Quest® QoreStor™ 7.6.1

Interoperability Guide

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Legend

CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

IMPORTANT, **NOTE**, **TIP**, **MOBILE**, or **VIDEO**: An information icon indicates supporting information.

QoreStor Interoperability Guide
Updated - May 2026
Version - 7.6.1

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Introduction

This guide provides information about hardware and software requirements for Quest® QoreStor™ installation, as well as additional third-party software applications supported for use with QoreStor.

Other information you may need

The following table lists the documentation available for QoreStor. The documents listed in this table are available on the Quest support website by selecting your specific QoreStor version at:

http://support.quest.com/QoreStor

Table 1: QoreStor documentation

Document	Description
QoreStor Installation Guide	Provides information on installation and operation requirements, supported platforms, and procedures for installing QoreStor.
QoreStor User Guide	Provides information on configuring and using QoreStor.
QoreStor Release Notes	Provides the latest information about new features and known issues with a specific product release.
QoreStor Command Line Reference Guide	Provides information about managing QoreStor data backup and replication operations using the QoreStor command line interface (CLI).
QoreStor Interoperability Guide	Provides information on supported infrastructure components.
QoreStor Virtual Machine Deployment Guide	Provides information on deploying the QoreStor virtual machine on VMware ESX or Microsoft Hyper-V.
Additional whitepapers	Instructions and best practices for configuring additional Quest and third-party applications to work with QoreStor.

NOTE: Check for the latest documentation updates and release notes at http://support.quest.com/qorestor. Read the release notes first because they contain the most recently documented information about known issues with a specific product release.

Information on compatible products

QoreStor offers direct integration with Quest Software's NetVault® Backup and vRanger®, as well as Veritas NetBackup and Backup Exec. For more information on those products refer to the documents below.

Table 2: Quest NetVault documentation

Document	Description
NetVault Installation Guide	Provides information about installing and upgrading the NetVault server and client software.
NetVault Administration Guide	Describes how to configure and use NetVault to protect your data. This document also provides information on configuring QoreStor repositories and migrating NetVault SmartDisk data to the new QoreStor repository.
NetVault Release Notes	Provides the latest information about new features and known issues with a specific product release.

NOTE: See the complete NetVault documentation at https://support.quest.com/netvault.

Table 3: Quest vRanger documentation

Document	Description
vRanger Installation/Upgrade Guide	This document provides information on supported platforms, system requirements, and instructions on installing and upgrading vRanger.
vRanger User Guide	This document provides information and procedures on configuring and using vRanger to protect virtual and physical environments.
vRanger Release Notes	This document details the issues resolved in this release, the known issues as of this release, and the third-party components in vRanger.

NOTE: See the complete vRanger documentation at https://support.quest.com/vranger.

Table 4: Veritas documentation

Document	Description
Veritas NetBackup	For information on Veritas NetBackup, refer to the NetBackup product documentation.
Veritas Backup Exec	For information on Veritas Backup Exec, refer to the Backup Exec product documentation.

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Installation Requirements

The information in this section describes the minimum hardware and software requirements for QoreStor installation.

QoreStor installation modes

QoreStor can be installed in one several installation modes, each with different hardware requirements and expected performance levels. When QoreStor is installed in Object Direct mode, the installation modes available are slightly different and support different capacities.

Installation modes for standard QoreStor installations

- **Enterprise Plus** - This is the mode of installation that will yield the highest capacity and performance. This mode supports a back-end capacity of up to 512 TB. It also requires that the data and metadata volumes are on separate RAID sets.
- **Enterprise** - This mode supports a back-end capacity of up to 360 TB. It also requires that the data and metadata volumes are on separate RAID sets.
- **Standard** - This is the mode of installation that will suit most environments as it supports a back-end capacity of up to 150 TB.
- **Cloud Optimized** - This is a smaller footprint installation designed to maximize cost-effectiveness for operation in cloud environments. The data dictionary size is reduced to reflect the lower backend capacity limit of 43 TB.

NOTE: When QoreStor is installed in Cloud Optimized mode, Archive tier is not supported.

NOTE: For information on available virtual machine configurations, see "QoreStor VM Specifications" in the *QoreStor Interoperability Guide*.

