at which that functionality was first supported. For more information on Replication Director functionality, see the ["NetBackup Replication Director Solutions Guide"](https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v58079997-129889735) <https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v58079997-129889735> .

For supported versions of agents, see the ["NetBackup 10.0 - 10.x.x Database and Application Agent Compatibility List"](https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_DBSC&requestType=pdf) <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_DBSC&requestType=pdf> . The version information contained in that document also applies to databases and applications residing in VMware Virtual Machines.

For supported versions of VMware, see ["Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments"](https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE) <https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE> .

NetBackup-directed Operations	Abbreviation	NetBackup 10.0 (or later) Start of Support
Array-based Restore	Array-based_Restore	10.0

NetBackup-directed Operations	Abbreviation	NetBackup 10.0 (or later) Start of Support
Snapshot Management for File System	Snapshot_Mgmt_FS	10.0
Snapshot Replication for File System	Snapshot_Repl_FS	10.0
Snapshot Management for Oracle	Snapshot_Mgmt_Oracle	10.0
Snapshot Replication for Oracle	Snapshot_Repl_Oracle	10.0
Snapshot Management for VMware	Snapshot_Mgmt_VMware	10.0
Snapshot Replication for VMware	Snapshot_Repl_VMware	10.0
Snapshot Management for Microsoft Exchange on VMware	Snapshot_Mgmt_VMware_Exchange	10.0
Snapshot Replication for Microsoft Exchange on VMware	Snapshot_Repl_VMware_Exchange	10.0
Snapshot Management for Microsoft SQL Server on VMware	Snapshot_Mgmt_VMware_SQL	10.0
Snapshot Replication for Microsoft SQL Server on VMware	Snapshot_Repl_VMware_SQL	10.0
Snapshot Management for Oracle on NFS Storage	Snapshot_Mgmt_Oracle_NFS	10.0
Snapshot Replication for Oracle on NFS Storage	Snapshot_Repl_Oracle_NFS	10.0
Snapshot Management for VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_NFS	10.0
Snapshot Replication for VMware with NFS Attached Datastores	Snapshot_Repl_VMware_NFS	10.0
Snapshot Management for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_Exchange_NFS	10.0
Snapshot Replication for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_Exchange_NFS	10.0
Snapshot Management for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_SQL_NFS	10.0
Snapshot Replication for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_SQL_NFS	10.0

Replication Director - Vendor Compatibility

Contents

[NetApp](#)

NetApp

NetApp - Support with NetBackup Appliance

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	5200 Series	5300 Series
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.0 OnCommand Unified Manager 6.4P2 and later OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes	Yes
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.1 OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes	Yes
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.2 ONTAP 9.3 OnCommand Unified Manager 7.2 OnCommand Unified Manager 7.3 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes	Yes

NetApp - Support with NetBackup Appliance

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	5200 Series	5300 Series
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.4 ONTAP 9.5 OnCommand Unified Manager 9.4 OnCommand Unified Manager 9.5 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes	Yes
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.6 ONTAP 9.7 ActiveIQ Unified Manager 9.6 ActiveIQ Unified Manager 9.7 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes	Yes

NetApp - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter	No	7	No
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter	Datacenter	7	No

NetApp - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.0 OnCommand Unified Manager 6.4P2 and later OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter [4]	Datacenter [4]	7	No
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.1 OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter [4]	Datacenter [4]	7	No
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.2 ONTAP 9.3 OnCommand Unified Manager 7.2 OnCommand Unified Manager 7.3 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter [4]	Datacenter [4]	7	No

NetApp - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.4 ONTAP 9.5 OnCommand Unified Manager 9.4 OnCommand Unified Manager 9.5 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter [4]	Datacenter [4]	7	12
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.6 ONTAP 9.7 ActiveIQ Unified Manager 9.6 ActiveIQ Unified Manager 9.7 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Datacenter [4]	Datacenter [4]	7	12

1. Requires Clustered Data ONTAP version 8.2.3P4 or later.
2. Requires OnCommand Unified Manager version 6.2P2 or later.
3. Support for NDMP live browse requires Clustered Data ONTAP 8.3 or later.
4. Fully-qualified domain names are not supported with NFS-attached datastores on VMware.

NetApp - Support with UNIX

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Solaris on SPARC
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS	Yes	No	11 [4]
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS	Yes	No	11 [4]

1. Requires Clustered Data ONTAP version 8.2.3P4 or later.
2. Requires OnCommand Unified Manager version 6.2P2 or later.
3. Support for NDMP live browse requires Clustered Data ONTAP 8.3 or later.
4. Client support only.

Snapshot Client

This section contains Snapshot Client compatibility information for Veritas NetBackup 10.0 - 10.x.x. It covers NetBackup Server (which includes Enterprise Server and Server), Client, and Snapshot Client.

Veritas supports standard unaltered kernel/Operating System levels. Should an issue arise on a revised kernel, Operating System, or virtual system environment, Veritas support may request the recreation of the problem with the standard operating environment distribution.

Veritas InfoScale / Storage Foundation Compatibility

Veritas InfoScale/Storage Foundation file system and volume manager are supported as the Snapshot Client stack based on Operating System requirements of the InfoScale/Storage Foundation product. For specific OS compatibility information regarding InfoScale/Storage Foundation, please see "[Veritas Services and Operations Readiness Tools \(SORT\)](https://sort.veritas.com)" <<https://sort.veritas.com>> .

FlashBackup policy limitation: The NetBackup FlashBackup policy is not supported on Veritas File System (VxFS) layout versions 8 and beyond, versions 7 and earlier are supported.

Third-Party Products

When a problem may be related to product(s) from a third-party vendor with whom Veritas has a cooperative or collaborative relationship on such product(s), then Veritas will work with that vendor in an attempt to resolve the problem, but resolution is not guaranteed. When Veritas does not have such a support relationship in place with the third-party vendor, or when the vendor ceases to support such product(s), then our ability to support Veritas Licensed Software operating with such vendor's product(s) may be limited, affected, or prevented (and such third party product(s) may cease to be part of Veritas-supported configuration(s)). Veritas support may be limited by the hardware or software vendor due to their support lifecycle. Should a vendor announce End of Support for a product, Veritas support may be limited.

Oracle Agent Support

Oracle ASM Environment is not supported.

Snapshot Client - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none">1. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported.2. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.3. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.4. SUSE Linux Enterprise Server 12 support requires SP3 or later.

Snapshot Client - Vendor Compatibility

Contents

[Microsoft Volume Shadow Copy Service \(Microsoft VSS\)](#)

[Array-based Snapshot Methods](#)

[Software-based Snapshot Methods](#)

Microsoft Volume Shadow Copy Service (Microsoft VSS)

Snapshot Client - VSS Snapshot Providers Support for Microsoft Windows Considerations

Subject	Notes
Support assumptions	<ul style="list-style-type: none">- Array vendor tables have been removed from this section as Veritas NetBackup has an open support policy for Microsoft Volume Shadow Copy Service (VSS) snapshots.- Support is implied if an array vendor supplies and actively supports a VSS provider, or when using a Veritas InfoScale/Storage Foundation VxVM provider, or when using the Microsoft Default System provider.- Support includes Local, Alternate Client, FlashBackup-Windows Local, and FlashBackup-Windows Alternate Client snapshot methods.- Support extends to NetBackup application agents, Windows virtual machines using VMware RDM disks or Hyper-V Pass-Thru disks, and NetBackup for Hyper-V backups of VM snapshots.- Snapshot roll back (Snapshot Client Instant Recovery) is not supported, use the copy back method instead.- Consult with your array vendor on VSS provider availability.

Array-based Snapshot Methods

Dell EMC

Symmetrix

DMX

DMX series family membership

Array Family	Members
Symmetrix DMX series	Symmetrix DMX 1000, Symmetrix DMX 2000, Symmetrix DMX 3000, Symmetrix DMX 800, Symmetrix DMX-3, Symmetrix DMX-4

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix DMX series	Dell EMC TimeFinder Snap	Dell EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
Symmetrix DMX series	Dell EMC TimeFinder Clone	Dell EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
Symmetrix DMX series	Dell EMC TimeFinder Mirror	Dell EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM

VMAX

VMAX series family membership

Array Family	Members
Symmetrix VMAX series	Symmetrix VMAX, Symmetrix VMAXe

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix VMAX series	Dell EMC TimeFinder Snap	Dell EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	VxFS / VxVM
Symmetrix VMAX series	Dell EMC TimeFinder Clone	Dell EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	VxFS / VxVM
Symmetrix VMAX series	Dell EMC TimeFinder Mirror	Dell EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	VxFS / VxVM

Hitachi Vantara

AMS2000

AMS2000 series family membership

Array Family	Members
AMS2000 series	AMS2100, AMS2300, AMS2500

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM UFS / none
AMS2000 series	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM UFS / none

EVA6400/8400 series family membership

Array Family	Members
EVA6400/8400 series	EVA6400, EVA8400

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
EVA6400/8400 series	HPE EVA Snapclone	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Raw / None UFS / None
EVA6400/8400 series	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Raw / None UFS / None
EVA6400/8400 series	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Raw / None UFS / None

Software-based Snapshot Methods

Veritas Storage Foundation 6

Red Hat Enterprise Linux 7

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

SUSE Linux Enterprise Server 12

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap	Veritas Storage Foundation	File System	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

Oracle Solaris 10 SPARC

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
BLIB [1]	Veritas Storage Foundation	DB2 Agent Oracle Agent SAP Oracle Agent	Local Snapshot	VxFS / none VxFS / VxVM
FlashSnap	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	UFS / VxVM VxFS / VxVM
FlashSnap	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM UFS / VxVM VxFS / VxVM
nbu_snap	N/A	File System	FlashBackup Local Snapshot	UFS / none UFS / VxVM VxFS / none VxFS / VxVM

Oracle Solaris 10 SPARC

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
nbu_snap	N/A	File System Oracle Agent SAP Oracle Agent	Local Snapshot	Raw / none UFS / none UFS / VxVM VxFS / none VxFS / VxVM
VVR	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	UFS / VxVM VxFS / VxVM
VVR	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM UFS / VxVM VxFS / VxVM
VxFS_Snapshot	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / none VxFS / VxVM
VxFS_Checkpoint	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	VxFS / none VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	UFS / VxVM VxFS / VxVM
vxvm	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM UFS / VxVM VxFS / VxVM

1. Block-Level Incremental Backup. BLIB is not configured as a snapshot; but as a separate option in the policy. For more information, see the "[NetBackup Administrator's Guide](http://www.veritas.com/docs/00003214)" <<http://www.veritas.com/docs/00003214>> .

NetBackup for Kubernetes

For support with NetBackup for Kubernetes, the solution must be listed in the Container Storage Interface (CSI) driver here: [Kubernetes Container Storage Interface \(CSI\) Documentation <https://kubernetes-csi.github.io/docs/drivers.html>](https://kubernetes-csi.github.io/docs/drivers.html)
Supported on x86-64 architecture Kubernetes nodes only.

Prior to NetBackup 10.1.1

To support snapshot operations, the solution's CSI driver must list Snapshot in the Other Features column and must support apiVersion: snapshot.storage.k8s.io/v1
To support Backup from snapshot operation, the solution's CSI driver must list Raw Block and Snapshot in the Other Features column.

NetBackup 10.1.1 and onwards

NetBackup supports both Block and File mode volumes for Snapshot and Backup from snapshot operations. The solution's CSI driver must list Snapshot in the Other Features column, and must support apiVersion: snapshot.storage.k8s.io/v1

For more information on supported Kubernetes distributions, see the [NetBackup Enterprise Server and Server 10.0 - 10.x.x OS Software Compatibility List <https://download.veritas.com/resources/content/live/OSVC/100046000/100046445/en_US/nbu_100_scl.html#virtual_systems_compatibility-kubernetes_compatibility>](https://download.veritas.com/resources/content/live/OSVC/100046000/100046445/en_US/nbu_100_scl.html#virtual_systems_compatibility-kubernetes_compatibility) .

For more information on configuring Kubernetes with NetBackup, see the [NetBackup Web UI Kubernetes Administrator's Guide <https://www.veritas.com/content/support/en_US/doc/150157643-150157670-0/index>](https://www.veritas.com/content/support/en_US/doc/150157643-150157670-0/index) .

Supported Storage Vendors:

- Dell EMC
- Google Compute Engine
- Hitachi Vantara
- Hewlett Packard Enterprise
- IBM / Red Hat
- Infinidat
- NetApp
- Nexenta
- Nutanix
- Portworx
- Pure Storage
- Veritas
- VMware
- Zadara

Cloud Storage Solutions

NetBackup Cloud Storage plug-ins enable Veritas NetBackup to access Cloud Storage Solutions. Either the storage vendor or Veritas provides a software plug-in, which is installed on each NetBackup Media Server that is connected to the cloud solution.

NetBackup Cloud support information is listed in the tables below, organized by vendor. These tables provide information on supported versions of plug-ins and functionality, and other important notes about the hardware and its compatibility.

Contents

Cloud Storage - Considerations	Cloud Storage - Supported Cloud Technology Methods	Support for Workloads with Image Sharing in Cloud
Cloud Storage - Vendor Compatibility		

Cloud Storage - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf .</p> <ol style="list-style-type: none">1. In the vendor compatibility tables below, the column "NetBackup Version Containing Plug-in" indicates the NetBackup version (10.0 or later) at which that cloud storage solution was first supported.2. Community-distributed Ceph solutions are supported when using the Red Hat string. Since these solutions rely on the community, support for any issues encountered may be delayed or unavailable, depending on the nature of the issue.3. NetBackup supports AWS Outposts. For more information, please refer Veritas Tested and Validated for AWS Outposts https://www.veritas.com/news-releases/2019-12-03-veritas-tested-and-validated-for-aws-outposts
Configuration considerations	<ol style="list-style-type: none">1. NetBackup is configured to trust a number of well-known public Certificate Authorities (CA) related to Cloud storage. However, there are instances where, for internal purposes, you may need to add your own self-signed CA certificate. For information on adding a self-signed CA certificate, please refer to "Cloud Storage Configuration: How To Add a Self-Signed CA Certificate" https://www.veritas.com/docs/100032993 .2. NetBackup-provided Cloud connectors are not supported with IPv6, unless noted otherwise. Configuring these plug-ins with IPv6 may result in unpredictable behavior.

Cloud Storage - Supported Cloud Technology Methods

NetBackup supports Cloud-based storage providers using a variety of technology methods, described below.

S3 Storage

This method uses the NetBackup S3 Cloud Connector, a plug-in included with NetBackup. For more information on configuring S3 solutions, see "[About the Amazon S3 cloud storage API type](#)" https://www.veritas.com/content/support/en_US/doc/58500769-135186602-0/v121380735-135186602 .

Storage solutions using the NetBackup S3 Cloud Connector support the following functionality, unless noted otherwise:

NetBackup S3 Cloud Connector - Supported Functionality

Supported Functionality	Notes
Accelerator (for files and folders)	
Accelerator with VMware-type policies	
CloudCatalyst	<p>CloudCatalyst was deprecated in favor of MSDP Direct Cloud Tiering in NetBackup 8.3, and has been removed from NetBackup 9.0 and later versions.</p> <p>Back-level media servers running CloudCatalyst are supported with a NetBackup 9.0 or later primary server.</p>
Compression	
External Key Management Services (EKMS)	External Key Management Services can be used to encrypt backups to cloud targets. For a list of supported EKMS, see the "External Key Management Services using KMIP" section of this document.
MSDP Direct Cloud Tiering	<p>MSDP Direct Cloud Tiering supports storing data directly to cloud targets with deduplication. One MSDP cloud storage server can support both local storage and multiple cloud storage targets.</p> <p>NetBackup Media Servers running NetBackup 8.3 or later on Red Hat or CentOS can be configured as MSDP cloud storage servers.</p> <p>NetBackup Media Servers running NetBackup 10.3 or later on SUSE Linux Enterprise Server (SLES) can be configured as MSDP cloud storage servers. These features are not supported on SLES.</p> <ul style="list-style-type: none"> - Image sharing - Malware scanning - Universal share - Universal share accelerator - Instant access - S3 interface for MSDP <p>NetBackup Appliances running NetBackup Appliance 3.3 or later can be configured as MSDP cloud storage servers.</p>
NetBackup Encryption Key Management Service	NetBackup KMS can be used to encrypt backups to cloud targets.
Optimized Synthetics	Storage Lifecycle Policies are not supported in policies that use the multiple copy synthetic backups method. For details, see "Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method" < https://www.veritas.com/docs/100013288 > .
S3 Object Lock (immutable storage)	NetBackup 9.1 and later support immutable (WORM) cloud storage. For more information on configuring S3 Object Lock, "About MSDP cloud immutable (WORM) storage support" < https://www.veritas.com/content/support/en_US/doc/25074086-149019166-0/v149102574-149019166 > in the Veritas NetBackup Deduplication Guide.

Microsoft Azure Storage

This method uses the NetBackup Azure Cloud Connector, a plug-in included with NetBackup. For more information on configuring Microsoft Azure solutions, see ["About Microsoft Azure cloud storage API type" <https://www.veritas.com/content/support/en_US/doc/58500769-135186602-0/v118626392-135186602>](https://www.veritas.com/content/support/en_US/doc/58500769-135186602-0/v118626392-135186602) .

Storage solutions using the NetBackup Azure Cloud Connector support the following functionality, unless noted otherwise:

NetBackup Azure Cloud Connector - Supported Functionality

Supported Functionality	Notes
Accelerator (for files and folders)	
Accelerator with VMware-type policies	
CloudCatalyst	CloudCatalyst was deprecated in favor of MSDP Direct Cloud Tiering in NetBackup 8.3, and has been removed from NetBackup 9.0 and later versions. Back-level media servers running CloudCatalyst are supported with a NetBackup 9.0 or later primary server.
Compression	
External Key Management Services (EKMS)	External Key Management Services can be used to encrypt backups to cloud targets. For a list of supported EKMS, see the "External Key Management Services using KMIP" section of this document.
MSDP Direct Cloud Tiering	MSDP Direct Cloud Tiering supports storing data directly to cloud targets with deduplication. One MSDP cloud storage server can support both local storage and multiple cloud storage targets. NetBackup Media Servers running NetBackup 8.3 or later on Red Hat or CentOS can be configured as MSDP cloud storage servers. NetBackup Media Servers running NetBackup 10.3 or later on SUSE Linux Enterprise Server (SLES) can be configured as MSDP cloud storage servers. These features are not supported on SLES. <ul style="list-style-type: none"> - Image sharing - Malware scanning - Universal share - Universal share accelerator - Instant access - S3 interface for MSDP NetBackup Appliances running NetBackup Appliance 3.3 or later can be configured as MSDP cloud storage servers.
NetBackup Encryption Key Management Service	NetBackup KMS can be used to encrypt backups to cloud targets.
Optimized Synthetics	Storage Lifecycle Policies are not supported in policies that use the multiple copy synthetic backups method. For details, see "Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method" <https://www.veritas.com/docs/100013288> .

OST

This method uses a third-party OpenStorage Technology plug-in, provided by the storage vendor and certified by Veritas.

For a list of functionality supported with an OST plug-in, see the Vendor Compatibility table for that solution.

Advanced Disk Targets

This method uses third-party hardware or software to make the cloud appear as an [AdvancedDisk storage unit](#) to NetBackup.

For more information on AdvancedDisk solutions, see "[NetBackup AdvancedDisk Storage Solutions Guide](http://www.veritas.com/docs/100040135)" <<http://www.veritas.com/docs/100040135>> .

VTL

This method uses third-party software to present the Cloud as if it were a VTL (Virtual Tape Library) to NetBackup.

For a list of functionality supported with VTLs, see the [Virtual Tape Libraries](#) section of this HCL.

Support for Workloads with Image Sharing in Cloud

Image Sharing in Cloud is supported with MSDP Direct Cloud Tiering. Workload support is listed in the tables below.

Support for Image Sharing using MSDP Direct Cloud Tiering

Image sharing using MSDP Direct Cloud Tiering is supported with any of the S3 cloud providers listed in the Vendor Compatibility tables below, and with Microsoft Azure Blob storage.

MSDP Direct Cloud Tiering is supported with NetBackup 8.3 and later.

For more information on image sharing using MSDP Direct Cloud Tiering, see "[About Image Sharing using MSDP cloud](https://www.veritas.com/content/support/en_US/doc/25074086-138900239-0/v141214178-138900239)" <https://www.veritas.com/content/support/en_US/doc/25074086-138900239-0/v141214178-138900239> .

Image Sharing in Cloud - Supported Workloads

Workload	NetBackup 10.0 (or later) Start of Support	Notes
Basic backups of files and folders	10.0	
Bare Metal Restore (BMR)	Not supported	Duplication of images is supported. Restores can be done from another NetBackup media server.
DB2	10.0	
Enterprise Vault	10.0	
Hadoop	10.0	
Hbase	10.0	
Hyper-V	10.0	
Informix	10.0	
Lotus Notes	10.0	

Image Sharing in Cloud - Supported Workloads

Workload	NetBackup 10.0 (or later) Start of Support	Notes
MariaDB	10.0	
Microsoft Exchange Server	10.0	
Microsoft SharePoint	10.0	
Microsoft SQL Server	10.0	
MySQL	10.0	
NDMP	10.0	
Nutanix	Not supported	Duplication of images is supported. Restores can be done from another NetBackup media server.
OpenStack	Not supported	Duplication of images is supported. Restores can be done from another NetBackup media server.
Oracle	10.0	
Postgres	10.0	
RHV	10.0	
SAP	Not supported	Duplication of images is supported. Restores can be done from another NetBackup media server.
Sybase	10.0	
VMware	10.0	

Cloud Storage - Vendor Compatibility

Contents

<u>ACP</u>	<u>Alibaba</u>	<u>Amazon</u>
<u>AT&T</u>	<u>Backblaze</u>	<u>Beijing XSKY</u>
<u>Calamu</u>	<u>China Mobile</u>	<u>China Telecom</u>
<u>Chunghwa Telecom</u>	<u>Cloudian</u>	<u>DataCore</u>
<u>Dell EMC</u>	<u>Dell EMC Isilon</u>	<u>Deutsche Telekom</u>
<u>Fujitsu</u>	<u>Google</u>	<u>Hewlett Packard Enterprise</u>
<u>Hitachi Vantara</u>	<u>IBM</u>	<u>Impossible Cloud</u>
<u>Infoniga</u>	<u>Iron Mountain</u>	<u>iTernity</u>
<u>Microsoft</u>	<u>NEC</u>	<u>NetApp</u>
<u>NooBaa</u>	<u>Nutanix</u>	<u>Oracle</u>
<u>Orange Business Services</u>	<u>Pure Storage</u>	<u>Quantum</u>
<u>Red Hat</u>	<u>SandStone</u>	<u>Scality</u>
<u>Seagate</u>	<u>Spectra Logic</u>	<u>STACKIT</u>
<u>SUSE</u>	<u>SwiftStack</u>	<u>Tencent</u>
<u>VAST Data</u>	<u>Veritas</u>	<u>Wasabi</u>

ACP

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
CS3	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: http://www.acpcloud.rocks/</p>

