

Quest® QoreStor™ 5.0

Release Notes

September 2018 - Revision A for build 5.0.0.171

These release notes are intended to supplement the QoreStor documentation to provide last minute information available for the latest release of the QoreStor software. These release notes contain details about the latest updates and resolutions, known issues, resolutions, and other information.

NOTE: Please check for the latest versions of the QoreStor documentation available at support.quest.com/gorestor.

About this release

QoreStor is a software-defined secondary storage platform based on Quest's proven DR Series Appliance's resilient deduplication and replication technologies. With QoreStor, you can break free of backup appliances and accelerate backup performance, reduce storage requirements and costs, and replicate safer and faster to the cloud for data archiving, disaster recovery and business continuity.

QoreStor supports all of the major backup software applications in use today and can lower your backup storage costs to as little as \$.16/GB while reducing your total cost of ownership. (For a complete list of supported backup software, see Supported backup applications). QoreStor achieves these results using patented Rapid technology as well as built-in, variable block-based deduplication and compression.

QoreStor helps you to:

- · Reduce on-premises and cloud storage costs with industry-leading deduplication and compression.
- Accelerate backup completion with protocol accelerators and dedupe.
- · Shrink replication time by transmitting only changed data.
- Improve data security and comply with FIPS 140-2.
- · Maximize return on investment for existing data protection technologies.
- · Lower total cost of ownership through all-inclusive licensing.

QoreStor 5.0.0.171 is a hotfix release of QoreStor with defect resolutions and minor enhancements. See New features for more information on enhancements. See Resolved issues for information on issues resolved in this version.

New features

New features in QoreStor 5.0:

- · Support for CIFS and NFS protocols
- · Support for RapidCIFS and Rapid NFS clients
- Remote monitoring and management through the GlobalView Cloud portal
- · Container replication for CIFS and NFS containers

Enhancements

- · Increased support for physical storage up to 360TB
- Increased number of supported RDA connections to 512, including 128 active streams.

QoreStor build 5.0.0.171 includes the additional enhancements below:

- Support for term-limited licenses was added. QoreStor will enter Manual Intervention mode when the license term has expired.
- Implemented RDA migration tool to replicate savesets from DR Series System appliances to QoreStor.
- · Implemented additional installation checks to prevent using unsupported configurations.

Resolved issues

For convenience, the tables below lists the issues resolved in the initial 5.0.0 release as well as the subsequent release of build 5.0.0.171.

Table 1: Issues resolved in build 5.0.0.171

Resolved Issue	Issue ID
QS-2221	Corrected issue where replicated copy can be deleted while replication is currently ongoing.
QS-2240	fixed out-of-memory conditions when QoreStor is installed in Cloud Optimized mode.
QS-2243	Corrected a typographical error during the installation script.
QS-2297 QS-2305	Removed ability to delete the CIFS role from the QoreStor Administrator user account.

Resolved Issue	Issue ID
QS-2380	Support for term-limited licenses was added. The QoreStor system will enter Manual Intervention mode when the license term expires.
QS-2373 QS-2375 QS-2407 QS-2429 QS-2432	Implemented additional installation checks to prevent using unsupported configurations.
QS-2442	Resolved issue with messages in the QoreStor Events page are getting trimmed.
QS-2453	Implemented RDA migration tool to replicate savesets from DR Series System appliances to QoreStor.

Table 2: Resolved issues in 5.0.0.156

Resolved Issue	Issue ID
QS-1456	When a user is created with the RDA role, the secure connect role is being added by default. You may remove this role through the CLI or GUI after the user is created.
QS-1480	When a storage group and container used by NetVault Backup backup jobs is deleted, the ocafsd.log file fills with the error message " ERROR: RDA SRVR RDA_GET_SGID".
QS-1495	The maintenancediags command does not have the delete option enabled.
QS-1537	While storage group information is loading in the QoreStor GUI, the page incorrectly displays the message "Storage groups not available". This behavior may be observed in other GUI screens if the GUI response is delayed.
QS-1571 QS-1572	The capacity figures in backup applications do not match the capacity figures in QoreStor.
QS-1619	When using Secure Connect to peform a backup over the WAN, the backup may fail very intermittently with "Invalid header" errors on the QoreStor server side. The errors occur when there are network issues, and Secure Connect reconnects and retransmits the packets.
QS-1657	The help output for the user command does not list the secure_connect role.
QS-1666	Corrected the method used to display RDA client version.
QS-1695	The Number of OST/RDA Connections graph is not showing OST connections.
QS-1746	When using NetVault Backup with the Secure Connect client, authentication processes result in frequent instances of the Event message "Successfully authenticated User backup_user."