Installation modes for installing QoreStor in Object Direct Configuration

- **Enterprise** - This is the mode of installation that will yield the highest capacity and performance. Enterprise mode supports a back-end capacity of up to 360 TB. Additionally, 44 TB of SSD storage must be configured for QoreStor metadata.
- **Standard** - This is the mode of installation that will suit most environments as it supports a back end capacity of up to 150 TB. Additionally, 18 TB of SSD storage must be configured for QoreStor metadata.
- **Cloud Optimized** - This is a smaller footprint installation designed to maximize cost-effectiveness for operation in cloud environments. The data dictionary size is reduced to reflect the lower backend capacity limit of 43 TB. Additionally, 4 TB of additional storage must be configured for QoreStor metadata.

NOTE: When QoreStor is installed in Cloud Optimized mode, Archive tier is not supported.

NOTE: When QoreStor is installed in an Object Direct configuration, VTL containers are not supported.

NOTE: When QoreStor is installed in an Object Direct configuration, the minimum required swap space is 16 GB.

NOTE: When QoreStor is installed in an Object Direct configuration, seed import operation is not supported.

Hardware requirements

The hardware requirements for QoreStor installation differ depending on whether you are installing QoreStor in Object Direct mode or regular mode.

Hardware requirements for standard installations

QoreStor can be installed in one of four modes: Enterprise Plus, Enterprise, Standard, and Cloud Optimized. Each installation mode has different minimum installation requirements, as described in the following table. Refer to QoreStor installation modes for more information on the installation modes. The following table lists the minimum hardware requirements for installation.

NOTE:
Please note that if you are upgrading from the existing QoreStor version to a 7.6.1 version, you are not required to meet the minimum hardware requirements.

Table 5: Hardware requirements for installation

	Enterprise Plus Mode	Enterprise Mode	Standard Mode	Cloud Optimized Mode

CPU cores	32	32	8	4
RAM	256 GB[1]	64 GB	32 GB	32GB
RAM with Enhanced Data Mover support	264 GB	72 GB	40 GB	40 GB
Storage capacity	Minimum of 500 GB free space on repository volume. Minimum of 9 TB free space on metadata or Minimum of 2 TiB free space on metadata when cloud support is not enabled during install.	Minimum of 500 GB free space on repository volume. Minimum of 7 TB free space on metadata or Minimum of 1 TiB free space on metadata when cloud support is not enabled during install.	Minimum of 500 GB free space on repository volume. Minimum of 3 TB free space on metadata volume or Minimum of 750 GiB free space on metadata when cloud support is not enabled during install.	Minimum of 500 GB free space on repository volume. Minimum of 1 TB free space on metadata volume Minimum of 400 GiB free space on metadata when cloud support is not enabled during install.
Additional storage requirements	Storage back-end should support: • 20,000 IOPS for sequential writes • 20,000 IOPS for Metadata with random writes • 450 IOPS for data volume with random writes Recommended back-end configuration is: • RAID 6 with 48 to 60 disks for repository • RAID1 or RAID10 with 2 to 4 drives for metadata. Maximum supported physical capacity is 512 TB	Storage back-end should support: • 20,000 IOPS for sequential writes • 20,000 IOPS for Metadata with random writes • 450 IOPS for data volume with random writes Recommended back-end configuration is: • RAID 6 with 48 to 60 disks for repository • RAID1 or RAID10 with 2 to 4 drives for metadata. Maximum supported physical capacity is 360 TB	Storage back-end should support: • 450 IOPS for sequential writes • 10,000 IOPS for Metadata with random writes • 450 IOPS for data volume with random writes Recommended back-end configuration is RAID 6 with 12 disks. Maximum supported physical capacity is 150TB	Storage back-end should support: • 450 IOPS for sequential writes • 6,000 IOPS for Metadata with random writes • 450 IOPS for data volume with random writes Recommended back-end configuration is RAID 6 with 6 disks Maximum supported physical capacity is 43TB

[1] : MSP mode, when enabled in Enterprise Plus requires 288GB of RAM.

Hardware requirements for installation in Object Direct mode

When installed in an object direct configuration, QoreStor can be installed in one of three modes: Enterprise, Standard, and Cloud Optimized. Each installation mode has different minimum installation requirements, as described below. Refer to QoreStor installation modes for more information on the installation modes.