Alibaba

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage Service (OSS)	NetBackup 10.0 and later S3 connector	No	Asia Pacific NE 1 (Tokyo), Asia Pacific SE 1 (Singapore), Asia Pacific SE 2 (Sydney), Asia Pacific SE 3 (Kuala Lumpur), Asia Pacific SE 5 (Jakarta), Asia Pacific SOU 1 (Mumbai), China East 1 (Hangzhou), China East 2 (Shanghai), China North 1 (Qingdao), China North 2 (Beijing), China North 3 (Zhangjiakou), China North 5 (Hohhot), China South 1 (Shenzhen), Germany 1 (Frankfurt), Hong Kong, Middle East 1 (Dubai), US East 1 (Virginia), US West 1 (Silicon Valley)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted</p> <p>Vendor site: https://www.alibabacloud.com/product/oss/</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier	NetBackup 10.0 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada West (Calgary), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier standard retrieval policies, which complete within 3 to 5 hours. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://aws.amazon.com/glacier/></p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier Deep Archive	NetBackup 10.0 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada West (Calgary), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier Deep Archive standard retrieval policies. For more information on times required for retrieval, see Amazon's documentation for this storage class. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://aws.amazon.com/s3/storage-classes/></p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier Instant Retrieval (IR)	NetBackup 10.0 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada West (Calgary), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier standard retrieval policies, which complete within 3 to 5 hours. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: https://aws.amazon.com/s3/storage-classes/glacier/instant-retrieval/</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
GovCloud - Glacier	NetBackup 10.0 and later S3 connector	No	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only. Only supported with the non-FIPS endpoints at this time.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time. S3 replication is not supported.</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier standard retrieval policies, which complete within 3 to 5 hours. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/govcloud-us/</p> <p>When> configuring C2S through a CAP server, use a non-encrypted client key.</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
GovCloud - Glacier Deep Archive	NetBackup 10.0 and later S3 connector	No	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only. Only supported with the non-FIPS endpoints at this time.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time. S3 replication is not supported.</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier Deep Archive standard retrieval policies. For more information on times required for retrieval, see Amazon's documentation for this storage class. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/govcloud-us/</p> <p>When> configuring C2S through a CAP server, use a non-encrypted client key.</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
GovCloud - Glacier Instant Retrieval (IR)	NetBackup 10.0 and later S3 connector	No	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only. Only supported with the non-FIPS endpoints at this time.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time. S3 replication is not supported.</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier standard retrieval policies, which complete within 3 to 5 hours. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://aws.amazon.com/s3/storage-classes/glacier/instant-retrieval/></p> <p><When> configuring C2S through a CAP server, use a non-encrypted client key.</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
GovCloud Simple Storage Service	NetBackup 10.0 and later S3 connector	Yes	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only. Only supported with the non-FIPS endpoints at this time.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time. S3 replication is not supported.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/govcloud-us/</p> <p>When> configuring C2S through a CAP server, use a non-encrypted client key.</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
GovCloud Simple Storage Service - Infrequent Access (IA)	NetBackup 10.0 and later S3 connector	Yes	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only. Only supported with the non-FIPS endpoints at this time.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time. S3 replication is not supported.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/govcloud-us/</p> <p>When> configuring C2S through a CAP server, use a non-encrypted client key.</p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Simple Storage Service (S3) Standard	NetBackup 10.0 and later S3 connector	Yes	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada West (Calgary), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>Amazon Snowball and Amazon Snowball Edge are supported with the Standard storage class. For details, see the Protecting data with Amazon Snowball and Amazon Snowball Edge <https://www.veritas.com/content/support/en_US/doc/58500769-139494412-0/v136078530-139494412> section of the Veritas NetBackup Cloud Administrator's Guide.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <http://aws.amazon.com/s3></p>
Simple Storage Service (S3) Standard - Infrequent Access (IA)	NetBackup 10.0 and later S3 connector	Yes	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada West (Calgary), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <http://aws.amazon.com/s3></p>

Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Simple Storage Service (S3) Standard - One Zone-Infrequent Access Storage	NetBackup 10.0 and later S3 connector	Yes	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada West (Calgary), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS PrivateLink connectivity is supported with MSDP Direct Cloud Tiering with S3 Object Lock.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <http://aws.amazon.com/s3></p>

AT&T

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <http://www.att.com/cloud></p>

Backblaze

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
B2 Cloud Storage	NetBackup 10.1 and later S3 connector	No	EU-CENTRAL-003, US-EAST-005, US-WEST-000, US-WEST-001, US-WEST-002, US-WEST-004	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.10.6 or later.</p> <p>S3 Object Lock: Yes, Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.11.0 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.backblaze.com/cloud-storage/integrations/veritas></p>

Beijing XSKY

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Enterprise Object Storage	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.xsky.com/en/></p>

Calamu

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Calamu Protect	NetBackup 10.1 and later S3 connector	No	All Locales, On-Premises	MSDP Direct Cloud Tiering: Yes Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.12.1 or later. S3 Object Lock: No. Secure Socket Layer (SSL): Yes Server-side encryption: No. URL style: Path Vendor site: < https://www.calamuprotect.com >

China Mobile

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
CMCC Cloud Storage	NetBackup 10.0 and later S3 connector	No	All Locales	Also supported with NetBackup Appliance 5.0 and later S3 connector. CloudCatalyst: Supported with back-level media servers only. MSDP Direct Cloud Tiering: Yes S3 Object Lock: No Secure Socket Layer (SSL): Yes Server-side encryption: No URL style: Path Vendor site: < https://ecloud.10086.cn/ >

China Telecom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
OOS	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: http://www.ctyun.cn/</p>

Chunghwa Telecom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Hicloud S3	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://hicloud.hinet.net/</p>

Cloudian

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HyperStore Object Storage	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes. Requires NetBackup 10.0.0.1 or later and Cloud Configuration Package version 2.9.5 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <http://www.cloudian.com/></p>

DataCore

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Swarm	NetBackup 10.1 and later S3 connector	No	On-Premises	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.10.5 or later.</p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.datacore.com/products/swarm-object-storage/></p>

Dell EMC

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Elastic Cloud Storage	NetBackup 10.0 and later S3 connector	No	All Locales, On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.1 or later and ECS version 3.6.2 or later.</p> <p>Secure Socket Layer (SSL): Yes. SSL is supported with ECS version 3.1 and later.</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <http://www.emc.com/storage/ecs/index.htm></p>

Dell EMC Isilon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
PowerScale series	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.delltechnologies.com/en-us/storage/powerscale.htm></p>

Deutsche Telekom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Open Telekom Cloud	NetBackup 10.0 and later S3 connector	No	EU (Germany)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: <https://cloud.telekom.de/en/></p>

Fujitsu

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
ETERNUS CD10000	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: http://www.fujitsu.com/global/products/computing/storage/eternus-cd/</p>

Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage - Multi-Regional	NetBackup 10.0 and later S3 connector	No	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.4 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://cloud.google.com/about/locations/></p>

Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage - Regional	NetBackup 10.0 and later S3 connector	No	Africa-South1, Asia-East1, Asia-East2, Asia-Northeast1, Asia-Northeast2, Asia-South1, Asia-South2, Asia-Southeast1, Australia-Southeast1, Australia-Southeast2, EU-North1, EU-Southwest1, EU-West1, EU-West10, EU-West12, EU-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, ME-Central1, ME-Central2, ME-West1, NorthAmerica-Northeast1, NorthAmerica-Northeast2, SouthAmerica-East1, US-Central1, US-East1, US-East4, US-East5, US-South1, US-West1, US-West2, US-West3, US-West4	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.4 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.9.1 or later.</p> <p>Support for the EU-Southwest1 and EU-West9 regions requires Cloud Configuration Package version 2.9.3 or later.</p> <p>Support for the US-East5 and US-South1 regions requires Cloud Configuration Package version 2.9.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://cloud.google.com/about/locations/></p>

Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Archive	NetBackup 10.0 and later S3 connector	No	Africa-South1, Asia (Multi-Regional), Asia-East1, Asia-East2, Asia-Northeast1, Asia-Northeast2, Asia-Northeast3, Asia-South1, Asia-South2, Asia-Southeast1, Asia-Southeast2, Australia-Southeast1, Australia-Southeast2, EU (Multi-Regional), EU-Central2, EU-North1, EU-Southwest1, EU-West1, EU-West10, EU-West12, EU-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, ME-Central1, ME-Central2, ME-West1, NorthAmerica-Northeast1, NorthAmerica-Northeast2, SouthAmerica-East1, US (Multi-Regional), US-Central1, US-East1, US-East4, US-East5, US-South1, US-West1, US-West2, US-West3, US-West4	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.4 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.9.1 or later.</p> <p>Support for the EU-Southwest1 and EU-West9 regions requires Cloud Configuration Package version 2.9.3 or later.</p> <p>Support for the US-East5 and US-South1 regions requires Cloud Configuration Package version 2.9.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://cloud.google.com/storage/archival></p>

Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Coldline	NetBackup 10.0 and later S3 connector	No	Africa-South1, Asia (Multi-Regional), Asia-East1, Asia-East2, Asia-Northeast1, Asia-Northeast2, Asia-Northeast3, Asia-South1, Asia-South2, Asia-Southeast1, Asia-Southeast2, Australia-Southeast1, Australia-Southeast2, EU (Multi-Regional), EU-Central2, EU-North1, EU-Southwest1, EU-West1, EU-West10, EU-West12, EU-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, ME-Central1, ME-Central2, ME-West1, NorthAmerica-Northeast1, NorthAmerica-Northeast2, SouthAmerica-East1, US (Multi-Regional), US-Central1, US-East1, US-East4, US-East5, US-South1, US-West1, US-West2, US-West3, US-West4	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.4 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.9.1 or later.</p> <p>Support for the EU-Southwest1 and EU-West9 regions requires Cloud Configuration Package version 2.9.3 or later.</p> <p>Support for the US-East5 and US-South1 regions requires Cloud Configuration Package version 2.9.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://cloud.google.com/storage/archival></p>

Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Nearline	NetBackup 10.0 and later S3 connector	No	Africa-South1, Asia (Multi-Regional), Asia-East1, Asia-East2, Asia-Northeast1, Asia-Northeast2, Asia-Northeast3, Asia-South1, Asia-South2, Asia-Southeast1, Asia-Southeast2, Australia-Southeast1, Australia-Southeast2, EU (Multi-Regional), EU-Central2, EU-North1, EU-Southwest1, EU-West1, EU-West10, EU-West12, EU-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, ME-Central1, ME-Central2, ME-West1, NorthAmerica-Northeast1, NorthAmerica-Northeast2, SouthAmerica-East1, US (Multi-Regional), US-Central1, US-East1, US-East4, US-East5, US-South1, US-West1, US-West2, US-West3, US-West4	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.4 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.9.1 or later.</p> <p>Support for the EU-Southwest1 and EU-West9 regions requires Cloud Configuration Package version 2.9.3 or later.</p> <p>Support for the US-East5 and US-South1 regions requires Cloud Configuration Package version 2.9.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://cloud.google.com/storage-nearline/></p>

Hewlett Packard Enterprise

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Volumes	HPE 4.2 Plug-in	No	All Locales	<p>Also supported with NetBackup Appliance 4.0 and later S3 connector.</p> <p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: No</p> <p>Granular Recovery Technology with VMware-type policies: Yes</p> <p>Granular Recovery Technology: Yes</p> <p>Instant Recovery for VMware: Yes</p> <p>MSDP Direct Cloud Tiering: No</p> <p>NetBackup Accelerator (for files and folders): Yes</p> <p>NetBackup Accelerator with Hyper-V: Yes</p> <p>NetBackup Accelerator with NDMP: Yes</p> <p>NetBackup Accelerator with VMware: Yes</p> <p>Optimized Duplication: Yes. Supported only when duplicating from a source StoreOnce store to a target Cloud Volumes store.</p> <p>S3 Object Lock: No</p> <p>Vendor site: <https://cloudvolumes.hpe.com/welcome/></p> <p>Whole> Image Optimized Duplication: Yes. Supported only when duplicating from a source StoreOnce store to a target Cloud Volumes store.</p>

Hitachi Vantara

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Content Platform (HCP)	NetBackup 10.0 and later S3 connector	Yes	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Supported in LAN and WAN environments.</p> <p>The versioning feature must be enabled in the Hitachi cloud storage settings for both the tenant and the bucket.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.hitachivantara.com/en-us/products/cloud-object-platform/content-platform.html></p>
HCP for Cloud Scale	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Supported in LAN and WAN environments.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.hitachivantara.com/en-us/products/storage/object-storage/content-platform.html></p>

IBM

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage - Cold Vault	NetBackup 10.0 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Madrid, Milan, Montreal, Paris, San Jose, Sao Paulo, Singapore, US Cross Region, US East, US South	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Regions AUS Melbourne, Hong Kong, Mexico City, Oslo and Seoul are decommissioned by IBM. Refer Decommissioned locations <https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-endpoints#endpoints-decom></p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/></p>
Cloud Object Storage - Private	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/></p>

IBM

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage - Smart Tier	NetBackup 10.0 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Madrid, Milan, Montreal, Paris, San Jose, Sao Paulo, Singapore, US Cross Region, US East, US South	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Regions AUS Melbourne, Hong Kong, Mexico City, Oslo and Seoul are decommissioned by IBM. Refer Decommissioned locations <https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-endpoints#endpoints-decom></p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/></p>
Cloud Object Storage - Standard	NetBackup 10.0 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Madrid, Milan, Montreal, Paris, San Jose, Sao Paulo, Singapore, US Cross Region, US East, US South	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Regions AUS Melbourne, Hong Kong, Mexico City, Oslo and Seoul are decommissioned by IBM. Refer Decommissioned locations <https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-endpoints#endpoints-decom></p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/></p>

IBM

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage - Vault	NetBackup 10.0 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Madrid, Milan, Montreal, Paris, San Jose, Sao Paulo, Singapore, US Cross Region, US East, US South	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Regions AUS Melbourne, Hong Kong, Mexico City, Oslo and Seoul are decommissioned by IBM. Refer Decommissioned locations <https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-endpoints#endpoints-decom></p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/></p>

Impossible Cloud

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage	NetBackup 10.0 and later S3 connector	No	US-WEST-1	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.10.9 or later.</p> <p>S3 Object Lock: Yes, Requires NetBackup 10.0 or later and Cloud Configuration Package version 2.11.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.impossiblecloud.com/></p>

Infoniqa

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
SWISS3CLOUD	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.infoniqa.ch/cloud-services/swiss3cloud/></p>

Iron Mountain

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Iron Cloud Secure Offline Storage (SOS)	NetBackup 10.3 and later S3 connector	No	us-east-1	<p>Requires NetBackup 10.3 or later.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.ironmountain.com/services/iron-cloud-data-management/secure-offline-storage/></p>

iTernity

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
iCAS FS	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires NetBackup 10.0.0.1 or later and Cloud Configuration Package version 2.9.4 or later.</p> <p>S3 Object Lock: Yes, Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.11.4 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://iternity.com/en/products/icas-fs/></p>

Microsoft

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Azure	NetBackup 10.0 and later Azure connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>Azure Archive is supported. For more information, see About restore from a backup in Microsoft Azure Archive <https://www.veritas.com/content/support/en_US/doc/25074086-151874763-0/v144509100-151874763> .</p> <p>Azure Blob storage with hot, cool and cold tiers is supported. Cold tier support requires NetBackup 10.3 or later and Cloud Configuration Package version 2.11.5 or later.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes. Supported with Azure and Azure Archive. GRS and GZRS is not supported.</p> <p>Object Lock (Immutable storage): Yes.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <https://docs.microsoft.com/en-us/azure/storage/></p>

Microsoft

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Azure Germany	NetBackup 10.0 and later Azure connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>Azure Archive is supported. For more information, see About restore from a backup in Microsoft Azure Archive <https://www.veritas.com/content/support/en_US/doc/25074086-151874763-0/v144509100-151874763> .</p> <p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes. Supported with Azure and Azure Archive. GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <https://docs.microsoft.com/en-gb/azure/germany/></p>
Azure Government	NetBackup 10.0 and later Azure connector	No	All US Gov Locales	<p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>Azure Archive is supported. For more information, see About restore from a backup in Microsoft Azure Archive <https://www.veritas.com/content/support/en_US/doc/25074086-151874763-0/v144509100-151874763> .</p> <p>Azure Blob storage with hot, cool and cold tiers is supported. Cold tier support requires NetBackup 10.3 or later and Cloud Configuration Package version 2.11.5 or later.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes. Supported with Azure and Azure Archive. GRS and GZRS is not supported.</p> <p>Object Lock (Immutable storage): Yes.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <https://azure.microsoft.com/en-us/overview/clouds/government/></p>

NEC

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud IaaS	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): No</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: http://jpn.nec.com/cloud/service/platform_service/iaas.html</p>
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): No</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: http://www.necam.com/HYDRAsTOR/</p>

NEC

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen)	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): No</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: <http://www.necam.com/HYDRAsstor/></p>

NetApp

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
ONTAP S3	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.10.9 or later.</p> <p>Creating a disk volume via NetBackup Admin Console, CLI or WebUI Console is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.netapp.com/></p>

NetApp

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
StorageGRID Webscale Object Storage - LAN	NetBackup 10.2 and later S3 connector	No	All Locales	<p>Requires NetBackup 10.2 or later and Cloud Configuration Package version 2.10.9 or later.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No.</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: <http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx></p>
StorageGRID Webscale Object Storage - WAN	NetBackup 10.0 and later S3 connector	No	All Locales	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.1.1 or later.</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: <http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx></p>

NooBaa

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
NooBaa	NetBackup 10.0 and later S3 connector	No	All Locales, On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: http://www.noobaa.com/</p>

Nutanix

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Objects	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: https://www.nutanix.com/products/objects/</p>

Oracle

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Oracle Cloud Infrastructure	NetBackup 10.0 and later S3 connector	No	AP Chuncheon, AP Hyderabad, AP Melbourne, AP Mumbai, AP Osaka, AP Seoul, AP Sydney, AP Tokyo, CA Montreal, CA Toronto, EU Amsterdam, EU Frankfurt, EU Zurich, ME Dubai, ME Jeddah, SA Santiago, SA Sao Paulo, UK London, UK Newport, US Ashburn, US Phoenix, US San Jose	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: https://cloud.oracle.com/en_US/infrastructure/storage</p>

Orange Business Services

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Flexible Engine OBS	NetBackup 10.0 and later S3 connector	No	EU West 0, EU West 1, NA East 0	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: https://cloud.orange-business.com/en/flexible-engine/</p>

Pure Storage

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
FlashBlade	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.10.10 or later.</p> <p>S3 Object Lock: Yes, Requires NetBackup 10.0 or later and Cloud Configuration Package version 2.11.0 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.purestorage.com/></p>

Quantum

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Active Archive and ActiveScale Systems - Glacier	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.9.1 or later.</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.quantum.com/en/products/object-storage></p>

Quantum

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Active Archive and ActiveScale Systems - Standard	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.9.1 or later.</p> <p>S3 Object Lock: Yes, requires NetBackup 10.1.1 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.quantum.com/en/products/object-storage></p>

Red Hat

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Ceph Storage	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.redhat.com/en/technologies/storage/ceph></p>

SandStone

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
MOS	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <http://www.szsandstone.com/product/mos></p>

Scality

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
RING Storage	NetBackup 10.0 and later S3 connector	No	All Locales, On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, Compliance mode requires NetBackup 10.1 or later. Governance mode requires NetBackup 10.1.1 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Supported in LAN and WAN environments.</p> <p>URL style: Path (LAN); Virtual Hosted (default), Path (WAN)</p> <p>Vendor site: <http://www.scality.com/></p>

Seagate

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Lyve Cloud	NetBackup 10.0 and later S3 connector	No	us-east-1	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.seagate.com/services/cloud/storage/></p>

Spectra Logic

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Vail	NetBackup 10.1 and later S3 connector	No	On-Premises	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.10.5 or later.</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://spectralogic.com/products/vail/></p>

STACKIT

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Object Storage	NetBackup 10.1 and later S3 connector	No	EU01	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires NetBackup 10.1 or later and Cloud Configuration Package version 2.10.6 or later.</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.stackit.de/></p>

SUSE

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
SUSE Enterprise Storage	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://www.suse.com/products/suse-enterprise-storage/></p>

SwiftStack

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Object Storage	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.</p> <p>For information on upgrading from 1 MB to 16 MB object size, refer to the vendor's documentation.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <https://www.swiftstack.com></p>

Tencent

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage (COS) - ARCHIVE	NetBackup 10.0 and later S3 connector	No	ap-bangkok, ap-beijing, ap-beijing-1, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-mumbai, ap-nanjing, ap-seoul, ap-shanghai, ap-singapore, ap-tokyo, eu-frankfurt, eu-moscow, na-ashburn, na-siliconvalley, na-toronto	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://intl.cloud.tencent.com/></p>
Cloud Object Storage (COS) - DEEP ARCHIVE	NetBackup 10.0 and later S3 connector	No	ap-beijing, ap-chengdu, ap-guangzhou, ap-shanghai	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://intl.cloud.tencent.com/></p>

Tencent

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage (COS) - Standard	NetBackup 10.0 and later S3 connector	No	ap-bangkok, ap-beijing, ap-beijing-1, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-mumbai, ap-nanjing, ap-seoul, ap-shanghai, ap-singapore, ap-tokyo, eu-frankfurt, eu-moscow, na-ashburn, na-siliconvalley, na-toronto	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://intl.cloud.tencent.com/></p>
Cloud Object Storage (COS) - Standard IA	NetBackup 10.0 and later S3 connector	No	ap-bangkok, ap-beijing, ap-beijing-1, ap-chengdu, ap-chongqing, ap-guangzhou, ap-hongkong, ap-mumbai, ap-nanjing, ap-seoul, ap-shanghai, ap-singapore, ap-tokyo, eu-frankfurt, eu-moscow, na-ashburn, na-siliconvalley, na-toronto	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <https://intl.cloud.tencent.com/></p>

VAST Data

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Universal Storage	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.10.8 or later.</p> <p>S3 Object Lock: Yes, Requires NetBackup 10.3 or later and Cloud Configuration Package version 2.11.0 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No.</p> <p>Default location is VAST-1</p> <p>URL style: Path</p> <p>Vendor site: <https://vastdata.com/></p>

Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Alta Recovery Vault AWS Archive	NetBackup 10.0.0.1 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0.0.1 and later S3 connector.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier Deep Archive standard retrieval policies. For more information on times required for retrieval, see Amazon's documentation for this storage class. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/s3</p>

Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Alta Recovery Vault AWS GovCloud Archive	NetBackup 10.0.0.1 and later S3 connector	No	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0.0.1 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>When configuring C2S through a CAP server, use a non-encrypted client key.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time.</p> <p>NetBackup Accelerator (for files and folders): No</p> <p>NetBackup Accelerator with VMware: No</p> <p>NetBackup supports Amazon Glacier Deep Archive standard retrieval policies. For more information on times required for retrieval, see Amazon's documentation for this storage class. Veritas recommends setting the retrieval retention period to a minimum of 3 days.</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p><http://aws.amazon.com/govcloud-us/></p>

Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Alta Recovery Vault AWS GovCloud Standard	NetBackup 10.0 and later S3 connector	No	US East1 (Gov FIPS 140-2), US East1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2), US West1 (Gov Non-FIPS)	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Supported with back-level media servers only. Only supported with the non-FIPS endpoints at this time.</p> <p>MSDP Direct Cloud Tiering: Yes. Only supported with the non-FIPS endpoints at this time.</p> <p>Requires the Emergency Engineering Binaries in bundle https://www.veritas.com/content/support/en_US/downloads/update.UPD179558</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/govcloud-us/</p>

Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Alta Recovery Vault AWS Standard	NetBackup 10.0 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Hyderabad), Asia Pacific (Jakarta), Asia Pacific (Melbourne), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Spain), Europe (Stockholm), Europe (Zurich), Israel (Tel Aviv), Middle East (Bahrain), Middle East (UAE), South America (Sao Paulo), US East (N. Virginia FIPS 140-2), US East (N. Virginia), US East (Ohio FIPS 140-2), US East (Ohio), US West (N. California FIPS 140-2), US West (N. California), US West (Oregon FIPS 140-2), US West (Oregon)	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires the Emergency Engineering Binaries in bundle https://www.veritas.com/content/support/en_US/downloads/update.UPD179558</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Asia Pacific (Jakarta) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: http://aws.amazon.com/s3</p>
Alta Recovery Vault Azure	NetBackup 10.0 and later Azure connector	No	All Locales	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Cloud regions in Mainland China are not supported.</p> <p>For Azure reserved access regions, contact Veritas Product Management to enable the support.</p> <p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>Azure Blob storage with cool tiers is supported.</p> <p>CloudCatalyst: No</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: https://docs.microsoft.com/en-us/azure/storage/</p>

Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Alta Recovery Vault Azure Archive	NetBackup 10.0.0.1 and later Azure connector	No	All Locales	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Cloud regions in Mainland China are not supported.</p> <p>For Azure reserved access regions, contact Veritas Product Management to enable the support.</p> <p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>CloudCatalyst: No</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <https://docs.microsoft.com/en-us/azure/storage/></p>
Alta Recovery Vault Azure Government	NetBackup 10.0 and later Azure connector	No	All US Gov Locales	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>Azure Blob storage with cool tiers is supported.</p> <p>CloudCatalyst: No</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <https://azure.microsoft.com/en-us/overview/clouds/government/></p>
Alta Recovery Vault Azure Government Archive	NetBackup 10.0.0.1 and later Azure connector	No	All US Gov Locales	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0 and later Azure connector.</p> <p>CloudCatalyst: No</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <https://azure.microsoft.com/en-us/overview/clouds/government/></p>

Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Veritas Access	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: https://www.veritas.com/product/software-defined-storage/access</p>
Veritas Access 3340/3350 Appliance	NetBackup 10.0 and later S3 connector	No	On-Premises	<p>Beginning May 1, 2023 new buckets in Recovery Vault are supported only with Immutability enabled both on the bucket and at the NetBackup Storage Unit level.</p> <p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path (default), Virtual Hosted</p> <p>Vendor site: https://www.veritas.com/product/software-defined-storage/access</p>

Wasabi

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Hot Cloud Storage	NetBackup 10.0 and later S3 connector	No	ap-northeast-1 (Tokyo), ap-northeast-2 (Osaka), ap-southeast-1 (Singapore), ap-southeast-2 (Sydney), ca-central-1 (Toronto), eu-central-1 (Amsterdam), eu-central-2 (Frankfurt), eu-west-1 (London), eu-west-2 (Paris), us-central-1 (Plano, Texas), us-east-1 (Ashburn, Virginia), us-east-2 (Manassas, Virginia), us-west-1 (Oregon)	<p>Also supported with NetBackup Appliance 5.0 and later S3 connector.</p> <p>CloudCatalyst: Supported with back-level media servers only.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>S3 Object Lock: Yes, requires NetBackup 10.1 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the ap-southeast-1 (Singapore) region requires Cloud Configuration Package version 2.9.3 or later.</p> <p>Support for the ap-southeast-2 (Sydney), ca-central-1 (Toronto) and eu-central-2 (Frankfurt) regions requires Cloud Configuration Package version 2.9.2 or later.</p> <p>Support for the eu-west-2 (Paris) region requires Cloud Configuration Package version 2.9.1 or later.</p> <p>Support for the us-east-1 (Ashburn, Virginia) requires NetBackup 10.1 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: https://wasabi.com</p>

OST Storage Servers

OpenStorage Servers are intelligent storage devices that interface to NetBackup Media Servers via the Veritas OpenStorage (OST) API. The vendor supplying the Storage Server appliance provides a software plug-in, which is installed on each NetBackup Media Server that is attached to the OpenStorage Server.

