

# Veritas NetBackup <sup>TM</sup> Enterprise Server and Server 8.2 - 8.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 8.2 - 8.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 <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 <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 <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)

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# 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 [<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™ 8.0 - 8.x.x Compatibility Lists

Compatibility List Name	URL
NetBackup Enterprise Server and Server 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List (Contains hardware and cloud compatibility info for earlier NetBackup 8.x versions)	<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_HCL">&lt;https://www.veritas.com/content/support/en_US/doc/NB_80_HCL&gt;</a>
NetBackup Enterprise Server and Server 8.0 - 8.x.x OS Software Compatibility List (Contains compatibility info for Client, Server, Cluster, NOM, NDMP, BMR, SAN Client, MSEO)	<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">&lt;https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL&gt;</a>
NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List	<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_DBSCCL">&lt;https://www.veritas.com/content/support/en_US/doc/NB_80_DBSCCL&gt;</a>
Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments	<a href="https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE">&lt;https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE&gt;</a>
NetBackup for NDMP: NAS appliance information	<a href="https://www.veritas.com/docs/100016340">&lt;https://www.veritas.com/docs/100016340&gt;</a>
Entire listing of NetBackup Compatibility Lists	<a href="http://www.netbackup.com/compatibility">&lt;http://www.netbackup.com/compatibility&gt;</a>

# 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/58500769-135186602-0/v95640454-135186602)" [<https://www.veritas.com/content/support/en\\_US/doc/58500769-135186602-0/v95640454-135186602>](https://www.veritas.com/content/support/en_US/doc/58500769-135186602-0/v95640454-135186602) .

## Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.10.7	Media Server: 8.0 or later	Media Server: <a href="https://www.veritas.com/content/support/en_US/downloads/update.UPD971796.html">https://www.veritas.com/content/support/en_US/downloads/update.UPD971796.html</a>	Added support: - AWS S3 data (S3)  Added earlier support not included in NetBackup 10.2 release: - 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

## Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.10.6	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - STACKIT Object Storage (S3) - Backblaze B2 Cloud Storage (S3) - NEC Cloud IaaS Object Storage (N2) (S3)
2.10.5	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Spectra Logic Vail (S3) - DataCore Swarm (S3) - Google (S3) - Middle East West1 (Tel Aviv) region  Added earlier support not included in NetBackup 10.1.1 release: - 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.	Added support: - Google (S3) - EU West8 (Milan) region
2.10.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - 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.	Added support: - 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.	Added support: Added earlier support not included in NetBackup 10.1 release: - 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
2.9.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Google (S3) - US East5 (Columbus) region - Google (S3) - US South1 (Dallas) region
2.9.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - 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.	Added support: - Wasabi (S3) - AP Southeast 2 (Sydney) region - Wasabi (S3) - EU Central 2 (Frankfurt) region - Wasabi (S3) - CA Central 1 (Toronto) region
2.8.8	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - 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
2.8.7	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Amazon Glacier Instant Retrieval (IR) - Amazon GovCloud - Glacier Instant Retrieval (IR)
2.8.6	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Veritas NetBackup Recovery Vault Azure - Veritas NetBackup Recovery Vault Azure Government

## Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.8.5	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Wasabi Hot Cloud Storage (S3)
2.8.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Google (S3) - Asia-Northeast3 (Seoul) region - Google (S3) - Asia-Southeast2 (Jakarta) region - Google (S3) - EU-Central2 (Warsaw) region - IBM (S3) - Amsterdam, Netherlands region - IBM (S3) - Chennai, India region - IBM (S3) - EU Germany region - IBM (S3) - Hong Kong S.A.R. of the PRC region - IBM (S3) - Mexico City, Mexico region - IBM (S3) - Milan, Italy region - IBM (S3) - Montreal, Canada region - IBM (S3) - Oslo, Norway region - IBM (S3) - Paris, France region - IBM (S3) - San Jose, US region - IBM (S3) - Sao Paulo, Brazil region - IBM (S3) - Seoul, South Korea region - IBM (S3) - Singapore region - Nutanix Objects (S3) - updated provider portal URL Added in NetBackup 9.1 release: - Amazon (S3) - US East (N. Virginia FIPS 140-2) region - Amazon (S3) - US East (Ohio FIPS 140-2) region - Amazon (S3) - US West (Northern California FIPS 140-2) region - Amazon (S3) - US West (Oregon FIPS 140-2) region
2.8.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - IBM (S3) - AP Osaka region - Seagate Lyve Cloud (S3)
2.8.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - IBM (S3) - AP Australia region - IBM (S3) - AP Tokyo region - Corrected entry for XSKY Enterprise Object Storage (S3) - Corrected region name: IBM (S3) - AP United Kingdom - Removed decommissioned region: IBM (S3) - AUS Melbourne Added earlier support not included in NetBackup 9.0 release: - Google (S3) - US-West3 (Salt Lake City) region - Google (S3) - US-West4 (Las Vegas) region
2.8.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	- Dell EMC Isilon PowerScale (S3) - XSKY Enterprise Object Storage (S3) Added earlier support not included in NetBackup 9.0 release: - Tencent Cloud - Cloud Object Storage (COS) (S3)

# Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.7.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Tencent Cloud - Cloud Object Storage (COS) (S3)
2.7.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Google (S3) - US-West3 (Salt Lake City) region - Google (S3) - US-West4 (Las Vegas) region
2.7.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added earlier support not included in NetBackup 8.3 release: - Amazon (S3) - Africa (Cape Town) region - Amazon (S3) - Asia Pacific (Hong Kong) region - Amazon (S3) - Europe (Milan) region - Amazon (S3) - Europe (Stockholm) region - Amazon (S3) - Middle East (Bahrain) region - Google (S3) - Asia-East2 region - Google (S3) - Asia-Northeast2 region - Google (S3) - Asia-South1 region - Google (S3) - EU-North1 region - Google (S3) - EU-West4 region - Google (S3) - EU-West6 region - Google (S3) - NorthAmerica-Northeast1 region - Google (S3) - SouthAmerica-East1 region - Google (S3) - US-West2 region - Hitachi Vantara Cloud Scale (S3) - Nutanix Buckets (S3) - Orange Business Systems Flexible Engine OBS (S3) - SandStone MOS (S3) - SwiftStack Object Storage (S3) buffer size changes
2.6.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Amazon (S3) - Africa (Cape Town) region - Amazon (S3) - Europe (Milan) region - Amazon (S3) - Europe (Stockholm) region - Hitachi Vantara CloudScale (S3) buffer size changes
2.6.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Hitachi Vantara CloudScale (S3)
2.6.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: - Amazon (S3) - Asia Pacific (Hong Kong) region - Amazon (S3) - Middle East (Bahrain) region - Google (S3) - Asia-East 2 region - Google (S3) - Asia-Northeast 2 region - Google (S3) - EU-West 6 region - Orange Business Systems Flexible Engine OBS (S3) - SandStone MOS (S3) - SwiftStack Object Storage (S3) buffer size changes



## Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.6.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: <ul style="list-style-type: none"> <li>- Google (S3) - Asia-South1 region</li> <li>- Google (S3) - EU-North1 region</li> <li>- Google (S3) - EU-West4 region</li> <li>- Google (S3) - NorthAmerica-Northeast1 region</li> <li>- Google (S3) - SouthAmerica-East1 region</li> <li>- Google (S3) - US-West2 region</li> </ul> Added earlier support not included in NetBackup 8.2 release: <ul style="list-style-type: none"> <li>- Nutanix Buckets (S3)</li> </ul>

## Cloud Configuration File Versions released with NetBackup and NetBackup Appliances

NetBackup / NetBackup Appliance version	Cloud Configuration File version
8.3.0.2	2.7.1
8.3.0.1/3.3.0.1	2.7.1
8.3	2.7.0
8.2 / 3.2	2.6.0

## Cloud Configuration File Versions included in NetBackup Appliance cloud configuration and device mappings RPMs

NetBackup Appliance RPM version	Cloud Configuration File version
1.0.6	2.5.2
1.0.5	2.5.1
1.0.4	2.4.5
1.0.3	2.4.4
1.0.2	2.4.3

## Cloud Configuration File Versions included in NetBackup Appliance cloud configuration and device mappings RPMs

NetBackup Appliance RPM version	Cloud Configuration File version
1.0.1	2.4.1

## 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 8.2 / NetBackup Appliance 3.2 and each subsequent Release Update.

The third table lists the version of the device mappings file contained in each version of the NetBackup Appliance 3.1 and later cloud configuration and device mappings updates RPM.

## Device Mappings Files Packages

Version	OS platforms / URL	Support added
1.174	Linux/UNIX: < <a href="https://www.veritas.com/content/support/en_US/downloads/update.UPD399544.html">https://www.veritas.com/content/support/en_US/downloads/update.UPD399544.html</a> > Windows: < <a href="https://www.veritas.com/content/support/en_US/downloads/update.UPD620485.html">https://www.veritas.com/content/support/en_US/downloads/update.UPD620485.html</a> >	- 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
1.169	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 Files Packages

Version	OS platforms / URL	Support added
1.168	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Veritas NetBackup Recovery Vault Azure - Veritas NetBackup Recovery Vault Azure Government
1.167	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Wasabi Hot Cloud Storage (S3)
1.166	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Seagate Lyve Cloud (S3)
1.165	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Dell EMC Isilon PowerScale (S3) - XSKY Enterprise Object Storage (S3)
1.164	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Tencent Cloud - Cloud Object Storage (COS) (S3)
1.163	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Targeted A.I.R. support enabled for Quantum DXi4800/DXi6900/DXi9000 Series OpenStorage solutions
1.162	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Updated the Readme.txt file
1.161	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Hitachi Vantara CloudScale (S3)
1.160	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- NetBackup Accelerator support enabled for Infinidat InfiniGuard OpenStorage solutions - Targeted A.I.R. support enabled for ExaGrid EX series OpenStorage solutions
1.158	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Orange Business Systems Flexible Engine OBS (S3) - SandStone MOS (S3)
1.157	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- LTO-8 support for ACSLS
1.156	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Nutanix Buckets (S3)
1.155	Linux/UNIX: Use the most recent version above. Windows: Use the most recent version above.	- Spectra Logic Spectra Stack tape library

## Device Mappings Versions released with NetBackup and NetBackup Appliances

NetBackup / NetBackup Appliance version	Device Mappings version
8.3.0.2	1.163
8.3.0.1 / 3.3.0.1	1.163
8.3	1.162

## Device Mappings Versions released with NetBackup and NetBackup Appliances

NetBackup / NetBackup Appliance version	Device Mappings version
8.2 / 3.2	1.154

## Device Mappings Versions included in NetBackup Appliance cloud configuration and device mappings RPMs

NetBackup Appliance RPM version	Device Mappings version
1.0.6	1.154
1.0.5	1.154
1.0.4	1.153
1.0.3	1.153
1.0.2	1.152
1.0.1	1.150

# 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](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"><li>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 8.0 - 8.x.x Operating System Software Compatibility List" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; . For details on NetBackup minimum resource requirements, please refer to "Installation and upgrade requirements for UNIX and Linux" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/27801100-136237906-0/v112189449-136237906">https://www.veritas.com/content/support/en_US/doc/27801100-136237906-0/v112189449-136237906</a>&gt; or "Installation and upgrade requirements for Windows and Windows clusters" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/27801100-136237906-0/v112189469-136237906">https://www.veritas.com/content/support/en_US/doc/27801100-136237906-0/v112189469-136237906</a>&gt; in the NetBackup Installation Guide.</li><li>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.</li><li>3. NetBackup-certified cloud object storage support is listed in the vendor tables in the Cloud Storage Solutions section of this HCL.</li><li>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 <a href="#">Setting up NetBackup CloudCatalyst in AWS</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/CC_AWS_guide">https://www.veritas.com/content/support/en_US/doc/CC_AWS_guide</a>&gt; and <a href="#">NetBackup in the Cloud - Guidelines for AWS Deployments</a> &lt;<a href="https://www.veritas.com/content/dam/Veritas/docs/briefs/NBU-Guidelines-for-AWS-Deployments.pdf">https://www.veritas.com/content/dam/Veritas/docs/briefs/NBU-Guidelines-for-AWS-Deployments.pdf</a>&gt; .</li></ol>

## 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	< <a href="https://www.veritas.com/solution/amazon-web-services">https://www.veritas.com/solution/amazon-web-services</a> >
Google	< <a href="https://www.veritas.com/solution/google-cloud-platform">https://www.veritas.com/solution/google-cloud-platform</a> >
IBM	< <a href="https://www.veritas.com/solution/ibm-cloud">https://www.veritas.com/solution/ibm-cloud</a> >
Microsoft	< <a href="https://www.veritas.com/solution/microsoft-cloud">https://www.veritas.com/solution/microsoft-cloud</a> >
Oracle	< <a href="https://www.veritas.com/solution/oracle-cloud">https://www.veritas.com/solution/oracle-cloud</a> >

# Core NetBackup Deployments in the Cloud - Deployment Templates

## Contents

[Amazon](#)

[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	<a href="https://aws.amazon.com/marketplace/pp/B07N2F4PV7">Veritas NetBackup for AWS (BYOL)</a> <https://aws.amazon.com/marketplace/pp/B07N2F4PV7>	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	<a href="https://azuremarketplace.microsoft.com/en-us/marketplace/apps/veritas.veritas-netbackup-8-s?tab=Overview">Veritas NetBackup on Azure Marketplace</a> <https://azuremarketplace.microsoft.com/en-us/marketplace/apps/veritas.veritas-netbackup-8-s?tab=Overview>	Yes	Yes	All Locales

# NetBackup CloudPoint In-Cloud Data Protection

NetBackup CloudPoint In-Cloud Data Protection is available in NetBackup 8.3 and later.

## Contents

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

# NetBackup CloudPoint In-Cloud Data Protection - System Requirements

## NetBackup CloudPoint In-Cloud Data Protection - Supported File Systems

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

### NetBackup CloudPoint In-Cloud Data Protection - File system support

Operating System	Supported File Systems
Linux	<a href="#">[1]</a> ext3, ext4, xfs
Windows	NTFS

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



# NetBackup CloudPoint In-Cloud Data Protection - High Level Feature Support

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

## NetBackup CloudPoint 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	MongoDB	Snapshot Replication
Linux	Yes	Yes	Yes	Yes	No	Yes	Yes
Windows	Yes	No	Yes	No	Yes	No	Yes

## NetBackup CloudPoint 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	MongoDB	Snapshot Replication
Linux	Yes	Yes	Yes	No	No	Yes	No
Windows	No	No	No	No	No	No	No

## NetBackup CloudPoint 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	MongoDB	Snapshot Replication
Linux	Yes	Yes	Yes	Yes	No	Yes	No
Windows	Yes	No	Yes	No	Yes	No	No

# NetBackup CloudPoint In-Cloud Data Protection - Restore Options from Snapshots

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

## NetBackup CloudPoint 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 <a href="#">[1]</a>	Yes	Yes <a href="#">[2]</a>
Volumes	Yes	Yes	No	No	No
Hosted Applications	Yes	Yes	No	No	No
PaaS Applications: Amazon RDS, Aurora	Yes	Yes	No	No	No

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

## NetBackup CloudPoint 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 <a href="#">[1]</a>
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 CloudPoint 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 <a href="#">[1]</a>
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 CloudPoint In-Cloud Data Protection Replication Support Across Regions

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

## NetBackup CloudPoint 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 CloudPoint In-Cloud Data Protection Replication Support Across Accounts

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

## NetBackup CloudPoint In-Cloud Data Protection Replication Support - Amazon Web Services

Asset	Replication support
Virtual Machine	No
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 CloudPoint In-Cloud Data Protection Restore Options for Snapshots Replicated Across Regions

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

## NetBackup CloudPoint 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 <a href="#">[1]</a>
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 CloudPoint In-Cloud Data Protection Restore Options for Snapshots Replicated Across Accounts

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

## NetBackup CloudPoint 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	No	No	Yes	Yes <a href="#">[1]</a>
Volumes	No	Yes - Restore to VM in the locale of user's choice	No	No	No
Hosted Applications	No	No	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 CloudPoint In-Cloud Data Protection Supported Regions

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

## NetBackup CloudPoint 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)
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-South1 (zones a, b, c), Asia-Southeast1 (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)
Microsoft Azure	All regions

# NetBackup CloudPoint In-Cloud Data Protection - Database Applications

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

# MongoDB

## MongoDB - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"><li>1. Supported with standalone MongoDB instance.</li><li>2. Supported with MongoDB running on the following cloud instance types:<ul style="list-style-type: none"><li>- Amazon Web Services: t2.large/t3.large or later</li><li>- Google Cloud Platform: n1-standard-2 or later</li><li>- Microsoft Azure: Standard D2s v3 or later (2 vCPUs, 8 GB memory)</li></ul></li><li>3. For more information on configuring MongoDB, see "<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444144-141220024">MongoDB plug-in configuration notes</a>" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444144-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444144-141220024</a>&gt; in the Veritas NetBackup CloudPoint Install and Upgrade Guide.</li></ol>

## MongoDB - Supported Functionality

Application version	Platform	Snapshot Restore	Supported OS platforms	On-Host Agent Support	Agentless Support
3.6	Amazon Web Services	Yes	Red Hat Enterprise Linux 7.x	Yes	Yes
3.6	Google Cloud Platform	Yes	Red Hat Enterprise Linux 7.x	Yes	Yes
3.6	Microsoft Azure	Yes	Red Hat Enterprise Linux 7.x	Yes	Yes



# Microsoft SQL

## Microsoft SQL - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"><li>1. Supported with SQL Server standalone instance on non-system drives.</li><li>2. Supported with SQL on-host agent running on the following cloud instance types:<ul style="list-style-type: none"><li>- Amazon Web Services: t2.large/t3.large or later</li><li>- Microsoft Azure: Standard D4s v3 or later (4 vCPUs, 16 GB memory)</li></ul></li><li>3. Original location restore is not applicable for SQL AG databases.</li><li>4. For more information on restore requirements and limitations for SQL applications, see "<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141135743-141220024">Restore requirements and limitations for Microsoft SQL Server</a>" <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141135743-141220024">&lt;https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141135743-141220024&gt;</a> in the Veritas NetBackup CloudPoint Install and Upgrade Guide.</li><li>5. For more information on restoring SQL AG databases, see "<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141133724-141220024">Steps required before restoring SQL AG databases</a>" <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141133724-141220024">&lt;https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141133724-141220024&gt;</a> and "<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141139713-141220024">Additional steps required after restoring SQL AG databases</a>" <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141139713-141220024">&lt;https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141139713-141220024&gt;</a> in the Veritas NetBackup CloudPoint Install and Upgrade Guide.</li><li>6. For more information on configuring Microsoft SQL, see "<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141134605-141220024">Microsoft SQL plug-in configuration notes</a>" <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141134605-141220024">&lt;https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141134605-141220024&gt;</a> in the Veritas NetBackup CloudPoint Install and Upgrade Guide.</li></ol>

## Microsoft SQL - Supported Functionality

Application version	Platform	Snapshot Restore	Supported OS platforms	On-Host Agent Support	Agentless Support
2014, 2016, 2017	Amazon Web Services	Yes	Windows 2012 R2, 2016	Yes	No
2014, 2016, 2017	Microsoft Azure	Yes	Windows 2012 R2, Windows 2016	Yes	No

# Oracle

## Oracle - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"><li>1. Supported with Oracle standalone databases.</li><li>2. Supported with Oracle running on the following cloud instance types:<ul style="list-style-type: none"><li>- Amazon Web Services: t2.large/t3.large or later</li><li>- Microsoft Azure: Standard D2s v3 or later (2 vCPUs, 8 GB memory)</li></ul></li><li>3. Disk-level snapshot and restore are only supported if the database resides on a non-system drive.</li><li>6. For more information on configuring Oracle, see "<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444064-141220024">Oracle plug-in configuration notes</a>" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444064-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141444064-141220024</a>&gt; in the Veritas NetBackup CloudPoint Install and Upgrade Guide.</li></ol>

## Oracle - Supported Functionality

Application version	Platform	Snapshot Restore	Supported OS platforms	On-Host Agent Support	Agentless Support
12c, 18c	Amazon Web Services	Yes	Red Hat Enterprise Linux 7.x	Yes	Yes
12c, 18c	Microsoft Azure	Yes	Red Hat Enterprise Linux 7.x	Yes	Yes

# 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/CloudCatalyst), 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](https://www.veritas.com/content/support/en_US/downloads)> .

NOTE: References to NetBackup 5200 and 5220 Appliances have been removed from this document since these models are no longer supported.

### NetBackup 5300 Series - Supported Versions

NetBackup 5300 Series Appliance Release	Supported NetBackup Appliance Models	Based on NetBackup Release
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
3.3.0.1	5250, CloudCatalyst 5240, 5240, 5230	8.3.0.1
3.2	5250 [1], CloudCatalyst 5240, 5240, 5230	8.2
3.1.2	CloudCatalyst 5240, 5240, 5230	8.1.2
3.1.1	CloudCatalyst 5240, 5240, 5230	8.1.1
3.1	CloudCatalyst 5240, 5240, 5230	8.1

## NetBackup 5200 Series - Supported Versions

NetBackup 5200 Series Appliance Release	Supported NetBackup Appliance Models	Based on NetBackup Release
3.0	5240, 5230	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
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)
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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[7]</a> <a href="#">[8]</a>
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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[7]</a> <a href="#">[8]</a>
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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[7]</a>
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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>
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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>
1.3.1	5340 (Configuration A), 5150	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 <a href="#">[9]</a>	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 <a href="#">[9]</a>	Not supported
1.3	5340 (Configuration A), 5150	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 <a href="#">[9]</a>	8.3.0.1, 8.2, 8.1.2, 8.1.1, 8.1 <a href="#">[9]</a>	Not supported

1. WORM storage server version 13.0.2 requires NetBackup primary and media server version 8.3.0.2 or later.

2. WORM storage server version 14.0 requires NetBackup primary and media server version 9.0 or later.

3. WORM storage server version 14.0.1 requires NetBackup primary and media server version 9.0.0.1 or later.

4. WORM storage server version 15.0 requires NetBackup primary and media server version 9.1 or later.
5. WORM storage server version 15.0.2 requires NetBackup primary and media server version 9.1.0.1 or later.
6. WORM storage server version 16.0 requires NetBackup primary and media server version 10.0 or later.
7. WORM storage server version 16.0.1 requires NetBackup primary and media server version 10.0.0.1 or later.
8. WORM storage server version 17.0 requires NetBackup primary and media server version 10.1 or later.
9. Veritas strongly recommends running NetBackup 8.2 or later with Flex Appliance.

# Configuring Cloud Solutions with NetBackup CloudCatalyst Appliances

The table below shows when a NetBackup cloud configuration and device mappings RPM package is required for configuring cloud providers with NetBackup CloudCatalyst 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/101879532-137464882-0/index) [<https://www.veritas.com/content/support/en\\_US/doc/101879532-137464882-0/index>](https://www.veritas.com/content/support/en_US/doc/101879532-137464882-0/index) .

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

Cloud solution	NetBackup Appliances running 3.2	NetBackup Appliances running 3.3.0.1
ACP CS3 (S3)	Included in release	Included in release
Alibaba Cloud Object Storage Service (OSS) (S3)	Included in release	Included in release
Amazon Glacier (S3)	Included in release	Included in release
Amazon Glacier Deep Archive (S3)	Included in release	Included in release
Amazon GovCloud Glacier (S3)	Included in release	Included in release
Amazon GovCloud Glacier Deep Archive (S3)	Included in release	Included in release
Amazon GovCloud Simple Storage Service (S3)	Included in release	Included in release
Amazon GovCloud Simple Storage Service - Infrequent Access (S3)	Included in release	Included in release
Amazon Simple Storage Service (S3)	Included in release	Included in release
Amazon Simple Storage Service - Infrequent Access (S3)	Included in release	Included in release
Amazon Simple Storage Service - OneZone-Infrequent Access (S3)	Included in release	Included in release
AT&T Cloud Storage (S3)	Included in release	Included in release
China Mobile CMCC Cloud Storage (S3)	Included in release	Included in release
China Telecom OOS (S3)	Included in release	Included in release
Chunghwa Telecom Hicloud S3 (S3)	Included in release	Included in release
Cloudian HyperStore Object Storage (S3)	Included in release	Included in release
Dell EMC Elastic Cloud Storage (S3)	Included in release	Included in release
Deutsche Telekom Open Telekom Cloud (S3)	Included in release	Included in release
Fujitsu ETERNUS CD10000 (S3)	Included in release	Included in release
Google Cloud Storage - Multi-Regional (S3)	Included in release	Included in release
Google Cloud Storage - Regional (S3)	Included in release	Included in release
Google Cloud Storage Coldline (S3)	Included in release	Included in release
Google Cloud Storage Nearline (S3)	Included in release	Included in release
Hitachi Vantara Content Platform (HCP) (S3)	Included in release	Included in release

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

Cloud solution	NetBackup Appliances running 3.2	NetBackup Appliances running 3.3.0.1
Hitachi Vantara Cloud Scale (S3)	Not Supported	Included in release
IBM Cloud Object Storage - Cold Vault (S3)	Included in release	Included in release
IBM Cloud Object Storage - Flex (S3)	Included in release	Included in release
IBM Cloud Object Storage - Private (S3)	Included in release	Included in release
IBM Cloud Object Storage - Standard (S3)	Included in release	Included in release
IBM Cloud Object Storage - Vault (S3)	Included in release	Included in release
Infonika SWISS3CLOUD (S3)	Included in release	Included in release
Kingsoft Standard Storage Service (KS3) - Standard (S3)	Included in release	Included in release
Kingsoft Standard Storage Service (KS3) - Standard IA (S3)	Included in release	Included in release
Microsoft Azure (Azure)	Included in release	Included in release
Microsoft Azure Germany (Azure)	Included in release	Included in release
Microsoft Azure Government (Azure)	Included in release	Included in release
NEC Cloud IaaS (S3)	Included in release	Included in release
NEC HYDRastor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) (S3)	Included in release	Included in release
NEC HYDRastor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) (S3)	Included in release	Included in release
NetApp StorageGRID Webscale Object Storage (S3)	Included in release	Included in release
NooBaa (S3)	Included in release	Included in release
Nutanix Objects (S3)	Not supported	Included in release
Oracle Cloud Infrastructure (S3)	Included in release	Included in release
Orange Business Services Flexible Engine OBS (S3)	Not supported	Included in release
Quantum Active Archive and ActiveScale Systems (S3) (formerly HGST)	Included in release	Included in release
Quantum Lattus Object Storage (S3)	Included in release	Included in release
Red Hat Ceph Storage (S3)	Included in release	Included in release
SandStone MOS (S3)	Not supportedr	Included in release
Scality RING Storage (S3)	Included in release	Included in release
SUSE Enterprise Storage (S3)	Included in release	Included in release
SwiftStack Object Storage (S3)	Included in release	Included in release
Telefonica Open Cloud (S3)	Included in release	Included in release
Veritas Access (S3)	Included in release	Included in release
Veritas Access 3340 Appliance (S3)	Included in release	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 (3.2 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 8.0 - 8.x.x Operating System Software Compatibility List](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL)" <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_OSSCL](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL)> , application and database agents "[NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List](https://www.veritas.com/content/support/en_US/doc/NB_80_DBSCCL)" <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_DBSCCL](https://www.veritas.com/content/support/en_US/doc/NB_80_DBSCCL)> , 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 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List](#) <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_HCL](https://www.veritas.com/content/support/en_US/doc/NB_80_HCL)> .