Table 6: Hardware requirements for installation

	Enterprise Mode	Standard Mode	Cloud Optimized Mode
CPU cores	32	8	4
RAM	64 GB	32 GB	32 GB
RAM with Enhanced Data Mover support	72 GB	40 GB	40 GB
Storage capacity	Minimum of 44 TB free space on metadata volume or Minimum of 18 TiB free space on metadata volume when cloud support is not enabled during install.	Minimum of 18 TB free space on metadata volume or Minimum of 8 TiB free space on metadata volume when cloud support is not enabled during install.	Minimum of 4 TB free space on metadata volume or Minimum of 1.8 TiB free space on metadata volume when cloud support is not enabled during install.
Additional storage requirements	Storage back-end should support: • 450 IOPS for metadata volume sequential writes • 450 IOPS for metadata volume random writes	Storage back-end should support: • 450 IOPS for metadata volume sequential writes • 450 IOPS for metadata volume random writes	Storage back-end should support: • 450 IOPS for metadata volume sequential writes • 450 IOPS for metadata volume random writes

Networking requirements

The following network configurations need to be made in order to successfully install and run QoreStor.

NOTE: If you install QoreStor with the **-f** option, or answer **yes** to the prompt regarding firewall changes, the QoreStor installer will ensure these ports are open.

Port configuration

The ports below need to be available for the QoreStor service:

Component/Function	Ports required
UI	• 5233
OST / RDA[1]	• 9920 • 10011 • 11000
NFS[1]	• 111 • 2049
Replication	• 9911 • 9915 • 9916
CIFS[1]	• 138 • 139 • 445
Object (S3)	• 9001 to 9005
NDMP	• 10000 • 43000-43040
RDA-NDMP	• 12000-12127
iSCSI	• 3260
Secure Connect[2]	• 9443
Veeam EDM	• 6160 • 6162

[1]: When using Rapid NFS or Rapid CIFS, the ports for both RDA and NFS or RDA and CIFS respectively are required. If Secure Connect is used with Rapid CIFS, then the Secure Connect port is also required.

[2]: If Secure Connect is used for all RDA and OST clients, then only the Secure Connect port is needed for RDA and OST

Verify connectivity

The usage of the QoreStor repository requires stable TCP/IP connectivity between the backup application server and the QoreStor repository server.

Supported installation platforms

QoreStor is supported on the following platforms:

Table 7: Operating systems supported for installation

Operating System	Bit level
AlmaLinux 8.8 - 8.10, 9.2 - 9.7,10.0 - 10.1	64-bit
RHEL 8.8 - 8.10, 9.2 - 9.7,10.0 - 10.1	64-bit
Oracle[2] Linux 8.8 - 8.10, 9.2 - 9.7,10.0 - 10.1	64-bit
Rocky Linux 8.8 - 8.10, 9.2 - 9.7,10.0 - 10.1	64-bit

[2] With Oracle Linux, the Red Hat Compatible Kernel (RHCK) must be used. The Oracle Unbreakable Enterprise Kernel is not supported.

NOTE: As of version 7.5.0, QoreStor deprecated support for all 7.x versions of RHEL and Oracle Linux, and RHEL//Oracle Linux/AlmaLinux/Rocky Linux version 8.0-8.7 and all versions of CentOS. if you currently use a deprecated 7.x version, for best performance and product support, Quest reccomends migrating to RHEL or Oracle Linux 8.10. If you use a deprecated 8.x version of RHEL or Oracle Linux, Quest recommends upgrading to version 8.10. If you use an 8.x version of CentOS, Quest recommends migrating to a supported 8.x platform.

NOTE: QoreStor does not support CentOS Linux or CentOS Stream. Instead of using CentOS Linux or CentOS Stream, Quest recommends that you migrate from CentOS to AlmaLinux, Rocky Linux, or Oracle Linux 8.10 or later.

NOTE: Only RHEL, Oracle Linux, AlmaLinux, or Rocky Linux[1] versions use the following kernels which support:

- Linux Version 8.x
  - 4.18.0-477
  - 4.18.0-513
  - 4.18.0-553
- Linux Version 9.x
  - 5.14.0-284
  - 5.14.0-362
  - 5.14.0-427
  - 5.14.0-503
  - 5.14.0-570
  - 5.14.0-611
- Linux Version 10.x
  - 6.12.0-55
  - 6.12.0-124

IMPORTANT: The above operating systems must be installed in Server mode (without GUI components). Using the Linux GUI will result in poor QoreStor performance.

