

## ReadVerify™ Appliance (RVA)

### Highlights

- Fully utilize existing tape library assets
- Prevent premature wear of over-used resources
- Identify drive usage imbalances
- Proactively identify degrading tape media
- Validate regulatory and SLA compliance

### Overview

Tape media is used as part of organizations' disaster recovery and archive initiatives; however, tape backups and recoveries fail at all too regular rates, placing crucial corporate data at risk. Tape failures can be the result of a complex mix of issues relating to the tape drives, media, network and applications. Crossroads ReadVerify Appliance (RVA) provides a non-intrusive method for monitoring, validating and reporting on the performance, utilization and health of the physical tape library environment.

### Key Features & Benefits

#### *Maximize Utilization and Performance of the Tape Library*

With the information provided in RVA's reports, an administrator can maximize and balance the utilization and performance of the library's tape drives. This leads to: completing backup jobs on time, minimizing purchases of unnecessary drives, eliminating maintenance on unneeded equipment and preventing premature wear of over-used resources.

#### *Extend the Life of Tape Media*

Proactively assessing tape media validity over its effective life, RVA tracks the capability of the backup system to read media and analyzes results over time. Results are compared against a user-defined set of policies, and users are alerted to suspect media. RVA provides a vehicle to remove error-prone or defective media before a backup failure occurs.

#### *Minimize Data Risk*

By monitoring the health and integrity of the tape drives and media, RVA provides a proactive indication of data at risk. RVA tracks and correlates reported media errors on tapes and drives over their effective life, providing the means to determine whether the media or device is operating below manufacturers recommended standards. By swiftly identifying the degrading asset, corrective action can be taken to quickly minimize risk to data. Also, rapid problem identification reduces tape wastage.

#### *Automated Reports and Real-Time Alerts*

RVA reports on multiple tape and drive parameters, including hard and soft read and write errors, drive and library firmware version, drive performance, drive occupancy and utilization. RVA real-time alerts are individually enabled and configured to trigger at user-defined thresholds. Reports and alerts can be emailed to multiple addresses. Through an intuitive Web-based console, RVA displays graphs and statistics on the library, tape drives and media, exposing tape subsystem metrics for quick analysis. Also, RVA provides a mechanism for third-party applications to access its database for expanded reporting capability.

#### *Optional ArchiveVerify™ Ensures All Tape Media is Readable*

ArchiveVerify (AV) is an optional feature for RVA that enables users to ensure what has been written to tape media can be read for recovery or compliance audits. AV offers an automated process based on administrator-applied policies for selected tape pools. Verification procedures are automatically initiated on the entire written length of tape media.



ReadVerify Appliance

## Specifications

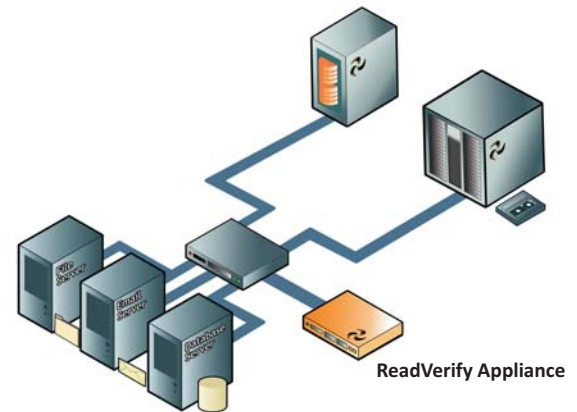
Physical Specifications	
Form Factor	1U
SAN Connectivity	1, 2, 4 GB FC Support
AC Power	100-240 VAC auto-sensing 50/60 Hz, 4.0 Amps
Power and Reset Switch	
	Yes
System LEDs	Power/fault, system overheat, and hard disk activity
Ethernet LEDs	Status and activity
Width	42.6 cm (16.8 in)
Depth	35.8 cm (14.1 in)
Height	4.31 cm (1.72 in, 1U)
Weight	10.4 kg (23 lbs)
Environmental Specifications	
Operating Temperature	10 to 40° C
Heat	564 BTUs
Relative Humidity	20 to 80% non-condensing
Regulatory Compliance	
ROHS	Yes
Safety & Emissions	FCC Part 15 Class A UL 1950 EN 60950 CISPR 22 Class A CE VCCI AS/NZS 3548 Class A

System Monitoring	
Utilization and performance per drive and across drives in a system	
Activity by drive and cartridge	
Monitors read/write errors per tape and per drive	
System inventory and status	
Policy-based Alerting and Reporting	
Daily reporting on storage system activity	
Weekly reporting on slots, cartridge usage, over/under utilized drives and drive performance	
Alerts on backup impact conditions, such as communication loss or stuck tape	
Alerts and reporting on specific drive and cartridge write/read/load errors	
Database of historical usage and reported errors	
System Reporting	
Library slot capacity and configuration	
Drive types, quantities and firmware versions	
Cartridge types and barcode	
Data compression ratios	
Drive serial numbers, element addresses, worldwide node names	
Management Access	
10/100/1000 Ethernet RJ-45 port for FTP and Web-based management console	
DHCP support	
SNMP support	
Field-updatable firmware	
Email notification	



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**ReadVerify Appliance (RVA) Architecture**  
Crossroads ReadVerify Appliance (RVA) proactively validates the integrity of tape backup systems.

### ABOUT CROSSROADS

Headquartered in Austin, Texas, Crossroads Systems delivers flexible solutions to protect, secure and restore business-critical "data-at-rest." Crossroads (symbol: CRDS) is currently traded on Pink Sheets and also posts its financial disclosure reports, press releases and other related documentation on the OTCIQ web service of the Pink Sheets website. For more information, please visit [www.crossroads.com](http://www.crossroads.com).



Crossroads promotes institutional and personal environmental responsibility within the company, with our partners and with the users of our products. We are committed to providing the best products and services while encouraging practices consistent with sustainable living and resource conservation.