

# Using RDX USB drives in VMware Environments

SOLUTION BRIEF

Easy VM integration and vMotion deployment



The number of virtualization servers in the SMB area is steadily increasing and in some, it has become a standard. Virtualization makes the infrastructure simpler, more efficient, and saves operating costs. However, the role of backup and disaster recovery is becoming increasingly more important as physical servers and storage are consolidated.

## RDX QuikStor for VMware vSphere

Overland Tandberg's RDX QuikStor removable disk system can be implemented in VMware environments to offer easy to use and affordable storage for backup, archiving, data exchange and off-site storage. RDX provides a high-performance solution for all storage tasks requiring removability and off-site storage or compliance backup and archiving tasks. VMware enables you to pass through USB ports from the ESXi host to a guest machine, which can utilize RDX drives for individual storage applications, but this requires some knowledge of VMware and a shutdown of the virtual machine.

## Easy integration with networked RDX

An easier and more convenient way is to use a network attached RDX QuikStor. The validated combination of RDX QuikStor USB drives and Silex Technology's DS-600 USB device server, enables fast, easy, and cost-efficient deployment within your existing ethernet network. The USB device server converts the USB protocol into the ethernet network protocol. With this, virtual machines can easily access the RDX removable disk systems with all its features and functions for internal backup, storage or archiving tasks.

## Backup, disaster recovery, off-site storage

Backup is essential in order to continue after a catastrophic data loss event. Data loss could mean the loss of information which can never be recovered or rebuilt. RDX is an easy to use solution which is compatible with leading backup applications in the market. VMs can be easily recovered with RDX to ensure immediate business continuity after a system crash. Removability and off-site storage capabilities offer full disaster and virus and ransomware protection.

### Challenges

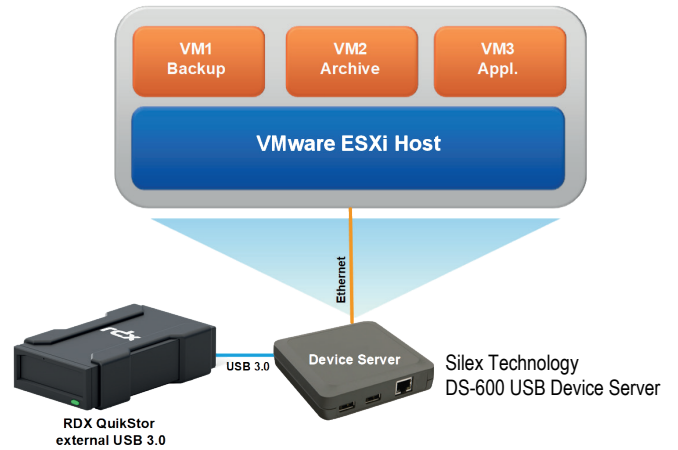
- Easy deployment of removable storage devices for individual VMs
- Limited off-site capabilities threatens disaster protection
- Increased impact of virus and ransomware attacks
- Most storage solutions are cost-intensive and complex to manage within a virtual environment

### Solution Benefits

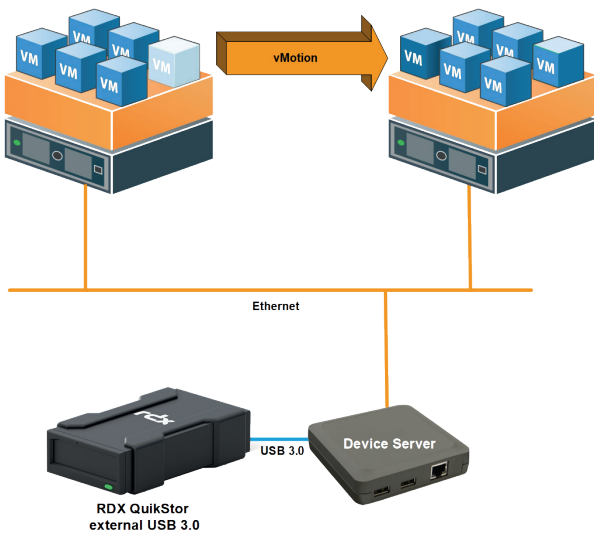
- Build your business cyber security resilience and be prepared and protected for disasters
- Solves many issues protecting individual virtual machines on VMware
- Use Removable Disk Storage with virtual machines on VMware
- Backup data spatial separation with RDX
- Mix and match your backup and archive storage capacity needs with RDX media
- Easy to deploy and ease of use reduces operational costs
- Low cost and budget friendly
- Media rotation and off-site vaulting meets compliance requirements
- Rugged RDX media design means no special care is required

## High flexibility

With a network attached RDX QuikStor drive, businesses gain flexibility in utilising their virtual machines. With the Overland-Tandberg solution, using the DS-600 USB device server in conjunction with the RDX USB drive, dedicated tasks can be spread across individual VMs. As an example, one VM could do a local backup with media rotation, another VM is responsible for archiving with off-site storage and another one is used for data transfer between different locations.