Supported file systems

Only the file system listed below is supported for the QoreStor server.

- XFS

Supported file system protocols

QoreStor supports the following file system protocols. The Rapid Data Access (RDA) protocols below provide a logical disk interface that can be used with network storage devices to store data and support data storage operation.

- RDA with NetVault
- RDA with vRanger
- RDA with BridgeHead
- OpenStorage Technology (OST)
- Common Internet File System (CIFS)
- Network File System (NFS)
- Rapid CIFS (RCIFS)
- Rapid NFS (RNFS)
- VTL [1]
    - iSCSI
    - NDMP

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VTL is not supported when QoreStor is installed in Object Direct mode.

Other supported protocols

QoreStor supports the following file additional protocols:

- Object (S3 Compatible)
- Veeam(tm) EDM

Supported VTL replication configurations

When configuring replication for VTL containers from DR Series appliances to QoreStor instances, the following configurations are supported:

Table 8: Supported VTL OEM configurations for replication

Source (DR Series)	Target (QoreStor)
Dell OEM type	Quest OEM type
Quest OEM type	Quest OEM type

NOTE: VTL replication between QoreStor running on OS release 9.x is not supported with QoreStor running on OS release 8.x or DR Series systems.

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Supported virtual environments

This section lists the supported virtual environments for the QoreStor virtual machine. The following details applies to last released virtual machine images.

Supported virtual platforms

Table 9: Supported virtualization platforms

Platform	Versions
VMware	• ESXi 7.0 or later
Microsoft Hyper-V	• Hyper-V Server 2016 • Hyper-V Server 2019 • Hyper-V Server 2022 • Hyper-V Server 2025

QoreStor VM Specifications

The QoreStor virtual machine templates are available in three configurations as described below:

Table 10: QoreStor VM Specifications - Local Storage

	Tier 1	Tier 2	Tier 3
QoreStor Version	7.5.0	7.5.0	7.5.0
CPU	4	8	32
RAM	40	56	72
OS Disk	64 GB (Thick provisioned)	64 GB (Thick provisioned)	64 GB (Thick provisioned)
Metadata disk	1 TiB	3 TiB	7 TiB
Data Disk	2 TiB expandable up to 40 TiB	5.1 TiB (3 individual disks of 1.7 TiB each) expandable up to 150 TiB.	10.2 TiB (6 individual disks of 1.7 TiB each) expandable up to 360 TiB.
QoreStor Mode	Based on Cloud-	Based on Standard installation	Based on Enterprise installation

(Dictionary type)	optimized installation		
VM OS	Rocky Linux 9.5	Rocky Linux 9.5	Rocky Linux 9.5
NIC	1	1	1
VMware hardware version	17	17	17

Table 11: QoreStor VM Specifications - Object Direct installations

	Tier 1	**Tier 2**	**Tier 3**
QoreStor Version	7.5.0	7.5.0	7.5.0
CPU	4	8	32
RAM	40	56	72
OS Disk	64 GB (Thick provisioned)	64 GB (Thick provisioned)	64 GB (Thick provisioned)
Metadata disk	4 TiB (2 individual disks of 2 TiB each)	18 TiB (3 individual disks of 6 TiB each)	44 TiB (4 individual disks of 11 TiB each)
QoreStor Mode (Dictionary type)	Based on Cloud-optimized installation	Based on Standard installation	Based on Enterprise installation
VM OS	Rocky Linux 9.5	Rocky Linux 9.5	Rocky Linux 9.4
NIC	1	1	1
VMware hardware version	17	17	17

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Supported Software

The applications listed in the sections below are supported for use with QoreStor

Supported browsers

This section lists the minimum supported web browsers for use with the QoreStor UI.

Table 12: Supported browsers

Software	Versions
Microsoft Edge	100 or later
Google Chrome	100 or later

Supported clients

This section details the operating systems supported for installation of the QoreStor clients.

NOTE: QoreStor does not support CentOS Stream. Instead of using CentOS Stream, Quest recommends that you migrate from CentOS 8.x to AlmaLinux or Rocky Linux.