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

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
NetBackup Primary/Media Server	3.2	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	3.2	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	3.2	5240 (Configuration G with 192 GB of memory), Virtual	
Accelerator (for files and folders)	3.2	5200 Series, 5300 Series, Virtual	
Accelerator with NDMP	3.2	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 " <a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v106584292-131831692">About the track log for Accelerator for NDMP</a> " < <a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v106584292-131831692">https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v106584292-131831692</a> > .  For more information on this feature, see the " <a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692">About NetBackup Accelerator for NDMP</a> " < <a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692">https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692</a> > .
Accelerator with VMware-type policies	3.2	5200 Series, 5300 Series, Virtual	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Ethernet	3.2	5200 Series, 5300 Series, Virtual	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Fibre Channel (FC)	3.2	5200 Series, 5300 Series	
Auto Image Replication to PDDO/5000 Series	3.2	5200 Series, 5300 Series, Virtual	



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

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
Client Deduplication / Client Direct over Ethernet	3.2	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 <a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a> > .
Copilot for Oracle	3.2	5230, 5240, 5250, 5330, 5340, Virtual	For more information on this feature, see the <a href="https://www.veritas.com/content/support/en_US/doc/114308232-126559107-0/index">"NetBackup Copilot for Oracle Configuration Guide"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/114308232-126559107-0/index">https://www.veritas.com/content/support/en_US/doc/114308232-126559107-0/index</a> > .
Fibre Transport Media Server	3.2	5230, 5240, 5250, 5330, 5340	Supported with 8 Gb HBAs in NetBackup 5230, 5240, 5250, 5330, and 5340 Appliances.  Supported with 16 Gb HBAs in NetBackup 5240 and 5340 Appliances.
FIPS-compliant encryption	3.2	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 <a href="https://www.veritas.com/support/en_US/doc/96220900-132543872-0/index">"NetBackup Appliance Security Guide"</a> < <a href="https://www.veritas.com/support/en_US/doc/96220900-132543872-0/index">https://www.veritas.com/support/en_US/doc/96220900-132543872-0/index</a> > .
Granular Recovery Technology (GRT)	3.2	5200 Series, 5300 Series, Virtual	
Granular Recovery Technology (GRT) with VMware-type policies	3.2	5200 Series, 5300 Series, Virtual	Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint.
Instant Data Access	3.2	5230, 5240, 5250, 5330, 5340	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 <a href="https://www.veritas.com/content/support/en_US/doc/130706365-133278128-0/index">"NetBackup Web UI VMware Administrator's Guide"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/130706365-133278128-0/index">https://www.veritas.com/content/support/en_US/doc/130706365-133278128-0/index</a> > .
Instant Recovery for VMware	3.2	5200 Series, 5300 Series, Virtual	Support for restoring virtual machines with Instant Recovery is described in the <a href="https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index">"NetBackup for VMware Administrator's Guide"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index">https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index</a> > .  For details on supported platforms for instant recovery restore hosts, see <a href="https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE">"Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments"</a> < <a href="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</a> > .
iSCSI Initiator - Hardware-assisted with TCP Offload Engine (TOE) card	3.2	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 <a href="https://www.veritas.com/content/support/en_US/doc/122285129-130445102-0/index">"NetBackup Appliance iSCSI Guide"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/122285129-130445102-0/index">https://www.veritas.com/content/support/en_US/doc/122285129-130445102-0/index</a> > and the <a href="https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index">"NetBackup for VMware Administrator's Guide"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index">https://www.veritas.com/content/support/en_US/doc/21902280-133434834-0/index</a> > .
Key Management Service (KMS)	3.2	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)	3.2	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.
NDMP	3.2	5200 Series, 5300 Series, Virtual	Supported NDMP solutions are listed in the <a href="#">NDMP devices</a> Vendor Compatibility section.

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

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
NetBackup Cluster			There are no plans to support this feature.
NetBackup OpenStorage Cloud and Third-Party Plug-in Support	3.2	5200 Series, 5300 Series, Virtual	Supported plug-ins are listed in the "Support with NetBackup Appliance" tables shown in the <a href="#">OST Cloud</a> and <a href="#">OST Storage Servers</a> Vendor Compatibility sections.  For instructions on installing vendor plug-in packages on NetBackup Appliances, see <a href="#">"About OpenStorage plugin installation"</a> < <a href="https://www.veritas.com/content/support/en_US/doc/75895731-133007275-0/v66702930-133007275">https://www.veritas.com/content/support/en_US/doc/75895731-133007275-0/v66702930-133007275</a> > .
OpsCenter	3.2	5200 Series, 5300 Series, Virtual	
OpsCenter Managed Server	3.2	5200 Series, 5300 Series, Virtual	
Optimized Duplication (Opt_Dup) over Ethernet	3.2	5200 Series, 5300 Series, Virtual	Supported from 5200/5300 Series/Virtual to 5000 Series (MSDP to PDDO) and from 5200/5300 Series/Virtual to 5200/5300 Series/Virtual (MSDP to MSDP).
Optimized Duplication (Opt_Dup) over Fibre Channel (FC)	3.2	5200 Series, 5300 Series	Supported from 5200/5300 Series to 5000 Series (MSDP to PDDO), and from 5200/5300 Series to 5200/5300 Series (MSDP to MSDP)
Optimized Synthetics (Opt_Synth)	3.2	5200 Series, 5300 Series, Virtual	
Tape Drive Support	3.2	5200 Series, 5300 Series	Supported tape drives are listed in the "Support with NetBackup Appliance" tables shown in the <a href="#">Tape Drives</a> Vendor Compatibility section. Shared Storage Option (SSO) is supported.
Tape Library Support	3.2	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 <a href="#">Tape Libraries</a> 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	3.2	5240, 5250, 5330, 5340	For more information on configuring Universal Shares, see <a href="#">Manage &gt; Storage &gt; Universal Shares</a> < <a href="https://www.veritas.com/content/support/en_US/doc/75895731-130448786-0/v127187279-130448786">https://www.veritas.com/content/support/en_US/doc/75895731-130448786-0/v127187279-130448786</a> >
Virtual Tape Library (VTL) Support	3.2	5200 Series, 5300 Series	Supported VTLs are listed in the "Support with NetBackup Appliance" tables shown in the <a href="#">Virtual Tape Libraries</a> 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.

# NetBackup 5000 Series Appliances (Deduplication)

The following table lists NetBackup 5000 Series release versions, the Appliance models supported with each version, and the equivalent Deduplication Appliance software versions. Documentation for NetBackup Appliances [is available here <https://www.veritas.com/docs/100040113>](https://www.veritas.com/docs/100040113) . Late breaking news related to NetBackup Appliances [is available here <https://www.veritas.com/docs/100003949>](https://www.veritas.com/docs/100003949) .

NOTE: References to NetBackup 5000 and 5020 Appliances have been removed from this document since these models are no longer supported.

## NetBackup 5000 Series - Supported Versions

NetBackup 5000 Series Appliance Release	Supported NetBackup Appliance Models	NetBackup 5000 Series Appliance Software Version
1.4.5	5030	6.6.5

## NetBackup 5000 Series Appliance Supported Functionality

The following table lists NetBackup 5000 Series supported functionality and indicates the Appliance software version at which that functionality was first supported.

## NetBackup 5000 Series - Supported Functionality

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
Accelerator (for files and folders)	1.4.5	5030	
Auto Image Replication	1.4.5	5030	
Call Home	1.4.5	5030	
Client Deduplication / Client Direct over Ethernet	1.4.5	5030	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 " <a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">NetBackup 8.0 - 8.x.x Operating System Software Compatibility List</a> " <a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">&lt;https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL&gt;</a> .
Fibre Channel support for PDDO	1.4.5	5030	
Granular Recovery Technology (GRT)	1.4.5	5030	
Intelligent Platform Management Interface (IPMI) support	1.4.5	5030	
NetBackup OST Storage Server	1.4.5	5030	Supported OpenStorage functionality and Media Server platforms are listed in the <a href="#">OST Storage Servers</a> section of OST Secondary Storage Solutions.

## NetBackup 5000 Series - Supported Functionality

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
Optimized Duplication (Opt_Dup)	1.4.5	5030	
Optimized Duplication (Opt_Dup) from PDDO to MSDP	1.4.5	5030	Supported from 5000 Series to 5200/5300 Series.
Optimized Synthetics (Opt_Synth)	1.4.5	5030	
PureDisk Remote Office Appliance	1.4.5	5030	Supported clients: Apple Mac OS, Hewlett Packard Enterprise HP-UX, IBM AIX, Microsoft Windows, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, Oracle Solaris. Supported application agents: Microsoft Exchange, Microsoft SQL, Oracle. For specific versions see the " <a href="http://www.veritas.com/docs/000008731">NetBackup PureDisk 6.6.1 Compatibility List</a> " < <a href="http://www.veritas.com/docs/000008731">http://www.veritas.com/docs/000008731</a> > .
Virtual Local Area Network (VLAN)	1.4.5	5030	

# Snapshot Solutions

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

## NetBackup Snapshot Manager / CloudPoint

Starting with NetBackup 8.3, you can add CloudPoint servers from the NetBackup web UI. You can manage CloudPoint and control discovery of assets from the NetBackup webUI, REST API, and CLI without interacting with the CloudPoint interfaces.

You can upgrade to NetBackup Snapshot Manager from CloudPoint 2.x and later. If you are using a standalone CloudPoint server and want to use it along with NetBackup, you can migrate your CloudPoint server. For more information, see the Veritas NetBackup CloudPoint Install and Upgrade Guide.

## NetBackup Snapshot Manager / CloudPoint - Considerations

Subject	Notes
Vendor support considerations	<div>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.</div> <div>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.</div> <div>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.)</div>

## NetBackup Snapshot Manager / CloudPoint - Vendor Compatibility

### Contents

<a href="#">Dell EMC</a>	<a href="#">Hewlett Packard Enterprise</a>	<a href="#">Hitachi Vantara</a>
<a href="#">Huawei</a>	<a href="#">Infinidat</a>	<a href="#">NetApp</a>
<a href="#">Nutanix</a>	<a href="#">Pure Storage</a>	

## Dell EMC

### Dell EMC - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
Unity series	Unity Operating Environment 4.2 or later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141446690-141220024-0">Dell EMC Unity array plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141446690-141220024-0">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141446690-141220024-0</a> >

### 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	<a href="https://www.dellemc.com/en-us/storage/unity.htm">https://www.dellemc.com/en-us/storage/unity.htm</a>

# Hewlett Packard Enterprise

## Hewlett Packard Enterprise - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
3PAR F-Class/T-Class series	RMC 6.0 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024">HPE RMC plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024</a> >
3PAR StoreServ Storage series	RMC 6.0 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024">HPE RMC plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024</a> >
Nimble Storage series	RMC 6.2 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024">HPE RMC plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442496-141220024</a> >

## 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	<a href="https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c02733497">https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c02733497</a> <a href="https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c02733375">https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c02733375</a>
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	<a href="https://www.hpe.com/us/en/storage/3par.html">https://www.hpe.com/us/en/storage/3par.html</a>
Nimble Storage series	AF20Q, AF20, AF40, AF60, AF80, AFS3, HF20/HF20C, HF20H, HF40/HF40C, HF60/HF60C, ES3	<a href="https://www.hpe.com/us/en/storage/nimble.html">https://www.hpe.com/us/en/storage/nimble.html</a>

## Hitachi Vantara

### Hitachi Vantara - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
Virtual Storage Platform G Series	Hitachi Configuration Manager (HCM) 8.6 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="#">Hitachi plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141443156-141220024-0">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141443156-141220024-0</a> >

### Hitachi Vantara - Family Membership

Device Family	Members	Vendor website
Virtual Storage Platform G series	VSP F1500, VSP G1000, VSP G1500	< <a href="https://www.hitachivantara.com/en-us/products/storage/virtual-storage-platform-g-series.html">https://www.hitachivantara.com/en-us/products/storage/virtual-storage-platform-g-series.html</a> >



# Huawei

## Huawei - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
OceanStor V3 series	V300R006 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	
OceanStor V3 Flash series	V300R006 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	
OceanStor V5 series	V500R007 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	
OceanStor V5 Flash series	V500R007 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	
OceanStor Dorado V3 series	V300R006 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	

## Huawei - Family Membership

Device Family	Members	Vendor website
OceanStor V3 series	OceanStor 2200 V3, OceanStor 2600 V3, OceanStor 2800 V3, OceanStor 5300 V3, OceanStor 5500 V3, OceanStor 5600 V3, OceanStor 5800 V3, OceanStor 6800 V3, OceanStor 18500 V3, OceanStor 18800 V3	<a href="https://e.huawei.com/en/products/cloud-computing-dc/storage">&lt;https://e.huawei.com/en/products/cloud-computing-dc/storage&gt;</a>
OceanStor V3 Flash series	OceanStor 2600F V3, OceanStor 5500F V3, OceanStor 5600F V3, OceanStor 5800F V3, OceanStor 6800F V3, OceanStor 18500F V3, OceanStor 18800F V3	<a href="https://e.huawei.com/en/products/cloud-computing-dc/storage">&lt;https://e.huawei.com/en/products/cloud-computing-dc/storage&gt;</a>
OceanStor V5 series	OceanStor 2800 V5, OceanStor 5300 V5, OceanStor 5500 V5, OceanStor 5500 V5 Elite, OceanStor 5600 V5, OceanStor 5800 V5, OceanStor 6800 V5, OceanStor 18500 V5, OceanStor 18800 V5	<a href="https://e.huawei.com/en/products/cloud-computing-dc/storage">&lt;https://e.huawei.com/en/products/cloud-computing-dc/storage&gt;</a>
OceanStor V5 Flash series	OceanStor 5300F V5, OceanStor 5500F V5, OceanStor 5600F V5, OceanStor 5800F V5, OceanStor 6800F V5, OceanStor 18500F V5, OceanStor 18800F V5	<a href="https://e.huawei.com/en/products/cloud-computing-dc/storage">&lt;https://e.huawei.com/en/products/cloud-computing-dc/storage&gt;</a>
OceanStor Dorado V3 series	OceanStor Dorado5000 V3, OceanStor Dorado6000 V3, OceanStor Dorado18000 V3	<a href="https://e.huawei.com/en/products/cloud-computing-dc/storage">&lt;https://e.huawei.com/en/products/cloud-computing-dc/storage&gt;</a>

## Infinidat

### Infinidat - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
InfiniBox series	InfiniBox 4.0 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141443358-141220024">InfiniBox plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141443358-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141443358-141220024</a> >

### Infinidat - Family Membership

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

## NetApp

### NetApp - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
AFF and FAS series	Data ONTAP 8.3.2 and later	SAN: Fibre Channel, iSCSI	DB2, Oracle, Standard (Linux)	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442868-141220024">NetApp plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442868-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442868-141220024</a> >
AFF and FAS series	Data ONTAP 8.3.2 and later	NAS: NFS	NAS-Data-Protection	<a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442868-141220024">NetApp plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442868-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141442868-141220024</a> >

### NetApp - Family Membership

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

Nutanix

Nutanix - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
Nutanix Files <a href="#">[1]</a>	Nutanix Files 3.6 and later	NAS: NFS	NAS-Data-Protection	<a href="#">Nutanix Files plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v140661552-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v140661552-141220024</a> >

1. For more information, see <<https://www.nutanix.com/products/files>>

## Pure Storage

### Pure Storage - Supported Hardware

Device/Family	Array Management Software	Export Protocols	Supported NetBackup Policy Types	Considerations and Limitations
FlashArray series	Purity OS 5.1 and later	SAN: Fibre Channel	DB2, Oracle, Standard (Linux)	<a href="#">Pure Storage FlashArray plug-in configuration notes</a> < <a href="https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141446877-141220024">https://www.veritas.com/content/support/en_US/doc/140789355-141220024-0/v141446877-141220024</a> >

### 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	< <a href="https://support.purestorage.com/Solutions/Veritas/CloudPoint/How-To%3A_Configuring_FlashArray_with_Veritas_CloudPoint">https://support.purestorage.com/Solutions/Veritas/CloudPoint/How-To%3A_Configuring_FlashArray_with_Veritas_CloudPoint</a> >  < <a href="https://support.purestorage.com/Solutions/Veritas/CloudPoint/How-To%3A_Using_Veritas_CloudPoint_with_FlashArray">https://support.purestorage.com/Solutions/Veritas/CloudPoint/How-To%3A_Using_Veritas_CloudPoint_with_FlashArray</a> >

## Integrated Snapshot Management using CloudPoint

Information on hardware and cloud applications that are compatible with earlier versions of CloudPoint is contained in the following documents:

### Veritas CloudPoint Compatibility Lists for earlier versions

Compatibility List Name	URL
CloudPoint 2.2.1 Hardware Compatibility List (HCL)	< <a href="https://www.veritas.com/support/en_US/doc/CP_221_HCL">https://www.veritas.com/support/en_US/doc/CP_221_HCL</a> >
CloudPoint 2.2.1 Cloud Application Compatibility List	< <a href="https://www.veritas.com/support/en_US/doc/CP_221_APP_CL">https://www.veritas.com/support/en_US/doc/CP_221_APP_CL</a> >
CloudPoint 2.2 Hardware Compatibility List (HCL)	< <a href="https://www.veritas.com/support/en_US/doc/CP_22_HCL">https://www.veritas.com/support/en_US/doc/CP_22_HCL</a> >
CloudPoint 2.2 Cloud Application Compatibility List	< <a href="https://www.veritas.com/support/en_US/doc/CP_22_APP_CL">https://www.veritas.com/support/en_US/doc/CP_22_APP_CL</a> >

# 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](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

<a href="#">Replication Director - Considerations</a>	<a href="#">Replication Director - Supported Platforms for Block-attached Storage</a>	<a href="#">Replication Director - Supported Platforms for NAS-attached Storage</a>
<a href="#">Replication Director - Links to Vendor Sites</a>	<a href="#">Replication Director - Supported Functionality</a>	<a href="#">Replication Director - Vendor Compatibility</a>

## Replication Director - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the <a href="#">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> <a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a> .</p> <ol style="list-style-type: none"><li>1. 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.</li><li>2. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</li><li>3. 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.</li><li>4. 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.</li><li>5. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</li><li>6. CentOS and Oracle Linux are not supported with Replication Director, unless noted otherwise.</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>1. 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.</li><li>2. 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.)</li></ol>
Operating system support dropped	<ol style="list-style-type: none"><li>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</li><li>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</li><li>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</li><li>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</li></ol>

## 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 (8.2 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 8.2 (or later) Client Start of Support	NetBackup 8.2 (or later) Media Server Start of Support	File System/Volume Manager	Multipathing Tools
Red Hat Enterprise Linux 6 on x86-64	8.2	8.2 <a href="#">[1]</a>	VxFS/VxVM ext3/none	
Red Hat Enterprise Linux 7 on x86-64	Not supported	8.2		
Solaris 10 on SPARC	8.2	8.2	VxFS/VxVM UFS/none	VxDMP Solaris MPxIO
SUSE Linux Enterprise Server 11 on x86-64	8.2	8.2	VxFS/VxVM ext3/none	
SUSE Linux Enterprise Server 12 on x86-64	Not supported	8.2		
Windows Server 2008 R2 on x64	8.2	8.2	NTFS/native volume manager	VxDMP Windows MPIO Data ONTAP DSM for Windows MPIO
Windows Server 2016 on x64	Not supported	8.2		

1. Requires Red Hat Enterprise Linux 6 Update 8 or later for media server support.

## 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 (8.2 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 8.2 (or later) Client Start of Support	NetBackup 8.2 (or later) Media Server Start of Support
Red Hat Enterprise Linux 6 on x86-64	8.2	8.2 [1]
Red Hat Enterprise Linux 7 on x86-64	8.2	8.2
Solaris 10 on SPARC	8.2	8.2
Solaris 11 on SPARC	8.2	8.2 [2]
SUSE Linux Enterprise Server 11 on x86-64	8.2	8.2
SUSE Linux Enterprise Server 12 on x86-64	8.2	8.2
Windows Server 2008 R2 on x64	8.2	8.2
Windows Server 2012 on x64	8.2	8.2
Windows Server 2012 R2 on x64	8.2	8.2
Windows Server 2016 on x64	8.2	8.2

1. Requires Red Hat Enterprise Linux 6 Update 8 or later for media server support.

2. Requires Solaris 11.2 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	<a href="https://support.netapp.com/matrix/">&lt;https://support.netapp.com/matrix/&gt;</a>	"Software required to use Replication Director" <a href="https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v88963642-129889735">&lt;https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v88963642-129889735&gt;</a>



# Replication Director - Supported Functionality

The following table lists NetBackup Replication Director functionality and indicates the NetBackup version (8.2 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](https://www.veritas.com/content/support/en_US/doc/59229900-129889735-0/v58079997-129889735)> .

For supported versions of agents, see the ["NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List"](https://www.veritas.com/content/support/en_US/doc/NB_80_DBACL) <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_DBACL](https://www.veritas.com/content/support/en_US/doc/NB_80_DBACL)> . 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](https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE)> .

NetBackup-directed Operations	Abbreviation	NetBackup 8.2 (or later) Start of Support
Array-based Restore	Array-based_Restore	8.2
Snapshot Management for File System	Snapshot_Mgmt_FS	8.2
Snapshot Replication for File System	Snapshot_Repl_FS	8.2
Snapshot Management for Oracle	Snapshot_Mgmt_Oracle	8.2
Snapshot Replication for Oracle	Snapshot_Repl_Oracle	8.2
Snapshot Management for VMware	Snapshot_Mgmt_VMware	8.2
Snapshot Replication for VMware	Snapshot_Repl_VMware	8.2
Snapshot Management for Microsoft Exchange on VMware	Snapshot_Mgmt_VMware_Exchange	8.2
Snapshot Replication for Microsoft Exchange on VMware	Snapshot_Repl_VMware_Exchange	8.2
Snapshot Management for Microsoft SQL Server on VMware	Snapshot_Mgmt_VMware_SQL	8.2
Snapshot Replication for Microsoft SQL Server on VMware	Snapshot_Repl_VMware_SQL	8.2
Snapshot Management for Oracle on NFS Storage	Snapshot_Mgmt_Oracle_NFS	8.2
Snapshot Replication for Oracle on NFS Storage	Snapshot_Repl_Oracle_NFS	8.2
Snapshot Management for VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_NFS	8.2
Snapshot Replication for VMware with NFS Attached Datastores	Snapshot_Repl_VMware_NFS	8.2
Snapshot Management for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_Exchange_NFS	8.2
Snapshot Replication for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_Exchange_NFS	8.2
Snapshot Management for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_SQL_NFS	8.2
Snapshot Replication for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_SQL_NFS	8.2

# Replication Director - Vendor Compatibility

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NetApp

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# 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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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 9.8 ONTAP 9.9 ONTAP 9.10  ActiveIQ Unified Manager 9.8 ActiveIQ Unified Manager 9.9 ActiveIQ Unified Manager 9.10  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FAS Series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a>	Datacenter	No	6, 7	11
FAS Series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a>	Datacenter	Datacenter	6, 7	11

## 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 2008 x64	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a> <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	6, 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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a> <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	6, 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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a> <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	6, 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 2008 x64	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a> <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	6, 7	11, 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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	Enterprise Edition <a href="#">[4]</a> <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	6, 7	11, 12
AFF and FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	ONTAP 9.8 ONTAP 9.9 ONTAP 9.10  ActiveIQ Unified Manager 9.8 ActiveIQ Unified Manager 9.9 ActiveIQ Unified Manager 9.10  <a href="#">See the Replication Director Vendor Links table for more information.</a>	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	No	Datacenter <a href="#">[5]</a>	Datacenter <a href="#">[5]</a>	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. Requires Windows 2008 R2 or later.
5. 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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS	Yes	Yes	11 <a href="#">[4]</a>
FAS Series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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  <a href="#">See the Replication Director Vendor Links table for more information.</a>	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS	Yes	Yes	11 <a href="#">[4]</a>

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. Media Server support for Solaris 11 requires Solaris 11.2 or later.



# Snapshot Client

This section contains Snapshot Client compatibility information for Veritas NetBackup 8.2 - 8.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 "<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">NetBackup 8.0 - 8.x.x Operating System Software Compatibility List</a>" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</li><li>2. 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.</li><li>3. 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.</li><li>4. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</li></ol>
Operating system support dropped	<ol style="list-style-type: none"><li>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</li><li>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</li><li>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</li><li>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</li></ol>

# Snapshot Client - Vendor Compatibility

## Contents

<u>Microsoft Volume Shadow Copy Service (Microsoft VSS)</u>	<u>Array-based Snapshot Methods</u>	<u>Software-based Snapshot Methods</u>
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## 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"><li>- 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.</li><li>- 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.</li><li>- Support includes Local, Alternate Client, FlashBackup-Windows Local, and FlashBackup-Windows Alternate Client snapshot methods.</li><li>- 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.</li><li>- Snapshot roll back (Snapshot Client Instant Recovery) is not supported, use the copy back method instead.</li><li>- Consult with your array vendor on VSS provider availability.</li></ul>

## 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

## VNX

### VNX series family membership

Array Family	Members
VNX series	VNX 5100, VNX 5300, VNX 5500, VNX 5700, VNX 7500

### Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VNX series <a href="#">[1]</a>	Dell EMC VNX SnapView Clone	Dell EMC Navisphere CLI	File System	Local Snapshot Alternate Client	ext3 / none
VNX series <a href="#">[1]</a>	Dell EMC VNX SnapView Clone	Dell EMC Navisphere CLI	DB2 Agent	Local Snapshot	ext3 / none
VNX series <a href="#">[1]</a>	Dell EMC VNX SnapView Clone	Dell EMC Navisphere CLI	File System	Local Snapshot Alternate Client	VxFS / VxVM

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.

## 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

## Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series <a href="#">[1]</a>	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext4 / none
AMS2000 series <a href="#">[1]</a>	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System	FlashBackup Local Snapshot FlashBackup Alternate Client	ext4 / none
AMS2000 series <a href="#">[1]</a>	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	ext4 / none

## Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series <a href="#">[1]</a>	Hitachi_ShadowImage	Hitachi RAID Manager	File System	FlashBackup Local Snapshot FlashBackup Alternate Client	ext4 / none

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.



