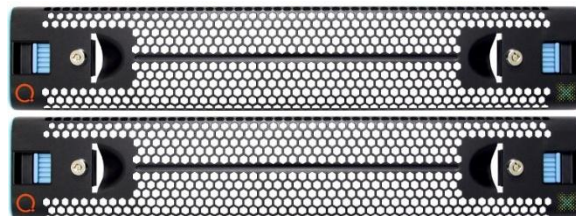




**EXFS-series**  
for Quest software

**Quest<sup>®</sup>**



## EXFS Vault

A Cyber Recovery solution is crucial in today's digital world because cybercriminals are constantly looking for ways to steal or hold company critical data hostage for ransom. A single security weakness can have disastrous consequences for a business.

Implementing a secure Cyber Recovery solution ensures that business-critical data is protected, allowing businesses to recover quickly in the event of a cyber-attack. This approach minimizes downtime and data loss. In short, Cyber Recovery is essential for ensuring a company's continuity and security.

EXFS Vault for Quest software provides the ultimate Cyber Recovery environment. It is specifically designed to keep your data safe and available under any circumstances.

The system is equipped with state-of-the-art security measures, including malware protection, intrusion prevention, Multi-Factor Authentication, Cloud Sandboxing (APT), Intelligent Anti-Virus, Botnet detection, and more. Additionally, segmentation and security zones make it virtually impossible to penetrate the system without proper authentication, security controls, and location tracking.

The dual air-gap architecture makes it impossible for cybercriminals to penetrate. Air-gaps are integrated by design both internally and externally, minimizing the chance of a successful attack. In the event of a cyber-attack, EXFS Vault enables quick and easy data recovery with minimal downtime and data loss. Virtual standbys of all business-critical workloads allow you to continue with your business even during a cyber-attack.

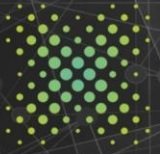
Management of EXFS Vault is performed via out-of-band secure VPN connections with strict access policies to prevent cybercriminals from accessing the system. Additionally, the system provides businesses with peace of mind, ensuring they can continue working after an attack, even if the production environment is fully encrypted.

## Corporate Data recovery made easy

The EXFS-series Backup and Recovery Dual and Quad Node appliances, powered by Quest NetVault combined with the best deduplication and compression software Quest QoreStor, offer you a smart way to protect data and applications in your growing environment, as well as the peace of mind that comes with knowing you can get back to business as usual in minutes, not hours or days.

The EXFS-series help safeguard the corporate data backup in complex IT environments for virtual as well as physical servers that power your business.





The EXFS-series are offered in Small, Medium and large editions. The Small edition offers 24TB to max. 160TB of storage capacity. The Medium edition allows you to grow up to 360TB allows you you to grow up to 512TB. The EXFS-series offer you turn-key, highly scalable data protection and recovery for mission-critical applications, coupled with 3/5 years support. In addition replacement options are available for part delivery by the next business day.

## Not all deduplication is created equal

Exponential data growth takes a toll on your storage budget. Up to now, data deduplication relied on hardware appliances or was tied to only one vendor's backup solution. With QoreStor, you get a pure software solution that you can run on virtually any server hardware and use with most backup solutions. It delivers content-aware variable-block deduplication with built-in compression and encryption that delivers unparalleled storage savings, up to 93%.

## Replicate directly to the cloud for long-term retention and DR

If slow and inconsistent WAN connections make it challenging to use the cloud for long-term retention and disaster recovery, QoreStor has you covered. It replicates only unique data to the Cloud, reducing the replication window by 10-15x and lowering network bandwidth requirements by 85%. You can also extend any QoreStor instance to cloud-native storage on AWS or Azure Blob Storage.

## Faster backups and immediate recovery to, and from, the cloud

Your stakeholders have no tolerance for system downtime due to backups. The QoreStor cloud recovery model addresses this unequivocally by extending its footprint into cloud-native storage where its intelligent recovery pulls data locally before pulling backup data stored in the cloud. Not only is recovery significantly faster, cloud egress costs are lower. QoreStor also accelerates data ingest by up to 20 terabytes per hour using protocol accelerators and client-side deduplication where only unique data chunks are sent over the LAN or WAN.

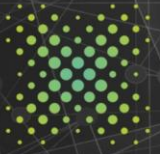
Another EXFS-series enhancement includes node interconnect, that offers the ability to connect the QoreStor node directly to the NetVault node to ensure the backup repository is not exposed to any production related server connection except for the ports allowed for backup purposes.