Table 13: Supported QoreStor clients

Client type	Client installation platform

RDA[1]	• Linux
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 8
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 9
	  • AlmaLinu/Rocky Linux/OracleLinux/RHEL 10
	  • SLES 12
	  • SLES 15

Client type	Client installation platform

	• Unix
	  • Solaris 10
	  • Solaris 11
	  • AIX 7.1
	  • HPUX 11.31
	  • macOS10.15
	• Windows
	  • Windows Server 2016
	  • Windows Server 2019
	  • Windows Server 2022
	  • Windows Server 2025

OST[1]	• Linux
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 8
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 9
	  • AlmaLinu/Rocky Linux/OracleLinux/RHEL 10
	  • SLES 12
	  • SLES 15
	• Windows
	  • Windows Server 2016
	  • Windows Server 2019
	  • Windows Server 2022
	  • Windows Server 2025

Rapid CIFS	• Windows
	  • Windows Server 2016
	  • Windows Server 2019
	  • Windows Server 2022
	  • Windows Server 2025

Rapid NFS	• Linux
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 8
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 9
	  • AlmaLinux/Rocky Linux/OracleLinux/RHEL 10
	  • SLES 12
	  • SLES 15

Client type	Client installation platform

iSCSI	• Linux
	  • AlmaLinux/Rocky Linux/Oracle Linux/RHEL 8
	  • Oracle Linux/RHEL 9
	• Windows
	  • Windows Server 2016
	  • Windows Server 2019
	  • Windows Server 2022

NDMP	• Dell FluidFS
	  • v3
	  • v4
	  • Windows Server 2016
	• NetApp
	  • ONTAP 8.x 7-Mode
	  • ONTAP 8.x C-Mode
	  • ONTAP 9.x C-Mode
	• EMC
	  • VNX OE 7.x and 8.0.x
	  • Isilon OneFS 7.0.x
	  • Isilon OneFS 8.0.x
	• SUN NAS
	  • 2011

[1]To enable secure WAN reconnection functionality, the Secure Connect client must be newer than version 4.1.0.265 and the QoreStorserver version must be newer than 5.1.0.xxx.

[2]SMB 1.0/CIFS File Sharing Support may need to be installed on Server 2019 depending on your QoreStor version.

Supported client plug-ins

This section lists the client plug-in versions supported by QoreStor.

Table 14: Supported client plug-in versions (without Secure Connect)

Client Plug-in	Version(s)
RDA	4.0.3049.0 or greater
OST	4.0.3049.0 or greater

Rapid NFS	4.0.3049.0 or greater
Rapid CIFS	4.0.3101.1 or greater

Table 15: Supported client plug-in versions (with Secure Connect)

Client Plug-in	Version(s)
RDA	4.1.0.265 or greater
OST	4.1.0.265 or greater
Rapid NFS	4.0.3310.0 or greater
Rapid CIFS	4.0.3233.1 or greater

Supported cloud providers

This section lists the cloud providers supported for each of the cloud-focused features in QoreStor.

Cloud Replication

- Microsoft Azure Blob Storage
- Amazon S3
- Wasabi S3
- IBM S3
- Google S3
- Scality ARTESCA[1]
- S3 Compatible Storage Providers
- Backblaze S3

[1] Qualified versions of ARTESCA are **2.1.2** and **4.0.4**. While later minor releases are expected to be compatible, only these specific versions have undergone formal validation.

Archive Tier

- Amazon S3 Glacier
- Amazon S3 Glacier Deep Archive

Object Direct Installations

- **Cloud Deployments**
  - Microsoft Azure Blob with Azure VM from same region
  - Amazon S3 with Amazon EC2 instance from same region
- **On-Premises**
  - S3 Compatible Storage (such as MinIO) with on-Prem Qorestor Server

Supported backup software

This section lists the supported backup applications and protocols for QoreStor.