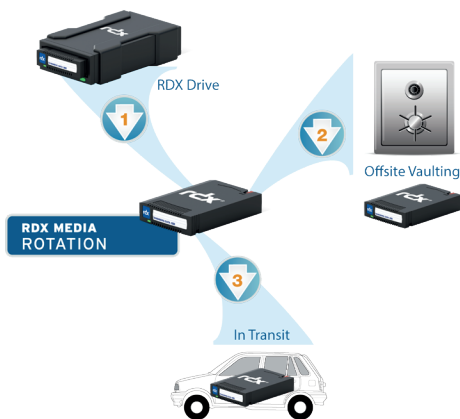
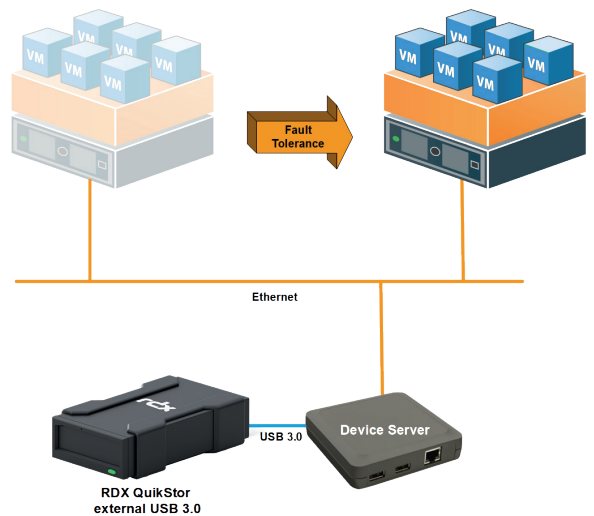
## vMotion capability



Another advantage of the networked RDX is the vMotion capability. VMware vSphere vMotion is a zero-downtime live migration of workloads from one server to another. Further, vMotion enables administrators to perform hardware maintenance without any scheduled downtime. During the workload migration, the applications are still running, and users continue to have access to the systems they need. The network attached RDX ensures uninterrupted storage operations due to the storage vMotion functionality.

## Fault Tolerance with RDX QuikStor

VMware Fault Tolerance provides continuous availability for virtual machines by creating and maintaining a secondary VM that is identical to, and continuously available to replace, the Primary VM in the event of a failover situation running on another host. With networked RDX, data stored on the RDX media is immediately accessible without interruption, which would not be possible with direct attached devices via SATA or USB.







## Benefit from removable disk storage

Using networked RDX QuikStor enables customers to implement a media rotation scheme in a VMware environment. For backup, media rotation is a best practice to provide multiple layers of protection. One media would reside in the drive ready for the backup or other storage tasks, one media is located offsite at an external location and the third one would be on its way either to or from the office. A media rotation scheme with at least three media cartridges allows users to meet most disaster protection and compliance requirements.



## Networked RDX product portfolio

RDX Appliances					
					
Product	RDX QuikStor External Drive	RDX QuadPAK	RDX QuikStation 4		RDX QuikStation 8
Form Factor	External desktop	1.5U rackmount for up to 4 external RDX QuikStor drives	1U rackmount or desktop		2U rackmount
Connectivity	Ethernet with USB Device Server**	Drive dependent	iSCSI		
Performance	up to 260MB/s, depending on media type	Dependent on number of installed RDX drives	4 x 1 Gigabit Ethernet speed		2 x 10 Gigabit Ethernet speed
Capacity		Dependent on number of installed RDX drives	20TB using 4 x 5TB media, unlimited offline capacity		40TB using 8 x 5TB media, unlimited offline capacity
Media Capacity Points	500GB, 1TB, 2TB, 3TB, 4TB, 5TB (HDD); 1TB, 2TB, 4TB (HDD, WORM)				
Operational mode	Removable Disk Mode and Fixed Disk Mode		4 RDX removable and fixed disk drives 1 Logical volume across all RDX drives* 1 Protected logical volume across all RDX drives* Emulated disk autoloader		8 RDX removable and fixed Disk drives 1 Protected logical Volume across all 8 RDX drives* 2 Logical Volumes across 4 RDX drives* 2 Protected logical volumes across 4 RDX drives* Emulated disk autoloader, tape automation modes and hybrid mode
Physical Specs			Rackmount	Desktop	Rackmount
Height	41mm (1.63 in.)	72,5mm (2.85 in.)	43mm (1.69 in.)	68mm (2.68 in.)	86mm (3.4 in.)
Width	102mm (4.00 in.)	481mm (18.94 in.)	440mm (17.32 in.)	464.5mm (18.94 in.)	440mm (17.32 in.)
Length	478mm (18.82 in.)	248mm (9.45 in.)	478mm (18.82 in.)	481mm (18.94 in.)	521mm (20.5 in.) incl. bezel
Weight	11.3kg (25 lb.)	2.66kg (5.86 lbs.)	11.3kg (25 lb.)	13.6kg (30 lb.)	14.96kg / (33.3 lb.)
Standard Warranty	3-years OverlandCare Bronze Level (3-Years Advanced Replacement Service)				

\* Logical Volumes are available in fixed or removable mode. Total capacity is media and operation mode dependent.

\*\* Optionally available, verified systems can be found in our compatibility list.

Sales and support for Overland-Tandberg products and solutions are available in over 90 countries.  
Contact us today at [salesemea@overlandtandberg.com](mailto:salesemea@overlandtandberg.com)

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