OST Storage Servers support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances and with Linux/Windows operating systems. The tables provide information on supported versions of plug-ins and functionality, and other important notes about the hardware and its compatibility. OST functionality is available on all supported NetBackup Media Server platforms. If you do not see OST support for your desired Storage Server appliance / Media Server OS platform, please contact that Storage Server appliance vendor to request OST support for that platform. Please see the Veritas NetBackup Administrator's Guide for more information on how to use OST.

Contents

<u>OST Storage Servers - Considerations</u>	<u>OST Storage Servers - Supported Functionality</u>	<u>OST Storage Servers - Links to Vendor Sites</u>
<u>OST Storage Servers - Vendor Compatibility</u>		

OST Storage Servers - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" .<https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> All OpenStorage Servers are compatible with the NetBackup Data Protection Optimization Option features (Storage Lifecycle Policies, Intelligent Disk Capacity Management and Media Server Load Balancing) and the SAN Client (currently supported only with Solaris SPARC and Linux x64 media servers). Where support is shown for NetBackup 5200 Series or 5300 Series Appliances it means that the OST solution is supported on appliances running versions 3.2 or later, unless noted otherwise. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported. Where support is shown for "Windows Server 2022 Datacenter" it also means that the other editions of Windows Server 2022 are supported. CentOS and Oracle Linux are not supported with OpenStorage, unless noted otherwise. SUSE Linux Enterprise Server 12 support requires SP3 or later.
Vendor support considerations	<ol style="list-style-type: none"> Veritas and OpenStorage server vendors have mutually agreed to support NetBackup customers with OST solutions. Veritas and most OST server vendors are members of TSANet. Veritas qualifies OpenStorage plug-ins for use with NetBackup. The qualified plug-ins are maintained by the party that writes and distributes the plug-ins. Features Veritas Partners implement behind the OST API, that operate independently and are transparent to NetBackup and the OpenStorage API (for example, replication between storage servers, deduplication on the storage server, deduplication-aware plug-ins, data transport mechanisms between the media server and the storage server), are not specifically qualified by Veritas. Partner-specific features designed to interoperate in the NetBackup environment as part of the total solution are the maintenance responsibility of the partner. Check the partner's compatibility list to ensure support of the feature with NetBackup and to ensure that your infrastructure (that is, hardware and network) meets the partner's recommended sizing considerations for the feature. Check the device manufacturer's compatibility list to verify the minimum version of Storage Server software required for your Storage Server family member, that the Storage Server software version you are running is compatible with the plug-in version, and that the storage server software version supports the OpenStorage functionality you are running. Minor versions of the plug-ins listed in the tables below are also supported. (Example: Version "2.0" means versions 2.0.1, 2.0.2, etc. are also supported. Version "3" means versions 3.1, 3.2, etc. are also supported.)

Subject	Notes
Configuration considerations	<p>1. The Data Interface column in the tables below describes the supported data path between the media server running the vendor's OST plug-in and the OST storage server.</p> <p>2. The Veritas NetBackup OpenStorage Optimized Duplication feature takes advantage of the replication capabilities built into many storage servers and cloud solutions by allowing images replicated by the storage servers or cloud solutions to be registered as duplicated copies in the NetBackup catalog. This feature requires at least one NetBackup Media Server with connectivity to both the source storage server or cloud solution and the destination storage server or cloud solution. Optimized Duplication cannot be performed across NetBackup domains.</p> <p>3. A Logical Storage Unit (LSU) must be configured to only one NetBackup domain. Media servers from more than one NetBackup domain configured to the same LSU is not supported.</p>
Operational considerations	<p>1. Storage Servers that do not automatically increase the size of LSUs may take advantage of the LSU spanning feature. For information about spanning volumes on OpenStorage disk pools, see the Veritas NetBackup OpenStorage Solutions Guide for Disk.</p> <p>2. The NetBackup Accelerator, Accelerator with NDMP, and Accelerator with VMware-type policies features are not supported with spanned LSUs.</p>

OST Storage Servers - Supported Functionality

The following table lists NetBackup OpenStorage functionality and indicates the NetBackup 10.x version at which that functionality was first supported. For detailed descriptions of OpenStorage functionality, see the ["NetBackup OpenStorage Solutions Guide for Disk"](https://www.veritas.com/content/support/en_US/doc/59118460-127355792-0/index) <https://www.veritas.com/content/support/en_US/doc/59118460-127355792-0/index> .

To see which OST functionality is supported with your OpenStorage solution, refer to the "Supported OpenStorage Functionality" column in the Vendor Compatibility tables below.

OpenStorage Functionality	Abbreviation	NetBackup Start of Support	Notes
Accelerator (for files and folders)	Accelerator	10.0	<p>If your storage server shows support for Accelerator in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>If you are running Accelerator-enabled backups of Windows clients whose file systems contain hard linked files, see "Accelerator enabled backups of Windows hard linked files to OpenStorage disk storage may cause bptm to crash" <http://www.veritas.com/docs/100015771> .</p> <p>Accelerator is not supported with spanned Logical Storage Units (LSU).</p>
Accelerator with NDMP	Accel_NDMP	10.0	<p>Supported with Dell EMC Isilon Scale-Out NAS filers, and NetApp AFF, FAS, and V series filers.</p> <p>For more information on this feature, see the "About NetBackup Accelerator for NDMP" <https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692> .</p> <p>Accelerator with NDMP is not supported with spanned LSUs.</p>
Accelerator with Hyper-V-type policies	Accel_Hyper-V	10.0	<p>If your storage server shows support for Accelerator with Hyper-V in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>Accelerator with Hyper-V-type policies is not supported with spanned LSUs.</p> <p>Accelerator with Hyper-V-type policies is not supported with shared virtual disks and VHD sets.</p> <p>Accelerator with Hyper-V-type policies support requires Hyper-V Server 2016 or later.</p> <p>For more information on this feature, see the "Veritas NetBackup for Hyper-V Administrator's Guide" <https://www.veritas.com/support/en_US/doc/21357025-130334382-0/index> .</p>

OpenStorage Functionality	Abbreviation	NetBackup Start of Support	Notes
Accelerator with VMware-type policies	Accel_VMware	10.0	<p>If your storage server shows support for Accelerator with VMware in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>Accelerator with VMware-type policies is not supported with spanned LSUs.</p> <p>For more information on this feature, see the "Veritas NetBackup for VMware Administrator's Guide" <https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index> .</p>
Auto Image Replication	A.I.R.	10.0	<p>For more information on configuring Auto Image Replication, see "About the storage lifecycle policies required for Auto Image Replication" <https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v47608990-136046435> .</p> <p>Veritas recommends replicating images from NetBackup 8.0 or later storage servers to target storage servers running the same NetBackup version. Replicating images between NetBackup 8.0 or later storage servers and NetBackup 7.x storage servers is supported, however, due to differences in encryption and fingerprinting methods, the additional processing required may cause performance issues and causes the replicated image data to be unencrypted while in transit.</p> <p>In configurations running both A.I.R. and Targeted A.I.R., Veritas recommends setting the Storage Lifecycle Policies parameter "Auto create A.I.R. import SLP" to "No" and creating non-Targeted A.I.R. import policies only where desired.</p> <p>Only one media server should be configured to each target Logical Storage Unit (LSU).</p> <p>Each source and target storage server should have its credentials configured in only one NetBackup domain.</p>
Targeted Auto Image Replication	Targeted_A.I.R.	10.0	<p>If your storage server shows support for Targeted A.I.R. in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>Veritas recommends replicating images from NetBackup 8.0 or later storage servers to target storage servers running the same NetBackup version. Replicating images between NetBackup 8.0 or later storage servers and NetBackup 7.x storage servers is supported, however, due to differences in encryption and fingerprinting methods, the additional processing required may cause performance issues and causes the replicated image data to be unencrypted while in transit.</p> <p>In configurations running both A.I.R. and Targeted A.I.R., Veritas recommends setting the Storage Lifecycle Policies parameter "Auto create A.I.R. import SLP" to "No" and creating non-Targeted A.I.R. import policies only where desired.</p> <p>Only one media server should be configured to each target Logical Storage Unit (LSU).</p> <p>Each source and target storage server should have its credentials configured in only one NetBackup domain.</p> <p>When support for Targeted A.I.R. is shown in the tables below, all replication topologies are supported, unless noted otherwise.</p>
Direct Copy to dedicated tape drives	Direct_Copy	10.0	
Direct Copy to shared tape drives	Direct_Copy_Shared	10.0	
Granular Recovery Technology	Granular_Recovery	10.0	<p>Support for the Veritas NetBackup OpenStorage Granular Recovery Technology feature is described in "Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE)" <http://www.veritas.com/docs/100003245> and "Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions" <http://www.veritas.com/docs/100027093> .</p>

OpenStorage Functionality	Abbreviation	NetBackup Start of Support	Notes
Granular Recovery Technology with VMware-type policies	GRT_VMware	10.0	Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint. Support for the Veritas NetBackup OpenStorage Granular Recovery Technology feature is described in " Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE) " < http://www.veritas.com/docs/100003245 > and " Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions " < http://www.veritas.com/docs/100027093 > .
Immutable Data / WORM	WORM	10.0	When support for immutable data/WORM (Write Once Read Many) is shown in the tables below, basic backup/restore, duplication, A.I.R. and Targeted A.I.R. using WORM are supported. Data Immutability/WORM is supported with Client Direct with NetBackup 9.1 and later.
Instant Recovery for VMware	IR_VMware	10.0	Support for restoring virtual machines with Instant Recovery is described in the " Veritas NetBackup for VMware Administrator's Guide " < https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index > . For details on supported platforms for instant recovery restore hosts, see " Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments " < https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE > .
NetBackup Encryption Key Management Service	KMS	10.0	In the OST Cloud vendor tables, KMS indicates that the cloud provider supports using NetBackup KMS to encrypt backups to cloud targets. In the OST Storage Servers vendor tables, KMS indicates that the plug-in supports NetBackup KMS with Direct Copy to Tape functionality.
Optimized Duplication	Opt_Dup	10.0	Optimized Duplication transfers data in 256 KB chunks.
Optimized Duplication (Whole Image Copy)	WI_Opt_Dup	10.0	Whole image Optimized Duplication uses the storage unit's Maximum fragment size to transfer an entire NetBackup image fragment in a single operation.
Optimized Synthetics	Opt_Synth	10.0	Storage Lifecycle Policies are not supported in policies that use the multiple copy synthetic backups method. For details, see " Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method " < http://www.veritas.com/docs/100013288 > .

OST Storage Servers - Links to Vendor Sites

More information on NetBackup OpenStorage solutions is available at the following OST Storage Server vendors' websites.

Vendor	URL
Dell EMC	< http://www.dell.com/ >
Dell EMC Data Domain	< http://www.datadomain.com/products/ >
ExaGrid	< https://www.exagrid.com/exagrid-products/supported-data-backup-applications/veritas-netbackup/ >
FalconStor	< http://www.falconstor.com/en/pages/?pn=VTL >
Fujitsu	< http://www.fujitsu.com/global/ >
H3C	< http://www.h3c.com/en/OurBusiness/Products/Storage/ >
Hewlett Packard Enterprise	< https://www.hpe.com/us/en/storage/storeonce.html >
Hitachi Vantara	< https://www.hitachivantara.com/en-us/home.html >
Huawei	< http://www.huawei.com/ >
Infinidat	< http://www.infinidat.com/ >
NEC	< http://www.necam.com/HYDRAsstor/ >
Oracle	< http://www.oracle.com/technetwork/server-storage/sun-unified-storage/downloads/zfssa-plugins-1489830.html >

Vendor	URL
Quantum	http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugIn/Index.aspx
Quest	https://www.quest.com/products/dr-series-disk-backup-appliances/
Veritas	https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/

OST Storage Servers - Vendor Compatibility

Contents

Dell EMC	Dell EMC Data Domain	ExaGrid
FalconStor	Fujitsu	H3C
Hewlett Packard Enterprise	Infinidat	NEC
Oracle	Quantum	Quest
Veritas		

Dell EMC

Dell EMC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64
DR2000v [1]	3.1	Ethernet	No	Accelerator, AcceI_NDMP, AcceI_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter [2]
DR2000v [1]	3.2	Ethernet	No	Accelerator, AcceI_NDMP, AcceI_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Datacenter [2]
DR Series	3.1	Ethernet	No	Accelerator, AcceI_NDMP, AcceI_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Datacenter [2]
DR Series	3.2	Ethernet	No	Accelerator, AcceI_NDMP, AcceI_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Datacenter [2]

1. This device is a virtual appliance. For compatible versions of VMware, see Dell EMC's and VMware's compatibility lists.
2. Requires a force install on Windows platforms. Contact Dell EMC for instructions.

Dell EMC - Family Membership

Storage Server Family	Members
DR Series	DR4000, DR4100, DR6000

Dell EMC Data Domain

Dell EMC Data Domain - Support with NetBackup Appliance and Flex Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Appliance series [1] [2] [3] [4]	7.2	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [2] [3] [4] [5]	7.2	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [2] [3] [6]	7.3	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [2] [3] [5] [6]	7.3	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [2] [3] [7]	7.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [2] [3] [5] [7]	7.4	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [7]	7.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [5] [7]	7.5	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [7]	7.6	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [5] [7]	7.6	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [7]	7.7	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [5] [7]	7.7	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [7] [8]	7.8	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [5] [7] [8]	7.8	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [7] [8]	7.9	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [5] [7] [8]	7.9	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Appliance series [1] [3] [7] [8]	7.10	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes

Dell EMC Data Domain - Support with NetBackup Appliance and Flex Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Appliance series [1] [3] [5] [7] [8]	7.10	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [2] [3] [4] [9]	7.2	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [2] [3] [6] [9]	7.3	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [2] [3] [7] [9]	7.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [3] [7] [9]	7.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [3] [7] [9]	7.6	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [3] [7] [9]	7.7	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.8	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.9	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.10	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes

1. IPv6 is supported with NetBackup 8.1.1 and later.
2. Supported with NetBackup 9.0 and later only when upgrading from an earlier NetBackup version on which the plug-in is running. If the plug-in needs to be reinstalled after upgrading NetBackup to 9.0 or later, you must install plug-in version 7.5 or later.
3. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
4. WORM support requires plug-in version 7.2.0.50 or later and NetBackup 8.3.0.1 or later.
5. When running Targeted A.I.R. over Fibre Channel, Windows is only supported as a target domain.
6. WORM support requires plug-in version 7.3.0.10 or later and NetBackup 8.3.0.1 or later.
7. WORM support requires NetBackup 8.3.0.1 or later.
8. Supports PowerProtect Smart Scale, however T-AIR functionality is not supported in this release of Smart Scale.
9. This device is a virtual appliance. For compatible versions of VMware, see Dell EMC Data Domain's and VMware's compatibility lists.

Dell EMC Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Appliance series [1] [2] [3] [4]	7.2	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [2] [3] [4] [5]	7.2	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [2] [3] [6]	7.3	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [2] [3] [5] [6]	7.3	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [2] [3] [7]	7.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [2] [3] [5] [7]	7.4	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [7]	7.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [5] [7]	7.5	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [7]	7.6	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15

Dell EMC Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Appliance series [1] [3] [5] [7]	7.6	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [7]	7.7	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [5] [7]	7.7	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [7] [8]	7.8	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [5] [7] [8]	7.8	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Appliance series [1] [3] [7] [8]	7.9	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Appliance series [1] [3] [5] [7] [8]	7.9	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Appliance series [1] [3] [7] [8]	7.10	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Appliance series [1] [3] [5] [7] [8]	7.10	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Appliance series [1] [3] [7] [8]	7.11	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15

Dell EMC Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Appliance series [1] [3] [7] [8]	7.12	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Appliance series [1] [3] [7] [8]	7.13	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Virtual Edition (VMware) [1] [2] [3] [4] [9]	7.2	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [2] [3] [6] [9]	7.3	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [2] [3] [7] [9]	7.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [3] [7] [9]	7.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [3] [7] [9]	7.6	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [3] [7] [9]	7.7	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.8	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.9	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15

Dell EMC Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.10	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.11	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.12	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Virtual Edition (VMware) [1] [3] [7] [8] [9]	7.13	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15

1. IPv6 is supported with NetBackup 8.1.1 and later.
2. Supported with NetBackup 9.0 and later only when upgrading from an earlier NetBackup version on which the plug-in is running. If the plug-in needs to be reinstalled after upgrading NetBackup to 9.0 or later, you must install plug-in version 7.5 or later.
3. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
4. WORM support requires plug-in version 7.2.0.50 or later and NetBackup 8.3.0.1 or later.
5. When running Targeted A.I.R. over Fibre Channel, Windows is only supported as a target domain.
6. WORM support requires plug-in version 7.3.0.10 or later and NetBackup 8.3.0.1 or later.
7. WORM support requires NetBackup 8.3.0.1 or later.
8. Supports PowerProtect Smart Scale, however T-AIR functionality is not supported in this release of Smart Scale.
9. This device is a virtual appliance. For compatible versions of VMware, see Dell EMC Data Domain's and VMware's compatibility lists.

Dell EMC Data Domain - Family Membership

Storage Server Family	Members
Appliance series	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900

ExaGrid

ExaGrid - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
EX series [1] [2] [3] [4]	V11.5.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes

1. Accelerator support requires ExaGrid software version 5.2.2 or later.
2. Optimized Duplication (Opt_Dup) may fail on NetBackup 10.1, for more information and solution, refer: [Optimized Duplication fails with status 191 <https://www.veritas.com/content/support/en_US/article.100054187>](https://www.veritas.com/content/support/en_US/article.100054187)
3. Pooled OST Shares feature requires ExaGrid software version 6.1.1 or later, simplifying OST device setup and management.
4. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.

ExaGrid - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64
EX series [1] [2]	V11.4.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	No	No	7
EX series [1] [2] [3] [4]	V11.5.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9

1. Accelerator support requires ExaGrid software version 5.2.2 or later.
2. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
3. Optimized Duplication (Opt_Dup) may fail on NetBackup 10.1, for more information and solution, refer: [Optimized Duplication fails with status 191 <https://www.veritas.com/content/support/en_US/article.100054187>](https://www.veritas.com/content/support/en_US/article.100054187)
4. Pooled OST Shares feature requires ExaGrid software version 6.1.1 or later, simplifying OST device setup and management.

ExaGrid - Family Membership

Storage Server Family	Members
EX series	All Models

FalconStor

FalconStor - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Virtual Tape Library (VTL) series	9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
Virtual Tape Library (VTL) series	9	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes

FalconStor - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Virtual Tape Library (VTL) series	9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R.	Datacenter	Datacenter	7	12
Virtual Tape Library (VTL) series	9	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	7	12

FalconStor - Family Membership

Storage Server Family	Members
Virtual Tape Library (VTL) series	VTL-G, VTL-S, VTL-V

Fujitsu

Fujitsu - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
ETERNUS CS800 ENTERPRISE	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 ENTRY	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 M1 [1] [2]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Yes	Yes
ETERNUS CS800 Reference Architecture [1] [2] [3]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Yes	Yes
ETERNUS CS800 S3	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S4	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S4	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S5	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S5	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S6	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S6	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 S7	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
ETERNUS CS800 SCALE	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes

1. Targeted A.I.R. support requires Fujitsu OS 4.1 or later.
2. WORM support requires plug-in version 11.0.0-4724 or later, Fujitsu OS 4.5.2 or later and NetBackup 8.3.0.1 or later.
3. This device uses Quantum V5000 Software Stack on Fujitsu Server PRIMERGY.

Fujitsu - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS800 ENTERPRISE	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
ETERNUS CS800 ENTRY	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
ETERNUS CS800 M1 [1] [2]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	No	Datacenter	Datacenter	Datacenter	7, 8	No
ETERNUS CS800 Reference Architecture [1] [2] [3]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	No	Datacenter	Datacenter	Datacenter	7, 8	No
ETERNUS CS800 S3	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
ETERNUS CS800 S3	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
ETERNUS CS800 S4	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
ETERNUS CS800 S4	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
ETERNUS CS800 S4	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
ETERNUS CS800 S5	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
ETERNUS CS800 S5	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
ETERNUS CS800 S5	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12

Fujitsu - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS800 S6	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
ETERNUS CS800 S6	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
ETERNUS CS800 S7	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
ETERNUS CS800 SCALE	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
ETERNUS CS8000 series	1.0	Ethernet	No	Opt_Dup	No	No	No	No	7	12
ETERNUS CS8000 series	1.1	Ethernet	No	Opt_Dup	Datacenter	No	No	No	7	12

1. Targeted A.I.R. support requires Fujitsu OS 4.1 or later.
2. WORM support requires plug-in version 11.0.0-4724 or later, Fujitsu OS 4.5.2 or later and NetBackup 8.3.0.1 or later.
3. This device uses Quantum V5000 Software Stack on Fujitsu Server PRIMERGY.

Fujitsu - Family Membership

Storage Server Family	Members
ETERNUS CS8000 series	ETERNUS CS8050, ETERNUS CS8200, ETERNUS CS8400, ETERNUS CS8800

H3C

H3C - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
CP3310 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3352 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3352 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3354 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3354 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5510 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5510 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5550 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5550 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP6660 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP6660 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.

H3C - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP3310 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12
CP3352 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12
CP3352 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12 [4]
CP3354 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12
CP3354 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12 [4]
CP5510 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12
CP5510 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12 [4]
CP5550 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12
CP5550 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12 [4]
CP6660 [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12
CP6660 [1] [2] [3]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	7	12 [4]

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
4. Fibre Channel data path is supported on SLES 11 GA through SP2 with StoreOnce software versions earlier than 3.13.1. Fibre Channel data path is supported on SLES 11 SP3 and later updates with StoreOnce software versions 3.13.1 or later.

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with NetBackup Appliance and Flex Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce 2000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 2000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 2000 series [2] [3] [4]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3000 series [2] [3] [4]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [1] [2] [5]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [2] [3] [4] [6]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [2] [3] [4] [5] [6]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500/3600 series [2] [3] [4] [7]	4.4	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
StoreOnce 3500/3600 series [2] [3] [4] [7]	4.4	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
StoreOnce 4000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 4000 series [1] [2] [5]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 4000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

Hewlett Packard Enterprise - Support with NetBackup Appliance and Flex Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce 4000 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 4000 series [2] [3] [4]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 4000 series [2] [3] [4] [5]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [1] [2] [5]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [2] [3] [4] [6]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [2] [3] [4] [5] [6]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [2] [3] [4] [7]	4.4	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
StoreOnce 5000 series [2] [3] [4] [7]	4.4	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes
StoreOnce 6000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [1] [2] [5]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [2] [3] [4]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [2] [3] [4] [5]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce VSA (Hyper-V) [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce VSA (Hyper-V) [2] [3] [4]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

Hewlett Packard Enterprise - Support with NetBackup Appliance and Flex Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce VSA (VMware) [1] [2] [8]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce VSA (VMware) [2] [3] [8]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce VSA (VMware) [2] [3] [4] [6] [8]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce VSA (VMware) [2] [3] [4] [7] [8]	4.4	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	Yes	Yes

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Reverse A.I.R. is supported with this solution. For more information on replicating an image back to the source primary server, see [Auto Image Replication \(AIR\): How To move a copy of an image back to the source <https://www.veritas.com/support/en_US/article.100009391>](https://www.veritas.com/support/en_US/article.100009391)
4. This device supports concurrent backups to OST storage servers and to VTL emulated tape drives.
5. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
6. Support on Windows server requires NetBackup 8.3.0.1 or later.
7. WORM support requires plug-in version 4.4.0 or later, StoreOnce software version 4.3.2-2221.21 or later and NetBackup 8.3.0.1 or later.
8. This device is a virtual appliance. For compatible versions of VMware, see Hewlett Packard Enterprise's and VMware's compatibility lists.