## VSP Gx00/Fx00 series family membership

Array Family	Members
VSP Gx00/Fx00 series	VSP F400, VSP F600, VSP F800, VSP G200, VSP G400, VSP G600, VSP G800

## Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VSP Gx00/Fx00 series <a href="#">[1]</a>	Hitachi_CopyOnWrite-Hitachi Thin Image <a href="#">[2]</a>	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client	ext4 / none
VSP Gx00/Fx00 series <a href="#">[1]</a>	Hitachi_ShadowImage	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client	ext4 / none

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.
2. Select Hitachi\_CopyOnWrite during NetBackup policy configuration to configure Hitachi Thin Image snapshot type.

## VSP G

### VSP G series family membership

Array Family	Members
VSP G series	VSP F1500, VSP G1000, VSP G1500

### Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VSP G series <a href="#">[1]</a> <a href="#">[2]</a>	Hitachi_CopyOnWrite-Hitachi Thin Image <a href="#">[3]</a>	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Alternate Client	ext4 / none
VSP G series <a href="#">[1]</a> <a href="#">[2]</a>	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Alternate Client	ext4 / none

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.
2. Supported with an EEB from Veritas Support. Contact Support and ask for the EEB associated with Etrack 3879872 for NetBackup 7.7.2, the EEB associated with Etrack 3906984 for NetBackup 7.7.3, or the EEB associated with Etrack 3912564 for NetBackup 8.0.
3. Select Hitachi\_CopyOnWrite during NetBackup policy configuration to configure Hitachi Thin Image snapshot type.

## Hewlett Packard Enterprise

### EVA6400/8400

## 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

## Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
EVA6400/8400 series <a href="#">[1]</a>	HPE EVA Snapclone	HPE Storage System Scripting Utility	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext3 / none
EVA6400/8400 series <a href="#">[1]</a>	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	ext3 / none
EVA6400/8400 series <a href="#">[1]</a>	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	ext3 / none

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.

# SUSE Linux Enterprise Server 11

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	Ext3 / None Raw / None
EVA6400/8400 series	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Ext3 / None Raw / None
EVA6400/8400 series	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Ext3 / None Raw / None

## Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
XP7 <a href="#">[1]</a> <a href="#">[2]</a>	HPE XP BusinessCopy	RAID Manager Library	File System Oracle Agent	Local Snapshot Alternate Client	ext4 / none

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.
2. Supported with an EEB from Veritas Support. Contact Support and ask for the EEB associated with Etrack 3879872 for NetBackup 7.7.2, the EEB associated with Etrack 3906984 for NetBackup 7.7.3, or the EEB associated with Etrack 3912564 for NetBackup 8.0.

## Software-based Snapshot Methods

### Veritas Storage Foundation 6

## Microsoft Windows 2008 x64

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap	Veritas Storage Foundation	File System	Alternate Client Alternate Client with Instant Recovery FlashBackup-Windows Local Snapshot	NTFS / VxVM
FlashSnap	Veritas Storage Foundation	DB2 Agent Oracle Agent SAP Oracle Agent SQL Server Agent	Alternate Client Alternate Client with Instant Recovery	NTFS / VxVM
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery FlashBackup-Windows Local Snapshot	NTFS / VxVM
vxvm	Veritas Storage Foundation	DB2 Agent Oracle Agent SAP Oracle Agent SQL Server Agent	Local Snapshot Local Snapshot with Instant Recovery	NTFS / VxVM

## Red Hat Enterprise Linux 6

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
vxvm <a href="#">[1]</a>	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

1. NetBackup 8.1.2 and later require Red Hat Enterprise Linux 6 Update 8 or later for media server support.

## 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
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

## Oracle Solaris 10 SPARC

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
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/000003214)" <<http://www.veritas.com/docs/000003214>> .



# 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

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

## Cloud Storage - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">NetBackup 8.0 - 8.x.x Operating System Software Compatibility List</a>" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. In the vendor compatibility tables below, the column "NetBackup Version Containing Plug-in" indicates the NetBackup version (8.2 or later) at which that cloud storage solution was first supported.</li><li>2. Cloud support on Windows platforms requires Windows 2008 R2 or later.</li><li>3. 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.</li><li>4. NetBackup supports AWS Outposts. For more information, please refer &lt;<a href="https://www.veritas.com/news-releases/2019-12-03-veritas-tested-and-validated-for-aws-outposts">https://www.veritas.com/news-releases/2019-12-03-veritas-tested-and-validated-for-aws-outposts</a>&gt; .</li></ol>
Configuration considerations	<ol style="list-style-type: none"><li>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 "<a href="https://www.veritas.com/docs/100032993">Cloud Storage Configuration: How To Add a Self-Signed CA Certificate</a>" &lt;<a href="https://www.veritas.com/docs/100032993">https://www.veritas.com/docs/100032993</a>&gt; .</li><li>2. NetBackup-provided Cloud connectors are not supported with IPv6, unless noted otherwise. Configuring these plug-ins with IPv6 may result in unpredictable behavior.</li></ol>

## 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)" <[https://www.veritas.com/content/support/en\\_US/doc/58500769-135186602-0/v121380735-135186602](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>NetBackup CloudCatalyst uses MSDP deduplication technology to upload deduplicated data to the cloud. The data is uploaded by a CloudCatalyst storage server, which first stores data in a local cache before uploading it to cloud storage. A CloudCatalyst storage server is a dedicated host that must be either a NetBackup appliance or a media server configured for NetBackup CloudCatalyst.</p> <p>NetBackup 5240 Appliances (configuration "G" with 192 GB of memory) running 3.1 and later can be configured in a CloudCatalyst Appliance role.</p> <p>NetBackup Media Servers running Red Hat 7 Update 3 or later and NetBackup 8.1 or later can be configured as CloudCatalyst storage servers.</p> <p>A CloudCatalyst storage server can write to only one cloud provider, and only to one cloud bucket.</p> <p>Any platform supported as a NetBackup Client or MSDP Media Server can be a CloudCatalyst source and can write to a CloudCatalyst Appliance or storage server.</p> <p>For more information on configuring CloudCatalyst, see <a href="https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v125437232-136046435">"Configuring deduplication to the cloud with NetBackup CloudCatalyst"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v125437232-136046435">https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v125437232-136046435</a>&gt; .</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 <a href="#">"External Key Management Services using KMIP"</a> 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 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 <a href="#">"Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method"</a> < <a href="https://www.veritas.com/docs/100013288">https://www.veritas.com/docs/100013288</a> > .

## Swift Storage

This method uses the NetBackup OpenStack (Swift) Cloud Connector, a plug-in included with NetBackup. For more information on configuring Swift solutions, see ["About OpenStack Swift cloud storage API type" <https://www.veritas.com/content/support/en\\_US/doc/58500769-135186602-0/v121370025-135186602>](https://www.veritas.com/content/support/en_US/doc/58500769-135186602-0/v121370025-135186602) .

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

### NetBackup Swift Cloud Connector - Supported Functionality

Supported Functionality	Notes
Accelerator (for files and folders)	
Accelerator with VMware-type policies	
CloudCatalyst	NetBackup CloudCatalyst is no longer supported with the Swift Cloud Connector.
Compression	
External Key Management Services (EKMS)	External Key Management Services are not supported with the Swift Cloud Connector.
MSDP Direct Cloud Tiering	NetBackup MSDP Direct Cloud Tiering is not supported with the Swift Cloud Connector.
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 <a href="https://www.veritas.com/docs/100013288">"Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method" &lt;https://www.veritas.com/docs/100013288&gt;</a> .

## 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	

## NetBackup Azure Cloud Connector - Supported Functionality

Supported Functionality	Notes
CloudCatalyst	<p>NetBackup CloudCatalyst uses MSDP deduplication technology to upload deduplicated data to the cloud. The data is uploaded by a CloudCatalyst storage server, which first stores data in a local cache before uploading it to cloud storage. A CloudCatalyst storage server is a dedicated host that must be either a NetBackup appliance or a media server configured for NetBackup CloudCatalyst.</p> <p>NetBackup 5240 Appliances (configuration "G" with 192 GB of memory) running 3.1 and later can be configured in a CloudCatalyst Appliance role.</p> <p>NetBackup Media Servers running Red Hat 7 Update 3 or later and NetBackup 8.1 or later can be configured as CloudCatalyst storage servers.</p> <p>A CloudCatalyst storage server can write to only one cloud provider, and only to one cloud bucket.</p> <p>Any platform supported as a NetBackup Client or MSDP Media Server can be a CloudCatalyst source and can write to a CloudCatalyst Appliance or storage server.</p> <p>For more information on configuring CloudCatalyst, see <a href="https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v125437232-136046435">"Configuring deduplication to the cloud with NetBackup CloudCatalyst"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v125437232-136046435">https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v125437232-136046435</a>&gt; .</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 <a href="#">"External Key Management Services using KMIP"</a> 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 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 <a href="#">"Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method"</a> < <a href="https://www.veritas.com/docs/100013288">https://www.veritas.com/docs/100013288</a> > .

## 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>> .

## 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 either MSDP Direct Cloud Tiering or CloudCatalyst. 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)> .

### Support for Image Sharing using CloudCatalyst

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

For more information on image sharing using CloudCatalyst, see ["About automated disaster recovery in cloud using CloudCatalyst"](#) <[https://www.veritas.com/content/support/en\\_US/doc/25074086-136046435-0/v137745398-136046435](https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v137745398-136046435)> .

## Image Sharing in Cloud - Supported Workloads

Workload	NetBackup Start of Support	Notes
Basic backups of files and folders	8.2	
Bare Metal Restore (BMR)	Not supported	Duplication of images is supported. Restores can be done from another NetBackup media server.
DB2	8.2	
Enterprise Vault	8.2	
Hadoop	8.2	
Hbase	8.2	
Hyper-V	8.2	
Informix	8.2	

## Image Sharing in Cloud - Supported Workloads

Workload	NetBackup Start of Support	Notes
Lotus Notes	8.2	
MariaDB	8.2	
Microsoft Exchange Server	8.2	
Microsoft SharePoint	8.2	
Microsoft SQL Server	8.2	
MySQL	8.2	
NDMP	8.2	
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	8.2	
Postgres	8.2	
RHV	8.2	
SAP	Not supported	Duplication of images is supported. Restores can be done from another NetBackup media server.
Sybase	8.2	
VMware	8.2	

## Cloud Storage - Vendor Compatibility

## Contents

<a href="#"><u>ACP</u></a>	<a href="#"><u>Alibaba</u></a>	<a href="#"><u>Amazon</u></a>
<a href="#"><u>AT&amp;T</u></a>	<a href="#"><u>Beijing XSKY</u></a>	<a href="#"><u>China Mobile</u></a>
<a href="#"><u>China Telecom</u></a>	<a href="#"><u>Chunghwa Telecom</u></a>	<a href="#"><u>Cloudian</u></a>
<a href="#"><u>Datish Systems (OpenDedup)</u></a>	<a href="#"><u>Dell EMC</u></a>	<a href="#"><u>Dell EMC Isilon</u></a>
<a href="#"><u>Deutsche Telekom</u></a>	<a href="#"><u>Fujitsu</u></a>	<a href="#"><u>Google</u></a>
<a href="#"><u>Hewlett Packard Enterprise</u></a>	<a href="#"><u>Hitachi Vantara</u></a>	<a href="#"><u>IBM</u></a>
<a href="#"><u>Infoniga</u></a>	<a href="#"><u>Kingsoft</u></a>	<a href="#"><u>Microsoft</u></a>
<a href="#"><u>NEC</u></a>	<a href="#"><u>NetApp</u></a>	<a href="#"><u>NooBaa</u></a>
<a href="#"><u>Nutanix</u></a>	<a href="#"><u>Oracle</u></a>	<a href="#"><u>Orange Business Services</u></a>
<a href="#"><u>Quantum</u></a>	<a href="#"><u>Red Hat</u></a>	<a href="#"><u>Scality</u></a>
<a href="#"><u>Seagate</u></a>	<a href="#"><u>StorReduce</u></a>	<a href="#"><u>SUSE</u></a>
<a href="#"><u>SwiftStack</u></a>	<a href="#"><u>Telefonica</u></a>	<a href="#"><u>Tencent</u></a>
<a href="#"><u>Veritas</u></a>	<a href="#"><u>Wasabi</u></a>	

## ACP

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
CS3	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.acpcloud.rocks/">http://www.acpcloud.rocks/</a></p>

## ACP

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
CS3	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.acpcloud.rocks/">http://www.acpcloud.rocks/</a></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 8.2 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted</p> <p>Vendor site: <a href="https://www.alibabacloud.com/product/oss/">https://www.alibabacloud.com/product/oss/</a></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 Appliance 3.2 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>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted</p> <p>Vendor site: <a href="https://www.alibabacloud.com/product/oss/">https://www.alibabacloud.com/product/oss/</a></p>

# Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier	NetBackup 8.2 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Jakarta), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Stockholm), 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>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 2.8.8 or later.</p> <p>Support for the Bahrain and Hong Kong regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Cape Town, Milan and Stockholm regions requires Cloud Configuration Package version 2.6.4 or later.</p> <p>Support for the US East (N. Virginia FIPS 140-2), US East (Ohio FIPS 140-2), US West (Northern California FIPS 140-2), and US West (Oregon FIPS 140-2) regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://aws.amazon.com/glacier/">https://aws.amazon.com/glacier/</a></p>

# Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier	NetBackup Appliance 3.2 and later S3 connector	No	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Paris), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>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: <a href="https://aws.amazon.com/glacier/">https://aws.amazon.com/glacier/</a></p>

# Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier Deep Archive	NetBackup 8.2 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Jakarta), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Stockholm), 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>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 2.8.8 or later.</p> <p>Support for the Bahrain and Hong Kong regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Cape Town, Milan and Stockholm regions requires Cloud Configuration Package version 2.6.4 or later.</p> <p>Support for the US East (N. Virginia FIPS 140-2), US East (Ohio FIPS 140-2), US West (Northern California FIPS 140-2), and US West (Oregon FIPS 140-2) regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://aws.amazon.com/s3/storage-classes/">https://aws.amazon.com/s3/storage-classes/</a></p>

# Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Glacier Deep Archive	NetBackup Appliance 3.2 and later S3 connector	No	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Paris), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>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: <a href="https://aws.amazon.com/s3/storage-classes/">https://aws.amazon.com/s3/storage-classes/</a></p>
Glacier Instant Retrieval (IR)	NetBackup 8.3 and later S3 connector	No	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Jakarta), Asia Pacific (Mumbai), Asia Pacific (Osaka), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada (Montreal), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Stockholm), 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Requires Cloud Configuration Package version 2.8.7 or later.</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 2.8.8 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://aws.amazon.com/s3/storage-classes/glacier/instant-retrieval/">https://aws.amazon.com/s3/storage-classes/glacier/instant-retrieval/</a></p>

# Amazon

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
GovCloud - Glacier	NetBackup 8.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></p>
GovCloud - Glacier	NetBackup Appliance 3.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></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 8.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></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 Appliance 3.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></p>
GovCloud - Glacier Instant Retrieval (IR)	NetBackup 8.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="https://aws.amazon.com/s3/storage-classes/glacier/instant-retrieval/">https://aws.amazon.com/s3/storage-classes/glacier/instant-retrieval/</a></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 8.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></p>
GovCloud Simple Storage Service	NetBackup Appliance 3.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></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 8.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></p>
GovCloud Simple Storage Service - Infrequent Access (IA)	NetBackup Appliance 3.2 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>AWS C2S is supported with this solution.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section. 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>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: <a href="http://aws.amazon.com/govcloud-us/">http://aws.amazon.com/govcloud-us/</a></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 8.2 and later S3 connector	Yes	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Jakarta), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Stockholm), 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>Amazon Snowball and Amazon Snowball Edge are supported with the Standard storage class. For details, see the <a href="https://www.veritas.com/content/support/en_US/doc/58500769-139494412-0/v136078530-139494412">Protecting data with Amazon Snowball and Amazon Snowball Edge</a> &lt;https://www.veritas.com/content/support/en_US/doc/58500769-139494412-0/v136078530-139494412&gt; section of the Veritas NetBackup Cloud Administrator's Guide.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</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 2.8.8 or later.</p> <p>Support for the Bahrain and Hong Kong regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Cape Town, Milan and Stockholm regions requires Cloud Configuration Package version 2.6.4 or later.</p> <p>Support for the US East (N. Virginia FIPS 140-2), US East (Ohio FIPS 140-2), US West (Northern California FIPS 140-2), and US West (Oregon FIPS 140-2) regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: &lt;<a href="http://aws.amazon.com/s3">http://aws.amazon.com/s3</a>&gt;</p>
Simple Storage Service (S3) Standard	NetBackup Appliance 3.2 and later S3 connector	Yes	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Paris), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	<p>Amazon Snowball and Amazon Snowball Edge are supported with the Standard storage class. For details, see the <a href="https://www.veritas.com/content/support/en_US/doc/58500769-139494412-0/v136078530-139494412">Protecting data with Amazon Snowball and Amazon Snowball Edge</a> &lt;https://www.veritas.com/content/support/en_US/doc/58500769-139494412-0/v136078530-139494412&gt; section of the Veritas NetBackup Cloud Administrator's Guide.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</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: &lt;<a href="http://aws.amazon.com/s3">http://aws.amazon.com/s3</a>&gt;</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 - Infrequent Access (IA)	NetBackup 8.2 and later S3 connector	Yes	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Jakarta), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Stockholm), 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</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 2.8.8 or later.</p> <p>Support for the Bahrain and Hong Kong regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Cape Town, Milan and Stockholm regions requires Cloud Configuration Package version 2.6.4 or later.</p> <p>Support for the US East (N. Virginia FIPS 140-2), US East (Ohio FIPS 140-2), US West (Northern California FIPS 140-2), and US West (Oregon FIPS 140-2) regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="http://aws.amazon.com/s3">http://aws.amazon.com/s3</a></p>
Simple Storage Service (S3) Standard - Infrequent Access (IA)	NetBackup Appliance 3.2 and later S3 connector	Yes	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Paris), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</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: <a href="http://aws.amazon.com/s3">http://aws.amazon.com/s3</a></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 8.2 and later S3 connector	Yes	Africa (Cape Town), Asia Pacific (Hong Kong), Asia Pacific (Jakarta), Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Milan), Europe (Paris), Europe (Stockholm), 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</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 2.8.8 or later.</p> <p>Support for the Bahrain and Hong Kong regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Cape Town, Milan and Stockholm regions requires Cloud Configuration Package version 2.6.4 or later.</p> <p>Support for the US East (N. Virginia FIPS 140-2), US East (Ohio FIPS 140-2), US West (Northern California FIPS 140-2), and US West (Oregon FIPS 140-2) regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="http://aws.amazon.com/s3">http://aws.amazon.com/s3</a></p>
Simple Storage Service (S3) Standard - One Zone-Infrequent Access Storage	NetBackup Appliance 3.2 and later S3 connector	Yes	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), China (Ningxia), Europe (Frankfurt), Europe (Ireland), Europe (London), Europe (Paris), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, S3 replication is not supported.</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: <a href="http://aws.amazon.com/s3">http://aws.amazon.com/s3</a></p>

# AT&T

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="http://www.att.com/cloud">&lt;http://www.att.com/cloud&gt;</a></p>
Cloud Storage	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="http://www.att.com/cloud">&lt;http://www.att.com/cloud&gt;</a></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 8.3 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.8.2 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.xsky.com/en/">https://www.xsky.com/en/</a></p>

## China Mobile

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
CMCC Cloud Storage	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://ecloud.10086.cn/">https://ecloud.10086.cn/</a></p>

## China Mobile

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
CMCC Cloud Storage	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://ecloud.10086.cn/">&lt;https://ecloud.10086.cn/&gt;</a></p>

## China Telecom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
OOS	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="http://www.ctyun.cn/">&lt;http://www.ctyun.cn/&gt;</a></p>



## China Telecom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
OOS	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="http://www.ctyun.cn/">http://www.ctyun.cn/</a></p>

## Chunghwa Telecom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Hicloud S3	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://hicloud.hinet.net/">http://hicloud.hinet.net/</a></p>

## Chunghwa Telecom

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Hicloud S3	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://hicloud.hinet.net/">http://hicloud.hinet.net/</a></p>

## Cloudian

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HyperStore Object Storage	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.cloudian.com/">http://www.cloudian.com/</a></p>

## Cloudian

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HyperStore Object Storage	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.cloudian.com/">http://www.cloudian.com/</a></p>

## Datish Systems (OpenDedup)

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
OpenDedup	OpenDedup 2.0 Plug-in	No	On-Premises	<p>CloudCatalyst: No</p> <p>NetBackup Accelerator (for files and folders): Yes</p> <p>NetBackup Accelerator with VMware: Yes</p> <p>NetBackup Encryption Key Management Service: Yes</p> <p>Supported with Amazon AWS S3 and Microsoft Azure.</p> <p>Vendor site: <a href="http://www.opendedup.org">http://www.opendedup.org</a></p>

## Datish Systems (OpenDedup)

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
OpenDedup	OpenDedup 2.2 Plug-in	No	On-Premises	<p>CloudCatalyst: No</p> <p>NetBackup Accelerator (for files and folders): Yes</p> <p>NetBackup Accelerator with VMware: Yes</p> <p>NetBackup Encryption Key Management Service: Yes</p> <p>Supported with Amazon AWS S3 and Microsoft Azure.</p> <p>Targeted Auto Image Replication: Yes</p> <p>Vendor site: <a href="http://www.opendedup.org">http://www.opendedup.org</a></p> <p><a href="#">Whole&gt;</a> Image Optimized Duplication: Yes</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 8.2 and later S3 connector	No	All Locales, On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>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: <a href="http://www.emc.com/storage/ecs/index.htm">http://www.emc.com/storage/ecs/index.htm</a></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 Appliance 3.2 and later S3 connector	No	All Locales, On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>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: <a href="http://www.emc.com/storage/ecs/index.htm">http://www.emc.com/storage/ecs/index.htm</a></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 8.3 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Requires Cloud Configuration Package version 2.8.1 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.delltechnologies.com/en-us/storage/powerscale.htm">https://www.delltechnologies.com/en-us/storage/powerscale.htm</a></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 8.2 and later S3 connector	No	EU (Germany)	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://cloud.telekom.de/en/">&lt;https://cloud.telekom.de/en/&gt;</a></p>
Open Telekom Cloud	NetBackup Appliance 3.2 and later S3 connector	No	EU (Germany)	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://cloud.telekom.de/en/">&lt;https://cloud.telekom.de/en/&gt;</a></p>

# Fujitsu

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
ETERNUS CD10000	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.fujitsu.com/global/products/computing/storage/eternus-cd/">http://www.fujitsu.com/global/products/computing/storage/eternus-cd/</a></p>
ETERNUS CD10000	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.fujitsu.com/global/products/computing/storage/eternus-cd/">http://www.fujitsu.com/global/products/computing/storage/eternus-cd/</a></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 8.2 and later S3 connector	No	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/about/locations/">https://cloud.google.com/about/locations/</a></p>
Cloud Storage - Multi-Regional	NetBackup Appliance 3.2 and later S3 connector	No	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/about/locations/">https://cloud.google.com/about/locations/</a></p>



# Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage - Regional	NetBackup 8.2 and later S3 connector	No	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-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-East2, Asia-Northeast2, and EU-West6 regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Asia-Northeast3, Asia-Southeast2, and EU-Central2 regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the Asia-South1, Asia-Northeast1, EU-North1, EU-West4, NorthAmerica-Northeast1, SouthAmerica-East1, and US-West2 regions requires Cloud Configuration Package version 2.6.1 or later.</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.8.8 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>Support for the US-West3 (Salt Lake City) and US-West4 (Las Vegas) regions requires Cloud Configuration Package version 2.7.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/about/locations/">https://cloud.google.com/about/locations/</a></p>

# Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage - Regional	NetBackup Appliance 3.2 and later S3 connector	No	Asia-East1, Asia-Southeast1, Australia-Southeast1, EU-West1, EU-West2, EU-West3, US-Central1, US-East1, US-East4, US-West1	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/about/locations/">https://cloud.google.com/about/locations/</a></p>
Cloud Storage Archive	NetBackup 8.3 and later S3 connector	No	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-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-Northeast3, Asia-Southeast2, and EU-Central2 regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.8.8 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: <a href="https://cloud.google.com/storage/archival">https://cloud.google.com/storage/archival</a></p>

# Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Coldline	NetBackup 8.2 and later S3 connector	No	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-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-East2, Asia-Northeast2, and EU-West6 regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Asia-Northeast3, Asia-Southeast2, and EU-Central2 regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the Asia-South1, Asia-Northeast1, EU-North1, EU-West4, NorthAmerica-Northeast1, SouthAmerica-East1, and US-West2 regions requires Cloud Configuration Package version 2.6.1 or later.</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.8.8 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>Support for the US-West3 (Salt Lake City) and US-West4 (Las Vegas) regions requires Cloud Configuration Package version 2.7.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/storage/archival">https://cloud.google.com/storage/archival</a></p>

# Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Coldline	NetBackup Appliance 3.2 and later S3 connector	No	Asia (Multi-Regional), Asia-East1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/storage/archival">https://cloud.google.com/storage/archival</a></p>

# Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Nearline	NetBackup 8.2 and later S3 connector	No	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-West2, EU-West3, EU-West4, EU-West6, EU-West8, EU-West9, 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>Support for the Asia-East2, Asia-Northeast2, and EU-West6 regions requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Support for the Asia-Northeast3, Asia-Southeast2, and EU-Central2 regions requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the Asia-South1, Asia-Northeast1, EU-North1, EU-West4, NorthAmerica-Northeast1, SouthAmerica-East1, and US-West2 regions requires Cloud Configuration Package version 2.6.1 or later.</p> <p>Support for the Asia-South2, Australia-Southeast2, and NorthAmerica-Northeast2 regions requires Cloud Configuration Package version 2.8.8 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>Support for the US-West3 (Salt Lake City) and US-West4 (Las Vegas) regions requires Cloud Configuration Package version 2.7.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/storage-nearline/">&lt;https://cloud.google.com/storage-nearline/&gt;</a></p>

# Google

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Storage Nearline	NetBackup Appliance 3.2 and later S3 connector	No	Asia (Multi-Regional), Asia-East1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://cloud.google.com/storage-nearline/">https://cloud.google.com/storage-nearline/</a></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>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>Vendor site: &lt;<a href="https://cloudvolumes.hpe.com/welcome/">https://cloudvolumes.hpe.com/welcome/</a></p> <p><a href="#">Whole&gt;</a> 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 8.2 and later S3 connector	Yes	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="https://www.hitachivantara.com/en-us/products/cloud-object-platform/content-platform.html">https://www.hitachivantara.com/en-us/products/cloud-object-platform/content-platform.html</a></p>
Content Platform (HCP)	NetBackup Appliance 3.2 and later S3 connector	Yes	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="https://www.hitachivantara.com/en-us/products/cloud-object-platform/content-platform.html">https://www.hitachivantara.com/en-us/products/cloud-object-platform/content-platform.html</a></p>



