

Data Sheet



Highlights

- Fully maximize existing tape library assets
- Identifies drive usage imbalances
- Proactively identify degrading media and tape drives
- Isolate issues down to root causes
- Validate regulatory and SLA compliance

ReadVerify® Appliance (RVA) 4.0

Overview

A tape library, with its associated drives and media, represent a significant investment in a data center's disaster recovery and archive infrastructure. However, while storage applications provide feedback on the success or failure of a data transfer, little information is available on resource efficiency or root cause failure isolation. Data transfer failures and tape errors 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 nonintrusive 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.

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 personal overhead required for unscheduled data recovery activities.

Automated Reports and Real-Time Alerts

RVA reports on multiple tape and drive parameters, including hard and soft read and write errors, drive performance, occupancy and utilization, load counts, drive status conditions, and cleaning history. RVA real-time alerts are individually enabled and configured to trigger at user-defined thresholds. Media and drive metrics are accessible through the life of the resource and beyond. 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 thirdparty applications to access its database for expanded reporting capability.

Simple, Non-Intrusive Installation RVA plugs seamlessly into the Fibre Channel SAN to collect statistics directly from the tape library and tape drives. Agentless installation is available either as single 1U appliance, or as a Vsphere client in a VMware ESXi 4.1 environment. RVA collects information during the actual data transfers, providing unique visibility into the interaction of the storage applications with the tape library resources.

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 a completely automated process to validate media readability based on administrator-applied policies. Verification procedures test the entire written length of written media with no disruption of existing operations, all while the data remains securely within the library. Quick Verify for LTO media, a feature of AV, gathers a wide variety of cartridge data from the media, providing detailed visibility into the cartridge history.

RVA 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, EN60950, CISPR 22 Class A, CE, VCCI, AS/NZS 3548 Class A

Specifications – RV300vm	
VMware Specifications	
VMware	ESXi 4.1 vSphere Client
Server	Must Support VMware VMDirectPath
Memory allocation	4 GB RAM 250 GB local disk
I/O allocation	2 Ethernet NICs
Fibre Channel connection	ATTO Celerity FC-42ES HBA (purchased separately)

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

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

Single RVA Supported Configuration

Up to 250 devices where a device is a library, library partition or tape drive

Up to 2 independent SAN fabrics

Up to 100,000 occupied tape slots



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ABOUT CROSSROADS

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