**20:1**   
REDUCTION IN  
STORAGE REQUIREMENTS

**20**  **TB/Hr**  
DATA INGEST  
SPEED

**10-15x**   
SMALLER  
REPLICATION WINDOWS





## Key Features



### Purpose build Hardware

Gain flexibility by using Excepta storage hardware, connect your own backup software and replicate to a cloud provider.



### Role-based user access

Assign access based on role for more granular control for larger organizations and MSPs.



### Direct-to-Cloud backup

Back up directly to the cloud over your WAN, but with LAN-like speeds.



### Direct-to-target backup

Back up directly to the target storage device, bypassing the media server.



### Best-in-class deduplication technology

Lower backup storage requirements by an average of 20:1.



### Remote replication for DR

Replicate only unique data to remote site, reducing the replication windows by 10 to 15 times.



### Secure Connect with protocol accelerators

Ensure backups complete, despite slow and unreliable WAN connections, and accelerate data ingest by up to 20TB/hr.



### Data security

Tighten data security with built-in encryption at rest, secure erase and FIPS 140-2 compliance.



### NetVault Backup Integration

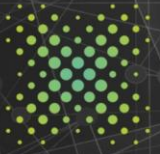
Accelerate backups and add replication, variable block deduplication, and direct to storage backup by using QoreStor with NetVault Backup.



### Data security

Tighten data security with built-in encryption at rest, secure erase and FIPS 140-2 compliance.





## Designed for business continuity

The EXFS-series, designed for business continuity, offer you the benefit of integrated, leading-edge technologies including Quest NetVault and QoreStor, including features like:

### NetVault

- **Physical and virtual support**  
Protect both physical and virtual servers (VMware, Hyper-V and Nutanix AHV) with a single solution and gain consistent, reliable, point-and-click backup and restore. By running the NetVault plug-ins on any available proxy, you can back up all virtual machines with a single unified view that scales to thousands of VM's.
- **Powerful catalog search**  
Conduct fast and granular searches for files and objects for both backup and restore. Fast-search capabilities provide access to metadata (name, mod date, type, etc.) for items backed up with NetVault. Save-sets with offline indexes can also be included in your search results.
- **Application protection**  
Ensure the protection and availability of all of your business-critical applications and data, including Exchange, SQL, SharePoint, Oracle, MySQL, DB2, PostgreSQL, SAP, SAP HANA, Sybase and Teradata. No scripting is required to run hot backup and recovery jobs.
- **Office365 protection**  
Back up and recover Exchange Online mailboxes, calendars, contacts and individual emails using Microsoft Graph API. Back up and recover OneDrive files and folders.
- **Active Directory (AD), Azure AD and LDAP support**  
Log into NetVault using your AD or LDAP single sign-on credentials. Role based access control regulates what operations administrators can perform (per the AD or LDAP privileges assigned). AD and LDAP also enable distributed install and upgrade capability for NetVault clients. This capability is a big plus in large environments with hundreds of clients that need upgrades or install.
- **Application-aware storage array snapshots**  
Perform significantly faster and easier backups, with recovery time objectives (RTOs) and recovery point objectives (RPOs) for even the most demanding business needs.
- **High-performance multistreaming**  
Save time and ease management by backing up multiple workloads, such as network drives, local drives and mount points, simultaneously. Break down large, single-volume jobs into multiple streams for increased performance.
- **Strong security**  
Meet regulatory requirements without sacrificing backup windows or deduplication performance with an encryption plug-in for CAST-128, AES-256 or CAST-256 algorithm support. Flexible job-level encryption lets you easily select which data to encrypt.

### Benefits:

- Lower total cost of ownership and simplified administration using a single solution to manage complex, hybrid data centers
- Significant storage cost savings with client-side deduplication and the ability to use lower cost storage
- More granular recovery points and faster recovery time through hardware snapshots for improved application availability
- Greater IT productivity with an intuitive, web-based management console
- Faster system recovery through bare-metal recovery
- Faster backup through high performance multistreaming
- Improved security and control of system administration through AD-based roles and privileges

### Extra functionality

#### Security

The Excerpta hardware uses multiple methods of detection to absorb known and unknown threats. Through the correlation and prioritization of the network, endpoint and event data threats, users can confidently respond to the most serious attacks before damage is done. Your backup solution is the last resort in a company. Total interference must be prevented using the latest generation protection software!

#### Multi Factor Authentication

The unique MFA solution not only helps you reduce the likelihood of network failures and data leaks due to loss or theft of credentials, but we deliver this important feature completely out of the cloud for easy set-up and management. We go beyond traditional 2-factor authentication (2FA) by looking at innovative ways to identify users to ensure the appliances are protected against intruders.