Table 16: Supported backup applications and protocols

Data Management Application (DMA)	RDA	OST	NFS	RDNFS	CIFS	RDCIFS	Object (S3 Compatible)	NDMP VTL	iSCSI VTL	EDM
NetVault[1]										
12.x	✓							✓	✓	
13.0	✓							✓	✓	
13.0.x	✓							✓	✓	
13.1	✓							✓	✓	
13.1.x	✓						✓	✓	✓	
13.2.x	✓						✓	✓	✓	
13.3.x	✓						✓	✓	✓	
14.0.x	✓						✓	✓	✓	
vRanger[1]										
7.6.5	✓				✓	✓				
7.7	✓				✓	✓				
7.8	✓				✓	✓				
7.8.x	✓				✓	✓				
Backup Exec										
16		✓			✓	✓			✓	
20		✓			✓	✓	✓		✓	
21		✓			✓	✓	✓		✓	

Data Management Application (DMA)	RDA	OST	NFS	RDNFS	CIFS	RDCIFS	Object (S3 Compatible)	NDMP VTL	iSCSI VTL	EDM
24		✓			✓	✓	✓		✓	
NetBackup										
8.0		✓	✓	✓	✓	✓		✓	✓	
8.1		✓	✓	✓	✓	✓		✓	✓	
8.1.1		✓	✓	✓	✓	✓		✓	✓	
8.1.2		✓	✓	✓	✓	✓		✓	✓	
8.2		✓ [2]	✓	✓	✓	✓		✓	✓	
9.0		✓ [2]	✓	✓	✓	✓		✓	✓	
9.1		✓ [2]	✓	✓	✓	✓		✓	✓	
10.5		✓	✓	✓	✓	✓		✓	✓	
CommVault										
10			✓	✓	✓	✓		✓	✓	
11			✓	✓	✓	✓	✓	✓	✓	
DELL EMC NetWorker										
9.1			✓	✓	✓	✓		✓	✓	
Microsoft SQL Server Backup										
2016					✓	✓				
Oracle RMAN										
Oracle Linux 12c			✓	✓						
Oracle Linux 19c			✓	✓						
Oracle 12c for Windows					✓	✓				
Oracle Windows 19c					✓	✓				
CA Arcserve										
v16			✓		✓					
v17.5			✓		✓					
VEEAM										
9.0			✓		✓	✓				

Data Management Application (DMA)	RDA	OST	NFS	RDNFS	CIFS	RDCIFS	Object (S3 Compatible)	NDMP VTL	iSCSI VTL	EDM
9.5			✓		✓	✓	✓		✓	
10			✓		✓	✓	✓		✓	
11			✓		✓	✓	✓		✓	
12			✓		✓	✓	✓		✓	✓
13			✓		✓	✓	✓		✓	✓
HP Data Protector										
9			✓		✓					
10.04			✓		✓					
BridgeHead										
x3.2			✓		✓					
RAPid 20B	✓		✓		✓					
RAPid 21A	✓		✓		✓					
RAPid 22A	✓		✓		✓					
RAPid 23A	✓		✓		✓					
RAPid 24A	✓		✓		✓					
Atempo Time Navigator (TiNa)										
4.3			✓		✓					
4.4			✓		✓					
4.5			✓		✓					
OS-provided or third-party utilities										
UNIX dump			✓	✓						

[1]Refer to "NetVault and vRanger Feature Compatibility" in the *QoreStor Interoperability Guide* for more detailed information on NetVault and vRanger Support

[2]AIR support for NetBackup 8.2 requires an update to the mapping file.

Recycle Bin feature compatibility

This section lists the backup applications and protocols that support the Recycle Bin feature in QoreStor.

Table 17: Backup applications and protocols compatible with Recycle Bin

Data Management Application (DMA)	RDA	OST	NFS	RDNFS	CIFS	RDCIFS	EDM
NetBackup		✓	✓	✓	✓	✓	
Backup Exec					✓	✓	
vRanger	✓						
NetVault	✓						
VEEAM			✓	✓	✓	✓	✓

NOTE: The QoreStor team qualified the Recycle Bin feature with the following versions of the compatible DMAs:

- NetBackup 8.2
- BackupExec 21
- vRanger 7.8
- NetVault 13.x, 14.0
- Veeam 11, 12, 12.3, 13

Cloud Reader mode compatibility

This section lists the backup applications and protocols that support Cloud Reader mode in QoreStor.