# Hitachi Vantara

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HCP for Cloud Scale	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.6.3 or later.</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: <a href="https://www.hitachivantara.com/en-us/products/storage/object-storage/content-platform.html">https://www.hitachivantara.com/en-us/products/storage/object-storage/content-platform.html</a></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 8.2 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, AUS Melbourne, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, Singapore, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Amsterdam, Chennai, EU Germany, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, and Singapore locales requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the AP Australia and AP Tokyo locales requires Cloud Configuration Package version 2.8.2 or later.</p> <p>Support for the AP Osaka locale requires Cloud Configuration Package version 2.8.3 or later.</p> <p>The AUS Melbourne locale has been decommissioned and is not included in Cloud Configuration Package version 2.8.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>
Cloud Object Storage - Cold Vault	NetBackup Appliance 3.2 and later S3 connector	No	AP Cross Region, AUS Melbourne, CAN Toronto, EU Cross Region, EU United Kingdom, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>

# IBM

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage - Private	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>
Cloud Object Storage - Private	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></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 8.2 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, AUS Melbourne, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, Singapore, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Amsterdam, Chennai, EU Germany, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, and Singapore locales requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the AP Australia and AP Tokyo locales requires Cloud Configuration Package version 2.8.2 or later.</p> <p>Support for the AP Osaka locale requires Cloud Configuration Package version 2.8.3 or later.</p> <p>The AUS Melbourne locale has been decommissioned and is not included in Cloud Configuration Package version 2.8.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>
Cloud Object Storage - Smart Tier	NetBackup Appliance 3.2 and later S3 connector	No	AP Cross Region, AUS Melbourne, CAN Toronto, EU Cross Region, EU United Kingdom, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>

# IBM

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud Object Storage - Standard	NetBackup 8.2 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, AUS Melbourne, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, Singapore, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Amsterdam, Chennai, EU Germany, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, and Singapore locales requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the AP Australia and AP Tokyo locales requires Cloud Configuration Package version 2.8.2 or later.</p> <p>Support for the AP Osaka locale requires Cloud Configuration Package version 2.8.3 or later.</p> <p>The AUS Melbourne locale has been decommissioned and is not included in Cloud Configuration Package version 2.8.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>
Cloud Object Storage - Standard	NetBackup Appliance 3.2 and later S3 connector	No	AP Cross Region, AUS Melbourne, CAN Toronto, EU Cross Region, EU United Kingdom, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></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 8.2 and later S3 connector	No	Amsterdam, AP Australia, AP Cross Region, AP Osaka, AP Tokyo, AUS Melbourne, CAN Toronto, Chennai, EU Cross Region, EU Germany, EU United Kingdom, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, Singapore, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>Support for the Amsterdam, Chennai, EU Germany, Hong Kong, Mexico City, Milan, Montreal, Oslo, Paris, San Jose, Sao Paulo, Seoul, and Singapore locales requires Cloud Configuration Package version 2.8.4 or later.</p> <p>Support for the AP Australia and AP Tokyo locales requires Cloud Configuration Package version 2.8.2 or later.</p> <p>Support for the AP Osaka locale requires Cloud Configuration Package version 2.8.3 or later.</p> <p>The AUS Melbourne locale has been decommissioned and is not included in Cloud Configuration Package version 2.8.2 or later.</p> <p>URL style: Virtual Hosted (default), Path</p> <p>Vendor site: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>
Cloud Object Storage - Vault	NetBackup Appliance 3.2 and later S3 connector	No	AP Cross Region, AUS Melbourne, CAN Toronto, EU Cross Region, EU United Kingdom, US Cross Region, US East, US South	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/">https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/</a></p>

# Infoniqa

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
SWISS3CLOUD	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.infoniqa.ch/cloud-services/swiss3cloud/">https://www.infoniqa.ch/cloud-services/swiss3cloud/</a></p>
SWISS3CLOUD	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.infoniqa.ch/cloud-services/swiss3cloud/">https://www.infoniqa.ch/cloud-services/swiss3cloud/</a></p>

# Kingsoft

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Standard Storage Service (KS3) - Standard	NetBackup 8.2 and later S3 connector	No	Beijing, Hong Kong, Shanghai	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.ksyun.com/post/product/KS3">https://www.ksyun.com/post/product/KS3</a></p>
Standard Storage Service (KS3) - Standard	NetBackup Appliance 3.2 and later S3 connector	No	Beijing, Hong Kong, Shanghai	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.ksyun.com/post/product/KS3">https://www.ksyun.com/post/product/KS3</a></p>
Standard Storage Service (KS3) - Standard IA	NetBackup 8.2 and later S3 connector	No	Beijing, Hong Kong, Shanghai	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.ksyun.com/post/product/KS3">https://www.ksyun.com/post/product/KS3</a></p>



## Kingsoft

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Standard Storage Service (KS3) - Standard IA	NetBackup Appliance 3.2 and later S3 connector	No	Beijing, Hong Kong, Shanghai	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.ksyun.com/post/product/KS3">https://www.ksyun.com/post/product/KS3</a></p>

## Microsoft

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Azure	NetBackup 8.2 and later Azure connector	No	All Locales	<p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup Azure Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes. GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <a href="https://docs.microsoft.com/en-us/azure/storage/">https://docs.microsoft.com/en-us/azure/storage/</a></p>
Azure	NetBackup Appliance 3.2 and later Azure connector	No	All Locales	<p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup Azure Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes. GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <a href="https://docs.microsoft.com/en-us/azure/storage/">https://docs.microsoft.com/en-us/azure/storage/</a></p>

# Microsoft

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Azure Germany	NetBackup 8.2 and later Azure connector	No	All Locales	<p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup Azure Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes. GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <a href="https://docs.microsoft.com/en-gb/azure/germany/">https://docs.microsoft.com/en-gb/azure/germany/</a></p>
Azure Germany	NetBackup Appliance 3.2 and later Azure connector	No	All Locales	<p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup Azure Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes. GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <a href="https://docs.microsoft.com/en-gb/azure/germany/">https://docs.microsoft.com/en-gb/azure/germany/</a></p>
Azure Government	NetBackup 8.2 and later Azure connector	No	All US Gov Locales	<p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup Azure Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes, GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <a href="https://azure.microsoft.com/en-us/overview/clouds/government/">https://azure.microsoft.com/en-us/overview/clouds/government/</a></p>
Azure Government	NetBackup Appliance 3.2 and later Azure connector	No	All US Gov Locales	<p>Azure Blob storage with hot and cool tiers is supported.</p> <p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup Azure Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes. GRS and GZRS is not supported.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Vendor site: <a href="https://azure.microsoft.com/en-us/overview/clouds/government/">https://azure.microsoft.com/en-us/overview/clouds/government/</a></p>

# NEC

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Cloud IaaS	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://jpn.nec.com/cloud/service/platform_service/iaas.html">&lt;http://jpn.nec.com/cloud/service/platform_service/iaas.html&gt;</a></p>
Cloud IaaS	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://jpn.nec.com/cloud/service/platform_service/iaas.html">&lt;http://jpn.nec.com/cloud/service/platform_service/iaas.html&gt;</a></p>
Cloud IaaS Object Storage N2	NetBackup 8.3 and later S3 connector	No	Kobe	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>Creating a disk volume via the 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>Requires Cloud Configuration Package version 2.10.6 or later.</p> <p>MSDP Direct Cloud Tiering: No</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path, Virtual Hosted</p> <p>Authentication Signature: Version 2</p> <p>Vendor site: <a href="http://jpn.nec.com/cloud/service/platform_service/iaas.html">&lt;http://jpn.nec.com/cloud/service/platform_service/iaas.html&gt;</a></p>

# NEC

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.necam.com/HYDRAsor/">&lt;http://www.necam.com/HYDRAsor/&gt;</a></p>
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.necam.com/HYDRAsor/">&lt;http://www.necam.com/HYDRAsor/&gt;</a></p>
HYDRAsor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen)	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.necam.com/HYDRAsor/">&lt;http://www.necam.com/HYDRAsor/&gt;</a></p>

## NEC

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
HYDRAsor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen)	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.necam.com/HYDRAsor/">http://www.necam.com/HYDRAsor/</a></p>

## NetApp

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
AltaVault	NetApp 1.2 Plug-in	No	On-Premises	<p>CloudCatalyst: No</p> <p>For AltaVault with Amazon Glacier, the AWS S3 lifecycle policy is utilized to move backup images to Glacier. Use the AltaVault Prepopulation process to retrieve images prior to starting NetBackup restore.</p> <p>NetBackup supports AltaVault sending backup images to any public or private cloud provider supported by AltaVault. See NetApp's list of cloud providers supported with AltaVault. Only one cloud provider can be configured per AltaVault physical appliance or virtual instance.</p> <p>Optimized Duplication: Yes</p> <p>Vendor site: <a href="http://www.netapp.com/us/products/protection-software/altavault/">http://www.netapp.com/us/products/protection-software/altavault/</a></p>

# NetApp

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
StorageGRID Webscale Object Storage	NetBackup 8.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx">http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx</a></p>
StorageGRID Webscale Object Storage	NetBackup Appliance 3.2 and later S3 connector	No	All Locales	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx">http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx</a></p>

# NooBaa

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
NooBaa	NetBackup 8.2 and later S3 connector	No	All Locales, On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.noobaa.com/">http://www.noobaa.com/</a></p>
NooBaa	NetBackup Appliance 3.2 and later S3 connector	No	All Locales, On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://www.noobaa.com/">http://www.noobaa.com/</a></p>

## Nutanix

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Objects	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.6.1 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.nutanix.com/products/objects/">https://www.nutanix.com/products/objects/</a></p>

## Oracle

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Oracle Cloud Infrastructure	NetBackup 8.2 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="https://cloud.oracle.com/en_US/infrastructure/storage">https://cloud.oracle.com/en_US/infrastructure/storage</a></p>



## Oracle

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Oracle Cloud Infrastructure	NetBackup Appliance 3.2 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>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="https://cloud.oracle.com/en_US/infrastructure/storage">https://cloud.oracle.com/en_US/infrastructure/storage</a></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 8.2 and later S3 connector	No	EU West 0, EU West 1, NA East 0	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.6.2 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://cloud.orange-business.com/en/flexible-engine/">https://cloud.orange-business.com/en/flexible-engine/</a></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 8.3 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.8.8 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: <a href="https://www.quantum.com/en/products/object-storage">https://www.quantum.com/en/products/object-storage</a></p>
Active Archive and ActiveScale Systems - Standard	NetBackup 8.3 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.8.8 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: <a href="https://www.quantum.com/en/products/object-storage">https://www.quantum.com/en/products/object-storage</a></p>

# Quantum

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Lattus Object Storage	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): No</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: &lt;<a href="http://www.quantum.com/products/bigdatamanagement/lattus/index.aspx">http://www.quantum.com/products/bigdatamanagement/lattus/index.aspx</a>&gt;</p>
Lattus Object Storage	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): No</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: &lt;<a href="http://www.quantum.com/products/bigdatamanagement/lattus/index.aspx">http://www.quantum.com/products/bigdatamanagement/lattus/index.aspx</a>&gt;</p>

# Red Hat

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Ceph Storage	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.redhat.com/en/technologies/storage/ceph">https://www.redhat.com/en/technologies/storage/ceph</a></p>
Ceph Storage	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.redhat.com/en/technologies/storage/ceph">https://www.redhat.com/en/technologies/storage/ceph</a></p>

# Scality

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
RING Storage	NetBackup 8.2 and later S3 connector	No	All Locales, On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.scality.com/">http://www.scality.com/</a></p>
RING Storage	NetBackup Appliance 3.2 and later S3 connector	No	All Locales, On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</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: <a href="http://www.scality.com/">http://www.scality.com/</a></p>

## Seagate

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Lyve Cloud	NetBackup 8.3 and later S3 connector	No	us-east-1	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.8.3 or later.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.seagate.com/services/cloud/storage/">https://www.seagate.com/services/cloud/storage/</a></p>

## StorReduce

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Deduplicate Cloud Storage	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: No</p> <p>MSDP Direct Cloud Tiering: No</p> <p>On August 21st, 2018, Pure Storage acquired StorReduce. Future product offerings will be listed in a Pure Storage table in this section.</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="http://storreduce.com/">http://storreduce.com/</a></p>

# SUSE

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
SUSE Enterprise Storage	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.suse.com/products/suse-enterprise-storage/">https://www.suse.com/products/suse-enterprise-storage/</a></p>
SUSE Enterprise Storage	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: Yes. Supports AES256.</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.suse.com/products/suse-enterprise-storage/">https://www.suse.com/products/suse-enterprise-storage/</a></p>

# SwiftStack

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Object Storage	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.swiftstack.com">https://www.swiftstack.com</a></p>
Object Storage	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</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>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.swiftstack.com">https://www.swiftstack.com</a></p>



# Telefonica

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Open Cloud	NetBackup 8.2 and later S3 connector	No	NA Mexico, NA USA, SA Argentina, SA Brazil, SA Chile, SA Peru	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.cloud.telefonica.com/en/open-cloud/">https://www.cloud.telefonica.com/en/open-cloud/</a></p>
Open Cloud	NetBackup Appliance 3.2 and later S3 connector	No	NA Mexico, NA USA, SA Argentina, SA Brazil, SA Chile, SA Peru	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Secure Socket Layer (SSL): Yes</p> <p>Server-side encryption: No</p> <p>URL style: Path</p> <p>Vendor site: <a href="https://www.cloud.telefonica.com/en/open-cloud/">https://www.cloud.telefonica.com/en/open-cloud/</a></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 8.3 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.7.3 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: <a href="https://intl.cloud.tencent.com/">https://intl.cloud.tencent.com/</a></p>
Cloud Object Storage (COS) - DEEP ARCHIVE	NetBackup 8.3 and later S3 connector	No	ap-beijing, ap-chengdu, ap-guangzhou, ap-shanghai	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.7.3 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: <a href="https://intl.cloud.tencent.com/">https://intl.cloud.tencent.com/</a></p>
Cloud Object Storage (COS) - Standard	NetBackup 8.3 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.7.3 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: <a href="https://intl.cloud.tencent.com/">https://intl.cloud.tencent.com/</a></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 IA	NetBackup 8.3 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>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.7.3 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: <a href="https://intl.cloud.tencent.com/">https://intl.cloud.tencent.com/</a></p>

## Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Veritas Access	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.veritas.com/product/software-defined-storage/access">https://www.veritas.com/product/software-defined-storage/access</a></p>

# Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Veritas Access	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.veritas.com/product/software-defined-storage/access">https://www.veritas.com/product/software-defined-storage/access</a></p>
Veritas Access	OpenDedup 2.0 Plug-in	No	On-Premises	<p>CloudCatalyst: No</p> <p>NetBackup Accelerator (for files and folders): Yes</p> <p>NetBackup Accelerator with VMware: Yes</p> <p>NetBackup Encryption Key Management Service: Yes</p> <p>The Datish Systems OpenDedup plug-in is available from the vendor's website. Use the link <a href="#">in this table</a> .</p> <p>Vendor site: <a href="https://www.veritas.com/product/software-defined-storage/access">https://www.veritas.com/product/software-defined-storage/access</a></p>
Veritas Access	OpenDedup 2.2 Plug-in	No	On-Premises	<p>CloudCatalyst: No</p> <p>NetBackup Accelerator (for files and folders): Yes</p> <p>NetBackup Accelerator with VMware: Yes</p> <p>NetBackup Encryption Key Management Service: Yes</p> <p>Targeted Auto Image Replication: Yes</p> <p>The Datish Systems OpenDedup plug-in is available from the vendor's website. Use the link <a href="#">in this table</a> .</p> <p>Vendor site: <a href="https://www.veritas.com/product/software-defined-storage/access">https://www.veritas.com/product/software-defined-storage/access</a></p> <p><a href="#">Whole</a>&gt; Image Optimized Duplication: Yes</p>

# Veritas

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Veritas Access 3340 Appliance	NetBackup 8.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Storage Servers have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.veritas.com/product/software-defined-storage/access-appliance">https://www.veritas.com/product/software-defined-storage/access-appliance</a></p>
Veritas Access 3340 Appliance	NetBackup Appliance 3.2 and later S3 connector	No	On-Premises	<p>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: 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: <a href="https://www.veritas.com/product/software-defined-storage/access-appliance">https://www.veritas.com/product/software-defined-storage/access-appliance</a></p>

# Wasabi

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	IPv6	Locales / Regions	Notes
Hot Cloud Storage	NetBackup 8.3 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>CloudCatalyst: Yes. CloudCatalyst Appliances have specific requirements. For details, see the <a href="#">NetBackup S3 Cloud Connector - Supported Functionality</a> section.</p> <p>MSDP Direct Cloud Tiering: Yes</p> <p>Requires Cloud Configuration Package version 2.8.5 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 2.8.8 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: <a href="https://wasabi.com/">https://wasabi.com/</a></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, with Linux/Windows operating systems, and with UNIX 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.

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## OST Storage Servers - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">NetBackup 8.0 - 8.x.x Operating System Software Compatibility List</a>" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. 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).</li><li>2. 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.</li><li>3. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</li><li>4. 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.</li><li>5. 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.</li><li>6. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</li><li>7. CentOS and Oracle Linux are not supported with OpenStorage, unless noted otherwise.</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>1. 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.</li><li>2. 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.</li><li>3. 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.</li><li>4. 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.)</li></ol>

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><b>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.</b></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>
Operating system support dropped	<p><b>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</b></p> <p><b>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</b></p> <p><b>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</b></p> <p><b>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</b></p> <p><b>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</b></p> <p><b>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</b></p>

## OST Storage Servers - Supported Functionality

The following table lists NetBackup OpenStorage functionality and indicates the NetBackup 8.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](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	8.0 GA	<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, running NetBackup 7.5.0.7 or later on the client is strongly recommended. For more information, see <a href="http://www.veritas.com/docs/100015771">"Accelerator enabled backups of Windows hard linked files to OpenStorage disk storage may cause bptm to crash"</a> &lt;<a href="http://www.veritas.com/docs/100015771">http://www.veritas.com/docs/100015771</a>&gt; .</p> <p>Accelerator is not supported with spanned Logical Storage Units (LSU).</p>
Accelerator with NDMP	Accel_NDMP	8.0 GA	<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 <a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692">"About NetBackup Accelerator for NDMP"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692">https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/v99897177-131831692</a>&gt; .</p> <p>Accelerator with NDMP is not supported with spanned LSUs.</p>



OpenStorage Functionality	Abbreviation	NetBackup Start of Support	Notes
Accelerator with Hyper-V-type policies	Accel_Hyper-V	8.0 GA	<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 "<a href="https://www.veritas.com/support/en_US/doc/21357025-130334382-0/index">Veritas NetBackup for Hyper-V Administrator's Guide</a>" <a href="https://www.veritas.com/support/en_US/doc/21357025-130334382-0/index">&lt;https://www.veritas.com/support/en_US/doc/21357025-130334382-0/index&gt;</a> .</p>
Accelerator with VMware-type policies	Accel_VMware	8.0 GA	<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 "<a href="https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index">Veritas NetBackup for VMware Administrator's Guide</a>" <a href="https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index">&lt;https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index&gt;</a> .</p>
Auto Image Replication	A.I.R.	8.0 GA	<p>For more information on configuring Auto Image Replication, see "<a href="https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v47608990-136046435">About the storage lifecycle policies required for Auto Image Replication</a>" <a href="https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v47608990-136046435">&lt;https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v47608990-136046435&gt;</a> .</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><b>Only one media server should be configured to each target Logical Storage Unit (LSU).</b></p> <p><b>Each source and target storage server should have its credentials configured in only one NetBackup domain.</b></p>
Targeted Auto Image Replication	Targeted_A.I.R.	8.0 GA	<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><b>Only one media server should be configured to each target Logical Storage Unit (LSU).</b></p> <p><b>Each source and target storage server should have its credentials configured in only one NetBackup domain.</b></p> <p>When support for Targeted A.I.R. is shown in the tables below, all replication topologies are supported, unless noted otherwise.</p>

OpenStorage Functionality	Abbreviation	NetBackup Start of Support	Notes
Direct Copy to dedicated tape drives	Direct_Copy	8.0 GA	
Direct Copy to shared tape drives	Direct_Copy_Shared	8.0 GA	
Granular Recovery Technology	Granular_Recovery	8.0 GA	Support for the Veritas NetBackup OpenStorage Granular Recovery Technology feature is described in " <a href="http://www.veritas.com/docs/100003245">Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE)</a> " < <a href="http://www.veritas.com/docs/100003245">http://www.veritas.com/docs/100003245</a> > and " <a href="http://www.veritas.com/docs/100027093">Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions</a> " < <a href="http://www.veritas.com/docs/100027093">http://www.veritas.com/docs/100027093</a> > .
Granular Recovery Technology with VMware-type policies	GRT_VMware	8.0 GA	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 " <a href="http://www.veritas.com/docs/100003245">Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE)</a> " < <a href="http://www.veritas.com/docs/100003245">http://www.veritas.com/docs/100003245</a> > and " <a href="http://www.veritas.com/docs/100027093">Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions</a> " < <a href="http://www.veritas.com/docs/100027093">http://www.veritas.com/docs/100027093</a> > .
Immutable Data / WORM	WORM	8.3.0.1	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	8.0 GA	Support for restoring virtual machines with Instant Recovery is described in the " <a href="https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index">Veritas NetBackup for VMware Administrator's Guide</a> " < <a href="https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index">https://www.veritas.com/content/support/en_US/doc/21902280-136588229-0/index</a> > . For details on supported platforms for instant recovery restore hosts, see " <a href="https://www.veritas.com/content/support/en_US/doc/NB_70_80_VE">Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments</a> " < <a href="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</a> > .
NetBackup Encryption Key Management Service	KMS	8.0 GA	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	8.0 GA	Optimized Duplication transfers data in 256 KB chunks.
Optimized Duplication (Whole Image Copy)	WI_Opt_Dup	8.0 GA	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	8.0 GA	Storage Lifecycle Policies are not supported in policies that use the multiple copy synthetic backups method. For details, see " <a href="http://www.veritas.com/docs/100013288">Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method</a> " < <a href="http://www.veritas.com/docs/100013288">http://www.veritas.com/docs/100013288</a> > .

## 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
Cleversafe	< <a href="http://www.cleversafe.com/">http://www.cleversafe.com/</a> >
Data Domain	< <a href="http://www.datadomain.com/products/">http://www.datadomain.com/products/</a> >
Dell EMC	< <a href="http://www.dell.com/">http://www.dell.com/</a> >
ExaGrid	< <a href="https://www.exagrid.com/exagrid-products/supported-data-backup-applications/veritas-netbackup/">https://www.exagrid.com/exagrid-products/supported-data-backup-applications/veritas-netbackup/</a> >
FalconStor	< <a href="http://www.falconstor.com/en/pages/?pn=VTL">http://www.falconstor.com/en/pages/?pn=VTL</a> >
Fujitsu	< <a href="http://www.fujitsu.com/global/">http://www.fujitsu.com/global/</a> >
Hewlett Packard Enterprise	< <a href="https://www.hpe.com/us/en/storage/storeonce.html">https://www.hpe.com/us/en/storage/storeonce.html</a> >

Vendor	URL
Hitachi Vantara	< <a href="https://www.hitachivantara.com/en-us/home.html">https://www.hitachivantara.com/en-us/home.html</a> >
H3C	< <a href="http://www.h3c.com/en/OurBusiness/Products/Storage/">http://www.h3c.com/en/OurBusiness/Products/Storage/</a> >
IBM	< <a href="http://www.ibm.com/">http://www.ibm.com/</a> >
Infinidat	< <a href="http://www.infinidat.com/">http://www.infinidat.com/</a> >
NEC	< <a href="http://www.necam.com/HYDRAstor/">http://www.necam.com/HYDRAstor/</a> >
NetApp	< <a href="http://www.netapp.com/us/products/protection-software/altavault/">http://www.netapp.com/us/products/protection-software/altavault/</a> >
Oracle	< <a href="http://www.oracle.com/technetwork/server-storage/sun-unified-storage/downloads/zfssa-plugins-1489830.html">http://www.oracle.com/technetwork/server-storage/sun-unified-storage/downloads/zfssa-plugins-1489830.html</a> >
Quantum	< <a href="http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugIn/Index.aspx">http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugIn/Index.aspx</a> >
Quest	< <a href="https://www.quest.com/products/dr-series-disk-backup-appliances/">https://www.quest.com/products/dr-series-disk-backup-appliances/</a> >
Sepaton	< <a href="http://www.sepaton.com/">http://www.sepaton.com/</a> >
Veritas	< <a href="https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/">https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/</a> >

## OST Storage Servers - Vendor Compatibility

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<u>Cleversafe</u>	<u>Datish Systems (OpenDedup)</u>	<u>Dell EMC</u>
<u>Dell EMC Data Domain</u>	<u>ExaGrid</u>	<u>FalconStor</u>
<u>Fujitsu</u>	<u>H3C</u>	<u>Hewlett Packard Enterprise</u>
<u>Hitachi Vantara</u>	<u>Huawei</u>	<u>Infinidat</u>
<u>NEC</u>	<u>NetApp</u>	<u>Oracle</u>
<u>Quantum</u>	<u>Quest</u>	<u>SEPATON</u>
<u>Veritas</u>		

# Cleversafe

## Cleversafe - 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
dsNet series	V1.0	Ethernet	No		Datacenter	6

## Cleversafe - Family Membership

Storage Server Family	Members
dsNet series	Accesser 2100, Accesser 3100

# Datish Systems (OpenDedup)

## Datish Systems (OpenDedup) - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
OpenDedup [1] [2] [3] [4] [5] [6]	OpenDedup 2.0 Plug-in	Ethernet	No	Accelerator, Accel_VMware	Yes	Yes

1. CloudCatalyst: No
2. NetBackup Accelerator (for files and folders): Yes
3. NetBackup Accelerator with VMware: Yes
4. NetBackup Encryption Key Management Service: Yes
5. Supported with Amazon AWS S3 and Microsoft Azure.
6. Vendor site: [<http://www.opendedup.org>](http://www.opendedup.org)

## Datish Systems (OpenDedup) - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Red Hat Enterprise Linux on x86-64
OpenDedup [1] [2] [3] [4] [5] [6] [7] [8]	OpenDedup 2.2 Plug-in	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Targeted_A.I.R., WI_Opt_Dup	6, 7 [10] [11] [9]

1. CloudCatalyst: No
2. NetBackup Accelerator (for files and folders): Yes
3. NetBackup Accelerator with VMware: Yes
4. NetBackup Encryption Key Management Service: Yes
5. Supported with Amazon AWS S3 and Microsoft Azure.
6. Targeted Auto Image Replication: Yes
7. Vendor site: [<http://www.opendedup.org>](http://www.opendedup.org)
8. Whole Image Optimized Duplication: Yes
9. Requires Red Hat Enterprise Linux 6 Update 7 or later.
10. The Red Hat plug-in is also supported with CentOS 6.7 or later.
11. The Red Hat plug-in is also supported with CentOS 7.