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 2000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 2000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 2000 series [2] [3] [5]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce 3000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 3000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce 3000 series [2] [3] [5]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce 3500/3600 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 3500/3600 series [1] [2] [6]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12 [7]
StoreOnce 3500/3600 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce 3500/3600 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	No	No	7 [4]	12

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 3500/3600 series [2] [3] [5] [8]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 3500/3600 series [2] [3] [5] [6] [8]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce 3500/3600 series [2] [3] [5] [9]	4.4	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 3500/3600 series [2] [3] [5] [9]	4.4	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 4000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 4000 series [1] [2] [6]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 4000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce 4000 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	No	No	7 [4]	12

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 4000 series [2] [3] [5]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce 4000 series [2] [3] [5] [6]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce 5000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 5000 series [1] [2] [6]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 5000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce 5000 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	No	No	7 [4]	12
StoreOnce 5000 series [2] [3] [5] [8]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 5000 series [2] [3] [5] [6] [8]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 5000 series [2] [3] [5] [9]	4.4	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 5000 series [2] [3] [5] [9]	4.4	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 6000 series [1] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 6000 series [1] [2] [6]	4.0	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce 6000 series [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce 6000 series [2] [3]	4.2	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	No	No	7 [4]	12
StoreOnce 6000 series [2] [3] [5]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce 6000 series [2] [3] [5] [6]	4.3	Fibre Channel	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce VSA (Hyper-V) [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce VSA (Hyper-V) [2] [3] [5]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	No	No	No	No	7, 8	12, 15
StoreOnce VSA (VMware) [1] [10] [2]	4.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	No	No	No	7	12
StoreOnce VSA (VMware) [10] [2] [3]	4.2	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	No	7 [4]	12, 15
StoreOnce VSA (VMware) [10] [2] [3] [5] [8]	4.3	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce VSA (VMware) [10] [2] [3] [5] [9]	4.4	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Reverse A.I.R. is supported with this solution. For more information on replicating an image back to the source primary server, see [Auto Image Replication \(AIR\): How To move a copy of an image back to the source <https://www.veritas.com/support/en_US/article.100009391>](https://www.veritas.com/support/en_US/article.100009391)
4. The Red Hat plug-in is also supported with CentOS 7.
5. This device supports concurrent backups to OST storage servers and to VTL emulated tape drives.
6. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
7. Fibre Channel data path is supported on SLES 11 GA through SP2 with StoreOnce software versions earlier than 3.13.1. Fibre Channel data path is supported on SLES 11 SP3 and later updates with StoreOnce software versions 3.13.1 or later.

- 8. Support on Windows server requires NetBackup 8.3.0.1 or later.
- 9. WORM support requires plug-in version 4.4.0 or later, StoreOnce software version 4.3.2-2221.21 or later and NetBackup 8.3.0.1 or later.
- 10. This device is a virtual appliance. For compatible versions of VMware, see Hewlett Packard Enterprise's and VMware's compatibility lists.

Hewlett Packard Enterprise - Family Membership

Storage Server Family	Members
StoreOnce 2000 series	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900
StoreOnce 3000 series	StoreOnce 3100
StoreOnce 3500/3600 series	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640, StoreOnce 3660
StoreOnce 4000 series	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900
StoreOnce 5000 series	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5650
StoreOnce 6000 series	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200

Infinidat

Infinidat - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
InfiniGuard B-series	10.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes

Infinidat - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
InfiniGuard B-series	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
InfiniGuard B-series	10.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	12, 15
InfiniGuard B-series [1]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	No

1. Targeted_A.I.R support on NetBackup 10.1 and NetBackup 10.1.1 requires Emergency Engineering Binary (EEB). Contact Veritas Support and ask for the EEB associated with Etrack 4092071 for NetBackup 10.1 and Etrack 4105018 for NetBackup 10.1.1.

Infinidat - Family Membership

Storage Server Family	Members
InfiniGuard B-series	InfiniGuard B4212N, InfiniGuard B4260, InfiniGuard B4260N, InfiniGuard B4306, InfiniGuard B4312, InfiniGuard B4320

NEC

NEC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.9	Ethernet	No	A.I.R., Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.10	Ethernet	No	A.I.R., Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.11	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1] [2]	2.12	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) [1]	2.11	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) [1] [2]	2.12	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15

NEC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance [1]	2.11	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance [1] [2] [3]	2.12	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15

1. Auto Image Replication must be configured according to the "Custom A.I.R. Configuration" specified in NEC's white paper "OpenStorage (OST) Auto Image Replication Setup Guide", which may be obtained from NEC.

2. WORM support requires NetBackup 8.3.0.1 or later.

3. Support on RHEL 9 requires NetBackup 10.3 or later and NEC OST plug-in 2.12.5 or later.

NEC - Family Membership

Storage Server Family	Members
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	HYDRAsstor HS3-410, HYDRAsstor HS8-4001S, HYDRAsstor HS8-4002S, HYDRAsstor HS8-4006R, HYDRAsstor HS8-4165, iStorage HS3-40, iStorage HS8-40, NEC Storage HS3-40, NEC Storage HS8-40
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen)	HYDRAsstor HS3-510, HYDRAsstor HS8-5000, iStorage HS3-50, iStorage HS8-50, NEC Storage HS3-50, NEC Storage HS8-50
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance	HYDRAsstor HS24-514, iStorage HS24-514, NEC Storage HS24-514

Oracle

Oracle - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ZFS Storage Appliance series	1.1	Ethernet	No	Opt_Dup	No	7	12
ZFS Storage Appliance series	1.1	Fibre Channel	No	Opt_Dup	No	7	12
ZFS Storage Appliance series [1]	2.0	Ethernet	No	Opt_Dup	Datacenter	7	12
ZFS Storage Appliance series [1]	2.0	Fibre Channel	No	Opt_Dup	No	7	12

1. Oracle inline deduplication is supported with MS-Windows and Standard backup policy types. Disable inline duplication when using any other backup policy type.

Oracle - Family Membership

Storage Server Family	Members
ZFS Storage Appliance series	ZFS Storage 7110, ZFS Storage 7120, ZFS Storage 7210, ZFS Storage 7310, ZFS Storage 7320, ZFS Storage 7410, ZFS Storage 7420, ZFS Storage 7430, ZFS Storage ZS3-2, ZFS Storage ZS3-4, ZFS Storage ZS4-4, ZFS Storage ZS5-2, ZFS Storage ZS5-4

Quantum

Quantum - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
DXi4000 Series	3.1	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DXi4000 Series	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DXi4700 Series [1]	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi4700 Series [1]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi4800 Series [1]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi4800 Series [2] [3] [4]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
DXi4800 Series [2] [3] [4] [5]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Yes	Yes
DXi6000 Series [6]	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6000 Series [6]	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6700 Series	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6700 Series	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6800 Series [1]	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6800 Series [1]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6900 Series [1]	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6900 Series [1]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6900 Series [2] [3] [7]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
DXi8500 Series	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes

Quantum - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
DXi8500 Series	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi9000 Series [1]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi9000 Series [2] [3] [4]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
DXi9000 Series [2] [3] [4] [5]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Yes	Yes
DXi V Series [8]	3.1	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DXi V Series [8]	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DXi V Series [2] [3] [4] [8]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
DXi V Series [2] [3] [4] [5] [8]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Yes	Yes

1. Accelerator support requires DXi Software 3.1 or later.
2. Reverse A.I.R. is supported with this solution. For more information on replicating an image back to the source primary server, see [Auto Image Replication \(AIR\): How To move a copy of an image back to the source <https://www.veritas.com/support/en_US/article.100009391>](https://www.veritas.com/support/en_US/article.100009391)
3. Targeted A.I.R. is supported in One-to-One, Many-to-One, and Cascading A.I.R. configurations.
4. Targeted A.I.R. support requires DXi Software 4.1 or later.
5. WORM support requires plug-in version 11.0.0-4724 or later, Quantum DXi Software 4.5.2 or later and NetBackup 8.3.0.1 or later.
6. The Direct Copy to shared tape drives feature (Direct_Copy_Shared) is supported on the DXi6540 and DXi6550 models.
7. Targeted A.I.R. support requires DXi Software 3.4.0.5 or later.
8. This device is a virtual appliance. For compatible versions of VMware, see Quantum's and VMware's compatibility lists.

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi4000 Series	2.9	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi4000 Series	3.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi4000 Series	3.1	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi4000 Series	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
DXi4700 Series [1]	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi4700 Series [1] [2]	3.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi4700 Series [2]	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi4700 Series [2]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
DXi4800 Series [2]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
DXi4800 Series [3] [4] [5]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
DXi4800 Series [3] [4] [5] [6]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	No
DXi6000 Series [7]	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi6000 Series [7]	3.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi6000 Series [7]	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi6000 Series [7]	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
DXi6700 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi6700 Series	3.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi6700 Series	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi6700 Series	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
DXi6800 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi6800 Series [2]	3.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi6800 Series [2]	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi6800 Series [2]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
DXi6900 Series [1]	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi6900 Series [2]	3.0	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi6900 Series [2]	3.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi6900 Series [2]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
DXi6900 Series [3] [4] [8]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
DXi8500 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi8500 Series	3.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi8500 Series	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi8500 Series	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
DXi9000 Series [2]	10.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	No	7	12, 15
DXi9000 Series [3] [4] [5]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi9000 Series [3] [4] [5] [6]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	No
DXi V Series [9]	2.9	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	No	No	No
DXi V Series [9]	3.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi V Series [9]	3.1	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	No	7	12
DXi V Series [9]	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	No	No	7	12
DXi V Series [3] [4] [5] [9]	10.1	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
DXi V Series [3] [4] [5] [6] [9]	11.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8	No

1. Direct Copy to Tape support requires DXi Software 3.0 or later.
2. Accelerator support requires DXi Software 3.1 or later.
3. Reverse A.I.R. is supported with this solution. For more information on replicating an image back to the source primary server, see [Auto Image Replication \(AIR\): How To move a copy of an image back to the source <https://www.veritas.com/support/en_US/article.100009391>](https://www.veritas.com/support/en_US/article.100009391)
4. Targeted A.I.R. is supported in One-to-One, Many-to-One, and Cascading A.I.R. configurations.
5. Targeted A.I.R. support requires DXi Software 4.1 or later.
6. WORM support requires plug-in version 11.0.0-4724 or later, Quantum DXi Software 4.5.2 or later and NetBackup 8.3.0.1 or later.
7. The Direct Copy to shared tape drives feature (Direct_Copy_Shared) is supported on the DXi6540 and DXi6550 models.
8. Targeted A.I.R. support requires DXi Software 3.4.0.5 or later.
9. This device is a virtual appliance. For compatible versions of VMware, see Quantum's and VMware's compatibility lists.

Quantum - Family Membership

Storage Server Family	Members
DXi4000 Series	DXi4510, DXi4520, DXi4601
DXi4700 Series	DXi4701
DXi4800 Series	DXi4800, DXi4801
DXi6000 Series	DXi6510, DXi6520, DXi6530, DXi6540, DXi6550
DXi6700 Series	DXi6700, DXi6701, DXi6702
DXi6800 Series	DXi6802
DXi6900 Series	DXi6900, DXi6900-S
DXi8500 Series	DXi8500, DXi8500 2TB, DXi8500 3TB
DXi9000 Series	DXi9000, DXi9100
DXi V Series	DXi V5000

Quest

Quest - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64
DR 13g Series	4.0	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	No	No	7
QoreStor [1]	4.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	Datacenter	7 [2]

1. A.I.R. support requires QoreStor SDS 6.1 storage server software.

2. A.I.R. is supported with this media server platform.

Quest - Family Membership

Storage Server Family	Members
DR 13g Series	DR4300, DR4300e, DR6300

Veritas

Veritas - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Veritas Access 3340 Appliance	NetBackup 8.0 and later	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	7	12
Veritas Access 3340/3350 Appliance	NetBackup 10.0 and later	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Datacenter	Datacenter	7	12

Virtual Tape Libraries

Virtual tape device support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances and with Linux/Windows operating systems. The tables provide information on supported versions of software, inquiry string (vendor ID + product ID), and other important notes about the hardware and its compatibility.

Contents

<u>Virtual Tape Libraries/Drives - Considerations</u>	<u>Virtual Tape Libraries/Drives - Tape Drive Emulation Attributes</u>	<u>Virtual Tape Libraries/Drives - NetBackup Robot Types</u>
<u>Virtual Tape Libraries/Drives - Vendor Compatibility</u>		

Virtual Tape Libraries/Drives - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> Virtual tape device software versions are no longer listed in this section. Veritas recommends using the most recent version of software available when you configure the VTL with NetBackup. When a minimum VTL software version is required, it will be listed in a footnote. If a VTL software version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSA.net. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported. Where support is shown for "Windows Server 2022 Datacenter" it also means that the other editions of Windows Server 2022 are supported. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported. SUSE Linux Enterprise Server 12 support requires SP3 or later.
Vendor support considerations	<ol style="list-style-type: none"> Check the device manufacturer's compatibility list to verify OS platform support for the version of software running on your VTL. Check the device manufacturer's compatibility list to verify the minimum version of VTL software required for your VTL family member. The list of attributes for each drive emulation is based on the most recent version of Virtual tape device software tested. Check with the device manufacturer to determine when support for a specific attribute was added.
Configuration considerations	<ol style="list-style-type: none"> The virtual library must be configured with the unique VTL inquiry string as listed. Using the inquiry string to emulate a real library model is not supported even if the real device is supported with NetBackup. Only the virtual tape drive emulations listed with each virtual library are supported. Other virtual tape drive emulations are not supported even if the real device being emulated is supported with NetBackup. Conversely, a virtual tape drive emulation listed as supported in this section does not mean the physical model is also supported. Veritas recommends the use of SCSI Persistent Reserve (SPR) whenever all the hardware in your device path supports it. Refer to the NetBackup Administrator's Guide for more information on SPR and the types of configurations where SPR may be more effective than the default SPC-2 SCSI reserve and release method. NetBackup NDMP Direct Copy with VTL enables NDMP tape duplication to physical tape libraries. For more information on this feature, see "About NDMP DirectCopy" <https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/id-SF940150907-131831692> .
OS library and tape driver considerations	<ol style="list-style-type: none"> Refer to the Tape Drives section of this document for information on supported tape drivers.

Subject	Notes
Operational considerations	<ol style="list-style-type: none"> 1. Filling up the available disk space on a virtual device may cause unpredictable behavior of the device. Working with the device vendor may be required to recover from errors that result from a full disk. 2. NetBackup NDMP Direct Copy with VTL Copying virtual media to physical media or a 2nd virtual media is not supported by Veritas; any support for this must come from the VTL vendor providing the capability. If the VTL copies virtual media to physical media (or a 2nd VTL), NetBackup is not aware of the physical media or 2nd virtual media and may not be able to recover that data directly from it. 3. When NetBackup expires a virtual volume, the virtual device is not aware that the data is no longer needed. Because of this, the virtual device may appear to be much closer to capacity than it really is. When NetBackup subsequently begins writing to that virtual volume at the beginning of the volume, the virtual library will then be aware that the rest of the data is no longer needed and can free up the disk space.

Virtual Tape Libraries/Drives - Tape Drive Emulation Attributes

The following table lists attributes supported with Virtual Tape Libraries and indicates the NetBackup version (9.0 or later) at which that attribute was first supported.

Attribute	Abbreviation	NetBackup 10.0 (or later) Start of Support
NDMP Direct Copy with VTL, physical tape drives used with this feature must be dedicated to the VTL.	DirCpy_Ded	10.0
NDMP Direct Copy with VTL, physical tape drives used with this feature can be shared using NetBackup Shared Storage Option (SSO).	DirCpy_Shr	10.0
SCSI Reservation	SResv	10.0
SCSI Persistent Reservation	SPR	10.0
Write Once, Read Many	WORM	10.0
NetBackup Encryption Key Management Service	KMS	10.0
Append-only mode	Append	10.0

Virtual Tape Libraries/Drives - NetBackup Robot Types

Most Virtual Tape Libraries use the NetBackup robot type TLD. The following table lists operating system platform support for TLD robots. For supported OS versions, refer to the ["NetBackup 10.0 - 10.x.x Operating System Software Compatibility List"](https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf) <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .

A few Virtual Tape Libraries use NetBackup robot type ACS. For information on ACS robotics support, see [ACS - Oracle Automated Cartridge System](#) in the Tape Libraries section.

For more information about configuring robot types, see the ["NetBackup Device Configuration Guide"](#) <https://www.veritas.com/content/support/en_US/doc/23395442-133128031-0/index> .

TLD - Tape Library DLT

Operating System	NetBackup 10.0 (or later) Start of Support
NDMP	10.0
Red Hat Enterprise Linux on x86-64	10.0
SUSE Linux Enterprise Server on x86-64	10.0
Windows Server 2012 x64	10.0

TLD - Tape Library DLT

Operating System	NetBackup 10.0 (or later) Start of Support
Windows Server 2016 x64	10.0
Windows Server 2019 x64	10.0
Windows Server 2022 x64	10.0

Virtual Tape Libraries/Drives - Vendor Compatibility

Contents

<u>Amazon</u>	<u>Dell EMC</u>	<u>Dell EMC Data Domain</u>
<u>FalconStor</u>	<u>Fujitsu</u>	<u>H3C</u>
<u>Hewlett Packard Enterprise</u>	<u>Hitachi Vantara</u>	<u>Huawei</u>
<u>IBM</u>	<u>Infinidat</u>	<u>NEC</u>
<u>Oracle</u>	<u>Quantum</u>	<u>Quest</u>
<u>Spectra Logic</u>	<u>Tandberg</u>	

Amazon

Amazon - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64
AWS Storage Gateway VTL - iSCSI [1] [2] [3]	IBM LTO - all generations	Latest from Manufacturer	AWS^Gateway-VTL		Datacenter	Datacenter	Datacenter	7

1. Please refer to [AWS documentation <http://docs.aws.amazon.com/storagegateway/latest/userguide/Requirements.html>](http://docs.aws.amazon.com/storagegateway/latest/userguide/Requirements.html) for hypervisor and host requirements.
2. The AWS Storage Gateway VTL is also supported when deployed as an Amazon EC2 instance.
3. This solution uses S3 and Glacier storage. Before deployment, please refer to [Best Practices for using Veritas Backup products \(NetBackup, Backup Exec\) with the Amazon Web Services \(AWS\) Storage Gateway-VTL <http://www.veritas.com/docs/100014745>](http://www.veritas.com/docs/100014745) .

Dell EMC

Dell EMC - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
DL3D series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^DL1500		Yes	Yes
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^Disk^Library	DirCpy_Shr	Yes	Yes
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^Disk^Library	DirCpy_Shr	Yes	Yes

Dell EMC - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DL3D series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^DL1500		Datacenter	Datacenter	Datacenter	7	12, 15
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^Disk^Library	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^Disk^Library	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DR Series (Dell) - iSCSI	IBM LTO - all generations	Latest from Manufacturer	DELL^DR_L700		Datacenter	No	No	No	No

Dell EMC - Family Membership

VTL Family - Interface	Members
DL3D series - Fibre Channel	DL1500, DL3000

Dell EMC Data Domain

Dell EMC Data Domain - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
Appliance Series - Fibre Channel [1] [2]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Yes	Yes
Appliance Series - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Yes	Yes

1. The ADIC inquiry string is supported with VTL software version 5.3 and later.
2. The Quantum inquiry string is supported with VTL software version 5.5 and later.

Dell EMC Data Domain - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Appliance Series - Fibre Channel [1] [2]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Datacenter	Datacenter	Datacenter	7	12, 15
Appliance Series - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Datacenter	Datacenter	Datacenter	7, 8	12, 15
Appliance Series - NDMP	IBM LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		No	No	No	No	12

1. The ADIC inquiry string is supported with VTL software version 5.3 and later.
2. The Quantum inquiry string is supported with VTL software version 5.5 and later.

Dell EMC Data Domain - Family Membership

VTL Family - Interface	Members
Appliance Series - Fibre Channel	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900
Appliance Series - NDMP	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900

FalconStor

FalconStor - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
VirtualTape Library - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^VTL		Yes	Yes
VirtualTape Library - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL		Yes	Yes
VirtualTape Library - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FALCON^VTL		Yes	Yes
VirtualTape Library - Fibre Channel	Oracle StorageTek T10000 - all generations	Latest from Manufacturer	FALCON^VTL		Yes	Yes

FalconStor - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Fujitsu - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^CS-TL		No	No	No	7	12
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^CS-TL		No	No	No	7	12
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
ETERNUS CS800 S6 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
ETERNUS CS800 S6 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
ETERNUS CS800 S7 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	No	7	12
ETERNUS CS800 S7 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Datacenter	Datacenter	No	7	12

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Fujitsu - Family Membership

VTL Family - Interface	Members
ETERNUS CS (ACS) - Fibre Channel	ETERNUS CS50 (ACS), ETERNUS CS500 (ACS), ETERNUS CS1000 (ACS), ETERNUS CS1500 (ACS), ETERNUS CS2000 (ACS), ETERNUS CS3000 (ACS), ETERNUS CS4000 (ACS), ETERNUS CS5000 (ACS), ETERNUS CS8000 (ACS)
ETERNUS CS - Fibre Channel	ETERNUS CS50, ETERNUS CS500, ETERNUS CS1000, ETERNUS CS1500, ETERNUS CS2000, ETERNUS CS3000, ETERNUS CS4000, ETERNUS CS5000, ETERNUS CS8000

H3C

H3C - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
CP3352 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Yes	Yes
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Yes	Yes
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Yes	Yes
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Yes	Yes
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Yes	Yes

H3C - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP3352 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Datacenter	No	No	7	12
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		Datacenter	No	No	7	12

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
StoreOnce 3500 / 3600 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
StoreOnce 4000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
StoreOnce 6000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes

1. The IBM inquiry string is supported with StoreOnce software version 3.11 and later.

Hewlett Packard Enterprise - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 3500 / 3600 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15
StoreOnce 4000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15
StoreOnce 6000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Datacenter	Datacenter	Datacenter	7	12, 15

1. The IBM inquiry string is supported with StoreOnce software version 3.11 and later.

Hewlett Packard Enterprise - Family Membership

VTL Family - Interface	Members
StoreOnce 3500 / 3600 Series - Fibre Channel	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640
StoreOnce 4000 - Fibre Channel	StoreOnce 4210fc, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900
StoreOnce 5000 - Fibre Channel	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5600
StoreOnce 6000 - Fibre Channel	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200

Hitachi Vantara

Hitachi Vantara - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
Hitachi Virtual Tape Library Solutions - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^V3584L32		Yes	Yes

Hitachi Vantara - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Hitachi Virtual Tape Library Solutions - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^V3584L32		7	12

Hitachi Vantara - Family Membership

VTL Family - Interface	Members
Hitachi Virtual Tape Library Solutions - Fibre Channel	ProtecTIER

Huawei

Huawei - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
VTL - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL		Yes	Yes

Huawei - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
VTL - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Huawei - Family Membership

VTL Family - Interface	Members
VTL - Fibre Channel	VTL3500, VTL6000

IBM

IBM - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
System Storage TS7600 series with ProtecTIER - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^V3584L32		Yes	Yes
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC^VTF		Yes	Yes
System Storage TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^3584L32		Yes	Yes
Virtualization Engine TS7510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7510		Yes	Yes
Virtualization Engine TS7510 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^TS7510		Yes	Yes
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	Yes	Yes

1. NDMP Direct Copy with VTL support requires patch update ve138205g for 2.0 systems and update ve13821201 for 2.2 systems.
2. The failover feature of the TS7520 has been tested and found to be compatible with NetBackup. Support for the TS7520 failover feature is provided by IBM.

