Backup Exec 21 - 21.x
Hardware and Cloud Storage Compatibility List (HCL)

Created on July 05, 2024

Click here for the HTML version of this document. <https://download.veritas.com/resources/content/live/OSVC/100046000/100046609/en_US/be_21_hcl.html>

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Introduction

This Hardware Compatibility List (HCL) document contains information for all editions of Backup Exec 21. All hardware must be present on this HCL for support, unless a section clearly states that the devices listed are not the only devices supported (such as the Disk Target section). If your tape drive, tape library, or virtual tape library is not properly detected, please update your system using the latest Update (previously called a Feature Pack) before calling Support. Updating the drivers frequently resolves device related issues. This update can be found on our support site. <https://www.veritas.com/support/en_US/15047.html> Please see these links for information about how and where to obtain updates <https://www.veritas.com/content/support/en_US/article.100019916> and <https://www.veritas.com/support/en_US/article.100041552>

Backup Exec support policy is that all of the vendors involved (both hardware and software) must support all the pieces involved. For example, the Host Bus Adapter must be supported by the hardware vendor and the operating system vendor in order for Veritas to provide support. Always consult the hardware manufacturer's support list and the operating system vendor's support list when troubleshooting or planning a data protection installation. All entries were believed to be fully supported by all parties involved when they were added to this Veritas list, but if a vendor drops their support after this list was published, Veritas support will be on a reasonable-effort basis.

Hardware is selected and prioritized for certification based on market research and input from the field, including customer feedback. If a customer would like to have their hardware considered for inclusion on this HCL, simply submit the request via an email <Backup_Exec_HCL@veritas.com> . Requests will be reviewed by the appropriate Veritas Product Management team members for possible certification, with final decisions based on the overall fit with the product, target market, and frequency of request.

Some notes about drivers: Veritas Kernel-mode Tape drivers and tapeinst.exe are no longer installed if Backup Exec 21 is installed on Windows Server 2012 or later. There are no devices on this Backup Exec 21 Hardware Compatibility List (HCL) that require Veritas Kernel-mode drivers. USB tape devices still require a Microsoft or vendor Kernel-mode driver, in addition to the Veritas User-mode driver. Users of very old, unsupported, tape devices should investigate and test before using Windows Server 2012 or later to determine the functionality as kernel-mode drivers may be required. All supported tape devices are now accessed by Veritas User-mode drivers. Most tape devices have been accessed by User-mode drivers for multiple previous versions of Backup Exec.

User-mode drivers are not visible in the Windows Device Manager. When no Kernel-mode drivers are installed, the Windows Device Manager may show the tape drive with a yellow exclamation mark. This is acceptable and does NOT prevent the device from being used with Backup Exec and the User-mode drivers. Kernel-mode drivers from Microsoft or the tape hardware vendor are generally acceptable to be installed. Backup Exec will continue to access the tape devices via User-mode drivers.

Tapeinst.exe is the program that installs Veritas Kernel-mode tape class drivers. When using Windows Server 2008 R2 or earlier, tapeinst.exe can be invoked manually or via the "Install Tape Device Drivers" wizard (under the "Configure Storage" menu). When using Windows Server 2012 or later, the ability to run the "Install Tape Device Drivers" wizard (under the Configure Storage menu) is no longer present and is not needed.

Some notes about tape drive block sizes: Please be sure to consult this technote when using tape drive block sizes above the 64KB default size. <https://www.veritas.com/content/support/en_US/article.100019307>

Alternative Configurations: Our Licensed Software is designed to interoperate with many types of systems, applications, and hardware. Sometimes a customer may choose to use our Licensed Software in an **"Alternative Configuration"**, namely, an environment that has not been validated, approved or verified to operate with our Licensed Software or which does not support such Licensed Software or only supports limited functionality. In most cases, we do not support Alternative Configurations, and we have no obligation to provide Support Services to Licensed Software in an Alternative Configuration. Veritas makes no warranty with respect to use of Licensed Software in an Alternative Configuration and any such use is at your own risk. A **"Supported Configuration"** might be converted into an Alternative Configuration where a vendor modifies one of its components that is part of the original Supported Configuration. As a consequence, your Licensed Software would then be operating in an Alternative Configuration. If you experience a problem with the Licensed Software in an Alternative Configuration or if your issue deals with script that was not developed by Veritas or an authorized consulting partner, then we may ask you to reproduce the problem in a Supported Configuration environment. Please note we have no obligation to attempt to resolve problems that cannot be replicated in a Supported Configuration. However, if the problem can be replicated in a Supported Configuration, we will investigate the problem in that Supported Configuration and attempt to resolve it. If the problem cannot be replicated in a Supported Configuration, then we may elect not to work on that problem.

Configuring a tape device with a virtual machine is considered an "Alternative Configuration". For more details on the configuration of virtual machines with tape devices, see the following related articles:

<https://www.veritas.com/support/en_US/article.100023671> Support for Backup Exec in virtual and IaaS environments

<https://www.veritas.com/support/en_US/article.100001998> Can Backup Exec Media Servers be installed on a Guest virtual machine running on an ESX server?

<https://www.veritas.com/support/en_US/article.100020969> How to properly configure a VMWare ESX virtual machine to use tape devices which are connected to the host server via SCSI Passthrough.

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Backup Exec Documentation

Item	Location
Backup Exec 21.4 Administrator's Guide	<https://www.veritas.com/content/support/en_US/doc/59226269-151786294-0/index>
Backup Exec 21.3 Administrator's Guide	<https://www.veritas.com/content/support/en_US/doc/59226269-149108496-0/index>
Backup Exec 21.2 Administrator's Guide	<https://www.veritas.com/content/support/en_US/doc/59226269-142132545-0/index>
Backup Exec 21.1 Administrator's Guide	<https://www.veritas.com/content/support/en_US/doc/59226269-141939367-0/index>
Backup Exec 21 Administrator's Guide	<https://www.veritas.com/content/support/en_US/doc/59226269-140215363-0/index>
Backup Exec 21.4 Readme	<https://www.veritas.com/content/support/en_US/doc/59226813-151838355-0/index>
Backup Exec 21.3 Readme	<https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>
Backup Exec 21.2 Readme	<https://www.veritas.com/content/support/en_US/doc/59226813-142155634-0/index>
Backup Exec 21.1 Readme	<https://www.veritas.com/content/support/en_US/doc/59226813-141939443-0/index>
Backup Exec 21 Readme	<https://www.veritas.com/content/support/en_US/doc/59226813-140215376-0/index>
Backup Exec 21.4 Best Practices	<https://www.veritas.com/content/support/en_US/doc/72686287-151838318-0/index>
Backup Exec 21.3 Best Practices	<https://www.veritas.com/content/support/en_US/doc/72686287-150009827-0/index>
Backup Exec 21.2 Best Practices	<https://www.veritas.com/content/support/en_US/doc/72686287-143329712-0/index>
Backup Exec 21.1 Best Practices	<https://www.veritas.com/content/support/en_US/doc/72686287-141939483-0/index>
Backup Exec 21 Best Practices	<https://www.veritas.com/content/support/en_US/doc/72686287-140583204-0/index>
Backup Exec 21.4 What's New	<https://www.veritas.com/content/support/en_US/doc/125172030-152268048-1>
Backup Exec 21.3 What's New	<https://www.veritas.com/content/support/en_US/doc/125172030-151725590-1>
Backup Exec 21.2 What's New	<https://www.veritas.com/content/support/en_US/doc/125172030-147532937-1>
Backup Exec 21.1 What's New	<https://www.veritas.com/content/support/en_US/doc/125172030-143585840-1>
Backup Exec 21 What's New	<https://www.veritas.com/content/support/en_US/doc/125172030-141220018-1>
Backup Exec 21 Licensing Guide	<https://www.veritas.com/support/en_US/doc/Backup_Exec_21_Licensing_Guide_April_2020>
Backup Exec 21 Command Line Interface Help Download	<https://www.veritas.com/support/en_US/article.100041183>
Backup Exec 21.4 Tuning and Performance Guide	<https://www.veritas.com/support/en_US/doc/40056030-152268074-1>
Backup Exec 21.3 Tuning and Performance Guide	<https://www.veritas.com/content/support/en_US/doc/40056030-151725617-1>
Backup Exec 21.2 Tuning and Performance Guide	<https://www.veritas.com/content/support/en_US/doc/40056030-147551952-1>
Backup Exec 21.1 Tuning and Performance Guide	<https://www.veritas.com/content/support/en_US/doc/40056030-143585874-1>
Backup Exec 21 Tuning and Performance Guide	<https://www.veritas.com/content/support/en_US/doc/40056030-141221209-1>
Backup Exec 21 - 21.x Software Compatibility List (SCL)	<https://www.veritas.com/support/en_US/doc/BE_21_SCL>

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Newly-Supported Devices

The following new devices have been added to this HCL. See the device in its respective section, via bookmarks, for more details.

Veritas Update (previously LiveUpdate) will obtain the latest updates for your BE version.

Your device may require that you download and install an Update (previously called a Feature Pack), but it is RECOMMENDED that the latest patches are always used. If a new Update is utilized, it is required that Simplified Disaster Recovery (SDR) users regenerate the SDR boot media.

New NDMP Option components:

1. Dell EMC Unity Operating Environment 5.3

Added 2024-03-20:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.13

New NDMP Option components:

1. Dell EMC PowerStore 3.5

Added 2024-01-12:

New tape libraries:

1. BDT MultiStor with LTO9 HH - FC and SAS
2. Fujitsu ETERNUS LT140 with LTO9 HH - FC and SAS

New OpenStorage appliances:

1. Fujitsu CS800 Reference Architecture with plug-in v11.0.0
2. Fujitsu ETERNUS CS800 M1 with plug-in v11.0.0

Added 2023-09-01:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.12

Added 2023-08-18:

New NDMP Option components:

1. Dell EMC Unity Operating Environment 5.2

Added 2023-05-09:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.11

Added 2023-04-14:

New tape libraries:

1. Overland Storage with LTO9 HH - SAS and FC

Added 2023-04-07:

New tape libraries:

1. Spectra Logic Spectra Stack with LTO9 HH - SAS and FC
2. Spectra Logic T-Series with LTO9 HH and FH - FC

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Added 2023-01-27:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.10

Added 2022-12-15:

New OpenStorage appliances:

1. Quantum DXi series with plug-in v11.0.0 with WORM

New NDMP Option components:

1. Dell EMC PowerStore 3.2

Added 2022-12-07:

New tape libraries:

1. Dell EMC PowerVault LTO-9 SA - SAS

Added 2022-11-25:

New tape libraries:

1. Oracle SL150 FC with IBM LTO9 HH - FC

Added 2022-10-07:

New NDMP Option components:

1. Dell EMC PowerScale with OneFS v9.4
2. Dell EMC Unity Operating Environment 5.1
3. NetApp FAS Series with ONTAP v9.10

Added 2022-09-29:

New Backup-to-cloud | S3 Cloud connector:

1. Wasabi Hot Cloud Storage

Added 2022-09-09:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.9

New Backup-to-cloud | S3 Cloud connector:

1. Wasabi Hot Cloud Storage

Added 2022-07-25:

New NDMP Option components:

1. Dell EMC PowerStore 2.1

New tape libraries:

1. NEC T280 (IBM TS4300) with IBM LTO-9 HH - SAS and FC

Added 2022-06-16:

New tape libraries:

1. Dell EMC ML3 library with IBM LTO-9 FH - FC and SAS

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2. Dell EMC ML3 library with IBM LTO-9 HH - FC and SAS

New NDMP Option components:

1. NetApp ONTAP Select with ONTAP v9.10

Added 2022-05-31:

New tape drives:

1. HPE Ultrium 45000 LTO-9 - FC and SAS

New tape libraries:

1. HPE 1/8 G2 Tape Autoloader library with HPE Ultrium 45000 LTO-9 - FC and SAS
2. HPE MSL2024 tape library with HPE Ultrium 45000 LTO-9 - FC and SAS
3. HPE MSL3040 tape library with HPE Ultrium 45000 LTO-9 - FC and SAS

Added 2022-05-20:

New tape drives:

1. Quantum Ultrium 9 Half Height - SAS

New tape libraries:

1. Quantum Scalar i3 with IBM Ultrium 9 Half Height - SAS
2. Quantum Scalar i6 with IBM Ultrium 9 - SAS
3. Quantum SuperLoader 3 with IBM Ultrium 9 Half Height - SAS

Added 2022-04-28:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.8

New Backup-to-cloud | S3 Cloud connector:

1. Google Cloud - Belgium (EU-West1)
2. Google Cloud - London (EU-West2)
3. Google Cloud - Frankfurt (EU-West3)

New NDMP Option components:

1. Dell EMC PowerScale with OneFS v9.3

Added 2022-03-11:

New Backup-to-Disk | OpenStorage appliances:

1. ExaGrid EX series with plug-in V11.4.1

New tape libraries:

1. HPE MSL6480 with Tape drive HPE Ultrium 45000 LTO9 - FC and SAS
2. Quantum Scalar i3 with Tape drive IBM Ultrium 9 Half Height - FC

Added 2022-02-18:

New Backup-to-Disk | OpenStorage appliances:

1. Hewlett Packard Enterprise StoreOnce Appliance series and Virtual Edition with plugin 4.3

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Added 2022-01-18:

New tape libraries:

1. IBM System Storage TS4300 (Machine Type 3555) - TS2290 Ultrium 9 Half Height - FC and SAS

Added 2022-01-06:

New tape drives:

1. IBM Ultrium 9 - Fibre Channel
2. IBM Ultrium 9 Half Height - Fibre Channel and SAS
3. IBM System Storage TS2290 Ultrium 9 Half Height - Fibre Channel and SAS

Added 2021-12-28:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.7

Added 2021-12-10:

New Backup-to-cloud | S3 Cloud connector:

1. Google Cloud - Delhi (Asia-South2)
2. Google Cloud - Melbourne (Australia-Southeast2)
3. Google Cloud - Toronto (NorthAmerica-Northeast2)

Added 2021-12-03:

New tape libraries:

1. Quantum Scalar i6 - IBM Ultrium 9

New NDMP Option components:

1. NetApp ONTAP Select with ONTAP v9.9

Added 2021-11-12:

New tape libraries:

1. Quantum Scalar i6000 - IBM Ultrium 9
2.Quantum Scalar i500 - IBM Ultrium 9

New Backup-to-cloud | S3 Cloud connector:

1. Google Cloud Archive

Added 2021-10-07:

New NDMP Option components:

1. Dell EMC PowerStore T-series

Added 2021-09-14:

New Backup-to-cloud | S3 Cloud connector:

1. Amazon - Asia Pacific (Osaka)
2. Google Cloud - Warsaw (EU-Central2)
3. Google Cloud - Dual-Region

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Added 2021-08-31:

New NDMP Option components:

1. Dell EMC PowerScale with OneFS v9.1
2. Dell EMC PowerScale with OneFS v9.2

The PowerScale line was previously known as the Isilon Scale-Out NAS line.

Added 2021-07-20:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.6

Added 2021-07-12:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.5

New NDMP Option components:

1. NetApp FAS Series with ONTAP v9.8

Added 2021-03-01:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and Virtual Edition with DDOS plugin v7.4
2. Quantum DXi9100

New Backup-to-cloud | S3 Cloud connector:

1. Google Cloud - Jakarta (Asia-Southeast2)

New virtual tape libraries (VTL):

1. Quantum DXi9100

Added 2020-12-01:

New Backup-to-cloud | S3 Cloud connector:

1. Tencent Cloud Object Storage - All locales

New NDMP Option components:

1. Dell EMC PowerScale with OneFS v9.0

The PowerScale line was previously known as the Isilon Scale-Out NAS line.

Added 2020-09-15:

New Backup-to-Disk | OpenStorage appliances:

1. Data Domain Appliance series and DDVE with DDOS plugins v7.2 and v7.3

Added 2020-09-07:

New Backup-to-cloud | S3 Cloud connector:

1. Google Cloud - Salt Lake City (US-West3) and Las Vegas (US-West4)
2. Amazon - Africa (Cape Town) and Europe (Milan)

New Backup-to-cloud | OpenStorage:

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1. Hewlett Packard Enterprise Cloud Volumes

New NDMP Option components:

1. Dell EMC PowerStore T-series

For details about Backup Exec 21 Update 2 (aka 21.2), please see <https://www.veritas.com/content/support/en_US/doc/59226813-142155634-0/index> or <https://www.veritas.com/content/support/en_US/downloads/detail.REL859588> Released March 1, 2021

For details about Backup Exec 21 Update 1 (aka 21.1), please see <https://www.veritas.com/content/support/en_US/doc/59226813-141939443-0/index> or <https://www.veritas.com/content/support/en_US/downloads/detail.REL741973> Released September 07, 2020

Backup Exec 21.0 was released April 6, 2020 Please see <https://www.veritas.com/content/support/en_US/doc/59226813-140215376-0/index> or <https://www.veritas.com/content/support/en_US/downloads/detail.REL991929>

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Select hardware by BE option or agent

The listed options and agents have hardware requirements. They are included here for the purpose of helping choose the appropriate hardware for the selected agent/option.

Advanced Disk-based Backup Option

The Advanced Disk-based Backup Option (ADBO, included with the Enterprise Server Option), as it relates to hardware devices in this HCL, can be seen in the VSS Providers for Offhost backup section.

Deduplication Option

The Deduplication Option support information is included with the Disk Targets sections. There are two basic options to choose from:
1. Backup Exec Deduplication Option Storage. To find tested devices, search by storage device vendor in the Disk Targets | Disk Storage section , then model, then look for a check [✔] in the "dedup" column for tested disk devices.
2. Deduplication Appliance - sometimes referred to as OpenStorage devices from our hardware/software partners. See the OST-Appliance section .

Simplified Disaster Recovery Option

The Simplified Disaster Recovery (SDR) Option is supported on tape libraries, tape drives, virtual tape libraries, and disk devices (present at system start time) unless otherwise mentioned in a footnote, or section header paragraph.

For compatibility information on physical tape libraries with SDR, please refer to the Tape Libraries with Drives Section of this document.

For compatibility information on virtual tape libraries (VTLs) with SDR, please refer to the Virtual Tape Libraries with Drives Section of this document.

For compatibility information on tape drives with SDR, please refer to the Tape Drives Section of this document.

NDMP Option

The storage devices supported by the NDMP option are included with the Tape Library / Virtual Tape Library sections. Please refer to the NDMP-specific notes in the "NDMP Platforms" section. These notes can be found as footnotes, per NDMP vendor / device combination. These notes apply to the "Virtual Tape Libraries with Drives" and "Tape Libraries with Drives Section" sections. Search by storage device vendor, then model, then look for a check [✔] in the NDMP column for support. Please note that the presence of a check means that Veritas will support the storage device and NDMP combination IF and ONLY IF the NDMP vendor also supports the library / drive combination. Please refer to the NDMP vendors' documentation for storage device support.

For compatibility information on NDMP platforms supported, please refer to the NDMP Platforms Section of this document.

For compatibility information on physical tape libraries with NDMP, please refer to the Tape Libraries with Drives Section of this document.

For compatibility information on virtual tape libraries (VTLs) with NDMP, please refer to the Virtual Tape Libraries with Drives Section of this document.

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Remote Media Agent for Linux

The Remote Media Agent for Linux (RMAL) support information is included with the Tape Library / Virtual Tape Library / Tape Drives sections. Search by storage device vendor, then model, then look for a check [✔] in the RMAL column for support.

For compatibility information on physical tape libraries with RMAL, please refer to the Tape Libraries with Drives Section of this document.

For compatibility information on virtual tape libraries (VTLs) with RMAL, please refer to the Virtual Tape Libraries with Drives Section of this document.

For compatibility information on tape drives with RMAL, please refer to the Tape Drives Section of this document.

Enterprise Server Option for use with SAN shared storage

The SAN Shared Storage Option is now available as part of the Enterprise Server Option in Backup Exec 2012, Backup Exec 2014, Backup Exec 15, Backup Exec 16 Backup Exec 20, & Backup Exec 21. All references to SSO on the HCL are now replaced with ESO due to the change. If you used the SAN Shared Storage Option in a previous version of Backup Exec, the SAN primary server will be upgraded to a Central Administration Server. SAN secondary servers will be upgraded to Managed Backup Exec Servers and will have the Managed Backup Exec Server option installed and the Unrestricted access to catalogs and backup sets for restore option selected.

The Enterprise Server Option (ESO) hardware support information is included with the Tape Library / Virtual Tape Library sections. Search by storage device vendor, then model, then look for a check [✔] in the ESO column for support.

For compatibility information on physical tape libraries with ESO, please refer to the Tape Libraries with Drives Section of this document.

For compatibility information on virtual tape libraries (VTLs) with ESO, please refer to the Virtual Tape Libraries with Drives Section of this document.

For compatibility information on storage area network (SAN) components with ESO, inlcuding fibre-channel and iSCSI components, please refer to the SAN Infrastructure components Section of this document.

Library Expansion Option

The Library Expansion Option (LEO) supported hardware configurations, including tape library and tape drive combinations, can be seen in the Tape Libraries with Drives section.

Virtual Tape Library Unlimited Drive Option

The Virtual Tape Library Unlimited Drive Option (VUDO) supported hardware configurations, including virtual tape library and virtual tape drive combinations, can be seen in the Virtual Tape Libraries with Drives section.

Often, a single VTL can be configured with a variable number of tape drives and tape libraries. VUDO allows for the variance in drives per physical VTL, not logical VTL. In other words, creating more than one logical VTL will require the need for multiple VUDO licenses.

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Cloud Storage

Please see the "Best Practices for Using the Veritas Backup Exec Cloud Connector" at <https://www.veritas.com/content/support/en_US/doc/72686287-140583204-0/v128967126-140583204>

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

1) Azure Storage - This method uses the Backup Exec "Azure Cloud Connector" (a plugin included with Backup Exec). This target appears in Backup Exec with a Storage Type of "Cloud Storage".

2) S3 Storage - This method uses the Backup Exec "S3 Cloud Connector" (a plugin included with Backup Exec). This target appears in Backup Exec with a Storage Type of "Cloud Storage".

3) OST - This method uses a third-party Open Storage Technology plugin. This methods requires a Deduplication license in Backup Exec. This target appears in BE with a Storage Type of "OpenStorage".

4) Disk Targets - This method uses third-party hardware or software to make the cloud appear as a "regular" disk volume to Windows and Backup Exec. This target appears in Backup Exec with a Storage Type of "Disk storage".

5) VTL - This method uses third-party software to present the Cloud as if it was a VTL (Virtual Tape Library) to Windows and Backup Exec. A BE VUDO license is suggested. This target appears in Backup Exec with a Storage Type of "Robotic Library".

Listed below are the supported and tested Cloud Storage solutions. Other Cloud Storage solutions may work, but it would be treated as an "Alternative Configuration". See this article for more information <https://www.veritas.com/support/en_US/article.100039077> Cloud solutions are selected and prioritized for certification based on market research and input from the field, including customer feedback. If a customer would like to have their cloud and/or hardware considered for inclusion on this HCL, simply submit the request via an email <Backup_Exec_HCL@veritas.com> . Requests will be reviewed by the appropriate Veritas Product Management team members for possible certification, with final decisions based on the overall fit with the product, target market, and frequency of request.

Cloud Providers and Technology Methods

Cloud Provider	Technology method
Alibaba Cloud Object Storage Service (OSS)	Backup Exec S3 Cloud connector
Amazon Simple Storage Service (S3) Standard	Backup Exec S3 Cloud connector
Amazon Simple Storage Service (S3) Standard	Riverbed Appliance
Amazon Simple Storage Service (S3) Standard	NetApp AltaVault
Amazon Simple Storage Service (S3) Standard and Glacier	Datish Systems OpenDedupe OST
Amazon Simple Storage Service (S3) Standard - Infrequent Access	Backup Exec S3 Cloud connector
Amazon Simple Storage Service (S3) One Zone Infrequent Access	Backup Exec S3 Cloud connector
Amazon Simple Storage Service (S3) Intelligent Tiering	Backup Exec S3 Cloud connector
Amazon Simple Storage Service (S3) Glacier	Backup Exec S3 Cloud connector
Amazon Simple Storage Service (S3) Glacier Deep Archive	Backup Exec S3 Cloud connector
Amazon Simple Storage Service and Glacier	Amazon AWS VTL
Amazon Web Services	Amazon Gateway-Cached Volume
Chunghwa Telecom hicloud S3	Backup Exec S3-Compatible Cloud connector

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Cloud Providers and Technology Methods

Cloud Provider	Technology method
Cloudian HyperStore Object Storage	Backup Exec S3 Cloud connector
Dell EMC Elastic Cloud Storage (ECS)	Backup Exec S3 Cloud connector
DOCKS by PingUs	Backup Exec S3 Cloud connector
Google Cloud Multi-Regional	Backup Exec S3 Cloud connector
Google Cloud Regional	Backup Exec S3 Cloud connector
Google Cloud Nearline	Backup Exec S3 Cloud connector
Google Cloud Coldline	Backup Exec S3 Cloud connector
Google Cloud Durable Reduced Availability (DRA)	Backup Exec S3 Cloud connector
Google Cloud Multi-Regional	Datish Systems OpenDedupe OST
Google Cloud Regional	Datish Systems OpenDedupe OST
Hewlett Packard Enterpprise Cloud Volumes	HPE OST plugin
IBM Cloud Object Storage	Backup Exec S3-Compatible Cloud connector
Infoniqa SWISS3CLOUD	Backup Exec S3-Compatible Cloud connector
Microsoft Azure	Backup Exec Azure Cloud connector
Microsoft Azure	NetApp AltaVault
Microsoft Azure	Microsoft StorSimple
Microsoft Azure	Riverbed Appliance
Microsoft Azure	Datish Systems OpenDedupe OST
Microsoft Azure Archive	Datish Systems OpenDedupe OST
Private S3 Cloud Storage	Backup Exec S3 Cloud connector
Quantum Q-Cloud Protect for AWS	Quantum-provided OST plugin
RedHat Ceph Storage	Backup Exec S3 Cloud connector
Scality RING Storage	Backup Exec S3-Compatible Cloud connector
Tencent Cloud Object Storage	Backup Exec S3-Compatible Cloud connector
Telefonica Open Cloud	Backup Exec S3-Compatible Cloud connector
Veritas Access Storage	Backup Exec S3-Compatible Cloud connector
Wasabi	Backup Exec S3-Compatible Cloud connector

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Azure Cloud

You can use the Azure Cloud Connector to back up data to Microsoft Azure cloud storage.

Microsoft

Cloud Storage Solution	Supported Regions	Supported Functionality
Azure [1] [2] [3]	All Locales	Cloud Deduplication
Azure China [1] [2] [3]	All Locales	Cloud Deduplication
Azure Germany [1] [2] [3]	All Locales	Cloud Deduplication
Azure Government [1] [2] [3]	All US Gov Locales	Cloud Deduplication

1. Hot-tier and cool-tier are supported.

2. Backup Exec supports Azure-Blob Storage type only.

3. Support for "Cloud Deduplication" requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

S3 Storage

You can use the S3 Cloud Connector to back up data to a supported S3-compatible cloud storage.

The below section lists the S3-compatible cloud storage solutions that are currently supported by Backup Exec 21 and the BE 21 Update (if any) that are required for support.

Alibaba Cloud

Cloud Storage Solution	Locales / Regions
Object Storage Service (OSS) [1]	All Locales

1. To configure this cloud storage for use with Backup Exec, see the following article <https://vox.veritas.com/t5/Backup-Exec/Backup-Exec-BE-workload-protection-with-Alibaba-Object-Storage/ba-p/858791>

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Amazon

Cloud Storage Solution	Supported Regions	Supported Functionality
Simple Storage Service (S3) Standard [1] [2] [3] [4] [5] [6]	US East (N. Virginia), US West (Oregon), US West (N. California), Europe (Ireland), Asia Pacific (Singapore), Asia Pacific (Tokyo), Asia Pacific (Sydney), South America (Sao Paulo), Asia Pacific (Seoul), Europe (Frankfurt), Asia Pacific (Mumbai), US East (Ohio), Canada (Central), Europe (London), China (Beijing), China (Ningxia), Europe (Paris), Sweden (Stockholm), Hong Kong, Middle East (Bahrain), **Africa (Cape Town), Europe (Milan), Asia Pacific (Osaka)** [7] [8]	Cloud Deduplication, S3 Object Lock
Simple Storage Service (S3) Standard [1] [2] [3] [4]	US West1 (Gov Non-FIPS), US West1 (Gov FIPS 140-2)	Cloud Deduplication
Simple Storage Service (S3) Standard - Infrequent Access [1] [2] [3] [4] [5] [6]	US East (N. Virginia), US West (Oregon), US West (N. California), Europe (Ireland), Asia Pacific (Singapore), Asia Pacific (Tokyo), Asia Pacific (Sydney), South America (Sao Paulo), Asia Pacific (Seoul), Europe (Frankfurt), Asia Pacific (Mumbai), US East (Ohio), Canada (Central), Europe (London), China (Beijing), China (Ningxia), Europe (Paris), Sweden (Stockholm), Hong Kong, Middle East (Bahrain), **Africa (Cape Town), Europe (Milan)** , **Asia Pacific (Osaka)** [7] [8]	Cloud Deduplication, S3 Object Lock
Simple Storage Service (S3) Intelligent Tiering [1] [2] [3] [4] [5] [6]	US East (N. Virginia), US West (Oregon), US West (N. California), Europe (Ireland), Asia Pacific (Singapore), Asia Pacific (Tokyo), Asia Pacific (Sydney), South America (Sao Paulo), Asia Pacific (Seoul), Europe (Frankfurt), Asia Pacific (Mumbai), US East (Ohio), Canada (Central), Europe (London), China (Beijing), China (Ningxia), Europe (Paris), Sweden (Stockholm), Hong Kong, Middle East (Bahrain), **Africa (Cape Town), Europe (Milan), Asia Pacific (Osaka)** [7] [8]	Cloud Deduplication, S3 Object Lock
Simple Storage Service (S3) One Zone Infrequent Access [1] [2] [3] [4] [5] [6]	US East (N. Virginia), US West (Oregon), US West (N. California), Europe (Ireland), Asia Pacific (Singapore), Asia Pacific (Tokyo), Asia Pacific (Sydney), South America (Sao Paulo), Asia Pacific (Seoul), Europe (Frankfurt), Asia Pacific (Mumbai), US East (Ohio), Canada (Central), Europe (London), China (Beijing), China (Ningxia), Europe (Paris), Sweden (Stockholm), Hong Kong, Middle East (Bahrain), **Africa (Cape Town), Europe (Milan),Asia Pacific (Osaka)** [7] [8]	Cloud Deduplication, S3 Object Lock
Simple Storage Service (S3) Glacier [1] [2] [3]	US East (N. Virginia), US West (Oregon), US West (N. California), Europe (Ireland), Asia Pacific (Singapore), Asia Pacific (Tokyo), Asia Pacific (Sydney), South America (Sao Paulo), Asia Pacific (Seoul), Europe (Frankfurt), Asia Pacific (Mumbai), US East (Ohio), Canada (Central), Europe (London), China (Beijing), China (Ningxia), Europe (Paris), Sweden (Stockholm), Hong Kong, Middle East (Bahrain), **Africa (Cape Town), Europe (Milan), Asia Pacific (Osaka)** [7] [8]	
Simple Storage Service (S3) Glacier Deep Archive [1] [2] [3]	US East (N. Virginia), US West (Oregon), US West (N. California), Europe (Ireland), Asia Pacific (Singapore), Asia Pacific (Tokyo), Asia Pacific (Sydney), South America (Sao Paulo), Asia Pacific (Seoul), Europe (Frankfurt), Asia Pacific (Mumbai), US East (Ohio), Canada (Central), Europe (London), China (Beijing), China (Ningxia), Europe (Paris), Sweden (Stockholm), Hong Kong, Middle East (Bahrain), **Africa (Cape Town), Europe (Milan), Asia Pacific (Osaka)** [7] [8]	

1. To configure this cloud storage for use with Backup Exec, see the following article <https://www.veritas.com/support/en_US/article.100038470>
2. To get started with AWS S3, go to the following link <http://aws.amazon.com/s3>
3. Transfer Acceleration for AWS S3 is not currently supported in BE
4. Support for "Cloud Deduplication" requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>
5. Support for "S3 Object Lock" requires BE 21.4 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-151838355-0/index>
6. Both Governance mode and Compliance mode are supported with S3 Object Lock enabled cloud storage.
7. Support for the Africa (Cape Town) or Europe (Milan) regions requires BE 21.1 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-141939443-0/index>
8. Support for Asia Pacific (Osaka) region requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

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Chunghwa Telecom

Cloud Storage Solution	Locales / Regions
hicloud S3 [1]	All Locales

1. The Provider Name "Compatible-with-S3" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

Cloudian

Cloud Storage Solution	Locales / Regions
Cloudian HyperStore Object Storage [1]	On-Premises

1. The Provider Name "Cloudian" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100038827.html>

Dell EMC

Cloud Storage Solution	Locales / Regions
Dell EMC Elastic Cloud Storage (ECS) [1]	On-Premises

1. The Provider Name "emc-ecs" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100038827.html>

DOCKS by PingUs

Cloud Storage Solution	Locales / Regions	Supported Functionality
DOCKS by PingUs [1] [2]	On-Premises, All Locales	Cloud Deduplication

1. The Provider Name "Cloudian" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100038827.html>

2. Support for "Cloud Deduplication" requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

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Google

Cloud Storage Solution	Supported Locations	Supported Functionality
Google Cloud Archive [1] [2] [3]	Asia, European Union, United States	Cloud Deduplication
Google Cloud Coldline [1] [2]	Asia, European Union, United States	Cloud Deduplication
Google Cloud Dual-Region [1] [4] [2]	Asia (Asia-Northeast1 and Asia-Northeast2), European Union (EU-North1 and EU-West4), United States (US-Central1 and US-East1)	Cloud Deduplication
Google Cloud Durable Reduced Availability (DRA) [1]	Asia, European Union, United States	
Google Cloud Multi-Regional [1] [2]	Asia, European Union, United States	Cloud Deduplication
Google Cloud Nearline [1] [2]	Asia, European Union, United States	Cloud Deduplication
Google Cloud Regional [1] [2]	US-Central1, US-East1, US-West1, US-East4, US-West1, US-West2, Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, Asia-East2, Asia-South1, Asia-Northeast2, EU-North1, EU-West4, EU-West6, NorthAmerica-Northeast1, SouthAmerica-East1, US-West2, Asia-Northeast3, **US-West3, US-West4, Asia-Southeast2, EU-Central2, Asia-South2, Australia-Southeast2, NorthAmerica-Northeast2, EU-West1, EU-West2, EU-West3** [5] [6] [7] [8]	Cloud Deduplication

1. To configure this cloud storage for use with Backup Exec, see the following article <https://www.veritas.com/support/en_US/article.100031532>

2. Support for "Cloud Deduplication" requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

3. The Google "Archive" storage class support requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

4. The Google "Dual-Region" support requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

5. Support for the US-West3 and US-West4 locations requires BE 21.1 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-141939443-0/index>

6. Support for the Asia-Southeast2 location requires BE 21.2 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-142155634-0/index>

7. Support for the EU-Central2 location requires BE 21.3 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-149109026-0/index>

8. Support for the Asia-South2, Australia-Southeast2, NorthAmerica-Northeast2, EU-West1, EU-West2 and EU-West3 locations requires BE 21.4 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-151838355-0/index>

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IBM

Cloud Storage Solution	Locales / Regions
Cloud Object Storage [1]	All Locales

1. The Provider Name "Compatible-with-S3" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

Infoniqa

Cloud Storage Solution	Locales / Regions
SWISS3CLOUD [1]	All Locales

1. The Provider Name "Compatible-with-S3" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

RedHat

Cloud Storage Solution	Locales / Regions
RedHat Ceph Storage [1]	On-Premises

1. The Provider Name "rhceph" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100038827.html>

Scality

Cloud Storage Solution	Locales / Regions
Scality RING Storage [1]	On-Premises

1. The Provider Name "Compatible-with-S3" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

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Tencent

Cloud Storage Solution	Locales / Regions
Cloud Object Storage (COS) - Standard [1] [2]	All Locales

1. The Provider Name "Compatible-with-S3" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

2. "COS Standard" is supported. "COS Standard IA", "COS Archive", and "COS Deep Archive" are not supported.