# Dell EMC

## Dell EMC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DR2000v <a href="#">[1]</a>	3.1	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition <a href="#">[2]</a>	Datacenter <a href="#">[2]</a>	6	11
DR2000v <a href="#">[1]</a>	3.2	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Enterprise Edition <a href="#">[2]</a>	Datacenter <a href="#">[2]</a>	6	11
DR Series	3.1	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition <a href="#">[2]</a>	Datacenter <a href="#">[2]</a>	6	11
DR Series	3.2	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Enterprise Edition <a href="#">[2]</a>	Datacenter <a href="#">[2]</a>	6	11

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

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Appliance series <a href="#">[1]</a> <a href="#">[2]</a>	3.3	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	3.3	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	3.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	3.4	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.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	3.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	3.5	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.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	7.0	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	7.0	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.	Yes	Yes
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[6]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[6]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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

# Dell EMC Data Domain - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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) <a href="#">[2]</a> <a href="#">[8]</a>	3.3	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[8]</a>	3.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[8]</a>	3.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[8]</a>	7.0	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[6]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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



## Dell EMC Data Domain - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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. Plug-in version 7.2 or later is required for support of A.I.R./Targeted A.I.R. with NetBackup 8.3 or later.
2. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
3. When running Targeted A.I.R. over Fibre Channel, Windows is only supported as a target domain.
4. IPv6 is supported with NetBackup 8.1.1 and later.
5. WORM support requires plug-in version 7.2.0.50 or later and NetBackup 8.3.0.1 or later.
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. 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 2008 x64	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 <a href="#">[1]</a> <a href="#">[2]</a>	3.3	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	No	6, 7 <a href="#">[3]</a>	11, 12
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	3.3	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	No	6, 7 <a href="#">[3]</a>	11, 12
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	3.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	No	6, 7	11, 12
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a>	3.4	Fibre Channel	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	Datacenter	No	6, 7	11, 12
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	3.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	No	6, 7	11, 12

## Dell EMC Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a>	3.5	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.	No	Datacenter	Datacenter	No	6, 7	11, 12
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	7.0	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a>	7.0	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.	No	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[7]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[7]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 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 2008 x64	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Appliance series <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	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 2008 x64	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 <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[9]</a>	3.3	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[9]</a>	3.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	No	6, 7	11, 12
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[9]</a>	3.5	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	No	6, 7	11, 12
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[9]</a>	7.0	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[7]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 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 2008 x64	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
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[5]</a> <a href="#">[8]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15

1. Plug-in version 7.2 or later is required for support of A.I.R./Targeted A.I.R. with NetBackup 8.3 or later.
2. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
3. The Red Hat plug-in is also supported with Oracle Linux 6.
4. When running Targeted A.I.R. over Fibre Channel, Windows is only supported as a target domain.
5. IPv6 is supported with NetBackup 8.1.1 and later.
6. WORM support requires plug-in version 7.2.0.50 or later and NetBackup 8.3.0.1 or later.
7. WORM support requires plug-in version 7.3.0.10 or later and NetBackup 8.3.0.1 or later.
8. WORM support requires NetBackup 8.3.0.1 or later.
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 UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
Appliance series <a href="#">[1]</a> <a href="#">[2]</a>	3.3	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	3.3	Fibre Channel	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	3.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	3.4	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.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	3.5	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	3.5	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.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	7.0	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Appliance series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	7.0	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.	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[6]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[6]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11

## Dell EMC Data Domain - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Appliance series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[8]</a>	3.3	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[8]</a>	3.4	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[8]</a>	3.5	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[8]</a>	7.0	Ethernet	Yes	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[6]</a> <a href="#">[8]</a>	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	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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	10, 11	10, 11



## Dell EMC Data Domain - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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	10, 11	10, 11
Virtual Edition (VMware) <a href="#">[2]</a> <a href="#">[4]</a> <a href="#">[7]</a> <a href="#">[8]</a>	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	10, 11	10, 11

1. Plug-in version 7.2 or later is required for support of A.I.R./Targeted A.I.R. with NetBackup 8.3 or later.
2. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
3. When running Targeted A.I.R. over Fibre Channel, Windows is only supported as a target domain.
4. IPv6 is supported with NetBackup 8.1.1 and later.
5. WORM support requires plug-in version 7.2.0.50 or later and NetBackup 8.3.0.1 or later.
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. 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]	V11.4.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes

1. Accelerator support requires ExaGrid software version 5.2.2 or later.

## ExaGrid - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Windows Server 2019 x64	Red Hat Enterprise Linux on x86-64
EX series	V10.3.0	Ethernet	No	Granular_Recovery, Opt_Dup, Opt_Synth	Enterprise Edition	No	No	No	6
EX series [1]	V11.4.0	Ethernet	No	A.I.R., Accelerator, Accel_Hyper-V, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7
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.	Enterprise Edition	Datacenter	Datacenter	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.	No	Datacenter	Datacenter	Datacenter	7, 8

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 - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
EX series	V10.3.0	Ethernet	No	Granular_Recovery, Opt_Dup, Opt_Synth	10
EX series <a href="#">[1]</a>	V11.4.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11
EX series <a href="#">[1]</a> <a href="#">[2]</a>	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.	10, 11

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.

## ExaGrid - Family Membership

Storage Server Family	Members
EX series	EX1000, EX2000, EX3000, EX4000, EX5000, EX7000, EX7000-SEC, EX10000E, EX10000E-SEC, EX13000E, EX13000E-SEC, EX21000E, EX21000E-SEC, EX32000E, EX32000E-SEC, EX40000E, EX40000E-SEC, EX63000E, EX63000E-SEC

# 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 2008 x64	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.	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 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.	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

## FalconStor - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
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.	10, 11
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.	10, 11

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 <a href="#">[1]</a> <a href="#">[2]</a>	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.

## Fujitsu - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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 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	No	Datacenter	Datacenter	Datacenter	6, 7	11, 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	No	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 M1 <a href="#">[1]</a> <a href="#">[2]</a>	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	No	Datacenter	Datacenter	7, 8	No
ETERNUS CS800 S3	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11
ETERNUS CS800 S3	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
ETERNUS CS800 S4	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11
ETERNUS CS800 S4	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
ETERNUS CS800 S4	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
ETERNUS CS800 S5	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11
ETERNUS CS800 S5	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
ETERNUS CS800 S5	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
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	Enterprise Edition	Datacenter	No	No	6, 7	11, 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	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12

## Fujitsu - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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 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	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 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	No	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS8000 series	1.0	Ethernet	No	Opt_Dup	No	No	No	No	6, 7	11, 12
ETERNUS CS8000 series	1.1	Ethernet	No	Opt_Dup	Enterprise Edition	Datacenter	No	No	6, 7	11, 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.

## Fujitsu - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
ETERNUS CS800 S3	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
ETERNUS CS800 S4	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
ETERNUS CS800 S5	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
ETERNUS CS800 S6	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
ETERNUS CS800 S7	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11

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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP3310 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12
CP3352 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12
CP3352 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12 <a href="#">[4]</a>
CP3354 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12
CP3354 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12 <a href="#">[4]</a>
CP5510 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12
CP5510 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12 <a href="#">[4]</a>
CP5550 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12
CP5550 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12 <a href="#">[4]</a>
CP6660 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12
CP6660 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	Enterprise Edition	Datacenter	6, 7	11, 12 <a href="#">[4]</a>

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.

## H3C - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
CP3310 <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
CP3352 <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
CP3352 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	10, 11
CP3354 <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
CP3354 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	10, 11
CP5510 <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
CP5510 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	10, 11
CP5550 <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
CP5550 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	10, 11
CP6660 <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
CP6660 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>	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	10, 11

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.

# Hewlett Packard Enterprise

## Hewlett Packard Enterprise - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce 2000 series <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[6]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce 4000 series <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[6]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[7]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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) <a href="#">[2]</a> <a href="#">[3]</a>	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) <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	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

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 2008 x64	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 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	Enterprise Edition	Datacenter	No	No	6, 7	11, 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	No	Datacenter	Datacenter	Datacenter	6, 7 [4]	11, 12, 15

## Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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 2000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 3000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7 <a href="#">[4]</a>	11, 12, 15
StoreOnce 3000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 3500/3600 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[6]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12 <a href="#">[7]</a>
StoreOnce 3500/3600 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7 <a href="#">[4]</a>	11, 12, 15
StoreOnce 3500/3600 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	No	6, 7 <a href="#">[4]</a>	11, 12



# Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 3500/3600 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[8]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 3500/3600 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 4000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 4000 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[6]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 4000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7 <a href="#">[4]</a>	11, 12, 15
StoreOnce 4000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	No	6, 7 <a href="#">[4]</a>	11, 12



## Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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 4000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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 <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 5000 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[6]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7 <a href="#">[4]</a>	11, 12, 15
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	No	6, 7 <a href="#">[4]</a>	11, 12
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[8]</a>	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	Datacenter	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[8]</a>	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 2008 x64	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 5000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[9]</a>	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	No	Datacenter	Datacenter	7, 8	12, 15
StoreOnce 6000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 6000 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[6]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
StoreOnce 6000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	Datacenter	6, 7 <a href="#">[4]</a>	11, 12, 15
StoreOnce 6000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	No	Datacenter	Datacenter	No	6, 7 <a href="#">[4]</a>	11, 12
StoreOnce 6000 series <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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 2008 x64	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 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	No	Datacenter	Datacenter	Datacenter	6, 7 [4]	11, 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	Enterprise Edition	Datacenter	No	No	6, 7	11, 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	No	Datacenter	Datacenter	Datacenter	6, 7 [4]	11, 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	No	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	No	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 - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
StoreOnce 2000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
StoreOnce 2000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 3000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
StoreOnce 3000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 3500/3600 series <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
StoreOnce 3500/3600 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	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	10, 11
StoreOnce 3500/3600 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 3500/3600 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 4000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
StoreOnce 4000 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	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	10, 11
StoreOnce 4000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 4000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 5000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
StoreOnce 5000 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	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	10, 11
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 5000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11

## Hewlett Packard Enterprise - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
StoreOnce 6000 series <a href="#">[1]</a> <a href="#">[2]</a>	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	10, 11
StoreOnce 6000 series <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[4]</a>	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	10, 11
StoreOnce 6000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce 6000 series <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce VSA (Hyper-V) <a href="#">[2]</a> <a href="#">[3]</a>	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	11
StoreOnce VSA (VMware) <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[5]</a>	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	10, 11
StoreOnce VSA (VMware) <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[5]</a>	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	11

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](https://www.veritas.com/support/en_US/article.100009391)>
4. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
5. 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

# Hitachi Vantara

## Hitachi Vantara - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Protection Platform S-Series	8.1	Ethernet	No	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	Yes	Yes
Protection Platform S-Series	8.1	Fibre Channel	No	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	Yes	Yes

## Hitachi Vantara - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HCO 212	HCO Adapter 2.2	Ethernet	No		Enterprise Edition	Datacenter <a href="#">[1]</a>	No	No
Protection Platform S-Series	7.3	Ethernet	No	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	Enterprise Edition <a href="#">[2]</a>	Datacenter	6 <a href="#">[3]</a> <a href="#">[4]</a>	11
Protection Platform S-Series	7.3	Fibre Channel	No	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	Enterprise Edition <a href="#">[2]</a>	Datacenter	6 <a href="#">[3]</a> <a href="#">[4]</a>	11
Protection Platform S-Series	8.1	Ethernet	No	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	Enterprise Edition <a href="#">[2]</a>	Datacenter	6, 7 <a href="#">[3]</a> <a href="#">[4]</a>	11, 12
Protection Platform S-Series	8.1	Fibre Channel	No	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	Enterprise Edition <a href="#">[2]</a>	Datacenter	6, 7 <a href="#">[3]</a> <a href="#">[4]</a>	11, 12

1. Windows 2012 support requires plug-in version 2.2.2 or later.
2. Requires Windows 2008 R2 or later.
3. The Red Hat plug-in is also supported with CentOS 5.
4. The Red Hat plug-in is also supported with CentOS 6.

## Hitachi Vantara - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
Protection Platform S-Series	7.3	Ethernet	No	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	10, 11
Protection Platform S-Series	7.3	Fibre Channel	No	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	10, 11
Protection Platform S-Series	8.1	Ethernet	No	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	10, 11
Protection Platform S-Series	8.1	Fibre Channel	No	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	10, 11

## Hitachi Vantara - Family Membership

Storage Server Family	Members
Protection Platform S-Series	Protection Platform S1500, Protection Platform S2500, Protection Platform S2700, Protection Platform S2750

# Huawei

## Huawei - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64
VTL	2.1	Fibre Channel	No	Direct_Copy_Shared, Opt_Dup	Enterprise Edition

## Huawei - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
VTL	2.1	Fibre Channel	No	Direct_Copy_Shared, Opt_Dup	10	10

## Huawei - Family Membership

Storage Server Family	Members
VTL	VTL3500, VTL6000



# 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 2008 x64	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	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 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	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
InfiniGuard B-series	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.	No	Datacenter	Datacenter	Datacenter	7, 8	No

## Infinidat - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
InfiniGuard B-series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11

## 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 2008 x64	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
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	No
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a>	2.10	Ethernet	No	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	No
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a> <a href="#">[2]</a>	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	No	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) <a href="#">[1]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	12, 15
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) <a href="#">[1]</a> <a href="#">[2]</a>	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	No	Datacenter	Datacenter	7, 8	12, 15
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance <a href="#">[1]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance <a href="#">[1]</a> <a href="#">[2]</a>	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	No	Datacenter	Datacenter	7, 8	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.

## NEC - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Opt_Dup, Opt_Synth	10, 11
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a>	2.10	Ethernet	No	A.I.R., Opt_Dup, Opt_Synth	10, 11
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a>	2.11	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11
HYDRAsstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) <a href="#">[1]</a> <a href="#">[2]</a>	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	11
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) <a href="#">[1]</a>	2.11	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11
HYDRAsstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) <a href="#">[1]</a> <a href="#">[2]</a>	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	11
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance <a href="#">[1]</a>	2.11	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	11
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance <a href="#">[1]</a> <a href="#">[2]</a>	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	11

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.

## 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

# NetApp

## NetApp - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
AltaVault <a href="#">[1]</a>	1.2	Ethernet	No	Opt_Dup	Yes	Yes

1. NetBackup supports AltaVault sending backup images to any public or private cloud provider supported by AltaVault. See NetApp's list of cloud providers supported with AltaVault. Only one cloud provider can be configured per AltaVault physical appliance or virtual instance.

## NetApp - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
AltaVault <a href="#">[1]</a>	1.2	Ethernet	No	Opt_Dup	Enterprise Edition	Datacenter	6, 7

1. NetBackup supports AltaVault sending backup images to any public or private cloud provider supported by AltaVault. See NetApp's list of cloud providers supported with AltaVault. Only one cloud provider can be configured per AltaVault physical appliance or virtual instance.

## NetApp - Family Membership

Storage Server Family	Members
AltaVault	AVA-400, AVA-800, AVA-c4, AVA-c8, AVA-c16, AVA-v2, AVA-v8, AVA-v16, AVA-v32

# 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	6, 7	11, 12
ZFS Storage Appliance series	1.1	Fibre Channel	No	Opt_Dup	No	6, 7	11, 12
ZFS Storage Appliance series <a href="#">[1]</a>	2.0	Ethernet	No	Opt_Dup	Datacenter	6, 7	11, 12
ZFS Storage Appliance series <a href="#">[1]</a>	2.0	Fibre Channel	No	Opt_Dup	No	6, 7	11, 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 - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
ZFS Storage Appliance series	1.1	Ethernet	No	Opt_Dup	11	11
ZFS Storage Appliance series	1.1	Fibre Channel	No	Opt_Dup	11	11
ZFS Storage Appliance series <a href="#">[1]</a>	2.0	Ethernet	No	Opt_Dup	11	11

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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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 <a href="#">[6]</a>	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 <a href="#">[6]</a>	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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[7]</a>	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 2008 x64	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
DXi4000 Series	2.9	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	No	No	6	11
DXi4000 Series	3.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12



## Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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
DXi4000 Series	3.1	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi4000 Series	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
DXi4700 Series <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11
DXi4700 Series <a href="#">[1]</a> <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6	No
DXi4700 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi4700 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi4800 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi4800 Series <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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.	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
DXi4800 Series <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a>	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
DXi6000 Series <a href="#">[7]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	No	Datacenter	No	No	6	11
DXi6000 Series <a href="#">[7]</a>	3.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12

## Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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
DXi6000 Series <a href="#">[7]</a>	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi6000 Series <a href="#">[7]</a>	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
DXi6700 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11
DXi6700 Series	3.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi6700 Series	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi6700 Series	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
DXi6800 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11
DXi6800 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6	No
DXi6800 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi6800 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6900 Series <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6	11

## Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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
DXi6900 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6	No
DXi6900 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi6900 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6900 Series <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[8]</a>	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.	No	Datacenter	Datacenter	Datacenter	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	Enterprise Edition	Datacenter	No	No	6	11
DXi8500 Series	3.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi8500 Series	3.1	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi8500 Series	10.0	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
DXi9000 Series <a href="#">[2]</a>	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi9000 Series <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a>	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.	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15

## Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	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
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	No	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	No	Datacenter	No	No	6	11
DXi V Series [9]	3.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi V Series [9]	3.1	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11, 12
DXi V Series [9]	10.0	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 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.	No	Datacenter	Datacenter	Datacenter	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	No	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 - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
DXi4000 Series	2.9	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi4700 Series <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi4800 Series <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi6000 Series <a href="#">[2]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi6700 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi6800 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi6900 Series <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi8500 Series	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi9000 Series <a href="#">[1]</a>	2.9	Ethernet	No	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	10, 11	10, 11
DXi V Series <a href="#">[3]</a>	2.9	Ethernet	No	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11	10, 11

1. Direct Copy to Tape support requires DXi Software 3.0 or later.
2. The Direct Copy to shared tape drives feature (Direct\_Copy\_Shared) is supported on the DXi6540 and DXi6550 models.
3. 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 2008 x64	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
DR 13g Series	4.0	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	No	6, 7	11
QoreStor <a href="#">[1]</a>	4.1	Ethernet	No	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	Datacenter	Datacenter	6, 7 <a href="#">[2]</a>	11

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

# SEPATON

## SEPATON - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
S2100	8.1	Ethernet	No	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	Yes	Yes
S2100	8.1	Fibre Channel	No	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	Yes	Yes

## SEPATON - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
S2100	7.2	Ethernet	No	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition <a href="#">[1]</a>	Datacenter	6 <a href="#">[2]</a> <a href="#">[3]</a>	11
S2100	7.2	Fibre Channel	No	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition <a href="#">[1]</a>	Datacenter	6 <a href="#">[2]</a> <a href="#">[3]</a>	11
S2100	7.3	Ethernet	No	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	Enterprise Edition <a href="#">[1]</a>	Datacenter	6 <a href="#">[2]</a> <a href="#">[3]</a>	11
S2100	7.3	Fibre Channel	No	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	Enterprise Edition <a href="#">[1]</a>	Datacenter	6 <a href="#">[2]</a> <a href="#">[3]</a>	11
S2100	8.1	Ethernet	No	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	Enterprise Edition <a href="#">[1]</a>	Datacenter	6, 7 <a href="#">[2]</a> <a href="#">[3]</a>	11, 12
S2100	8.1	Fibre Channel	No	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	Enterprise Edition <a href="#">[1]</a>	Datacenter	6, 7 <a href="#">[2]</a> <a href="#">[3]</a>	11, 12

1. Requires Windows 2008 R2 or later.
2. The Red Hat plug-in is also supported with CentOS 5.
3. The Red Hat plug-in is also supported with CentOS 6.

## SEPATON - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC
S2100	7.2	Ethernet	No	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11
S2100	7.2	Fibre Channel	No	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	10, 11
S2100	7.3	Ethernet	No	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	10, 11
S2100	7.3	Fibre Channel	No	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	10, 11
S2100	8.1	Ethernet	No	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	10, 11
S2100	8.1	Fibre Channel	No	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	10, 11

## SEPATON - Family Membership

Storage Server Family	Members
S2100	S2100-DS3, S2100-ES2, S2100-ES3



# Veritas

## Veritas - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	5200 Series	5300 Series
Veritas Access <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a>	OpenDedup 2.0 Plug-in	Ethernet	No	Accelerator, Accel_VMware	Yes	Yes

1. CloudCatalyst: No
2. NetBackup Accelerator (for files and folders): Yes
3. NetBackup Accelerator with VMware: Yes
4. NetBackup Encryption Key Management Service: Yes
5. The Datish Systems OpenDedup plug-in is available from the vendor's website. Use the link [in this table](#) .
6. Vendor site: <https://www.veritas.com/product/software-defined-storage/access>

## 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 <a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a> <a href="#">[4]</a> <a href="#">[5]</a> <a href="#">[6]</a> <a href="#">[7]</a> <a href="#">[8]</a>	OpenDedup 2.2 Plug-in	Ethernet	No	Accelerator, Accel_NDMP, Accel_VMware, Targeted_A.I.R., WI_Opt_Dup	No	No	6, 7	No
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	6, 7	11, 12

1. CloudCatalyst: No
2. NetBackup Accelerator (for files and folders): Yes
3. NetBackup Accelerator with VMware: Yes
4. NetBackup Encryption Key Management Service: Yes
5. Targeted Auto Image Replication: Yes
6. The Datish Systems OpenDedup plug-in is available from the vendor's website. Use the link [in this table](#) .
7. Vendor site: <https://www.veritas.com/product/software-defined-storage/access>
8. Whole Image Optimized Duplication: Yes

## Veritas - Support with UNIX

Storage Server Family	Plug-in	Data Interface	IPv6	Supported OpenStorage Functionality	Solaris on SPARC	Solaris 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.	10, 11	10, 11

# 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, with Linux/Windows operating systems, and with UNIX 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

<a href="#"><u>Virtual Tape Libraries/Drives - Considerations</u></a>	<a href="#"><u>Virtual Tape Libraries/Drives - Tape Drive Emulation Attributes</u></a>	<a href="#"><u>Virtual Tape Libraries/Drives - NetBackup Robot Types</u></a>
<a href="#"><u>Virtual Tape Libraries/Drives - Vendor Compatibility</u></a>		

## Virtual Tape Libraries/Drives - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the <a href="#">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. 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.</li><li>2. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</li><li>3. 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.</li><li>4. 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.</li><li>5. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</li><li>6. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</li><li>7. 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.</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>1. Check the device manufacturer's compatibility list to verify OS platform support for the version of software running on your VTL.</li><li>2. Check the device manufacturer's compatibility list to verify the minimum version of VTL software required for your VTL family member.</li><li>3. 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.</li></ol>
Configuration considerations	<ol style="list-style-type: none"><li>1. 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.</li><li>2. 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.</li><li>3. 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.</li><li>4. NetBackup NDMP Direct Copy with VTL enables NDMP tape duplication to physical tape libraries. For more information on this feature, see <a href="#">"About NDMP DirectCopy"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/id-SF940150907-131831692">https://www.veritas.com/content/support/en_US/doc/24427212-131831692-0/id-SF940150907-131831692</a>&gt; .</li></ol>
OS library and tape driver considerations	<ol style="list-style-type: none"><li>1. Refer to the <a href="#">Tape Drives</a> section of this document for information on supported tape drivers.</li></ol>

Subject	Notes
Operational considerations	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.
Operating system support dropped	<b>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</b> <b>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</b> <b>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</b> <b>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</b> <b>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</b> <b>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</b>

## Virtual Tape Libraries/Drives - Tape Drive Emulation Attributes

The following table lists attributes supported with Virtual Tape Libraries and indicates the NetBackup version (8.2 or later) at which that attribute was first supported.

Attribute	Abbreviation	NetBackup 8.2 (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	8.2
NDMP Direct Copy with VTL, physical tape drives used with this feature can be shared using NetBackup Shared Storage Option (SSO).	DirCpy_Shr	8.2
SCSI Reservation	SResv	8.2
SCSI Persistent Reservation	SPR	8.2
Write Once, Read Many	WORM	8.2
NetBackup Encryption Key Management Service	KMS	8.2
Append-only mode	Append	8.2

## 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 8.0 - 8.x.x Operating System Software Compatibility List" <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_OSSCL](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL)> .

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](https://www.veritas.com/content/support/en_US/doc/23395442-133128031-0/index)> .