IBM - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
System Storage TS7600 series with ProtecTIER - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^V3584L32		Datacenter	Datacenter	Datacenter	7	12, 15
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC^VTF		Datacenter	Datacenter	Datacenter	7	12, 15
System Storage TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^3584L32		Datacenter	Datacenter	Datacenter	7	12, 15
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	Datacenter	Datacenter	Datacenter	7	12, 15

IBM - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^~^~^TS7530	DirCpy_Ded	No	No	No	7	12
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^~^~^TS7530	DirCpy_Ded	No	No	No	7	12

IBM - Family Membership

VTL Family - Interface	Members
System Storage TS7600 series with ProtecTIER - Fibre Channel	System Storage TS7610SM1 ProtecTIER (V-TS3500), System Storage TS7620SM2 ProtecTIER (V-TS3500), System Storage TS7650AP1 ProtecTIER (V-TS3500), System Storage TS7650G ProtecTIER (V-TS3500)

Infinidat

Infinidat - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
InfiniGuard B-series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
InfiniGuard B-series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Infinidat - Family Membership

VTL Family - Interface	Members
InfiniGuard B-series - Fibre Channel	InfiniGuard B4212N, InfiniGuard B4260, InfiniGuard B4260N

NEC

NEC - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
T3000VT Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~V3584L32		Yes	Yes

NEC - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
T3000VT Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~V3584L32		7	12

NEC - Family Membership

VTL Family - Interface	Members
T3000VT Series - Fibre Channel	T3200VT (V-TS3500)

Oracle

Oracle - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
StorageTek VSM 7 - Ethernet [1]	Oracle VDrive	Latest from Manufacturer			Datacenter	7

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Quantum

Quantum - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
DXi4700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes

Quantum - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi4700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi4800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi4800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Quantum - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi9000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
DXi9000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Quantum - Family Membership

VTL Family - Interface	Members
DXi4700 Series - Fibre Channel	DXi4701
DXi4800 Series - Fibre Channel	DXi4800
DXi6800 Series - Fibre Channel	DXi6802
DXi6900 Series - Fibre Channel	DXi6900, DXi6900-S
DXi7500 Series - Fibre Channel	DXi7500, DXi7500 Enterprise, DXi7500 Express, DXi7500-N
DXi9000 Series - Fibre Channel	DXi9000, DXi9100

Quest

Quest - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64
DR 13g Series (Dell) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DELL^^^DR_L700		Datacenter	Datacenter	Datacenter	7

Quest - Family Membership

VTL Family - Interface	Members
DR 13g Series (Dell) - Fibre Channel	DR4300 (Dell), DR4300e (Dell), DR6300 (Dell)

Spectra Logic

Spectra Logic - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Yes	Yes

Spectra Logic - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Tandberg

Spectra Logic - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Yes	Yes

Spectra Logic - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Datacenter	Datacenter	Datacenter	7	12, 15

Tandberg - Family Membership

VTL Family - Interface	Members
DPS1000 Series VTL - iSCSI	DPS1100 VTL, DPS1200 VTL

Tape Libraries

Tape library support information is listed below. This information is organized by vendor and provides information on the inquiry string (vendor ID + product ID), the method(s) of controlling the robot, and any other important notes about the hardware and its compatibility.

Contents

Tape Libraries - Considerations	Tape Libraries - NetBackup Robot Types	Tape Libraries - Legend
Tape Libraries - Vendor Compatibility		

Tape Libraries - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> The tables in this section show robotic support only, not tape drive support. Refer to the Tape Drives section of this document to ensure that the specific drive used in the library is supported on the desired OS platform(s). The library vendor must also support the library and drive combination. Firmware versions are not listed in this section. Veritas recommends using the most recent version of firmware available when you configure the library with NetBackup. When a minimum firmware version is required, it will be listed in the Notes column. If a firmware version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSANet. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server. For ACS robots the "Inquiry String" column is intentionally left blank. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported. SUSE Linux Enterprise Server 12 support requires SP3 or later. SAS Tape Libraries are not supported on NetBackup 5x50 and later series appliances.
Configuration considerations	<ol style="list-style-type: none"> Library partitioning is supported unless noted otherwise. Library expansion modules are supported unless noted otherwise. Configuring persistent robotic paths for Linux media servers is supported with NetBackup 8.3 and later. To enable this functionality, you can download a Linux rules file from the Veritas Support Downloads Center <https://www.veritas.com/content/support/en_US/downloads/update.UPD961531.html> . When the downloaded rules file is installed in the specified directory, NetBackup uses /dev/tape/by-path type paths that persist across SAN interruptions. If this rules file is not present, NetBackup continues to use the /dev/sg type paths.

Tape Libraries - NetBackup Robot Types

These tables list operating system platform support for each NetBackup robotic daemon type. For more information about configuring robot types, see the "[NetBackup Device Configuration Guide](#)" [<https://www.veritas.com/content/support/en_US/doc/23395442-133128031-0/index>](https://www.veritas.com/content/support/en_US/doc/23395442-133128031-0/index) .

Tape Libraries - ACS Robot Type Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" .<https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> 1. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server. 2. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported.
Vendor support considerations	<ol style="list-style-type: none"> 1. The ACSLS version must be currently supported by Oracle. 2. ACSLS 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.5.1 and 8.5.2 are supported with NetBackup 10.0 and later. Earlier ACSLS versions are not supported. 3. The Logical Libraries feature introduced in ACSLS 8.0 is supported with libraries for which both ACS and TLD support is listed. 4. LibAttach is required with Windows media servers. The LibAttach version must be currently supported by Oracle. 5. LibAttach 1.4.2 and 1.4.3 are supported with NetBackup 10.0 and later. Earlier LibAttach versions are not supported.
Configuration considerations	<ol style="list-style-type: none"> 1. If a version of ACSLS contains a media type that is not yet supported by NetBackup, that media type can be configured as type UNKNOWN. NetBackup can support one and only one UNKNOWN media type. However, if errors or anomalies occur, upgrading NetBackup to a version where the media type is supported may be necessary. In general, Veritas testing occurs at the NetBackup version level where the new media type support is added, or at a level where known bugs are addressed.

ACS - Oracle Automated Cartridge System - Supported Operating Systems

Operating System	NetBackup 10.0 (or later) Start of Support
NDMP	10.0
Red Hat Enterprise Linux on x86-64	10.0
SUSE Linux Enterprise Server on x86-64	10.0
Windows Server 2012 x64	10.0 [1]
Windows Server 2016 x64	Not supported
Windows Server 2019 x64	Not supported
Windows Server 2022 x64	Not supported

1. Requires LibAttach 1.4.3 from Oracle.

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 10.0 (or later) Start of Support
4480	10.0
4490	10.0
4890	10.0
9490	10.0
9491	10.0
9840	10.0
9840-3590	10.0
9940-3590	10.0
CER-LTO	10.0
CER-LTO-2	10.0
CER-LTO-3	10.0
DLT2000	10.0
DLT2000XT	10.0
DLT4000	10.0
DLT7000	10.0
DLT8000	10.0
DLT-S4	10.0
HP-LTO	10.0
HP-LTO-2	10.0
HP-LTO-3	10.0
HP-LTO-4	10.0
HP-LTO-5	10.0
HP-LTO-6	10.0
HP-LTO-7	10.0
IBM-LTO	10.0
IBM-LTO-2	10.0
IBM-LTO-3	10.0
IBM-LTO-4	10.0
IBM-LTO-5	10.0
IBM-LTO-6	10.0
IBM-LTO-7	10.0

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 10.0 (or later) Start of Support
IBM-LTO-8	10.0
IBM-LTO-9	10.0.0.1
QNT-LTO-4	10.0
SD3	10.0
SDLT	10.0
SDLT-320	10.0
SDLT-600	10.0
T1A	10.0
T1A35	10.0
T1AE	10.0
T1AE35	10.0
T1B	10.0
T1B35	10.0
T1BE	10.0
T1BE35	10.0
T1C	10.0
T1C35	10.0
T1CE	10.0
T1CE35	10.0
T1D	10.0
T1D35	10.0
T1DE	10.0
T1DE35	10.0
T1D-Eth	10.0
T1DpEth	10.0
T9840B	10.0
T9840B35	10.0
T9840C	10.0
T9840C35	10.0
T9840CE	10.0
T9840CE5	10.0
T9840D	10.0

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 10.0 (or later) Start of Support
T9840D35	10.0
T9840DE	10.0
T9840DE5	10.0
T9940A	10.0
T9940B	10.0
T9940B35	10.0
VDRIVE	10.0
VIRT-DRV	10.0

ACS - Oracle Automated Cartridge System - Supported Media Types

ACSL Media Types	NetBackup 10.0 (or later) Start of Support
3480	10.0
3490E	10.0
DD3A	10.0
DD3B	10.0
DD3C	10.0
DD3D	10.0
DLTIII	10.0
DLTIII XT	10.0
DLTIV	10.0
EECART	10.0
JLABEL	10.0
KLABEL	10.0
LTO_1_5_T	10.0
LTO_1_5_W	10.0
LTO_2_5_T	10.0
LTO_2_5_W	10.0
LTO_6_4_T	10.0
LTO_6_4_W	10.0

ACS - Oracle Automated Cartridge System - Supported Media Types

ACSLs Media Types	NetBackup 10.0 (or later) Start of Support
LTO_12_T	10.0
LTO_12_W	10.0
LTO_18_T	10.0.0.1
LTO_18_W	10.0.0.1
LTO_10GB	10.0
LTO_35GB	10.0
LTO_50GB	10.0
LTO_100G	10.0
LTO_200G	10.0
LTO_400G	10.0
LTO_400W	10.0
LTO_800G	10.0
LTO_800W	10.0
LTO_CLN1	10.0
LTO_CLN2	10.0
LTO_CLN3	10.0
LTO_CLNU	10.0
SDLT	10.0
SDLT_2	10.0
SDLT_4	10.0
SDLT_S1	10.0
SDLT_S2	10.0
SDLT_S3	10.0
SDLT_S4	10.0
STK1R	10.0
STK1U	10.0
STK1Y	10.0
STK2P	10.0
STK2W	10.0
T10000CC	10.0
T10000CL	10.0
T10000CT	10.0

ACS - Oracle Automated Cartridge System - Supported Media Types

ACSL Media Types	NetBackup 10.0 (or later) Start of Support
T10000T1	10.0
T10000T2	10.0
T10000TS	10.0
T10000TT	10.0
VIRTUAL	10.0
VCART	10.0

TLD - Tape Library DLT - Supported Operating Systems

Operating System	NetBackup 10.0 (or later) Start of Support
NDMP	10.0
Red Hat Enterprise Linux on x86-64	10.0
SUSE Linux Enterprise Server on x86-64	10.0
Windows Server 2012 x64	10.0
Windows Server 2016 x64	10.0
Windows Server 2019 x64	10.0
Windows Server 2022 x64	10.0

Tape Libraries - Legend

The following table describes terms and symbols used in the Tape Libraries - Vendor Compatibility tables.

Tape Libraries - Legend

Value	Meaning
Multi LUN	The device is a Multi-LUN based library.
SCSI ID	The device is a SCSI ID based library.
^	Character used to denote a space in the INQUIRY STRING.

Tape Libraries - Vendor Compatibility

Contents

<u>Dell EMC</u>	<u>Fujitsu</u>	<u>H3C</u>
<u>Hewlett Packard Enterprise</u>	<u>Hitachi Vantara</u>	<u>IBM</u>
<u>NEC</u>	<u>Oracle</u>	<u>Overland Storage</u>
<u>Qualstar</u>	<u>Quantum</u>	<u>Spectra Logic</u>
<u>Tandberg</u>		

Dell EMC

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ML3 - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ML3 - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
PowerVault ML6000 Series - Fibre Channel	ADIC^Scalar^i500	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault TL1000 - SAS	IBM^3572-TL	Multi LUN	TLD	
PowerVault TL2000 - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault TL2000 - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
PowerVault TL4000 - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault TL4000 - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Fujitsu

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ETERNUS LT20 S2 - Fibre Channel	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT20 S2 - SAS	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT40 S2 - Fibre Channel	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT40 S2 - SAS	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT60 S2 - Fibre Channel	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT60 S2 - SAS	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT140 - Fibre Channel	FUJITSU^ETERNUS^LT260	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT140 - SAS	FUJITSU^ETERNUS^LT260	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Fujitsu

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ETERNUS LT260 - Fibre Channel	FUJITSU^ETERNUS^LT260	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT260 - SAS	FUJITSU^ETERNUS^LT260	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT270 S2 - Fibre Channel	ETERNUS^LT270S2	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

H3C

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
CT108 - Fibre Channel	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT108 - SAS	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
CT224 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT224 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
CT448 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT448 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
CT7680 - Fibre Channel	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT7680 - SAS	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Hewlett Packard Enterprise

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
1/8 G2 Tape Autoloader - Fibre Channel	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
1/8 G2 Tape Autoloader - SAS	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ESL G3 - Fibre Channel	HP^ESL^G3^Series	Multi LUN	TLD	The Automated Media Pool (AMP), Control Path Failover and Data Path Failover features are supported. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Hewlett Packard Enterprise

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
MSL2024 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL2024 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL3040 - Fibre Channel	HPE^MSL3040	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL3040 - SAS	HPE^MSL3040	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL4048 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL4048 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL6480 - Fibre Channel	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL6480 - SAS	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL8096 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Hitachi Vantara

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
L1/30A - Fibre Channel	STK^SL150	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
L1/30A - SAS	STK^SL150	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
L2/30A - Fibre Channel	STK^SL150	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
L2/30A - SAS	STK^SL150	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
L20/300 - Fibre Channel	STK^SL150	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
L20/300 - SAS	STK^SL150	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

IBM

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
System Storage TS2900 (Machine Type 3572) - SAS	IBM^3572-TL	Multi LUN	TLD	
System Storage TS3100 (Machine Type 3573) - SAS	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
System Storage TS3200 (Machine Type 3573) - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3200 (Machine Type 3573) - SAS	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
System Storage TS3310 (Machine Type 3576) - Fibre Channel	IBM^3576-MTL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3400 (Machine Type 3577) - Fibre Channel	IBM^3577-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3500 (Machine Type 3584) - Fibre Channel	IBM^03584	Multi LUN	TLD	IBM Advanced Library Management System (ALMS) is supported with the exception of ALMS drive sharing. IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS4300 (Machine Type 3555) - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS4300 (Machine Type 3555) - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
System Storage TS4500 (Machine Type 3584) - Fibre Channel	IBM^03584	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

NEC

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
LL009F - SAS	NEC^LL009F	Multi LUN	TLD	Firmware version 0004 or later is required.
T30A - SAS	NEC^LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
T60A - SAS	NEC^LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
T280 (Machine Type 3555) - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T280 (Machine Type 3555) - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Oracle

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageTek SL150 - Ethernet	STK^SL150	Multi LUN	ACS	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL150 - Fibre Channel	STK^SL150	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL3000 - Ethernet	STK^ACSL-SCSI	SCSI ID	ACS	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL3000 - Fibre Channel	STK^SL3000	SCSI ID	ACS, TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL4000 - Ethernet	STK^ACSL-SCSI	SCSI ID	ACS	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL4000 - Fibre Channel	STK^SL4000	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL8500 - Ethernet	SUN^ACSL-SCSI	SCSI ID	ACS	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Overland Storage

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
NEOs series 3rd Generation - Fibre Channel	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEOs series 3rd Generation - SAS	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEOxI series - Fibre Channel	BDT^MULTISTAK	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEOxI series - SAS	BDT^MULTISTAK	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Qualstar

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Q24 - Fibre Channel	BDT^~~~~FlexStor^II	Multi LUN		This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Q48 - Fibre Channel	BDT^~~~~FlexStor^II	Multi LUN	TLD	This library is also supported with the NetBackup 5200 Series and 5300 Series Appliances.
Q48 - SAS	BDT^~~~~FlexStor^II	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Q80 - Fibre Channel	BDT^~~~~MULTISTAK	Multi LUN	TLD	This library is also supported with the NetBackup 5200 Series and 5300 Series Appliances.
Q80 - SAS	BDT^~~~~MULTISTAK	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Quantum

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Scalar i3 - Fibre Channel	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i3 - SAS	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i6 - Fibre Channel	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	The Scalar i6H model is also supported. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i6 - SAS	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	The Scalar i6H model is also supported. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i500 - Fibre Channel	Quantum^Scalar^i500	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i6000 - Fibre Channel	Quantum^Scalar^i6000	Multi LUN	TLD	Advanced Path Failover drivers for Red Hat Enterprise Linux 6 and Windows 2008 are supported. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
SuperLoader 3 - SAS	QUANTUM^UHDL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Spectra Logic

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Spectra Stack - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	Requires NetBackup Device Mappings files version 1.155 or later. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra Stack - SAS	SPECTRA^PYTHON	Multi LUN	TLD	Requires NetBackup Device Mappings files version 1.155 or later. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Spectra T-Finity - Fibre Channel	SPECTRA^PYTHON	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T50e - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T200 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T380 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T680 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T950 - Fibre Channel	SPECTRA^PYTHON	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Tandberg

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageLibrary T24 - Fibre Channel	EXABYTE^MAGNUM^224	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. This library is available from Overland/Tandberg as the NEOs T24.
StorageLibrary T40+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. This library is available from Overland/Tandberg as the NEOs T48.
StorageLibrary T40+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter. This library is available from Overland/Tandberg as the NEOs T48.
StorageLibrary T80+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T80+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter. This library is available from Overland/Tandberg as the NEOxI 80.
StorageLibrary T120+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. This library is available from Overland/Tandberg as the NEOxI 80.
StorageLibrary T120+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter. This library is available from Overland/Tandberg as the NEOxI 80.

Tandberg

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageLibrary T160+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. This library is available from Overland/Tandberg as the NEOxl 80.
StorageLibrary T160+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter. This library is available from Overland/Tandberg as the NEOxl 80.

Tape Drives

Tape drive support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances and with Linux/Windows operating systems. These tables provide information on the operating system versions supported by the drive, inquiry string (vendor ID + product ID), and other important notes about the hardware and its compatibility.

Contents

[Tape Drives - Considerations](#)

[Tape Drives - Attributes](#)

[Tape Drives - Vendor Compatibility](#)

Tape Drives - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> To ensure support, a device (both drive and library where applicable) must be supported by Veritas, the device manufacturer, and the operating system vendor. Firmware versions are not listed in this section. Veritas recommends using the most recent version of firmware available when you configure the drive with NetBackup. When a minimum firmware version is required, it will be listed in the footnotes. If a firmware version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSANet. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported. Where support is shown for "Windows Server 2022 Datacenter" it also means that the other editions of Windows Server 2022 are supported. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported. The "ULTRIUM-TD" and the "ULT3580-TD" inquiry strings are interchangeable (both are supported), unless noted otherwise. The "ULTRIUM-HH" and the "ULT3580-HH" inquiry strings are interchangeable (both are supported), unless noted otherwise. Backup Exec Tape Reader is not supported in NetBackup 8.0 and later releases. 10. SUSE Linux Enterprise Server 12 support requires SP3 or later. 11. SAS Tapes drives are not supported on NetBackup 5x50 and later series appliances.
Vendor support considerations	<ol style="list-style-type: none"> The list of attributes for each tape drive is based on the most recent drive testing. Check with the device manufacturer to determine the firmware version at which support for a specific attribute was added.
Configuration considerations	<ol style="list-style-type: none"> Veritas recommends the use of SCSI Persistent Reserve (SPR) whenever all the hardware in your device path supports it. Refer to the NetBackup Administrator's Guide for more information on SPR and the types of configurations where SPR may be more effective than the default SPC-2 SCSI reserve and release method. Only tape drives listed in the tables below are supported. Other tape drive models are not supported even if the Virtual Tape Library section shows an emulated version of the drive is supported with NetBackup. For Solaris 10, Veritas recommends running Update 6 (137137-09 for SPARC, 137138-09 for x64) or later.
OS tape driver considerations	<ol style="list-style-type: none"> Except where noted, Veritas recommends the use of the operating system's native tape drivers.

Subject	Notes
Operational considerations	<p>1. Tape Alert functionality is supported by all drives, unless noted otherwise.</p> <p>2. NetBackup supports LTO-7 Type M media, also known as M8 cartridges (LTO-7 cartridges formatted to a new LTO-8 standard, increasing their native capacity), in the following manner:</p> <ul style="list-style-type: none"> - M8 cartridges are supported with LTO-8 tape drives. - M8 cartridges pre-formatted by the media vendor are supported. - LTO-7 cartridges with an M8 barcode formatted as M8 using hardware vendors' software tools or tape library firmware features (automatic or manual) are supported. - NetBackup does not have the ability to convert LTO-7 cartridges with an M8 barcode to M8 format. - For more information on M8 media (for example, formatting methods, supported barcodes, other technical information), please consult the vendor's documentation. <p>3. Uninitialized LTO-9 media is not supported with NetBackup. LTO-9 media must run a one-time characterization/optimization step to calibrate the tape before it can be used for backup. This process can take from 12 minutes to 2 hours. If a NetBackup job is assigned a brand new, uninitialized LTO-9 tape cartridge, the mount may time out and mark the assigned tape drive down.</p> <p>To avoid this scenario, you must initialize new LTO-9 cartridges before putting them into a NetBackup volume pool to use for backup.</p> <p>For more information on LTO-9 media initialization and mitigation solutions, consult the following vendor sites:</p> <p>"HPE StoreOpen Software Linux and Mac 3.5 User Guide - LTO-9 Media Initialization" https://support.hpe.com/hpsc/public/docDisplay?docLocale=en_US&docId=sd00001248en_us&page=GUID-8055E588-A65F-4E79-A37D-07AA053E1756.html</p> <p>"HPE StoreOpen Software 3.5 for Microsoft Windows User Guide - LTO-9 Media Initialization" https://support.hpe.com/hpsc/public/docDisplay?docId=sd00001247en_us&page=GUID-8055E588-A65F-4E79-A37D-07AA053E1756.html</p> <p>"Oracle StorageTek SL150 Modular Tape Library - Library Support of LTO9 Tape Calibration" https://docs.oracle.com/en/storage/tape-storage/storagetek-sl150-modular-tape-library/slofs/library-support-lto9-tape-calibration.html</p> <p>"Overland Tandberg NEO XL-Series LTO-9 New Media Initialization Technical Brief" https://overlandtandberg.atlassian.net/wiki/pages/viewpageattachments.action?pageId=117637233&preview=%2F117637233%2F1481834497%2FNEO%20XL-Series%20LTO-9%20New%20Media%20Initialization%20Technical%20Brief.pdf</p> <p>"Quantum LTO-9 Media - Frequently Asked Questions (FAQ)" <https://www.quantum.com/globalassets/products/tape-storage-new/lto-9/lto-9-quantum-faq-092021.pdf></p> <p>"Spectra Logic - LTO-9 Initialization for Media / LTO-9 Certified Media" <https://spectralogic.com/features/lto-9/></p>

Tape Drives - Attributes

The following table lists attributes supported with Tape Drives and indicates the NetBackup version (10.0 or later) at which that attribute was first supported.

Attribute	Abbreviation	NetBackup Release Supported
SCSI Reservation	SResv	10.0
SCSI Persistent Reservation	SPR	10.0
Write Once, Read Many	WORM	10.0
NetBackup Encryption Key Management Service	KMS	10.0
Append-only mode	Append	10.0

Tape Drives - Vendor Compatibility

Contents

<u>Dell EMC</u>	<u>Hewlett Packard Enterprise</u>	<u>IBM</u>
<u>Oracle</u>	<u>Quantum</u>	<u>Tandberg</u>

Dell EMC

Dell EMC - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
PowerVault LTO-6 - Fibre Channel	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-6 - SAS	IBM~~~~ULTRIUM-HH6	KMS, WORM	Yes [1]	No
PowerVault LTO-6 HH - Fibre Channel	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-7 - Fibre Channel	IBM~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-7 - SAS	IBM~~~~ULTRIUM-HH7	KMS, WORM	Yes [1]	No
PowerVault LTO-7 FH FC - Fibre Channel	IBM~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-8 - Fibre Channel	IBM~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-8 - SAS	IBM~~~~ULTRIUM-HH8	KMS, WORM	Yes [1]	No
PowerVault LTO-8 FH - Fibre Channel	IBM~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-9 - Fibre Channel [2]	IBM~~~~ULTRIUM-HH9	KMS, SResv, SPR	Yes [3]	Yes [3]
PowerVault LTO-9 - SAS [2]	IBM~~~~ULTRIUM-HH9	KMS	Yes [3]	Yes [3]
PowerVault LTO5-140 - SAS	IBM~~~~ULTRIUM-HH5	KMS, WORM	Yes [1]	No
PowerVault LTO5-140 FH - Fibre Channel	IBM~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Yes	Yes

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

2. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**

3. The Device Mappings configuration information for this drive is not yet in a NetBackup Appliance release. To auto-configure this drive with the Device Configuration Wizard, install Device Mappings Files package 1.169 or later on another media server in the configuration and restart the services on the Appliance.