Telefonica

Cloud Storage Solution	Locales / Regions
Telefonica Open Cloud [1]	All Locales

1. The Provider Name "Compatible-with-S3" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

Veritas

Cloud Storage Solution	Locales / Regions
Veritas Access Storage [1] [2]	On-Premises

1. The Provider Name "vtas-access" will be required for creating Cloud Instance using bemcli. For steps on using bemcli to create a new cloud instance, please see <https://www.veritas.com/support/en_US/article.100039077>

2. All Veritas Access versions and form-factors are supported, including Veritas built appliances and other appliances.

Wasabi

Cloud Storage Solution	Locales / Regions
Hot Cloud Storage	us-east-1 (N. Virginia), us-east-2 (N. Virginia), us-central-1 (Texas), us-west-1 (Oregon), ca-central-1 (Toronto), eu-central-1 (Amsterdam), ap-northeast-1 (Tokyo), ap-northeast-2 (Osaka), eu west-1 (London), eu-west-2 (Paris), ap-southeast-2 (Sydney), ap-southeast-1 (Singapore), eu-central-2 (Frankfurt)

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OST

Backup Exec OpenStorage (OST) Cloud Storage plug-ins enable Veritas data protection applications to access Cloud Storage Solutions. Either the storage vendor or Veritas provides a software plug-in, which is installed on each Backup Exec server that is connected to the cloud solution. If you do not see OST support for your desired Cloud Storage Solution provider / Backup Exec Server OS platform, please contact that Storage Server appliance vendor to request OST support for that platform. Please see the Backup Exec System Administrator's Guide for more information on how to use OST.

Hewlett Packard Enterprise

Cloud Storage Solution	HPE Plug-in version	Windows Server 2012	Windows Server 2016	Windows Server 2019
Cloud Volumes [1] [2]	4.2	✔	✔	✔

1. For information on Cloud Volumes, go to <https://demo.cloudvolumes.hpe.com/welcome/>

2. See the HPE OST appliance section also

Quantum

Cloud Storage Solution	Cloud API Version	Quantum Plug-in version	Windows Server 2008	Windows Server 2012	Windows Server 2016
Q-Cloud Protect for AWS [1] [2] [3]	DXi Software 3.1.1	3.1	✔	✔	✔

1. For information on how to setup Q-Cloud Protect with Backup Exec, go to <http://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/index.aspx> select the appropriate DXi product, select the "Documentation" tab, in the best practices section select "DXi-Series and Best Practices Guide for Backup Exec from Symantec". Once you enter the appropriate serial number, search for Appendix A.

2. DXi server model DXi8500 (3TB) or DXi6802 is required to support Data-at-Rest encryption.

3. See the Quantum OST appliance section also

Datish Systems OpenDedupe

Cloud Storage Solution	Filesystem Version	Datish Plug-in version	Windows Server 2012	Windows Server 2016	Supported Regions
OpenDedupe for Amazon AWS (S3 Standard), Azure, Google (Regional, Multi-Regional) [1] [2] [3] [4] [5] [6] [7]	Datish Systems SDFS 3.4.10.1	2.1.3.0	✔	✔	US only
OpenDedupe for Amazon AWS (S3 Standard, Glacier), Azure, Azure Archive, Google (Regional, Multi-Regional) [1] [2] [3] [8] [4] [5] [6] [7]	Datish Systems SDFS 3.6.0.13	2.2.7.0	✔	✔	All Regions

1. For more information go to <https://www.veritas.com/support/en_US/article.100042352>

2. For more information go to <http://opendedup.org>

3. Installation demonstration videos are at <https://youtu.be/VAa-K8WIXVo> and <https://youtu.be/Pf_xCj2FynI>

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4. Note: OpenDedupe devices must NOT be shared between BE server nodes, even in an MMS/CAS environment. Do not use the same cloud bucket for two different BE servers. OpenDedupe does not support device sharing at this time. Although BE may allow you to share the device, you must not share it. Corruption of the dedupe data is a likely result.

5. The OpenDedupe OST Plugin is not supported on a Backup Exec Remote Agent. The Opendedupe OST plugin must be used on a Backup Exec Server.

6. See the Datish Systems OST section also

7. Please note: this device is nearing the end of support. Please see the 'Retiring Soon' section .

8. An OpenDedupe upgrade demonstration video is at <https://www.youtube.com/watch?v=YJFXLjswXbA> or <https://vox.veritas.com/t5/Backup-Exec/Video-How-to-Upgrade-OpenDedupe-from-a-previous-version-to-v3-6/m-p/852543>

Disk Targets

The disk target software versions listed in this section are the minimum software levels that are supported. Where more than one software level is listed, this implies a newer version has been tested. The earlier software version is the minumum version required.

Cloud storage providers will be individually certified for use with Backup Exec, therefore, additional Cloud providers will be added as they are certified.

Amazon Web Services

Storage Gateway	Release Date	Connectivity	Virtualization Platform
Gateway-Cached Volume [1] [2] [3]	16-Dec-2014	iSCSI	VMware ESXi Microsoft Hyper-V [4]

1. The Gateway-Cached Volume is offered as a service and therefore specific software versions are not available. Please refer to release dates: <http://aws.amazon.com/releasenotes/AWS-Storage-Gateway>

2. Backup Exec Simplified Disaster Recovery (SDR) is not supported.

3. See the Amazon Disk Targets section also

4. Please refer to AWS documentation for hypervisor and host requirements: <http://docs.aws.amazon.com/storagegateway/latest/userguide/Requirements.html>

Microsoft StorSimple

Storage Gateway	Minimum Supported Version	Supported Cloud Providers	Connectivity	Virtualization Platform
8100/8600 [1] [2] [3]	StorSimple Update 3	Azure	iSCSI	VMware ESXi Microsoft Hyper-V

1. Please refer to MS documentation: <https://docs.microsoft.com/en-us/azure/storsimple/storsimple-configure-backup-target-using-backup-exec>

2. Backup Exec Simplified Disaster Recovery (SDR) is not supported.

3. See the Microsoft Disk Targets section also

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NetApp

Family	Family Members	Software Tested	Supported Cloud Providers	Connectivity	Basic B2D	GRT Tested
AltaVault Appliance [1] [2] [3]	AVA-400, AVA-800	4.2.2	Amazon S3	CIFS	✔	✔
AltaVault Virtual Appliance [1] [2] [3]	AAVA-v2, AVA-v8, AVA-v16, AVA-v32	4.2.2	Amazon S3	CIFS	✔	✔
AltaVault Cloud Appliance [1] [2] [3]	AVA-c4, AVA-c8, AVA-c16	4.2.2	Amazon S3	CIFS	✔	✔

1. Backup Exec Simplified Disaster Recovery (SDR) is not supported. Refer to the AltaVault docs for recovery instructions.

2. NetApp AltaVault Cloud Integrated Storage Deployment Guide 4.0.1: <https://library.netapp.com/ecm/ecm_download_file/ECMP12510036>

3. See the NetApp Disk Targets section also

Riverbed

Family	Family Members	Software Tested	Supported Cloud Providers	Connectivity	Basic B2D	GRT Tested
SteelStore Appliance [1] [2] [3]	WWA730, WWA2030, WWA3030	SteelStore OS 3.0.2, 3.1.2a, 3.3	Amazon S3, Microsoft Azure	CIFS	✔	✔
SteelStore Virtual Appliance [1] [2] [3]	SteelStore Virtual 110, SteelStore Virtual 210, SteelStore Virtual 410, SteelStore Virtual 810, SteelStore Virtual 1610	SteelStore OS 3.1.1a, 3.1.2a, 3.3	Amazon S3, Microsoft Azure	CIFS	✔	✔
Whitewater Appliance [1] [2] [3]	WWA510, WWA710, WWA2010, WWA3010	SteelStore OS 3.0.2, 3.1.2a, 3.3	Amazon S3, Microsoft Azure	CIFS	✔	✔

1. Backup Exec Simplified Disaster Recovery (SDR) is not supported. Refer to the SteelStore docs for recovery instructions.

2. SteelStore Solution Guide: <http://media-cms.riverbed.com/documents/Solution+Guide+-+SteelStore+with+Backup+Exec+3.1.1.pdf>

3. See the Riverbed Disk Targets section also

VTL

The Cloud Virtual Tape Library (VTL) device support information is listed below. Please Note:
1. Configure the virtual device with the unique inquiry string as listed in this document. Emulating other devices is not supported.
2. Tested iSCSI versions of virtual tape libraries are listed in the "iSCSI Solutions" section, under the "SAN Infrastructure components" bookmark. Please reference the limitations listed in that section.

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Amazon Web Services

Storage Gateway	Release Date	Connectivity	Virtualization Platform	Library Inquiry Drive Inquiry
Gateway-Virtual Tape Library [1] [2] [3] [4] [5]	16-Dec-2014	iSCSI	VMware ESXi Microsoft Hyper-V AWS EC2 [6] [7] [8]	AWS^^^^^Gateway-VTL IBM^^^^^ULT3580-TD5

1. Please read through the Best Practice guide for the Gateway-VTL before deployment: <https://www.veritas.com/support/en_US/article.100014745>

2. The Storage Gateway is offered as a service and therefore specific software versions are not available. Please refer to release dates: <http://aws.amazon.com/releasenotes/AWS-Storage-Gateway>

3. For the AWS Storage Gateway-VTL user guide, please refer to: <http://docs.aws.amazon.com/storagegateway/latest/userguide/gateway-vtl.html>

4. Backup Exec Simplified Disaster Recovery (SDR) is not supported.

5. See the Amazon iSCSI VTL section also

6. Please refer to AWS documentation for hypervisor and host requirements: <http://docs.aws.amazon.com/storagegateway/latest/userguide/Requirements.html>

7. For information on the AWS Storage Gateway in EC2 please refer to the following documentation: <https://aws.amazon.com/marketplace/pp/B00AZ4Q6MM>

8. Import operations are limited to 64 tapes at a time. Please see <https://www.veritas.com/support/en_US/article.100043731.html>

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Disk Targets

For this basic support, any device recognized and supported by the Windows platform should work with Backup Exec. Mapped network drives are not supported. UNC paths are supported. The disk devices listed in these two sections have been tested with Backup Exec as a result of a formal joint business agreement and OEM relationship, **but are not intended to be a complete list of compatible devices.**

For "basic" disk storage capabilities, Backup Exec does not exclude or block recognition for disk devices. Basic disk storage devices can be seen in the Disk Storage and Disk Cartridge sections. This information is organized by vendor and provides information on the storage devices tested, the Inquiry Strings (if applicable), the type of interface, media type, and any special notes on a per device basis.

If the desired device is not already listed in this section, customers are encouraged to run the B2D test tool to verify their desired device's level of functionality. If Backup Exec is not already installed, the B2D test tool can be downloaded from <https://www.veritas.com/content/support/en_US/article.100020569.> Instructions for use are in that same technote. Backup Exec Technical Support will be unable to offer assistance if the device experiences failures during the B2Dtest and the customer should contact the hardware vendor for advice and assistance.

Devices running the Windows Unified Data Storage Server OS which provides iSCSI target functionality are supported per the Software Compatibility List. See <http://www.backupexec.com/compatibility> for supported operating system details.

Devices running the Windows Storage Server OS (sometimes referred to as a NAS) can be used as a Backup Exec Media Server if the operating system version is on the Software Compatibility List (SCL). Some examples are the Dell NX3200, the HPE StoreEasy series, and others. If the server meets the prerequisites for adding the Backup Exec Deduplication Option, then that server's local disks can be used for deduplication by that Backup Exec Media Server. See <http://www.backupexec.com/compatibility> for supported operating system details.
If the server vendor supports the server as an iSCSI target, then it can be supported for remote deduplication storage from other Backup Exec Media Servers. Refer to the HCL Disk Storage section for tested systems, but other systems would be supported also. Please see the deduplication best practices document at <https://www.veritas.com/content/support/en_US/doc/72686287-131623464-0/v70445236-131623464>
A server running Windows Storage Server is NOT supported for OpenStorage (OST) target storage use, unless that server/appliance appears in the OST section of the HCL. A server running Windows Storage Server may be used with the Remote Agent for Windows Servers (RAWS) to send data to an OST appliance.

For more advanced disk capabilities, refer to the OST-Appliance section or VSS Providers for Offhost backup sections. The presence of the disk device in these advanced sections is required for support.

Granular Restore Technology (GRT) support, per deduplication type

Deduplication type	GRT support method
Backup Exec Deduplication Disk Storage	Non-GRT and GRT backups are supported and no staging is needed for GRT restores.
Hardware based deduplication OpenStorage appliances	1. Non-GRT and GRT backup are supported but staging is needed at time of GRT restores. Backups will be faster and restores slower (due to staging). 2. Alternately if the device supports it then one can create B2D using CIFS share and then run backups. Backups will be slower but GRT restores will be faster.
NBU50x0 appliance	Non-GRT and GRT backups are supported and no staging is needed for GRT restores.
Pure Disk appliance, also known as Classic Pure Disk	Non-GRT and GRT backups are supported and no staging is needed for GRT restores.

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Disk Storage

The disk devices listed in this section have been tested with Backup Exec, but are not intended to be a complete list of compatible devices.

To clarify: not all supportable disk device are listed in this section. There are simply too many variations to certify them all.

If the desired device is not already listed in this section, customers are encouraged to run the B2D test tool to verify their desired device's level of functionality. If Backup Exec is not already installed, the B2D test tool can be downloaded from <https://www.veritas.com/content/support/en_US/article.100020569.> Instructions for use are in that same technote. Backup Exec Technical Support will be unable to offer assistance if the device experiences failures during the B2Dtest and the customer should contact the hardware vendor for advice and assistance. If you do run B2Dtest on a disk device not listed here, please submit the results to <Backup_Exec_HCL@veritas.com> .

Disk Device Legend

Value	Meaning
Connectivity	The method by which the device communicates with the Backup Exec server.
✔	Character used to denote successful completion of acceptance testing for the item listed in the column.
Basic B2D	Basic functionality of a device as it relates to being used as a Backup-to-Disk device (Disk Storage) in Backup Exec. Backup Exec's Granular Restore Technology (GRT) is not included in Basic B2D.
GRT Tested	Granular Restore Technology (GRT) has been validated specifically for this device. The presence of a checkmark ✔ in this column indicates that no staging is needed for GRT restores. The presence of an "S" in this column indicates that staging may be needed at time of GRT restores. This is typically exhibited with CIFS connectivity.
BEDedup	Backup Exec Deduplication is the native method for deduplication - enabled via an additional "Backup Exec Deduplication Option", and referred to as "Backup Exec Deduplication Disk Storage". Only Local disks may be used for deduplication storage. Removable interfaces like USB and FireWire are also not supported due to the perceived temporary connection method and issues that can arise from a device that is unsafely removed or appears on a different path. For Devices with a supported interface the absence of a check here does not signify that the device will not be supported, merely that deduplication tests have not been run in combination with this device. See comments above regarding, "not intended to be a complete list of compatible devices". The Backup Exec Deduplication Option is recommended for use on a dedicated / non-removable volume as the location to store the deduplication disk storage. For this reason, there are no dedup checkboxes in the Disk Cartridge device section. While possible, the usage of the "Backup Exec Deduplication Option" with USB, FireWire, and remote disks implies the customer is doing so at their own risk and without official Veritas support.

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Amazon

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
AWS Gateway-Cached Volume [1]	iSCSI	✔	✔	AWS Gateway-Cached Volume	

1. This device includes Cloud features. Please see the Amazon Cloud Storage section for specifics.

BlueArc

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Mercury series	CIFS	✔	✔	Mercury 50, Mercury 100	

Buffalo

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
LinkStation 400 Series	CIFS	✔	S	LinkStation 410, LinkStation 420, LinkStation 420s, LinkStation 421, LinkStation 441	
LinkStation Pro/DUO Series	CIFS	✔	S	LinkStation Pro DUO Enclosure, LS-WVL, LS-WXL	
Quad - HD-QLSU2R5	eSATA	✔	✔	Quad - HD-QLSU2R5	✔
TeraStation 3000	CIFS	✔	S	TeraStation 3400, TeraStation 3400r Rackmount	
TeraStation 3000	iSCSI	✔	✔	TeraStation 3400, TeraStation 3400r Rackmount	✔
TeraStation 3010 series	CIFS	✔	S	TeraStation 3210DN, TeraStation 3410DN, TeraStation 3410RN	
TeraStation 3010 series	iSCSI	✔	✔	TeraStation 3210DN, TeraStation 3410DN, TeraStation 3410RN	✔
TeraStation 5000	CIFS	✔	S	TeraStation 5200, TeraStation 5400, TeraStation 5400r Rackmount, TeraStation 5600, TeraStation 5800	
TeraStation 5000	iSCSI	✔	✔	TeraStation 5200, TeraStation 5400, TeraStation 5400r Rackmount, TeraStation 5600, TeraStation 5800	✔
TeraStation 5010 series	CIFS	✔	S	TeraStation 5210DF, TeraStation 5210DN, TeraStation 5410DN, TeraStation 5410RN, TeraStation 5810DN, TeraStation 51210RH	
TeraStation 5010 series	iSCSI	✔	✔	TeraStation 5210DF, TeraStation 5210DN, TeraStation 5410DN, TeraStation 5410RN, TeraStation 5810DN, TeraStation 51210RH	✔
TeraStation 7000	CIFS	✔	S	TeraStation 7120r, TeraStation 7120r Enterprise	
TeraStation 7000	iSCSI	✔	✔	TeraStation 7120r, TeraStation 7120r Enterprise	✔
TeraStation III	CIFS	✔	S	TS-RXL/R5, TS-XL/R5	

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Buffalo

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
TeraStation III iSCSI	iSCSI	✔	✔	TS-IXL/R5, TS-RIXL/R5	✔
TeraStation Pro	CIFS	✔	S	TeraStation Pro	

Dell EMC

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Compellent FS8600	CIFS	✔	S	Compellent FS8600	
Compellent Storage Center 5	Fibre Channel	✔	✔	Compellent Storage Center 5.2, Compellent Storage Center 5.3, Compellent Storage Center 5.4	✔
Compellent Storage Center 5	iSCSI	✔	✔	Compellent Storage Center 5.2, Compellent Storage Center 5.3, Compellent Storage Center 5.4	✔
DL3D series	CIFS	✔	S	DL1500, DL3000	
DR Series	CIFS	✔	S	DR4000, DR4100, DR6000	
EqualLogic FS7500	CIFS	✔	S	EqualLogic FS7500	
EqualLogic FS7600	CIFS	✔	S	EqualLogic FS7600	
EqualLogic FS7610	CIFS	✔	S	EqualLogic FS7610	
EqualLogic PS3000 series	iSCSI	✔	✔	EqualLogic PS3000E, EqualLogic PS3000X, EqualLogic PS3000XV	✔
EqualLogic PS4000 series	iSCSI	✔	✔	EqualLogic PS4000E, EqualLogic PS4000X, EqualLogic PS4000XV, EqualLogic PS4100E, EqualLogic PS4100X, EqualLogic PS4100XV, EqualLogic PS4100XV3.5"	✔
EqualLogic PS5000 series	iSCSI	✔	✔	EqualLogic PS5000E, EqualLogic PS5000X, EqualLogic PS5000XV, EqualLogic PS5500E	✔
EqualLogic PS6000 series	iSCSI	✔	✔	EqualLogic PS6000E, EqualLogic PS6000S, EqualLogic PS6000X, EqualLogic PS6000XV, EqualLogic PS6000XVS, EqualLogic PS6010E, EqualLogic PS6010S, EqualLogic PS6010X, EqualLogic PS6010XV, EqualLogic PS6010XVS, EqualLogic PS6100E, EqualLogic PS6100X, EqualLogic PS6100XV, EqualLogic PS6100XV3.5", EqualLogic PS6500E, EqualLogic PS6500X, EqualLogic PS6500XV, EqualLogic PS6510E, EqualLogic PS6510X, EqualLogic PS6600, EqualLogic PX6100S, EqualLogic PX6100XS	✔
Iomega StorCenter ix series network storage	CIFS	✔	✔	Iomega StorCenter ix2-200, Iomega StorCenter ix4-200d, Iomega StorCenter ix12-300r, Iomega StorCenter Pro ix4-200r	
Iomega StorCenter px series network storage	iSCSI	✔	✔	Iomega StorCenter px4-300d, Iomega StorCenter px4-300r, Iomega StorCenter px6-300d, Iomega StorCenter px12-350r	✔

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Dell EMC

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
PowerVault DL2000	SAS	✔	✔	PowerVault DL2000	✔
PowerVault DL2100	SAS	✔	✔	PowerVault DL2100	✔
PowerVault DL2200	SAS	✔	✔	PowerVault DL2200	✔
PowerVault MD30xx Series	iSCSI	✔	✔	PowerVault MD3000, PowerVault MD3000i	✔
PowerVault MD30xx Series	SAS	✔	✔	PowerVault MD3000, PowerVault MD3000i	✔
PowerVault MD1000	SAS	✔	✔	PowerVault MD1000	✔
PowerVault MD1200	SAS	✔	✔	PowerVault MD1200	✔
PowerVault NX3500	CIFS	✔	S	PowerVault NX3500	
PowerVault NX3600	CIFS	✔	S	PowerVault NX3600	
PowerVault NX3610	CIFS	✔	S	PowerVault NX3610	
VNX2e series	CIFS	✔	✔	VNXe1600, VNXe3200	

Dell EMC Data Domain

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Appliance series	CIFS	✔	S	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	
Virtual Edition (Hyper-V)	CIFS	✔	S	Virtual Edition (Hyper-V)	
Virtual Edition (VMware)	CIFS	✔	S	Virtual Edition (VMware)	

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Drobo

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
5N	CIFS	✔	S	5N	
B800i	iSCSI	✔	✔	B800i	✔
B810i	iSCSI	✔	✔	B810i	✔
B810n	CIFS	✔	S	B810n	
B1200i	iSCSI	✔	✔	B1200i	✔
Drobo	USB	✔	✔	Drobo	
DroboElite	iSCSI	✔	✔	DroboElite	✔
DroboElite	USB	✔	✔	DroboElite	
DroboPro	iSCSI	✔	✔	DroboPro	✔
DroboPro	USB	✔	✔	DroboPro	

Exablox

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
OneBlox	CIFS	✔	✔	OneBlox	

ExaGrid

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
EX series	CIFS	✔	S	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	

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Fujitsu

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
ETERNUS DX100/DX200 series	CIFS	✔	S	ETERNUS AF150 S3, ETERNUS AF250 S2, ETERNUS AF250 S3, ETERNUS DX60 S3, ETERNUS DX60 S5, ETERNUS DX100 S3, ETERNUS DX100 S5, ETERNUS DX200 S3, ETERNUS DX200 S5	
ETERNUS DX500/DX600 series	CIFS	✔	S	ETERNUS AF650 S2, ETERNUS AF650 S3, ETERNUS DX500 S3, ETERNUS DX500 S4, ETERNUS DX500 S5, ETERNUS DX600 S3, ETERNUS DX600 S4, ETERNUS DX600 S5	

H3C

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
CP3310	CIFS	✔	S	CP3310	
CP3352	CIFS	✔	S	CP3352	
CP3354	CIFS	✔	S	CP3354	
CP5510	CIFS	✔	S	CP5510	
CP5550	CIFS	✔	S	CP5550	
CP6660	CIFS	✔	S	CP6660	

Hewlett Packard Enterprise

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
D2D4xxx iSCSI series	iSCSI	✔	✔	D2D4106i Backup System	✔
D2D4xxx series	CIFS	✔	✔	D2D4004fc Backup System, D2D4104fc Backup System, D2D4106fc Backup System, D2D4112 Backup System, D2D4312 Backup System, D2D4324 Backup System	✔
D2D25xx series	CIFS	✔	S	D2D2502i Backup System, D2D2503i Backup System, D2D2504i Backup System	
D2D4100 G2 Backup System	CIFS	✔	S	D2D4106fc G2 Backup System, D2D4106i G2 Backup System, D2D4112 G2 Backup System	
EVA4400/6400/8400 series	Fibre Channel	✔	✔	EVA4400, EVA6400, EVA8400	✔
P2000 G3 MSA series	Fibre Channel	✔	✔	P2000 G3 FC, P2000 G3 FC/iSCSI, P2000 G3 iSCSI, P2000 G3 SAS	✔
P2000 G3 MSA series	iSCSI	✔	✔	P2000 G3 FC, P2000 G3 FC/iSCSI, P2000 G3 iSCSI, P2000 G3 SAS	✔
P2000 G3 MSA series	SAS	✔	✔	P2000 G3 FC, P2000 G3 FC/iSCSI, P2000 G3 iSCSI, P2000 G3 SAS	✔
StoreEasy 1000 series	CIFS	✔	S	StoreEasy 1430, StoreEasy 1440, StoreEasy 1450, StoreEasy 1530, StoreEasy 1540, StoreEasy 1550, StoreEasy 1630, StoreEasy 1640, StoreEasy 1650, StoreEasy 1830, StoreEasy 1840, StoreEasy 1850	
StoreEasy 1000 series	iSCSI	✔	✔	StoreEasy 1430, StoreEasy 1440, StoreEasy 1450, StoreEasy 1530, StoreEasy 1540, StoreEasy 1550, StoreEasy 1630, StoreEasy 1640, StoreEasy 1650, StoreEasy 1830, StoreEasy 1840, StoreEasy 1850	✔

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Hewlett Packard Enterprise

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
StoreEasy 3000 Gateway Blade series	CIFS	✔	S	StoreEasy 3850 Gateway Storage Blade, StoreEasy 3850 WSS2016 Gateway Storage Blade	
StoreEasy 3000 Gateway Blade series	iSCSI	✔	✔	StoreEasy 3850 Gateway Storage Blade, StoreEasy 3850 WSS2016 Gateway Storage Blade	✔
StoreEasy 3000 Gateway series	CIFS	✔	S	StoreEasy 3830 Gateway, StoreEasy 3840 Gateway	
StoreEasy 3000 Gateway series	iSCSI	✔	✔	StoreEasy 3830 Gateway, StoreEasy 3840 Gateway	✔
StoreEasy 5000 series	CIFS	✔	S	StoreEasy 5530	
StoreEasy 5000 series	iSCSI	✔	✔	StoreEasy 5530	✔
StoreOnce 2000 series	CIFS	✔	S	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900	
StoreOnce 3000 series	CIFS	✔	S	StoreOnce 3100	
StoreOnce 3500/3600 series	CIFS	✔	S	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640, StoreOnce 3660	
StoreOnce 4000 series	CIFS	✔	S	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900	
StoreOnce 5000 series	CIFS	✔	S	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5650	
StoreOnce 6000 series	CIFS	✔	S	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200	
StoreOnce VSA (Hyper-V) [1]	CIFS	✔	S	StoreOnce VSA (Hyper-V)	
StoreOnce VSA (VMware) [1]	CIFS	✔	S	StoreOnce VSA (VMware)	

1. StoreOnce VSA is a virtual appliance. For device details and platform support refer to: <https://www.hpe.com/h20195/v2/GetDocument.aspx?docname=c04328820>

Hitachi Vantara

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Capacity Optimization (HCO) [1]	CIFS	✔	S	HCO 210, HCO 230	
Data Ingestor (HDI)	CIFS	✔	S	Data Ingestor (HDI)	
NAS Platform, 4000 and 3000 Series	CIFS	✔	✔	HNAS 3080 (M1), HNAS 3090 (M2), HNAS 4040, HNAS 4060, HNAS 4080, HNAS 4100	
NAS Platform F1000 (HNAS F1000)	CIFS	✔	S	HNAS F1120, HNAS F1140	
SMS/AMS2000 series	Fibre Channel	✔	✔	AMS2100, AMS2300, AMS2500, SMS100	✔
Virtual File Platform (VFP)	CIFS	✔	S	VFP 50, VFP 70, VFP 80, VFP 100N, VFP 110, VFP 200N, VFP 300N, VFP 500N, VFP 600N, VFP 2010, VFP 2100, VFP 2300	

1. GRT is not recommended when the microcode version of HCO is 2.1

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IBM

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
System Storage TS7600 series with ProtecTIER	CIFS	✔	S	System Storage TS7620, System Storage TS7650AP1, System Storage TS7650G	

Imation

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Nexsan E-Series Systems	Fibre Channel	✔	✔	Nexsan E18, Nexsan E48, Nexsan E60	✔
Nexsan E-Series Systems	iSCSI	✔	✔	Nexsan E18, Nexsan E48, Nexsan E60	✔
Nexsan E-Series V Systems	Fibre Channel	✔	✔	Nexsan E18V System, Nexsan E32V System, Nexsan E48V System, Nexsan E60V System	✔
Nexsan E-Series V Systems	iSCSI	✔	✔	Nexsan E18V System, Nexsan E32V System, Nexsan E48V System, Nexsan E60V System	✔
Nexsan NST5000	CIFS	✔	S	Nexsan NST5000	
Nexsan NST5000	iSCSI	✔	✔	Nexsan NST5000	✔
Nexsan NST6000	CIFS	✔	S	Nexsan NST6000	
Nexsan NST6000	iSCSI	✔	✔	Nexsan NST6000	✔

Infortrend

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
EonNAS 3000 series	CIFS	✔	S	EonNAS 3000 series	
EonStor DS FC series	Fibre Channel	✔	✔	EonStor DS FC series	✔
EonStor DS iSCSI series	iSCSI	✔	✔	EonStor DS iSCSI series	✔

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LaCie

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
5big Storage Server	iSCSI	✔	✔	5big Storage Server	✔
12big Rack Network	iSCSI	✔	✔	12big Rack Network	✔
12big Rack Network	USB	✔	✔	12big Rack Network	

Lenovo

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
DS Series	iSCSI	✔	✔	DS2200, DS4200, DS6200	✔

Microsoft

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
StorSimple 8100/8600 series [1]	iSCSI	✔	✔	StorSimple 8100, StorSimple 8600	

1. This device includes Cloud features. Please see the Microsoft StorSimple section for specifics.

NEC

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
HYDRAstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	CIFS	✔	S	HYDRAstor HS3-210, HYDRAstor HS8-2002S, HYDRAstor HS8-2004R, HYDRAstor HS8-2004S, HYDRAstor HS8-2010R, HYDRAstor HS8-2020R, HYDRAstor HS8-2110R, iStorage HS3-20T, iStorage HS8-20R, iStorage HS8-20S	
HYDRAstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	CIFS	✔	S	HYDRAstor HS3-310, HYDRAstor HS8-3002S, HYDRAstor HS8-3004R, HYDRAstor HS8-3004S, HYDRAstor HS8-3010R, HYDRAstor HS8-3020R, HYDRAstor HS8-3110R, iStorage HS3-30T, iStorage HS3-30T2, iStorage HS8-30R, iStorage HS8-30S, NEC Storage HS3-30	
HYDRAstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	CIFS	✔	S	HYDRAstor HS3-410, HYDRAstor HS8-4001S, HYDRAstor HS8-4002S, HYDRAstor HS8-4006R, HYDRAstor HS8-4165, iStorage HS3-40, iStorage HS8-40, NEC Storage HS3-40, NEC Storage HS8-40	

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NetApp

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
AltaVault [1] [2] [3]	CIFS	✔	✔	AVA-400, AVA-800, AVA-c4, AVA-c8, AVA-c16, AVA-v2, AVA-v8, AVA-v16, AVA-v32	

1. Backup Exec Simplified Disaster Recovery (SDR) is not supported. Refer to the NetApp AltaVault docs for recovery instructions.
2. NetApp AltaVault Cloud Integrated Storage Deployment Guide 4.0.1: <https://library.netapp.com/ecm/ecm_download_file/ECMP12510036>
3. This device includes Cloud features. Please see the NetApp Cloud Storage section for specifics.

NETGEAR

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
NV+	CIFS	✔	✔	NV+	
ReadyNAS 100 Series	CIFS	✔	S	ReadyNAS 102, ReadyNAS 104	
ReadyNAS 100 Series	iSCSI	✔	✔	ReadyNAS 102, ReadyNAS 104	✔
ReadyNAS 300 Series	CIFS	✔	S	ReadyNAS 312, ReadyNAS 314, ReadyNAS 316	
ReadyNAS 300 Series	iSCSI	✔	✔	ReadyNAS 312, ReadyNAS 314, ReadyNAS 316	✔
ReadyNAS 500 Series	CIFS	✔	S	ReadyNAS 516	
ReadyNAS 500 Series	iSCSI	✔	✔	ReadyNAS 516	✔
ReadyNAS 700 Series	CIFS	✔	S	ReadyNAS 716	
ReadyNAS 700 Series	iSCSI	✔	✔	ReadyNAS 716	✔
ReadyNAS 1100	CIFS	✔	S	ReadyNAS 1100	
ReadyNAS 2000 Series	CIFS	✔	S	ReadyNAS 2120	
ReadyNAS 2000 Series	iSCSI	✔	✔	ReadyNAS 2120	✔
ReadyNAS 2100	CIFS	✔	S	ReadyNAS 2100	
ReadyNAS 2100	iSCSI	✔	✔	ReadyNAS 2100	✔
ReadyNAS 3000 Series	CIFS	✔	S	ReadyNAS 3220	
ReadyNAS 3000 Series	iSCSI	✔	✔	ReadyNAS 3220	✔
ReadyNAS 3100	CIFS	✔	S	ReadyNAS 3100	
ReadyNAS 3100	iSCSI	✔	✔	ReadyNAS 3100	✔
ReadyNAS 3200	CIFS	✔	S	ReadyNAS 3200	
ReadyNAS 3200	iSCSI	✔	✔	ReadyNAS 3200	✔
ReadyNAS 4000 Series	CIFS	✔	S	ReadyNAS 4220	
ReadyNAS 4000 Series	iSCSI	✔	✔	ReadyNAS 4220	✔

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NETGEAR

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
ReadyNAS 4200	CIFS	✔	S	ReadyNAS 4200	
ReadyNAS 4200	iSCSI	✔	✔	ReadyNAS 4200	✔
ReadyNAS NVX	CIFS	✔	S	ReadyNAS NVX	
ReadyNAS NVX	iSCSI	✔	✔	ReadyNAS NVX	✔
ReadyNAS Pro	CIFS	✔	S	ReadyNAS Pro	
ReadyNAS Pro	iSCSI	✔	✔	ReadyNAS Pro	✔

Nexsan

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
E-Series	Fibre Channel	✔	✔	BEAST, E-Series 18 (E18), E-Series 18P (E18P), E-Series 18V (E18V), E-Series 32V (E32V), E-Series 48 (E48), E-Series 48P (E48P), E-Series 48V (E48V), E-Series 48VT (E48VT), E-Series 60 (E60), E-Series 60P (E60P), E-Series 60V (E60V), E-Series 60VT (E60VT), NST5000, NST6000, SATABeast 2.5	✔
E-Series	iSCSI	✔	✔	BEAST, E-Series 18 (E18), E-Series 18P (E18P), E-Series 18V (E18V), E-Series 32V (E32V), E-Series 48 (E48), E-Series 48P (E48P), E-Series 48V (E48V), E-Series 48VT (E48VT), E-Series 60 (E60), E-Series 60P (E60P), E-Series 60V (E60V), E-Series 60VT (E60VT), NST5000, NST6000, SATABeast 2.5	✔

Oracle

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
ZFS Storage Appliance series	CIFS	✔	S	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	

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Overland Storage

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
SnapServer DX	CIFS	✔	S	SnapServer DX1, SnapServer DX2, SnapServer XSD 40, SnapServer XSR 40, SnapServer XSR 120	
SnapServer DX	iSCSI	✔	✔	SnapServer DX1, SnapServer DX2, SnapServer XSD 40, SnapServer XSR 40, SnapServer XSR 120	✔

Pure Storage

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
FlashBlade	CIFS	✔	S	FlashBlade	

QNAP

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Business NAS series	CIFS	✔	S	TS-809 series, TS-x39 series, TS-x59 series, TS-x69 series, TS-x79 series	
Business NAS series	iSCSI	✔	✔	TS-809 series, TS-x39 series, TS-x59 series, TS-x69 series, TS-x79 series	✔

Quantum

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
DXi4700 Series	CIFS	✔	S	DXi4701	
DXi4800 Series	CIFS	✔	S	DXi4800, DXi4801	
DXi6700 Series	CIFS	✔	S	DXi6700, DXi6701, DXi6702	
DXi6800 Series	CIFS	✔	S	DXi6802	
DXi6900 Series	CIFS	✔	S	DXi6900, DXi6900-S	
DXi8500 Series	CIFS	✔	S	DXi8500, DXi8500 2TB, DXi8500 3TB	
DXi9000 Series	CIFS	✔	S	DXi9000, DXi9100	
DXi V1000 [1]	CIFS	✔	S	DXi V1000	
DXi V4000 [1]	CIFS	✔	S	DXi V4000	

1. This device is a virtual appliance. Representative VMware-supported ESX4, ESXi4, or ESXi5 servers/storage were tested. Refer to <http://downloads.quantum.com/dxiv1000/6-67611-01_DXi_V1000_QuickStartGuide_RevA.pdf>

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Quest

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
DR 11g Series	CIFS	✔	S	DR4000	
DR 12g Series	CIFS	✔	S	DR4100, DR6000	
DR 13g Series	CIFS	✔	S	DR4300, DR4300e, DR6300	

Riverbed

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
SteelStore Series [1] [2] [3]	CIFS	✔	✔	SteelStore 730, SteelStore 2030, SteelStore 3030	
SteelStore Virtual Appliance [1] [2] [3]	CIFS	✔	✔	SteelStore Virtual 110, SteelStore Virtual 210, SteelStore Virtual 410, SteelStore Virtual 810, SteelStore Virtual 1610	
WhiteWater Series [1] [2] [3]	CIFS	✔	✔	WhiteWater 510, WhiteWater 710, WhiteWater 2010, WhiteWater 3010	

1. Backup Exec Simplified Disaster Recovery (SDR) is not supported. Refer to the SteelStore docs for recovery instructions.
2. SteelStore Solution Guide: <http://media-cms.riverbed.com/documents/Solution+Guide+-+SteelStore+with+Backup+Exec+3.1.1.pdf>
3. This device includes Cloud features. Please see the Riverbed Cloud Storage section for specifics.