## TLD - Tape Library DLT

Operating System	NetBackup 8.2 (or later) Start of Support
NDMP	8.2
Red Hat Enterprise Linux on x86-64	8.2
Solaris on SPARC	8.2
Solaris on x64	8.2
SUSE Linux Enterprise Server on x86-64	8.2
Windows Server 2008 x64	8.2
Windows Server 2012 x64	8.2
Windows Server 2016 x64	8.2
Windows Server 2019 x64	8.2

## Virtual Tape Libraries/Drives - Vendor Compatibility

### Contents

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

# Amazon

## Amazon - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	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		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 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 2008 x64	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		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC~~~~Disk^Library	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC~~~~Disk^Library	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DR Series (Dell) - iSCSI	IBM LTO - all generations	Latest from Manufacturer	DELL~~~~DR_L700		Enterprise Edition	Datacenter	No	No	6	No
NDMP2D - NDMP	IBM LTO - all generations	Latest from Manufacturer	EMC~~~~svtIrobot		No	No	No	No	No	11

## Dell EMC - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
DL3D series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC~~~~DL1500		10	10
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC~~~~Disk^Library	DirCpy_Shr	10, 11	10, 11
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC~~~~Disk^Library	DirCpy_Shr	10	10
NDMP2D - NDMP	IBM LTO - all generations	Latest from Manufacturer	EMC~~~~svtIrobot		10	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 <a href="#">[1]</a> <a href="#">[2]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Yes	Yes
Appliance Series - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	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 2008 x64	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 <a href="#">[1]</a> <a href="#">[2]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Appliance Series - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Appliance Series - NDMP	IBM LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		No	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 - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
Appliance Series - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		10, 11	10
Appliance Series - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM LTO - all generations	Latest from Manufacturer	D_DOMAINRESTORER_L180		10, 11	10

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 2008 x64	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15

## FalconStor - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	10, 11	10
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	10	10, 11

# Fujitsu

## Fujitsu - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Yes	Yes
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Yes	Yes
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Yes	Yes
ETERNUS CS - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Yes	Yes
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Yes	Yes
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Yes	Yes
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S6 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S6 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S7 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S7 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL	DirCpy_Shr	Yes	Yes

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

## Fujitsu - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	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 (ACS) - Fibre Channel <a href="#">[1]</a>	IBM LTO - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Enterprise Edition	No	No	No	6, 7	11, 12
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^~~~~CS-TL		Enterprise Edition	No	No	No	6, 7	11, 12

## Fujitsu - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	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 LTO - all generations	Latest from Manufacturer	FSC^CS-TL		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^CS-TL		Enterprise Edition	No	No	No	6, 7	11, 12
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^CS-TL		Enterprise Edition	No	No	No	6, 7	11, 12
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 S6 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 S6 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
ETERNUS CS800 S7 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
ETERNUS CS800 S7 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12

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

## Fujitsu - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL		10, 11	10
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^CS-TL		10	10
ETERNUS CS (ACS) - Fibre Channel <a href="#">[1]</a>	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^CS-TL		10	10
ETERNUS CS - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL		10, 11	10
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^CS-TL		10	10, 11
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^CS-TL		10	10, 11
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S6 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S6 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S7 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11
ETERNUS CS800 S7 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	10, 11	10, 11

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 2008 x64	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		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	No	No	6, 7	11, 12
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	No	No	6, 7	11, 12

## H3C - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
CP3352 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11



# 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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 2008 x64	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		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
StoreOnce 4000 - Fibre Channel <a href="#">[1]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
StoreOnce 6000 - Fibre Channel <a href="#">[1]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15

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

## Hewlett Packard Enterprise - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
StoreOnce 3500 / 3600 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11
StoreOnce 4000 - Fibre Channel <a href="#">[1]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10	10
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10, 11
StoreOnce 6000 - Fibre Channel <a href="#">[1]</a>	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^D2DBS		10, 11	10

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	Windows Server 2008 x64	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		Enterprise Edition	6, 7	11, 12

## Hitachi Vantara - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
Hitachi Virtual Tape Library Solutions - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		10	10

## 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 2008 x64	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15

## Huawei - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
VTL - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	10	10

## 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 <a href="#">[1]</a> <a href="#">[2]</a>	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	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 2008 x64	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		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC~~~~~VTF		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	Quantum DLT 7000	Latest from Manufacturer	DTC~~~~~VTF		Enterprise Edition	No	No	No	No	11

## IBM - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	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 TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~3584L32		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Virtualization Engine TS7510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7510		No	No	No	No	No	11
Virtualization Engine TS7510 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~~TS7510		No	No	No	No	No	11
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	No	No	No	No	No	11
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Enterprise Edition	No	No	No	No	11
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Enterprise Edition	No	No	No	No	11
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7530	DirCpy_Ded	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM~~~~~TS7530	DirCpy_Ded	Enterprise Edition	No	No	No	6, 7	11, 12
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~~TS7530	DirCpy_Ded	Enterprise Edition	No	No	No	6, 7	11, 12

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 UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
System Storage TS7600 series with ProtecTIER - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		10, 11	10, 11
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC~~~~~VTF		10, 11	10
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	Quantum DLT 7000	Latest from Manufacturer	DTC~~~~~VTF		10	10

## IBM - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
System Storage TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^3584L32		10, 11	10, 11
Virtualization Engine TS7510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7510		10	No
Virtualization Engine TS7510 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^TS7510		10	No
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7520	DirCpy_Ded	10	No
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^TS7520	DirCpy_Ded	10	No
Virtualization Engine TS7520 - Fibre Channel <a href="#">[1]</a> <a href="#">[2]</a>	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^TS7520	DirCpy_Ded	10	No
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	10	No
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	10	No
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^TS7530	DirCpy_Ded	10	No

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 - 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 2008 x64	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
InfiniGuard B-series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15

## Infinidat - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
InfiniGuard B-series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
InfiniGuard B-series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11

## 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	Windows Server 2008 x64	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		Enterprise Edition	6, 7	11, 12

## NEC - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
T3000VT Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~V3584L32		10	10

## 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 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
StorageTek VSM 7 - Ethernet <a href="#">[1]</a>	Oracle VDrive	Latest from Manufacturer			Enterprise Edition	Datacenter	7

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

## Oracle - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC
StorageTek VSM 7 - Ethernet <a href="#">[1]</a>	Oracle VDrive	Latest from Manufacturer			10, 11

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
DXi6700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6700 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
DXi8500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi8500 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 2008 x64	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi4800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi4800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15

## Quantum - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	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
DXi6700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi8500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi8500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi9000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
DXi9000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15

## Quantum - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
DXi4700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi4800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi4800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi6700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi6700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10	10
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10	10
DXi8500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi8500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi9000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11
DXi9000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	10, 11	10, 11

## Quantum - Family Membership

VTL Family - Interface	Members
DXi4700 Series - Fibre Channel	DXi4701
DXi4800 Series - Fibre Channel	DXi4800
DXi6700 Series - Fibre Channel	DXi6700, DXi6701, DXi6702
DXi6800 Series - Fibre Channel	DXi6802
DXi6900 Series - Fibre Channel	DXi6900, DXi6900-S
DXi7500 Series - Fibre Channel	DXi7500, DXi7500 Enterprise, DXi7500 Express, DXi7500-N
DXi8500 Series - Fibre Channel	DXi8500, DXi8500 2TB, DXi8500 3TB
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 2008 x64	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		Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7

## Quest - Family Membership

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

# SEPATON

## SEPATON - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	IBM LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Oracle StorageTek T9940 - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes

## SEPATON - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	IBM LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	No	No	No	11
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Oracle StorageTek T9940 - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	No	No	No	11

## SEPATON - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	SEPATON^S2100		10, 11	No
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	IBM LTO - all generations	Latest from Manufacturer	SEPATON^S2100		10, 11	No
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	SEPATON^S2100		10	10
S2100 - Fibre Channel ( <a href="#">Retiring soon</a> )	Oracle StorageTek T9940 - all generations	Latest from Manufacturer	SEPATON^S2100		10	10

## SEPATON - Family Membership

VTL Family - Interface	Members
S2100 - Fibre Channel	S2100-DS2, S2100-DS3, S2100-ES2, S2100-ES3



# 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 2008 x64	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	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
nTier VTL - Fibre Channel <a href="#">[1]</a>	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Ded	Enterprise Edition	No	No	No	No	No

1. NDMP Direct Copy with Physical Drives Dedicated support requires version 5.0 or later.

## Spectra Logic - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC	Solaris 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	10	10
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Shr	10	10

# Tandberg

## Tandberg - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	SUSE Linux Enterprise Server on x86-64
DPS1000 Series VTL - iSCSI	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	TANDBERGDPS1000		Enterprise Edition	11

## 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

<a href="#">Tape Libraries - Considerations</a>	<a href="#">Tape Libraries - NetBackup Robot Types</a>	<a href="#">Tape Libraries - Legend</a>
<a href="#">Tape Libraries - Vendor Compatibility</a>		

## Tape Libraries - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the <a href="#">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. The tables in this section show robotic support only, not tape drive support. Refer to the <a href="#">Tape Drives</a> 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.</li><li>2. 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.</li><li>3. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server.</li><li>4. For ACS robots the "Inquiry String" column is intentionally left blank.</li><li>5. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported.</li></ol>
Configuration considerations	<ol style="list-style-type: none"><li>1. Library partitioning is supported unless noted otherwise.</li><li>2. Library expansion modules are supported unless noted otherwise.</li><li>3. Configuring persistent robotic paths for Linux media servers is supported with NetBackup 8.3 and later. To enable this functionality, you can download <a href="#">a Linux rules file from the Veritas Support Downloads Center</a> &lt;<a href="https://www.veritas.com/content/support/en_US/downloads/update.UPD961531.html">https://www.veritas.com/content/support/en_US/downloads/update.UPD961531.html</a>&gt; . 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.</li></ol>
Operating system support dropped	<ol style="list-style-type: none"><li>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</li><li>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</li><li>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</li><li>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</li></ol>

# 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 8.0 - 8.x.x Operating System Software Compatibility List" &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server.</li><li>2. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported.</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>1. The ACSLS version must be currently supported by Oracle.</li><li>2. ACSLS 8.0, 8.1, 8.2, 8.3, 8.4, and 8.5 are supported with NetBackup 8.2 and later. Earlier ACSLS versions are not supported.</li><li>3. The Logical Libraries feature introduced in ACSLS 8.0 is supported with libraries for which both ACS and TLD support is listed.</li><li>4. LibAttach is required with Windows media servers. The LibAttach version must be currently supported by Oracle.</li><li>5. LibAttach 1.4.2 and 1.4.3 are supported with NetBackup 8.2 and later. Earlier LibAttach versions are not supported.</li></ol>
Configuration considerations	<ol style="list-style-type: none"><li>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.</li></ol>
Operating system support dropped	<ol style="list-style-type: none"><li>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</li><li>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</li><li>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</li><li>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</li><li>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</li></ol>

## ACS - Oracle Automated Cartridge System - Supported Operating Systems

Operating System	NetBackup 8.2 (or later) Start of Support
NDMP	8.2
Red Hat Enterprise Linux on x86-64	8.2
Solaris on SPARC	8.2 [1]
Solaris on x64	8.2 [1]
SUSE Linux Enterprise Server on x86-64	8.2
Windows Server 2008 x64	8.2 [2]
Windows Server 2012 x64	8.2 [3]
Windows Server 2016 x64	Not supported

## ACS - Oracle Automated Cartridge System - Supported Operating Systems

Operating System	NetBackup 8.2 (or later) Start of Support
Windows Server 2019 x64	Not supported

1. For Solaris 11 support, ACS robotics require the "compatibility/ucb" package from Oracle.
2. Requires LibAttach 1.4.2 or 1.4.3 from Oracle.
3. Requires LibAttach 1.4.3 from Oracle.

## ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 8.2 (or later) Start of Support
4480	8.2
4490	8.2
4890	8.2
9490	8.2
9491	8.2
9840	8.2
9840-3590	8.2
9940-3590	8.2
CER-LTO	8.2
CER-LTO-2	8.2
CER-LTO-3	8.2
DLT2000	8.2
DLT2000XT	8.2
DLT4000	8.2
DLT7000	8.2
DLT8000	8.2
DLT-S4	8.2
HP-LTO	8.2
HP-LTO-2	8.2
HP-LTO-3	8.2
HP-LTO-4	8.2
HP-LTO-5	8.2

## ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSLS Drive Types	NetBackup 8.2 (or later) Start of Support
HP-LTO-6	8.2
HP-LTO-7	8.2
IBM-LTO	8.2
IBM-LTO-2	8.2
IBM-LTO-3	8.2
IBM-LTO-4	8.2
IBM-LTO-5	8.2
IBM-LTO-6	8.2
IBM-LTO-7	8.2
IBM-LTO-8	8.2
QNT-LTO-4	8.2
SD3	8.2
SDLT	8.2
SDLT-320	8.2
SDLT-600	8.2
T1A	8.2
T1A35	8.2
T1AE	8.2
T1AE35	8.2
T1B	8.2
T1B35	8.2
T1BE	8.2
T1BE35	8.2
T1C	8.2
T1C35	8.2
T1CE	8.2
T1CE35	8.2
T1D	8.2
T1D35	8.2
T1DE	8.2
T1DE35	8.2
T1D-Eth	8.2

## ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSLS Drive Types	NetBackup 8.2 (or later) Start of Support
T1DpEth	8.2
T9840B	8.2
T9840B35	8.2
T9840C	8.2
T9840C35	8.2
T9840CE	8.2
T9840CE5	8.2
T9840D	8.2
T9840D35	8.2
T9840DE	8.2
T9840DE5	8.2
T9940A	8.2
T9940B	8.2
T9940B35	8.2
VDRIVE	8.2
VIRT-DRV	8.2

## ACS - Oracle Automated Cartridge System - Supported Media Types

ACSLS Media Types	NetBackup 8.2 (or later) Start of Support
3480	8.2
3490E	8.2
DD3A	8.2
DD3B	8.2
DD3C	8.2
DD3D	8.2
DLTIII	8.2
DLTIIIXT	8.2
DLTIV	8.2
EECART	8.2

## ACS - Oracle Automated Cartridge System - Supported Media Types

ACSLS Media Types	NetBackup 8.2 (or later) Start of Support
JLABEL	8.2
KLABEL	8.2
LTO_1_5_T	8.2
LTO_1_5_W	8.2
LTO_2_5_T	8.2
LTO_2_5_W	8.2
LTO_6_4_T	8.2
LTO_6_4_W	8.2
LTO_12_T	8.2
LTO_12_W	8.2
LTO_10GB	8.2
LTO_35GB	8.2
LTO_50GB	8.2
LTO_100G	8.2
LTO_200G	8.2
LTO_400G	8.2
LTO_400W	8.2
LTO_800G	8.2
LTO_800W	8.2
LTO_CLN1	8.2
LTO_CLN2	8.2
LTO_CLN3	8.2
LTO_CLNU	8.2
SDLT	8.2
SDLT_2	8.2
SDLT_4	8.2
SDLT_S1	8.2
SDLT_S2	8.2
SDLT_S3	8.2
SDLT_S4	8.2
STK1R	8.2
STK1U	8.2



## ACS - Oracle Automated Cartridge System - Supported Media Types

ACSLS Media Types	NetBackup 8.2 (or later) Start of Support
STK1Y	8.2
STK2P	8.2
STK2W	8.2
T10000CC	8.2
T10000CL	8.2
T10000CT	8.2
T10000T1	8.2
T10000T2	8.2
T10000TS	8.2
T10000TT	8.2
VIRTUAL	8.2
VCART	8.2

## TLD - Tape Library DLT - Supported Operating Systems

Operating System	NetBackup 8.2 (or later) Start of Support
NDMP	8.2
Red Hat Enterprise Linux on x86-64	8.2
Solaris on SPARC	8.2
Solaris on x64	8.2
SUSE Linux Enterprise Server on x86-64	8.2
Windows Server 2008 x64	8.2
Windows Server 2012 x64	8.2
Windows Server 2016 x64	8.2
Windows Server 2019 x64	8.2

# 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		
<a href="#">Dell EMC</a>	<a href="#">Fujitsu</a>	<a href="#">H3C</a>
<a href="#">Hewlett Packard Enterprise</a>	<a href="#">Hitachi Vantara</a>	<a href="#">IBM</a>
<a href="#">NEC</a>	<a href="#">Oracle</a>	<a href="#">Overland Storage</a>
<a href="#">Qualstar</a>	<a href="#">Quantum</a>	<a href="#">Spectra Logic</a>
<a href="#">Tandberg</a>		

### 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^500	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault ML6000 Series - SCSI (Retiring soon)	ADIC^Scalar^500	Multi LUN	TLD	
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.

## Dell EMC

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
PowerVault TL2000 - SCSI (Retiring soon)	IBM^3573-TL	Multi LUN	TLD	
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.
PowerVault TL4000 - SCSI (Retiring soon)	IBM^3573-TL	Multi LUN	TLD	

## 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.
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.

## H3C

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
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.
1/8 G2 Tape Autoloader - SCSI (Retiring soon)	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	
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.
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.
MSL2024 - SCSI (Retiring soon)	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender.
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.

## Hewlett Packard Enterprise

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
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.
MSL4048 - SCSI (Retiring soon)	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender.
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.
MSL8048 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL8048 - 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.
MSL8048 - SCSI (Retiring soon)	HP^MSL^G3^Series	Multi LUN	TLD	
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.
MSL8096 - 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.
MSL8096 - SCSI (Retiring soon)	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender.

## 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.

# Hitachi Vantara

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
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) - 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 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 TS3200 (Machine Type 3573) - SCSI (Retiring soon)	IBM~~~~3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows.
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 TS3310 (Machine Type 3576) - SAS	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 the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
System Storage TS3310 (Machine Type 3576) - SCSI (Retiring soon)	IBM~~~~3576-MTL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows.
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.

## IBM

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
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 - Fibre Channel	NEC~~~~LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required.  This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
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 - Fibre Channel	NEC~~~~LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required.  This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
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 SL24 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL24 - 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.
StorageTek SL24 - SCSI (Retiring soon)	HP^MSL^G3^Series	Multi LUN	TLD	
StorageTek SL48 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL48 - 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.
StorageTek SL48 - SCSI (Retiring soon)	HP^MSL^G3^Series	Multi LUN	TLD	
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 SL150 - SAS	STK^SL150	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageTek SL500 - Fibre Channel (Retiring soon)	STK^SL500	SCSI ID	ACS, TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL500 - SAS (Retiring soon)	STK^SL500	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageTek SL500 - SCSI (Retiring soon)	STK^SL500	SCSI ID	ACS, TLD	
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, TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.



## Overland Storage

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
NEO 8000e - Fibre Channel	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 8000e - SAS	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
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.
NEOxl series - Fibre Channel	BDT^MULTISTAK	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEOxl 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	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Q24 - SAS	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
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.
RLS-8350 - Fibre Channel	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
RLS-8350 - SAS	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
RLS-8500 LTO series - SAS	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
XLS series - Fibre Channel	QUALSTARXLS-8000	SCSI ID	TLD	<p>All models in the XLS series are supported (XLS-810160, XLS-810240, XLS-812300, XLS-820500, XLS-832700, XLS-8161100).</p> <p>QUALSTARXLS-8000 and QUALSTARXLS-8100 inquiry strings are supported with the XLS series.</p> <p>This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.</p>

## 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 i40 - Fibre Channel	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i40 - SAS	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i80 - Fibre Channel	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i80 - SAS	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	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 i500 - SCSI (Retiring soon)	Quantum^Scalar^i500	Multi LUN	TLD	
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.
SuperLoader 3 - SCSI (Retiring soon)	QUANTUM^UHDL	Multi LUN	TLD	

## 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 T120 - SCSI (Retiring soon)	SPECTRA^PYTHON	Multi LUN	TLD	
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 Logic

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
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 T24 - SCSI (Retiring soon)	EXABYTE^MAGNUM^224	Multi LUN	TLD	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 NEOxl 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 NEOxl 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 NEOxl 80.
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.
StorageLoader LTO - SAS	TANDBERGStorageLoader	Multi LUN	TLD	

# Tape Drives

Tape drive support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems and with UNIX 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.

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[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 <a href="#">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. To ensure support, a device (both drive and library where applicable) must be supported by Veritas, the device manufacturer, and the operating system vendor.</li><li>2. 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.</li><li>3. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</li><li>4. 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.</li><li>5. 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.</li><li>6. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</li><li>7. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</li><li>8. 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.</li><li>9. 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.</li><li>10. Backup Exec Tape Reader is not supported in NetBackup 8.0 and later releases.</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>1. 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.</li></ol>
Configuration considerations	<ol style="list-style-type: none"><li>1. 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.</li><li>2. 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.</li><li>3. For Solaris 10, Veritas recommends running Update 6 (137137-09 for SPARC, 137138-09 for x64) or later.</li></ol>
OS tape driver considerations	<ol style="list-style-type: none"><li>1. Except where noted, Veritas recommends the use of the operating system's native tape drivers.</li></ol>

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"><li>- M8 cartridges are supported with LTO-8 tape drives.</li><li>- M8 cartridges pre-formatted by the media vendor are supported.</li><li>- 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.</li><li>- NetBackup does not have the ability to convert LTO-7 cartridges with an M8 barcode to M8 format.</li><li>- For more information on M8 media (for example, formatting methods, supported barcodes, other technical information), please consult the vendor's documentation.</li></ul> <p>3. <b>Uninitialized LTO-9 media is not supported with NetBackup.</b> 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" &lt;<a href="https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&amp;docId=sd00001248en_us&amp;page=GUID-8055E588-A65F-4E79-A37D-07AA053E1756.html">https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&amp;docId=sd00001248en_us&amp;page=GUID-8055E588-A65F-4E79-A37D-07AA053E1756.html</a>&gt;</p> <p>"HPE StoreOpen Software 3.5 for Microsoft Windows User Guide - LTO-9 Media Initialization" &lt;<a href="https://support.hpe.com/hpesc/public/docDisplay?docId=sd00001247en_us&amp;page=GUID-8055E588-A65F-4E79-A37D-07AA053E1756.html">https://support.hpe.com/hpesc/public/docDisplay?docId=sd00001247en_us&amp;page=GUID-8055E588-A65F-4E79-A37D-07AA053E1756.html</a>&gt;</p> <p>"Oracle StorageTek SL150 Modular Tape Library - Library Support of LTO9 Tape Calibration" &lt;<a href="https://docs.oracle.com/en/storage/tape-storage/storagetek-sl150-modular-tape-library/slofs/library-support-lto9-tape-calibration.html">https://docs.oracle.com/en/storage/tape-storage/storagetek-sl150-modular-tape-library/slofs/library-support-lto9-tape-calibration.html</a>&gt;</p> <p>"Overland Tandberg NEO XL-Series LTO-9 New Media Initialization Technical Brief" &lt;<a href="https://overlandtandberg.atlassian.net/wiki/pages/viewpageattachments.action?pagelD=117637233&amp;preview=%2F117637233%2F1481834497%2FNEO%20XL-Series%20LTO-9%20New%20Media%20Initializa">https://overlandtandberg.atlassian.net/wiki/pages/viewpageattachments.action?pagelD=117637233&amp;preview=%2F117637233%2F1481834497%2FNEO%20XL-Series%20LTO-9%20New%20Media%20Initializa</a>&gt;</p> <p>"Quantum LTO-9 Media - Frequently Asked Questions (FAQ)" &lt;<a href="https://www.quantum.com/globalassets/products/tape-storage-new/lto-9/lto-9-quantum-faq-092021.pdf">https://www.quantum.com/globalassets/products/tape-storage-new/lto-9/lto-9-quantum-faq-092021.pdf</a>&gt;</p> <p>"Spectra Logic - LTO-9 Initialization for Media / LTO-9 Certified Media" &lt;<a href="https://spectralogic.com/features/lto-9/">https://spectralogic.com/features/lto-9/</a>&gt;</p>
Operating system support dropped	<p>1. <b>CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</b></p> <p>2. <b>Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</b></p> <p>3. <b>Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</b></p> <p>4. <b>SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</b></p> <p>5. <b>SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</b></p> <p>6. <b>Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</b></p>

## Tape Drives - Attributes

The following table lists attributes supported with Tape Drives and indicates the NetBackup version (8.2 or later) at which that attribute was first supported.

Attribute	Abbreviation	NetBackup Release Supported
SCSI Reservation	SResv	8.2
SCSI Persistent Reservation	SPR	8.2
Write Once, Read Many	WORM	8.2
NetBackup Encryption Key Management Service	KMS	8.2
Append-only mode	Append	8.2

# 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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	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 <a href="#">[1]</a>	No
PowerVault LTO-8 FH - Fibre Channel	IBM~~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-9 - Fibre Channel <a href="#">[2]</a>	IBM~~~~~ULTRIUM-HH9	KMS, SResv, SPR	Yes <a href="#">[3]</a>	Yes <a href="#">[3]</a>
PowerVault LTO-9 - SAS <a href="#">[2]</a>	IBM~~~~~ULTRIUM-HH9	KMS	Yes <a href="#">[3]</a>	Yes <a href="#">[3]</a>
PowerVault LTO5-140 - SAS	IBM~~~~~ULTRIUM-HH5	KMS, WORM	Yes <a href="#">[1]</a>	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 2008 x64	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
PowerVault LTO-6 - Fibre Channel	IBM~~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
PowerVault LTO-6 - SAS	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15

## Dell EMC - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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
PowerVault LTO-6 HH - Fibre Channel	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-7 - Fibre Channel	IBM~~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-7 - SAS	IBM~~~~~ULTRIUM-HH7	KMS, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
PowerVault LTO-7 FH FC - Fibre Channel	IBM~~~~~ULTRIUM-TD7	Append, KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
PowerVault LTO-8 - Fibre Channel	IBM~~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-8 - SAS	IBM~~~~~ULTRIUM-HH8	KMS, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-8 FH - Fibre Channel	IBM~~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-9 - Fibre Channel <a href="#">[1]</a>	IBM~~~~~ULTRIUM-HH9	KMS, SResv, SPR	No	No	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO-9 - SAS <a href="#">[1]</a>	IBM~~~~~ULTRIUM-HH9	KMS	No	No	Datacenter	Datacenter	7, 8	12, 15
PowerVault LTO4 HH - SAS	IBM~~~~~ULT3580-HH4		No	No	No	No	No	12
PowerVault LTO4-120 - SAS <a href="#">[2]</a>	IBM~~~~~ULTRIUM-TD4	WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
PowerVault LTO4-120HH - SAS <a href="#">[2]</a>	IBM~~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	No	No	6	11
PowerVault LTO5 HH - SAS	IBM~~~~~ULT3580-HH5		No	No	No	No	No	12
PowerVault LTO5-140 - SAS	IBM~~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
PowerVault LTO5-140 FH - Fibre Channel	IBM~~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 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.



## Dell EMC - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
PowerVault LTO-6 - Fibre Channel	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO-6 - SAS	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO-6 HH - Fibre Channel	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO-7 - Fibre Channel	IBM~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO-7 - SAS	IBM~~~~ULTRIUM-HH7	KMS, WORM	10, 11	10, 11
PowerVault LTO-7 FH FC - Fibre Channel	IBM~~~~ULTRIUM-TD7	Append, KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO-8 - Fibre Channel	IBM~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO-8 - SAS	IBM~~~~ULTRIUM-HH8	KMS, WORM	10, 11	10, 11
PowerVault LTO-8 FH - Fibre Channel	IBM~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO4-120HH - SAS <a href="#">[1]</a>	IBM~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	10, 11	10, 11
PowerVault LTO5-140 - SAS	IBM~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	10, 11	10, 11

1. 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	Yes [2]	Yes [2]
Ultrium 30750 LTO8 - SAS	HPE^Ultrium^8-SCSI	KMS	Yes [1] [2]	Yes [2]
Ultrium 45000 LTO9 - Fibre Channel [3]	HPE^Ultrium^9-SCSI	KMS, SResv, SPR	Yes [4]	Yes [4]
Ultrium 45000 LTO9 - SAS [3]	HPE^Ultrium^9-SCSI	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.