Dell EMC - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
PowerVault LTO-6 - Fibre Channel	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-6 - SAS	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15

Dell EMC - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
PowerVault LTO-6 HH - Fibre Channel	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-7 - Fibre Channel	IBM~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-7 - SAS	IBM~~~~ULTRIUM-HH7	KMS, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-7 FH FC - Fibre Channel	IBM~~~~ULTRIUM-TD7	Append, KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-8 - Fibre Channel	IBM~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-8 - SAS	IBM~~~~ULTRIUM-HH8	KMS, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-8 FH - Fibre Channel	IBM~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
PowerVault LTO-9 - Fibre Channel [1]	IBM~~~~ULTRIUM-HH9	KMS, SResv, SPR	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-9 - SAS [1]	IBM~~~~ULTRIUM-HH9	KMS	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO4 HH - SAS	IBM~~~~ULT3580-HH4		No	No	No	No	No	12
PowerVault LTO4-120 - SAS [2]	IBM~~~~ULTRIUM-TD4		Datacenter	Datacenter	No	No	7	12
PowerVault LTO4-120HH - SAS [2]	IBM~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	Datacenter	No	No	No	No	No
PowerVault LTO5 HH - SAS	IBM~~~~ULT3580-HH5		No	No	No	No	No	12
PowerVault LTO5-140 - SAS	IBM~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
PowerVault LTO5-140 FH - Fibre Channel	IBM~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
PowerVault LTO6 HH - SAS	IBM~~~~ULT3580-HH6		No	No	No	No	No	12

1. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**

2. For information on tape drivers for this device, refer to the "IBM Tape Driver Support" note that follows the IBM listings in the Tape Drives section of this document.

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
Ultrium 1760 LTO4 - Fibre Channel	HP^Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 1840 LTO4 - Fibre Channel	HP^Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 3000 LTO5 - Fibre Channel	HP^Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 3000 LTO5 - SAS	HP^Ultrium^5-SCSI	KMS, WORM	Yes [1]	No
Ultrium 3280 LTO5 - Fibre Channel	HP^Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 3280 LTO5 - SAS	HP^Ultrium^5-SCSI	KMS, WORM	Yes [1]	No
Ultrium 6250 LTO6 - Fibre Channel	HP^Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6250 LTO6 - SAS	HP^Ultrium^6-SCSI	KMS, WORM	Yes [1]	No
Ultrium 6650 LTO6 - Fibre Channel	HP^Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6650 LTO6 - SAS	HP^Ultrium^6-SCSI	KMS, WORM	Yes [1]	No
Ultrium 15000 LTO7 - Fibre Channel	HP^Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 15000 LTO7 - SAS	HP^Ultrium^7-SCSI	KMS, WORM	Yes [1]	No
Ultrium 15750 LTO7 - Fibre Channel	HP^Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 30750 LTO8 - Fibre Channel	HPE^Ultrium^8-SCSI	KMS, SResv, SPR, WORM	Yes [2]	Yes [2]
Ultrium 30750 LTO8 - SAS	HPE^Ultrium^8-SCSI	KMS, WORM	Yes [1] [2]	Yes [2]
Ultrium 45000 LTO9 - Fibre Channel [3]	HPE^Ultrium^9-SCSI	KMS, SResv, SPR, WORM	Yes [4]	Yes [4]
Ultrium 45000 LTO9 - SAS [3]	HPE^Ultrium^9-SCSI	KMS, WORM	Yes [4]	Yes [4]

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.
2. Requires NetBackup Appliance version 3.1 or later with NetBackup Appliance cloud configuration and device mappings updates RPM version 1.0.2 or later.
3. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**
4. The Device Mappings configuration information for this drive is not yet in a NetBackup Appliance release. To auto-configure this drive with the Device Configuration Wizard, install Device Mappings Files package 1.169 or later on another media server in the configuration and restart the services on the Appliance.

Hewlett Packard Enterprise - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Ultrium 1760 LTO4 - Fibre Channel	HP^~~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 1760 LTO4 - SAS	HP^~~~~~Ultrium^4-SCSI		Datacenter	Datacenter	No	No	7	12
Ultrium 1840 LTO4 - Fibre Channel	HP^~~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 1840 LTO4 - SAS	HP^~~~~~Ultrium^4-SCSI		Datacenter	Datacenter	No	No	7	12
Ultrium 3000 LTO5 - Fibre Channel	HP^~~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 3000 LTO5 - SAS	HP^~~~~~Ultrium^5-SCSI		Datacenter	Datacenter	No	No	7	12
Ultrium 3280 LTO5 - Fibre Channel	HP^~~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 3280 LTO5 - SAS	HP^~~~~~Ultrium^5-SCSI		Datacenter	Datacenter	No	No	7	12
Ultrium 6250 LTO6 - Fibre Channel	HP^~~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 6250 LTO6 - SAS	HP^~~~~~Ultrium^6-SCSI		Datacenter	Datacenter	No	No	7	12
Ultrium 6650 LTO6 - Fibre Channel	HP^~~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 6650 LTO6 - SAS	HP^~~~~~Ultrium^6-SCSI		Datacenter	Datacenter	No	No	7	12
Ultrium 15000 LTO7 - Fibre Channel	HP^~~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Ultrium 15000 LTO7 - SAS	HP^~~~~~Ultrium^7-SCSI	KMS, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12
Ultrium 15750 LTO7 - Fibre Channel	HP^~~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 30750 LTO8 - Fibre Channel	HPE^~~~~~Ultrium^8-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Ultrium 30750 LTO8 - SAS	HPE^~~~~~Ultrium^8-SCSI	KMS, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12
Ultrium 45000 LTO9 - Fibre Channel [1]	HPE^~~~~~Ultrium^9-SCSI	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15

Hewlett Packard Enterprise - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Ultrium 45000 LTO9 - SAS [1]	HPE^Ultrium^9-SCSI	KMS, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15

1. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in [Tape Drives - Operational Considerations](#) .**

IBM

IBM - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM~~~~~03592E05	SResv, SPR, WORM	Yes	Yes
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM~~~~~03592E06	SResv, WORM	Yes	Yes
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM~~~~~03592E07	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM~~~~~03592E08	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1160 (3592 Model 60F) - Fibre Channel	IBM~~~~~0359260F	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM~~~~~ULT3580-HH5	KMS, WORM	Yes [1]	No
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2260 Ultrium 6 Half Height - SAS	IBM~~~~~ULT3580-HH6	KMS, WORM	Yes [1]	No
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH7	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM~~~~~ULT3580-HH7	KMS, WORM	Yes [1]	No
System Storage TS2280 Ultrium 8 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH8	KMS, SResv, SPR, WORM	Yes [2]	Yes [2]
System Storage TS2280 Ultrium 8 Half Height - SAS	IBM~~~~~ULT3580-HH8	KMS, WORM	Yes [1] [2]	Yes [2]
System Storage TS2290 Ultrium 9 Half Height - Fibre Channel [3]	IBM~~~~~ULT3580-HH9	KMS, SResv, SPR	Yes [4]	Yes [4]
System Storage TS2290 Ultrium 9 Half Height - SAS [3]	IBM~~~~~ULT3580-HH9	KMS	Yes [4]	Yes [4]
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2350 Ultrium 5 - SAS	IBM~~~~~ULT3580-TD5	KMS, WORM	Yes	No
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2360 Ultrium 6 - SAS	IBM~~~~~ULT3580-TD6	KMS, WORM	Yes	No
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2380 Ultrium 8 - Fibre Channel	IBM~~~~~ULT3580-TD8	KMS, SResv, SPR, WORM	Yes [2]	Yes [2]
System Storage TS2390 Ultrium 9 - Fibre Channel [3]	IBM~~~~~ULT3580-TD9	KMS, SResv, SPR, WORM	Yes [4]	Yes [4]
Ultrium 4 - Fibre Channel	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	Yes	Yes

IBM - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
Ultrium 5 - Fibre Channel	IBM~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 5 - SAS	IBM~~~~ULTRIUM-TD5	KMS, WORM	Yes [1]	No
Ultrium 5 Half Height - SAS	IBM~~~~ULTRIUM-HH5	KMS, WORM	Yes [1]	No
Ultrium 6 - Fibre Channel	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6 - SAS	IBM~~~~ULTRIUM-TD6	KMS, WORM	Yes [1]	No
Ultrium 6 Half Height - SAS	IBM~~~~ULTRIUM-HH6	KMS, WORM	Yes [1]	No
Ultrium 7 - Fibre Channel	IBM~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 7 - SAS	IBM~~~~ULTRIUM-TD7	KMS, WORM	Yes [1]	No
Ultrium 7 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 7 Half Height - SAS	IBM~~~~ULTRIUM-HH7	KMS, WORM	Yes [1]	No
Ultrium 8 - Fibre Channel	IBM~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	Yes [2]	Yes [2]
Ultrium 8 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	Yes [2]	Yes [2]
Ultrium 8 Half Height - SAS	IBM~~~~ULTRIUM-HH8	KMS, WORM	Yes [1] [2]	Yes [2]
Ultrium 9 - Fibre Channel [3]	IBM~~~~ULTRIUM-TD9	KMS, SResv, SPR, WORM	Yes [4]	Yes [4]
Ultrium 9 - SAS [3]	IBM~~~~ULTRIUM-TD9	KMS	Yes [4]	Yes [4]
Ultrium 9 Half Height - Fibre Channel [3]	IBM~~~~ULTRIUM-HH9	KMS, SResv, SPR	Yes [4]	Yes [4]
Ultrium 9 Half Height - SAS [3]	IBM~~~~ULTRIUM-HH9	KMS	Yes [4]	Yes [4]

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.
2. Requires NetBackup Appliance version 3.1 or later with NetBackup Appliance cloud configuration and device mappings updates RPM version 1.0.2 or later.
3. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**
4. The Device Mappings configuration information for this drive is not yet in a NetBackup Appliance release. To auto-configure this drive with the Device Configuration Wizard, install Device Mappings Files package 1.169 or later on another media server in the configuration and restart the services on the Appliance.

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM^UL3580-TD4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM^UL3580-TD5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM^UL3580-TD6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
System Storage TS1070 (3588 Model F7A) Ultrium 7 - Fibre Channel	IBM^UL3580-TD7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM^03592E05	SResv, SPR, WORM	No	No	No	No	7	12
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM^03592E06	SResv, WORM	No	No	No	No	7	12
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM^03592E07	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM^03592E08	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS1155 (3592 Model 55F) - Fibre Channel	IBM^0359255F	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS1160 (3592 Model 60F) - Fibre Channel	IBM^0359260F	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	No	7, 8, 9	12, 15
System Storage TS1170 (3592 Model 70F) - Fibre Channel	IBM^0359270F	KMS, SResv, SPR	No	No	No	No	9	No
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM^UL3580-HH4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS2240 Ultrium 4 Half Height - SAS	IBM^UL3580-HH4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM^UL3580-HH5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM^UL3580-HH5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM^UL3580-HH6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
System Storage TS2260 Ultrium 6 Half Height - SAS	IBM^UL3580-HH6	KMS, WORM	Datacenter	Datacenter	No	No	7, 8	12
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM^UL3580-HH7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM^ULTR3580-HH7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7, 8	12
System Storage TS2280 Ultrium 8 Half Height - Fibre Channel	IBM^ULTR3580-HH8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	15
System Storage TS2280 Ultrium 8 Half Height - SAS	IBM^ULTR3580-HH8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7, 8	No
System Storage TS2290 Ultrium 9 Half Height - Fibre Channel [1]	IBM^ULTR3580-HH9	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
System Storage TS2290 Ultrium 9 Half Height - SAS [1]	IBM^ULTR3580-HH9	KMS	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM^ULTR3580-TD4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS2340 Ultrium 4 - SAS	IBM^ULTR3580-TD4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM^ULTR3580-TD5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
System Storage TS2350 Ultrium 5 - SAS	IBM^ULTR3580-TD5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM^ULTR3580-TD6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
System Storage TS2360 Ultrium 6 - SAS	IBM^ULTR3580-TD6	KMS, WORM	Datacenter	Datacenter	No	No	7, 8	12
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM^ULTR3580-TD7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
System Storage TS2380 Ultrium 8 - Fibre Channel	IBM^ULTR3580-TD8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
System Storage TS2390 Ultrium 9 - Fibre Channel [1]	IBM^ULTR3580-TD9	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
System Storage TS2390 Ultrium 9 - SAS [1]	IBM^ULTR3580-TD9	KMS	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Ultrium 4 - Fibre Channel	IBM^ULTRIUM-TD4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 4 - SAS	IBM^ULTRIUM-TD4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
Ultrium 4 Half Height - Fibre Channel	IBM^ULTRIUM-HH4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Ultrium 4 Half Height - SAS	IBM~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
Ultrium 5 - Fibre Channel	IBM~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 5 - SAS	IBM~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
Ultrium 5 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7	12, 15
Ultrium 5 Half Height - SAS	IBM~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7	12
Ultrium 6 - Fibre Channel	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 6 - SAS	IBM~~~~ULTRIUM-TD6	KMS, WORM	Datacenter	Datacenter	No	No	7, 8	12
Ultrium 6 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 6 Half Height - SAS	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Datacenter	Datacenter	No	No	7, 8	12
Ultrium 7 - Fibre Channel	IBM~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 7 - SAS	IBM~~~~ULTRIUM-TD7	KMS, WORM	Datacenter	Datacenter	No	No	7, 8	12
Ultrium 7 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 7 Half Height - SAS	IBM~~~~ULTRIUM-HH7	KMS, WORM	Datacenter	Datacenter	No	No	7, 8	12
Ultrium 8 - Fibre Channel	IBM~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	12, 15
Ultrium 8 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	No	7, 8	15
Ultrium 8 Half Height - SAS	IBM~~~~ULTRIUM-HH8	KMS, WORM	Datacenter	Datacenter	No	No	7, 8	No
Ultrium 9 - Fibre Channel [1]	IBM~~~~ULTRIUM-TD9	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Ultrium 9 - SAS [1]	IBM~~~~ULTRIUM-TD9	KMS	No	Datacenter	Datacenter	Datacenter	7, 8, 9	12, 15
Ultrium 9 Half Height - Fibre Channel [1]	IBM~~~~ULTRIUM-HH9	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Ultrium 9 Half Height - SAS [1]	IBM~~~~ULTRIUM-HH9	KMS	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15

1. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**

IBM Tape Driver Support

The latest version of the IBM tape device driver package that has been tested with NetBackup is listed below. Using the version listed here is recommended, but older versions of the tape drivers are also supported and may work well. There is no need to upgrade the tape driver if the configuration is working properly. Upgrading to the version listed here may be necessary if implementing the latest model tape drives or if problems are encountered that have been addressed by the driver provider.

If using the IBM Windows Tape Device Drivers be sure to choose the install_nonexclusive.exe executable. This option permits a tape drive to be accessed by multiple processes on a Media Server, which is a requirement for NetBackup.

NetBackup requires the IBM Data Path Failover feature to be disabled on the IBM tape device driver. To disable this feature, open the reg folder of the IBM driver package, double-click DisableDPF.reg, and reboot the system.

- IBMTape driver level 6.2.6.5 tested on Windows

Note: The "ULTRIUM-TD" and the "ULT3580-TD" inquiry strings are interchangeable (both are supported), unless noted otherwise. The "ULTRIUM-HH" and the "ULT3580-HH" inquiry strings are interchangeable (both are supported), unless noted otherwise.

Oracle

Oracle - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
StorageTek T9840D - Fibre Channel	STK^T9840D	SResv, SPR, WORM	Yes	Yes
StorageTek T10000B - Fibre Channel	STK^T10000B	SResv, SPR, WORM	Yes	Yes
StorageTek T10000C - Fibre Channel [1]	STK^T10000C	KMS, SResv, SPR, WORM	Yes	Yes
StorageTek T10000D - Fibre Channel [1]	STK^T10000D	KMS, SResv, SPR, WORM	Yes	Yes

1. Oracle's Tape Application Accelerator is supported with this device. NetBackup does not interact with this feature.

Oracle - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StorageTek T9840D - Fibre Channel	STK^T9840D	SResv, SPR, WORM	No	No	No	7	12
StorageTek T10000B - Fibre Channel	STK^T10000B	SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	7	12, 15
StorageTek T10000C - Fibre Channel [1]	STK^T10000C	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	7	12, 15
StorageTek T10000D - Fibre Channel [1]	STK^T10000D	KMS, SResv, SPR, WORM	Datacenter	Datacenter	Datacenter	7	12, 15
VDrive - Fibre Channel	"STK^VDRIVE	SResv	Datacenter	No	No	7	No

1. Oracle's Tape Application Accelerator is supported with this device. NetBackup does not interact with this feature.

Quantum

Quantum - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5	KMS, WORM	Yes [1]	No
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5	KMS, WORM	Yes [1]	No
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6	KMS, WORM	Yes [1]	No
Ultrium 8 HH - SAS	QUANTUM^ULTRIUM-HH8	KMS, WORM	Yes [1] [2]	Yes [2]
Ultrium 9 HH - SAS [3]	QUANTUM^ULTRIUM-HH9	KMS	Yes [4]	Yes [4]

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.
2. Requires NetBackup Appliance version 3.1 or later with NetBackup Appliance cloud configuration and device mappings updates RPM version 1.0.2 or later.
3. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**
4. The Device Mappings configuration information for this drive is not yet in a NetBackup Appliance release. To auto-configure this drive with the Device Configuration Wizard, install Device Mappings Files package 1.169 or later on another media server in the configuration and restart the services on the Appliance.

Quantum - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Windows Server 2022 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
LTO-4 HH - SAS	QUANTUM^ULTRIUM^4		Datacenter	Datacenter	No	No	No	No
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5		Datacenter	Datacenter	No	No	7	12
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5		Datacenter	Datacenter	No	No	7	12
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6		Datacenter	Datacenter	No	No	7	12
Ultrium 4 HH - SAS	QUANTUM^ULTRIUM-HH4	KMS, SPR, WORM	Datacenter	Datacenter	No	No	No	No
Ultrium 5 HH - SAS	QUANTUM^ULTRIUM-HH5	KMS, SPR, WORM	Datacenter	Datacenter	No	No	No	No
Ultrium 6 HH - SAS	QUANTUM^ULTRIUM-HH6	KMS, SPR, WORM	Datacenter	Datacenter	No	No	No	No
Ultrium 7 HH - SAS	QUANTUM^ULTRIUM-HH7	KMS, WORM	Datacenter	Datacenter	No	No	No	No
Ultrium 8 HH - SAS	QUANTUM^ULTRIUM-HH8	KMS, WORM	Datacenter	Datacenter	No	No	7	12
Ultrium 9 HH - SAS [1]	QUANTUM^ULTRIUM-HH9	KMS	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15

1. **Supported with initialized LTO-9 media only! New media must be characterized before being put into a NetBackup volume pool for use. For more information, see the note above in Tape Drives - Operational Considerations .**

Tandberg

Tandberg - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, WORM	Yes [1]
HH LTO 6 - SAS	TANDBERGLTO-6^HH	KMS, WORM	Yes [1]

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

Tandberg - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HH LTO 4 - SAS	TANDBERGLTO-4^HH		Datacenter	7	12
HH LTO 5 - SAS	TANDBERGLTO-5^HH		Datacenter	7	12
HH LTO 6 - SAS	TANDBERGLTO-6^HH		Datacenter	7	12

NDMP Devices

NDMP device support information is listed below, organized by vendor. The tables provide information on the versions of software tested, supported connection methods and functionality, and other important notes about the hardware and its compatibility.

For information about Operating Systems supported with NDMP, see the NDMP column in the NetBackup Server section for each OS platform in the ["NetBackup 10.0 - 10.x.x Operating System Software Compatibility List"](https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf) <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .

For NetBackup for NDMP vendor-specific configuration information, refer to ["NetBackup for NDMP: NAS appliance information"](https://www.veritas.com/docs/100016340) <<https://www.veritas.com/docs/100016340>> .

Minor ("double-dot") or patch versions of the software listed in the tables below are also supported. (Example: "v5.0" means versions v5.0.1, v5.0.2, etc. are also supported.)

Direct Access Restore (DAR) and Directory Direct Access Restore (DDAR) are supported, unless noted otherwise.

NetBackup Appliances and NetBackup Virtual Appliances are supported with the NDMP solutions listed in the tables below. For more information on supported appliance versions, see the "Supported Functionality" subsection under ["NetBackup Appliances"](#) .

IPv6 support is shown in the tables below.

64-bit inode numbers are supported.

Wildcard characters can be used in regular expressions or the directive ALL_FILESYSTEMS to specify path names in NDMP policy backup selections. For more information on the use of wildcard characters, see the ["Wildcard characters in backup selections for an NDMP policy"](https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v75620011-131831692) <https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v75620011-131831692> .

Contents

[NDMP Devices - Connection
Methods](#)

[NDMP Devices - Vendor
Compatibility](#)

NDMP Devices - Connection Methods

The following table describes the supported NDMP connection methods.

Connection Method	Description
Direct-attach	Data travels from disk to a tape device on the same NDMP host, or from disk to tape device on a SAN. Backup data is NOT sent over local network. NOTE: The tape drives must be in NDMP-type storage units.
Remote	Data travels from the NDMP host, across the local network to a NetBackup media server, to a storage unit connected to the NetBackup media server.
3-way	Data travels from disk on an NDMP host to a tape device on another NDMP host. Backup data is sent over the local network. NOTE: The tape drives must be in NDMP-type storage units.

NDMP Devices - Vendor Compatibility

Contents

<u>Dell EMC</u>	<u>Dell EMC Data Domain</u>	<u>Dell EMC Isilon</u>
<u>Fujitsu</u>	<u>Hitachi Vantara</u>	<u>Huawei</u>
<u>Imation</u>	<u>Lenovo</u>	<u>NEC</u>
<u>NetApp</u>	<u>Nexenta</u>	<u>Oracle</u>
<u>Stratus Technologies</u>		

Dell EMC

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Compellent FS8600	FluidFS 4.0, FluidFS 5.0, FluidFS 6.0	Remote, 3-way	Yes	No	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.
DR Series	Dell OS 3.2	3-way Target	No	No	No	
PowerMax series	eNAS for File 8.1	Direct-attach, Remote, 3-way	No	Yes	Yes	<p>"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation.</p> <p>All models in the Dell EMC PowerMax Series are supported (VMAX AFA, PowerMax 2000, PowerMax 8000).</p> <p>For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.</p> <p>TYPE=tar backups are not recommended with this device. For more information, see Veritas Knowledge base article 100031122 <http://www.veritas.com/docs/100031122></p>
PowerStore series	PowerStore OS 1.0, PowerStore OS 2.0, PowerStore OS 2.1, PowerStore OS 3.0, PowerStore OS 3.2, PowerStore OS 3.5	Remote, 3-way	No	No	No	
Unity series	Unity Operating Environment 4.1, Unity Operating Environment 4.2, Unity Operating Environment 4.4, Unity Operating Environment 4.5, Unity Operating Environment 5.0, Unity Operating Environment 5.1, Unity Operating Environment 5.2, Unity Operating Environment 5.3	Direct-attach, Remote, 3-way	Yes	Yes	Yes	<p>Direct-attach support requires Unity Operating Environment version 4.4.1.1538211294 or later.</p> <p>For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.</p> <p>SCSI reservations must be enabled manually. For details, see NetBackup for NDMP: NAS appliance information <https://www.veritas.com/docs/100016340> .</p> <p>Shared Storage Option (SSO) support requires Unity Operating Environment version 4.4.1.1538211294 or later.</p>

Dell EMC

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
VNX2 series	VNX File 8.1	Direct-attach, Remote, 3-way	No	Yes	Yes	<p>"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation.</p> <p>All models in the Dell EMC VNX2 Series are supported (VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000).</p> <p>For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.</p> <p>TYPE=tar backups are not recommended with this device. For more information, see Veritas Knowledge base article 100031122 <http://www.veritas.com/docs/100031122></p> <p>VNX File 8.1 software requires hotfix 8.1.2.510.</p>
VNX2e series	VNXe Operating Environment v3.1	Remote, 3-way	No	Yes	Yes	<p>All models in the Dell EMC VNX2e Series are supported (VNXe1600, VNXe3200).</p> <p>For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.</p> <p>TYPE=tar backups are not recommended with this device. For more information, see Veritas Knowledge base article 100031122 <http://www.veritas.com/docs/100031122></p>
VNXe series	VNXe Operating Environment v2.0	Remote, 3-way	No	Yes	Yes	<p>All models in the Dell EMC VNXe Series are supported (VNXe3100, VNXe3150, VNXe3300).</p> <p>For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.</p> <p>TYPE=tar backups are not recommended with this device. For more information, see Veritas Knowledge base article 100031122 <http://www.veritas.com/docs/100031122></p>
VNX series	VNX File 7.1	Direct-attach, Remote, 3-way	No	Yes	Yes	<p>"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation.</p> <p>All models in the Dell EMC VNX Series are supported (VNX5100, VNX5300, VNX5500, VNX5700, VNX7500).</p> <p>For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.</p> <p>TYPE=tar backups are not recommended with this device. For more information, see Veritas Knowledge base article 100031122 <http://www.veritas.com/docs/100031122></p>

Dell EMC Data Domain

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Appliance series	DDOS 5.1, DDOS 5.4	3-way Target	No	No	Yes	All models in the Appliance Series are supported. Configure as NDMP Tape Server.