Synology

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Home to Business Workgroup Value	CIFS	✔	S	DS114, DS116, DS214, DS214play, DS216, DS216play, DS414, DS415play, DS715, DS1515, RS214, RS814	
Home to Business Workgroup Value	iSCSI	✔	✔	DS114, DS116, DS214, DS214play, DS216, DS216play, DS414, DS415play, DS715, DS1515, RS214, RS814	✔
Home to Small Office J	CIFS	✔	S	DS115j, DS213air, DS213j, DS214se, DS216j, DS216se, DS414j, DS414slim, DS416j, DS416slim, DS715	
Home to Small Office J	iSCSI	✔	✔	DS115j, DS213air, DS213j, DS214se, DS216j, DS216se, DS414j, DS414slim, DS416j, DS416slim, DS715	✔
Large Scale Business XS/XS+	CIFS	✔	S	DS365xs, DS2015xs, DS3612xs, RC18015xs+, RS3412RPxs, RS3412xs, RS3413xs+, RS3614RPxs, RS3614xs, RS3614xs+, RS10613xs+, RS18016xs+	
Large Scale Business XS/XS+	iSCSI	✔	✔	DS365xs, DS2015xs, DS3612xs, RC18015xs+, RS3412RPxs, RS3412xs, RS3413xs+, RS3614RPxs, RS3614xs, RS3614xs+, RS10613xs+, RS18016xs+	✔

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Synology

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Small and Medium Business Plus	CIFS	✔	S	DS112+, DS213+, DS214+, DS215+, DS216+, DS216+II, DS412+, DS415+, DS713+, DS716+, DS716+II, DS916+, DS1513+, DS1515+, DS1813+, DS1815+, DS2413+, DS2415+, RS812+, RS812RP+, RS814, RS814+, RS814RP+, RS2414+, RS2414RP+, RS2416+, RS2416RP+, RS2418+, RS2418RP+	
Small and Medium Business Plus	iSCSI	✔	✔	DS112+, DS213+, DS214+, DS215+, DS216+, DS216+II, DS412+, DS415+, DS713+, DS716+, DS716+II, DS916+, DS1513+, DS1515+, DS1813+, DS1815+, DS2413+, DS2415+, RS812+, RS812RP+, RS814, RS814+, RS814RP+, RS2414+, RS2414RP+, RS2416+, RS2416RP+, RS2418+, RS2418RP+	✔

Tandberg

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
BizNAS D400/R400	CIFS	✔	S	BizNAS D400, BizNAS D408, BizNAS R400, BizNAS R408	
BizNAS D400/R400	iSCSI	✔	✔	BizNAS D400, BizNAS D408, BizNAS R400, BizNAS R408	✔
DPS2000 Series NAS	CIFS	✔	S	DPS2040, DPS2140, DPS2142	

Disk Cartridge

The disk devices listed in this section have been tested with Backup Exec, but are not intended to be a complete list of compatible devices.

To clarify: not all supportable disk device are listed in this section. There are simply too many variations to certify them all.

Note: Granular Restore Technology (GRT) is not supported on disk cartridge devices if the backup spans media.

Note: USB 3.0 devices are supported (when available from the vendor).

Note: To view the disk inquiry string: Open Computer Management, Go to Device Manager | Disk drives, Double click on the RDX drive, Click on the Details tab, For the Property drop-down, select ‘Hardware Ids’, View the inquiry string in the Value section

Disk Device Legend

Value	Meaning
^	Character used to denote a space in the INQUIRY STRING.
✔	Character used to denote support for the item listed in the column.
WinBES	The listed device is supported directly attached to a Windows Backup Exec Server platform. See the SCL (<http://www.backupexec.com/compatibility>) for supported Windows Server Operating System platforms.

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actidata

Device	Inquiry String	Drive Interface	Media	WinBES
actiDisk RDX	IMATION^RDX	SATA	disk	✔
actiDisk RDX	IMATION^RDX	USB	disk	✔

BDT

Device	Inquiry String	Drive Interface	Media	WinBES
RDStor	BDT^^^^^RDX	iSCSI	disk	✔

Dell EMC

Device	Inquiry String	Drive Interface	Media	WinBES
RD1000	Dell^^^^RD1000	SATA	disk	✔
RD1000	Dell^^^^RD1000	USB	disk	✔

Hewlett Packard Enterprise

Device	Inquiry String	Drive Interface	Media	WinBES
RDX [1]	HP^^^^^^RDX	USB	disk	✔

1. Requires the use of the HPE RDX utility from <http://www.hp.com/support/rdx> for proper eject functionality.

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IBM

Device	Inquiry String	Drive Interface	Media	WinBES
RDX	IBM^^^^^RDX	USB	disk	✔

Imation

Device	Inquiry String	Drive Interface	Media	WinBES
LR1100 RDX 1U Storage Enclosure	IMATION^RDX-USB3	USB	disk	✔
RDX A8	IMATION^RDX^A8	iSCSI	disk	✔
RDX Removable HDD System	IMATION^RDX	SATA	disk	✔
RDX Removable HDD System	IMATION^RDX	USB	disk	✔
RDX USB 3.0	IMATION^RDX-USB3	USB	disk	✔

Lenovo

Device	Inquiry String	Drive Interface	Media	WinBES
Internal USB RDX	LENOVO^^RDX	USB	disk	✔

ProStor

Device	Inquiry String	Drive Interface	Media	WinBES
RDX	ProStor^RDX	SATA	disk	✔

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Quantum

Device	Inquiry String	Drive Interface	Media	WinBES
RDX	QUANTUM^RDX	USB	disk	✔
RDX 8000	QUANTUM^RDX8000	iSCSI	disk	✔
RDX USB 3.0	QUANTUM^RDX-USB3	USB	disk	✔

Tandberg

Device	Inquiry String	Drive Interface	Media	WinBES
RDX	TANDBERGRDX	SATA	disk	✔
RDX	TANDBERGRDX	USB	disk	✔
RDX QuikStation	VRDX^^^^RMVBL_VDISK	iSCSI	disk	✔
RDX QuikStation 4	VRDX^^^^RMVBL_VDISK	iSCSI	disk	✔
RDX QuikStation 8	VRDX^^^^RMVBL_VDISK	iSCSI	disk	✔
RDX QuikStor External USB3+	TANDBERGRDX	USB	disk	✔

OST-Appliance

OpenStorage Servers are intelligent storage devices that interface to Backup Exec Servers and Remote Agents for Windows (with Direct Access) via the Veritas OpenStorage (OST) API. The vendor supplying the Storage Server appliance provides a software Plug-in, which is installed on each Backup Exec Server and Remote Agent for Windows (with Direct Access) that is attached to the OpenStorage Server.

OST functionality is available on supported Windows Backup Exec 21 Backup Exec Server and Remote Agent for Windows platforms.

Please see the Backup Exec System Administrator's Guide for more information on how to use OST.

Attention: OpenStorage (OST) appliance users: Backup Exec 21 may require a new OST plug-in from your appliance vendor.
Please contact your vendor for access to this new plug-in. If needed, the required Backup Exec 21 plug-in details will be listed as a footnote in the "Storage Server Family" column, per vendor.

Manual duplicate (set copy) for WORM enabled LSU does not show the settings to define the retention values for target LSU. Please refer this link <https://www.veritas.com/content/support/en_US/article.100054710>

In the tables below, "Basic Duplication" refers to server-side or client-side deduplication.

Where support is shown for Windows Server 2008, Windows Server 2012, Windows Server 2016, Windows Server 2019, or Windows Server 2022, please reference the Software Compatibility List (<http://www.backupexec.com/compatibility>) for supported operating system versions.

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Datish Systems (OpenDedup)

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2012	Windows Server 2016	Supported OpenStorage Functionality
SDFS Cloud File System [1] [2] [3] [4] [5]	SDFS Cloud File System	2.1	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication

1. Note: OpenDedupe devices must NOT be shared between BE server nodes, even in an MMS/CAS environment. Do not use the same cloud bucket for two different BE servers. OpenDedupe does not support device sharing at this time. Although BE may allow you to share the device, you must not share it. Corruption of the dedupe data is a likely result.

2. Plugin version 2.1.3.0 is required.

3. SDFS Cloud File System 3.4.10.1 is required.

4. The OpenDedupe OST Plugin is not supported on a Backup Exec Remote Agent. The Opendedupe OST plugin must be used on a Backup Exec Server.

5. Please note: this device is nearing the end of support. Please see the 'Retiring Soon' section .

Dell EMC Data Domain

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	3.4	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	3.5	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.3	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.4	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.5	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.6	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM

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Dell EMC Data Domain

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.7	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.8	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.9	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.10	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.11	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.12	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Appliance series [1] [2] [3] [4] [5] [6]	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	7.13	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	3.4	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	3.5	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.3	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.4	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.5	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.6	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM

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Dell EMC Data Domain

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.7	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.8	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.9	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.10	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.11	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.12	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	7.13	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	3.4	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	3.5	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	7.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	7.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	7.3	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	7.4	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	7.5	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, WORM, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	7.6	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, WORM, Optimized Duplication

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Dell EMC Data Domain

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
Virtual Edition (VMware)	Virtual Edition (VMware)	7.7	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	7.8	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	7.9	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	7.10	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	7.11	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	7.12	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
Virtual Edition (VMware)	Virtual Edition (VMware)	7.13	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM

1. DD6400 is supported with DDOS version 7.7.1 or later. For more info, please refer- <https://www.dell.com/support/kbdoc/en-ae/000195329/datadomain-dd6400-must-be-patched-upgraded-before-being-deployed-ddos-7-7-0-009?lang=en>

2. Governance mode is only supported with WORM enabled Data Domain OST appliance.

3. Refer to the following technote regarding a possible issue with Optimized Duplication (OpDup) not working correctly. <https://www.veritas.com/content/support/en_US/article.100048397>

4. See the Backup Exec sections in the DataDomain OST Admin guide for installation and configuration details. (Data Domain Support account and access to the plug-in releases is required)

5. Support for "WORM" requires BE 21.4 (or higher). See <https://www.veritas.com/content/support/en_US/doc/59226813-151838355-0/index>

6. Use the 7.0 Plug-In with Data Domain OS 7.1. Data Domain did not release a new Plug-In for 7.1.

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Fujitsu

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
ETERNUS CS800 ENTERPRISE [1]	ETERNUS CS800 ENTERPRISE	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
ETERNUS CS800 ENTRY [1]	ETERNUS CS800 ENTRY	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
ETERNUS CS800 M1	ETERNUS CS800 M1	11.0 [2]	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
ETERNUS CS800 Reference Architecture	ETERNUS CS800 Reference Architecture	11.0 [2]	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
ETERNUS CS800 S4 [1]	ETERNUS CS800 S4	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
ETERNUS CS800 S4 [1]	ETERNUS CS800 S4	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
ETERNUS CS800 S5 [1]	ETERNUS CS800 S5	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
ETERNUS CS800 S5 [1]	ETERNUS CS800 S5	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
ETERNUS CS800 S6 [1]	ETERNUS CS800 S6	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
ETERNUS CS800 S6 [1]	ETERNUS CS800 S6	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
ETERNUS CS800 S7 [1]	ETERNUS CS800 S7	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
ETERNUS CS800 SCALE [1]	ETERNUS CS800 SCALE	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication

1. For more information, see <http://support.ts.fujitsu.com/Download/> Then, fill in the following values in the "Driver and Downloads" section: select "Storage solutions", then select "ETERNUS CS/CentricStor", then select "ETERNUS CS800"

2. WORM support requires plug-in version 11.0.0 or later, Fujitsu OS 4.5.2 or later and BE 21.4 or later.

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H3C

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Supported OpenStorage Functionality
CP3352 [1]	CP3352	4.1	Ethernet, Fibre Channel	✔	Basic Deduplication, Optimized Duplication
CP3354 [1]	CP3354	4.1	Ethernet, Fibre Channel	✔	Basic Deduplication, Optimized Duplication
CP5510 [1]	CP5510	4.1	Ethernet, Fibre Channel	✔	Basic Deduplication, Optimized Duplication
CP5550 [1]	CP5550	4.1	Ethernet, Fibre Channel	✔	Basic Deduplication, Optimized Duplication
CP6660 [1]	CP6660	4.1	Fibre Channel, Ethernet	✔	Basic Deduplication, Optimized Duplication

1. Refer to the following technote for FC configuration information. <https://www.veritas.com/support/en_US/article.100041993>

Hewlett Packard Enterprise

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
StoreOnce 2000 series [1]	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900	4.1	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 2000 series [1]	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900	4.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce 2000 series [1]	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce 3000 series [1] [2]	StoreOnce 3100	4.1	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 3000 series [1] [2]	StoreOnce 3100	4.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce 3000 series [1] [2]	StoreOnce 3100	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce 3500/3600 series [1] [2] [3] [4]	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640, StoreOnce 3660	4.1	Ethernet, Fibre Channel	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 3500/3600 series [1] [2] [3] [4]	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640, StoreOnce 3660	4.2	Ethernet, Fibre Channel	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce 3500/3600 series [1] [2] [3] [4]	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640, StoreOnce 3660	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce 4000 series [1] [3] [4]	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900	4.1	Fibre Channel, Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication

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Hewlett Packard Enterprise

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
StoreOnce 4000 series [1] [3] [4]	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900	4.2	Ethernet, Fibre Channel	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce 4000 series [1] [3] [4]	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce 5000 series [1] [2] [3] [4]	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5650	4.1	Ethernet, Fibre Channel	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 5000 series [1] [2] [3] [4]	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5650	4.2	Ethernet, Fibre Channel	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce 5000 series [1] [2] [3] [4]	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5650	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce 6000 series [1] [3] [4]	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200	4.1	Fibre Channel, Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 6000 series [1] [3] [4]	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200	4.2	Ethernet, Fibre Channel	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce 6000 series [1] [3] [4]	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce VSA (Hyper-V) [1] [4] [5]	StoreOnce VSA (Hyper-V)	4.1	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce VSA (Hyper-V) [1] [4] [5]	StoreOnce VSA (Hyper-V)	4.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce VSA (Hyper-V) [1] [4] [5]	StoreOnce VSA (Hyper-V)	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
StoreOnce VSA (VMware) [1] [4] [5]	StoreOnce VSA (VMware)	4.1	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce VSA (VMware) [1] [4] [5]	StoreOnce VSA (VMware)	4.2	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
StoreOnce VSA (VMware) [1] [4] [5]	StoreOnce VSA (VMware)	4.3	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication

1. The HPE v4.1 and v4.2 OST plugins do not support client-side deduplication for systems running the Backup Exec remote agent. This will be addressed by HPE in a future release of the plugin. For now, deduplication from the remote system must be done via server-side.

2. Version 3.14 code is the minimum required for the StoreOnce 3100, 3520, 3540, 5100, or 5500 devices. The code is not backwards compatible with earlier versions of StoreOnce hardware. For more information, please contact Hewlett Packard Enterprise.

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3. Refer to the following technote for FC configuration information. <https://www.veritas.com/support/en_US/article.100041993>

4. There is a capacity reporting issue with early versions of the 4.2 plugin. Please upgrade to 4.2.1.2532 (or greater) or consult HPE about bugs 123275 & 124555

5. StoreOnce VSA is a virtual appliance. For device details and platform support refer to: <https://www.hpe.com/h20195/v2/GetDocument.aspx?docname=c04328820>

Quantum

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
DXi4000 Series [1] [2] [3]	DXi4510, DXi4520, DXi4601	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi4000 Series [1] [2] [3]	DXi4510, DXi4520, DXi4601	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi4000 Series [1] [2] [3]	DXi4510, DXi4520, DXi4601	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi4700 Series [1] [2] [3]	DXi4701	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi4700 Series [1] [2] [3]	DXi4701	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi4700 Series [1] [2] [3]	DXi4701	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi4800 Series [1] [2] [3]	DXi4800, DXi4801	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi4800 Series [1] [2] [3]	DXi4800, DXi4801	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi4800 Series [1] [2] [3]	DXi4800, DXi4801	11.0 [4]	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
DXi6800 Series [1] [2] [3]	DXi6802	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi6800 Series [1] [2] [3]	DXi6802	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi6800 Series [1] [2] [3]	DXi6802	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi6900 Series [1] [2] [3]	DXi6900, DXi6900-S	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi6900 Series [1] [2] [3]	DXi6900, DXi6900-S	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi6900 Series [1] [2] [3]	DXi6900, DXi6900-S	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication

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Quantum

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
DXi7500 Series [1] [2] [3]	DXi7500 Enterprise, DXi7500 Express, DXi7500-N	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi7500 Series [1] [2] [3]	DXi7500 Enterprise, DXi7500 Express, DXi7500-N	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi7500 Series [1] [2] [3]	DXi7500 Enterprise, DXi7500 Express, DXi7500-N	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi9000 Series [1] [2] [3]	DXi9000, DXi9100	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi9000 Series [1] [2] [3]	DXi9000, DXi9100	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi9000 Series [1] [2] [3]	DXi9000, DXi9100	11.0 [4]	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM
DXi V1000 [1] [3] [5]	DXi V1000	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi V1000 [1] [3] [5]	DXi V1000	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi V1000 [1] [3] [5]	DXi V1000	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi V4000 [1] [3] [5]	DXi V4000	2.6.0	Ethernet	✔					Basic Deduplication, Optimized Duplication
DXi V Series [2]	DXi V5000	11.0 [4]	Ethernet		✔	✔	✔	✔	Basic Deduplication, Optimized Duplication, WORM

1. For more information, see <http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugIn/Index.aspx>

2. Quantum DXi OST plugins, version 10.0.0 and above, support 64 bit systems only.

3. The Quantum hostname and storage server name needs to be different to avoid connection issues.

4. WORM support requires plug-in version 11.0.0 or later, Quantum DXi Software 4.6.0 or later and BE 21.4 or later.

5. This device is a virtual appliance. Representative VMware-supported ESX4, ESXi4, or ESXi5 servers/storage were tested. Refer to <http://downloads.quantum.com/dxiv1000/6-67611-01_DXi_V1000_QuickStartGuide_RevA.pdf>

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Quest

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
DR 12g Series [1] [2] [3] [4] [5]	DR4100, DR6000	3.2	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DR 12g Series [1] [2] [3] [4] [5]	DR4100, DR6000	4.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
DR 13g Series [1] [2] [3] [4] [5]	DR4300, DR4300e, DR6300	3.2	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DR 13g Series [1] [2] [3] [4] [5]	DR4300, DR4300e, DR6300	4.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
QoreStor [6] [7] [8]	QoreStor	4.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication

1. Dell EMC has separated/sold the DR appliance division into Quest. Customers should migrate to running newer Quest branded software on the appliance and using the Quest branded plugin. Download Quest stuff from <https://support.quest.com/download-product-select>

2. For 4.0: The Quest packaged 4.x plug-in installer should be used to install the required OST plugin. The Quest packaged 4.0.2 (or newer) plug-in installer now installs two plugin files, one named for Dell and one named for Quest. When configuring storage within Backup Exec 21, and if your DR appliance is running 4.0.2 (or newer), please select the "Quest" provider. The Backup Exec adamm.log will document which plugin is being used in the line "OST Server: DELL:DR4300-HPVxxxx" versus "OST Server: QUEST:DR4300-HPVxxxx". There are no performance differences between the different named plugins. There are no changes to the container on the Quest DR appliance side. The container may be using either the Symantec or the Veritas OST access protocol. In other words: The Dell-named libstspiDellMT.dll works & is supported by Backup Exec 21. The preferred Quest-named libstspiocaMT.dll works & is supported in Backup Exec 21.

3. Please see the Quest Migration Guide for changing Dell containers to Quest containers <https://support.quest.com/download/downloads?id=6084223>

4. Plug-in version 4.1.0.327 (or higher) is required for NEW Backup Exec 21 installations. Older (supported) versions of the plugin (3.2 & 4.0) are acceptable when Backup Exec is upgraded in-place to Backup Exec 21.

5. The 3.2 PLUGINS work with BE 21, but the 3.2 INSTALLER does NOT work with BE 21.

6. Plug-in version 4.1.0.327 (or higher) is required for NEW Backup Exec 21 installations. Older (supported) versions of the plugin (4.1) are acceptable when Backup Exec is upgraded in-place to Backup Exec 21.

7. QoreStor is supported on Linux, ESX & Hyper-V platforms.

8. The Quest packaged 4.x plug-in installer should be used to install the required OST plugin. The Quest packaged 4.0.2 (or newer) plug-in installer now installs two plugin files, one named for Dell and one named for Quest. When configuring storage within Backup Exec 21, please select the "Quest" provider. The Backup Exec adamm.log will document which plugin is being used in the line "OST Server: DELL:hostname:container" versus "OST Server: QUEST:hostname:container". There are no performance differences between the different named plugins. There are no changes to the container on the Quest QoreStor side. The container may be using either the Symantec or the Veritas OST access protocol. In other words: The Dell-named libstspiDellMT.dll works & is supported by Backup Exec 21. The preferred Quest-named libstspiocaMT.dll works & is supported in Backup Exec 21.

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VSS Providers for Offhost backup

This list of tested Volume Shadow Copy Service (VSS) components represents what has been tested in Veritas labs, or in Veritas-supervised partner labs. To ensure compatibility, Veritas, the device manufacturers, and the operating system vendor must support the combination of VSS components. Note: The Backup Exec Advanced Disk Based Backup Option, now part of the Enterprise Server Option, is required for VSS. See the Administrator's Guide for more details on usage of the VSS provider.

Please Note:

1. The provider version and array firmware listed in this section are the **minimum** levels that are supported. Where more than one entry level is listed in these "Minimum" columns, this implies a newer version has been tested. The earlier versions are the minimum versions required. The hardware vendor may specify rules for pairing of the provider and firmware versions.

2. The Array Firmware listed in this section are the **minimum** levels that are supported.

3. The Advanced Open File job options are not supported for use with Dynamic Disk Snapshots.

Dell EMC

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
CLARiiON CX3 series	CLARiiON CX3 Model 10, CLARiiON CX3 Model 20, CLARiiON CX3 Model 40, CLARiiON CX3 Model 80	Fibre Channel	FLARE 26	Solutions Enabler with VSS Provider	4.0.1
CLARiiON CX4 series [1]	CLARiiON CX4 Model 120, CLARiiON CX4 Model 240, CLARiiON CX4 Model 480, CLARiiON CX4 Model 960	Fibre Channel	FLARE 28	Solutions Enabler with VSS Provider	4.1.2
CLARiiON CX series [2]	CLARiiON CX300, CLARiiON CX400, CLARiiON CX500, CLARiiON CX600, CLARiiON CX700	Fibre Channel	02.19.500.5.016	CLARiiON VSS Provider	1.5.0.3.8
CLARiiON CX series [2]	CLARiiON CX300, CLARiiON CX400, CLARiiON CX500, CLARiiON CX600, CLARiiON CX700	Fibre Channel	FLARE 26	Solutions Enabler with VSS Provider	4.0.1
Compellent Storage Center 5	Compellent Storage Center 5.2, Compellent Storage Center 5.3, Compellent Storage Center 5.4	Fibre Channel, iSCSI	5.4.3	Replay Manager VSS Provider	06.00.02.002, 06.01.00.010
Compellent Storage Center 6.5	Compellent Storage Center 6.5	Fibre Channel, iSCSI	6.5.10	Replay Manager VSS Provider	07.00.00.008
EqualLogic PS3000 series	EqualLogic PS3000E, EqualLogic PS3000X, EqualLogic PS3000XV	iSCSI	V4.3.0 (R104535)	VSS Provider	3.3.0.4883
EqualLogic PS4000 series	EqualLogic PS4000E, EqualLogic PS4000X, EqualLogic PS4000XV, EqualLogic PS4100E, EqualLogic PS4100X, EqualLogic PS4100XV, EqualLogic PS4100XV3.5"	iSCSI	V4.3.0 (R104535)	VSS Provider	3.3.0.4883
EqualLogic PS5000 series	EqualLogic PS5000E, EqualLogic PS5000X, EqualLogic PS5000XV, EqualLogic PS5500E	iSCSI	V4.3.0 (R104535)	VSS Provider	3.3.0.4883
EqualLogic PS6000 series	EqualLogic PS6000E, EqualLogic PS6000S, EqualLogic PS6000X, EqualLogic PS6000XV, EqualLogic PS6000XVS, EqualLogic PS6010E, EqualLogic PS6010S, EqualLogic PS6010X, EqualLogic PS6010XV, EqualLogic PS6010XVS, EqualLogic PS6100E, EqualLogic PS6100X, EqualLogic PS6100XV, EqualLogic PS6100XV3.5", EqualLogic PS6500E, EqualLogic PS6500X, EqualLogic PS6500XV, EqualLogic PS6510E, EqualLogic PS6510X, EqualLogic PS6600, EqualLogic PX6100S, EqualLogic PX6100XS	iSCSI	V4.3.0 (R104535)	VSS Provider	3.3.0.4883

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Dell EMC

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
EqualLogic PS series [1]	EqualLogic PS100E	iSCSI	V2.2.3 (R75), V4.0.2 (R83937)	VSS Provider	2.0.0.0, 2.2.1, 3.0, 3.1.2.0
PowerVault MD30xx Series [1] [3]	PowerVault MD3000, PowerVault MD3000i	iSCSI, SAS	06.17.77.60, 7.35.00.00, 06.70.10.60	VSS Provider SmVssProvider	09.17.05, 10.70.08, 09.70.02
PowerVault MD32xx Series [1]	PowerVault MD3200, PowerVault MD3200i, PowerVault MD3220, PowerVault MD3220i	iSCSI, SAS	7.70.00.00	VSS Provider SmVssProvider	10.70.08

1. Only basic disks are supported, per the VSS provider.

2. For the older provider (CLARiiON VSS Provider), only Snapshots are supported. Clones are not supported. The newer provider (Solutions Enabler with VSS Provider) does not have this limitation.

3. The MD3000/MD3000i does not support concurrent multi-volume snapshot (includes Mount Points).

Fujitsu

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
ETERNUS4000 series [1]	ETERNUS4000 Model 80, ETERNUS4000 Model 100, ETERNUS4000 Model 300, ETERNUS4000 Model 400, ETERNUS4000 Model 500, ETERNUS4000 Model 600	Fibre Channel	V20L21-0000	Eternus VSS Hardware Provider	1.3.0
ETERNUS8000 series [1]	ETERNUS8000 Model 700, ETERNUS8000 Model 800, ETERNUS8000 Model 900, ETERNUS8000 Model 1100, ETERNUS8000 Model 1200, ETERNUS8000 Model 2100, ETERNUS8000 Model 2200	Fibre Channel	N/A	Eternus VSS Hardware Provider	1.3.0
ETERNUS DX60/DX80/DX90 series [1] [2] [3]	ETERNUS AF150 S3, ETERNUS AF250 S2, ETERNUS AF250 S3, ETERNUS DX60, ETERNUS DX60 S2, ETERNUS DX60 S3, ETERNUS DX60 S5, ETERNUS DX80, ETERNUS DX80 S2, ETERNUS DX90, ETERNUS DX90 S2, ETERNUS DX100 S5, ETERNUS DX200 S5	Fibre Channel, iSCSI	N/A, V10L22-3000	Eternus VSS Hardware Provider	1.3.0, 2.1.0
ETERNUS DX400 series [1] [2]	ETERNUS AF650 S2, ETERNUS AF650 S3, ETERNUS DX410, ETERNUS DX410 S2, ETERNUS DX440, ETERNUS DX440 S2, ETERNUS DX500 S4, ETERNUS DX500 S5, ETERNUS DX600 S4, ETERNUS DX600 S5	iSCSI	N/A	Eternus VSS Hardware Provider	2.1.0
ETERNUS DX8000 series [1] [2]	ETERNUS DX8100, ETERNUS DX8100 S2, ETERNUS DX8400, ETERNUS DX8700, ETERNUS DX8700 S2	iSCSI	N/A	Eternus VSS Hardware Provider	2.1.0

1. Only basic disks are supported, per the VSS provider.

2. Series S2 platforms require a v2.x provider.

3. The ETERNUS DX60 S2 requires a v1.x provider.

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Hewlett Packard Enterprise

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
2000 G2 series	MSA2312fc, MSA2312i, MSA2312sa, MSA2324fc, MSA2324i, MSA2324sa	Fibre Channel, iSCSI, SAS	M110R21	P2000/MSA2000 VSS Provider	2.7.0.0
EVA4000/6000/8000	EVA4000, EVA6000, EVA8000	Fibre Channel	XCS 5.031	EVA VSS Provider	3.0.6
EVA4100/6100/8100	EVA4100, EVA6100, EVA8100	Fibre Channel, iSCSI	XCS 5.031	EVA VSS Provider	3.0.6
EVA4400/6400/8400 series [1] [2]	EVA4400, EVA6400, EVA8400	Fibre Channel, iSCSI	XCS 9.5011, XCS 9.5012	EVA VSS Provider	4.03.00.02, 5.01.00.02
LeftHand P4000 Virtual San Appliance	LeftHand P4300, LeftHand P4500	iSCSI	8.1.00.0047.0	SAN/iQ Solutions Pack	8.1.00.0047.0
P2000 G3 MSA series	P2000 G3 FC, P2000 G3 FC/iSCSI, P2000 G3 iSCSI, P2000 G3 SAS	Fibre Channel, iSCSI, SAS	TS200R021	P2000/MSA2000 VSS Provider	2.7.0.0

1. Only basic disks are supported, per the VSS provider.

2. The minimum VSS provider for Windows 2008 is 5.01.00.02.

Hitachi Vantara

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
AMS/WMS series	AMS200, AMS500, AMS1000, WMS100	Fibre Channel, iSCSI	0772/D-S	Shadow Copy Provider Software	v3.0.0.0
AMS/WMS series	AMS200, AMS500, AMS1000, WMS100	Fibre Channel	0893/E-X	VSS Hardware Provider	4.3.5
BR1200 [1]	BR1200	Fibre Channel, iSCSI, SAS	7.77.19.00	VSS Provider SmVssProvider	10.77.30
Lightning 9900V series	9970V, 9980	Fibre Channel	21-09-15-00/00	RM ShadowCopy Provider	01-02-03/01
SMS/AMS2000 series [1]	AMS2100, AMS2300, AMS2500, SMS100	Fibre Channel, iSCSI	0843/B-S	RM ShadowCopy Provider	01.01.0003.0000
SMS/AMS2000 series [1]	AMS2100, AMS2300, AMS2500, SMS100	Fibre Channel, iSCSI	1811/A-A, 0843/B-S	Shadow Copy Provider Software	v3.0.0.0, v3.2.0
SMS/AMS2000 series [1]	AMS2100, AMS2300, AMS2500, SMS100		0893/E-X	VSS Hardware Provider	4.3.5

1. Only basic disks are supported, per the VSS provider.

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IBM

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
DS3950 [1]	DS3950	Fibre Channel, iSCSI	7.70.00.00	VSS Provider SmVssProvider	10.70.08
DS5020 [1]	DS5020	Fibre Channel	7.70.00.00	VSS Provider SmVssProvider	10.70.08
System Storage DS3000 series [1]	DS3200, DS3300, DS3400	Fibre Channel, iSCSI, SAS	07.35.42, 7.35.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
System Storage DS3500 series [1]	DCS3700, DS3512, DS3524	Fibre Channel, iSCSI, SAS	7.70.00.00	VSS Provider SmVssProvider	10.70.08
System Storage DS5000 series [1]	DS5100, DS5300	Fibre Channel, iSCSI	7.70.00.00	VSS Provider SmVssProvider	10.70.08
System Storage DS6000 series [2]	DS6000 (1750-511), DS6800	Fibre Channel	5.0.6.0041	TotalStorage Hardware Provider for VSS	2.4.2.0116
System Storage DS8000 series [2]	DS8000, DS8100, DS8300, DS8700, DS8800, DS8870, DS8880	Fibre Channel	5.1	TotalStorage Hardware Provider for VSS	3.2.1.0319
TotalStorage DS4000 series [1] [3]	DS4100 (FAStT100), DS4200, DS4300 (FAStT600), DS4400 (FAStT700), DS4500 (FAStT900), DS4700, DS4800	Fibre Channel	04.10.22.00, 7.60.40.00, 6.60.00.00, 7.60.00.00, 6.12.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08

1. Only basic disks are supported, per the VSS provider.
2. Only Snapshots are supported. Clones are not currently supported.
3. In order to use the ADBO VSS feature, the IBM "Flash Copy" Premium Feature must be purchased.

Imation

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
Nexsan E-Series Systems	Nexsan E18, Nexsan E48, Nexsan E60	Fibre Channel, iSCSI	Q011.1101.7	VSS Hardware Provider	1.6.33
Nexsan E-Series V Systems	Nexsan E18V System, Nexsan E32V System, Nexsan E48V System, Nexsan E60V System	Fibre Channel, iSCSI	R011.1201.3	VSS Hardware Provider	1.6.33
Nexsan NST2000	Nexsan NST2000	iSCSI	N/A	VSS Hardware Provider	1.1.0
Nexsan NST4000	Nexsan NST4000	iSCSI	N/A	VSS Hardware Provider	1.1.0
Nexsan NST5000	Nexsan NST5000	iSCSI	N/A	VSS Hardware Provider	1.1.0
Nexsan NST6000	Nexsan NST6000	iSCSI	3.1.2.55157	VSS Hardware Provider	1.1.0

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LeftHand Networks

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
NSM 150	NSM 150	iSCSI	6.6.00.0099.0	SAN/iQ Solutions Pack	1.3.0.44

LSI Logic

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
Engenio 1932 [1]	Engenio 1932	Fibre Channel	07.35.42.00	VSS Provider SmVssProvider	09.70.06, 10.70.08

1. Only basic disks are supported, per the VSS provider.

NEC

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
iStorage S2000 series [1]	iStorage S2100, iStorage S2300, iStorage S2400, iStorage S2500, iStorage S2800, iStorage S2900	Fibre Channel	010A	Storage VSS Provider - iStorage S/A Series	1.1.1.3

1. Only Replication Control (full copy method) is supported.

Oracle

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
Storage 6580/6780 series [1]	Sun Storage 6580 array, Sun Storage 6780 array	Fibre Channel	7.70.00.00	VSS Provider SmVssProvider	10.70.08
StorageTek 2500 series [1]	StorageTek 2510 array, StorageTek 2530 array, StorageTek 2540 array, Sun Storage 2530-M2 array, Sun Storage 2540-M2 array	Fibre Channel, iSCSI, SAS	6.70.54.11, 7.35.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
StorageTek 6140 array [1] [2]	StorageTek 6140 array	Fibre Channel	07.10.22.00, 7.60.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
Sun Storage 6180 array [1]	Sun Storage 6180 array	Fibre Channel	7.70.00.00	VSS Provider SmVssProvider	10.70.08

1. Only basic disks are supported, per the VSS provider.

2. Requires Sun 'Data Snapshot' Software

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SGI

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
InfiniteStorage 350 [1] [2]	InfiniteStorage 350	Fibre Channel	04.10.22.00, 7.60.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
InfiniteStorage 4000 [1] [2]	InfiniteStorage 4000	Fibre Channel	04.10.22.00, 7.60.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
InfiniteStorage 4500 [2]	InfiniteStorage 4500	Fibre Channel	04.10.22.00	VSS Provider SmVssProvider	09.70.06
TP9500 [1]	TP9500	Fibre Channel	6.60.00.00	VSS Provider SmVssProvider	10.70.08

1. Only basic disks are supported, per the VSS provider.

2. Requires SGI 'SnapCopy' Software

StorageTek

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
FlexLine 200/300 series [1]	FlexLine FLX280, FlexLine FLX380	Fibre Channel	6.60.00.00	VSS Provider SmVssProvider	10.70.08
OPENstorage 9176/9170 [1]	OPENstorage 9176/9170	Fibre Channel	6.12.00.00	VSS Provider SmVssProvider	10.70.08

1. Only basic disks are supported, per the VSS provider.

Sun

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
StorageTek 6130 [1] [2]	StorageTek 6130	Fibre Channel	07.10.22.00, 6.60.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
StorageTek 6540 [1] [2]	StorageTek 6540	Fibre Channel	07.10.22.00, 7.60.00.00	VSS Provider SmVssProvider	09.70.06, 10.70.08
StorageTek 9176 [2]	StorageTek 9176	Fibre Channel	07.10.22.00	VSS Provider SmVssProvider	09.70.06

1. Only basic disks are supported, per the VSS provider.

2. Requires Sun 'Data Snapshot' Software

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Xiotech

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
Magnitude 3D	Magnitude 3D	Fibre Channel	0503	DataScale SP VSS HW Provider	4.1.0.44

Xyratex

Device Family	Device Family Members	Interface	Minimum Array Firmware	Provider Name	Minimum Provider Version
RS-1220	RS-1220	Fibre Channel	N/A	VSS Hardware Provider	0.0.1.01

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Virtual Tape Libraries with Drives

The virtual tape device support information is listed below. This information is organized by vendor and provides information on the level of software tested, inquiry string (vendor ID + product ID), and any other important notes about the hardware and its compatibility.