# Hewlett Packard Enterprise - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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
Ultrium 920 LTO3 - SAS (Retiring soon)	HP^~~~~Ultrium^3-SCSI		No	No	No	No	6	11
Ultrium 920 LTO3 - SCSI (Retiring soon)	HP^~~~~Ultrium^3-SCSI		Enterprise Edition	No	No	No	6	No
Ultrium 1760 LTO4 - Fibre Channel	HP^~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 1760 LTO4 - SAS	HP^~~~~Ultrium^4-SCSI		Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 1760 LTO4 - SCSI (Retiring soon)	HP^~~~~Ultrium^4-SCSI		Enterprise Edition	No	No	No	6	11
Ultrium 1840 LTO4 - Fibre Channel	HP^~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 1840 LTO4 - SAS	HP^~~~~Ultrium^4-SCSI		Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 1840 LTO4 - SCSI (Retiring soon)	HP^~~~~Ultrium^4-SCSI		Enterprise Edition	No	No	No	6	11
Ultrium 3000 LTO5 - Fibre Channel	HP^~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 3000 LTO5 - SAS	HP^~~~~Ultrium^5-SCSI		Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 3280 LTO5 - Fibre Channel	HP^~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 3280 LTO5 - SAS	HP^~~~~Ultrium^5-SCSI	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 6250 LTO6 - Fibre Channel	HP^~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 6250 LTO6 - SAS	HP^~~~~Ultrium^6-SCSI	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 6650 LTO6 - Fibre Channel	HP^~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 6650 LTO6 - SAS	HP^~~~~Ultrium^6-SCSI	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 15000 LTO7 - Fibre Channel	HP^~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition [1]	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 15000 LTO7 - SAS	HP^~~~~Ultrium^7-SCSI	KMS, WORM	Enterprise Edition [1]	Datacenter	Datacenter	No	6, 7	11, 12

## Hewlett Packard Enterprise - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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
Ultrium 15750 LTO7 - Fibre Channel	HP^~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition [1]	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 30750 LTO8 - Fibre Channel	HPE^~~~~Ultrium^8-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition [1]	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 30750 LTO8 - SAS	HPE^~~~~Ultrium^8-SCSI	KMS	Enterprise Edition [1]	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 45000 LTO9 - Fibre Channel [2]	HPE^~~~~Ultrium^9-SCSI	KMS, SResv, SPR	No	Datacenter	Datacenter	Datacenter	7, 8	12, 15
Ultrium 45000 LTO9 - SAS [2]	HPE^~~~~Ultrium^9-SCSI	KMS	No	No	Datacenter	Datacenter	7, 8	12, 15

1. Requires Windows 2008 R2 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 .**

## Hewlett Packard Enterprise - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
Ultrium 920 LTO3 - SAS (Retiring soon)	HP^~~~~Ultrium^3-SCSI		10, 11	10, 11
Ultrium 920 LTO3 - SCSI (Retiring soon)	HP^~~~~Ultrium^3-SCSI	WORM	10	10
Ultrium 1760 LTO4 - Fibre Channel	HP^~~~~Ultrium^4-SCSI	KMS, WORM	10, 11	10, 11
Ultrium 1760 LTO4 - SAS	HP^~~~~Ultrium^4-SCSI	WORM	10, 11	10, 11
Ultrium 1760 LTO4 - SCSI (Retiring soon)	HP^~~~~Ultrium^4-SCSI	KMS, WORM	10	10
Ultrium 1840 LTO4 - Fibre Channel	HP^~~~~Ultrium^4-SCSI	SPR, WORM	10, 11	10, 11
Ultrium 1840 LTO4 - SAS	HP^~~~~Ultrium^4-SCSI	WORM	10	No
Ultrium 1840 LTO4 - SCSI (Retiring soon)	HP^~~~~Ultrium^4-SCSI	WORM	10	No
Ultrium 3000 LTO5 - Fibre Channel	HP^~~~~Ultrium^5-SCSI	KMS, WORM	10, 11	10, 11
Ultrium 3000 LTO5 - SAS	HP^~~~~Ultrium^5-SCSI	KMS, SPR, WORM	10, 11	10, 11
Ultrium 3280 LTO5 - Fibre Channel	HP^~~~~Ultrium^5-SCSI	SPR, WORM	10, 11	10, 11
Ultrium 3280 LTO5 - SAS	HP^~~~~Ultrium^5-SCSI	SPR, WORM	10, 11	10, 11
Ultrium 6250 LTO6 - Fibre Channel	HP^~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 6250 LTO6 - SAS	HP^~~~~Ultrium^6-SCSI	KMS, WORM	10	10

## Hewlett Packard Enterprise - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
Ultrium 6650 LTO6 - Fibre Channel	HP^~~~~Ultrium^6-SCSI		10, 11	10, 11
Ultrium 6650 LTO6 - SAS	HP^~~~~Ultrium^6-SCSI	KMS, WORM	10	10
Ultrium 15000 LTO7 - Fibre Channel	HP^~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 15000 LTO7 - SAS	HP^~~~~Ultrium^7-SCSI	KMS, WORM	10, 11	10, 11
Ultrium 15750 LTO7 - Fibre Channel	HP^~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 30750 LTO8 - Fibre Channel	HPE^~~~~Ultrium^8-SCSI	KMS, SResv, SPR	10, 11	10, 11
Ultrium 30750 LTO8 - SAS	HPE^~~~~Ultrium^8-SCSI	KMS	10, 11	10, 11

# IBM

## IBM - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
System Storage TS1030 (3588 Model F3B) Ultrium 3 - Fibre Channel ( <a href="#">Retiring soon</a> ) [1]	IBM~~~~~ULT3580-TD3	SResv, SPR, WORM	Yes	Yes
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 [2]	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 [2]	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 [2]	No
System Storage TS2280 Ultrium 8 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH8	KMS, SResv, SPR, WORM	Yes [3]	Yes [3]
System Storage TS2280 Ultrium 8 Half Height - SAS	IBM~~~~~ULT3580-HH8	KMS, WORM	Yes [2] [3]	Yes [3]
System Storage TS2290 Ultrium 9 Half Height - Fibre Channel [4]	IBM~~~~~ULT3580-HH9	KMS, SResv, SPR	Yes [5]	Yes [5]
System Storage TS2290 Ultrium 9 Half Height - SAS [4]	IBM~~~~~ULT3580-HH9	KMS	Yes [5]	Yes [5]
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 [3]	Yes [3]
System Storage TS2390 Ultrium 9 - Fibre Channel [4]	IBM~~~~~ULT3580-TD9	KMS, SResv, SPR, WORM	Yes [5]	Yes [5]

## IBM - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
TotalStorage 3580 Ultrium 3 - Fibre Channel <a href="#">(Retiring soon)</a> [1]	IBM~~~~~ULT3580-TD3	SResv, SPR, WORM	Yes	Yes
Ultrium 3 - Fibre Channel <a href="#">(Retiring soon)</a> [1]	IBM~~~~~ULTRIUM-TD3	SResv, SPR, WORM	Yes	Yes
Ultrium 4 - Fibre Channel	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 5 - Fibre Channel	IBM~~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 5 - SAS	IBM~~~~~ULTRIUM-TD5	KMS, WORM	Yes <a href="#">[2]</a>	No
Ultrium 5 Half Height - SAS	IBM~~~~~ULTRIUM-HH5	KMS, WORM	Yes <a href="#">[2]</a>	No
Ultrium 6 - Fibre Channel	IBM~~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6 - SAS	IBM~~~~~ULTRIUM-TD6	KMS, WORM	Yes <a href="#">[2]</a>	No
Ultrium 6 Half Height - SAS	IBM~~~~~ULTRIUM-HH6	KMS, WORM	Yes <a href="#">[2]</a>	No
Ultrium 7 - Fibre Channel	IBM~~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 7 - SAS	IBM~~~~~ULTRIUM-TD7	KMS, WORM	Yes <a href="#">[2]</a>	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 <a href="#">[2]</a>	No
Ultrium 8 - Fibre Channel	IBM~~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	Yes <a href="#">[3]</a>	Yes <a href="#">[3]</a>
Ultrium 8 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	Yes <a href="#">[3]</a>	Yes <a href="#">[3]</a>
Ultrium 8 Half Height - SAS	IBM~~~~~ULTRIUM-HH8	KMS, WORM	Yes <a href="#">[2]</a> <a href="#">[3]</a>	Yes <a href="#">[3]</a>
Ultrium 9 - Fibre Channel <a href="#">[4]</a>	IBM~~~~~ULTRIUM-TD9	KMS, SResv, SPR, WORM	Yes <a href="#">[5]</a>	Yes <a href="#">[5]</a>
Ultrium 9 - SAS <a href="#">[4]</a>	IBM~~~~~ULTRIUM-TD9	KMS	Yes <a href="#">[5]</a>	Yes <a href="#">[5]</a>
Ultrium 9 Half Height - Fibre Channel <a href="#">[4]</a>	IBM~~~~~ULTRIUM-HH9	KMS, SResv, SPR	Yes <a href="#">[5]</a>	Yes <a href="#">[5]</a>
Ultrium 9 Half Height - SAS <a href="#">[4]</a>	IBM~~~~~ULTRIUM-HH9	KMS	Yes <a href="#">[5]</a>	Yes <a href="#">[5]</a>

1. 4Gb Fibre Channel supported.
2. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.
3. Requires NetBackup Appliance version 3.1 or later with NetBackup Appliance cloud configuration and device mappings updates RPM version 1.0.2 or later.
4. **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](#) .**
5. 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 2008 x64	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 TS1030 (3588 Model F3B) Ultrium 3 - Fibre Channel <a href="#">(Retiring soon)</a> [1]	IBM^ULT3580-TD3		Enterprise Edition	No	No	No	6	11
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM^ULT3580-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM^ULT3580-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM^ULT3580-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
System Storage TS1070 (3588 Model F7A) Ultrium 7 - Fibre Channel	IBM^ULT3580-TD7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM^03592E05	SResv, SPR, WORM	Enterprise Edition	No	No	No	6, 7	11, 12
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM^03592E06	SResv, WORM	Enterprise Edition	No	No	No	6, 7	11, 12
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM^03592E07	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM^03592E08	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS1155 (3592 Model 55F) - Fibre Channel	IBM^0359255F	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS1160 (3592 Model 60F) - Fibre Channel	IBM^0359260F	KMS, SResv, SPR, WORM	No	No	Datacenter	Datacenter	6, 7	12, 15
System Storage TS2230 Ultrium 3 Half Height - SAS <a href="#">(Retiring soon)</a>	IBM^ULT3580-HH3		Enterprise Edition	No	No	No	6	11
System Storage TS2230 Ultrium 3 Half Height - SCSI <a href="#">(Retiring soon)</a>	IBM^ULT3580-HH3		Enterprise Edition	No	No	No	6	11
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM^ULT3580-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS2240 Ultrium 4 Half Height - SAS	IBM^ULT3580-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM^ULT3580-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM^ULT3580-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM^ULT3580-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15



## IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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 TS2260 Ultrium 6 Half Height - SAS	IBM^ULT3580-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7, 8	11, 12
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM^ULT3580-HH7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM^ULT3580-HH7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	No	6, 7, 8	11, 12
System Storage TS2280 Ultrium 8 Half Height - Fibre Channel	IBM^ULT3580-HH8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	15
System Storage TS2280 Ultrium 8 Half Height - SAS	IBM^ULT3580-HH8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	No	6, 7, 8	No
System Storage TS2290 Ultrium 9 Half Height - Fibre Channel <a href="#">[2]</a>	IBM^ULT3580-HH9	KMS, SResv, SPR, WORM	No	No	Datacenter	Datacenter	7, 8	12, 15
System Storage TS2290 Ultrium 9 Half Height - SAS <a href="#">[2]</a>	IBM^ULT3580-HH9	KMS	No	No	Datacenter	Datacenter	7, 8	12, 15
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM^ULT3580-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS2340 Ultrium 4 - SAS	IBM^ULT3580-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
System Storage TS2340 Ultrium 4 - SCSI <a href="#">(Retiring soon)</a>	IBM^ULT3580-TD4		Enterprise Edition	No	No	No	6	11
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM^ULT3580-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
System Storage TS2350 Ultrium 5 - SAS	IBM^ULT3580-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM^ULT3580-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
System Storage TS2360 Ultrium 6 - SAS	IBM^ULT3580-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7, 8	11, 12
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM^ULT3580-TD7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
System Storage TS2380 Ultrium 8 - Fibre Channel	IBM^ULT3580-TD8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
System Storage TS2390 Ultrium 9 - Fibre Channel <a href="#">[2]</a>	IBM^ULT3580-TD9	KMS, SResv, SPR, WORM	No	No	Datacenter	Datacenter	7, 8	12, 15
System Storage TS2390 Ultrium 9 - SAS <a href="#">[2]</a>	IBM^ULT3580-TD9	KMS	No	No	Datacenter	Datacenter	7, 8	12, 15

## IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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
TotalStorage 3580 Ultrium 3 - Fibre Channel (Retiring soon) [1]	IBM^UL3580-TD3		Enterprise Edition	No	No	No	6	11
TotalStorage 3580 Ultrium 3 - SCSI (Retiring soon)	IBM^UL3580-TD3		Enterprise Edition	No	No	No	6	11
Ultrium 3 - Fibre Channel (Retiring soon) [1]	IBM^ULTRIUM-TD3		Enterprise Edition	No	No	No	6	11
Ultrium 3 - SCSI (Retiring soon)	IBM^ULTRIUM-TD3		Enterprise Edition	No	No	No	6	11
Ultrium 3 Half Height - SAS (Retiring soon)	IBM^ULTRIUM-HH3		Enterprise Edition	No	No	No	6	11
Ultrium 3 Half Height - SCSI (Retiring soon)	IBM^ULTRIUM-HH3		Enterprise Edition	No	No	No	6	11
Ultrium 4 (U160) - SCSI (Retiring soon)	IBM^ULTRIUM-TD4		Enterprise Edition	No	No	No	6	11
Ultrium 4 - Fibre Channel	IBM^ULTRIUM-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 4 - SAS	IBM^ULTRIUM-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 4 Half Height - Fibre Channel	IBM^ULTRIUM-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 4 Half Height - SAS	IBM^ULTRIUM-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 5 - Fibre Channel	IBM^ULTRIUM-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 5 - SAS	IBM^ULTRIUM-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 5 Half Height - Fibre Channel	IBM^ULTRIUM-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
Ultrium 5 Half Height - SAS	IBM^ULTRIUM-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 6 - Fibre Channel	IBM^ULTRIUM-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 6 - SAS	IBM^ULTRIUM-TD6	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7, 8	11, 12
Ultrium 6 Half Height - Fibre Channel	IBM^ULTRIUM-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15

## IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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
Ultrium 6 Half Height - SAS	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7, 8	11, 12
Ultrium 7 - Fibre Channel	IBM~~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 7 - SAS	IBM~~~~~ULTRIUM-TD7	KMS, WORM	No	Datacenter	Datacenter	No	6, 7, 8	11, 12
Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 7 Half Height - SAS	IBM~~~~~ULTRIUM-HH7	KMS, WORM	No	Datacenter	Datacenter	No	6, 7, 8	11, 12
Ultrium 8 - Fibre Channel	IBM~~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	11, 12, 15
Ultrium 8 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	Datacenter	6, 7, 8	15
Ultrium 8 Half Height - SAS	IBM~~~~~ULTRIUM-HH8	KMS, WORM	No	Datacenter	Datacenter	No	6, 7, 8	No
Ultrium 9 - Fibre Channel <a href="#">[2]</a>	IBM~~~~~ULTRIUM-TD9	KMS, SResv, SPR, WORM	No	No	Datacenter	Datacenter	7, 8	12, 15
Ultrium 9 - SAS <a href="#">[2]</a>	IBM~~~~~ULTRIUM-TD9	KMS	No	No	Datacenter	Datacenter	7, 8	12, 15
Ultrium 9 Half Height - Fibre Channel <a href="#">[2]</a>	IBM~~~~~ULTRIUM-HH9	KMS, SResv, SPR, WORM	No	No	Datacenter	Datacenter	7, 8	12, 15
Ultrium 9 Half Height - SAS <a href="#">[2]</a>	IBM~~~~~ULTRIUM-HH9	KMS	No	No	Datacenter	Datacenter	7, 8	12, 15

1. 4Gb Fibre Channel supported.

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 .**

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### 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.

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## IBM - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
System Storage TS1030 (3588 Model F3B) Ultrium 3 - Fibre Channel <a href="#">(Retiring soon)</a> [1]	IBM~~~~~ULT3580-TD3	SPR, WORM	10, 11	10, 11
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS1070 (3588 Model F7A) Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM~~~~~03592E05	SPR, WORM	10, 11	10, 11
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM~~~~~03592E06		10, 11	10, 11
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM~~~~~03592E07	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM~~~~~03592E08	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2230 Ultrium 3 Half Height - SAS <a href="#">(Retiring soon)</a>	IBM~~~~~ULT3580-HH3	WORM	10, 11	10, 11
System Storage TS2230 Ultrium 3 Half Height - SCSI <a href="#">(Retiring soon)</a>	IBM~~~~~ULT3580-HH3	WORM	10	10
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2240 Ultrium 4 Half Height - SAS	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2260 Ultrium 6 Half Height - SAS	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	10	10, 11
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH7	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM~~~~~ULT3580-HH7		10, 11	10, 11
System Storage TS2280 Ultrium 8 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH8	KMS, SResv, SPR, WORM	10, 11	No
System Storage TS2280 Ultrium 8 Half Height - SAS	IBM~~~~~ULT3580-HH8	KMS, WORM	11	No
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2340 Ultrium 4 - SAS	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	10, 11	11
System Storage TS2340 Ultrium 4 - SCSI <a href="#">(Retiring soon)</a>	IBM~~~~~ULT3580-TD4	WORM	10	10
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2350 Ultrium 5 - SAS	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2360 Ultrium 6 - SAS	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	10, 11	10
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	10, 11	10, 11
System Storage TS2380 Ultrium 8 - Fibre Channel	IBM~~~~~ULT3580-TD8	KMS, SResv, SPR, WORM	11	11

# IBM - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
TotalStorage 3580 Ultrium 3 - Fibre Channel (Retiring soon) [1]	IBM~~~~~ULT3580-TD3	SPR, WORM	10, 11	10, 11
TotalStorage 3580 Ultrium 3 - SCSI (Retiring soon)	IBM~~~~~ULT3580-TD3	WORM	10	10
Ultrium 3 - Fibre Channel (Retiring soon) [1]	IBM~~~~~ULTRIUM-TD3	SPR, WORM	10, 11	10, 11
Ultrium 3 - SCSI (Retiring soon)	IBM~~~~~ULTRIUM-TD3	WORM	10	10
Ultrium 3 Half Height - SAS (Retiring soon)	IBM~~~~~ULTRIUM-HH3	WORM	10, 11	10, 11
Ultrium 3 Half Height - SCSI (Retiring soon)	IBM~~~~~ULTRIUM-HH3	WORM	10	10
Ultrium 4 (U160) - SCSI (Retiring soon)	IBM~~~~~ULTRIUM-TD4	WORM	10	10
Ultrium 4 - Fibre Channel	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 4 - SAS	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	10	No
Ultrium 4 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 4 Half Height - SAS	IBM~~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	10, 11	No
Ultrium 5 - Fibre Channel	IBM~~~~~ULTRIUM-TD5		10, 11	10, 11
Ultrium 5 - SAS	IBM~~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 5 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 5 Half Height - SAS	IBM~~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 6 - Fibre Channel	IBM~~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 6 - SAS	IBM~~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	10, 11	10
Ultrium 6 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 6 Half Height - SAS	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 7 - Fibre Channel	IBM~~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 7 - SAS	IBM~~~~~ULTRIUM-TD7		10, 11	10, 11
Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	10, 11	10, 11
Ultrium 7 Half Height - SAS	IBM~~~~~ULTRIUM-HH7		10, 11	10, 11
Ultrium 8 - Fibre Channel	IBM~~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	11	11
Ultrium 8 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	10, 11	No
Ultrium 8 Half Height - SAS	IBM~~~~~ULTRIUM-HH8	KMS, WORM	11	No

1. 4Gb Fibre Channel supported.

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 <a href="#">[1]</a>	STK^T10000C	KMS, SResv, SPR, WORM	Yes	Yes
StorageTek T10000D - Fibre Channel <a href="#">[1]</a>	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 2008 x64	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	Enterprise Edition	No	No	No	6, 7	11, 12
StorageTek T10000B - Fibre Channel	STK^T10000B	SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
StorageTek T10000C - Fibre Channel <a href="#">[1]</a>	STK^T10000C	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
StorageTek T10000D - Fibre Channel <a href="#">[1]</a>	STK^T10000D	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	Datacenter	6, 7	11, 12, 15
VDrive - Fibre Channel	"STK^VDRIVE	SResv	Enterprise Edition	Datacenter	No	No	7	No

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

## Oracle - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
StorageTek T9840D - Fibre Channel	STK^T9840D		10, 11	10, 11
StorageTek T10000B - Fibre Channel	STK^T10000B		10, 11	10, 11
StorageTek T10000C - Fibre Channel <a href="#">[1]</a>	STK^T10000C	KMS, SPR	10, 11	10, 11
StorageTek T10000D - Fibre Channel <a href="#">[1]</a>	STK^T10000D	KMS, SResv, SPR	10, 11	10, 11
VDrive - Fibre Channel	"STK^VDRIVE	SResv	10, 11	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-3 HH - Fibre Channel (Retiring soon)	QUANTUM^ULTRIUM^3	SResv	Yes	Yes
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 2008 x64	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
LTO-3 - SCSI (Retiring soon)	CERTANCEULTRIUM^3		Enterprise Edition	No	No	No	6	11
LTO-3 HH - Fibre Channel (Retiring soon)	QUANTUM^ULTRIUM^3		Enterprise Edition	No	No	No	6	No
LTO-3 HH - SAS (Retiring soon)	QUANTUM^ULTRIUM^3		Enterprise Edition	No	No	No	6	11
LTO-3 HH - SCSI (Retiring soon)	QUANTUM^ULTRIUM^3		Enterprise Edition	No	No	No	6	11
LTO-4 HH - SAS	QUANTUM^ULTRIUM^4	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	No	11
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12



## Quantum - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	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
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 4 HH - SAS	QUANTUM^ULTRIUM-HH4	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	No	No
Ultrium 5 HH - SAS	QUANTUM^ULTRIUM-HH5	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	No	No
Ultrium 6 HH - SAS	QUANTUM^ULTRIUM-HH6	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	No	No
Ultrium 7 HH - SAS	QUANTUM^ULTRIUM-HH7	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	No	No
Ultrium 8 HH - SAS	QUANTUM^ULTRIUM-HH8	KMS, WORM	No	Datacenter	Datacenter	No	6, 7	11, 12
Ultrium 9 HH - SAS <sup>[1]</sup>	QUANTUM^ULTRIUM-HH9	KMS	No	No	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 .**

## Quantum - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
LTO-3 - SCSI (Retiring soon)	CERTANCEULTRIUM^3		10	10
LTO-3 HH - Fibre Channel (Retiring soon)	QUANTUM^ULTRIUM^3		10	No
LTO-3 HH - SCSI (Retiring soon)	QUANTUM^ULTRIUM^3		10	10
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5	SPR, WORM	10, 11	10, 11
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5	SPR, WORM	10, 11	10, 11
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6	KMS, WORM	10, 11	10, 11
Ultrium 8 HH - SAS	QUANTUM^ULTRIUM-HH8	KMS, WORM	10, 11	10, 11

# Tandberg

## Tandberg - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, WORM	Yes <a href="#">[1]</a>
HH LTO 6 - SAS	TANDBERGLTO-6^HH	KMS, WORM	Yes <a href="#">[1]</a>

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 2008 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HH LTO 3 - SAS <a href="#">(Retiring soon)</a>	TANDBERGLTO-3^HH		Enterprise Edition	No	6	No
HH LTO 4 - SAS	TANDBERGLTO-4^HH		Enterprise Edition	Datacenter	6, 7	11, 12
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, WORM	Enterprise Edition	Datacenter	6, 7	11, 12
HH LTO 6 - SAS	TANDBERGLTO-6^HH	KMS, WORM	No	Datacenter	6, 7	11, 12

## Tandberg - Support with UNIX

Device - Interface	Inquiry String	Attributes	Solaris on SPARC	Solaris on x86-64
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, SPR, WORM	10	10

# 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 8.0 - 8.x.x Operating System Software Compatibility List"](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL) <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_OSSCL](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL)> .

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](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

Dell EMC

Fujitsu

Huawei

Lenovo

NetApp

Stratus Technologies

Dell EMC Data Domain

Hewlett Packard Enterprise

IBM

Mirapoint

Nexenta

Dell EMC Isilon

Hitachi Vantara

Imation

NEC

Oracle

## Dell EMC

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Celerra series	DART 5.1, DART 5.2, DART 5.3, DART 5.4, DART 5.5, DART 5.6, DART 6.0	Direct-attach, Remote, 3-way	No	No	Yes	For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.  TYPE=tar backups are not recommended with this device. For more information, see <a href="http://www.veritas.com/docs/100031122">Veritas Knowledge base article 100031122 &lt;http://www.veritas.com/docs/100031122&gt;</a>
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	"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.  All models in the Dell EMC PowerMax Series are supported (VMAX AFA, PowerMax 2000, PowerMax 8000).  For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.  TYPE=tar backups are not recommended with this device. For more information, see <a href="http://www.veritas.com/docs/100031122">Veritas Knowledge base article 100031122 &lt;http://www.veritas.com/docs/100031122&gt;</a>
PowerStore series	PowerStore OS 1.0, PowerStore OS 2.0, PowerStore OS 2.1, PowerStore OS 3.0, PowerStore OS 3.2	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	Direct-attach, Remote, 3-way	Yes	Yes	Yes	Direct-attach support requires Unity Operating Environment version 4.4.1.1538211294 or later.  For a list of compatible tape drives and libraries, see Dell EMC's device support matrices.  SCSI reservations must be enabled manually. For details, see <a href="https://www.veritas.com/docs/100016340">NetBackup for NDMP: NAS appliance information &lt;https://www.veritas.com/docs/100016340&gt;</a> .  Shared Storage Option (SSO) support requires Unity Operating Environment version 4.4.1.1538211294 or later.

## 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 <a href="http://www.veritas.com/docs/100031122">Veritas Knowledge base article 100031122 &lt;http://www.veritas.com/docs/100031122&gt;</a></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 <a href="http://www.veritas.com/docs/100031122">Veritas Knowledge base article 100031122 &lt;http://www.veritas.com/docs/100031122&gt;</a></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 <a href="http://www.veritas.com/docs/100031122">Veritas Knowledge base article 100031122 &lt;http://www.veritas.com/docs/100031122&gt;</a></p>
VNX series	VNX File 7.0, 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 <a href="http://www.veritas.com/docs/100031122">Veritas Knowledge base article 100031122 &lt;http://www.veritas.com/docs/100031122&gt;</a></p>

## Dell EMC Data Domain

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Appliance series	DDOS 5.0, DDOS 5.1, DDOS 5.3, 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	Direct-attach, Remote, 3-way	Yes	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>For information on OneFS version compatibility with PowerScale models, see the vendor's website.</p> <p>Supported with Accelerator with NDMP with NetBackup 8.1 or later.</p> <p>The Dell EMC Isilon A100 Backup Accelerator is supported with this device.</p>
Scale-Out NAS	OneFS 7.1, OneFS 7.2, OneFS 8.0, OneFS 8.1, OneFS 8.2, OneFS 9.0	Direct-attach, Remote, 3-way	Yes	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>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.</p> <p>IPv6 is supported with OneFS version 8.0 and later.</p> <p>Supported with Accelerator with NDMP with NetBackup 8.1 or later.</p> <p>The Dell EMC Isilon A100 Backup Accelerator is supported with this device.</p> <p>The Scale-Out NAS line is now known as PowerScale OneFS.</p> <p>The Scale-Out NAS line was previously known as IQ Storage.</p>

## 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	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, AX2100, AX2200, AX4100) are supported.</p> <p>FlexGroup volumes are supported with ONTAP v9.7P12 and later.</p> <p>Supported with Accelerator with NDMP.</p>
ETERNUS HX series	ONTAP v9.7, ONTAP v9.8, ONTAP v9.9, ONTAP v9.10, ONTAP v9.11	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.</p>

## Hewlett Packard Enterprise

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
X9000 Network Storage Systems series	IBRIX_X9000 5.5, IBRIX_X9000 6.0	Direct-attach, Remote, 3-way	No	No	No	All models in the Hewlett Packard Enterprise X9000 Network Storage Systems family are supported (X9300, X9320, X9720).