Dell EMC Isilon

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
PowerScale series	OneFS 9.1, OneFS 9.2, OneFS 9.3, OneFS 9.4, OneFS 9.5, OneFS 9.7	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation. For information on OneFS version compatibility with PowerScale models, see the vendor's website. Supported with Accelerator with NDMP with NetBackup 8.1 or later. The Dell EMC Isilon A100 Backup Accelerator is supported with this device.
Scale-Out NAS	OneFS 7.1, OneFS 8.0, OneFS 8.1, OneFS 8.2, OneFS 9.0	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation. For information on OneFS version compatibility with IQ Storage, HD-Series, N-Series, S-Series, and X-Series models, see the "Isilon Supportability and Compatibility Guide" on the vendor's website. IPv6 is supported with OneFS version 8.0 and later. Supported with Accelerator with NDMP with NetBackup 8.1 or later. The Dell EMC Isilon A100 Backup Accelerator is supported with this device. The Scale-Out NAS line is now known as PowerScale OneFS. The Scale-Out NAS line was previously known as IQ Storage.

Fujitsu

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
ETERNUS AX series	ONTAP v9.7, ONTAP v9.8, ONTAP v9.9, ONTAP v9.10, ONTAP v9.11, ONTAP v9.12, ONTAP v9.13, ONTAP v9.14	Direct-attach, Remote, 3-way	Yes	Yes	Yes	<p>"Incremental forever" backups are supported via a combination of the BASE_DATE and REPLICATE environment variables. For more information, see the vendor's documentation.</p> <p>All models in the ETERNUS AX series (AX1100, AX1200, AX2100, AX2200, AX4100) are supported.</p> <p>FlexGroup volumes are supported with ONTAP v9.7P12 and later.</p> <p>Supported with Accelerator with NDMP. Accelerator is not supported on FlexGroup volumes.</p>
ETERNUS HX series	ONTAP v9.7, ONTAP v9.8, ONTAP v9.9, ONTAP v9.10, ONTAP v9.11, ONTAP v9.12, ONTAP v9.13, ONTAP v9.14	Direct-attach, Remote, 3-way	Yes	Yes	Yes	<p>"Incremental forever" backups are supported via a combination of the BASE_DATE and REPLICATE environment variables. For more information, see the vendor's documentation.</p> <p>All models in the ETERNUS HX series (HX2100, HX2200, HX2300, HX6100) are supported.</p> <p>FlexGroup volumes are supported with ONTAP v9.7P12 and later.</p> <p>Supported with Accelerator with NDMP. Accelerator is not supported on FlexGroup volumes.</p>

Hitachi Vantara

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Data Ingestor (HDI)	FOS 3.2, FOS 4.0, FOS 5.0, FOS 6.0, FOS 6.1, FOS 6.4	Direct-attach, Remote, 3-way	Yes	No	Yes	FOS 6.1 and earlier versions do not support the NetBackup Shared Storage Option.
NAS Platform (HNAS)	Hitachi NAS OS 11, Hitachi NAS OS 12, Hitachi NAS OS 13, Hitachi NAS OS 14	Direct-attach, Remote, 3-way	Yes	No	Yes	<p>"Incremental forever" backups are supported with this device via the "LEVEL=i" environment variable. For more information on environment variables, see the device vendor's documentation.</p> <p>All models in the HNAS 3000 series (3080 G1, 3080 G2, 3090 G1, 3090 G2), HNAS 4000 series (4040, 4060, 4080, 4100), and HNAS 5000 series (5200, 5300) are supported.</p> <p>SCSI reservation is not enabled by default. Please refer to Hitachi Vantara's documentation for details on enabling this setting in a Shared Storage Option (SSO) configuration.</p> <p>Single-dot versions of the software listed are also supported. (Example: "HDS HNAS OS 11" means HDS HNAS versions 11.0, 11.1, 11.2, etc. are also supported.)</p> <p>The HNAS 5000 series is not supported with NDMP over Fibre Channel at this time.</p>

Hitachi Vantara

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Virtual File Platform (VFP)	FOS 3.2, FOS 4.0, FOS 5.0, FOS 6.0, FOS 6.1, FOS 6.4	Direct-attach, Remote, 3-way	Yes	No	Yes	FOS 6.1 and earlier versions do not support the NetBackup Shared Storage Option.

Huawei

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
N8000 series	FileStore 5.5	Remote, 3-way	No	No	No	

Imation

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Nexsan NST2000	NestOS 3.2, Unity 2.0	Remote, 3-way	No	No	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST4000	NestOS 3.2, Unity 2.0	Remote, 3-way	No	No	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST5000	NestOS 2.1, NestOS 3.2, Unity 2.0	Remote, 3-way	No	No	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST6000	NestOS 3.2, Unity 2.0	Remote, 3-way	No	No	No	Unity 2.0 software requires version 2.0.4 or later.

Lenovo

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
DM3000H	ONTAP v9.9	Remote, 3-way	No	No	No	

NEC

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
NH4a	FOS 4.0, FOS 5.0	Direct-attach, Remote, 3-way	No	No	No	
NH4b	FOS 5.0, FOS 6.0, FOS 6.1	Direct-attach, Remote, 3-way	No	No	No	
NH4c	FOS 4.0, FOS 5.0	Direct-attach, Remote, 3-way	No	No	No	
NH8a	FOS 4.0, FOS 5.0	Direct-attach, Remote, 3-way	No	No	No	
NH8b	FOS 5.0, FOS 6.0, FOS 6.1	Direct-attach, Remote, 3-way	No	No	No	
NH8c	FOS 5.0, FOS 6.0, FOS 6.1	Direct-attach, Remote, 3-way	No	No	No	

NetApp

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
AFF, FAS and V series	Data ONTAP v8.2 (7-Mode), Data ONTAP v8.2 (Cluster-Mode), Data ONTAP v8.3 (Clustered), ONTAP v9.0, ONTAP v9.1, ONTAP v9.2, ONTAP v9.3, ONTAP v9.4, ONTAP v9.5, ONTAP v9.6, ONTAP v9.7, ONTAP v9.8, ONTAP v9.9, ONTAP v9.10, ONTAP v9.11, ONTAP v9.12, ONTAP v9.13, ONTAP v9.14	Direct-attach, Remote, 3-way	Yes	Yes	Yes	<p>"Incremental forever" backups are supported via a combination of the BASE_DATE and REPLICATE environment variables. For more information, see the vendor's documentation.</p> <p>Cluster Aware Backup (CAB) is supported in Clustered Data ONTAP (cDOT) environments.</p> <p>Data ONTAP v8.2 (7-mode) supports MultiStore (vFiler) with Remote and 3-way.</p> <p>Data ONTAP v8.2 (7-mode) supports NetBackup Advanced Client NAS Snapshot.</p> <p>Data ONTAP v8.3 and later do not support 7-mode.</p> <p>FlexGroup volumes are supported with ONTAP v9.7P12 and later.</p> <p>For versions of ONTAP supported with AFF series, see the vendor's compatibility list.</p> <p>IPv6 is supported with Data ONTAP v8.3 and later.</p> <p>NetApp Cloud Volumes ONTAP in Microsoft Azure is also supported. Requires opening port 10000 (NDMP) in Network Security Group rules, whether the environment is all-cloud or a remote media server.</p> <p>Supported with Accelerator with NDMP. Accelerator is not supported on FlexGroup volumes.</p> <p>Supports wildcard characters for backup selections lower than the volume level with all listed ONTAP versions except v8.0 through v8.2 (Cluster-mode).</p>

Nexenta

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
NexentaStor	NexentaStor 4.0.3, NexentaStor 5.1	Direct-attach, Remote, 3-way	No	No	Yes	NexentaStor 4.0.3 software requires fix pack 3 or later.

Oracle

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
ZFS Storage Appliance series	Oracle OS 2011.04.24, Oracle OS 2013.06.05	Direct-attach, Remote, 3-way	No	No	Yes	All models in the ZFS Storage 7000 (7x10 and 7x20) and ZS (ZS3-x, ZS4-x, and ZS5-x) Unified Storage System families are supported.

Stratus Technologies

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
V Series	OpenVOS 17.1	Remote	No	No	No	

Descriptions of Disk Storage Unit Types

NetBackup permits the creation of an unlimited number of disk storage units. The types of storage units are described in the table below.

Disk Storage Unit Types

BasicDisk

A BasicDisk type storage unit consists of a directory on a locally-attached disk or a network-attached disk that is exposed as a file system to a NetBackup media server. NetBackup stores backup data in the specified directory.

BasicDisk - Considerations

Subject	Notes
Configuration considerations	1. Do not include the same volume or file system in multiple BasicDisk storage units. 2. BasicDisk storage units cannot be used in a storage lifecycle policy.

AdvancedDisk

An AdvancedDisk type storage unit is used for a dedicated disk that is directly attached to a NetBackup media server. AdvancedDisk is available only when the Data Protection Optimization Option is licensed. NetBackup assumes exclusive ownership of the disk resources that comprise an AdvancedDisk disk pool. If the resources are shared with other users, NetBackup cannot manage disk pool capacity or storage lifecycle policies correctly. For AdvancedDisk, the NetBackup media servers function as both data movers and storage servers. For more information on configuring AdvancedDisk, see the ["NetBackup AdvancedDisk Storage Solutions Guide"](https://www.veritas.com/content/support/en_US/doc/62428570-127355758-0/index) [<https://www.veritas.com/content/support/en_US/doc/62428570-127355758-0/index>](https://www.veritas.com/content/support/en_US/doc/62428570-127355758-0/index) .

AdvancedDisk - Considerations

Subject	Notes
Support assumptions	<p>1. Veritas NetBackup has an open support policy for AdvancedDisk storage units. The storage must be seen as local disk by the NetBackup Media Server, regardless of connection method (SCSI, Fibre Channel, iSCSI, etc), to be supported as an AdvancedDisk storage unit.</p> <p>Please note: Due to the open support policy, and the range of 3rd party storage solutions, it is the responsibility of the customer to ensure that the chosen storage solution meets the specific performance needs in the specific production environment. Veritas NetBackup features that are performance-dependent, such as Granular Restore Technology (GRT) are not supported with AdvancedDisk storage units.</p> <p>Hybrid storage solutions, with a mix of both local (LAN or FC) and WAN (remote or cloud) based storage tiers, have become available. Thorough testing of these storage solutions, when used as AdvancedDisk storage units, needs to be completed by the customer, to the customer's satisfaction, particularly in the area of restore operations, to ensure that timeouts do not occur. Some specific hybrid storage solutions have been tested as NetBackup AdvancedDisk storage units, in Veritas labs, with joint effort and in cooperation with Veritas storage partners. Resulting white papers and reference materials will appear here:</p> <ul style="list-style-type: none"> - Microsoft Azure StorSimple: "Configure StorSimple with Veritas NetBackup" <https://docs.microsoft.com/en-us/azure/storsimple/storsimple-configure-backuptarget-netbackup> <p>All-flash storage solutions are included in the AdvancedDisk open support policy. Some specific all-flash storage solutions have been tested as NetBackup AdvancedDisk storage units, in Veritas labs, with joint effort and in cooperation with Veritas storage partners. Examples are:</p> <ul style="list-style-type: none"> - Pure Storage FlashBlade - Violin Systems Flash Storage Platform <p>2. Veritas InfoScale Foundation and Storage Foundation are supported with NetBackup AdvancedDisk. For information on disk arrays that are supported with the InfoScale Foundation or Storage Foundation version you're running, please see "Veritas Services and Operations Readiness Tools (SORT)" <https://sort.veritas.com> .</p> <p>3. AdvancedDisk functionality is subject to all functional limitations as imposed either by the operating system or by the underlying file system.</p>
Configuration considerations	<p>1. For UNIX NetBackup Media Servers, AdvancedDisk requires that all LSUs (Logical Storage Units) are active mount points within the UNIX host. Using the NFS automount feature is not recommended with AdvancedDisk.</p> <p>2. Access to NFS storage requires NetBackup daemons to run as root. The NFS server exporting the file system must be configured to allow root access to the file system.</p> <p>3. To ensure support, the disk array must be combined with interconnect hardware that is supported by the disk array manufacturer and the operating system vendor. Refer to the respective vendor's support lists for this information.</p> <p>4. When installing and configuring HBA drivers it is recommended that the array vendor-qualified HBA drivers be used as opposed to the general HBA drivers that are released for each operating system. These array vendor-qualified HBA drivers are typically found in a separate section of the HBA vendor or array vendor's website, often separated by array model.</p> <p>5. Performance may vary depending on the array hardware used.</p>

OpenStorage

An OpenStorage type storage unit is used for disk storage, usually provided by a third party vendor. The actual name of the disk type depends on the vendor. OpenStorage is available only when the OpenStorage Disk Option is licensed. The storage is integrated into NetBackup through an API. The storage vendor partners with Veritas to integrate the storage into NetBackup. The storage host is the storage server. The NetBackup media servers function as the data movers. The storage vendor's plug-in must be installed on each media server that functions as a data mover. The logon credentials to the storage server must be configured on each media server. For more information on configuring OpenStorage, see the "[NetBackup OpenStorage Solutions Guide for Disk](https://www.veritas.com/content/support/en_US/doc/59118460-127355792-0/index)" <https://www.veritas.com/content/support/en_US/doc/59118460-127355792-0/index> .

PureDisk

A PureDisk disk type storage unit is used for deduplicated data for Media Server Deduplication Pools (MSDP) storage pools.

Media Server Deduplication Pool (MSDP)

When a Media Server Deduplication Pool is configured, NetBackup deduplicates the data and hosts the storage. MSDP is available only when the NetBackup Data Protection Optimization Option is licensed.

The following all-flash storage solutions have been tested as NetBackup MSDP storage in Veritas labs, with joint effort and in cooperation with Veritas storage partners, and are supported with the following limitations:

Storage Solution	Notes
Pure Storage FlashBlade	<ul style="list-style-type: none">- Requires Purity//FB 3.0.2 or later running NFS version 3.- Requires Flex 5340 Appliance version 1.3 or later.- Requires Flex NetBackup Images version 8.2 or later.- Requires Flex Add-Ons for NetBackup 8.2: "NetBackup 8.2 Hotfix - MSDP EEB Bundle (Etrack 3981133)" <https://www.veritas.com/content/support/en_US/downloads/update.UPD171508> and Flex add-on netfs.- Maximum aggregate size of MSDP pool supported with this device is 250 TB.- NetBackup Client-side deduplication is supported.- NetBackup Accelerator (for files and folders) is supported.- NetBackup Auto Image Replication (A.I.R.) is supported.- Not supported with Veritas Instant Access, Instant Recovery, and Universal Shares.

Veritas reserves the right to approve customer scenarios on a case-by-case basis prior to confirming support.

For more information on configuring MSDP, see the "[NetBackup Deduplication Guide](https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/index)" <https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/index> .

Encryption and Security Solutions

Encryption and security solution support information is listed below, organized by solution type.

The following listings do not include specific operating system compatibility. For a list of supported NetBackup Media Server platforms, refer to the "[NetBackup 10.0 - 10.x.x Operating System Software Compatibility List](https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf)" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .

Contents

<u>NetBackup Key Management Service (KMS)</u>	<u>External Key Management Services using KMIP</u>	<u>Single Sign-On using SAML</u>
<u>NetBackup Client Encryption</u>	<u>Third-Party Encryption Solutions</u>	<u>Symantec Security Information Manager</u>
<u>External Credential Management System</u>		

NetBackup Key Management Service (KMS)

The NetBackup Key Management Service (KMS) feature is intended to support any tape drive with built-in hardware encryption capability that conforms to the SCSI T10 encryption standard. Each drive model listed in the following table has been tested in Veritas labs to verify that it works with NetBackup correctly, so Veritas recommends using only listed drives with the KMS feature. Refer to the [Tape Drives](#) section in this document for the list of platforms and interfaces on which each of the following drives is supported.

Note: KMS is supported on any tape library supported by NetBackup, provided the library vendor supports that library with any of the encryption-capable drives listed in the table below.

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
Dell EMC	PowerVault LTO4-120	
Dell EMC	PowerVault LTO5-140	
Dell EMC	PowerVault LTO-6	
Dell EMC	PowerVault LTO-6 HH	
Dell EMC	PowerVault LTO-7	
Dell EMC	PowerVault LTO-7 HH	
Hewlett Packard Enterprise	Ultrium 1760 LTO4	
Hewlett Packard Enterprise	Ultrium 1840 LTO4	
Hewlett Packard Enterprise	Ultrium 3000 LTO5	
Hewlett Packard Enterprise	Ultrium 3280 LTO5	
Hewlett Packard Enterprise	Ultrium 6250 LTO6	
Hewlett Packard Enterprise	Ultrium 6650 LTO6	
Hewlett Packard Enterprise	Ultrium 15000 LTO7	

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
Hewlett Packard Enterprise	Ultrium 15750 LTO7	
Hewlett Packard Enterprise	Ultrium 30750 LTO8	
IBM	System Storage TS1040 Ultrium 4	Requires firmware version 7BG2 or later.
IBM	System Storage TS1050 Ultrium 5	
IBM	System Storage TS1060 Ultrium 6	
IBM	System Storage TS1070 Ultrium 7	
IBM	System Storage TS1120 (3592 Model E05)	Requires firmware version 1C15 or later.
IBM	System Storage TS1130 (3592 Model E06)	Requires firmware version 2480 or later.
IBM	System Storage TS1140 (3592 Model E07)	
IBM	System Storage TS1150 (3592 Model E08)	
IBM	System Storage TS1155 (3592 Model 55F)	
IBM	System Storage TS2240 Ultrium 4 Half Height	
IBM	System Storage TS2250 Ultrium 5 Half Height	
IBM	System Storage TS2260 Ultrium 6 Half Height	
IBM	System Storage TS2270 Ultrium 7 Half Height	
IBM	System Storage TS2280 Ultrium 8 Half Height	
IBM	System Storage TS2340 Ultrium 4	Requires firmware version 7BG2 or later.
IBM	System Storage TS2350 Ultrium 5	
IBM	System Storage TS2360 Ultrium 6	
IBM	System Storage TS2370 Ultrium 7	
IBM	System Storage TS2380 Ultrium 8	
IBM	Ultrium 4 (OEM)	Requires firmware version 7BG2 or later.
IBM	Ultrium 4 Half Height (OEM)	
IBM	Ultrium 5 (OEM)	
IBM	Ultrium 5 Half Height (OEM)	
IBM	Ultrium 6 (OEM)	
IBM	Ultrium 6 Half Height (OEM)	
IBM	Ultrium 7 (OEM)	
IBM	Ultrium 7 Half Height (OEM)	
IBM	Ultrium 8 (OEM)	
IBM	Ultrium 8 Half Height (OEM)	
Oracle StorageTek	T10000B	Requires firmware version 1.41.211 or later.

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
Oracle StorageTek	T10000C	Requires firmware version 1.53.311 or later. The drive needs manual setup including obtaining the data path key management (DPKM) encryption license from Oracle.
Oracle StorageTek	T10000D	
Quantum	LTO-4 HH	Requires firmware version 2190 or later.
Quantum	LTO-5 FH	
Quantum	LTO-5 HH	
Quantum	LTO-6 HH	
Quantum	LTO-7 HH	
Quantum	LTO-8 HH	
Tandberg	HH LTO 5	

External Key Management Services using KMIP

External Key Management Services (EKMS) servers using KMIP are supported with NetBackup 8.3 and later.

If an external KMS system requests a key deactivation date to be specified, ensure this key deactivation date is set beyond the expiration time of the longest backup image.

A deactivated key may be utilized for decryption purposes, however some KMS vendors may completely disable a deactivated key. NetBackup read/restore operations would fail in such circumstances; consult your KMS vendor to help transition the key to a deactivated state prior to facilitating data recovery.

External KMS - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"> 1. EKMS is supported with AdvancedDisk, Cloud, MSDP, MSDP Direct Cloud Tiering, and Tape storage solutions supported by NetBackup. 2. The EKMS server must be KMIP-based. 3. NetBackup uses Symmetric Key objects stored on the EKMS server for data encryption. 4. The EKMS server must use PEM formatted certificate-based authentication. 5. The NetBackup primary server should be able to establish an outbound connection to the KMIP port on the EKMS server.

External KMS - Supported Devices

Manufacturer	Model	EKMS server software version	KMIP version supported
Fortanix	Data Security Manager (DSM)	4.2	1.0, 1.1, 1.2, 1.3, 1.4
HashiCorp	Vault Enterprise KMIP Secrets Engine	1.13.9, 1.14.5, 1.15.1	1.4
IBM	Security Key Lifecycle Manager (SKLM)	2.6	1.0, 1.1, 1.2
IBM	Security Key Lifecycle Manager (SKLM)	3.0	1.0, 1.1, 1.2, 1.3, 1.4, 2.0
IBM	Security Guardium Key Lifecycle Manager (GKLM)	4.1	1.0, 1.1, 1.2, 1.3, 1.4, 2.0, 2.1
Oracle	Key Vault	12.1, 18.1, 18.2	1.0, 1.1
Thales	CipherTrust Manager K170, K170v, K470, K570	1.8	1.0, 1.1, 1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.5	1.0, 1.1, 1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.7	1.0, 1.1, 1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.8	1.0, 1.1, 1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.9	1.0, 1.1, 1.2, 1.3, 1.4
Thales	Gemalto-SafeNet KeySecure K150, K150v	8.11	1.0, 1.1, 1.2, 1.3
Thales	Vormetric Data Security Manager (DSM)	6.4	1.0, 1.1, 1.2, 1.3, 1.4, 2.0
Utimaco	Enterprise Secure Key Manager	5.2	1.0, 1.1, 1.2, 1.3, 1.4, 2.0

KMS - Supported Devices for NetBackup Sheltered Harbor solution

External KMS:

NetBackup Sheltered Harbor solution requires cryptographic operations like encrypt, decrypt, sign and verify to be supported on EKMS server to perform secure vaulting. Below are the EKMS servers NetBackup sheltered Harbor solution supports.

Manufacturer	Model	EKMS server software version	KMIP version supported
Thales	CipherTrust Manager K170, K170v, K470, K570	2.5	1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.7	1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.8	1.2, 1.3, 1.4
Thales	CipherTrust Manager K170, K170v, K470, K570	2.9	1.2, 1.3, 1.4
Utimaco	Enterprise Secure Key Manager	5.2	1.2, 1.3, 1.4, 2.0

Cloud based KMS:

NetBackup sheltered Harbor solution supports Microsoft Azure Key Vault as a cloud based key management server.

Single Sign-On using SAML

NetBackup supports authentication via Single Sign-On with SAML. For more information, see [Configure NetBackup for Single Sign-On \(SSO\)](https://www.veritas.com/content/support/en_US/doc/146133534-146134575-0/v140915791-146134575) <https://www.veritas.com/content/support/en_US/doc/146133534-146134575-0/v140915791-146134575> in the NetBackup Web UI Administrator's Guide.

Single Sign-On using SAML - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none">1. To use SSO, you must have a SAML 2.0 compliant identity provider configured in your environment.2. Only one Active Directory (AD) or LDAP domain is supported for each primary server domain. This feature is not available for local domain users.3. Configuration of the Identity Provider (IDP) requires the NetBackup APIs or the NetBackup command nbidpcmd.4. API keys are used to authenticate a user or a group and cannot be used with SAML-authenticated users or groups.5. Global logout is not supported.