Resolved Issue	Issue ID
QS-1826	With a large number of events, the Alerts and Events dialog loads very slowly on Internet Explorer and Edge.
QS-1643	Secure Connect log files have been relocated to /var/log/oca.
QS-2221	Corrected issue where replicated copy can be deleted while replication is currently ongoing.
QS-2240	fixed out-of-memory conditions when QoreStor is installed in Cloud Optimized mode.
QS-2243	Corrected a typographical error during the installation script.
QS-2297 QS-2305	Removed ability to delete the CIFS role from the QoreStor Administrator user account.
QS-2380	Support for term-limited licenses was added. The QoreStor system will enter Manual Intervention mode when the license term expires.
QS-2373 QS-2375 QS-2407 QS-2429 QS-2432	Implemented additional installation checks to prevent using unsupported configurations.
QS-2442	Resolved issue with messages in the QoreStor Events page are getting trimmed.
QS-2453	Implemented RDA migration tool to replicate savesets from DR Series System appliances to QoreStor.

Known issues

The issues below are known to exist in this release.

Table 3: Known issues in this release

ID Issue			
QS-257	After deleting a container and storage group, immediately creating a new container with the same name may fail.		
	Workaround : This failure occurs because the old container is still in a delete_pending stage. To proceed with creating a new container, wait until the old container has been completely deleted via the QoreStor Cleaner run.		
QS-437	When using multiple NetVault Backup Servers to access the same QoreStor		
QS-438	Server, use storage group, container, and user names unique to each NetVault		
QS-612	Backup server to avoid accidental deletions.		

ID	Issue
QS-767	Entries older than three months are purged from the QoreStor UI database.
QS-1224	In rare cases, running the maintenance filesystemcheck command, a warning is returned that states "Warning: program compiled against libxml 209 using older 207". This can be safely ignored.
QS-1343	The Byte Ingested value for a container does not get reduced after space reclamation. This is by design as Bytes Ingested is a cumulative value
QS-1420	When executing the QoreStor uninstallation script, the script will report and continue if illegal options are entered.
QS-1446	If the QoreStor partition is not set to automount, and the QoreStor server is rebooted, the system appears to be operational but shows 0 physical capacity.
QS-1588	When running Optimized Duplication jobs in Backup Exec, the container quota is not enforced as it is for backup jobs.
QS-1595	In the QoreStor GUI, the Physical Capacity value shown in the system information pane refers to the licensed capacity, not the true physical capacity of the QoreStor server. To view the physical capacity, use the QoreStor CLI commands.
QS-1670	For Linux clients, the full version number of RDA plug-ins is not displayed.
QS-1704	When using Secure Connect with NetVault Backup, the NetVault Backup and QoreStor servers must be on the same local network, connecting with a remote Secure Connect client over a WAN link. Using Secure Connect for communication withing a local network is not supported in this release.
QS-1810	When viewing graphs in the QoreStor UI, if two lines overlap, one line will be hidden by the other. Workaround: QoreStor graph values can be toggled on or off by clicking the colored circle next to the value name. Toggle the visable overlapping line to see the line that is hidden.
QS-1823	In some situations, the deduplication savings for a storage group shows as 100% before a backup has occurred. Once a backup has occurred, the deduplication savings will be displayed accurately.
QS-1980	When deleting a storage group, the Storage Group page will display timestamp data where the storage group entry used to appear. This occurs because the storage group is still in a delete_pending stage. Once the delete is completed and the UI refreshes, the timestamp will not longer appear.
QS-2039	If a QoreStor upgrade is performed while the Red Hat Automatic Bug Reporting Tool (ABRT) service is running, the default core file location is changed to /var/cores. This can cause the root filesystem to become full. Workaround:

ID	Issue		
	Disable the ABRT service before performing the QoreStor upgrade.		
QS-2236	When installing QoreStor, if a required port is unavailable the installation will continue and be considered successful, yet QoreStor will start in Maintenance Mode. Workaround: Ensure that all required ports are available to QoreStor.		
QS-2242	When installing QoreStor, the filesystem selected for the QoreStor repository should not contain data from other application or users. QoreStor must have exclusive access to the repository filesystem.		
QS-2255	When configuring replication through the QoreStor CLI, it is possible to configure the same QoreStor system as both the source and target. This is not a supported configuration.		
QS-2258	The Rapid NFS plug-in does not support installation on SuSe 10		

Product Licensing

QoreStor offers a backend capacity licensing model to allow for simple integration with other Quest Data Protection products.

- Standalone license QoreStor is licensed by the amount of backend capacity required. Standalone licenses are available either as **perpetual** licenses (with no expiration), or **term** licenses, which expire after a specified period of time.
 - NOTE: Term licenses are intended for specific customer use cases, i.e. customers that need to license according to yearly billing cycles. A perpetual license is appropriate in most cases.