Please Note:

1. The virtual tape device software listed in this section are the **minimum** software levels that are supported. Where more than one software level is listed, this implies a newer version has been tested. The earlier software version is the minimum version required.

2. Configure the virtual device with the unique inquiry string as listed in this document. Emulating other devices is not supported.

3. For each virtual library only the virtual tape drives that are listed are supported. This information can be found with each virtual section. Other virtual tape drive types are not supported even if the real device is supported with Backup Exec.

4. Do not fill up the disk space on a virtual device. Doing so may cause unpredictable behavior of the device. The device vendor will then have to recover from any errors that result from a full disk.

5. When moving virtual volumes to physical media it works best if the virtual device has a volume size that is dynamic. Make sure that the virtual volume is slightly smaller than the physical volume. When you migrate the data to physical media you will need to ensure that there is enough space on the physical device in order to accommodate the virtual volume size.

6. It is highly recommended that Backup Exec move virtual volumes to physical media so that the data can be restored directly from physical media rather than needing to utilize the virtual device as an intermediary restoration point. If the virtual tape library moves virtual volumes to physical media Backup Exec is not aware of the physical media and may not be able to recover that data directly from that physical media.

7. When a virtual volume becomes overwriteable, the virtual device is not aware that the data is no longer needed. When Backup Exec overwrites that virtual volume the virtual library is aware that the rest of the data is not needed and it can free up the disk space. Because of this, the virtual device may appear to be much closer to capacity than it really is.

8. Tested iSCSI versions of virtual tape libraries are listed in the "iSCSI Solutions" section, under the "SAN Infrastructure components" bookmark. Please reference the limitations listed in that section.

9. The software versions documented here are obtained from the library interface (web or physical) and may not match the firmware version logged in the adamm.log.

10. All VTLs shared with the Linux server(s) must be approved for both RMAL and ESO. Zoning or LUN masking are possible methods of preventing Linux servers from seeing a VTL not approved for RMAL.

Virtual Tape Library/Drive Legend

Value	Meaning
^	Character used to denote a space in the INQUIRY STRING.
✔	Character used to denote support for the item listed in the column.
WinBES	The listed device is supported in a Windows Backup Exec Server platform. Shareability is determined by the ESO column. See the SCL (<http://www.backupexec.com/compatibility>) for supported Backup Exec Server Operating System platforms.
RMAL	The listed device is supported in a Remote Media Agent for Linux platform. Shareability is determined by the ESO column. See the SCL (<http://www.backupexec.com/compatibility>) for supported Remote Media Agent for Linux platforms.
NDMP	The listed device is supported for use with NDMP. See the "NDMP Option" section for platform specific details. Shareability is determined by the ESO column.

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Virtual Tape Library/Drive Legend

Value	Meaning
ESO	The listed device is supported by the Enterprise Server Option using Fibre Channel. ESO refers to WinBES, and optionally RMAL or NDMP.

Contents

Dell EMC | Dell EMC Data Domain | FalconStor
Fujitsu | H3C | Hewlett Packard Enterprise
IBM | NetApp | Overland Storage
Quantum | Quest | SEPATON
Virtual Tape Library Families

Dell EMC

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
CDL300 Series (members)		Fibre Channel	IBM	TotalStorage 3580 Ultrium 1	EMC^^^^^Disk^Library IBM^^^^^ULT3580-TD1	✔		✔	✔
Disk Library Series (members)	2.1.5 build 1175	Fibre Channel	IBM	TotalStorage 3580 Ultrium 1	EMC^^^^^Disk^Library IBM^^^^^ULT3580-TD1	✔	✔	✔	✔
Disk Library Series (members)	2.1.5 build 1175	Fibre Channel	IBM	Ultrium 2	EMC^^^^^Disk^Library IBM^^^^^ULTRIUM-TD2	✔	✔	✔	✔
NDMP2D	5.5	NDMP	Dell EMC	EMC DLT	EMC^^^^^svtlrobot EMC^^^^^svtlDrive			✔	

Dell EMC Data Domain

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Appliance Series (members)	5.3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	D_DOMAINRESTORER_L180 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
Appliance Series (members)	5.3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	D_DOMAINRESTORER_L180 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
Appliance Series (members) [1]	5.5	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	D_DOMAINRESTORER_L180 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔

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Dell EMC Data Domain

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Appliance Series (members)	4.5.1.2	Fibre Channel	IBM	Ultrium 1	D_DOMAINRESTORER_L180 IBM^^^^^ULTRIUM-TD1	✔	✔	✔	✔
Appliance Series (members)	5.3	Fibre Channel	IBM	Ultrium 4	D_DOMAINRESTORER_L180 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
DD400 Series (members) [2]	4.1.5.0	Fibre Channel	IBM	Ultrium 1	D_DOMAINRESTORER_L180 IBM^^^^^ULTRIUM-TD1	✔	✔		✔

1. Both the "D_DOMAINRESTORER_L180" and "EMC^^^^^DDVTL" library inquiry strings are supported when using DDOS 5.5 (or higher).

2. VTLs are not shareable between servers. Each VTL must be configured with LUN masking so that it can only be seen by 1 server to prevent interference.

FalconStor

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
VirtualTape Library (RedHat 5.3 VTL Server Platform)	5.20	Fibre Channel	IBM	Ultrium 3	FALCON^^VTL IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
VirtualTape Library (RedHat 5.3 VTL Server Platform)	5.21	Fibre Channel	IBM	Ultrium 4	FALCON^^VTL IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
VirtualTape Library (RedHat AS Linux VTL Server Platform)	3.00.1047 EE	Fibre Channel	IBM	Ultrium 1	FALCON^^VTL IBM^^^^^ULTRIUM-TD1	✔	✔	✔	✔

Fujitsu

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ETERNUS CS (members) [1] [2]	4.1A4040-SP00-P130	Fibre Channel	IBM	Ultrium 2	FSC^^^^^CS-TL IBM^^^^^ULTRIUM-TD2	✔	✔	✔	✔
ETERNUS CS (members) [1] [2]	5.0A	Fibre Channel	IBM	Ultrium 4	FSC^^^^^CS-TL IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
ETERNUS CS800 S2 [3] [4] [5]	1.4.1_800	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	FSC^^^^^CS-TL HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
ETERNUS CS800 S3 [3] [4] [5]	2.0.2_800, 2.3.0.1_S3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	FSC^^^^^CS-TL HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔

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Fujitsu

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ETERNUS CS800 S4 [3] [4] [5]	2.2, 2.3.0.1_S4	Fibre Channel	IBM	Ultrium 5	FSC^^^^^CS-TL IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
ETERNUS CS800 S5 [3] [4] [5]	2.3.1	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	FSC^^^^^CS-TL HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ETERNUS CS800 S6 [3] [4] [5]	3.2.1	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	FSC^^^^^CS-TL HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ETERNUS CS800 S7 [3] [4] [5]	3.5.0_S7	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	FSC^^^^^CS-TL HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ETERNUS CS800 [3] [4] [5]	1.4.1_800	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	FSC^^^^^CS-TL HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔

1. Capacity and compression reporting is not currently supported for this device.

2. The ETERNUS line was previously known as the CentricStor.

3. Backup Exec supports Fujitsu's Path-to-Tape (PTT) feature available on this VTL. PTT enables Backup Exec duplication jobs to move data directly from virtual tape to physical tape while off-loading the actual copying of data from the Backup Exec server to the VTL. This is referred to as "DirectCopy to tape" in the Backup Exec Administrator's Guide.

4. The default port for Backup Exec remote agents may conflict with the NDMP port used for the Path-to-Tape feature. Refer to the following technote to change the default port: <https://www.veritas.com/content/support/en_US/article.100016014>

5. This VTL also supports the following emulated tape drives: HPE Ultrium 1-SCSI, HPE Ultrium 2-SCSI, HPE Ultrium 3-SCSI, HPE Ultrium 4-SCSI, HPE Ultrium 5-SCSI, IBM ULTRIUM-TD1, IBM ULTRIUM-TD2, IBM ULTRIUM-TD3, IBM ULTRIUM-TD4, and the IBM ULTRIUM-TD5. Older device software versions may not support newer emulated drive generations.

H3C

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
CP3352 [1]	Latest from Manufacturer	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CP3354 [1]	Latest from Manufacturer	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CP5510 [1]	Latest from Manufacturer	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CP5550 [1]	Latest from Manufacturer	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CP6660 [1]	Latest from Manufacturer	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔

1. This VTL also supports HPE LTO2, LTO3, LTO4, and LTO5 tape drive emulation. These combinations are also supported.

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Hewlett Packard Enterprise

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StoreOnce 3500 / 3600 Series (members) [1] [2]		Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StoreOnce 4000 (members) [1] [3]		Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StoreOnce 5000 (members) [1] [2]		Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StoreOnce 6000 (members) [1]	3.0.0-1146.6	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔

1. This VTL also supports HPE LTO2, LTO3, LTO4, and LTO5 tape drive emulation. These combinations are also supported.

2. Version 3.14 code is the minimum required for the StoreOnce 3520, 3540, 5100, & 5500 devices. The code is not backwards compatible with earlier versions of StoreOnce hardware. For more information, please contact Hewlett Packard Enterprise.

3. This VTL also supports HPE LTO3 and HPE LTO2 tape drive emulation. These combinations are also supported.

IBM

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
System Storage TS7600 series with ProtecTIER (members) [1] [2]	2.2.3.16, 3.3.0.0, 3.4.0.0	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	IBM^^^^^V3584L32 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔

1. Capacity and compression reporting is not currently supported for this device.

2. Minimum firmware level of 2.2.3.16 is required.

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NetApp

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
NearStore Virtual Tape Library (members)	4.1.2, 5.2.3 (VTL OS)	Fibre Channel	IBM	Ultrium 2	NETAPP^^VTL IBM^^^^^ULTRIUM-TD2	✔	✔	✔	✔
NearStore Virtual Tape Library (members)	6.0.1P2	Fibre Channel	IBM	Ultrium 4	NETAPP^^VTL IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔

Overland Storage

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
REO 4600		Fibre Channel	Hewlett Packard Enterprise	Ultrium 460 LTO2	OVERLANDREO^Series HP^^^^^^Ultrium^2-SCSI	✔	✔	✔	✔

Quantum

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
DXi4700 Series (members) [1]	2.3.1, 3.0	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	QUANTUM^DXi HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
DXi4800 Series (members) [1] [2] [3]	3.1	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	QUANTUM^DXi HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
DXi6700 Series (members) [1] [2] [3] [4]	1.4.1, 2.0.1, 2.3.0	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	QUANTUM^DXi HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
DXi6800 Series (members) [1] [2] [3]	2.2_68	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	QUANTUM^DXi HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
DXi6900 Series (members) [1] [2] [3]	3.0.0	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	QUANTUM^DXi HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
DXi7500 Series (members) [2] [3] [5]	1.0, 5.1.312b	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	QUANTUM^DXi HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
DXi8500 Series (members) [1] [2] [3]	1.4.2_85, 1.4.5_85	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	QUANTUM^DXi HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
DXi9000 Series (members) [1] [2] [3]	3.1	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	QUANTUM^DXi HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔

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1. This VTL also supports the following emulated tape drives: HP Ultrium 2-SCSI, HP Ultrium 3-SCSI, HP Ultrium 4-SCSI, HP Ultrium 5-SCSI, IBM ULTRIUM-TD2, IBM ULTRIUM-TD3, IBM ULTRIUM-TD4, and the IBM ULTRIUM-TD5.

2. Backup Exec supports Quantum's Path-to-Tape (PTT) feature available on this VTL. PTT enables Backup Exec duplication jobs to move data directly from virtual tape to physical tape while off-loading the actual copying of data from the Backup Exec server to the VTL. This is referred to as "DirectCopy to tape" in the Backup Exec Administrator's Guide.

3. The default port for Backup Exec remote agents may conflict with the NDMP port used for the Path-to-Tape feature. Refer to the following technote to change the default port: <https://www.veritas.com/content/support/en_US/article.100016014>

4. In order to support 2TB capacity expansions for the DXi6700, Quantum DXi Software 2.0.1 (or higher) is required. Please contact Quantum Service OSR@Quantum.com

5. This VTL also supports the following emulated tape drives: HPE Ultrium 1-SCSI, HPE Ultrium 2-SCSI, HPE Ultrium 3-SCSI, HPE Ultrium 4-SCSI, IBM ULTRIUM-TD1, IBM ULTRIUM-TD2, IBM ULTRIUM-TD3, IBM ULTRIUM-TD4, Quantum LTO-2, Quantum LTO-3, Quantum SDLT 600, and the Quantum DLT-S4.

Quest

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
DR 13g Series (Dell) (members) [1]	4.0	Fibre Channel	IBM	TotalStorage 3580 Ultrium 4	DELL^^^^DR_L700 IBM^^^^^ULT3580-TD4	✔			
DR 13g Series (members) [1] [2] [3]	4.0	Fibre Channel	IBM	TotalStorage 3580 Ultrium 4	QUEST^^^DR_L700 IBM^^^^^ULT3580-TD4	✔			

1. Each VTL may only be assigned to a single server (no sharing).

2. Minimum DR software of 4.0.2 is required for the Quest inquiry string.

3. Please see the Quest Migration Guide for changing Dell containers to Quest containers <https://support.quest.com/download/downloads?id=6084223>

SEPATON

Device	Minimum Software Version	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
S2100 (members)	2.1.2	Fibre Channel	IBM	Ultrium 1	SEPATON^S2100 IBM^^^^^ULTRIUM-TD1	✔	✔	✔	✔
S2100 (members)	2.1.2, 5.2.2	Fibre Channel	IBM	Ultrium 3	SEPATON^S2100 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔

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Virtual Tape Library Families

When a hardware family of devices is listed, refer to this section for a definition of family members. Generally speaking, the family name and members are defined by the hardware manufacturer, and share common operational traits. In some cases, a specific member of the family may not be supported in the same fashion as the other members. When this occurs, a footnote in the hardware category section will indentify this limitation.

Dell EMC

Backtrack	Family	Interface	Family Members
Backtrack	CDL300 Series	Fibre Channel	CDL310
Backtrack	Disk Library Series	Fibre Channel	CDL210, CDL300 Series, CDL310, CDL700, CDL700 Series, CDL710, CDL720, CDL740, DL4000 Series, DL6000 Series

Dell EMC Data Domain

Backtrack	Family	Interface	Family Members
Backtrack	Appliance Series	Fibre Channel	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900
Backtrack	DD400 Series	Fibre Channel	DD410, DD430, DD460

Fujitsu

Backtrack	Family	Interface	Family Members
Backtrack	ETERNUS CS	Fibre Channel	ETERNUS CS50, ETERNUS CS500, ETERNUS CS1000, ETERNUS CS1500, ETERNUS CS2000, ETERNUS CS3000, ETERNUS CS4000, ETERNUS CS5000, ETERNUS CS8000

Hewlett Packard Enterprise

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

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IBM

Backtrack	Family	Interface	Family Members
Backtrack	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)

NetApp

Backtrack	Family	Interface	Family Members
Backtrack	NearStore Virtual Tape Library	Fibre Channel	VTL300, VTL600, VTL700, VTL1200, VTL1400

Quantum

Backtrack	Family	Interface	Family Members
Backtrack	DXi4700 Series	Fibre Channel	DXi4701
Backtrack	DXi4800 Series	Fibre Channel	DXi4800
Backtrack	DXi6700 Series	Fibre Channel	DXi6700, DXi6701, DXi6702
Backtrack	DXi6800 Series	Fibre Channel	DXi6802
Backtrack	DXi6900 Series	Fibre Channel	DXi6900, DXi6900-S
Backtrack	DXi7500 Series	Fibre Channel	DXi7500, DXi7500 Enterprise, DXi7500 Express, DXi7500-N
Backtrack	DXi8500 Series	Fibre Channel	DXi8500, DXi8500 2TB, DXi8500 3TB
Backtrack	DXi9000 Series	Fibre Channel	DXi9000, DXi9100

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Quest

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

SEPATON

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

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Tape Drives

The tape drive support information is listed below. This information is organized by vendor and provides information on the tape drives tested, the supported Inquiry Strings, the type of interface, media type, and any special notes on a per device basis.

Please Note:

1. To ensure support, a device must be supported by Veritas and the device manufacturer.

2. Unless otherwise noted, Veritas tape class drivers were used when testing Windows-supported devices.

3. At times the manufacturer may refer to their devices by product name, which differs from the model name.

4. WORM is supported only on tape drives with a footnote indicating WORM support and a possible minimum firmware or software level. These footnotes are documented in this stand-alone tape drive section. To determine if WORM is supported in an automation environment. (i.e. physical tape libraries), please refer to the tape drive manufacturers stand-alone drive section and check for a footnote. If WORM is supported in the manufacturers drive section, then it is supported in all automation, unless documented otherwise in the automation section.

5. Hardware encryption is supported only on tape drives with a footnote indicating hardware encryption support and a possible minimum firmware or software level. These footnotes are documented in this stand-alone tape drive section. To determine if hardware encryption is supported in an automation environment. (i.e. physical tape libraries), please refer to the tape drive manufacturers stand-alone drive section and check for a footnote. If hardware encryption is supported in the manufacturers drive section, then it is supported in all automation, unless documented otherwise in the automation section.

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

7. Unless specifically stated in technote article <https://www.veritas.com/content/support/en_US/article.100021088> , tape libraries or tape drives attached to a RAID controller are not supported.

8. The HPE One Button Disaster Recovery (OBDR) feature is no longer supported with Backup Exec.

9. The LTO ‘Encrypt Only’ feature is currently not supported with any robotic library or tape drive. This new LTO feature is being investigated by Veritas.

10. Backup Exec supports LTO-7 Type M media (also known as M8 cartridges) in the following manner. These are LTO-7 cartridges that have been formatted to a new LTO-8 standard and their native capacity increased from 6TB to 9TB.

• M8 cartridges are only supported with LTO-8 tape drives, either stand-alone tape drives or in an M8 supported tape library.

• M8 cartridges pre-formatted by the media vendor are supported.

• M8 cartridges manually formatted using hardware vendors’ software tools or tape library firmware features (automatic or manual) are supported.

• Backup Exec does NOT have the ability to convert LTO-7 cartridges to M8 format.

• Backup Exec requires version 20 Update 1 (aka 20.1) (or higher) to support hardware encryption on M8 media.

• Backup Exec requires version 20 Update 1 (aka 20.1) (or higher) to provide pre-configured bar code rules and pre-defined media type for M8 cartridges.

• Customers should use caution when re-labeling the bar code on used LTO-7 cartridges as an LTO-7 cartridge with good data could be accidentally erased in a tape library with firmware that automatically re-initializes tapes with M8 bar codes.

• For details on M8 (formatting methods, technical information, supported barcodes, etc.) please consult the tape hardware documentation or vendor.

• For details on M8 please see <https://www.lto.org/technology/typem/>

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Tape Drive Legend

Value	Meaning
^	Character used to denote a space in the INQUIRY STRING.
✔	Character used to denote support for the item listed in the column.
WinBES	The listed device is supported in a Windows Backup Exec Server platform. See the SCL (<http://www.backupexec.com/compatibility>) for supported Backup Exec Server Operating System platforms.
RMAL	The listed device is supported in a Remote Media Agent for Linux platform. See the SCL (<http://www.backupexec.com/compatibility>) for supported Remote Media Agent for Linux platforms.

Contents

actidata | Dell EMC | Hewlett Packard Enterprise
IBM | Imation | Oracle
Quantum | StorageTek | Sun
Tandberg | UNITEX

actidata

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
actiTape LTO3 - Half Height	IBM^^^^^ULT3580-HH3	SCSI	LTO	✔	✔
actiTape LTO4 - Full Height	IBM^^^^^ULT3580-TD4	Fibre Channel	LTO	✔	✔
actiTape LTO4 - Full Height	IBM^^^^^ULT3580-TD4	SCSI	LTO	✔	✔
actiTape LTO4 - Half Height	IBM^^^^^ULT3580-HH4	SAS	LTO	✔	✔
actiTape LTO5 - Full Height	IBM^^^^^ULT3580-TD5	Fibre Channel	LTO	✔	✔
actiTape LTO5 - Full Height	IBM^^^^^ULT3580-TD5	SAS	LTO	✔	✔

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Dell EMC

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
PowerVault 114X series [1]	varies	USB 2.0		✔	
PowerVault 114X series [1]	various^LTO^drives	SAS		✔	
PowerVault LTO-6 [2] [3]	IBM^^^^^ULTRIUM-HH6	SAS	LTO	✔	✔
PowerVault LTO-7 [2] [3]	IBM^^^^^ULTRIUM-HH7	SAS	LTO	✔	✔
PowerVault LTO-8 [2] [3]	IBM^^^^^ULTRIUM-HH8	SAS	LTO	✔	✔
PowerVault LTO-9 [2] [3] [4]	IBM^^^^^ULTRIUM-HH9	SAS	LTO	✔	✔
PowerVault LTO4-120 (Quantum) [2] [3]	QUANTUM^ULTRIUM^4	SAS	LTO	✔	✔
PowerVault LTO4-120 [2] [3]	IBM^^^^^ULTRIUM-TD4	SAS	LTO	✔	✔
PowerVault LTO4-120HH [2] [3]	IBM^^^^^ULTRIUM-HH4	SAS	LTO	✔	✔
PowerVault LTO5-140 [2] [3]	IBM^^^^^ULTRIUM-HH5	SAS	LTO	✔	✔

1. This is a rack mounted enclosure for Dell EMC certified tape drives and should not be confused with actual Dell EMC tape drives.

2. WORM tape is supported with this drive.

3. T10 Hardware Encryption is supported.

4. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

Hewlett Packard Enterprise

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
DAT 160 [1]	HP^^^^^^DAT160	SAS	4mm	✔	✔
DAT 160 [1]	HP^^^^^^DAT160	SCSI	4mm	✔	✔
DAT 160 [1] [2]	HP^^^^^^DAT160	USB 2.0	4mm	✔	
DAT 320 [1] [3]	HP^^^^^^DAT320	SAS	4mm	✔	✔
DAT 320 [1] [2] [3]	HP^^^^^^DAT320	USB 2.0	4mm	✔	
Ultrium 920 LTO3 [1] [4] [5]	HP^^^^^^Ultrium^3-SCSI	SAS	LTO	✔	✔
Ultrium 920 LTO3 [1] [4] [5]	HP^^^^^^Ultrium^3-SCSI	SCSI	LTO	✔	✔
Ultrium 1760 LTO4 [1] [3] [4] [5]	HP^^^^^^Ultrium^4-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 1760 LTO4 [1] [3] [4] [5]	HP^^^^^^Ultrium^4-SCSI	SAS	LTO	✔	✔
Ultrium 1760 LTO4 [1] [3] [4] [5]	HP^^^^^^Ultrium^4-SCSI	SCSI	LTO	✔	✔
Ultrium 1840 LTO4 [1] [3]	HP^^^^^^Ultrium^4-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 1840 LTO4 [1] [3]	HP^^^^^^Ultrium^4-SCSI	SAS	LTO	✔	✔

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Hewlett Packard Enterprise

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
Ultrium 1840 LTO4 [1] [3]	HP^^^^^^Ultrium^4-SCSI	SCSI	LTO	✔	✔
Ultrium 3000 LTO5 [1] [3] [4]	HP^^^^^^Ultrium^5-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 3000 LTO5 [1] [3] [4]	HP^^^^^^Ultrium^5-SCSI	SAS	LTO	✔	✔
Ultrium 3280 LTO5 [1] [3]	HP^^^^^^Ultrium^5-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 3280 LTO5 [1] [3]	HP^^^^^^Ultrium^5-SCSI	SAS	LTO	✔	✔
Ultrium 6250 LTO6 [1] [3] [4]	HP^^^^^^Ultrium^6-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 6250 LTO6 [1] [3] [4]	HP^^^^^^Ultrium^6-SCSI	SAS	LTO	✔	✔
Ultrium 6650 LTO6 [1] [3]	HP^^^^^^Ultrium^6-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 6650 LTO6 [1] [3]	HP^^^^^^Ultrium^6-SCSI	SAS	LTO	✔	✔
Ultrium 15000 LTO7 [1] [3] [4]	HP^^^^^^Ultrium^7-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 15000 LTO7 [1] [3] [4]	HP^^^^^^Ultrium^7-SCSI	SAS	LTO	✔	✔
Ultrium 15750 LTO7 [1] [3]	HP^^^^^^Ultrium^7-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 30750 LTO8 [1] [3] [4]	HPE^^^^^Ultrium^8-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 30750 LTO8 [1] [3] [4]	HPE^^^^^Ultrium^8-SCSI	SAS	LTO	✔	✔
Ultrium 45000 LTO9 [3] [6] [7] [8]	HPE^^^^^Ultrium^9-SCSI	Fibre Channel	LTO	✔	✔
Ultrium 45000 LTO9 [3] [6] [7] [8]	HPE^^^^^Ultrium^9-SCSI	SAS	LTO	✔	✔

1. WORM tape is supported with this drive.

2. For all USB tape drives, the vendor's device driver must be loaded prior to starting Backup Exec.

3. T10 Hardware Encryption is supported.

4. Half-Height drive configuration.

5. Supported in the HPE BladeSystem c-Class chassis.

6. Backup Exec supports internal and external drive configurations. Please refer HPE documentation for more details.

7. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

8. Support requires BE 21.4 Hotfix 215083, available at <https://www.veritas.com/content/support/en_US/downloads/update.UPD215083>

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IBM

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
LTO Gen 3 400/800GB (P/N 25R0012 / 39M5657)	IBM^^^^^ULTRIUM-TD3	SCSI	LTO	✔	✔
LTO Gen 3 HH (P/N 43W8478/3628L3X/3628N3X) [1]	IBM^^^^^HH^LTO^Gen^3	SAS	LTO	✔	✔
LTO Gen 4 HH (P/N 44E8895/3628L4X/3628N4X) [1] [2]	IBM^^^^^HH^LTO^Gen^4	SAS	LTO	✔	✔
LTO Gen 5 HH (P/N 49Y9898/3628L5X/3628N5X) [1] [2]	IBM^^^^^HH^LTO^Gen^5	SAS	LTO	✔	✔
LTO Gen 6 HH (P/N 00D8924) [1] [2]	IBM^^^^^HH^LTO^Gen^6	SAS	LTO	✔	✔
System Storage TS1140 (3592 Model E07) [3] [4]	IBM^^^^^03592E07	Fibre Channel	half inch	✔	✔
System Storage TS1150 (3592 Model E08) [3] [4]	IBM^^^^^03592E08	Fibre Channel	half inch	✔	✔
System Storage TS2230 Ultrium 3 Half Height [1]	IBM^^^^^ULT3580-HH3	SAS	LTO	✔	✔
System Storage TS2230 Ultrium 3 Half Height [1]	IBM^^^^^ULT3580-HH3	SCSI	LTO	✔	✔
System Storage TS2240 Ultrium 4 Half Height [2]	IBM^^^^^ULT3580-HH4	Fibre Channel	LTO	✔	✔
System Storage TS2240 Ultrium 4 Half Height [1] [2]	IBM^^^^^ULT3580-HH4	SAS	LTO	✔	✔
System Storage TS2250 Ultrium 5 Half Height [1] [2]	IBM^^^^^ULT3580-HH5	Fibre Channel	LTO	✔	✔
System Storage TS2250 Ultrium 5 Half Height [1] [2]	IBM^^^^^ULT3580-HH5	SAS	LTO	✔	✔
System Storage TS2260 Ultrium 6 Half Height [1] [2]	IBM^^^^^ULT3580-HH6	Fibre Channel	LTO	✔	✔
System Storage TS2260 Ultrium 6 Half Height [1] [2]	IBM^^^^^ULT3580-HH6	SAS	LTO	✔	✔
System Storage TS2270 Ultrium 7 Half Height [1] [2]	IBM^^^^^ULT3580-HH7	Fibre Channel	LTO	✔	✔
System Storage TS2270 Ultrium 7 Half Height [1] [2]	IBM^^^^^ULT3580-HH7	SAS	LTO	✔	✔
System Storage TS2280 Ultrium 8 Half Height [1] [2]	IBM^^^^^ULT3580-HH8	Fibre Channel	LTO	✔	✔
System Storage TS2280 Ultrium 8 Half Height [1] [2]	IBM^^^^^ULT3580-HH8	SAS	LTO	✔	✔
System Storage TS2290 Ultrium 9 Half Height [2] [5]	IBM^^^^^ULT3580-HH9	Fibre Channel	LTO	✔	
System Storage TS2290 Ultrium 9 Half Height [2] [5]	IBM^^^^^ULT3580-HH9	SAS	LTO	✔	
System Storage TS2340 Ultrium 4 [1] [2]	IBM^^^^^ULT3580-TD4	Fibre Channel	LTO	✔	✔
System Storage TS2340 Ultrium 4 [1] [2]	IBM^^^^^ULT3580-TD4	SAS	LTO	✔	✔
System Storage TS2340 Ultrium 4 [1]	IBM^^^^^ULT3580-TD4	SCSI	LTO	✔	✔
System Storage TS2350 Ultrium 5 [1] [2]	IBM^^^^^ULT3580-TD5	Fibre Channel	LTO	✔	✔
System Storage TS2350 Ultrium 5 [1] [2]	IBM^^^^^ULT3580-TD5	SAS	LTO	✔	✔
System Storage TS2360 Ultrium 6 [1] [2]	IBM^^^^^ULT3580-TD6	Fibre Channel	LTO	✔	✔
System Storage TS2360 Ultrium 6 [1] [2]	IBM^^^^^ULT3580-TD6	SAS	LTO	✔	✔
System Storage TS2370 Ultrium 7 [1] [2]	IBM^^^^^ULT3580-TD7	Fibre Channel	LTO	✔	✔
System Storage TS2380 Ultrium 8 [1] [2]	IBM^^^^^ULT3580-TD8	Fibre Channel	LTO	✔	✔
TotalStorage 3580 Ultrium 3 [6]	IBM^^^^^ULT3580-TD3	Fibre Channel	LTO	✔	✔

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IBM

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
TotalStorage 3580 Ultrium 3 [6]	IBM^^^^^ULT3580-TD3	SCSI	LTO	✔	✔
Ultrium 3 Half Height [6]	IBM^^^^^ULTRIUM-HH3	SAS	LTO	✔	✔
Ultrium 3 Half Height [6]	IBM^^^^^ULTRIUM-HH3	SCSI	LTO	✔	✔
Ultrium 3 [6]	IBM^^^^^ULTRIUM-TD3	Fibre Channel	LTO	✔	✔
Ultrium 3 [6]	IBM^^^^^ULTRIUM-TD3	SCSI	LTO	✔	✔
Ultrium 4 (U160) [1]	IBM^^^^^ULTRIUM-TD4	SCSI	LTO	✔	✔
Ultrium 4 (U320) [1] [2]	IBM^^^^^ULTRIUM-TD4	SCSI	LTO	✔	✔
Ultrium 4 Half Height (U320) [1] [2]	IBM^^^^^ULTRIUM-HH4	SCSI	LTO	✔	✔
Ultrium 4 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH4	Fibre Channel	LTO	✔	✔
Ultrium 4 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH4	SAS	LTO	✔	✔
Ultrium 4 [1] [2]	IBM^^^^^ULTRIUM-TD4	Fibre Channel	LTO	✔	✔
Ultrium 4 [1] [2]	IBM^^^^^ULTRIUM-TD4	SAS	LTO	✔	✔
Ultrium 5 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH5	Fibre Channel	LTO	✔	✔
Ultrium 5 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH5	SAS	LTO	✔	✔
Ultrium 5 [1] [2]	IBM^^^^^ULTRIUM-TD5	Fibre Channel	LTO	✔	✔
Ultrium 5 [1] [2]	IBM^^^^^ULTRIUM-TD5	SAS	LTO	✔	✔
Ultrium 6 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH6	Fibre Channel	LTO	✔	✔
Ultrium 6 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH6	SAS	LTO	✔	✔
Ultrium 6 [1] [2]	IBM^^^^^ULTRIUM-TD6	Fibre Channel	LTO	✔	✔
Ultrium 6 [1] [2]	IBM^^^^^ULTRIUM-TD6	SAS	LTO	✔	✔
Ultrium 7 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH7	Fibre Channel	LTO	✔	✔
Ultrium 7 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH7	SAS	LTO	✔	✔
Ultrium 7 [1] [2]	IBM^^^^^ULTRIUM-TD7	Fibre Channel	LTO	✔	✔
Ultrium 8 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH8	Fibre Channel	LTO	✔	✔
Ultrium 8 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH8	SAS	LTO	✔	✔
Ultrium 8 [1] [2]	IBM^^^^^ULTRIUM-TD8	Fibre Channel	LTO	✔	✔
Ultrium 9 Half Height [2] [5]	IBM^^^^^ULTRIUM-HH9	Fibre Channel	LTO	✔	
Ultrium 9 Half Height [2] [5]	IBM^^^^^ULTRIUM-HH9	SAS	LTO	✔	
Ultrium 9 [2] [5]	IBM^^^^^ULTRIUM-TD9	Fibre Channel	LTO	✔	

1. WORM tape is supported with this drive.
2. T10 Hardware Encryption is supported.
3. Capacity and compression reporting is not currently supported for this device.

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4. WORM tape is not supported with this drive.

5. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

6. WORM tape is supported with initial firmware level 5480

Imation

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
LR1100 LTO 1U Storage Enclosure	varies	SAS		✔	✔
Ultrium 4 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH4	SAS	LTO	✔	✔
Ultrium 5 Half Height [1] [2]	IBM^^^^^ULTRIUM-HH5	SAS	LTO	✔	✔

1. WORM tape is supported with this drive.

2. T10 Hardware Encryption is supported.

Oracle

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
StorageTek T10000D [1]	STK^^^^^T10000D	Fibre Channel	half inch	✔	✔

1. WORM tape is supported with this drive.

Quantum

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
LTO-3 HH [1]	QUANTUM^ULTRIUM^3	Fibre Channel	LTO	✔	✔
LTO-3 HH [1]	QUANTUM^ULTRIUM^3	SAS	LTO	✔	✔
LTO-3 HH [2]	QUANTUM^ULTRIUM^3	SCSI	LTO	✔	✔
LTO-4 HH [1] [3]	QUANTUM^ULTRIUM^4	SAS	LTO	✔	✔
LTO-4 HH [1] [3]	QUANTUM^ULTRIUM^4	SCSI	LTO	✔	✔
LTO-5 FH [1] [3]	QUANTUM^ULTRIUM^5	SAS	LTO	✔	✔
LTO-5 HH [1] [3]	QUANTUM^ULTRIUM^5	SAS	LTO	✔	✔
LTO-6 HH [1] [3]	QUANTUM^ULTRIUM^6	SAS	LTO	✔	✔
Ultrium 4 HH [1] [3]	QUANTUM^ULTRIUM-HH4	SAS	LTO	✔	✔

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Quantum

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
Ultrium 5 HH [1] [3]	QUANTUM^ULTRIUM-HH5	SAS	LTO	✔	✔
Ultrium 6 HH [1] [3]	QUANTUM^ULTRIUM-HH6	SAS	LTO	✔	✔
Ultrium 7 HH [1] [3]	QUANTUM^ULTRIUM-HH7	SAS	LTO	✔	✔
Ultrium 8 HH [1] [3]	QUANTUM^ULTRIUM-HH8	SAS	LTO	✔	✔
Ultrium 9 HH [1] [3] [4]	QUANTUM^ULTRIUM-HH9	SAS	LTO	✔	✔

1. WORM tape is supported with this drive.

2. WORM tape is supported with initial firmware level 1896

3. T10 Hardware Encryption is supported.

4. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

StorageTek

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
T9840C	STK^^^^^T9840C	Fibre Channel	half inch	✔	✔
T10000A 4GB	STK^^^^^T10000A	Fibre Channel	half inch	✔	✔
T10000B	STK^^^^^T10000B	Fibre Channel	half inch	✔	✔
T10000C	STK^^^^^T10000C	Fibre Channel	half inch	✔	✔

Sun

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
LTO3 HH	HP^^^^^^Ultrium^3-SCSI	SAS	LTO	✔	✔
LTO3 HH	HP^^^^^^Ultrium^3-SCSI	SCSI	LTO	✔	✔
LTO4 HH	HP^^^^^^Ultrium^4-SCSI	SAS	LTO	✔	✔
LTO4 HH	HP^^^^^^Ultrium^4-SCSI	SCSI	LTO	✔	✔

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Tandberg

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
840LTO	IBM^^^^^ULTRIUM-TD3	SCSI	LTO	✔	✔
1640LTO [1]	IBM^^^^^ULTRIUM-TD4	SAS	LTO	✔	✔
1640LTO [1]	IBM^^^^^ULTRIUM-TD4	SCSI	LTO	✔	✔
DAT 160 [1]	HP^^^^^^DAT160	SCSI	4mm	✔	✔
DAT 160 [1] [2]	HP^^^^^^DAT160	USB 2.0	4mm	✔	
DAT 320 [1] [3]	HP^^^^^^DAT320	SAS	4mm	✔	✔
DAT 320 [1] [2] [3]	HP^^^^^^DAT320	USB 2.0	4mm	✔	
HH LTO 3 [1]	TANDBERGLTO-3^HH	SAS	LTO	✔	✔
HH LTO 3 [1]	TANDBERGLTO-3^HH	SCSI	LTO	✔	✔
HH LTO 4 [1] [3]	TANDBERGLTO-4^HH	SAS	LTO	✔	✔
HH LTO 4 [1] [3]	TANDBERGLTO-4^HH	SCSI	LTO	✔	✔
HH LTO 5 [1] [3]	TANDBERGLTO-5^HH	Fibre Channel	LTO	✔	✔
HH LTO 5 [1] [3]	TANDBERGLTO-5^HH	SAS	LTO	✔	✔
HH LTO 6 [1] [3]	TANDBERGLTO-6^HH	Fibre Channel	LTO	✔	✔
HH LTO 6 [1] [3]	TANDBERGLTO-6^HH	SAS	LTO	✔	✔

1. WORM tape is supported with this drive.
2. For all USB tape drives, the vendor's device driver must be loaded prior to starting Backup Exec for Windows Servers.
3. T10 Hardware Encryption is supported.

UNITEX

Device	Inquiry String	Drive Interface	Media	WinBES	RMAL
LT40 USB [1] [2]	IBM^^^^^HH^LTO^Gen^4	USB	LTO	✔	
LT50 USB [1] [2]	IBM^^^^^HH^LTO^Gen^5	USB	LTO	✔	
LT60 SAS [2]	IBM^^^^^HH^LTO^Gen^6	SAS	LTO	✔	
LT60 USB [1] [2]	IBM^^^^^HH^LTO^Gen^6	USB	LTO	✔	
LT70H [2]	IBM^^^^^ULTRIUM-HH7	SAS	LTO	✔	
LT70H [1] [2]	IBM^^^^^ULTRIUM-HH7	USB	LTO	✔	
LT80H [2]	IBM^^^^^ULTRIUM-HH8	SAS	LTO	✔	
LT80H [1] [2]	IBM^^^^^ULTRIUM-HH8	USB	LTO	✔	

1. Backup Exec Simplified Disaster Recovery (SDR) is not supported.

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2. T10 Hardware Encryption is supported.

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Tape Libraries with Drives

The library support information is listed below. This information is organized by vendor manufacturer/model, inquiry string (vendor ID + product ID), the interface of the library, and any other important notes or information relevant to the hardware and its compatibility.

Partitioning a library using the library management for sharing between applications and/or servers is a hardware specific feature available in certain library storage systems. Customers using this hardware feature with Backup Exec are supported, but due the variations in design and implementation, technical support is provided in a "reasonable effort" basis only. This means that Veritas Technical Support will work with customers to resolve issues associated only with the Backup Exec portion of the shared configurations, and any issues that cannot be duplicated outside of the shared environment will be the responsibility of the OEM hardware vendor to support.

Please Note:

1. This listing is for library support and the tape drive it was tested with. If a tape library is configured with a drive other than that listed, it has not been tested and will not be supported.

2. Tested iSCSI versions of tape libraries are listed in the "iSCSI Solutions" section, under the "SAN Infrastructure components" bookmark. Please reference the limitations listed in that section.

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

4. Unless specifically stated in technote article <https://www.veritas.com/content/support/en_US/article.100021088> , tape libraries or tape drives attached to a RAID controller are not supported.

5. Libraries or drives with an interface column of "SCSI" require an interface card or bridge to establish a connection to an FC switch. Please see the "SAN Infrastructure components/Fibre Channel Infrastructure/Bridges and Routers" section for supported devices.

6. Please refer to the stand-alone tape drive section (above) and look under the **drive manufacturer** to determine WORM or hardware encryption support status.

7. The LTO ‘Encrypt Only’ feature is currently not supported with any robotic library or tape drive. This new LTO feature is being investigated by Veritas.

Tape Library Legend

Value	Meaning
^	Character used to denote a space in the INQUIRY STRING.
✔	Character used to denote support for the item listed in the column.
WinBES	The listed device is supported in a Windows Backup Exec Server platform. Shareability is determined by the ESO column. See the SCL (<http://www.backupexec.com/compatibility>) for supported Backup Exec Server Operating System platforms.
RMAL	The listed device is supported in a Remote Media Agent for Linux platform. Shareability is determined by the ESO column. See the SCL (<http://www.backupexec.com/compatibility>) for supported Remote Media Agent for Linux platforms.
NDMP	The listed device is supported for use with NDMP. See the "NDMP Option" section for platform specific details. Shareability is determined by the ESO column.
ESO	The listed device is supported by the Enterprise Server Option using Fibre Channel. ESO refers to WinBES, and optionally RMAL or NDMP.

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Contents

actidata	ADIC	BDT
Dell EMC	Fujitsu	H3C
Hewlett Packard Enterprise	Hitachi Vantara	IBM
Imation	NEC	Oracle
Overland Storage	PivotStor	Qualstar
Quantum	Spectra Logic	StorageTek
Sun	Tandberg	Tape Library Families

actidata

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
actiLib series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
actiLib series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
actiLib series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
actiLib series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
actiLib series	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔		
actiLib series	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
actiLib series	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
actiLib series	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔		
actiLib series	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔		
actiLib series	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
actiLib series	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
actiLib series	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
actiLib series	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	

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ADIC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Scalar i500	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
Scalar i500	Fibre Channel	IBM	Ultrium 3	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
Scalar i500 [1]	Fibre Channel	IBM	Ultrium 4	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
Scalar i500 [1]	SAS	IBM	Ultrium 4	SAS	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔		
Scalar i500	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
Scalar i500	SCSI	IBM	Ultrium 3	SCSI	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
Scalar i500 [1]	SCSI	IBM	Ultrium 4 (U160)	SCSI	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	

1. L1 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L2 (or above) barcode labels for cleaning media.

BDT

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
FlexStor II	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
FlexStor II	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
FlexStor II	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
FlexStor II	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
FlexStor II	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
FlexStor II	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔

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BDT

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
FlexStor II	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
FlexStor II	Fibre Channel	IBM	Ultrium 5	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
FlexStor II	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
FlexStor II	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
FlexStor II	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
FlexStor II	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔		
FlexStor II	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
FlexStor II	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
FlexStor II	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔		
FlexStor II	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^5-SCSI	✔	✔		
FlexStor II	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^6-SCSI	✔	✔		
FlexStor II	SAS	IBM	Ultrium 5 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH5	✔	✔		
FlexStor II	SAS	IBM	Ultrium 5	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-TD5	✔	✔		
FlexStor II	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH6	✔	✔		
FlexStor II	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH7	✔	✔		
FlexStor II	SAS	IBM	Ultrium 8 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH8	✔	✔		
FlexStor II	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
FlexStor II	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	

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BDT

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
FlexStor II	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
FlexStor II	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
MultiStak	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	BDT^^^^^MULTISTAK HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
MultiStak	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	BDT^^^^^MULTISTAK HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
MultiStak [1]	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
MultiStak [1]	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
MultiStak	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
MultiStak	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
MultiStak	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	BDT^^^^^MULTISTAK HP^^^^^^Ultrium^5-SCSI	✔	✔		
MultiStak	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	BDT^^^^^MULTISTAK HP^^^^^^Ultrium^6-SCSI	✔	✔		
MultiStak [1]	SAS	IBM	Ultrium 5 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH5	✔	✔		
MultiStak [1]	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔		
MultiStak	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔		
MultiStak	SAS	IBM	Ultrium 8 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH8	✔	✔		
MultiStor	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
MultiStor	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
MultiStor	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
MultiStor [2]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔

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BDT

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
MultiStor	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔		
MultiStor	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔		
MultiStor	SAS	IBM	Ultrium 8 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH8	✔	✔		
MultiStor [2]	SAS	IBM	Ultrium 9 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH9	✔	✔		
ThinStorPlus	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	BDT^^^^^ThinStorPlus^AL HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
ThinStorPlus	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	BDT^^^^^ThinStorPlus^AL IBM^^^^^ULT3580-TD3	✔	✔	✔	
ThinStorPlus SM2	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	BDT^^^^^ThinStorPlus^SM2 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
ThinStorPlus SM2	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	BDT^^^^^ThinStorPlus^SM2 IBM^^^^^ULT3580-TD3	✔	✔	✔	

1. Library firmware of 2.00 or higher is recommended.

2. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

Dell EMC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ML3	Fibre Channel	IBM	System Storage TS2260 Ultrium 6 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔	✔	✔
ML3	Fibre Channel	IBM	System Storage TS2270 Ultrium 7 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔	✔	✔
ML3	Fibre Channel	IBM	System Storage TS2280 Ultrium 8 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔	✔	✔
ML3	Fibre Channel	IBM	System Storage TS2360 Ultrium 6	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD6	✔	✔	✔	✔
ML3	Fibre Channel	IBM	System Storage TS2370 Ultrium 7	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD7	✔	✔	✔	✔

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Dell EMC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ML3	Fibre Channel	IBM	System Storage TS2380 Ultrium 8	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD8	✔	✔	✔	✔
ML3 [1]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
ML3 [1]	Fibre Channel	IBM	Ultrium 9	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-TD9	✔	✔	✔	✔
ML3	SAS	IBM	System Storage TS2260 Ultrium 6 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔		
ML3	SAS	IBM	System Storage TS2270 Ultrium 7 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔		
ML3	SAS	IBM	System Storage TS2280 Ultrium 8 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔		
ML3 [1]	SAS	IBM	Ultrium 9 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH9	✔	✔		
ML3 [1]	SAS	IBM	Ultrium 9	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-TD9	✔	✔		
PowerVault 124T	SAS	IBM	Ultrium 3 Half Height	SAS	DELL^^^^PV-124T IBM^^^^^ULTRIUM-HH3	✔	✔		
PowerVault 124T	SAS	IBM	Ultrium 4 Half Height	SAS	DELL^^^^PV-124T IBM^^^^^ULTRIUM-HH4	✔	✔		
PowerVault 124T	SAS	IBM	Ultrium 4	SAS	DELL^^^^PV-124T IBM^^^^^ULTRIUM-TD4	✔	✔		
PowerVault 124T	SAS	IBM	Ultrium 6 Half Height	SAS	DELL^^^^PV-124T IBM^^^^^ULTRIUM-HH6	✔	✔		
PowerVault 124T	SAS	Quantum	LTO-3 HH	SAS	DELL^^^^PV-124T QUANTUM^ULTRIUM^3	✔	✔		
PowerVault 124T	SAS	Quantum	LTO-4 HH	SAS	DELL^^^^PV-124T QUANTUM^ULTRIUM^4	✔	✔		
PowerVault 124T	SAS	Quantum	LTO-5 FH	SAS	DELL^^^^PV-124T QUANTUM^ULTRIUM^5	✔	✔		
PowerVault 124T	SCSI	IBM	Ultrium 3	SCSI	DELL^^^^PV-124T IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
PowerVault 124T	SCSI	Quantum	LTO-3 HH	SCSI	DELL^^^^PV-124T QUANTUM^ULTRIUM^3	✔	✔	✔	
PowerVault ML6000 Series (members) [2]	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD5	✔	✔	✔	✔

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Dell EMC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
PowerVault ML6000 Series (members)	Fibre Channel	IBM	System Storage TS2360 Ultrium 6	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD6	✔	✔	✔	✔
PowerVault ML6000 Series (members)	Fibre Channel	IBM	System Storage TS2370 Ultrium 7	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD7	✔	✔	✔	✔
PowerVault ML6000 Series (members)	Fibre Channel	IBM	System Storage TS2380 Ultrium 8	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD8	✔	✔	✔	✔
PowerVault ML6000 Series (members)	Fibre Channel	IBM	Ultrium 3	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
PowerVault ML6000 Series (members) [3]	Fibre Channel	IBM	Ultrium 4	Fibre Channel	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
PowerVault ML6000 Series (members)	SAS	IBM	System Storage TS2350 Ultrium 5	SAS	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD5	✔	✔		
PowerVault ML6000 Series (members)	SAS	IBM	System Storage TS2360 Ultrium 6	SAS	ADIC^^^^Scalar^i500 IBM^^^^^ULT3580-TD6	✔	✔		
PowerVault ML6000 Series (members) [3]	SAS	IBM	Ultrium 4	SAS	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔		
PowerVault ML6000 Series (members)	SCSI	IBM	Ultrium 3	SCSI	ADIC^^^^Scalar^i500 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
PowerVault TL1000	SAS	IBM	System Storage TS2240 Ultrium 4 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH4	✔	✔		
PowerVault TL1000	SAS	IBM	System Storage TS2250 Ultrium 5 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH5	✔	✔		
PowerVault TL1000	SAS	IBM	System Storage TS2260 Ultrium 6 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH6	✔	✔		
PowerVault TL1000	SAS	IBM	System Storage TS2270 Ultrium 7 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH7	✔	✔		
PowerVault TL1000	SAS	IBM	System Storage TS2280 Ultrium 8 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH8	✔	✔		
PowerVault TL1000 [1]	SAS	IBM	System Storage TS2290 Ultrium 9 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH9	✔	✔		
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	System Storage TS2240 Ultrium 4 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH4	✔	✔	✔	✔
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	System Storage TS2250 Ultrium 5 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH5	✔	✔	✔	✔
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	System Storage TS2260 Ultrium 6 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔	✔	✔

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Dell EMC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	System Storage TS2270 Ultrium 7 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔	✔	✔
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	System Storage TS2280 Ultrium 8 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔	✔	✔
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	System Storage TS2340 Ultrium 4	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD4	✔	✔	✔	✔
PowerVault TL2000/TL4000 series (members)	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
PowerVault TL2000/TL4000 series (members) [4]	SAS	IBM	System Storage TS2230 Ultrium 3 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH3	✔	✔		
PowerVault TL2000/TL4000 series (members)	SAS	IBM	System Storage TS2240 Ultrium 4 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH4	✔	✔		
PowerVault TL2000/TL4000 series (members) [4]	SAS	IBM	System Storage TS2250 Ultrium 5 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH5	✔	✔		✔
PowerVault TL2000/TL4000 series (members)	SAS	IBM	System Storage TS2260 Ultrium 6 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔		
PowerVault TL2000/TL4000 series (members)	SAS	IBM	System Storage TS2270 Ultrium 7 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔		
PowerVault TL2000/TL4000 series (members)	SAS	IBM	System Storage TS2280 Ultrium 8 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔		
PowerVault TL2000/TL4000 series (members) [4]	SAS	IBM	System Storage TS2340 Ultrium 4	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD4	✔	✔		
PowerVault TL2000/TL4000 series (members) [4]	SAS	IBM	Ultrium 4 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4	✔	✔		
PowerVault TL2000/TL4000 series (members)	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD3	✔	✔	✔	

1. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

2. L1 and L2 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L3 (or above) barcode labels for cleaning media.

3. L1 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L2 (or above) barcode labels for cleaning media.

4. ESO is only supported with the TL24iSCSIxSAS blade.

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Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ETERNUS LT20/40/60 S2 (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members) [1]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members) [1]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT^S2 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT^S2 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members)	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT^S2 IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
ETERNUS LT20/40/60 S2 (members)	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^3-SCSI	✔	✔		
ETERNUS LT20/40/60 S2 (members)	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^4-SCSI	✔	✔		
ETERNUS LT20/40/60 S2 (members) [1]	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^4-SCSI	✔	✔		
ETERNUS LT20/40/60 S2 (members)	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^5-SCSI	✔	✔		
ETERNUS LT20/40/60 S2 (members) [1]	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^5-SCSI	✔	✔		
ETERNUS LT20/40/60 S2 (members)	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	FUJITSU^ETERNUS^LT^S2 HP^^^^^^Ultrium^6-SCSI	✔	✔		
ETERNUS LT20/40/60 S2 (members)	SAS	IBM	Ultrium 6 Half Height	SAS	FUJITSU^ETERNUS^LT^S2 IBM^^^^^ULTRIUM-HH6	✔	✔		
ETERNUS LT20/40/60 S2 (members)	SAS	IBM	Ultrium 7 Half Height	SAS	FUJITSU^ETERNUS^LT^S2 IBM^^^^^ULTRIUM-HH7	✔	✔		
ETERNUS LT20/40/60 S2 (members)	SAS	IBM	Ultrium 8 Half Height	SAS	FUJITSU^ETERNUS^LT^S2 IBM^^^^^ULTRIUM-HH8	✔	✔		
ETERNUS LT140	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔

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Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ETERNUS LT140	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
ETERNUS LT140	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
ETERNUS LT140 [2]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
ETERNUS LT140	SAS	IBM	Ultrium 6 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH6	✔	✔		
ETERNUS LT140	SAS	IBM	Ultrium 7 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH7	✔	✔		
ETERNUS LT140	SAS	IBM	Ultrium 8 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH8	✔	✔		
ETERNUS LT140 [2]	SAS	IBM	Ultrium 9 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH9	✔	✔		
ETERNUS LT260	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	FUJITSU^ETERNUS^LT260 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ETERNUS LT260	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	FUJITSU^ETERNUS^LT260 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
ETERNUS LT260	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
ETERNUS LT260	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
ETERNUS LT260	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
ETERNUS LT260	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	FUJITSU^ETERNUS^LT260 HP^^^^^^Ultrium^5-SCSI	✔	✔		
ETERNUS LT260	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	FUJITSU^ETERNUS^LT260 HP^^^^^^Ultrium^6-SCSI	✔	✔		
ETERNUS LT260	SAS	IBM	Ultrium 6 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH6	✔	✔		
ETERNUS LT260	SAS	IBM	Ultrium 7 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH7	✔	✔		
ETERNUS LT260	SAS	IBM	Ultrium 8 Half Height	SAS	FUJITSU^ETERNUS^LT260 IBM^^^^^ULTRIUM-HH8	✔	✔		
ETERNUS LT270 S2	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	ETERNUS^LT270S2 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔

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Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
ETERNUS LT270 S2	Fibre Channel	IBM	Ultrium 4	Fibre Channel	ETERNUS^LT270S2 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
ETERNUS LT270 S2	Fibre Channel	IBM	Ultrium 5	Fibre Channel	ETERNUS^LT270S2 IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
ETERNUS LT270 S2	Fibre Channel	IBM	Ultrium 6	Fibre Channel	ETERNUS^LT270S2 IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔

1. The ETERNUS LT20 only supports half height drives. The drive referenced in this row is a full height drive.

2. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

H3C

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
CT108	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CT108	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
CT108	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
CT108	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^5-SCSI	✔	✔		
CT108	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^6-SCSI	✔	✔		
CT108	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^7-SCSI	✔	✔		
CT224	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CT224	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
CT224	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
CT224	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		

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H3C

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
CT224	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔		
CT224	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔		
CT448	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CT448	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
CT448	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
CT448	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		
CT448	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔		
CT448	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔		
CT7680	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^MSL6480 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
CT7680	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^MSL6480 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
CT7680	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^MSL6480 HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
CT7680	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL6480 HP^^^^^^Ultrium^5-SCSI	✔	✔		
CT7680	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^MSL6480 HP^^^^^^Ultrium^6-SCSI	✔	✔		
CT7680	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^MSL6480 HP^^^^^^Ultrium^7-SCSI	✔	✔		

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Hewlett Packard Enterprise

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
1/8 G2 Tape Autoloader	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
1/8 G2 Tape Autoloader	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
1/8 G2 Tape Autoloader	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
1/8 G2 Tape Autoloader	Fibre Channel	Hewlett Packard Enterprise	Ultrium 30750 LTO8	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HPE^^^^^Ultrium^8-SCSI	✔	✔	✔	✔
1/8 G2 Tape Autoloader [1] [2]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 45000 LTO9	Fibre Channel	HP^^^^^^1x8^G2^AUTOLDR HPE^^^^^Ultrium^9-SCSI	✔	✔	✔	✔
1/8 G2 Tape Autoloader [3]	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^3-SCSI	✔	✔		
1/8 G2 Tape Autoloader [3]	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^4-SCSI	✔	✔		
1/8 G2 Tape Autoloader [3]	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^5-SCSI	✔	✔		
1/8 G2 Tape Autoloader [3]	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^6-SCSI	✔	✔		
1/8 G2 Tape Autoloader [3]	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^7-SCSI	✔	✔		
1/8 G2 Tape Autoloader [3]	SAS	Hewlett Packard Enterprise	Ultrium 30750 LTO8	SAS	HP^^^^^^1x8^G2^AUTOLDR HPE^^^^^Ultrium^8-SCSI	✔	✔		
1/8 G2 Tape Autoloader [1] [2] [3]	SAS	Hewlett Packard Enterprise	Ultrium 45000 LTO9	SAS	HP^^^^^^1x8^G2^AUTOLDR HPE^^^^^Ultrium^9-SCSI	✔	✔		
1/8 G2 Tape Autoloader [3]	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
1/8 G2 Tape Autoloader [3]	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	HP^^^^^^1x8^G2^AUTOLDR HP^^^^^^Ultrium^4-SCSI	✔	✔		
ESL G3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	HP^^^^^^ESL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
ESL G3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	HP^^^^^^ESL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
ESL G3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	HP^^^^^^ESL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
ESL G3	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15750 LTO7	Fibre Channel	HP^^^^^^ESL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔

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Hewlett Packard Enterprise

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
MSL2024/4048/8048/8096 (G3 series) (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members) [4]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members) [5]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 30750 LTO8	Fibre Channel	HP^^^^^^MSL^G3^Series HPE^^^^^Ultrium^8-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members) [1] [2] [6]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 45000 LTO9	Fibre Channel	HP^^^^^^MSL^G3^Series HPE^^^^^Ultrium^9-SCSI	✔	✔	✔	✔
MSL2024/4048/8048/8096 (G3 series) (members)	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
MSL2024/4048/8048/8096 (G3 series) (members)	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔		✔
MSL2024/4048/8048/8096 (G3 series) (members)	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		
MSL2024/4048/8048/8096 (G3 series) (members)	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^6-SCSI	✔	✔		
MSL2024/4048/8048/8096 (G3 series) (members) [4]	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^7-SCSI	✔	✔		
MSL2024/4048/8048/8096 (G3 series) (members) [5]	SAS	Hewlett Packard Enterprise	Ultrium 30750 LTO8	SAS	HP^^^^^^MSL^G3^Series HPE^^^^^Ultrium^8-SCSI	✔	✔		
MSL2024/4048/8048/8096 (G3 series) (members) [1] [2] [6]	SAS	Hewlett Packard Enterprise	Ultrium 45000 LTO9	SAS	HP^^^^^^MSL^G3^Series HPE^^^^^Ultrium^9-SCSI	✔	✔		
MSL2024/4048/8048/8096 (G3 series) (members)	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
MSL2024/4048/8048/8096 (G3 series) (members)	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
MSL2024/4048/8048/8096 (G3 series) (members)	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	

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Hewlett Packard Enterprise

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
MSL2024/4048/8048/8096 (G3 series) (members)	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
MSL3040	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HPE^MSL3040 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
MSL3040	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HPE^MSL3040 HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
MSL3040	Fibre Channel	Hewlett Packard Enterprise	Ultrium 30750 LTO8	Fibre Channel	HPE^MSL3040 HPE^^^^^Ultrium^8-SCSI	✔	✔	✔	✔
MSL3040 [1] [2]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 45000 LTO9	Fibre Channel	HPE^MSL3040 HPE^^^^^Ultrium^9-SCSI	✔	✔	✔	✔
MSL3040	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HPE^MSL3040 HP^^^^^^Ultrium^6-SCSI	✔	✔		
MSL3040	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HPE^MSL3040 HP^^^^^^Ultrium^7-SCSI	✔	✔		
MSL3040	SAS	Hewlett Packard Enterprise	Ultrium 30750 LTO8	SAS	HPE^MSL3040 HPE^^^^^Ultrium^8-SCSI	✔	✔		
MSL3040 [1] [2]	SAS	Hewlett Packard Enterprise	Ultrium 45000 LTO9	SAS	HPE^MSL3040 HPE^^^^^Ultrium^9-SCSI	✔	✔		
MSL6480	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	HP^^^^^^MSL6480 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
MSL6480	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	HP^^^^^^MSL6480 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
MSL6480	Fibre Channel	Hewlett Packard Enterprise	Ultrium 15000 LTO7	Fibre Channel	HP^^^^^^MSL6480 HP^^^^^^Ultrium^7-SCSI	✔	✔	✔	✔
MSL6480	Fibre Channel	Hewlett Packard Enterprise	Ultrium 30750 LTO8	Fibre Channel	HP^^^^^^MSL6480 HPE^^^^^Ultrium^8-SCSI	✔	✔	✔	✔
MSL6480 [1] [2]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 45000 LTO9	Fibre Channel	HP^^^^^^MSL6480 HPE^^^^^Ultrium^9-SCSI	✔	✔	✔	✔
MSL6480	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL6480 HP^^^^^^Ultrium^5-SCSI	✔	✔		
MSL6480	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	HP^^^^^^MSL6480 HP^^^^^^Ultrium^6-SCSI	✔	✔		
MSL6480	SAS	Hewlett Packard Enterprise	Ultrium 15000 LTO7	SAS	HP^^^^^^MSL6480 HP^^^^^^Ultrium^7-SCSI	✔	✔		
MSL6480	SAS	Hewlett Packard Enterprise	Ultrium 30750 LTO8	SAS	HP^^^^^^MSL6480 HPE^^^^^Ultrium^8-SCSI	✔	✔		

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Hewlett Packard Enterprise

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
MSL6480 [1] [2]	SAS	Hewlett Packard Enterprise	Ultrium 45000 LTO9	SAS	HP^^^^^^MSL6480 HPE^^^^^Ultrium^9-SCSI	✔	✔		

1. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

2. Support requires BE 21.4 Hotfix 215083, available at <https://www.veritas.com/content/support/en_US/downloads/update.UPD215083>

3. Minimum firmware level of 1.20 is required.

4. LTO7 is not supported on MSL8096 & MSL8048

5. LTO8 is not supported on MSL8096 & MSL8048

6. Only MSL2024 supports LTO-9.

Hitachi Vantara

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
L-Series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	STK^^^^^SL150 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
L-Series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	STK^^^^^SL150 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
L-Series (members)	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
L-Series (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
L-Series (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
L-Series (members)	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
L-Series (members)	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	STK^^^^^SL150 HP^^^^^^Ultrium^5-SCSI	✔	✔		
L-Series (members)	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	STK^^^^^SL150 HP^^^^^^Ultrium^6-SCSI	✔	✔		
L-Series (members)	SAS	IBM	Ultrium 5 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH5	✔	✔		
L-Series (members)	SAS	IBM	Ultrium 6 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH6	✔	✔		

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Hitachi Vantara

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
L-Series (members)	SAS	IBM	Ultrium 7 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH7	✔	✔		
L-Series (members)	SAS	IBM	Ultrium 8 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH8	✔	✔		

IBM

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
System Storage TS2900 (Machine Type 3572)	SAS	IBM	System Storage TS2230 Ultrium 3 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH3	✔	✔		
System Storage TS2900 (Machine Type 3572)	SAS	IBM	System Storage TS2240 Ultrium 4 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH4	✔	✔		
System Storage TS2900 (Machine Type 3572) [1]	SAS	IBM	System Storage TS2250 Ultrium 5 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH5	✔	✔		
System Storage TS2900 (Machine Type 3572)	SAS	IBM	System Storage TS2260 Ultrium 6 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH6	✔	✔		
System Storage TS2900 (Machine Type 3572)	SAS	IBM	System Storage TS2270 Ultrium 7 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH7	✔	✔		
System Storage TS2900 (Machine Type 3572)	SAS	IBM	System Storage TS2280 Ultrium 8 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULT3580-HH8	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2240 Ultrium 4 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH4	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2250 Ultrium 5 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH5	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2260 Ultrium 6 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2270 Ultrium 7 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2280 Ultrium 8 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2340 Ultrium 4	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD4	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD5	✔	✔	✔	✔

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IBM

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	System Storage TS2360 Ultrium 6	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD6	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2230 Ultrium 3 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH3	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2240 Ultrium 4 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH4	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2250 Ultrium 5 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH5	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2260 Ultrium 6 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2270 Ultrium 7 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2280 Ultrium 8 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2340 Ultrium 4	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD4	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SAS	IBM	System Storage TS2350 Ultrium 5	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD5	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SCSI	IBM	System Storage TS2230 Ultrium 3 Half Height	SCSI	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH3	✔	✔		
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SCSI	IBM	System Storage TS2340 Ultrium 4	SCSI	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD4	✔	✔	✔	
System Storage TS3100/TS3200 (Machine Type 3573) (members) [2]	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD3	✔	✔	✔	
System Storage TS3310 (Machine Type 3576) [3]	Fibre Channel	IBM	System Storage TS2340 Ultrium 4	Fibre Channel	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD4	✔	✔	✔	✔
System Storage TS3310 (Machine Type 3576) [4]	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD5	✔	✔	✔	✔
System Storage TS3310 (Machine Type 3576)	Fibre Channel	IBM	System Storage TS2360 Ultrium 6	Fibre Channel	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD6	✔	✔	✔	✔
System Storage TS3310 (Machine Type 3576)	Fibre Channel	IBM	System Storage TS2370 Ultrium 7	Fibre Channel	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD7	✔	✔	✔	✔
System Storage TS3310 (Machine Type 3576)	Fibre Channel	IBM	System Storage TS2380 Ultrium 8	Fibre Channel	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD8	✔	✔	✔	✔

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IBM

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
System Storage TS3310 (Machine Type 3576)	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
System Storage TS3310 (Machine Type 3576) [3]	SAS	IBM	System Storage TS2340 Ultrium 4	SAS	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD4	✔	✔		
System Storage TS3310 (Machine Type 3576)	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	IBM^^^^^3576-MTL IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584)	Fibre Channel	IBM	System Storage TS1030 (3588 Model F3B) Ultrium 3	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584) [5] [6] [7]	Fibre Channel	IBM	System Storage TS1140 (3592 Model E07)	Fibre Channel	IBM^^^^^03584 IBM^^^^^03592E07	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584) [5] [6] [8]	Fibre Channel	IBM	System Storage TS1150 (3592 Model E08)	Fibre Channel	IBM^^^^^03584 IBM^^^^^03592E08	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584)	Fibre Channel	IBM	System Storage TS2340 Ultrium 4	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD4	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584) [6]	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD5	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584) [6]	Fibre Channel	IBM	System Storage TS2360 Ultrium 6	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD6	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584) [6]	Fibre Channel	IBM	System Storage TS2370 Ultrium 7	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD7	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584)	Fibre Channel	IBM	System Storage TS2380 Ultrium 8	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD8	✔	✔	✔	✔
System Storage TS3500 (Machine Type 3584)	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	IBM^^^^^03584 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
System Storage TS4300 (Machine Type 3555)	Fibre Channel	IBM	System Storage TS2260 Ultrium 6 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔	✔	✔
System Storage TS4300 (Machine Type 3555)	Fibre Channel	IBM	System Storage TS2270 Ultrium 7 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔	✔	✔
System Storage TS4300 (Machine Type 3555)	Fibre Channel	IBM	System Storage TS2280 Ultrium 8 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔	✔	✔
System Storage TS4300 (Machine Type 3555) [9]	Fibre Channel	IBM	System Storage TS2290 Ultrium 9 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH9	✔			
System Storage TS4300 (Machine Type 3555)	Fibre Channel	IBM	System Storage TS2360 Ultrium 6	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD6	✔	✔	✔	✔
System Storage TS4300 (Machine Type 3555)	Fibre Channel	IBM	System Storage TS2370 Ultrium 7	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD7	✔	✔	✔	✔

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IBM

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
System Storage TS4300 (Machine Type 3555)	Fibre Channel	IBM	System Storage TS2380 Ultrium 8	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULT3580-TD8	✔	✔	✔	✔
System Storage TS4300 (Machine Type 3555)	SAS	IBM	System Storage TS2260 Ultrium 6 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH6	✔	✔		
System Storage TS4300 (Machine Type 3555)	SAS	IBM	System Storage TS2270 Ultrium 7 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH7	✔	✔		
System Storage TS4300 (Machine Type 3555)	SAS	IBM	System Storage TS2280 Ultrium 8 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH8	✔	✔		
System Storage TS4300 (Machine Type 3555) [9]	SAS	IBM	System Storage TS2290 Ultrium 9 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULT3580-HH9	✔	✔		

1. Minimum firmware levels of 0018 are required for the library and B171 for the drive.

2. IBM markets this under two names, with and without the words "Express Model". They are identical and both are supported.

3. L1 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L2 (or above) barcode labels for cleaning media.

4. L1 and L2 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L3 (or above) barcode labels for cleaning media.

5. Capacity and compression reporting is not currently supported for this device.

6. Due to IBM ALMS virtualizing the tape slots: the tapes are not in the slot order as they appear in the BE GUI and the cleaning tapes are not visible to BE. Therefore drive cleaning must be done via the library itself.