Single Sign-On with SAML - Supported Solutions

Identity Provider	Link to configuration information
ADFS	How to enroll NetBackup master server as a service provider to ADFS <https://www.veritas.com/support/en_US/article.100047744>
IBM	How to enroll NetBackup master server as a service provider to IBM Security Access Manager <https://www.veritas.com/support/en_US/article.100049816>
Microsoft Azure	How to enroll NetBackup master server as a service provider in Azure active directory Identity provider <https://www.veritas.com/support/en_US/article.100047748>
Okta	How to enroll NetBackup master server as a service provider to Okta <https://www.veritas.com/support/en_US/article.100047745>
PingFederate	How to enroll NetBackup master server as a service provider to PingFederate <https://www.veritas.com/support/en_US/article.100047746>
Shibboleth	How to enroll NetBackup as a service provider in Shibboleth Identity provider <https://www.veritas.com/support/en_US/article.100047747>

NetBackup Client Encryption

NetBackup Client Encryption is compatible with all disk storage units (DSU), tape drives, tape libraries, and virtual tape libraries supported by NetBackup.

Note: Any DSU type supported by NetBackup can be used with client encryption, although encryption prevents deduplication by Media Server Dedupe, OpenStorage devices, or VTLs.

NetBackup Client Encryption is supported on all NetBackup client platforms except OpenVMS, and is not supported with BMR or SAN client.

Third-Party Encryption Solutions

Support information for vendor-supplied encryption solutions is listed below, organized by vendor. Under each vendor there is a table showing tested solutions, firmware versions tested with that solution, and other important notes about the solution and its compatibility.

The firmware listed in these tables is the firmware that has been tested. Firmware versions newer than those listed are also supported.

Support for specific storage devices such as tape drives, libraries, and virtual devices is not listed in this section. NetBackup will support any hardware that is supported both by the encryption provider and Veritas. Please refer to the other sections of this document for Veritas' support of these storage devices.

Please Note:

The firmware listed on this page is the firmware that has been tested. All firmware versions newer than what is listed are also supported.

Third-Party Encryption Solutions - Vendor Compatibility

Contents

<u>Brocade</u>	<u>Cisco Systems</u>	<u>Decru</u>
<u>Fujitsu</u>	<u>Hewlett Packard Enterprise</u>	<u>IBM</u>
<u>NEC</u>	<u>Quantum</u>	<u>SafeNet</u>
<u>Sun StorageTek</u>	<u>Thales (NeoScale)</u>	

Brocade

Model	Version	Notes
Brocade Encryption Switch	7.1.0a	Support for Fibre Channel switch-based encryption. Qualified with SafeNet KeySecure encryption key management. NetBackup does not interact with the key management or the encryption process.

Cisco Systems

Model	Version	Notes
MDS9222i	SME 3.2.3	Support for Storage Media Encryption (SME) fabric service. NetBackup does not interact with the key management or the encryption process.

Decru

Model	Version	Notes
DataFort FC1020	2.0-MP	The firmware listed for this device is the version that was tested. All 2.x firmware versions are also supported.
DataFort FC520 V2	2.0-MP, 2.1.0.2	The firmware listed for this device is the version that was tested. All 2.x firmware versions are also supported.
DataFort FC525 V2	2.0-MP	The firmware listed for this device is the version that was tested. All 2.x firmware versions are also supported.

Fujitsu

Model	Version	Notes
LT220-embedded encryption key management function	0006	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT230-embedded encryption key management function	0005	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT250-embedded encryption key management function	V20L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT260-embedded encryption key management function	6.62	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT270-embedded encryption key management function	V40L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT270 S2-embedded encryption key management function	V10L10	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.

Hewlett Packard Enterprise

Model	Version	Notes
1/8 G2 & MSL G3 Encryption Kit	2.30, 2.80 (1/8 G2), 4.20, 4.70 (MSL2024), 6.50, 7.00 (MSL4048), 8.90, 9.60 (MSL8048/MSL8096)	Support for library-based encryption solution. NetBackup does not interact with the key management or the encryption process.
Enterprise Secure Key Manager	4.8.9	Support for Enterprise Secure Key Manager (ESKM) appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Secure Key Manager 1.0	4.7.1	Support for Secure Key Manager appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Secure Key Manager 1.1	4.8.1	Support for Secure Key Manager appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

IBM

Model	Version	Notes
Encryption Key Manager	20060816, 20070503	Support for library-based Internal Label Encryption Policy (ILEP) for NetBackup. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Tivoli Key Lifecycle Manager (TKLM)	2.0	Support for library-based encryption solution. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

NEC

Model	Version	Notes
T16A2-embedded encryption key management function	0006	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T30A-embedded encryption key management function	0002	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T40A2-embedded encryption key management function	0005	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T60A-embedded encryption key management function	0002	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T100A-embedded encryption key management function	V20L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T100A2-embedded encryption key management function	V20L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T700A-embedded encryption key management function	V40L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T700A2-embedded encryption key management function	V10L10	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.

Quantum

Model	Version	Notes
Encryption Key Manager	2.1_007	Support for library-based encryption solution. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Scalar Key Manager Appliance	100Q.GC00800	Support for library-based encryption solution. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

SafeNet

Model	Version	Notes
KeySecure	6.3.0	Support for encryption key management. Qualified with Brocade Encryption Switch. NetBackup does not interact with the key management or the encryption process.

Sun StorageTek

Model	Version	Notes
Crypto Key Management System	1.6.0, 2.0, 2.2	Support for Crypto Key Management appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

Thales (NeoScale)

Model	Version	Notes
CryptoStor FC702	fc-2.4.0	
CryptoStor FC704	fc-2.4.0	
CryptoStor FC712	fc-2.4.0	
CryptoStor SC702	fc-2.4.0	

Symantec Security Information Manager

NetBackup Client is supported with Symantec Security Information Manager (SSIM) v4.8 and later.

For more information on SSIM, see [Symantec Security Information Manager \(SSIM\) <https://support.symantec.com/en_US/dpl.52517.html>](https://support.symantec.com/en_US/dpl.52517.html)

External Credential Management System

External Credential Management System (ECMS) are supported with NetBackup 10.2 and later.

External CMS - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none">1. CyberArk deployment supported with Central Credential Provider (CCP).2. While configuring the external CMS server for example, CyberArk server, user can use the DNS hostname or IPV4 address. However, it is recommended to use the DNS hostname for connecting to the host. CyberArk configuration fails if IPV6 address is used.3. The ECMS server must use PEM formatted certificate-based authentication.4. The NetBackup primary server should be able to establish an outbound connection to the ECMS server port on the ECMS server.5. Supports Microsoft SQL server workload.6. NetBackup 10.3 onwards supports MySQL server and PostgreSQL server workloads.

External CMS - Supported Devices

Manufacturer	ECMS server software version	Minimum NetBackup version supported
CyberArk	8.0, 10.2, 12.6	10.2

Fibre Transport Media Server HBAs

This section lists Fibre Channel host bus adapters (HBAs) that have been tested and are supported with the NetBackup Fibre Transport (FT) feature in a Fibre Transport Media Server. This information is organized by vendor and provides information on what operating systems have been tested with each Fibre Channel HBA model. The NetBackup Fibre Transport feature requires loading the FT HBA with firmware contained on the NetBackup distribution media, so only the HBAs listed below will work with this feature.

Contents

[Fibre Transport Media Server - Considerations](#)

[Fibre Transport Media Server - Supported Platforms](#)

[Fibre Transport Media Server - Vendor Compatibility](#)

Fibre Transport Media Server - Considerations

Subject	Notes
Support assumptions	<ol style="list-style-type: none"> 1. A NetBackup SAN Client supports all HBAs (host bus adapters), unless noted otherwise, and is used in conjunction with a NetBackup Fibre Transport Media Server. The HBA support model for NetBackup SAN Client is an "OPEN" model. All host bus adapters (HBA), switches, bridges, and routers are supported in a SAN environment, unless noted otherwise. This means that if a Fibre Channel component is causing a problem, Veritas will work with the component vendor in an attempt to resolve the problem, but resolution is not guaranteed. Veritas and most hardware vendors listed are members of TSANet. 2. SAN Client is not supported over Fibre Channel over Ethernet (FCoE) using converged network adapters (CNA).
Vendor support considerations	<ol style="list-style-type: none"> 1. The SAN Client feature is compatible with the Sun SPARC Enterprise M-Series server architecture, but with limited functionality with regard to Fibre Transport Media Server deployment: <ul style="list-style-type: none"> - Support is limited to a maximum of one target mode Fibre Channel HBA in an M-Series server. - Quad-port target mode Fibre Channel HBAs are not supported in an M-Series server. 2. Hitachi Vantara-branded HBAs are not supported with NetBackup SAN Client. 3. When configuring an FT Media Server with an Broadcom/Emulex 16 Gb HBA, disconnect or remove any other 4 Gb HBAs in the server, even if the 4 Gb HBAs are not being used for NetBackup. For more information, see The presence of 4Gb Host Bus Adapter (HBA)s on a Fibre Transport Media Server (FTMS) may cause a system crash <https://www.veritas.com/docs/100050296>

Fibre Transport Media Server - Supported Platforms

Linux FT Media Servers are supported on the platforms listed in the following table along with the NetBackup version (10.0 or later) at which the platform was first supported. Other RHEL and SLES versions are not supported as an FT Media Server.

Operating System	Supported Versions	Minimum NetBackup (10.0 or later) release supported	Notes
NetBackup 5200 and 5300 Series Appliance	5.0, 4.1, 4.0, 3.3.0.1, 3.2	10.0	Supported with 8 Gb HBAs in NetBackup 5230 and 5240 Appliances. Supported with 16 Gb HBAs in NetBackup 5240, 5250, and 53xx Appliances.
NetBackup 5200 and 5300 Series Appliance	Flex 2.1 and later	10.0	Supported with 16 Gb HBAs in NetBackup 5250, 5340 and 5350 Appliances.

Operating System	Supported Versions	Minimum NetBackup (10.0 or later) release supported	Notes
Red Hat Enterprise Linux 7 on x86-64	GA through Update 9	10.0	<p>Marvell QLogic 4 Gb HBAs (QLE2400 series) are not supported with Red Hat Enterprise Linux 7 Update 7 and later.</p> <p>Marvell QLogic QLE2692 16 Gb HBAs are supported with Red Hat Enterprise Linux 7 Update 7.</p> <p>Broadcom/Emulex LPe31002 and Marvell QLogic QLE2692 HBAs are supported with Red Hat Enterprise Linux 7 Update 9.</p> <p>Broadcom/Emulex LPe35000 series HBAs are supported with Red Hat Enterprise Linux 7 Update 9. Requires NetBackup 10.0 and an Emergency Engineering Binary (EEB). Contact Veritas Support and ask for the EEB associated with Etrack 4068095 for NetBackup 10.0.</p> <p>Emulex LPe31002 HBA requires firmware version 12.8.340.8.</p> <p>Emulex LPe35000 series HBAs require firmware version 12.8.542.26.</p>
Red Hat Enterprise Linux 8 on x86-64	Update 6	10.1.1	<p>Marvell QLogic 4 Gb HBAs (QLE2400 series) are not supported.</p> <p>Marvell QLogic QLE2692 16 Gb and QLE2562 8 Gb HBAs are supported.</p> <p>Broadcom/Emulex LPe35000/LPe31000 series HBAs are supported.</p> <p>Emulex LPe31000 series and LPe35000 series HBAs require firmware version 12.8.614.17.</p> <p>Marvell QLogic QLE2770 and QLE2772 32 Gb HBAs are supported from NetBackup 10.3.</p>
Red Hat Enterprise Linux 8 on x86-64	Update 8	10.4	

Fibre Transport Media Server - Vendor Compatibility

Contents

[Broadcom Emulex](#)

[Dell EMC](#)

[Hewlett Packard Enterprise](#)

[Hitachi Vantara](#)

[IBM](#)

[Lenovo](#)

[Marvell QLogic](#)

[Oracle](#)

Broadcom Emulex

Broadcom Emulex - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64
LPe31000 / LPe32000 series (Gen 6) [1] [2]	PCIe	7
LPe35000 series	PCIe	7

1. Fibre Transport Media Server is only supported with the LPe31002 member of this family.
2. Requires NetBackup 9.1 or later and Red Hat Enterprise Linux 7 Update 9 or later.

Broadcom Emulex - Family Membership

Device Family	Members
LPe31000 / LPe32000 series (Gen 6)	LPe31000-M6, LPe31002-M6, LPe31004-M6, LPe31004-M6-SIO, LPe32000-M2, LPe32002-M2, LPe32004-M2-SIO
LPe35000 series	LPe35000-M2, LPe35002-M2, LPe35004-M2

Dell EMC

Dell EMC - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
F641C	PCIe	7	12
H144C [1]	PCIe	7	12
LPe35000-D-Series	PCIe	7	No
QLE2560-E	PCIe	7	12
QLE2562-E [1]	PCIe	7	12

1. Please see Knowledge Base Article [100005932 <https://www.veritas.com/docs/100005932>](https://www.veritas.com/docs/100005932)

Dell EMC - Family Membership

Device Family	Members
LPe35000-D-Series	406-BBMO/406-BBMQ (LP), 406-BBMP/406-BBMR (FH)

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
AJ764A [1]	PCIe	7	12
AK344A	PCIe	7	12
QMH2562-HP-BK	PCIe	No	12
QMH2572-HP-SP	PCIe	No	12
SN1610E series	PCIe	7	No

1. Please see Knowledge Base Article [100005932](https://www.veritas.com/docs/100005932) <<https://www.veritas.com/docs/100005932>>

Hewlett Packard Enterprise - Family Membership

Device Family	Members
SN1610E series	R2J62A (SN1610E), R2J63A (SN1610E)

Hitachi Vantara

Hitachi Vantara - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLE2560-CK	PCIe	7	12
QLE2562-CK [1]	PCIe	7	12

1. Please see Knowledge Base Article [100005932](https://www.veritas.com/docs/100005932) <<https://www.veritas.com/docs/100005932>>

IBM

IBM - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
42D0501	PCle	7	12
42D0510 [1]	PCle	7	12

1. Please see Knowledge Base Article [100005932](https://www.veritas.com/docs/100005932) <<https://www.veritas.com/docs/100005932>>

Lenovo

Lenovo - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64
ThinkSystem Emulex LPe35000 series	PCIe	7

Lenovo - Family Membership

Device Family	Members
ThinkSystem Emulex LPe35000 series	4XC7A08250, 4XC7A08251, 4XC7A76498, 4XC7A76525

Marvell QLogic

Marvell QLogic - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLE2500 series [1]	PCIe	7	12
QLE2690 series [2]	PCIe	7	No
QLE2770 series [3]	PCIe	8	No

1. Please see Knowledge Base Article [100005932 <https://www.veritas.com/docs/100005932>](https://www.veritas.com/docs/100005932)
2. Fibre Transport Media Server is only supported with the QLE2692 member of this family.
3. Fibre Transport Media Server is only supported with the QLE2770 and QLE2772 member of this family.

Marvell QLogic - Family Membership

Device Family	Members
QLE2500 series	QLE2560, QLE2562, QLE2562-S, QLE2564, QME2572, QMH2562, QMH2572, QMI2582, QMI3572
QLE2690 series	QLE2690, QLE2692, QLE2694, QLE2694L, QLE2694U
QLE2770 series	QLE2770, QLE2772, QLE2774

Oracle

Oracle - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
SG-XPCiE1FC-QF8-N	PCle	7	12
SG-XPCiE2FC-QF8-N [1]	PCle	7	12

1. Please see Knowledge Base Article [100005932 <https://www.veritas.com/docs/100005932>](https://www.veritas.com/docs/100005932)

Infrastructure Used for Testing

The NetBackup Shared Storage Option (SSO) hardware support model for Storage Area Network (SAN) components is an open model. In other words, all Fibre Channel over Ethernet (FCoE) converged network adapters (CNA), Fibre Channel (FC) host bus adapters (HBA), switches, bridges, and routers are supported in a SAN environment. This means that if a FCoE or FC component is causing a problem, Veritas will work with the component vendor in an attempt to resolve the problem, but resolution is not guaranteed. Veritas and most hardware vendors listed are members of TSANet.

Contents

<u>Infrastructure - Considerations</u>	<u>CNAs</u>	<u>HBAs</u>
<u>Bridges/Routers</u>	<u>Switches</u>	

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components.

CNAs

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

CNAs - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" <https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf> .</p> <ol style="list-style-type: none"> Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported. Where support is shown for "Windows Server 2022 Datacenter" it also means that the other editions of Windows Server 2022 are supported. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported. SUSE Linux Enterprise Server 12 support requires SP3 or later.
Vendor support considerations	1. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).
Configuration considerations	1. All like CNAs within a SAN should use the same firmware, BIOS and driver revision as recommended by CNA vendors.

Infrastructure - CNAs Used In Testing

Contents

Hewlett Packard Enterprise

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
554FLR	PCIe	Datacenter	No
650FLB	PCIe	Datacenter	7
CN1000Q	PCIe	Datacenter	No

HBAs

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

HBAs - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 10.0 - 10.x.x Operating System Software Compatibility List" https://www.veritas.com/bin/support/docRepoServlet?bookId=NB_10_OSSCL&requestType=pdf .</p> <ol style="list-style-type: none"> Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported. Where support is shown for "Windows Server 2022 Datacenter" it also means that the other editions of Windows Server 2022 are supported. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported. SUSE Linux Enterprise Server 12 support requires SP3 or later.
Vendor support considerations	<ol style="list-style-type: none"> All like HBAs within a SAN should use the same firmware, BIOS and driver revision as recommended by HBA vendors. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).

Infrastructure - HBAs Used In Testing

Contents

<u>ATTO</u>	<u>Broadcom Emulex</u>	<u>Brocade</u>
<u>Hewlett Packard Enterprise</u>	<u>Marvell QLogic</u>	

ATTO

ATTO - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Windows Server 2016 x64	SUSE Linux Enterprise Server on x86-64
FC 16Gb/s Gen 6	PCIe	Datacenter	No	12
FC 32Gb/s Gen 6	PCIe	No	Datacenter	No

ATTO - Family Membership

Device Family	Members
FC 16Gb/s Gen 6	CTFC-161P, CTFC-162P, CTFC-164P
FC 32Gb/s Gen 6	CTFC-321E, CTFC-322E, CTFC-324E

Broadcom Emulex

Broadcom Emulex - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
LP98xx / 98x series (Pegasus ASIC)	PCI, PCI-X	Datacenter	No	No	7	No
LPe12xxx / 125x series (Saturn ASIC)	PCIe	Datacenter	No	No	No	12
LPe16xxx / 15xxx series (Lancer ASIC)	PCIe	Datacenter	No	No	7	12, 15
LPe31000 / LPe32000 series (Gen 6)	PCIe	Datacenter	Datacenter	Datacenter	No	No
SN1000E	PCIe	No	No	No	7	No
SN1100E2P	PCIe	Datacenter	No	No	7	12

Broadcom Emulex - Family Membership

Device Family	Members
LP98xx / 98x series (Pegasus ASIC)	LP982, LP9802, LP9802DC, LP9802S
LPe12xxx / 125x series (Saturn ASIC)	LPe1205-HP, LPe1250, LPe12000, LPe12000-E, LPe12002, LPe12002-E, LPe12002-M8, LPe12002-X8, LPe12004
LPe16xxx / 15xxx series (Lancer ASIC)	LPe15004, LPe16000-M6, LPe16000B, LPe16000B-M6, LPe16000B-M8, LPe16002-M6, LPe16002B, LPe16002B-M6, LPe16002B-M8, LPe16004, LPe16202 (FC)
LPe31000 / LPe32000 series (Gen 6)	LPe31000-M6, LPe31002-M6, LPe31004-M6, LPe31004-M6-SIO, LPe32000-M2, LPe32002-M2, LPe32004-M2-SIO

Brocade

Brocade - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
425	PCIe	Datacenter	No	No
825	PCIe	Datacenter	7	No
1860 (FC)	PCIe	No	7	12

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
AH403A	PCIe	No	No	No	12
AJ763A	PCIe	Datacenter	Datacenter	No	No
SN1000E	PCIe	Datacenter	Datacenter	7	No
SN1000Q / SN1100Q series	PCIe	No	No	7, 8	12
SN1600E	PCIe	No	No	No	15

Hewlett Packard Enterprise - Family Membership

Device Family	Members
SN1000Q / SN1100Q series	SN1000Q, SN1100Q

Marvell QLogic

Marvell QLogic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLE2400 series	PCIe	Datacenter	No	No	No	No
QLE2500 series	PCIe	Datacenter	Datacenter	No	7	No
QLE2600 series	PCIe	Datacenter	No	Datacenter	7	12
QLE2670 series	PCIe	Datacenter	Datacenter	No	7	No
QLE2700 series	PCIe	No	No	No	No	12
SANblade 23xx series	PCI, PCI-X, SBUS, cPCI	No	No	Datacenter	No	No
SANblade 24xx series	PCI-X, PCIe	Datacenter	No	No	7	No

Marvell QLogic - Family Membership

Device Family	Members
QLE2400 series	QLE2440, QLE2460, QLE2462, QLE2464, QME2462, QMI2572
QLE2500 series	QLE2560, QLE2562, QLE2562-S, QLE2564, QME2572, QMH2562, QMH2572, QMI2582, QMI3572
QLE2600 series	QLE2660, QLE2662
QLE2670 series	QLE2670, QLE2672
QLE2700 series	QLE2740, QLE2742, QLE2764
SANblade 23xx series	QCP2332, QCP2340, QLA2300, QLA2302, QLA2310, QLA2332, QLA2340, QLA2340C, QLA2342, QLA2344, QSB2340, QSB2342
SANblade 24xx series	QLA2440, QLA2460, QLA2462

Bridges/Routers

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	<ol style="list-style-type: none"> 1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components. 2. Consult the hardware vendor's web site for current firmware.

Infrastructure - Routers/Bridges Used In Testing

Contents

Bridges/Routers

Bridges/Routers

Manufacturer	Device
ADIC	SNC 4000 (embedded), SNC 5100, SNC 6101, SNC 6404
ATTO	FiberBridge 1290, FibreBridge 2400
Chaparral	FS1310, VFS113
Compaq	Modular Data Router
Crossroads	4250, 6000, 8000, 10000
Dell EMC	PV-136T (FCR embedded)
Hewlett Packard Enterprise	400 Multi-Protocol Router, e1200-160 FC Interface Controller, e2400-160 FC Interface Controller, e2400-FC 2Gb Interface Controller, e2400-FC 4Gb Interface Controller, N1200 4Gb
Qualstar	VFS212 embedded router
Quantum	FC310, FC470, FC1202
Spectra Logic	F-QIP

Switches

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	<ol style="list-style-type: none"> 1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components. 2. Consult the hardware vendor's web site for current firmware.

Infrastructure - Switches Used In Testing

Contents

Switches

Switches

Manufacturer	Device
ADIC	SNC 7404
Brocade	4Gb SAN Switch for HP c-Class BladeSystem, 300, 5000, 5100, 7500 Extension Switch, SilkWorm 200E, SilkWorm 220E, SilkWorm 240E, SilkWorm 2400, SilkWorm 2800, SilkWorm 3200, SilkWorm 3250, SilkWorm 3850, SilkWorm 3900, SilkWorm 4100, SilkWorm 4150, SilkWorm 5100, SilkWorm 48000
Cisco Systems	MDS9216, MDS9506, Nexus 5010, Nexus 5020
Dell EMC	DS-16B2
Hewlett Packard Enterprise	2408 FCoE CN Switch, SAN Switch 2/16, SAN Switch 4/16, SAN Switch 4/32, SAN Switch 8/40, SAN Switch 8/80, SAN Switch SN6000B 16GB 48/48
IBM	TotalStorage Storage Switch L10
Marvell QLogic	SANbox2-8, SANbox2-16, SANbox 1400, SANbox 3600, SANbox 5200, SANbox 5600, SANbox 5602, SANbox 5802, SANbox 9000, SANbox 9200
McDATA	Intrepid 6140, Sphereon 3232, Sphereon 4500
Sun	SG-XSW64-BASE

Retiring Soon

The devices in this section will not be listed in the Hardware Compatibility List for the next major NetBackup release after NetBackup 10.0. Many of these devices are end-of-life products that are no longer supported by the manufacturer.

Virtual Tape Libraries

Manufacturer	Device
Quantum	DXi6700 Series, DXi8500 Series

Tape Libraries

Manufacturer	Device
Quantum	Scalar i40, Scalar i40/i80 series, Scalar i80

ExaGrid

ExaGrid - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
EX series	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
EX series	V11.4.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes

ExaGrid - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64
EX series	10.0	Ethernet	No	A.I.R., Accelerator, AcceI_Hyper-V, AcceI_NDMP, AcceI_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	7
EX series	V11.4.0	Ethernet	No	A.I.R., Accelerator, AcceI_Hyper-V, AcceI_NDMP, AcceI_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Datacenter	Datacenter	7