## QoreStor

- Cloud Tier**  
Move and recover data from cloud storage quickly and easily with this policy-driven, seamless cloud extension.
- Performance Tier**  
Recover instantly, without having to compromise on deduplication, with this high-speed storage group.
- Hardware- and software-agnostic platform**  
Employ any storage hardware, backup software, virtualization platform or cloud provider to reduce costs, simplify your IT environment and maximize your ROI.
- Next-generation storage dedupe engine**  
Lower your backup storage requirements by an average of 20:1, and take advantage of enterprise class variable-block deduplication.
- Built-in protocol accelerators with Secure Connect technology**  
Accelerate data ingest by up to 20 terabytes per hour to address your ever-shortening backup windows. Ensure complete backups, even over poor links that disconnect often.
- Remote replication for disaster recovery**  
Replicate only unique data to a remote site, reduce replication windows by 10 to 15 times, reduce network bandwidth requirements by 85 percent and shorten overall replication time.
- Back up to the cloud**  
Back up directly to the cloud over your WAN, but with LAN-like speeds through source-side deduplication where only the changes are transmitted. Achieve recovery point objectives (RPOs) that are typical of on-premises deployments, even over the WAN.
- Direct-to-target backup**  
Bypass the media server and back up directly to the target storage device.
- Data security**  
Meet demanding security requirements with built-in encryption at rest, secure erase and FIPS 140-2 compliance. Encryption at rest uses industry-standard 256-bit Advanced Encryption Standard (AES) keys.
- Best-in-class data integrity**  
Count on data verification and file system health checks to overcome potential storage failures and help ensure recoverability.
- Multitenancy and role-based access**  
Create storage groups easily — and containers within those storage groups — to define separate storage policies and capacities. Advanced user roles allow for more granular control.
- Global View Cloud**  
Administer all QoreStor instances in a single console, from anywhere, on any device, making QoreStor easy to use, manage and maintain.

## Benefits:

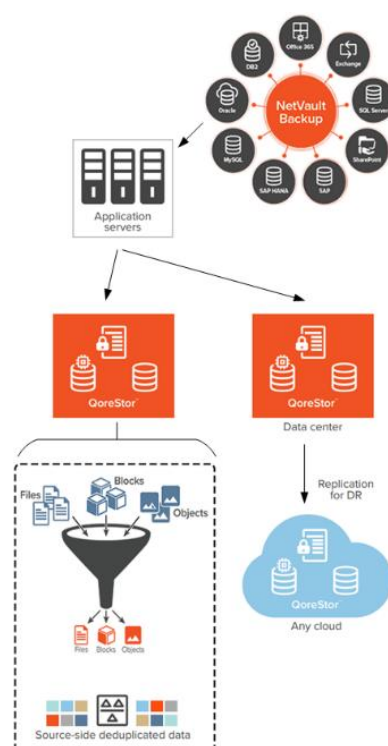
- Slash on-premises and cloud backup storage costs.
- Accelerate backup completion with unique protocol accelerators and dedupe.
- Replicate data on-premises or to another cloud.
- Shrink replication time by transmitting only changed data.
- Improve data security and comply with FIPS 140-2.
- Leverage your existing data protection technologies.
- Lower total cost of ownership through all-inclusive licensing

## Solution overview

### Data deduplication and replication

NetVault Backup is tightly integrated with Quest QoreStor™, a software-defined secondary storage platform. QoreStor helps accelerate backups, reduce storage requirements and costs, and replicate faster and safer to the cloud for archiving and disaster recovery. NetVault also integrates with other deduplication technologies.

And to reduce your TCO we've created an appliance in a single 2, 3 or 4U appliance that includes both NetVault and QoreStor with expansion options using up to 4 high end SAS/SSD storage enclosures.