7. For optimal performance, do not mix generations of 3592 drives in a single logical library. Media problems can result when different drive generations are mixed. Please see <http://www-01.ibm.com/support/docview.wss?uid=swg21570099>

8. For optimal performance, do not mix generations of 3592 drives in a single logical library. Media problems can result when different drive generations are mixed. Please see <http://www-01.ibm.com/support/docview.wss?uid=swg21687064>

9. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

Imation

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
L1200 LTO 2U Tape Library	Fibre Channel	IBM	Ultrium 4 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4	✔	✔	✔	✔
L1200 LTO 2U Tape Library	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
L1200 LTO 2U Tape Library	SAS	IBM	Ultrium 4 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4	✔	✔		

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Imation

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
L1200 LTO 2U Tape Library	SAS	IBM	Ultrium 5 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH5	✔	✔		
L1400 LTO 4U Tape Library	Fibre Channel	IBM	Ultrium 4 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4	✔	✔	✔	✔
L1400 LTO 4U Tape Library	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
L1400 LTO 4U Tape Library	SAS	IBM	Ultrium 4 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4	✔	✔		
L1400 LTO 4U Tape Library	SAS	IBM	Ultrium 5 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH5	✔	✔		

NEC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
LL009F	SAS	IBM	System Storage TS2250 Ultrium 5 Half Height	SAS	NEC^^^^^LL009F IBM^^^^^ULT3580-HH5	✔	✔		
LL009F [1]	SAS	IBM	Ultrium 3 Half Height	SAS	NEC^^^^^LL009F IBM^^^^^ULTRIUM-HH3	✔	✔		
LL009F [1]	SAS	IBM	Ultrium 4 Half Height	SAS	NEC^^^^^LL009F IBM^^^^^ULTRIUM-HH4	✔	✔		
LL009F	SAS	IBM	Ultrium 6 Half Height	SAS	NEC^^^^^LL009F IBM^^^^^ULTRIUM-HH6	✔	✔		
LL009F	SAS	IBM	Ultrium 7 Half Height	SAS	NEC^^^^^LL009F IBM^^^^^ULTRIUM-HH7	✔	✔		
LL009F	SAS	IBM	Ultrium 8 Half Height	SAS	NEC^^^^^LL009F IBM^^^^^ULTRIUM-HH8	✔	✔		
T30A/T60A (members)	Fibre Channel	IBM	Ultrium 4 Half Height	Fibre Channel	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH4	✔	✔	✔	✔
T30A/T60A (members)	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
T30A/T60A (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
T30A/T60A (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔

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NEC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
T30A/T60A (members)	SAS	IBM	Ultrium 3 Half Height	SAS	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH3	✔	✔		
T30A/T60A (members)	SAS	IBM	Ultrium 4 Half Height	SAS	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH4	✔	✔		
T30A/T60A (members)	SAS	IBM	Ultrium 5 Half Height	SAS	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH5	✔	✔		
T30A/T60A (members)	SAS	IBM	Ultrium 6 Half Height	SAS	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH6	✔	✔		
T30A/T60A (members)	SAS	IBM	Ultrium 7 Half Height	SAS	NEC^^^^^LL-2B01 IBM^^^^^ULTRIUM-HH7	✔	✔		
T280 (Machine Type 3555)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
T280 (Machine Type 3555)	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
T280 (Machine Type 3555) [2]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
T280 (Machine Type 3555)	SAS	IBM	Ultrium 7 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH7	✔	✔		
T280 (Machine Type 3555)	SAS	IBM	Ultrium 8 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH8	✔	✔		
T280 (Machine Type 3555) [2]	SAS	IBM	Ultrium 9 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH9	✔	✔		

1. T10 Hardware Encryption is supported with library firmware 0002 and above.

2. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

Oracle

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageTek SL150	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	STK^^^^^SL150 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageTek SL150	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	STK^^^^^SL150 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔

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Oracle

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageTek SL150	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
StorageTek SL150	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
StorageTek SL150	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
StorageTek SL150	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
StorageTek SL150	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH9	✔	✔		✔
StorageTek SL150	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	STK^^^^^SL150 HP^^^^^^Ultrium^5-SCSI	✔	✔		
StorageTek SL150	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	STK^^^^^SL150 HP^^^^^^Ultrium^6-SCSI	✔	✔		
StorageTek SL150	SAS	IBM	Ultrium 5 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH5	✔	✔		
StorageTek SL150	SAS	IBM	Ultrium 6 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH6	✔	✔		
StorageTek SL150	SAS	IBM	Ultrium 7 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH7	✔	✔		
StorageTek SL150	SAS	IBM	Ultrium 8 Half Height	SAS	STK^^^^^SL150 IBM^^^^^ULTRIUM-HH8	✔	✔		
StorageTek SL500	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	STK^^^^^SL500 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
StorageTek SL3000	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	STK^^^^^SL3000 HP^^^^^^Ultrium^4-SCSI	✔			✔
StorageTek SL3000	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	STK^^^^^SL3000 HP^^^^^^Ultrium^5-SCSI	✔			✔
StorageTek SL3000	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	STK^^^^^SL3000 HP^^^^^^Ultrium^6-SCSI	✔			✔
StorageTek SL3000	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULT3580-TD5	✔			✔
StorageTek SL3000	Fibre Channel	IBM	Ultrium 4	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD4	✔			✔
StorageTek SL3000	Fibre Channel	IBM	Ultrium 5	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD5	✔			✔

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Oracle

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageTek SL3000	Fibre Channel	IBM	Ultrium 6	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD6	✔			✔
StorageTek SL3000	Fibre Channel	IBM	Ultrium 7	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD7	✔			✔
StorageTek SL3000	Fibre Channel	IBM	Ultrium 8	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD8	✔	✔	✔	✔
StorageTek SL3000	Fibre Channel	Oracle	StorageTek T9840D	Fibre Channel	STK^^^^^SL3000 STK^^^^^T9840D	✔			✔
StorageTek SL3000	Fibre Channel	Oracle	StorageTek T10000A	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000A	✔			✔
StorageTek SL3000	Fibre Channel	Oracle	StorageTek T10000B	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000B	✔			✔
StorageTek SL3000	Fibre Channel	Oracle	StorageTek T10000C	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000C	✔			✔
StorageTek SL3000	Fibre Channel	Oracle	StorageTek T10000D	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000D	✔			✔
StorageTek SL3000	Fibre Channel	Oracle	T9840C	Fibre Channel	STK^^^^^SL3000 STK^^^^^T9840C	✔			✔
StorageTek SL4000	Fibre Channel	IBM	Ultrium 7	Fibre Channel	STK^^^^^SL4000 IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
StorageTek SL4000	Fibre Channel	IBM	Ultrium 8	Fibre Channel	STK^^^^^SL4000 IBM^^^^^ULTRIUM-TD8	✔	✔	✔	✔

Overland Storage

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
NEO E-Series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	OVERLANDNEO^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
NEO E-Series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	OVERLANDNEO^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
NEO E-Series (members)	Fibre Channel	IBM	Ultrium 4	Fibre Channel	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
NEO E-Series (members)	Fibre Channel	IBM	Ultrium 5	Fibre Channel	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔

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Overland Storage

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
NEO E-Series (members)	Fibre Channel	IBM	Ultrium 6	Fibre Channel	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
NEO E-Series (members)	Fibre Channel	IBM	Ultrium 7	Fibre Channel	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
NEO E-Series (members)	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	OVERLANDNEO^Series HP^^^^^^Ultrium^4-SCSI	✔	✔		
NEO E-Series (members)	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	OVERLANDNEO^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		
NEO E-Series (members)	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	OVERLANDNEO^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		
NEO E-Series (members)	SAS	IBM	Ultrium 4	SAS	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD4	✔	✔		
NEO E-Series (members)	SAS	IBM	Ultrium 5	SAS	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD5	✔	✔		
NEO E-Series (members)	SAS	IBM	Ultrium 6	SAS	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD6	✔	✔		
NEO E-Series (members)	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	OVERLANDNEO^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
NEO E-Series (members)	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	OVERLANDNEO^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
NEO E-Series (members)	SCSI	IBM	Ultrium 4 (U320)	SCSI	OVERLANDNEO^Series IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
NEOs series 3rd Generation (members)	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
NEOs series 3rd Generation (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
NEOs series 3rd Generation (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
NEOs series 3rd Generation (members)	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
NEOs series 3rd Generation (members) [1]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
NEOs series 3rd Generation (members)	SAS	IBM	Ultrium 5 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH5	✔	✔		
NEOs series 3rd Generation (members)	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH6	✔	✔		

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Overland Storage

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
NEOs series 3rd Generation (members)	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH7	✔	✔		
NEOs series 3rd Generation (members)	SAS	IBM	Ultrium 8 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH8	✔	✔		
NEOs series 3rd Generation (members) [1]	SAS	IBM	Ultrium 9 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH9	✔	✔		
NEOxl series (members)	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔
NEOxl series (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
NEOxl series (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
NEOxl series (members)	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
NEOxl series (members) [1]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
NEOxl series (members)	SAS	IBM	Ultrium 5 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH5	✔	✔		
NEOxl series (members)	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔		
NEOxl series (members)	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔		
NEOxl series (members)	SAS	IBM	Ultrium 8 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH8	✔	✔		
NEOxl series (members) [1]	SAS	IBM	Ultrium 9 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH9	✔	✔		

1. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

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PivotStor

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
AP TL2000 2U	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
AP TL2000 2U	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
AP TL4000 4U	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
AP TL4000 4U	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
AP TL8000 8U	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔		
AP TL8000 8U	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	BDT^^^^^FlexStor^II HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	

Qualstar

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Q24/Q48 (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
Q24/Q48 (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
Q24/Q48 (members)	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH6	✔	✔		
Q24/Q48 (members)	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^FlexStor^II IBM^^^^^ULTRIUM-HH7	✔	✔		
Q80	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
Q80	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
Q80	SAS	IBM	Ultrium 6 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH6	✔	✔		
Q80	SAS	IBM	Ultrium 7 Half Height	SAS	BDT^^^^^MULTISTAK IBM^^^^^ULTRIUM-HH7	✔	✔		
RLS-8500 LTO series (members)	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	QUALSTARRLS-85 IBM^^^^^ULTRIUM-HH5	✔	✔	✔	✔

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Qualstar

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
RLS-8500 LTO series (members)	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	QUALSTARRLS-85 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
RLS-8500 LTO series (members)	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	QUALSTARRLS-85 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
RLS-8500 LTO series (members)	SAS	IBM	Ultrium 5 Half Height	SAS	QUALSTARRLS-85 IBM^^^^^ULTRIUM-HH5	✔	✔		
RLS-8500 LTO series (members)	SAS	IBM	Ultrium 6 Half Height	SAS	QUALSTARRLS-85 IBM^^^^^ULTRIUM-HH6	✔	✔		
RLS-8500 LTO series (members)	SAS	IBM	Ultrium 7 Half Height	SAS	QUALSTARRLS-85 IBM^^^^^ULTRIUM-HH7	✔	✔		
XLS series (members)	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	QUALSTARXLS-8000 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
XLS series (members)	Fibre Channel	IBM	Ultrium 3	Fibre Channel	QUALSTARXLS-8000 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
XLS series (members)	Fibre Channel	IBM	Ultrium 4	Fibre Channel	QUALSTARXLS-8000 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
XLS series (members)	Fibre Channel	IBM	Ultrium 5	Fibre Channel	QUALSTARXLS-8000 IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
XLS series (members)	Fibre Channel	IBM	Ultrium 6	Fibre Channel	QUALSTARXLS-8000 IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
XLS series (members)	Fibre Channel	IBM	Ultrium 7	Fibre Channel	QUALSTARXLS-8000 IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔

Quantum

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Scalar i3	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
Scalar i3	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
Scalar i3	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
Scalar i3 [1]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH9	✔			

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Quantum

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Scalar i3	SAS	IBM	Ultrium 6 Half Height	SAS	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH6	✔	✔		
Scalar i3	SAS	IBM	Ultrium 7 Half Height	SAS	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH7	✔	✔		
Scalar i3	SAS	IBM	Ultrium 8 Half Height	SAS	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH8	✔	✔		
Scalar i3 [1]	SAS	IBM	Ultrium 9 Half Height	SAS	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-HH9	✔	✔		
Scalar i6	Fibre Channel	IBM	Ultrium 6	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
Scalar i6	Fibre Channel	IBM	Ultrium 7	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
Scalar i6	Fibre Channel	IBM	Ultrium 8	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-TD8	✔	✔	✔	✔
Scalar i6 [1]	Fibre Channel	IBM	Ultrium 9	Fibre Channel	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-TD9	✔	✔		✔
Scalar i6 [1]	SAS	IBM	Ultrium 9	SAS	QUANTUM^Scalar^i3-i6 IBM^^^^^ULTRIUM-TD9	✔	✔		
Scalar i500	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	Quantum^Scalar^i500 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
Scalar i500 [2]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	Quantum^Scalar^i500 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
Scalar i500	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	Quantum^Scalar^i500 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
Scalar i500	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
Scalar i500 [3]	Fibre Channel	IBM	Ultrium 4	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
Scalar i500	Fibre Channel	IBM	Ultrium 5	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
Scalar i500	Fibre Channel	IBM	Ultrium 6	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
Scalar i500	Fibre Channel	IBM	Ultrium 7	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
Scalar i500	Fibre Channel	IBM	Ultrium 8	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD8	✔	✔	✔	✔

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Quantum

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Scalar i500 [1]	Fibre Channel	IBM	Ultrium 9	Fibre Channel	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD9	✔	✔		✔
Scalar i500 [3]	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	Quantum^Scalar^i500 HP^^^^^^Ultrium^4-SCSI	✔	✔		
Scalar i500 [2]	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	Quantum^Scalar^i500 HP^^^^^^Ultrium^5-SCSI	✔	✔		
Scalar i500	SAS	Hewlett Packard Enterprise	Ultrium 6650 LTO6	SAS	Quantum^Scalar^i500 HP^^^^^^Ultrium^6-SCSI	✔	✔		
Scalar i500 [2]	SAS	IBM	System Storage TS2350 Ultrium 5	SAS	Quantum^Scalar^i500 IBM^^^^^ULT3580-TD5	✔	✔		
Scalar i500 [3]	SAS	IBM	Ultrium 4	SAS	Quantum^Scalar^i500 IBM^^^^^ULTRIUM-TD4	✔	✔		
Scalar i6000 [4]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	Quantum^Scalar^i6000 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
Scalar i6000 [3] [4]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	Quantum^Scalar^i6000 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
Scalar i6000 [2] [4]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	Quantum^Scalar^i6000 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	Quantum^Scalar^i6000 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	IBM	Ultrium 3	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	IBM	Ultrium 4	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	IBM	Ultrium 5	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	IBM	Ultrium 6	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	IBM	Ultrium 7	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
Scalar i6000 [4]	Fibre Channel	IBM	Ultrium 8	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD8	✔	✔	✔	✔
Scalar i6000 [1] [4]	Fibre Channel	IBM	Ultrium 9	Fibre Channel	Quantum^Scalar^i6000 IBM^^^^^ULTRIUM-TD9	✔	✔		✔
SuperLoader 3	SAS	IBM	Ultrium 4 Half Height	SAS	QUANTUM^UHDL IBM^^^^^ULTRIUM-HH4	✔	✔		

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Quantum

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
SuperLoader 3	SAS	IBM	Ultrium 5 Half Height	SAS	QUANTUM^UHDL IBM^^^^^ULTRIUM-HH5	✔	✔		
SuperLoader 3	SAS	IBM	Ultrium 6 Half Height	SAS	QUANTUM^UHDL IBM^^^^^ULTRIUM-HH6	✔	✔		
SuperLoader 3	SAS	IBM	Ultrium 7 Half Height	SAS	QUANTUM^UHDL IBM^^^^^ULTRIUM-HH7	✔	✔		
SuperLoader 3	SAS	IBM	Ultrium 8 Half Height	SAS	QUANTUM^UHDL IBM^^^^^ULTRIUM-HH8	✔	✔		
SuperLoader 3 [1]	SAS	IBM	Ultrium 9 Half Height	SAS	QUANTUM^UHDL IBM^^^^^ULTRIUM-HH9	✔			
SuperLoader 3	SAS	Quantum	LTO-3 HH	SAS	QUANTUM^UHDL QUANTUM^ULTRIUM^3	✔	✔		
SuperLoader 3	SAS	Quantum	LTO-4 HH	SAS	QUANTUM^UHDL QUANTUM^ULTRIUM^4	✔	✔		
SuperLoader 3	SAS	Quantum	LTO-5 FH	SAS	QUANTUM^UHDL QUANTUM^ULTRIUM^5	✔	✔		
SuperLoader 3	SAS	Quantum	LTO-5 HH	SAS	QUANTUM^UHDL QUANTUM^ULTRIUM^5	✔	✔		
SuperLoader 3	SAS	Quantum	LTO-6 HH	SAS	QUANTUM^UHDL QUANTUM^ULTRIUM^6	✔	✔		
SuperLoader 3	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	QUANTUM^UHDL HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
SuperLoader 3	SCSI	Quantum	LTO-4 HH	SCSI	QUANTUM^UHDL QUANTUM^ULTRIUM^4	✔	✔	✔	

1. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

2. L1 and L2 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L3 (or above) barcode labels for cleaning media.

3. L1 barcode labels on a cleaning media will cause a cleaning utility job to hang indefinitely. Recommend using L2 (or above) barcode labels for cleaning media.

4. i6000 Dual Robot supported with firmware 630Q-GS0xxxx and above.

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Spectra Logic

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
Spectra Stack [1]	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
Spectra Stack [1]	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
Spectra Stack [1]	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
Spectra Stack [1] [2]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
Spectra Stack [1]	SAS	IBM	Ultrium 6 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH6	✔	✔		
Spectra Stack [1]	SAS	IBM	Ultrium 7 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH7	✔	✔		
Spectra Stack [1]	SAS	IBM	Ultrium 8 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH8	✔	✔		
Spectra Stack [1] [2]	SAS	IBM	Ultrium 9 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH9	✔	✔		
T-series (members) [3] [4]	Fibre Channel	IBM	System Storage TS2250 Ultrium 5 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULT3580-HH5	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULT3580-TD5	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 3	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 4	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH6	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 6	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH7	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 7	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 8 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH8	✔	✔	✔	✔
T-series (members) [3] [4]	Fibre Channel	IBM	Ultrium 8	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD8	✔	✔	✔	✔

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Spectra Logic

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
T-series (members) [2] [3] [4] [5]	Fibre Channel	IBM	Ultrium 9 Half Height	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH9	✔	✔	✔	✔
T-series (members) [2] [3] [4] [5]	Fibre Channel	IBM	Ultrium 9	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD9	✔	✔	✔	✔
T-series (members) [3] [4]	SAS	IBM	System Storage TS2250 Ultrium 5 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULT3580-HH5	✔	✔		
T-series (members) [3] [4]	SAS	IBM	Ultrium 6 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH6	✔	✔		
T-series (members) [3] [4]	SAS	IBM	Ultrium 6	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD6	✔	✔		
T-series (members) [3] [4]	SAS	IBM	Ultrium 7 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH7	✔	✔		
T-series (members) [3] [4]	SAS	IBM	Ultrium 8 Half Height	SAS	SPECTRA^PYTHON IBM^^^^^ULTRIUM-HH8	✔	✔		
T-series (members) [3]	SCSI	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	SPECTRA^PYTHON IBM^^^^^ULT3580-TD3	✔	✔	✔	
T-series (members) [3]	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	SPECTRA^PYTHON IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
T-series (members) [3]	SCSI	IBM	Ultrium 4 (U320)	SCSI	SPECTRA^PYTHON IBM^^^^^ULTRIUM-TD4	✔	✔	✔	

1. Library firmware 1.90 is fully supported. Library firmwares 1.93 & 1.95 have broken serialization, they do NOT work, and are NOT supported. 1.97 (or higher) is supported.

2. Failures may occur with 'Initiliaze' jobs (on new tape cartridge) and 'Long Erase' jobs with LTO9 tape cartridge. For more information, see <https://www.veritas.com/content/support/en_US/article.100051049.html>

3. Minimum library firmware of BlueScale10.4.0-20080908F is suggested for proper import/export operation. Library firmware version is determined in the library GUI, not in the inquiry string.

4. Refer to Spectra KB article 1286 for incompatible media library issues. (Spectra login required)

5. Please check compatibility of Spectra Logic T-series member with LTO9 tape. For more information, see <https://www.ibm.com/support/pages/spectra-logic-spectra-library-configuration-information-ibm-spectrum-protect-server-formerly-tsm>

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StorageTek

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
SL500	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	STK^^^^^SL500 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
SL500	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	STK^^^^^SL500 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
SL500	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	STK^^^^^SL500 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
SL500	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	STK^^^^^SL500 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
SL500	Fibre Channel	IBM	Ultrium 3	Fibre Channel	STK^^^^^SL500 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
SL500	Fibre Channel	IBM	Ultrium 4 (U160)	SCSI	STK^^^^^SL500 IBM^^^^^ULTRIUM-TD4	✔	✔		
SL500	Fibre Channel	IBM	Ultrium 4	Fibre Channel	STK^^^^^SL500 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
SL500	Fibre Channel	IBM	Ultrium 5	Fibre Channel	STK^^^^^SL500 IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔
SL500	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	STK^^^^^SL500 HP^^^^^^Ultrium^5-SCSI	✔	✔		
SL500	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	STK^^^^^SL500 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
SL500	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	STK^^^^^SL500 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
SL500	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	STK^^^^^SL500 IBM^^^^^ULT3580-TD3	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	STK^^^^^SL3000 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	STK^^^^^SL3000 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	STK^^^^^SL3000 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULT3580-TD5	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	IBM	Ultrium 4	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	IBM	Ultrium 5	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD5	✔	✔	✔	✔

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StorageTek

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
SL3000 [1]	Fibre Channel	IBM	Ultrium 6	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD6	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	IBM	Ultrium 7	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD7	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	IBM	Ultrium 8	Fibre Channel	STK^^^^^SL3000 IBM^^^^^ULTRIUM-TD8	✔			✔
SL3000 [1] [2]	Fibre Channel	Oracle	StorageTek T10000D	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000D	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	StorageTek	T9840C	Fibre Channel	STK^^^^^SL3000 STK^^^^^T9840C	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	StorageTek	T9840D	Fibre Channel	STK^^^^^SL3000 STK^^^^^T9840D	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	StorageTek	T10000A	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000A	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	StorageTek	T10000B	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000B	✔	✔	✔	✔
SL3000 [1]	Fibre Channel	StorageTek	T10000C	Fibre Channel	STK^^^^^SL3000 STK^^^^^T10000C	✔	✔	✔	✔

1. Minimum library firmware level of 2.30 is required.

2. Minimum tape drive firmware level of 4.09 is required.

Sun

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageTek SL24	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
StorageTek SL24	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
StorageTek SL24	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageTek SL24	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔		
StorageTek SL24	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔		

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Sun

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageTek SL24	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		
StorageTek SL24	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
StorageTek SL24	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
StorageTek SL24	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔		
StorageTek SL24	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
StorageTek SL48	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
StorageTek SL48	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
StorageTek SL48	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageTek SL48	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔		
StorageTek SL48	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔		
StorageTek SL48	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI	✔	✔		
StorageTek SL48	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
StorageTek SL48	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
StorageTek SL48	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔		
StorageTek SL48	SCSI	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	

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Tandberg

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageLibrary T24	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
StorageLibrary T24	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageLibrary T24	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔
StorageLibrary T24	Fibre Channel	IBM	Ultrium 3	Fibre Channel	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
StorageLibrary T24	Fibre Channel	IBM	Ultrium 4	Fibre Channel	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
StorageLibrary T24	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^4-SCSI	✔	✔		
StorageLibrary T24	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^5-SCSI	✔	✔		
StorageLibrary T24	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^6-SCSI	✔	✔		
StorageLibrary T24	SAS	IBM	Ultrium 4 Half Height	SAS	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-HH4	✔	✔		
StorageLibrary T24	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	
StorageLibrary T24	SCSI	IBM	Ultrium 3	SCSI	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-TD3	✔	✔	✔	
StorageLibrary T24	SCSI	IBM	Ultrium 4 (U160)	SCSI	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-TD4	✔	✔	✔	
StorageLibrary T24	SCSI	IBM	Ultrium 4 Half Height (U320)	SCSI	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-HH4	✔	✔	✔	
StorageLibrary T40+/T80+/T120+/T160+ series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	TANDBERGStorageLoader HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	✔
StorageLibrary T40+/T80+/T120+/T160+ series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	TANDBERGStorageLoader HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageLibrary T40+/T80+/T120+/T160+ series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	TANDBERGStorageLoader HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageLibrary T40+/T80+/T120+/T160+ series (members)	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	TANDBERGStorageLoader HP^^^^^^Ultrium^6-SCSI	✔	✔	✔	✔

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Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageLibrary T40+/T80+/T120+/T160+ series (members)	Fibre Channel	IBM	Ultrium 3	Fibre Channel	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD3	✔	✔	✔	✔
StorageLibrary T40+/T80+/T120+/T160+ series (members)	Fibre Channel	IBM	Ultrium 4	Fibre Channel	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD4	✔	✔	✔	✔
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	TANDBERGStorageLoader HP^^^^^^Ultrium^4-SCSI	✔	✔		
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	TANDBERGStorageLoader HP^^^^^^Ultrium^5-SCSI	✔	✔		
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	TANDBERGStorageLoader HP^^^^^^Ultrium^6-SCSI	✔	✔		
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SAS	IBM	Ultrium 4 Half Height	SAS	TANDBERGStorageLoader IBM^^^^^ULTRIUM-HH4	✔	✔		
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	TANDBERGStorageLoader HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SCSI	IBM	Ultrium 3	SCSI	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD3	✔	✔	✔	
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SCSI	IBM	Ultrium 4 (U320)	SCSI	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD4	✔	✔	✔	
StorageLibrary T40+/T80+/T120+/T160+ series (members)	SCSI	IBM	Ultrium 4 Half Height (U320)	SCSI	TANDBERGStorageLoader IBM^^^^^ULTRIUM-HH4	✔	✔	✔	
StorageLoader LTO	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	TANDBERGStorageLoader HP^^^^^^Ultrium^5-SCSI	✔	✔	✔	✔
StorageLoader LTO	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	TANDBERGStorageLoader HP^^^^^^Ultrium^4-SCSI	✔	✔		
StorageLoader LTO	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	TANDBERGStorageLoader HP^^^^^^Ultrium^5-SCSI	✔	✔		
StorageLoader LTO	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	TANDBERGStorageLoader HP^^^^^^Ultrium^6-SCSI	✔	✔		

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Tandberg

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry	WinBES	RMAL	NDMP	ESO
StorageLoader LTO	SAS	IBM	Ultrium 4 Half Height	SAS	TANDBERGStorageLoader IBM^^^^^ULTRIUM-HH4	✔	✔		
StorageLoader LTO	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	TANDBERGStorageLoader HP^^^^^^Ultrium^3-SCSI	✔	✔	✔	✔
StorageLoader LTO	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	TANDBERGStorageLoader HP^^^^^^Ultrium^4-SCSI	✔	✔	✔	

Tape Library Families

When a hardware family of devices is listed, refer to this section for a definition of family members. Generally speaking, the family name and members are defined by the hardware manufacturer, and share common operational traits. In some cases, a specific member of the family may not be supported in the same fashion as the other members. When this occurs, a footnote in the hardware category section will indentify this limitation.

Dell EMC

Backtrack	Family	Interface	Family Members
Backtrack	PowerVault ML6000 Series	Fibre Channel	PowerVault ML6010, PowerVault ML6020, PowerVault ML6030
Backtrack	PowerVault ML6000 Series	SAS	PowerVault ML6010, PowerVault ML6020, PowerVault ML6030
Backtrack	PowerVault ML6000 Series	SCSI	PowerVault ML6010, PowerVault ML6020, PowerVault ML6030
Backtrack	PowerVault TL2000/TL4000 series	Fibre Channel	PowerVault TL2000, PowerVault TL4000
Backtrack	PowerVault TL2000/TL4000 series	SAS	PowerVault TL2000, PowerVault TL4000
Backtrack	PowerVault TL2000/TL4000 series	SCSI	PowerVault TL2000, PowerVault TL4000

Fujitsu

Backtrack	Family	Interface	Family Members
Backtrack	ETERNUS LT20/40/60 S2	Fibre Channel	ETERNUS LT20 S2, ETERNUS LT40 S2, ETERNUS LT60 S2
Backtrack	ETERNUS LT20/40/60 S2	SAS	ETERNUS LT20 S2, ETERNUS LT40 S2, ETERNUS LT60 S2

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Hewlett Packard Enterprise

Backtrack	Family	Interface	Family Members
Backtrack	MSL2024/4048/8048/8096 (G3 series)	Fibre Channel	MSL2024, MSL4048, MSL8048, MSL8096
Backtrack	MSL2024/4048/8048/8096 (G3 series)	SAS	MSL2024, MSL4048, MSL8048, MSL8096
Backtrack	MSL2024/4048/8048/8096 (G3 series)	SCSI	MSL2024, MSL4048, MSL8048, MSL8096

Hitachi Vantara

Backtrack	Family	Interface	Family Members
Backtrack	L-Series	Fibre Channel	L1/30A, L2/30A, L20/300
Backtrack	L-Series	SAS	L1/30A, L2/30A, L20/300

IBM

Backtrack	Family	Interface	Family Members
Backtrack	System Storage TS3100/TS3200 (Machine Type 3573)	Fibre Channel	System Storage TS3100 (Machine Type 3573), System Storage TS3200 (Machine Type 3573)
Backtrack	System Storage TS3100/TS3200 (Machine Type 3573)	SAS	System Storage TS3100 (Machine Type 3573), System Storage TS3200 (Machine Type 3573)
Backtrack	System Storage TS3100/TS3200 (Machine Type 3573)	SCSI	System Storage TS3100 (Machine Type 3573), System Storage TS3200 (Machine Type 3573)

NEC

Backtrack	Family	Interface	Family Members
Backtrack	T30A/T60A	Fibre Channel	T30A, T60A
Backtrack	T30A/T60A	SAS	T30A, T60A

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Overland Storage

Backtrack	Family	Interface	Family Members
Backtrack	NEO E-Series	Fibre Channel	NEO 2000e, NEO 4000e, NEO 8000e
Backtrack	NEO E-Series	SAS	NEO 2000e, NEO 4000e, NEO 8000e
Backtrack	NEO E-Series	SCSI	NEO 2000e, NEO 4000e, NEO 8000e
Backtrack	NEOs series 3rd Generation	Fibre Channel	NEOs StorageLoader, NEOs T24, NEOs T48
Backtrack	NEOs series 3rd Generation	SAS	NEOs StorageLoader, NEOs T24, NEOs T48
Backtrack	NEOxl series	Fibre Channel	NEOxl 40, NEOxl 60, NEOxl 80
Backtrack	NEOxl series	SAS	NEOxl 40, NEOxl 60, NEOxl 80

Qualstar

Backtrack	Family	Interface	Family Members
Backtrack	Q24/Q48	Fibre Channel	Q24, Q48
Backtrack	Q24/Q48	SAS	Q24, Q48
Backtrack	RLS-8500 LTO series	Fibre Channel	RLS-8350, RLS-8560, RLS-85120
Backtrack	RLS-8500 LTO series	SAS	RLS-8350, RLS-8560, RLS-85120
Backtrack	XLS series	Fibre Channel	XLS-8000, XLS-802500, XLS-810160, XLS-810240, XLS-812300, XLS-832700, XLS-8161100

Spectra Logic

Backtrack	Family	Interface	Family Members
Backtrack	T-series	Fibre Channel	Spectra T50, Spectra T50e, Spectra T120, Spectra T200, Spectra T380, Spectra T680, Spectra T950
Backtrack	T-series	SAS	Spectra T50e, Spectra T120
Backtrack	T-series	SCSI	Spectra T50, Spectra T50e, Spectra T120, Spectra T200, Spectra T380, Spectra T680, Spectra T950

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Tandberg

Backtrack	Family	Interface	Family Members
Backtrack	StorageLibrary T40+/T80+/T120+/T160+ series	Fibre Channel	StorageLibrary T40+, StorageLibrary T80+, StorageLibrary T120+, StorageLibrary T160+
Backtrack	StorageLibrary T40+/T80+/T120+/T160+ series	SAS	StorageLibrary T40+, StorageLibrary T80+, StorageLibrary T120+, StorageLibrary T160+
Backtrack	StorageLibrary T40+/T80+/T120+/T160+ series	SCSI	StorageLibrary T40+, StorageLibrary T80+, StorageLibrary T120+, StorageLibrary T160+

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NDMP Platforms

The NDMP platform support information is listed below. This information is organized by vendor manufacturer/model(s), minimum software required, method of connection, and any other important notes or information relevant to the hardware and its compatibility.

The storage devices supported by the NDMP option are included with the Tape Library / Virtual Tape Library sections. In these sections, search by storage device vendor, then model, then look for a check [✔] in the NDMP column for support. Please note that the presence of a check means that **Veritas will support the storage device and NDMP combination IF and ONLY IF the NDMP vendor also supports the library / drive combination.** Please refer to the NDMP vendors' documentation for storage device support and possible limitations. If known, these compatibility lists are listed in the notes section by vendor.

Please Note:

1. The tape library drivers are supplied by Veritas with Backup Exec 21.

2. The tape drive drivers are supplied by the NDMP platform vendor when using Direct-attach or 3-Way NDMP Connection methods.

3. NDMP only supports libraries (real or virtual). Stand-alone tape drives are not supported when using Direct-attach or 3-Way NDMP Connection methods.

4. Validate that firewalls allow NDMP traffic.

5. LTO8 and LTO7 support is fairly new. Please verify the LTO drives supported with your NDMP platform provider.

6. This NDMP hardware section is only required when using the Backup Exec NDMP option. The Backup Exec NDMP option is typically used for backing up file data on the below listed NDMP/NAS servers. If the NDMP/NAS server contains VM images or databases, those items are typically better protected via other Backup Exec Agents or Options.

7. 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.)

NDMP Option minimum requirements:

1. NDMP v4 is required.

2. The NDMP server has the Network Data Management Protocol enabled.

The following table describes the supported NDMP connection methods. Veritas supports these connection methods, provided the NDMP platform vendor does as well.

NDMP Connection Methods

Connection Method	Description
Direct-attach	Data travels from NDMP disk to a tape device on the same NDMP host, or from NDMP disk to a tape device on a SAN. Backup data is NOT sent over the local Ethernet network. The tape device is connected directly to the NAS device via SCSI or Fibre Channel. This is the only NDMP Connection Method that is "LAN free".
Remote	Data travels from the NDMP host, across the local Ethernet network to a Backup Exec server, and then to a tape or disk device connected to the Backup Exec server. Any Backup Exec supported tape or disk device can be used with this Connection Method. A checkmark is NOT needed in the NDMP column of the tape library since the target tape or disk device is not directly connected to the NDMP/NAS. This is the only Connection Method available if the NDMP server doesn't support attaching a local tape library via SCSI or Fibre Channel.
3-way	Data travels from disk on an NDMP host to a tape device on another NDMP host of the same vendor/brand/family. Backup data is sent over the local network. This requires multiple NDMP servers from the same vendor/brand/family. The target tape device must have a checkmark in the NDMP column.

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Dell EMC

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
Compellent FS8600	FluidFS 4.0	Remote	✔	✔	
Compellent FS8600 [1]	FluidFS 5.0	Remote	✔	✔	
Compellent FS8600 [2]	FluidFS 6.0	Remote	✔	✔	
EqualLogic FS7500	FluidFS 4.0	Remote	✔	✔	
EqualLogic FS7600	FluidFS 4.0	Remote	✔	✔	
EqualLogic FS7610	FluidFS 4.0	Remote	✔	✔	
PowerStore series (members) [3]	PowerStore OS 1.0	Remote	✔	✔	
PowerStore series (members) [3]	PowerStore OS 2.0	Remote	✔	✔	
PowerStore series (members) [3]	PowerStore OS 2.1	Remote	✔	✔	
PowerStore series (members)	PowerStore OS 3.0	Remote, 3-way	✔	✔	
PowerStore series (members) [3]	PowerStore OS 3.2	Remote, 3-way	✔	✔	
PowerStore series (members)	PowerStore OS 3.5	Remote, 3-way	✔	✔	
Unity series (members) [4]	Unity Operating Environment 4.1	Remote, 3-way	✔	✔	
Unity series (members) [4]	Unity Operating Environment 4.2	Remote, 3-way	✔	✔	
Unity series (members) [4]	Unity Operating Environment 4.3	Remote, 3-way	✔	✔	
Unity series (members) [4] [5] [6] [7]	Unity Operating Environment 4.4	Direct Attach, Remote, 3-way	✔	✔	✔
Unity series (members) [4] [5] [7]	Unity Operating Environment 4.5	Direct Attach, Remote, 3-way	✔	✔	✔
Unity series (members) [4] [5] [7]	Unity Operating Environment 5.0	Direct Attach, Remote, 3-way	✔	✔	✔
Unity series (members) [4] [5] [7]	Unity Operating Environment 5.1	Direct Attach, Remote, 3-way	✔	✔	✔
Unity series (members) [4] [5] [7]	Unity Operating Environment 5.2	Direct Attach, Remote, 3-way	✔	✔	✔
Unity series (members) [4] [5] [7]	Unity Operating Environment 5.3	Direct Attach, Remote, 3-way	✔	✔	✔
Unity XT series (members) [4] [5] [7]	Unity Operating Environment 5.0	Direct Attach, Remote, 3-way	✔	✔	✔
Unity XT series (members) [4] [5] [7]	Unity Operating Environment 5.1	Direct Attach, Remote, 3-way	✔	✔	✔
Unity XT series (members) [4] [5] [7]	Unity Operating Environment 5.2	Direct Attach, Remote, 3-way	✔	✔	✔
Unity XT series (members) [4] [5] [7]	Unity Operating Environment 5.3	Direct Attach, Remote, 3-way	✔	✔	✔
VNX2 series (members) [4]	VNX File 8.1	Direct Attach, Remote, 3-way	✔	✔	✔
VNX2e series (members) [4] [8] [9]	VNXe Operating Environment v3.1	Remote, 3-way	✔	✔	✔
VNXe series (members) [4] [9]	VNXe Operating Environment v2.0	Remote, 3-way	✔	✔	✔
VNXe series (members) [4] [9]	VNXe Operating Environment v2.4	Remote, 3-way	✔	✔	✔
VNX series (members) [4]	VNX File 7.0	Direct Attach, Remote, 3-way	✔	✔	✔
VNX series (members) [4]	VNX File 7.1	Direct Attach, Remote, 3-way	✔	✔	✔

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1. Dell EMC versioning clarification: Dell EMC marketing refers to it as v5, but it shows up in the adamm.log as "Operating System Version 1.5.0.xxxx". This is consistent with their earlier versioning style, v4 = 1.4, v3 = 1.3, v2 = 1.2, etc.

