

# Replace your entry level tape environment with RDX



Most IT professionals would prefer to perform full backups within their environments. But, to save time and money, they end up doing incremental tape backups using the common Grandfather-Father-Son (GFS) backup rotation scheme.

## Choose RDX as a tape replacement

A disadvantage of incremental backups is that the restore operation requires more tapes and more time than restoring the data from the last full backup. RDX combines the benefits of tape, like removability, but also the benefits of disk, like random access and high transfer rates, which enables RDX to be used in backup scenarios with deduplication and compression features. This reduces the number of needed media significantly and offers two advantages:

- Users can store more backup data on a single media
- The number of rotated media will shrink drastically, and media management becomes easier

But there is another important advantage:

Administrators will always have a full backup available with multiple recovery points for individual restores of older versions or restores of files which might be deleted by accident.

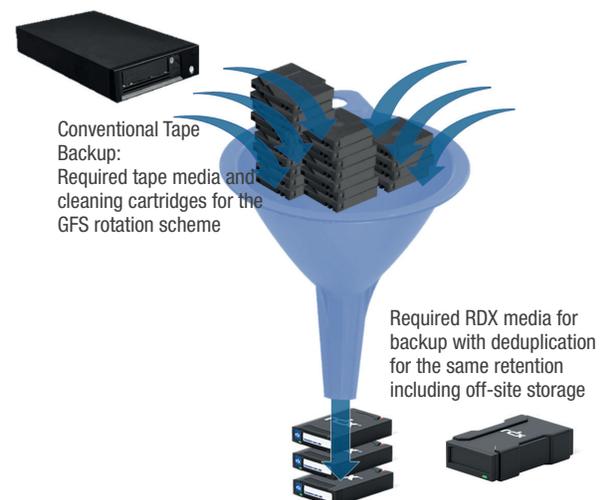
The traditional Grandfather-Father-Son backup scheme requires 21 media. A simple media rotation scenario with deduplication on the other hand, needs between 2 and 4 media.

## Easy media rotation with RDX

Media rotation with RDX provides multiple layers of protection using one type of backup media. It enables businesses to recover from local disasters as well as from virus and ransomware attacks. In addition, RDX allows system restores and even to be used as a boot device as a full disaster recovery solution after a total system crash.

### RDX Advantages

- Reduction in size of backup sets due to deduplication and compression capabilities
- Reduction of duration of daily backups
- Reduction in media needed for a GFS data retention procedure
- Reduction in media needed for a full restore (usually one media needed)
- Reduction in media management and backup effort
- Increase in backup efficiency
- Increase in application possibilities as RDX can be configured as a boot device for easy bare metal restores





## RDX WORM for compliance archiving

In sectors like financial services, healthcare and government, there are strict regulations related to retention of data records in unalterable formats. WORM (Write Once Read Many) storage technology is an industry accepted best practice for storing archived data for compliance. RDX WORM media can be used to store both structured and unstructured data (e.g., tax filings, video, x-rays, sensor data, software source code) and prevents that data from being deleted, changed or overwritten.

## Introducing RDX PowerEncrypt

RDX PowerEncrypt data encryption can be added to any RDX media. It encrypts the data written to the RDX media using AES-256 XTS standards and access to the data is secured by a password key deployed with the RDX Manager software. Without the password key, the data that resides on the RDX media cannot be accessed by an unauthorized user making both the media and data useless. With RDX PowerEncrypt, you can be confident your data is protected.



RDX vs. Entry Level Tape	RDX	Entry Level Tape
Fast deployment (< 5min.)	Yes	No
Full forward / backward compatibility	Yes	No
USB powered (external drives)	Yes	No
Drop and static protection	Yes	No
Vibration isolation	Yes	No
WORM	Yes	Yes
Hardware encryption*	Yes	Yes
Media wear / cleaning	N/A	Yes

\*available for internal SATA III drives

## RDX QuikStation - The ideal autoloader replacement

The Overland-Tandberg RDX® QuikStation® is an iSCSI network-attached removable disk appliance designed to provide a flexible platform for data protection and off-site disaster recovery for physical or virtual SMB and SME environments. Providing multiple operation modes, the QuikStation can be configured as a disk or tape autoloader as well as a tape library. So, existing legacy installations can be easily replaced.

Awards	
Storage Magazine:	Disk Product of the Year
Tech World:	Backup Product of the Year
Personal Computer:	Recommended Award
PC Pro:	Recommended Award
IT Reviews:	Recommended Award
DatorMagazine:	Recommended Award
PCMagazine:	4 Stars
Coverage:	NY Times, CIO Today, CNBC, CNET Int'l Herald Tribune, Data Storage Today




	GFS Backup Scenario with Tape	Backup with Deduplication with RDX
Backup	Initial full backup once a week, then only changed data need to be backed up	Initial full backup with deduplication. Then only new blocks need to be backed up, very fast backup
Restore	Slow, multiple media needed for restore	Easy, just one media needed, but takes long as blocks need to be consolidated
# of media	21	2 - 4
Backup retention	last 5 days, last 4 weeks, last 12 months	Dependent on media capacity utilization, a single dedupe backup media can have the same data retention as you achieve with a GFS backup or more

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

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