## 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.

## Hitachi Vantara

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
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>
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	
OceanStor Series	OS 1.0	Direct-attach, Remote, 3-way	No	No	Yes	<p>All models in the OceanStor V3 and V5 Converged Storage Series are supported (2600 V3, 2600F V3, 5300 V3, 5300F V3, 5300 V5, 5300F V5, 5500 V3, 5500F V3, 5500 V5, 5500F V5, 5600 V3, 5600F V3, 5600 V5, 5600F V5, 5800 V3, 5800F V3, 5800 V5, 5800F V5, 6800 V3, 6800F V3, 6800 V5, 6800F V5, 6900 V3, 6900F V3, 18500 V3, 18500F V3, 18500 V5, 18500F V5, 18800 V3, 18800F V3, 18800 V5, 18800F V5).</p>



## IBM

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Scale Out Network Attached Storage (SONAS)	IBM OS 1.2, IBM OS 1.4, IBM OS 1.5	Remote, 3-way	No	No	No	Version 1.2 requires PTF2 or later.
Spectrum Virtualize series	IBM OS 1.5	Remote, 3-way	No	No	No	
Storwize series	IBM OS 1.5	Remote, 3-way	No	No	No	
System Storage N series	Data ONTAP 7.1, Data ONTAP 7.2, Data ONTAP 7.3, Data ONTAP 8.0 (7-Mode), Data ONTAP 8.0 (Cluster Mode), Data ONTAP 8.1 (7-Mode), Data ONTAP 8.1 (Cluster Mode)	Direct-attach, Remote, 3-way	No	No	Yes	<p>"Incremental forever" backups are supported with this device via a combination of the BASE_DATE and REPLICATE environment variables. For more information, see the device vendor's documentation.</p> <p>Data ONTAP v8.2 (7-mode) supports MultiStore (vFiler) with Remote and 3-way.</p> <p>Data ONTAP version 8.x (7-mode) supports NetBackup Advanced Client NAS Snapshot.</p>

## Imation

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Nexsan NST2000	NestOS 3.1, NestOS 3.2, Unity 2.0	Remote, 3-way	No	No	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST4000	NestOS 3.1, NestOS 3.2, Unity 2.0	Remote, 3-way	No	No	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST5000	NestOS 2.1, NestOS 3.1, 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 3.1, 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	

## Mirapoint

Device	Software	Connection Method	IPv6	NetBackup Stream Handler	NetBackup Shared Storage Option	Notes
Message Server series	MOS 4.0, MOS 4.1	Direct-attach, Remote, 3-way	No	No	No	Direct Access Restore and Directory Direct Access Restore are not supported with this solution.  Remote, 3-way: Supports all NetBackup-supported drives and libraries. Direct-attach: See Mirapoint's device support matrices for a list of compatible tape drives and libraries. Tape drives used with the Direct-attach connection method must be dedicated to the NDMP device.
RazorGate series	MOS 4.0, MOS 4.1	Direct-attach, Remote, 3-way	No	No	No	Direct Access Restore and Directory Direct Access Restore are not supported with this solution.  Remote, 3-way: Supports all NetBackup-supported drives and libraries. Direct-attach: See Mirapoint's device support matrices for a list of compatible tape drives and libraries. Tape drives used with the Direct-attach connection method must be dedicated to the NDMP device.

## 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	
NV series	SC-LX 5.1, SC-LX 6.1, SC-LX 6.2	Direct-attach, Remote, 3-way	No	No	No	Known issue with SC-LX 6.1: NV Series may not retain the original user id/group id of restored softlink files. This has been fixed in SC-LX 6.2.

## 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	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.</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
Axiom series	Pillar OS 2.3, Pillar OS 3.2, Pillar OS 4.0	Direct-attach, Remote	No	No	No	Tape drives used with the Direct-attach connection method must be dedicated to the NDMP device.  Version 2.3 does not support Directory Direct Access Restore or NetBackup Shared Storage Option.
Solaris Server (SPARC and x86-64)	Solaris 11	Direct-attach, Remote, 3-way	No	No	Yes	
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 17.0, 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"> <li>- Microsoft Azure StorSimple: <a href="https://docs.microsoft.com/en-us/azure/storsimple/storsimple-configure-backuptarget-netbackup">"Configure StorSimple with Veritas NetBackup"</a> &lt;<a href="https://docs.microsoft.com/en-us/azure/storsimple/storsimple-configure-backuptarget-netbackup">https://docs.microsoft.com/en-us/azure/storsimple/storsimple-configure-backuptarget-netbackup</a>&gt;</li> </ul> <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"> <li>- Pure Storage FlashBlade</li> <li>- Violin Systems Flash Storage Platform</li> </ul> <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 <a href="https://sort.veritas.com">"Veritas Services and Operations Readiness Tools (SORT)"</a> &lt;<a href="https://sort.veritas.com">https://sort.veritas.com</a>&gt; .</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](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) and PureDisk 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"><li>- Requires Purity//FB 3.0.2 or later running NFS version 3.</li><li>- Requires Flex 5340 Appliance version 1.3 or later.</li><li>- Requires Flex NetBackup Images version 8.2 or later.</li><li>- Requires Flex Add-Ons for NetBackup 8.2: "<a href="https://www.veritas.com/content/support/en_US/downloads/update.UPD171508">NetBackup 8.2 Hotfix - MSDP EEB Bundle (Etrack 3981133)</a>" &lt;<a href="https://www.veritas.com/content/support/en_US/downloads/update.UPD171508">https://www.veritas.com/content/support/en_US/downloads/update.UPD171508</a>&gt; and Flex add-on netfs.</li><li>- Maximum aggregate size of MSDP pool supported with this device is 250 TB.</li><li>- NetBackup Client-side deduplication is supported.</li><li>- NetBackup Accelerator (for files and folders) is supported.</li><li>- NetBackup Auto Image Replication (A.I.R.) is supported.</li><li>- Not supported with Veritas Instant Access, Instant Recovery, and Universal Shares.</li></ul>

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](https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/index)> .

## PureDisk

When a PureDisk storage pool is configured, a NetBackup 5000 Series Appliance hosts the storage. For more information, see the "[Configuring a storage server for a PureDisk Deduplication Pool](https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v73198313-136046435)" <[https://www.veritas.com/content/support/en\\_US/doc/25074086-136046435-0/v73198313-136046435](https://www.veritas.com/content/support/en_US/doc/25074086-136046435-0/v73198313-136046435)> .

# 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 8.0 - 8.x.x Operating System Software Compatibility List"](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL) <[https://www.veritas.com/content/support/en\\_US/doc/NB\\_80\\_OSSCL](https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL)> .

## Contents

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

## 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	
Hewlett Packard Enterprise	Ultrium 15750 LTO7	
Hewlett Packard Enterprise	Ultrium 30750 LTO8	



## NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
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.
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.

## NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
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.

## External KMS - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"><li>1. EKMS is supported with AdvancedDisk, Cloud, MSDP, MSDP Direct Cloud Tiering, and Tape storage solutions supported by NetBackup.</li><li>2. The EKMS server must be KMIP-based. Supported KMIP versions are 1.0, 1.1, 1.2, 1.3, 1.4 and 2.0.</li><li>3. NetBackup uses Symmetric Key objects stored on the EKMS server for data encryption.</li><li>4. The EKMS server must use PEM formatted certificate-based authentication.</li><li>5. The NetBackup primary server should be able to establish an outbound connection to the KMIP port on the EKMS server.</li></ol>

## 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
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
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

## External KMS - Supported Devices

Manufacturer	Model	EKMS server software version	KMIP version supported
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

## Single Sign-On using SAML

NetBackup 8.3 and later 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/138617403-138789759-0/v140915791-138789759) <[https://www.veritas.com/content/support/en\\_US/doc/138617403-138789759-0/v140915791-138789759](https://www.veritas.com/content/support/en_US/doc/138617403-138789759-0/v140915791-138789759)> in the NetBackup Web UI Administrator's Guide.

## Single Sign-On using SAML - Considerations

Subject	Notes
Configuration considerations	<ol style="list-style-type: none"><li>1. To use SSO, you must have a SAML 2.0 compliant identity provider configured in your environment.</li><li>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.</li><li>3. Configuration of the Identity Provider (IDP) requires the NetBackup APIs or the NetBackup command nbidpcmd.</li><li>4. SAML users cannot use the APIs. API keys are used to authenticate a user and therefore cannot be used with a SAML-authenticated user.</li><li>5. Global logout is not supported.</li></ol>

## Single Sign-On with SAML - Supported Solutions

Identity Provider	Link to configuration information
ADFS	< <a href="https://www.veritas.com/support/en_US/article.100047744">https://www.veritas.com/support/en_US/article.100047744</a> >
Microsoft Azure	< <a href="https://www.veritas.com/support/en_US/article.100047748">https://www.veritas.com/support/en_US/article.100047748</a> >
Okta	< <a href="https://www.veritas.com/support/en_US/article.100047745">https://www.veritas.com/support/en_US/article.100047745</a> >
PingFederate	< <a href="https://www.veritas.com/support/en_US/article.100047746">https://www.veritas.com/support/en_US/article.100047746</a> >
Shibboleth	< <a href="https://www.veritas.com/support/en_US/article.100047747">https://www.veritas.com/support/en_US/article.100047747</a> >

# 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		
<a href="#">Brocade</a>	<a href="#">Cisco Systems</a>	<a href="#">Decru</a>
<a href="#">Fujitsu</a>	<a href="#">Hewlett Packard Enterprise</a>	<a href="#">IBM</a>
<a href="#">NEC</a>	<a href="#">Quantum</a>	<a href="#">SafeNet</a>
<a href="#">Sun StorageTek</a>	<a href="#">Thales (NeoScale)</a>	

### 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.

## NEC

Model	Version	Notes
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 <[https://support.symantec.com/en\\_US/dpl.52517.html](https://support.symantec.com/en_US/dpl.52517.html)>



# 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"><li>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.</li><li>2. SAN Client is not supported over Fibre Channel over Ethernet (FCoE) using converged network adapters (CNA).</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>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"><li>- Support is limited to a maximum of one target mode Fibre Channel HBA in an M-Series server.</li><li>- Quad-port target mode Fibre Channel HBAs are not supported in an M-Series server.</li></ul></li><li>2. <b>Hitachi Vantara-branded HBAs are not supported with NetBackup SAN Client.</b></li></ol>
Operating system support dropped	<ol style="list-style-type: none"><li>1. <b>CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</b></li><li>2. <b>Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</b></li><li>3. <b>Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</b></li><li>4. <b>SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</b></li><li>5. <b>SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</b></li><li>6. <b>Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</b></li></ol>

## 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 (8.2 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 8.2 (or later) release supported	Notes
NetBackup 5200 and 5300 Series Appliance	3.3.0.1, 3.2	8.2	Supported with 8 Gb HBAs in NetBackup 5230 and 5240 Appliances.  Supported with 16 Gb HBAs in NetBackup 5240, 5250, and 53xx Appliances.
Oracle Solaris 10 on SPARC	GA or later	8.2	

Operating System	Supported Versions	Minimum NetBackup 8.2 (or later) release supported	Notes
Red Hat Enterprise Linux 6 on x86-64	Update 8	8.2	
Red Hat Enterprise Linux 7 on x86-64	GA, Update 1, Update 2, Update 3, Update 4, Update 5, Update 6	8.2	
Red Hat Enterprise Linux 7 on x86-64	Update 7	8.3	Marvell Qlogic 4 Gb HBAs (QLE2400 series) are not supported with Red Hat Enterprise Linux 7 Update 7 and later.  Marvell Qlogic QLE2692 16 Gb HBAs are supported with NetBackup 8.3.0.1 and later.
SUSE Linux Enterprise Server 11 on x86-64	SP3, SP4	8.2	<b>SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</b>
SUSE Linux Enterprise Server 12 on x86-64	GA, SP1	8.2	<b>SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</b>

## Fibre Transport Media Server - Vendor Compatibility

### Contents

<a href="#"><u>Dell EMC</u></a>	<a href="#"><u>Hewlett Packard Enterprise</u></a>	<a href="#"><u>Hitachi Vantara</u></a>
<a href="#"><u>IBM</u></a>	<a href="#"><u>Marvell QLogic</u></a>	<a href="#"><u>Oracle</u></a>
<a href="#"><u>Sun</u></a>		

# 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	6, 7	11, 12
H144C [1]	PCIe	6, 7	11, 12
QLE2560-E	PCIe	6, 7	11, 12
QLE2562-E [1]	PCIe	6, 7	11, 12

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

# 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	6, 7	11, 12
AK344A	PCIe	6, 7	11, 12
QMH2562-HP-BK	PCIe	6	11, 12
QMH2572-HP-SP	PCIe	6	11, 12

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

# 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	PCle	6, 7	11, 12
QLE2562-CK [1]	PCle	6, 7	11, 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	6, 7	11, 12
42D0510 [1]	PCle	6, 7	11, 12

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

# 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	6, 7	11, 12
QLE2690 series [2]	PCIe	7	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.

## Marvell QLogic - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
QLE2400 series	PCIe	10
QLE2500 series [1]	PCIe	10
SANblade 23xx series [2]	PCI, PCI-X, SBUS, cPCI	10
SANblade 24xx series	PCI-X, PCIe	10

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 QLA2340, QLA2342, and QLA2344 members of this family.

## 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
QLE2690 series	QLE2690, QLE2692, QLE2694, QLE2694L, QLE2694U
SANblade 23xx series	QCP2332, QCP2340, QLA2300, QLA2302, QLA2310, QLA2332, QLA2340, QLA2340C, QLA2342, QLA2344, QSB2340, QSB2342
SANblade 24xx series	QLA2440, QLA2460, QLA2462

# 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	6, 7	11, 12
SG-XPCiE2FC-QF8-N [1]	PCle	6, 7	11, 12

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

## Oracle - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
SG-XPCiE1FC-QF8-N	PCle	10
SG-XPCiE2FC-QF8-N [1]	PCle	10

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



# Sun

## Sun - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
SG-XPCI1FC-QF4	PCI	10
SG-XPCI1FC-QL2	PCI-X	10
SG-XPCI2FC-QF2 (X6768A)	PCI-X	10
SG-XPCI2FC-QF4	PCI-X	10
SG-XPCIE1FC-QF4	PCle	10
SG-XPCIE2FC-QF4	PCle	10

# 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

<a href="#">Infrastructure - Considerations</a>	<a href="#">CNAs</a>	<a href="#">HBAs</a>
<a href="#">Bridges/Routers</a>	<a href="#">Switches</a>	

## 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 <a href="#">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <p>1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</p> <p>2. 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.</p> <p>3. 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.</p> <p>4. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</p> <p>5. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</p> <p>6. 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.</p>
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.

Subject	Notes
Operating system support dropped	<p>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</p> <p>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</p> <p>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</p> <p>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</p>

# Infrastructure - CNAs Used In Testing

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<a href="#">Broadcom Emulex</a>	<a href="#">Hewlett Packard Enterprise</a>	<a href="#">Marvell QLogic</a>
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## Broadcom Emulex

### Broadcom Emulex - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64
LPe16202 (FCoE)	PCIe	Enterprise Edition
OneConnect OCe11000 series (FCoE BE3 ASIC)	PCIe	Enterprise Edition

### Broadcom Emulex - Family Membership

Device Family	Members
OneConnect OCe11000 series (FCoE BE3 ASIC)	OCe11102 (FCoE)

## Hewlett Packard Enterprise

### Hewlett Packard Enterprise - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
554FLR	PCIe	No	Datacenter	No	No
650FLB	PCIe	No	Datacenter	7	No
CN1000Q	PCIe	No	Datacenter	No	No
CN1100E	PCIe	Enterprise Edition	No	No	11

## Marvell QLogic

### Marvell QLogic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64
QLE8100 series (FCoE)	PCIe	Enterprise Edition
QLE8200 series (FCoE)	PCIe	Enterprise Edition

### Marvell QLogic - Family Membership

Device Family	Members
QLE8100 series (FCoE)	QLE8140 (FCoE), QLE8142 (FCoE), QLE8150 (FCoE), QLE8152 (FCoE)
QLE8200 series (FCoE)	QLE8240 (FCoE), QLE8242 (FCoE)

## 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 <a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">"NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"</a> &lt;<a href="https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL">https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL</a>&gt; .</p> <ol style="list-style-type: none"><li>1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.</li><li>2. 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.</li><li>3. 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.</li><li>4. Where support is shown for "Windows Server 2019 Datacenter" it also means that the other editions of Windows Server 2019 are supported.</li><li>5. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</li><li>6. 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.</li></ol>
Vendor support considerations	<ol style="list-style-type: none"><li>1. All like HBAs within a SAN should use the same firmware, BIOS and driver revision as recommended by HBA vendors.</li><li>2. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).</li></ol>

Subject	Notes
Operating system support dropped	<p>1. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>2. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>3. Solaris (all versions) on SPARC and x86-64 will not be supported as a media server with NetBackup 10.0 and later.</p> <p>4. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</p> <p>5. SUSE Linux Enterprise Server 12 GA through SP2 are not supported as a media server with NetBackup 8.3 and later.</p> <p>6. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.</p>

## Infrastructure - HBAs Used In Testing

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<u>ATTO</u>	<u>Broadcom Emulex</u>	<u>Brocade</u>
<u>Hewlett Packard Enterprise</u>	<u>Hitachi Vantara</u>	<u>JNI</u>
<u>LSI Logic</u>	<u>Marvell QLogic</u>	<u>Sun</u>

## ATTO

### ATTO - 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
FC 16Gb/s Gen 6	PCIe	Datacenter	No	6	12
FC 32Gb/s Gen 6	PCIe	No	Datacenter	No	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 2008 x64	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
LP10xxx / 105x series (Thor ASIC)	PCI, PCI-X, PCIe	Enterprise Edition	No	No	No	No	11
LP90xx / 94xx / 95x series (Centaur ASIC)	PCI, PCI-X, SBUS, cPCI	Enterprise Edition	No	No	No	6	No
LP98xx / 98x series (Pegasus ASIC)	PCI, PCI-X	Enterprise Edition	Datacenter	No	No	6, 7	11
LP1100x / 1150 series (Helios ASIC)	PCI-X	Enterprise Edition	No	No	No	6	No
LPe11xxx / 115x series (Zephyr ASIC)	PCIe	Enterprise Edition	No	No	No	6	No
LPe12xxx / 125x series (Saturn ASIC)	PCIe	Enterprise Edition	Datacenter	No	No	No	12
LPe16xxx / 15xxx series (Lancer ASIC)	PCIe	Enterprise Edition	Datacenter	No	No	6, 7	12, 15
LPe31000 / LPe32000 series (Gen 6)	PCIe	No	Datacenter	Datacenter	Datacenter	No	No
SN1000E	PCIe	No	No	No	No	7	No
SN1100E2P	PCIe	No	Datacenter	No	No	7	12

### Broadcom Emulex - Support with UNIX

Device Family	Bus Type	Solaris on SPARC	Solaris on x86-64
LP10xxx / 105x series (Thor ASIC)	PCI, PCI-X, PCIe	10	10
LP90xx / 94xx / 95x series (Centaur ASIC)	PCI, PCI-X, SBUS, cPCI	10	No
LP98xx / 98x series (Pegasus ASIC)	PCI, PCI-X	10	10
LP1100x / 1150 series (Helios ASIC)	PCI-X	10, 11	10, 11
LPe11xxx / 115x series (Zephyr ASIC)	PCIe	10, 11	10
LPe12xxx / 125x series (Saturn ASIC)	PCIe	10	10

## Broadcom Emulex - Support with UNIX

Device Family	Bus Type	Solaris on SPARC	Solaris on x86-64
LPe16xxx / 15xxx series (Lancer ASIC)	PCIe	No	10, 11
SN1100E2P	PCIe	No	11

## Broadcom Emulex - Family Membership

Device Family	Members
LP10xxx / 105x series (Thor ASIC)	LP101E, LP1050, LP1050DC, LP1050Ex, LP10000, LP10000DC, LP10000ExDC
LP90xx / 94xx / 95x series (Centaur ASIC)	LP952L, LP9000, LP9000s, LP9002C, LP9002DC, LP9002L, LP9002S, LP9402DC
LP98xx / 98x series (Pegasus ASIC)	LP982, LP9802, LP9802DC, LP9802S
LP1100x / 1150 series (Helios ASIC)	LP1150, LP11000, LP11000-M4, LP11002, LP11002-M4, LP12002-S
LPe11xxx / 115x series (Zephyr ASIC)	LPe111, LPe1105-M, LPe1150, LPe11000, LPe11002, LPe11002-E, LPe11002-S, LPe11004, LPem11002-S
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 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
42B	PCIe	Enterprise Edition	No	No	No
415	PCIe	Enterprise Edition	No	No	No
425	PCIe	Enterprise Edition	Datacenter	No	No
815	PCIe	No	No	6	No
825	PCIe	Enterprise Edition	Datacenter	6, 7	11
1860 (FC)	PCIe	No	No	7	12

## Hewlett Packard Enterprise

### Hewlett Packard Enterprise - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
42B	PCIe	Enterprise Edition	No	No	No	No
82B	PCIe	Enterprise Edition	No	No	No	11
82E	PCIe	Enterprise Edition	No	No	6	11
A7388A	PCI-X	Enterprise Edition	No	No	No	No
AH403A	PCIe	No	No	No	No	12
AJ763A	PCIe	No	Datacenter	Datacenter	No	No
AJ764A	PCIe	Enterprise Edition	No	No	No	No
FC1243	PCI-X	Enterprise Edition	No	No	No	No
FC2243 DC	PCI-X	Enterprise Edition	No	No	No	No
SN1000E	PCIe	No	Datacenter	No	No	No
SN1000Q / SN1100Q series	PCIe	Enterprise Edition	No	No	6, 7	12

### Hewlett Packard Enterprise - Support with UNIX

Device Family	Bus Type	Solaris on SPARC	Solaris on x86-64
82E	PCIe	No	11
AH400A		10, 11	No
AH401	PCIe	10	No
AH402A		10	No
FC1242SR DC	PCIe	No	10

## Hewlett Packard Enterprise - Family Membership

Device Family	Members
SN1000Q / SN1100Q series	SN1000Q, SN1100Q

## Hitachi Vantara

### Hitachi Vantara - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64
HFC040x series	PCI-X, PCIe	Enterprise Edition
HFCE080x series	PCIe	Enterprise Edition

### Hitachi Vantara - Family Membership

Device Family	Members
HFC040x series	HFC0401, HFC0401-C, HFC0402, HFC0402-C, HFC0402-E, HFC0402-M
HFCE080x series	HFCE0801, HFCE0802, HFCE0802-M, HFCE0804-M

## JNI

### JNI - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
FCE-6460	PCI	10

## LSI Logic

### LSI Logic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64
LSI7102XP-LC	PCI-X	Enterprise Edition
LSI7202XP-LC	PCI-X	Enterprise Edition
LSI7402XP-LC	PCI-X	Enterprise Edition

### LSI Logic - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
LSI7104XP-LC	PCI-X	10
LSI7202XP-LC	PCI-X	10
LSI7402XP-LC	PCI-X	10



## Marvell QLogic

### Marvell QLogic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	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
QLE236x series	PCIe	Enterprise Edition	No	No	No	6	No
QLE2400 series	PCIe	Enterprise Edition	Datacenter	No	No	No	11
QLE2500 series	PCIe	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11
QLE2600 series	PCIe	Enterprise Edition	Datacenter	No	Datacenter	7	12
QLE2670 series	PCIe	Enterprise Edition	Datacenter	Datacenter	No	6, 7	11
QLE2700 series	PCIe	No	No	No	No	No	12
QLE8300 series (FC)	PCIe	No	No	No	No	6	No
QLE10000 series	PCIe	No	No	No	No	6	No
SANblade 23xx series	PCI, PCI-X, SBUS, cPCI	Enterprise Edition	No	No	Datacenter	6	No
SANblade 24xx series	PCI-X, PCIe	Enterprise Edition	Datacenter	No	No	7	11

### Marvell QLogic - Support with UNIX

Device Family	Bus Type	Solaris on SPARC	Solaris on x86-64
QLE2400 series	PCIe	10, 11	No
QLE2500 series	PCIe	10, 11	10
SANblade 23xx series	PCI, PCI-X, SBUS, cPCI	10, 11	10
SANblade 24xx series	PCI-X, PCIe	10, 11	10

## Marvell QLogic - Family Membership

Device Family	Members
QLE236x series	QLE2360, QLE2362
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
QLE8300 series (FC)	QLE8360 (FC), QLE8362 (FC)
QLE10000 series	QLE10502, QLE10522, QLE10542
SANblade 23xx series	QCP2332, QCP2340, QLA2300, QLA2302, QLA2310, QLA2332, QLA2340, QLA2340C, QLA2342, QLA2344, QSB2340, QSB2342
SANblade 24xx series	QLA2440, QLA2460, QLA2462

## Sun

### Sun - Support with UNIX

Device Family	Bus Type	Solaris on SPARC	Solaris on x86-64
SG-XPCI1FC-EM2	PCI-X	10	No
SG-XPCI1FC-QF2 (X6767A)	PCI	10	No
SG-XPCI1FC-QF4	PCI	10	No
SG-XPCI1FC-QL2	PCI-X	10	No
SG-XPCI2FC-EM2	PCI-X	10	No
SG-XPCI2FC-QF2 (X6768A)	PCI-X	10	No
SG-XPCI2FC-QF4	PCI-X	10	10
SG-XPCIE1FC-EM4	PCle	10	No
SG-XPCIE1FC-QF4	PCle	10	No
SG-XPCIE2FC-EM4	PCle	10	No
SG-XPCIE2FC-QF4	PCle	10	10

# 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	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	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 3800, 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 8.2. Many of these devices are end-of-life products that are no longer supported by the manufacturer.

## Virtual Tape Libraries

Manufacturer	Device
SEPATON	S2100

## Tape Libraries

Manufacturer	Device
Dell EMC	PowerVault ML6000 Series, PowerVault TL2000, PowerVault TL4000
Hewlett Packard Enterprise	1/8 G2 Tape Autoloader, MSL2024, MSL4048, MSL8048, MSL8096
IBM	System Storage TS3200 (Machine Type 3573), System Storage TS3310 (Machine Type 3576)
Oracle	StorageTek SL24, StorageTek SL48, StorageTek SL500
Quantum	Scalar i2000, Scalar i500, SuperLoader 3
Spectra Logic	Spectra T120
Tandberg	StorageLibrary T24, StorageLibrary T48

## Tape Drives

Manufacturer	Device
Hewlett Packard Enterprise	Ultrium 1760 LTO4, Ultrium 1840 LTO4, Ultrium 920 LTO3, Ultrium 960 LTO3
IBM	System Storage TS1030 (3588 Model F3B) Ultrium 3, System Storage TS2230 Ultrium 3 Half Height, System Storage TS2340 Ultrium 4, TotalStorage 3580 Ultrium 3, Ultrium 3, Ultrium 3 Half Height, Ultrium 4 (U160)
Quantum	LTO-3, LTO-3 HH
Tandberg	HH LTO 3