2. Dell EMC versioning clarification: Dell EMC marketing refers to it as v6, but it shows up in the adamm.log as "Operating System Version 1.6.0.xxxx". This is consistent with their earlier versioning style, v4 = 1.4, v3 = 1.3, v2 = 1.2, etc.

3. Required support can be found in "BE 21.1". Use the latest Update available via Veritas Update. The Readme for "BE 21.1" is at <https://www.veritas.com/content/support/en_US/doc/59226813-141939443-0/index>

4. EMC's HCL can be found here: <https://elabnavigator.emc.com> Select "Customers and Partners" and then select PDFs and Guides and open Celerra .pdf

5. Direct-attach support has a maximum tape block size of 64kB by default. Consult Unity documentation to enable proper functionality for larger block sizes.

6. Direct-attach support requires Unity Operating Environment version 4.4.1.1538211294 or later.

7. Direct-attach support requires that SCSI reservations be enabled manually (the scsiReserve setting). Please see Unity documentation.

8. EMC VNXe firmware 3.1.5.6801782 (or higher) is required.

9. VNXe supports "3-way" with the restriction that VNXe can't support the NDMP Tape Server part of a 3-way operation. 3-way requires a VNX or Celerra data mover as the NDMP Tape Server. ESO is supported when used with a 3-way connection.

Dell EMC Isilon

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
PowerScale series [1] [2]	OneFS 9.1	Direct Attach, Remote, 3-way	✔	✔	✔
PowerScale series [1] [2]	OneFS 9.2	Direct Attach, Remote, 3-way	✔	✔	✔
PowerScale series [1] [2]	OneFS 9.3	Direct Attach, Remote, 3-way	✔	✔	✔
PowerScale series [1] [2]	OneFS 9.4	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS (members) [3]	OneFS 7.1	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS (members) [4]	OneFS 7.2	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS (members) [5] [6]	OneFS 8.0	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS (members) [7] [8]	OneFS 8.1	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS (members)	OneFS 8.2	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS (members) [2] [9]	OneFS 9.0	Direct Attach, Remote, 3-way	✔	✔	✔

1. Required support can be found in "BE 21.2". Use the latest Update available via Veritas Update. The Readme for "BE 21.2" is at <https://www.veritas.com/content/support/en_US/doc/59226813-142155634-0/index>

2. The Isilon Scale-Out NAS line is now known as the PowerScale line.

3. OneFS versions 7.1.x are supported.

4. OneFS versions 7.2.x are supported.

5. OneFS version 8.0.0.5 (or higher 8.0.0.x) is supported.

6. OneFS version 8.0.1.2 (or higher 8.0.1.x) is supported.

7. OneFS version 8.1.0.1 (or higher) is supported.

8. OneFS version 8.1.0.2 backups fail when using 3-way backups and tagged VLAN. Please consult Isilon about issue 207873 or upgrade.

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9. Required support can be found in "BE 21.1". Use the latest Update available via Veritas Update. The Readme for "BE 21.1" is at <https://www.veritas.com/content/support/en_US/doc/59226813-141939443-0/index>

Hitachi Vantara

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
NAS Platform, 4000 and 3000 Series (members) [1]	Hitachi NAS OS 12	Direct Attach, Remote, 3-way	✔	✔	✔
NAS Platform, 4000 and 3000 Series (members) [2]	Hitachi NAS OS 13	Direct Attach, Remote, 3-way	✔	✔	✔
NAS Platform F1000 (HNAS F1000) (members) [3] [4]	FOS 4.1	Remote	✔	✔	
NAS Platform F1000 (HNAS F1000) (members) [4]	FOS 5.0	Remote	✔	✔	
Virtual File Platform (VFP) (members) [3] [4]	FOS 4.1	Remote	✔	✔	
Virtual File Platform (VFP) (members) [4]	FOS 5.0	Remote	✔	✔	
VSP Gx00/Fx00 series (members) [2]	Hitachi NAS OS 13	Direct Attach, Remote, 3-way	✔	✔	✔

1. Hitachi NAS OS versions 12.x are supported.

2. Hitachi NAS OS versions 13.x are supported.

3. FOS 4.1.1-00 or later version is required.

4. The restore from the incremental backup set fails if the backup set has no backup data.

IBM

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
Scale Out Network Attached Storage (SONAS) [1] [2]	IBM OS 1.4	Remote	✔	✔	
Scale Out Network Attached Storage (SONAS) [1] [2]	IBM OS 1.5	Remote	✔	✔	
Storwize series (members) [1] [2]	IBM OS 1.4	Remote	✔	✔	
Storwize series (members) [1] [2]	IBM OS 1.5	Remote	✔	✔	
Storwize series (members) [1] [2]	IBM OS 1.6	Remote	✔	✔	

1. The IBM document "Implementing an effective NDMP backup solution on IBM Storwize V7000 Unified system using Symantec Backup Exec 2014" is a good overview. <https://www-356.ibm.com/partnerworld/wps/servlet/download/DownloadServlet?id=_7E>$S5TzsZziPCA$cnt&attachmentName=Implementing_ndmp_backup_solution_on_ibm_storwize_v70

2. Within the Backup Exec options for a backup job, the NDMP setting "BACKUP_GROUPEXPIRATION" may need to be set to "0_SEC" for level backups to work correctly. Consult the IBM documents for more details.

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Imation

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
Nexsan NST5000	NestOS 2.2	Remote	✔	✔	

LSI Logic

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
Cougar 3000/6000 Series NAS Gateway	EverON 4.0.4.6	Direct Attach, Remote, 3-way	✔	✔	✔

NetApp

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
FAS Series (members) [1]	Data ONTAP v8.0 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.1 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.1 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.2 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.2 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.3 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.3 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.4 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1]	Data ONTAP v8.1.4 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2]	Data ONTAP v8.2 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3]	Data ONTAP v8.2 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2]	Data ONTAP v8.2.1 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3]	Data ONTAP v8.2.1 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2]	Data ONTAP v8.2.2 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3]	Data ONTAP v8.2.2 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2]	Data ONTAP v8.2.3 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3]	Data ONTAP v8.2.3 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔

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NetApp

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
FAS Series (members) [1] [2] [4]	Data ONTAP v8.2.4 (7-mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [4]	Data ONTAP v8.2.4 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [5] [6]	Data ONTAP v8.3 (Clustered)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [5] [6] [7]	Data ONTAP v8.3.2 (Clustered)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8]	ONTAP v9.0	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8]	ONTAP v9.1	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8]	ONTAP v9.2	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8]	ONTAP v9.3	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8]	ONTAP v9.4	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8]	ONTAP v9.5	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8] [9]	ONTAP v9.6	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8] [9]	ONTAP v9.7	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8] [9]	ONTAP v9.8	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series (members) [1] [2] [3] [6] [8] [9]	ONTAP v9.10	Direct Attach, Remote, 3-way	✔	✔	✔
GX series [1]	Data ONTAP v8.0 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
ONTAP Select [1] [10] [2] [3] [6] [8] [9]	ONTAP v9.9	Remote, 3-way	✔	✔	✔
ONTAP Select [1] [10] [2] [3] [6] [8] [9]	ONTAP v9.10	Remote, 3-way	✔	✔	✔

1. NetApp's HCL can be found here: <http://www.netapp.com/us/solutions/a-z/data-protection-devices.html>

2. Browsing of volumes (Backup Selections) is not supported by NetApp. Please use the Include/Exclude feature to configure the backup selections. Please see <https://www.veritas.com/content/support/en_US/article.100013508>

3. NetApp clustered data ONTAP (CDOT) features such as service name virtualization and multi-tenancy (VSERVER) capabilities are not supported. Node-scoped NDMP mode is required to be enabled. More information is available at <https://library.netapp.com/ecmdocs/ECMP1368707/html/GUID-21B82CCB-97F1-4FA6-BB22-095E97979110.html>

4. 8.2.4 requires NetApp P-release version 8.2.4p3 (or higher patch)

5. 8.3.1 is not supported. This is due to changes made by NetApp that causes Verify to fail during Incremental Backups.

6. NetApp Data ONTAP replication feature SnapMirror is not supported.

7. 8.3.2 requires NetApp P-release version 8.3.2p1 (or higher patch)

8. Node-scope continues to work till 9.10 with Backup Exec.

9. NetApp ONTAP feature FlexGroup is not supported.

10. ONTAP Select is a virtual server and ONTAP tested on Select supports FAS/AFF series. For more info, please refer: <https://docs.netapp.com/us-en/ontap-select/concept_ots_overview.html#software-defined-storage>

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Oracle

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
ZFS Storage Appliance series (members) [1]	Oracle OS 2010.08.17	Direct Attach, Remote, 3-way	✔	✔	✔
ZFS Storage Appliance series (members) [1]	Oracle OS 2013.06.05	Direct Attach, Remote, 3-way	✔	✔	✔

1. Support for clustering of the Oracle Sun NDMP devices was not specifically tested, though may work. Contact Oracle for usage of this environment.

Veritas

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
FileStore	FileStore 5.6	Remote	✔	✔	
FileStore	FileStore 5.7	Remote	✔	✔	

NDMP Families

Dell EMC

Backtrack	Family	Family Members
Backtrack	PowerStore series	PowerStore 500T, PowerStore 1000T, PowerStore 1000X, PowerStore 1200T, PowerStore 3000T, PowerStore 3000X, PowerStore 3200T, PowerStore 5000T, PowerStore 5000X, PowerStore 5200T, PowerStore 7000T, PowerStore 7000X, PowerStore 9000T, PowerStore 9000X, PowerStore 9200T
Backtrack	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, Unity VSA
Backtrack	Unity XT series	Unity XT 380, Unity XT 380F, Unity XT 480, Unity XT 480F, Unity XT 680, Unity XT 680F, Unity XT 880, Unity XT 880F
Backtrack	VNX2 series	VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000
Backtrack	VNX2e series	VNXe1600, VNXe3200
Backtrack	VNXe series	VNXe3100, VNXe3150, VNXe3300
Backtrack	VNX series	VNX 5100, VNX 5300, VNX 5500, VNX 5700, VNX 7500

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Dell EMC Isilon

Backtrack	Family	Family Members
Backtrack	Scale-Out NAS	IQ Storage, IQ Storage HD-Series, IQ Storage NL-Series, IQ Storage S-Series, IQ Storage X-Series

Hitachi Vantara

Backtrack	Family	Family Members
Backtrack	NAS Platform, 4000 and 3000 Series	HNAS 3080 (M1), HNAS 3090 (M2), HNAS 4040, HNAS 4060, HNAS 4080, HNAS 4100
Backtrack	NAS Platform F1000 (HNAS F1000)	HNAS F1120, HNAS F1140
Backtrack	Virtual File Platform (VFP)	VFP 50, VFP 70, VFP 80, VFP 100N, VFP 110, VFP 200N, VFP 300N, VFP 500N, VFP 600N, VFP 2010, VFP 2100, VFP 2300
Backtrack	VSP Gx00/Fx00 series	VSP F350, VSP F370, VSP F400, VSP F600, VSP F700, VSP F800, VSP F900, VSP G130, VSP G150, VSP G200, VSP G350, VSP G370, VSP G400, VSP G600, VSP G700, VSP G800, VSP G900

IBM

Backtrack	Family	Family Members
Backtrack	Storwize series	FlashSystem V9000, SANVC(2145), Storwize V3500, Storwize V3700, Storwize V5000, Storwize V5010, Storwize V5020, Storwize V5030, Storwize V7000, Storwize V7000 Unified

NetApp

Backtrack	Family	Family Members
Backtrack	FAS Series	All 'FAS' Models.

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Oracle

Backtrack	Family	Family Members
Backtrack	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

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NAS Sources

NAS Source support information is listed below. This information is organized by vendor manufacturer/model(s), minimum software required, and any other important notes or information relevant to the hardware and its compatibility.

NAS devices listed in this sections have been tested with Backup Exec as a result of formal joint business agreements and OEM relationships.

Hardware is selected and prioritized for certification based on market research and input from the field, including customer feedback. If a customer would like to have their hardware considered for inclusion on this HCL, simply submit the request via an email <Backup_Exec_HCL@veritas.com> . Requests will be reviewed by the appropriate Veritas Product Management team members for possible certification, with final decisions based on the overall fit with the product, target market, and frequency of request.

Overland Storage

Family	Family Members	Software Tested	Tape Support	Notes
SnapServer DX	SnapServer DX1, SnapServer DX2, XSR 120, XSR 40, XSD 40	GOS 7.2.126	SAS	Client Side Dedup is not supported. Snapshots are not supported on the file system. Overland Storage support link for agent installation instructions. <http://support.overlandstorage.com/jive/servlet/KbServlet/download/10414-102-3212/10400441-001.pdf>

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SAN Infrastructure Components

The SAN infrastructure components section of the HCL is split into three sections - traditional fibre channel infrastructure components, FCoE infrastructure, and iSCSI "solutions". The fibre channel and FCoE sections list possible components to be used interchangeably, whereas the iSCSI section lists SAN components to be used as a solution; a complete set of hardware from hardware or software initiator, through interconnect (if any), to storage device.

Fibre channel SANs: To verify support for tape libraries, or virtual tape libraries (VTL), refer to the column labelled "ESO" in the respective "Tape Libraries with Drives" or "Virtual Tape Libraries with Drives" sections.

Libraries or drives with an interface column of "SCSI" require an interface card or bridge to establish a connection to an FC switch. Please see the content below for supported devices.

Fibre Channel Infrastructure

This list of supported fibre-channel storage area network (SAN) components represents what has been tested in Veritas labs, or in Veritas-supervised partner labs.

The Backup Exec FC and FCoE Shared Storage Option (SSO) hardware support model for Storage Area Network (SAN) components is now an open model (this is a new policy for Backup Exec 21). 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. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components.

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

To verify support for tape libraries, or virtual tape libraries (VTL), refer to the column labelled "ESO" in the respective "Tape Libraries with Drives" or "Virtual Tape Libraries with Drives" sections.

HBAs

Note: The OS and Version information indicate the tested platform. Unless specifically noted all other OS Versions are supported.

Veritas recommends (where possible), the following to avoid complications in the SAN environment:

1. Avoid mixing HBAs from different vendors.

2. All HBAs should use the same firmware, BIOS and driver revision.

3. Consult the hardware vendor's web site for up-to-date firmware and driver updates.

4. Where support is shown for Windows Server 2008, Windows Server 2012, or Windows Server 2016, please reference the Software Compatibility List (<http://www.backupexec.com/compatibility>) for supported operating system versions.

Broadcom Emulex

Device	Bus Type	Windows	(Asianux Consortium) Asianux	(Red Hat) Enterprise Linux	(SUSE) SUSE Linux Enterprise Server
LP1100x / 1150 series (Helios ASIC) (members)	PCI-X	Windows Server 2008	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
LPe11xxx / 115x series (Zephyr ASIC) (members)	PCIe	Windows Server 2008	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10, 11

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Broadcom Emulex

Device	Bus Type	Windows	(Asianux Consortium) Asianux	(Red Hat) Enterprise Linux	(SUSE) SUSE Linux Enterprise Server
LPe12xxx / 125x series (Saturn ASIC) (members)	PCIe	Windows Server 2008, Windows Server 2012	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
LPe16xxx / 15xxx series (Lancer ASIC) (members)	PCIe	Windows Server 2008, Windows Server 2012, Windows Server 2016			

Brocade

Device	Bus Type	Windows
425	PCIe	Windows Server 2008, Windows Server 2012
815	PCIe	Windows Server 2008
1860 (FC)	PCIe	Windows Server 2008

Hewlett Packard Enterprise

Device	Bus Type	Windows	(Asianux Consortium) Asianux	(Red Hat) Enterprise Linux	(SUSE) SUSE Linux Enterprise Server
81B	PCIe	Windows Server 2008			
81E	PCIe	Windows Server 2008	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
81Q	PCIe	Windows Server 2008			
82B	PCIe	Windows Server 2008			
82E	PCIe	Windows Server 2008			
82Q	PCIe	Windows Server 2008			
A7388A	PCI-X	Windows Server 2008	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
AJ763A	PCIe	Windows Server 2016			
AJ764A	PCIe	Windows Server 2008		4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10

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Hewlett Packard Enterprise

Device	Bus Type	Windows	(Asianux Consortium) Asianux	(Red Hat) Enterprise Linux	(SUSE) SUSE Linux Enterprise Server
FC1142SR	PCIe	Windows Server 2008		4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
FC1143	PCI-X	Windows Server 2008		4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
FC2142SR	PCIe	Windows Server 2008	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
FC2143	PCIe	Windows Server 2008	2.0	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
QMH2462-HP-BK	PCIe	Windows Server 2008			
SN1000E	PCIe	Windows Server 2012			
SN1000Q / SN1100Q series (members)	PCIe	Windows Server 2012			

Hitachi Vantara

Device	Bus Type	Windows
HFCE080x series (members)	PCIe, mezzanine	Windows Server 2008

LSI Logic

Device	Bus Type	Windows
LSI7202XP-LC	PCI-X	Windows Server 2008

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Marvell QLogic

Device	Bus Type	Windows	(Red Hat) Enterprise Linux	(SUSE) SUSE Linux Enterprise Server
QLE236x series (members)	PCIe	Windows Server 2008, Windows Server 2012	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
QLE2400 series (members)	PCIe	Windows Server 2008, Windows Server 2012	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
QLE2500 series (members)	PCIe	Windows Server 2008, Windows Server 2012	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
QLE2600 series (members)	PCIe	Windows Server 2008, Windows Server 2012, Windows Server 2016, Windows Server 2019		
QLE2670 series (members)	PCIe	Windows Server 2008, Windows Server 2012		
QLE2690 series (members)	PCIe	Windows Server 2012		
QLE2700 series (members)	PCIe	Windows Server 2012, Windows Server 2016		
QLE8300 series (FC) (members)	PCIe	Windows Server 2012		
QLE10000 series (members)	PCIe	Windows Server 2008		
SANblade 23xx series (members)	PCI, PCI-X	Windows Server 2008, Windows Server 2012	4.0 (ES), 5.0 (Advanced), 5.0 (base)	9, 10
SANblade 24xx series (members)	PCI-X	Windows Server 2008, Windows Server 2012, Windows Server 2019	5.0 (base)	

Sun

Device	Bus Type	Windows
SG-XPCIE2FC-QF4	PCIe	Windows Server 2008

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Broadcom Emulex

Backtrack	Family	Family Members
Backtrack	LP1100x / 1150 series (Helios ASIC)	LP1150, LP11000, LP11000-M4, LP11002, LP11002-M4, LP12002-S
Backtrack	LPe11xxx / 115x series (Zephyr ASIC)	LPe111, LPe1105-M, LPe1150, LPe11000, LPe11002, LPe11002-E, LPe11002-S, LPe11004, LPem11002-S
Backtrack	LPe12xxx / 125x series (Saturn ASIC)	LPe1205-HP, LPe1250, LPe12000, LPe12000-E, LPe12002, LPe12002-E, LPe12002-M8, LPe12002-X8, LPe12004
Backtrack	LPe16xxx / 15xxx series (Lancer ASIC)	LPe15004, LPe16000-M6, LPe16000B, LPe16000B-M6, LPe16000B-M8, LPe16002-M6, LPe16002B, LPe16002B-M6, LPe16002B-M8, LPe16004, LPe16202 (FC)

Hewlett Packard Enterprise

Backtrack	Family	Family Members
Backtrack	SN1000Q / SN1100Q series	SN1000Q, SN1100Q

Hitachi Vantara

Backtrack	Family	Family Members
Backtrack	HFCE080x series	HFCE0801, HFCE0802, HFCE0802-M, HFCE0804-M

Marvell QLogic

Backtrack	Family	Family Members
Backtrack	QLE236x series	QLE2360, QLE2362
Backtrack	QLE2400 series	QLE2440, QLE2460, QLE2462, QLE2464, QME2462, QMI2572
Backtrack	QLE2500 series	QLE2560, QLE2562, QLE2562-S, QLE2564, QME2572, QMH2562, QMH2572, QMI2582, QMI3572
Backtrack	QLE2600 series	QLE2660, QLE2662
Backtrack	QLE2670 series	QLE2670, QLE2672
Backtrack	QLE2690 series	QLE2690, QLE2692, QLE2694, QLE2694L, QLE2694U

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Marvell QLogic

Backtrack	Family	Family Members
Backtrack	QLE2700 series	QLE2740, QLE2742, QLE2764
Backtrack	QLE8300 series (FC)	QLE8360 (FC), QLE8362 (FC)
Backtrack	QLE10000 series	QLE10502, QLE10522, QLE10542
Backtrack	SANblade 23xx series	QCP2332, QCP2340, QLA2300, QLA2302, QLA2310, QLA2332, QLA2340, QLA2340C, QLA2342, QLA2344, QSB2340, QSB2342
Backtrack	SANblade 24xx series	QLA2440, QLA2460, QLA2462

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Bridges and Routers

Consult the hardware vendor's web site for up-to-date firmware updates.

ADIC

Device
SNC 4000 (embedded)

ATTO

Device
FibreBridge 3300

Crossroads

Device
6000 [1]
6240 Storage Router [1]

1. If hardware encryption is used, then a minimum firmware of 5.8.24 is required.

Dell EMC

Device
PV-132T (FCR embedded)

Hewlett Packard Enterprise

Device
e1200-320 4Gb
e2400-160 FC Interface Controller
e2400-FC 2Gb Interface Controller
e2400-FC 4Gb Interface Controller

Qualstar

Device
FS1310B embedded router
VFS113 embedded router
VFS212 embedded router

Quantum

Device
FC1202
FC470

Spectra Logic

Device
F-QIP

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StorageTek

Device
Direct FC Attach (L180/L700)
L1400 Interface Control Module

Switches

1. Avoid mixing switches/hubs from different vendors, unless specifically supported by the switch/hub vendors.

2. Consult the hardware vendor's web site for up-to-date firmware updates.

Brocade

Device
300
5100
6510
G620
SilkWorm 12000
SilkWorm 200E
SilkWorm 2010
SilkWorm 2050
SilkWorm 220E
SilkWorm 240E
SilkWorm 300
SilkWorm 3200
SilkWorm 3250
SilkWorm 3800
SilkWorm 3850
SilkWorm 3900
SilkWorm 4100
SilkWorm 5100
SilkWorm 6505

Cisco Systems

Device
MDS9216

Hewlett Packard Enterprise

Device
4Gb Virtual Connect Fibre Channel Module for c- Class Bla
SAN Switch 4/16
SAN Switch 4/32
SAN Switch 4/64
SAN Switch 4/8
SAN Switch 8/24
SAN Switch 8/40
SAN Switch 8/8
SAN Switch 8/80
SAN Switch SN6000B 16GB 48/48
SAN Switch SN6600B 32Gb 48/48

IBM

Device
2109 F32

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Marvell QLogic

Device
SANbox 3602
SANbox 3810
SANbox 5600
SANbox 5602
SANbox 5800
SANbox 5802
SANbox 9000
SANbox 9008V

McDATA

Device
ED-5000
ES-3016
Sphereon 4500

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FCoE Infrastructure

This list of supported Fibre Channel over Ethernet (FCoE) storage area network (SAN) components represents what has been tested in Veritas labs, or in Veritas-supervised partner labs.

The Backup Exec FC and FCoE Shared Storage Option (SSO) hardware support model for Storage Area Network (SAN) components is now an open model (this is a new policy for Backup Exec 21). 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. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components.

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

To verify support for tape libraries, or virtual tape libraries (VTL), refer to the column labelled "ESO" in the respective "Tape Libraries with Drives" or "Virtual Tape Libraries with Drives" sections.

CNAs

Please Note:

1. All like CNAs within a SAN should use the same firmware, BIOS and driver revision as recommended by CNA vendors.

2. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).

3. Running a server's Ethernet and Fibre Channel over Ethernet (FCoE) traffic on the same CNA port is not supported.

4. Where support is shown for Windows Server 2008, Windows Server 2012,or Windows Server 2016 please reference the Software Compatibility List (<http://www.backupexec.com/compatibility>) for supported operating system versions.

Broadcom Emulex

Device	Bus Type	Windows
OneConnect OCe11000 series (FCoE BE3 ASIC) (members)	PCIe	Windows Server 2008, Windows Server 2012
OneConnect OCe14000 series (FCoE Skyhawk ASIC) (members)	PCIe	Windows Server 2008, Windows Server 2012
OneConnect OCe14401 Series (FCoE Skyhawk ASIC) (members)	PCIe	Windows Server 2012

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Brocade

Device	Bus Type	Windows
1860 (FCoE)	PCIe	Windows Server 2008

Hewlett Packard Enterprise

Device	Bus Type	Windows	(Red Hat) Enterprise Linux
554FLR	PCIe	Windows Server 2016	
CN1000Q	PCIe	Windows Server 2008	5.0 (base)
CN1100E	PCIe	Windows Server 2008	5.0 (base)
HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	PCIe 2.0	Windows Server 2012	
NC553i	PCIe	Windows Server 2008	5.0 (base)

Marvell QLogic

Device	Bus Type	Windows
QLE8200 series (FCoE) (members)	PCIe	Windows Server 2008
QLE8300 series (FCoE) (members)	PCIe	Windows Server 2008, Windows Server 2012
QLE8400 series (FCoE) (members)	PCIe	Windows Server 2008, Windows Server 2012

CNA Families

Broadcom Emulex

Backtrack	Family	Family Members
Backtrack	OneConnect OCe11000 series (FCoE BE3 ASIC)	OCe11102 (FCoE)
Backtrack	OneConnect OCe14000 series (FCoE Skyhawk ASIC)	OCe14102 (FCoE), OCm14102-OCP (FCoE)
Backtrack	OneConnect OCe14401 Series (FCoE Skyhawk ASIC)	OCe14401 (FCoE), OCe14401B (FCoE)

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Marvell QLogic

Backtrack	Family	Family Members
Backtrack	QLE8200 series (FCoE)	QLE8240 (FCoE), QLE8242 (FCoE)
Backtrack	QLE8300 series (FCoE)	QLE8360 (FCoE), QLE8362 (FCoE)
Backtrack	QLE8400 series (FCoE)	QLE8440 (FCoE), QLE8442 (FCoE)

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Bridges and Routers

Cisco Systems

Device
N5K-1008

Switches

Cisco Systems

Device
Nexus 5010

Hewlett Packard Enterprise

Device
2408 FCoE CN Switch

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iSCSI Solutions

This list of tested iSCSI components represents what has been tested in Veritas labs, or in Veritas-supervised partner labs. The listed components in each row should be used together to ensure compatibility. This section is a mix of physical and virtual TAPE libraries. iSCSI disk solutions are listed in the appropriate Disk sections of this HCL.

Please Note:

1. Each column within the configuration tables represents the key components that were tested in an iSCSI SAN with the Backup Exec Enterprise Server Option (ESO).

2. To ensure compatibility, Veritas, the device manufacturers, and the operating system vendor must support the combination of iSCSI devices.

3. Configurations that use the Microsoft iSCSI initiator aren't supported with the Simplified Disaster Recovery (SDR) option.

4. The firmware and driver versions listed are minimum recommended levels. For device support and firmware/driver updates, please contact your hardware vendor.

5. Where possible, avoid mixing of vendor HBAs. All like HBAs within your SAN should use the same firmware, BIOS and driver revision.

6. In some cases, tape libraries with mixed media drive types were tested. Either drive type may be used.

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

Amazon

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Amazon AWS Storage Gateway VTL ~ 16-Dec-2014 ~ AWS^^^^^Gateway-VTL [1]	IBM TotalStorage 3580 Ultrium 5 ~ N/A ~ IBM^^^^^ULT3580-TD5	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Amazon AWS iSCSI device ~ N/A
Amazon AWS Storage Gateway VTL ~ 16-Dec-2014 ~ AWS^^^^^Gateway-VTL [1]	IBM TotalStorage 3580 Ultrium 5 ~ N/A ~ IBM^^^^^ULT3580-TD5	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.2.9200.16813 - N/A	Amazon AWS iSCSI device ~ N/A
Amazon AWS Storage Gateway VTL ~ 16-Dec-2014 ~ AWS^^^^^Gateway-VTL [1]	IBM TotalStorage 3580 Ultrium 5 ~ N/A ~ IBM^^^^^ULT3580-TD5	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.3.9600.16384 - N/A	Amazon AWS iSCSI device ~ N/A

1. This device includes Cloud features. Please see the Amazon Cloud Storage section for specifics.

BDT

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
BDT RDStor ~ R1.03 ~ BDT^^^^^RDStor_T [1]	Hewlett Packard Enterprise Ultrium 1840 LTO4 ~ N/A ~ HP^^^^^^Ultrium^4-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.0.6001.18000 - N/A	BDT Direct iSCSI Device ~ N/A

1. To Import, insert the RDX media into the slot(s) and select Scan from Backup Exec. Due to the physical differences between the RDstor and a tape library, regular import jobs will result in error messages in the import job log.

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Dell EMC

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Dell EMC PowerVault TL2000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM System Storage TS2230 Ultrium 3 Half Height ~ 73P9 ~ IBM^^^^^ULT3580-HH3	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL2000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM System Storage TS2250 Ultrium 5 Half Height ~ N/A ~ IBM^^^^^ULT3580-HH5	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL2000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM System Storage TS2340 Ultrium 4 ~ 74H6 ~ IBM^^^^^ULT3580-TD4	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL2000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM Ultrium 4 Half Height ~ 89B1 ~ IBM^^^^^ULTRIUM-HH4	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL4000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM System Storage TS2230 Ultrium 3 Half Height ~ 73P9 ~ IBM^^^^^ULT3580-HH3	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL4000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM System Storage TS2250 Ultrium 5 Half Height ~ N/A ~ IBM^^^^^ULT3580-HH5	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL4000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM System Storage TS2340 Ultrium 4 ~ 74H6 ~ IBM^^^^^ULT3580-TD4	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL4000 ~ 6.60 ~ IBM^^^^^3573-TL	IBM Ultrium 4 Half Height ~ 89B1 ~ IBM^^^^^ULTRIUM-HH4	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - 1.5	Dell EMC TL24iSCSIxSAS ~ v1.00.02
Dell EMC PowerVault TL4000 ~ A.50 ~ IBM^^^^^3573-TL	IBM System Storage TS2240 Ultrium 4 Half Height ~ B171 ~ IBM^^^^^ULT3580-HH4	Microsoft iSCSI Software Initiator ~ N/A 6.1.7600.16385 - N/A	Dell EMC TL24iSCSIxSAS ~ v1.00.05
Dell EMC PowerVault TL4000 ~ A.50 ~ IBM^^^^^3573-TL	IBM System Storage TS2250 Ultrium 5 Half Height ~ B171 ~ IBM^^^^^ULT3580-HH5	Microsoft iSCSI Software Initiator ~ N/A 6.1.7600.16385 - N/A	Dell EMC TL24iSCSIxSAS ~ v1.00.05

H3C

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
H3C CP3310 ~ N/A ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
H3C CP3352 ~ N/A ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
H3C CP3354 ~ N/A ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
H3C CP5510 ~ N/A ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
H3C CP5550 ~ N/A ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A

1. Each VTL may only be assigned to a single server (no sharing), but the physical library may be connected to multiple servers.
2. This VTL also supports HPE LTO2, LTO3, LTO4, and LTO5 tape drive emulation. These combinations are also supported.

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Hewlett Packard Enterprise

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Hewlett Packard Enterprise D2D100 Series Backup System ~ kn6C-001.231 ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 460 LTO2 ~ N/A ~ HP^^^^^^Ultrium^2-SCSI	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.1748 - 2.03	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise D2D100 Series Backup System ~ kn77 ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 460 LTO2 ~ N/A ~ HP^^^^^^Ultrium^2-SCSI	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.1748 - 2.03	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise D2D100 Series Backup System ~ kn7b ~ HP^^^^^^D2DBS [1] [2]	Hewlett Packard Enterprise Ultrium 460 LTO2 ~ N/A ~ HP^^^^^^Ultrium^2-SCSI	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.1748 - 2.03	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise D2D2500 Series Backup System ~ pf86 ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 1840 LTO4 ~ N/A ~ HP^^^^^^Ultrium^4-SCSI	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise D2D4000 Series Backup System ~ pf86 ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 1840 LTO4 ~ N/A ~ HP^^^^^^Ultrium^4-SCSI	Microsoft iSCSI Software Initiator ~ iscsiprt.sys 5.2.3790.3640 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce 2700 ~ N/A ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce 2900 ~ N/A ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce 3000 ~ N/A ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce 3500 ~ N/A ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce 4000 ~ N/A ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce 5000 ~ N/A ~ HP^^^^^^D2DBS [1] [3]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ N/A ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise StoreOnce VSA ~ EL01 ~ HP^^^^^^D2DBS [4] [5] [6] [7]	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ ED51 ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.3.9600.17328 - N/A	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise VLS 1000i ~ 2.6.0.226 ~ HP^^^^^^VLS1000i [1] [8]	Hewlett Packard Enterprise Ultrium 460 LTO2 ~ N/A ~ HP^^^^^^Ultrium^2-SCSI	Marvell QLogic QLA4052C ~ N/A 2.1.2.0 - 2.0.0.7	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A
Hewlett Packard Enterprise VLS 1000i ~ 2.6.0.228 ~ HP^^^^^^VLS1000i [1] [8]	Hewlett Packard Enterprise Ultrium 460 LTO2 ~ N/A ~ HP^^^^^^Ultrium^2-SCSI	Marvell QLogic QLA4052C ~ ql40xx.sys 2.1.3.26 - 2.0.0.7	Hewlett Packard Enterprise Direct iSCSI Device ~ N/A

1. Each VTL may only be assigned to a single server (no sharing), but the physical library may be connected to multiple servers.
2. Minimum VTL software version kn7b is required to support automated robotic import/export functionality.
3. This VTL also supports HPE LTO2, LTO3, LTO4, and LTO5 tape drive emulation. These combinations are also supported.
4. Each VTL may only be assigned to a single server (no sharing).
5. For device details and platform support refer to: <http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04328820>
6. StoreOnce VSA is a virtual appliance supported on VMware 5.x
7. StoreOnce VSA is a virtual appliance supported on Windows Server 2012 Hyper-V R2

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8. Both the "VLS1000i" and "VLS1002i" models are supported. The difference is in the capacity.