Table 18: Backup applications and protocols compatible with Cloud Reader mode

Data Management Application (DMA)	RDA	Object
NetVault	✓	
BridgeHead	✓	
Veeam		✓

NOTE: The QoreStor team qualified Cloud Reader mode with the following versions of the compatible DMAs:

- NetVault 13.x, 14.0
- BridgeHead RAPid 21A, 22A, 23A, 24A
- Veeam 12, 12.3, 13

Support for RDA immutability

This section lists the backup applications and protocols that support immutability for RDA backups in QoreStor.

Table 19: Backup applications and versions compatible with RDA immutability

Data Management Application (DMA)	Versions
NetVault	13.0.3, 13.1, 13.2,13.3,14.0
BridgeHead	RAPid 21A, 22A, 23A, 24A

NetVault and vRanger Feature Compatibility

The table below provides more detailed information on NetVault and vRanger feature compatibility with QoreStor.

Table 20: NetVault feature compatibility

Feature	NVBU 12.4	NV 13.0.x	NV 13.1	NV 13.2	NV 13.3	NV 14.0
Integrated RDA plug-in version	4.1.0.266	4.1.0.328	4.1.0.759	4.1.0.1005	4.1.0.1102	4.1.0.1525[3]
Compatible RDA plug-in versions	4.1	4.1	4.1	4.1	4.1	4.1
Secure Connect WAN restart-ability[1]	Yes	Yes	Yes	Yes	Yes	Yes
Create storage groups and containers from DMA	Yes	Yes	Yes	Yes	Yes	Yes
OpDup DR to QoreStor[2]	Yes	Yes	Yes	Yes	Yes	Yes
OpDup QoreStor to DR	Yes	Yes	Yes	Yes	Yes	Yes
Continuous data protection (CDP)	No	No	Yes	Yes	Yes	Yes

NOTE: [3]SLES (SUSE Linux Enterprise Server) 12 does not support NetVault 14.0

Table 21: vRanger feature compatibility

Feature	vRanger 7.6.5	vRanger 7.7	vRanger 7.8
Integrated RDA plug-in version	4.03	4.0.3202.1	4.1.0.950
Secure Connect WAN restart-ability[1]	No	No	No
Create storage groups and containers from DMA	No	No	No
OpDup DR to QoreStor[2]	Yes	Yes	Yes
OpDup QoreStor to DR	Yes	Yes (w/ DRv4.0.3203.1b)	Yes (w/ DRv4.0.3203.1b)

[1]To enable secure WAN reconnection functionality, the Secure Connect client must be version 4.1.0.265 and the QoreStor server version must be 5.1.0.xxx.

[2]Requires DR OS 4.0 or later.

QoreStor supported system limits

This section lists the supported configuration limits for the QoreStor system.

Table 22: Supported configuration limits

Feature	Cloud-optimized	Standard	Enterprise	Enterprise Plus	Enterprise Plus with MSP mode
Maximum containers	32	32	64	64	128
Maximum Object containers	1	2	5	5	5
Maximum EDM containers	2	32	64	64	128
Maximum EDM connections	2	32	64	64	128
Maximum VTL containers	1	2	4	4	4
Maximum storage groups	5	5	5	5	32
Maximum streams	32	64	128	128	128
Maximum connections - CIFS/ Rapid CIFS	32	32	128	128	128
Maximum connections - NFS/ Rapid NFS	32	32	128	128	128
Maximum connections - RDA	32	128	256	256	256
Maximum connections - OST	32	128	256	256	256
Maximum replications	32	32	64	64	64
Maximum Cloud Tiers	2	2	2	2	32
Maximum Archive Tiers	0	1	1	1	1

NOTE: The maximum allowed concurrent Object container (S3) connections is 100 per Object container.

Table 23: Supported configuration limits - Object Direct installations

Feature	Cloud-optimized	Standard	Enterprise
Maximum containers	32	32	64
Maximum storage groups	5	5	5
Maximum Object containers	1	2	5
Maximum EDM containers	2	32	64
Maximum EDM connections	2	32	64
Maximum streams	32	64	128

Maximum connections - CIFS/ Rapid CIFS	32	32	128
Maximum connections - NFS/ Rapid NFS	32	32	128
Maximum connections - RDA	32	128	256
Maximum connections - OST	32	128	256
Maximum replications	32	32	64
Maximum Cloud Tiers	2	2	2
Maximum Archive Tiers	0	1	1

NOTE: The maximum allowed concurrent Object container (S3) connections is 100 per Object container.

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