QoreStor licenses are additive, meaning that if you purchase a 5TB license now, and a 10TB license in the future, you will have 15TB total capacity.

NOTE: Licenses for QoreStor are specific to the QoreStor server. When installing a license, the System ID for your QoreStor server is required. You can obtain the System ID with the command system --show | grep "System ID"

Evaluating QoreStor

QoreStor offers two methods for evaluation:

- **Default installation** If no license is installed, QoreStor defaults to a no-cost, 1TB capacity installation supported by the QoreStor Community. This option requires no license and does not expire.
 - If a license is applied to a server running in this mode, the free 1TB is **not** added to the purchased license capacity.
 - When installed in Demo mode, the capacity is limited to 100GB.

- Full capacity trial available on the Quest Software Trial site, which provides a 30-day evaluation
 license for up to 360TB and access to Quest Support. After the evaluation period has expired, the
 QoreStor server will operate in Manual Intervention mode until a license is applied. To use QoreStor
 beyond that time frame, you will need to purchase a standalone license.
 - If installed in Demo mode, the capacity is limited to 100GB
 - If a longer trial period is required, please contact Quest Sales.

If you have purchased a standalone license, you can install it using the **system --license** command, as described in the *QoreStor Command Line Reference Guide*.

NOTE: When ordering a license, the System ID for your QoreStor server is required. You can obtain the System ID with the command system --show | grep "System ID"

Supported software and hardware

For a complete list of the supported hardware and software for QoreStor, see the *QoreStor Interoperability Guide*. You can download this guide by visiting: http://support.quest.com/qorestor and selecting your specific QoreStor version, which opens the product support page to view product documentation for your system.

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 4: QoreStor documentation

Document	Description
QoreStor Installation Guide	Provides information on installation and operation requirements, supported platforms as well as 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.
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 5: Quest NetVault Backup documentation

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

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

Table 6: 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 ν Ranger.		

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

Table 7: 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 NetBackup product documentation.

About us

We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation™.

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Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece — you — to the community, to the new Quest.

Contacting Quest

For sales or other inquiries, visit www.quest.com/contact.

Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at https://support.quest.com.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- · Submit and manage a Service Request
- · View Knowledge Base articles
- Sign up for product notifications
- · Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- · Chat with support engineers online
- View services to assist you with your product

Third party components

This product contains the following third-party components. For third-party license information, and copies of third party licenses not reproduced below, go to https://www.quest.com/legal/license-agreements.aspx.

Source code for components marked with an asterisk (*) is available at https://opensource.quest.com/.

Component	License	Notes
angular2- clipboard 11	MIT 1.0	Copyright (c) 2016 Sam Lin A copy of the license can be found at The MIT License (MIT)
angular2-jwt 0.2.3	MIT 1.0	Copyright (c) 2017 Auth0 Inc. A copy of the license can be found at The MIT License (MIT)
Angular-jwt 1.0	MIT 1.0	Copyright (c) 2017 Auth0 Inc. A copy of the license can be found at The MIT License (MIT)
Boost 1.63	Boost 1.0	Copyright (c) 2001-2010 Joel de Guzman Copyright (c) 2010 Eric Niebler Copyright (c) 2015 John Fletcher A copy of the license can be found at The MIT License (MIT)
bzip2	BSD Simple	A copy of the license can be found at The MIT License (MIT)
core-js 2.5.3	MIT	Copyright (c) 2014-2016 Denis Pushkarev A copy of the license can be found at The MIT License (MIT)
cURL 7.57.0	MIT	Copyright (c) 1996 - 2016, Daniel Stenberg, <daniel@haxx.se>, and many contributors, see the THANKS file. A copy of the license can be found at The MIT License (MIT)</daniel@haxx.se>
D3 3	BSD 3- Clause License	Copyright (c) 2013, Michael Bostock All rights reserved. A copy of the license can be found at The MIT License (MIT)
dmidecode 3.1_1*	GPL 2	* Copyright (C) 2000-2002 Alan Cox <alan@redhat.com> * Copyright (C) 2002-2010 Jean Delvare <khali@linux-fr.org> A copy of the license can be found below at GPL (GNU General Public License) 2.0 This component is not actually used by QoreStor, but is provided with our product for your convenience.</khali@linux-fr.org></alan@redhat.com>
fio 3.3*	GPL 2	A copy of the license can be found below at GPL (GNU General Public License) 2.0 This component is not actually used by QoreStor, but is provided with our product for your convenience.