Overland Storage

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Overland Storage REO 4600 ~ N/A ~ OVERLANDREO^Series	Hewlett Packard Enterprise Ultrium 460 LTO2 ~ N/A ~ HP^^^^^^Ultrium^2-SCSI	Microsoft iSCSI Software Initiator ~ msiscsi.sys 5.2.3790.3497 - N/A	Overland Storage Direct iSCSI Device ~ N/A

Quantum

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Quantum RDX8000 ~ R1.08 ~ QUANTUM^RDX8000_T [1]	Quantum LTO-4 ~ N/A ~ QUANTUM^ULTRIUM^4	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.0.6001.18000 - N/A	Quantum Direct iSCSI Device ~ N/A
Quantum Scalar i40 ~ 120G ~ QUANTUM^Scalar^i40-i80	Hewlett Packard Enterprise Ultrium 3000 LTO5 ~ Y23Z ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ N/A 6.1.7600.16385 - N/A	Chelsio USR1100-ESAS-FB ~ USR_v2.0.1
Quantum Scalar i500 ~ 586G ~ Quantum^Scalar^i500	Hewlett Packard Enterprise Ultrium 3280 LTO5 ~ X38Z ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ N/A 6.1.7600.16385 - N/A	Chelsio USR1100-ESAS-FB ~ USR_v2.0.1
Quantum Scalar i80 ~ 120G ~ QUANTUM^Scalar^i40-i80	Hewlett Packard Enterprise Ultrium 3000 LTO5 ~ Y23Z ~ HP^^^^^^Ultrium^5-SCSI	Microsoft iSCSI Software Initiator ~ N/A 6.1.7600.16385 - N/A	Chelsio USR1100-ESAS-FB ~ USR_v2.0.1

1. To Import, insert the RDX media into the slot(s) and select "Scan" from Backup Exec. Due to the physical design of the RDX8000, regular Backup Exec import jobs will result in error messages in the import job log.

Quest

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Quest DR4000 (Dell) ~ 0104 ~ DELL^^^^DR_L700 [1] [2]	IBM TotalStorage 3580 Ultrium 4 ~ 0104 ~ IBM^^^^^ULT3580-TD4	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Quest Direct iSCSI Device ~ N/A
Quest DR4100 (Dell) ~ 0104 ~ DELL^^^^DR_L700 [1] [2] [3]	IBM TotalStorage 3580 Ultrium 4 ~ 0104 ~ IBM^^^^^ULT3580-TD4	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Quest Direct iSCSI Device ~ N/A
Quest DR4300 ~ 4.0 ~ QUEST^^^DR_L700 [1] [4] [5] [6]	IBM TotalStorage 3580 Ultrium 4 ~ 0104 ~ IBM^^^^^ULT3580-TD4	Microsoft iSCSI Software Initiator ~ N/A 6.3.9600.18728 - N/A	Quest Direct iSCSI Device ~ N/A
Quest DR4300 (Dell) ~ 0104 ~ DELL^^^^DR_L700 [1] [2] [7]	IBM TotalStorage 3580 Ultrium 4 ~ 0104 ~ IBM^^^^^ULT3580-TD4	Microsoft iSCSI Software Initiator ~ msiscsi.sys 6.1.7601.18386 - N/A	Quest Direct iSCSI Device ~ N/A

1. Each VTL may only be assigned to a single server (no sharing).

2. Minimum DR software of 3.2.0.1 is required.

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3. The DR6000 is also supported as a member of the 12g family.

4. Minimum DR software of 4.0.2 is required for the Quest inquiry string.

5. Please see the Quest Migration Guide for changing Dell containers to Quest containers <https://support.quest.com/download/downloads?id=6084223>

6. The DR4000, DR4100, DR4300e, DR6000 and DR6300 are also supported using the Quest inquiry string.

7. The DR4300e and DR6300 are also supported as members of the 13g family.

StorageTek

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
StorageTek SL500 ~ 1048 ~ STK^^^^^SL500	IBM TotalStorage 3580 Ultrium 3 ~ 5BG2 ~ IBM^^^^^ULT3580-TD3	Marvell QLogic QLA4050C ~ ql40xx.sys 2.1.2.5 - 2.0.0.7	Marvell QLogic SANbox 6140 ~ 2.0.7.2d
StorageTek SL500 ~ 1048 ~ STK^^^^^SL500	IBM TotalStorage 3580 Ultrium 3 ~ 5BG2 ~ IBM^^^^^ULT3580-TD3	Marvell QLogic QLA4050C ~ ql40xx.sys 2.1.2.5 - 2.0.0.7	Marvell QLogic SANbox 6142 ~ 2.1.4.0a

Tandberg

Library ~ Firmware ~ Inquiry	Drive ~ Firmware ~ Inquiry	HBA ~ Driver ~ Firmware	Interconnect ~ Firmware
Tandberg DPS1100 VTL ~ 0363 ~ TANDBERGDPS1000 [1]	Hewlett Packard Enterprise Ultrium 960 LTO3 ~ G39W ~ HP^^^^^^Ultrium^3-SCSI	Microsoft iSCSI Software Initiator ~ e1g60i32.sys 6.0.6002 - N/A	Tandberg Direct iSCSI Device ~ N/A
Tandberg DPS1200 VTL ~ 0363 ~ TANDBERGDPS1000 [1]	Hewlett Packard Enterprise Ultrium 960 LTO3 ~ G39W ~ HP^^^^^^Ultrium^3-SCSI	Microsoft iSCSI Software Initiator ~ e1g60i32.sys 6.0.6002 - N/A	Tandberg Direct iSCSI Device ~ N/A
Tandberg RDX QuikStation ~ 0111 ~ TANDBERGQuikStation [2] [3] [4]	Hewlett Packard Enterprise Ultrium 960 LTO3 ~ D237 ~ HP^^^^^^Ultrium^3-SCSI	Microsoft iSCSI Software Initiator ~ e1g6030e.sys 6.0.6002 - N/A	Tandberg Direct iSCSI Device ~ N/A
Tandberg RDX QuikStation ~ 0210 ~ TANDBERGQuikStation [2] [3] [4]	Hewlett Packard Enterprise Ultrium 960 LTO3 ~ D237 ~ HP^^^^^^Ultrium^3-SCSI	Microsoft iSCSI Software Initiator ~ N/A 6.1.7601.17514 - N/A	Tandberg Direct iSCSI Device ~ N/A
Tandberg RDX QuikStation 4 ~ N/A ~ TANDBERGQuikStation [2] [3] [4]	Hewlett Packard Enterprise Ultrium 960 LTO3 ~ D237 ~ HP^^^^^^Ultrium^3-SCSI	Microsoft iSCSI Software Initiator ~ N/A 6.1.7601.17514 - N/A	Tandberg Direct iSCSI Device ~ N/A
Tandberg RDX QuikStation 8 ~ 01.003.02 ~ TANDBERGQuikStation [2] [3] [4]	Hewlett Packard Enterprise Ultrium 960 LTO3 ~ D237 ~ HP^^^^^^Ultrium^3-SCSI	Microsoft iSCSI Software Initiator ~ N/A 6.1.7601.17514 - N/A	Tandberg Direct iSCSI Device ~ N/A

1. Each VTL may only be assigned to a single server (no sharing), but the physical library may be connected to multiple servers.

2. See the referenced document for more details. (https://www.veritas.com/content/support/en_US/article.100005429)

3. The VTL may only be assigned to a single server (no sharing).

4. This VTL has been validated as a backup device for use with VMware.

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Retiring Soon

The devices in this section will not be listed as supported in the Hardware Compatibility List for the next major Backup Exec release. Many of these devices are end-of-life products that are no longer supported by the manufacturer. This is a prediction, subject to frequent change, until the next version is actually released. This section is primarily for your education only as **IT HAS NO DIRECT IMPACT ON YOUR CURRENT SUPPORTABILITY.**

If this list contains a device you are actively using and are concerned about lack of support, please email <Backup_Exec_HCL@veritas.com> with details of the specific device you are using.

Retiring Cloud Storage OST

Datish Systems OpenDedupe

Cloud Storage Solution	Filesystem Version	Datish Plug-in version	Windows Server 2012	Windows Server 2016	Supported Regions
OpenDedupe for Amazon AWS (S3 Standard), Azure, Google (Regional, Multi-Regional)	Datish Systems SDFS 3.4.10.1	2.1.3.0	✔	✔	US only
OpenDedupe for Amazon AWS (S3 Standard, Glacier), Azure, Azure Archive, Google (Regional, Multi-Regional)	Datish Systems SDFS 3.6.0.13	2.2.7.0	✔	✔	All Regions

Quantum

Cloud Storage Solution	Cloud API Version	Quantum Plug-in version	Windows Server 2008	Windows Server 2012	Windows Server 2016
Q-Cloud Protect for AWS	DXi Software 3.1.1	3.1	✔	✔	✔

Retiring OST-Appliance

This OST section contains rows that frequently indicate that support for a plug-in will expire in the next version of Backup Exec, per the OST vendor's request. Please do not assume that support for the entire device is withdrawn. Your OST device and OST plug-in version probably just need to be updated.

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Datish Systems (OpenDedup)

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2012	Windows Server 2016	Supported OpenStorage Functionality
SDFS Cloud File System	SDFS Cloud File System	2.1	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication

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Support End-of-Life

EOL Notice: These devices are no longer officially supported for use with this version of Backup Exec. This is a periodic process to bring Backup Exec support in line with what is still supported by the hardware vendors and/or the device's age, capacity or performance. Please be aware that different vendors may have different EOL policies for their particular model of a common device. See the HCL introduction for further clarification of our policies and goals. No changes were made to Backup Exec to drop support or recognition for these devices, so it is fully expected that they will continue to work with this version of Backup Exec. But if a problem is discovered with the device, it is likely that vendor support, repair parts, and/or firmware fixes are no longer available which limits the ability of our Veritas technical support team to help resolve your issue. Please be aware that Windows 2008 (and newer) treats some devices (especially ATAPI/IDE/SATA) different than Windows 2003 did, so if you are moving old hardware to a new server, the operating system change may have more of an impact than changing versions of Backup Exec.

OST Note: The OST section contains rows that frequently indicate that support for a plug-in has expired, per the OST vendor's request. Please do not assume that support for the entire device is withdrawn. Your OST device and OST plug-in version probably just need to be updated.

End-of-Life Disk Storage

Imation

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
DataGuard Appliances	CIFS	✔	S	R4, T5R	
DataGuard Appliances	iSCSI	✔	✔	R4, T5R	✔

Nexsan

Family	Connectivity	Basic B2D	GRT Tested	Devices	BEDedup
Beast Systems	Fibre Channel	✔	✔	SASBeast, SATABeast, SATABeast2	✔
Beast Systems	iSCSI	✔	✔	SASBeast, SATABeast, SATABeast2	✔
Boy Systems	Fibre Channel	✔	✔	SASBoy, SATABoy2	✔
Boy Systems	iSCSI	✔	✔	SASBoy, SATABoy2	✔
SATABoy	Fibre Channel	✔	✔	SATABoy	✔
SATABoy	iSCSI	✔	✔	SATABoy	✔

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End-of-Life OST-Appliance

This OST section contains rows that frequently indicate that support for a plug-in has expired, per the OST vendor's request. Please do not assume that support for the entire device is withdrawn. Your OST device and OST plug-in version probably just need to be updated.

Dell EMC

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Supported OpenStorage Functionality
DR Series	DR4000, DR4100, DR6000	3.2	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication

Dell EMC Data Domain

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
Appliance series	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
Appliance series	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	3.2	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
Appliance series	DD2200, DD2500, DD3300, DD4200, DD4500, DD6300, DD6400, DD6800, DD6900, DD7200, DD9300, DD9400, DD9500, DD9800, DD9900	3.3	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Virtual Edition (Hyper-V)	Virtual Edition (Hyper-V)	3.3	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	3.2	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
Virtual Edition (VMware)	Virtual Edition (VMware)	3.3	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication

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ExaGrid

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
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	V11.4.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
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	V11.4.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication

FalconStor

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Supported OpenStorage Functionality
FDS series	FDS 100, FDS 300, FDS 600	2.2	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication

Fujitsu

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
ETERNUS CS800 S4	ETERNUS CS800 S4	3.0 [1]	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
ETERNUS CS800 S5	ETERNUS CS800 S5	3.0	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
ETERNUS CS800 S6	ETERNUS CS800 S6	3.0	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication

1. WORM support requires plug-in version 11.0.0 or later, Fujitsu OS 4.5.2 or later and BE 21.4 or later.

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H3C

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Supported OpenStorage Functionality
CP3310	CP3310	2.0	Ethernet	✔	Basic Deduplication, Optimized Duplication
CP3352	CP3352	2.0	Ethernet	✔	Basic Deduplication, Optimized Duplication
CP3354	CP3354	2.0	Ethernet	✔	Basic Deduplication, Optimized Duplication
CP5510	CP5510	2.0	Ethernet	✔	Basic Deduplication, Optimized Duplication
CP5550	CP5550	2.0	Ethernet	✔	Basic Deduplication, Optimized Duplication
CP6660	CP6660	2.0	Ethernet	✔	Basic Deduplication, Optimized Duplication

Hewlett Packard Enterprise

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
StoreOnce 2000 series	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 3000 series	StoreOnce 3100	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 3500/3600 series	StoreOnce 3520, StoreOnce 3540, StoreOnce 3620, StoreOnce 3640, StoreOnce 3660	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 4000 series	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 5000 series	StoreOnce 5100, StoreOnce 5200, StoreOnce 5250, StoreOnce 5500, StoreOnce 5650	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce 6000 series	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce VSA (Hyper-V)	StoreOnce VSA (Hyper-V)	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication
StoreOnce VSA (VMware)	StoreOnce VSA (VMware)	2.0	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication

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Quantum

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
DXi6000 Series	DXi6510, DXi6520, DXi6530, DXi6540, DXi6550	3.1 [1]	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi6000 Series	DXi6510, DXi6520, DXi6530, DXi6540, DXi6550	10.0 [1]	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi6000 Series	DXi6510, DXi6520, DXi6530, DXi6540, DXi6550	10.1 [1]	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi6700 Series	DXi6700, DXi6701, DXi6702	3.1 [1]	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi6700 Series	DXi6700, DXi6701, DXi6702	10.0 [1]	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi6700 Series	DXi6700, DXi6701, DXi6702	10.1 [1]	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication
DXi8500 Series	DXi8500, DXi8500 2TB, DXi8500 3TB	3.1	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DXi8500 Series	DXi8500, DXi8500 2TB, DXi8500 3TB	10.0	Ethernet	✔	✔	✔	✔		Basic Deduplication, Optimized Duplication
DXi8500 Series	DXi8500, DXi8500 2TB, DXi8500 3TB	10.1	Ethernet	✔	✔	✔	✔	✔	Basic Deduplication, Optimized Duplication

1. WORM support requires plug-in version 11.0.0 or later, Quantum DXi Software 4.6.0 or later and BE 21.4 or later.

Quest

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Windows Server 2016	Windows Server 2019	Windows Server 2022	Supported OpenStorage Functionality
DR 11g Series	DR4000	3.2 [1]	Ethernet	✔	✔				Basic Deduplication, Optimized Duplication
DR 11g Series	DR4000	4.0 [1]	Ethernet	✔	✔	✔			Basic Deduplication, Optimized Duplication

1. WORM support requires plug-in version 11.0.0 or later, Quantum DXi Software 4.6.0 or later and BE 21.4 or later.

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Veritas

Storage Server Family	Storage Server Family Members	Plug-in	Data Interface	Windows Server 2008	Windows Server 2012	Supported OpenStorage Functionality
NetBackup 5000	NetBackup 5000	6.6.5	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication
NetBackup 5020	NetBackup 5020	6.6.5	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication
NetBackup 5030	NetBackup 5030	6.6.5	Ethernet	✔	✔	Basic Deduplication, Optimized Duplication

End-of-Life Tape Libraries with Drives

Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
ETERNUS LT20	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT20	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT20	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^3-SCSI
ETERNUS LT20	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT20	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT40	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT40	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT40	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT40	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT40	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^3-SCSI
ETERNUS LT40	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^4-SCSI

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Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
ETERNUS LT40	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT40	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT40	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT60	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT60	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT60	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT60	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT60	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^3-SCSI
ETERNUS LT60	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT60	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^4-SCSI
ETERNUS LT60	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT60	SAS	Hewlett Packard Enterprise	Ultrium 3280 LTO5	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^5-SCSI
ETERNUS LT210 (T16A2)	SAS	IBM	System Storage TS2230 Ultrium 3 Half Height	SAS	NEC^^^^^T16A2 IBM^^^^^ULT3580-HH3
ETERNUS LT210 (T16A2)	SCSI	IBM	System Storage TS2230 Ultrium 3 Half Height	SCSI	NEC^^^^^T16A2 IBM^^^^^ULT3580-HH3
ETERNUS LT210 (T16A2)	SCSI	IBM	Ultrium 4 (U160)	SCSI	NEC^^^^^T16A2 IBM^^^^^ULTRIUM-TD4
ETERNUS LT220 (T16A)	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	NEC^^^^^T16A IBM^^^^^ULT3580-TD3
ETERNUS LT220 (T16A2)	SCSI	IBM	System Storage TS2230 Ultrium 3 Half Height	SCSI	NEC^^^^^T16A2 IBM^^^^^ULT3580-HH3
ETERNUS LT220 (T16A2)	SCSI	IBM	Ultrium 4 (U160)	SCSI	NEC^^^^^T16A2 IBM^^^^^ULTRIUM-TD4

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Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
ETERNUS LT230 (T40A)	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	NEC^^^^^T40A IBM^^^^^ULT3580-TD3
ETERNUS LT230 (T40A2)	Fibre Channel	IBM	Ultrium 3	Fibre Channel	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD3
ETERNUS LT230 (T40A2)	Fibre Channel	IBM	Ultrium 4	Fibre Channel	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD4
ETERNUS LT230 (T40A2)	SCSI	IBM	Ultrium 3	SCSI	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD3
ETERNUS LT250	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	FUJITSU^NML7A HP^^^^^^Ultrium^3-SCSI
ETERNUS LT250	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULT3580-TD5
ETERNUS LT250	Fibre Channel	IBM	Ultrium 3	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD3
ETERNUS LT250	Fibre Channel	IBM	Ultrium 4	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD4
ETERNUS LT250	Fibre Channel	IBM	Ultrium 6	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD6
ETERNUS LT250	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	FUJITSU^NML7A HP^^^^^^Ultrium^3-SCSI
ETERNUS LT250	SCSI	IBM	Ultrium 3	SCSI	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD3
ETERNUS LT270	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	FUJITSU^NML10A HP^^^^^^Ultrium^3-SCSI
ETERNUS LT270	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	FUJITSU^NML10A IBM^^^^^ULT3580-TD5
ETERNUS LT270	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	FUJITSU^NML10A IBM^^^^^ULT3580-TD3
ETERNUS LT270	Fibre Channel	IBM	Ultrium 4	Fibre Channel	FUJITSU^NML10A IBM^^^^^ULTRIUM-TD4
FibreCAT TX08	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^4-SCSI
FibreCAT TX08	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^3-SCSI
FibreCAT TX08	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^4-SCSI

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Fujitsu

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
FibreCAT TX08	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	FSC^^^^^FibreCAT^TX08 HP^^^^^^Ultrium^3-SCSI
FibreCAT TX24 S2	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^4-SCSI
FibreCAT TX24 S2	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^3-SCSI
FibreCAT TX24 S2	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FSC^^^^^FibreCAT-TX24^S2 HP^^^^^^Ultrium^4-SCSI
FibreCAT TX24	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	FSC^^^^^FibreCAT^TX24 HP^^^^^^Ultrium^3-SCSI
FibreCAT TX24	SCSI	IBM	Ultrium 3	SCSI	FSC^^^^^FibreCAT^TX24 IBM^^^^^ULTRIUM-TD3
FibreCAT TX48 S2	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^4-SCSI
FibreCAT TX48 S2	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^3-SCSI
FibreCAT TX48 S2	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	FSC^^^^^FibreCAT-TX48^S2 HP^^^^^^Ultrium^4-SCSI
FibreCAT TX48	Fibre Channel	IBM	Ultrium 3	Fibre Channel	FSC^^^^^FibreCAT^TX48 IBM^^^^^ULTRIUM-TD3
FibreCAT TX48	Fibre Channel	IBM	Ultrium 4	Fibre Channel	FSC^^^^^FibreCAT^TX48 IBM^^^^^ULTRIUM-TD4
FibreCAT TX48	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	FSC^^^^^FibreCAT^TX48 HP^^^^^^Ultrium^3-SCSI
FibreCAT TX48	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	FSC^^^^^FibreCAT^TX48 IBM^^^^^ULT3580-TD3

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Hewlett Packard Enterprise

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
EML E-Series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	HP^^^^^^EML^E-Series HP^^^^^^Ultrium^3-SCSI
EML E-Series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	HP^^^^^^EML^E-Series HP^^^^^^Ultrium^4-SCSI
EML E-Series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	HP^^^^^^EML^E-Series HP^^^^^^Ultrium^5-SCSI
EML E-Series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6650 LTO6	Fibre Channel	HP^^^^^^EML^E-Series HP^^^^^^Ultrium^6-SCSI

NEC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
T16A2	SAS	IBM	System Storage TS2240 Ultrium 4 Half Height	SAS	NEC^^^^^T16A2 IBM^^^^^ULT3580-HH4
T16A2	SAS	IBM	System Storage TS2350 Ultrium 5	SAS	NEC^^^^^T16A2 IBM^^^^^ULT3580-TD5
T16A2	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	NEC^^^^^T16A2 HP^^^^^^Ultrium^3-SCSI
T16A2	SCSI	IBM	System Storage TS2230 Ultrium 3 Half Height	SCSI	NEC^^^^^T16A2 IBM^^^^^ULT3580-HH3
T16A2	SCSI	IBM	Ultrium 4 (U160)	SCSI	NEC^^^^^T16A2 IBM^^^^^ULTRIUM-TD4
T40A2	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	NEC^^^^^T40A2 HP^^^^^^Ultrium^3-SCSI
T40A2	Fibre Channel	IBM	System Storage TS2350 Ultrium 5	Fibre Channel	NEC^^^^^T40A2 IBM^^^^^ULT3580-TD5
T40A2	Fibre Channel	IBM	Ultrium 3	Fibre Channel	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD3
T40A2	Fibre Channel	IBM	Ultrium 4	Fibre Channel	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD4
T40A2	SAS	IBM	System Storage TS2350 Ultrium 5	SAS	NEC^^^^^T40A2 IBM^^^^^ULT3580-TD5
T40A2	SAS	IBM	Ultrium 4	SAS	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD4

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NEC

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
T40A2	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	NEC^^^^^T40A2 HP^^^^^^Ultrium^3-SCSI
T40A2	SCSI	IBM	Ultrium 3	SCSI	NEC^^^^^T40A2 IBM^^^^^ULTRIUM-TD3
T100A	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	FUJITSU^NML7A HP^^^^^^Ultrium^3-SCSI
T100A	Fibre Channel	IBM	Ultrium 4	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD4
T100A	SCSI	Hewlett Packard Enterprise	Ultrium 960 LTO3	SCSI	FUJITSU^NML7A HP^^^^^^Ultrium^3-SCSI
T100A2	Fibre Channel	IBM	Ultrium 5	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD5
T100A2	Fibre Channel	IBM	Ultrium 6	Fibre Channel	FUJITSU^NML7A IBM^^^^^ULTRIUM-TD6
T700A	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	Fibre Channel	FUJITSU^NML10A HP^^^^^^Ultrium^3-SCSI
T700A	Fibre Channel	IBM	Ultrium 4	Fibre Channel	FUJITSU^NML10A IBM^^^^^ULTRIUM-TD4
T700A2	Fibre Channel	IBM	Ultrium 5	Fibre Channel	ETERNUS^LT270S2 IBM^^^^^ULTRIUM-TD5
T700A2	Fibre Channel	IBM	Ultrium 6	Fibre Channel	ETERNUS^LT270S2 IBM^^^^^ULTRIUM-TD6

Overland Storage

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
NEO 100s 2nd Generation	SAS	IBM	Ultrium 5 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULTRIUM-HH5
NEO 100s 2nd Generation	SAS	IBM	Ultrium 6 Half Height	SAS	IBM^^^^^3572-TL IBM^^^^^ULTRIUM-HH6
NEOs series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI
NEOs series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	Fibre Channel	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI

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Overland Storage

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
NEOs series	SAS	Hewlett Packard Enterprise	Ultrium 920 LTO3	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI
NEOs series	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI
NEOs series	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^5-SCSI
NEOs series	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^3-SCSI
NEOs series	SCSI	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SCSI	HP^^^^^^MSL^G3^Series HP^^^^^^Ultrium^4-SCSI
NEOs series 2nd Generation	Fibre Channel	IBM	Ultrium 4 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4
NEOs series 2nd Generation	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH5
NEOs series 2nd Generation	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH6
NEOs series 2nd Generation	SAS	IBM	Ultrium 4 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH4
NEOs series 2nd Generation	SAS	IBM	Ultrium 5 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH5
NEOs series 2nd Generation	SAS	IBM	Ultrium 6 Half Height	SAS	IBM^^^^^3573-TL IBM^^^^^ULTRIUM-HH6

Qualstar

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
RLS-8000 LTO series	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	QUALSTARRLS-8 IBM^^^^^ULTRIUM-HH5
RLS-8000 LTO series	SAS	IBM	Ultrium 5 Half Height	SAS	QUALSTARRLS-8 IBM^^^^^ULTRIUM-HH5
RLS-8000 LTO series	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	QUALSTARRLS-8 IBM^^^^^ULT3580-TD3
RLS-8000D LTO series	Fibre Channel	IBM	Ultrium 4	Fibre Channel	QUALSTARRLS-8 IBM^^^^^ULTRIUM-TD4

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Qualstar

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
RLS-8000D LTO series	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	QUALSTARRLS-8 IBM^^^^^ULTRIUM-HH5
RLS-8000D LTO series	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	QUALSTARRLS-8 IBM^^^^^ULTRIUM-HH6
RLS-8000D LTO series	SAS	IBM	Ultrium 5 Half Height	SAS	QUALSTARRLS-8 IBM^^^^^ULTRIUM-HH5
TLS-5000 SAIT series	SCSI	IBM	Ultrium 4 (U320)	SCSI	QUALSTARTLS-5 IBM^^^^^ULTRIUM-TD4
TLS-5000 SAIT series	SCSI	IBM	Ultrium 4	Fibre Channel	QUALSTARTLS-5 IBM^^^^^ULTRIUM-TD4
TLS-8000 LTO series	Fibre Channel	IBM	TotalStorage 3580 Ultrium 3	Fibre Channel	QUALSTARTLS-8 IBM^^^^^ULT3580-TD3
TLS-8000 LTO series	Fibre Channel	IBM	Ultrium 4	Fibre Channel	QUALSTARTLS-8 IBM^^^^^ULTRIUM-TD4
TLS-8000 LTO series	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	QUALSTARTLS-8 IBM^^^^^ULTRIUM-HH5
TLS-8000 LTO series	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	QUALSTARTLS-8 IBM^^^^^ULTRIUM-HH6
TLS-8000 LTO series	SAS	IBM	Ultrium 5 Half Height	SAS	QUALSTARTLS-8 IBM^^^^^ULTRIUM-HH5
TLS-8000 LTO series	SAS	IBM	Ultrium 6 Half Height	SAS	QUALSTARTLS-8 IBM^^^^^ULTRIUM-HH6
TLS-8000 LTO series	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	QUALSTARTLS-8 IBM^^^^^ULT3580-TD3
TLS-8000 LTO series	SCSI	IBM	Ultrium 3	Fibre Channel	QUALSTARTLS-8 IBM^^^^^ULTRIUM-TD3
TLS-8000 LTO series	SCSI	IBM	Ultrium 4 (U160)	SCSI	QUALSTARTLS-8 IBM^^^^^ULTRIUM-TD4
XLS-8000	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	QUALSTARXLS-8000 IBM^^^^^ULT3580-TD3

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Quantum

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
Scalar i40/i80 series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1760 LTO4	Fibre Channel	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^4-SCSI
Scalar i40/i80 series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	Fibre Channel	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^4-SCSI
Scalar i40/i80 series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3000 LTO5	Fibre Channel	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^5-SCSI
Scalar i40/i80 series	Fibre Channel	Hewlett Packard Enterprise	Ultrium 6250 LTO6	Fibre Channel	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^6-SCSI
Scalar i40/i80 series	Fibre Channel	IBM	Ultrium 5 Half Height	Fibre Channel	QUANTUM^Scalar^i40-i80 IBM^^^^^ULTRIUM-HH5
Scalar i40/i80 series	Fibre Channel	IBM	Ultrium 6 Half Height	Fibre Channel	QUANTUM^Scalar^i40-i80 IBM^^^^^ULTRIUM-HH6
Scalar i40/i80 series	Fibre Channel	IBM	Ultrium 7 Half Height	Fibre Channel	QUANTUM^Scalar^i40-i80 IBM^^^^^ULTRIUM-HH7
Scalar i40/i80 series	SAS	Hewlett Packard Enterprise	Ultrium 1760 LTO4	SAS	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^4-SCSI
Scalar i40/i80 series	SAS	Hewlett Packard Enterprise	Ultrium 1840 LTO4	SAS	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^4-SCSI
Scalar i40/i80 series	SAS	Hewlett Packard Enterprise	Ultrium 3000 LTO5	SAS	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^5-SCSI
Scalar i40/i80 series	SAS	Hewlett Packard Enterprise	Ultrium 6250 LTO6	SAS	QUANTUM^Scalar^i40-i80 HP^^^^^^Ultrium^6-SCSI
Scalar i40/i80 series	SAS	IBM	Ultrium 5 Half Height	SAS	QUANTUM^Scalar^i40-i80 IBM^^^^^ULTRIUM-HH5
Scalar i40/i80 series	SAS	IBM	Ultrium 6 Half Height	SAS	QUANTUM^Scalar^i40-i80 IBM^^^^^ULTRIUM-HH6
Scalar i40/i80 series	SAS	IBM	Ultrium 7 Half Height	SAS	QUANTUM^Scalar^i40-i80 IBM^^^^^ULTRIUM-HH7

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Spectra Logic

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
Spectra T24	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	SPECTRA^GECKO HP^^^^^^Ultrium^3-SCSI

Tandberg

Device	Library Interface	Drive Mfr.	Drive Model	Drive Interface	Library Inquiry Drive Inquiry
StorageLibrary T40	Fibre Channel	IBM	Ultrium 3	Fibre Channel	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD3
StorageLibrary T40	Fibre Channel	IBM	Ultrium 4	Fibre Channel	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD4
StorageLibrary T40	SCSI	IBM	Ultrium 3	SCSI	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD3
StorageLibrary T40	SCSI	IBM	Ultrium 4 (U160)	SCSI	TANDBERGStorageLoader IBM^^^^^ULTRIUM-TD4
StorageLibrary T48	Fibre Channel	IBM	Ultrium 3	Fibre Channel	EXABYTE^MAGNUM^448 IBM^^^^^ULTRIUM-TD3
StorageLibrary T48	Fibre Channel	IBM	Ultrium 4	Fibre Channel	EXABYTE^MAGNUM^448 IBM^^^^^ULTRIUM-TD4
StorageLibrary T48	SAS	IBM	Ultrium 4 Half Height	SAS	EXABYTE^MAGNUM^448 IBM^^^^^ULTRIUM-HH4
StorageLibrary T48	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	EXABYTE^MAGNUM^448 HP^^^^^^Ultrium^3-SCSI
StorageLibrary T48	SCSI	IBM	Ultrium 3	SCSI	EXABYTE^MAGNUM^448 IBM^^^^^ULTRIUM-TD3
StorageLibrary T48	SCSI	IBM	Ultrium 4 (U160)	SCSI	EXABYTE^MAGNUM^448 IBM^^^^^ULTRIUM-TD4
StorageLibrary T48	SCSI	IBM	Ultrium 4 Half Height (U320)	SCSI	EXABYTE^MAGNUM^448 IBM^^^^^ULTRIUM-HH4
StorageLoader 2U LTO	SCSI	Hewlett Packard Enterprise	Ultrium 920 LTO3	SCSI	EXABYTE^MAGNUM^224 HP^^^^^^Ultrium^3-SCSI
StorageLoader 2U LTO	SCSI	IBM	TotalStorage 3580 Ultrium 3	SCSI	EXABYTE^MAGNUM^224 IBM^^^^^ULT3580-TD3
StorageLoader 2U LTO	SCSI	IBM	Ultrium 4 (U160)	SCSI	EXABYTE^MAGNUM^224 IBM^^^^^ULTRIUM-TD4

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End-of-Life Virtual Tape Libraries with Drives

Hewlett Packard Enterprise

Device	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry
D2D4000 Series Backup System	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	HP^^^^^^D2DBS HP^^^^^^Ultrium^4-SCSI
D2D4100 G2 Series Backup System	Fibre Channel	Hewlett Packard Enterprise	Ultrium 3280 LTO5	HP^^^^^^D2DBS HP^^^^^^Ultrium^5-SCSI
D2D4100 Series Backup System	Fibre Channel	Hewlett Packard Enterprise	Ultrium 1840 LTO4	HP^^^^^^D2DBS HP^^^^^^Ultrium^4-SCSI
VLS 12000 EVA Gateway	Fibre Channel	Hewlett Packard Enterprise	Ultrium 230 LTO1	HP^^^^^^VLS HP^^^^^^Ultrium^1-SCSI
VLS 12000 EVA Gateway	Fibre Channel	Hewlett Packard Enterprise	Ultrium 460 LTO2	HP^^^^^^VLS HP^^^^^^Ultrium^2-SCSI
VLS 12000 EVA Gateway	Fibre Channel	Hewlett Packard Enterprise	Ultrium 960 LTO3	HP^^^^^^VLS HP^^^^^^Ultrium^3-SCSI

IBM

Device	Library Interface	Drive Mfr.	Drive Model	Library Inquiry Drive Inquiry
Virtualization Engine TS7530	Fibre Channel	IBM	System Storage TS2340 Ultrium 4	IBM^^^^^TS7530 IBM^^^^^ULT3580-TD4

End-of-Life NDMP Platforms

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Dell EMC

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
Compellent FS8600	FluidFS 2.0	Remote	✔	✔	
Compellent FS8600	FluidFS 3.0	Remote	✔	✔	
EqualLogic FS7500	Scalable File System 1.0	Remote	✔	✔	
EqualLogic FS7500	FluidFS 2.0	Remote	✔	✔	
EqualLogic FS7500	FluidFS 3.0	Remote	✔	✔	
EqualLogic FS7600	FluidFS 2.0	Remote	✔	✔	
EqualLogic FS7600	FluidFS 3.0	Remote	✔	✔	
EqualLogic FS7610	FluidFS 2.0	Remote	✔	✔	
EqualLogic FS7610	FluidFS 3.0	Remote	✔	✔	
PowerVault NX3500	Scalable File System 1.0	Remote	✔	✔	
PowerVault NX3500	FluidFS 2.0	Remote	✔	✔	
PowerVault NX3500	FluidFS 3.0	Remote	✔	✔	
PowerVault NX3600	FluidFS 2.0	Remote	✔	✔	
PowerVault NX3600	FluidFS 3.0	Remote	✔	✔	
PowerVault NX3610	FluidFS 2.0	Remote	✔	✔	
PowerVault NX3610	FluidFS 3.0	Remote	✔	✔	
Unity series	Unity Operating Environment 4.0	Remote, 3-way	✔	✔	

Dell EMC Isilon

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
Scale-Out NAS	OneFS 5.5.7.9	Direct Attach, Remote, 3-way			✔
Scale-Out NAS	OneFS 6.5.1.8	Direct Attach, Remote, 3-way	✔	✔	✔
Scale-Out NAS	OneFS 7.0	Direct Attach, Remote, 3-way	✔	✔	✔

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Hitachi Vantara

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
NAS Platform, 4000 and 3000 Series	Hitachi NAS OS 11	Direct Attach, Remote, 3-way	✔	✔	✔

IBM

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
System Storage N series	Data ONTAP 7.2.3	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP 7.3.6	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.0 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.0 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1.2 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1.2 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1.3 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1.3 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1.4 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.1.4 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.2 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.2 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.2.2 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
System Storage N series	Data ONTAP v8.2.2 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔

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NetApp

Device	Software Tested	Connection Method	Direct Access Restore	Directory Direct Access Restore	ESO
FAS Series	Data ONTAP v7.0.3	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series	Data ONTAP v7.2.3	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series	Data ONTAP v7.3.1	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series	Data ONTAP v7.3.6	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series	Data ONTAP v8.0 (7-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔
FAS Series	Data ONTAP v8.0 (Cluster-Mode)	Direct Attach, Remote, 3-way	✔	✔	✔

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