## Dual Node Appliance features

| Feature                   | Excepta EQ-series dual node editions (per node)                                                                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chassis                   | Dual Node 2U rack mount server with 24 Hot Swap drive bays                                                                                                                                                                                                                                                                 |
| Processor                 | Intel® Xeon Scalable 12 cores, 16 cores up to 24 cores per CPU                                                                                                                                                                                                                                                             |
| Memory                    | 128GB, 256GB, 512GB up to 1TB ECC registered                                                                                                                                                                                                                                                                               |
| RAID                      | Data center, cloud and high-performance computing environments optimized<br>Support critical, high-bandwidth applications with PCIe® 3.1 connectivity<br>Connect up to 240 SAS/SATA devices or 24 NVMe devices per controller<br>RAID levels 0, 1, 5, 6, 10, 50, and 60<br>4GB cache memory<br>Write-back cache protection |
| HBA's                     | Connects up to 1024 SAS/SATA devices or 24 NVMe devices<br>Provides maximum connectivity and performance for high-end servers and applications<br>Support critical applications with the bandwidth of PCIe® 3.1 connectivity                                                                                               |
| Storage (internal)        | 2x Intel® PCIe NVMe M.2 slots<br>2x Intel® SSD slots<br><b>Hot swap screwless</b><br>SSD : 1,92TB, 3.84TB, 7,68TB<br>NVMe : On request                                                                                                                                                                                     |
| Storage (external)        | Storage enclosures supporting NVMe, SAS, SSD and NLSAS<br><b>Enclosure</b><br>Support SAS 12G / SATA 6G via dual/single Expander<br>Supports SES-2 (SCSI Enclosure Service)<br>Maintenance and management by Ethernet (optional) and RS-232<br>2 sets of 3 x 12Gbps port<br>CRPS power module support for all series       |
| Maximum physical capacity | 500TB capacity with 4 connected storage enclosures                                                                                                                                                                                                                                                                         |
| Operation system          | Microsoft Windows OEM for NetVault / Oracle Linux for QoreStor                                                                                                                                                                                                                                                             |
| Management                | Quest management software<br>Remote Management via iKVM                                                                                                                                                                                                                                                                    |
| Rack support              | Rack rails screwless included                                                                                                                                                                                                                                                                                              |
| Network connectivity      | 1Gbe, 10Gbe or 25Gbe (dual) ethernet ports (10Gbe ETH or SFP+)                                                                                                                                                                                                                                                             |
| Power                     | Dual redundant 1100W power supplies                                                                                                                                                                                                                                                                                        |



## Quad Node Appliance features

| Feature                   | Excepta EQ-series dual node editions (per node)                                                                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chassis                   | Dual Node 2U rack mount server with 24 Hot Swap drive bays                                                                                                                                                                                                                                                                 |
| Processor                 | Intel® Xeon Scalable 12 cores, 16 cores up to 24 cores per CPU                                                                                                                                                                                                                                                             |
| Memory                    | 128GB, 256GB, 512GB up to 1TB ECC registered                                                                                                                                                                                                                                                                               |
| RAID                      | Data center, cloud and high-performance computing environments optimized<br>Support critical, high-bandwidth applications with PCIe® 3.1 connectivity<br>Connect up to 240 SAS/SATA devices or 24 NVMe devices per controller<br>RAID levels 0, 1, 5, 6, 10, 50, and 60<br>4GB cache memory<br>Write-back cache protection |
| HBA's                     | Connects up to 1024 SAS/SATA devices or 24 NVMe devices<br>Provides maximum connectivity and performance for high-end servers and applications<br>Support critical applications with the bandwidth of PCIe® 3.1 connectivity                                                                                               |
| Storage (internal)        | 2x Intel® PCIe NVMe M.2 slots<br>2x Intel® SSD slots<br><b>Hot swap screwless</b><br>6x SSD : 1,92TB, 3.84TB, 7,68TB per node<br>NVMe : On request                                                                                                                                                                         |
| Storage (external)        | Storage enclosures supporting NVMe, SAS, SSD and NLSAS<br><b>Enclosure</b><br>Support SAS 12G / SATA 6G via dual/single Expander<br>Supports SES-2 (SCSI Enclosure Service)<br>Maintenance and management by Ethernet (optional) and RS-232<br>2 sets of 3 x 12Gbps port<br>CRPS power module support for all series       |
| Maximum physical capacity | 500TB capacity with 4 connected storage enclosures                                                                                                                                                                                                                                                                         |
| Operation system          | Microsoft Windows OEM for NetVault / Oracle Linux for QoreStor                                                                                                                                                                                                                                                             |
| Management                | Quest management software<br>Remote Management via iKVM                                                                                                                                                                                                                                                                    |
| Rack support              | Rack rails screwless included                                                                                                                                                                                                                                                                                              |
| Network connectivity      | 1Gbe, 10Gbe or 25Gbe (dual) ethernet ports (10Gbe ETH or SFP+)                                                                                                                                                                                                                                                             |
| Power                     | Dual redundant 1600W power supplies                                                                                                                                                                                                                                                                                        |

## About Excepta

Excepta helps customers to grow their business without having to worry about continuity delivering scalable, affordable and simple-to-use solutions that simplify IT and mitigate risk. The appliances, including the software from Quest and Excepta services, drives efficiency and provides peace of mind.

Appliances deviating from the default builds will be sized properly in conjunction with supplier.