Component	License	Notes
Font Awesome 4.7.0	MIT	A copy of the license can be found at The MIT License (MIT)
Gin 1.2	MIT 1.0	Copyright (c) 2014 Manuel Martínez-Almeida A copy of the license can be found at The MIT License (MIT)
go-prettyjson 1.0	MIT 1.0	Copyright (c) 2018 Kazuhito Hokamura A copy of the license can be found at The MIT License (MIT)
Gorilla RPC 2	BSD 3- Clause License	Copyright 2002-2008 Xiph.org Foundation Copyright 2002-2008 Jean-Marc Valin Copyright 2005-2007 Analog Devices Inc. Copyright 2005-2008 Commonwealth Scientific and Industrial Research Organisation (CSIRO) Copyright 1993, 2002, 2006 David Rowe Copyright 2003 EpicGames Copyright 1992-1994 Jutta Degener, Carsten Bormann A copy of the license can be found at The MIT License (MIT)
go-sqlite3 1.6	MIT 1.0	Copyright (c) 2014 Yasuhiro Matsumoto A copy of the license can be found at The MIT License (MIT)
iostat 11.6.3*	GPL 2	(C) 1998-2017 by Sebastien GODARD (sysstat <at> orange.fr) A copy of the license can be found below at GPL (GNU General Public License) 2.0 This component is not actually used by QoreStor, but is provided with our product for your convenience.</at>
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jwt-go 3.2	MIT 1.0	Copyright (c) 2012 Dave Grijalva A copy of the license can be found at The MIT License (MIT)
libidn 1.31*	LGPL 2.1	Copyright (C) 1991, 1999 Free Software Foundation, Inc. A copy of the license can be found below at GNU (Lesser General Public License) 2.1
libxml2 2.9.3	MIT	Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved. A copy of the license can be found at The MIT License (MIT)
logrus 1.0.5	MIT 1.0	Copyright (c) 2014 Simon Eskildsen A copy of the license can be found at The MIT License (MIT)
Mux 1.6	BSD 3- Clause	Copyright (c) 2012 Rodrigo Moraes. All rights reserved A copy of the license can be found at The MIT License (MIT)

Component	License	Notes
net-tools-1.60	GPL 2	Copyright 1995-1996 Bernd Eckenfels, Germany A copy of the license can be found below at GPL (GNU General Public License) 2.0
ng2- dropdown .0.0.3	MIT 1.0	Copyright (c) 2015-2017 Angular ng-bootstrap team A copy of the license can be found at The MIT License (MIT)
ng2-nvd3 2.0	MIT 1.0	Copyright (c) 2016 Konstantin Skipor A copy of the license can be found at The MIT License (MIT)
ng2-truncate 3.17	MIT 1.0	A copy of the license can be found at The MIT License (MIT)
ngx-modal 0.0.3	MIT 1.0	A copy of the license can be found at The MIT License (MIT)
OpenSSL 0.9.8e OpenSSL 1.0.1g OpenSSL 1.1.0e	OpenSSL License	This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/) A copy of the license can be found below at Open SSL License
POCO C++ Libraries 1.9	Boost 1.0	Copyright (c) 2012, Applied Informatics Software Engineering GmbH. and Contributors. A copy of the license can be found at The MIT License (MIT)
Pretty 1.0	MIT 1.0	Copyright 2012 Keith Rarick A copy of the license can be found at The MIT License (MIT)
rxjs 5.5.6	Apache 2.0	Copyright (c) Microsoft. All rights reserved. A copy of the license can be found below at Apache 2.0
Samba 3.6.25*	GPL 3	Copyright (C) 2007 Free Software Foundation, Inc. http://fsf.org/. A copy of the license can be found below at GPL (GNU General Public License) 2.0 This component is not actually used by QoreStor, but is provided with our product for your convenience.
sysstat 10.1.5	GPL 2	(C) 1999-2018 Sebastien GODARD (sysstat <at> orange.fr) A copy of the license can be found below at GPL (GNU General Public License) 2.0</at>
TS-Helpers 1.1.2	MIT 1.0	Copyright (c) 2016 ngParty A copy of the license can be found at The MIT License (MIT)
UUID .2	BSD 3- Clause License	Copyright 2002-2008 Xiph.org Foundation Copyright 2002-2008 Jean-Marc Valin

Component	License	Notes
		Copyright 2005-2007 Analog Devices Inc.
		Copyright 2005-2008 Commonwealth Scientific and Industrial Research Organisation (CSIRO)
		Copyright 1993, 2002, 2006 David Rowe
		Copyright 2003 EpicGames
		Copyright 1992-1994 Jutta Degener, Carsten Bormann
		A copy of the license can be found at The MIT License (MIT)
zone.js 0.8.x	MIT	Copyright (c) 2016 Google, Inc.

GPL (GNU General Public License) 2.0

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Version 2, June 1991

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