

ArchiveVerify™ (AV)

Highlights

- Verifies readability of all current and long-idle tape media
- Quick Verify for LTO Media
- Fully-automated processes
- Library data remains accessible
- Disaster recovery/business continuation assurance
- Regulatory and compliance audit validation
- SLA validation

Overview

ArchiveVerify™ (AV) is an optional feature for Crossroads ReadVerify® Appliance (RVA) that reduces the risk of losing data stored on tape media and lowers costs associated with tape backup and archive. Enabling users to insure what has been written to tape media can be read, AV provides an automated process based on administrator-applied policies for selected tape pools. Verification procedures are automatically initiated. Full analysis is conducted on the entire written length of tape media. Reporting capabilities also fulfill requirements for regulatory compliance audits.

Key Features & Benefits

Completely Automated, Integrated Tape Verification

Current industry practice for verifying readability of archived media typically involves manual spot audits on portions of tape media. The expectation is that spot audits will represent the actual readability of the entire tape pool, but this approach is not a statistically-reliable verification. Tape media fails for many reasons—simply checking a sample of tapes in a library does not ensure that other tapes will be readable, nor does it verify that unchecked portions of test tapes are readable. AV automatically tests the entire length of every tape in the tape media pool, giving users confidence in the ability to recover all data.

User-Configurable Verification and Reporting

The data verification process does not require additional library equipment. AV uses the existing SAN network, tape library and drives. Administrators designate an AV tape pool, determine selection criteria for verifying media, designate drives for conducting verification, then configure time windows for verification (typically, not during backup operations). Once configuration is

complete, no further user intervention is required. AV automatically schedules and handles the verifications and emails daily reports to the administrator showing the condition of validated media. Reports and alerts allow administrators to identify issues and implement resolutions prior to a recovery event.

Libraries Remain Accessible During Verification

Industry standard operations are used to perform data validation. Because verification is performed by the tape drive on the media data blocks, AV is completely agnostic: It doesn't matter what application is used to create the data or whether tape is encrypted. By containing the verification within the tape drive, data is secure and server/network resources are not impacted.

Complete Audit for Regulatory Compliance and SLA Validation

Full reports showing metrics of all tape verifications provide clearly documented records for regulatory compliance or Service Level Agreement (SLA) audits. Additionally, to ensure business continuity in the face of disaster, AV provides a level of assurance that data stored to tape will be recoverable if needed.

Quick Verify for LTO Tapes

Quick Verify uses AV resources to quickly load LTO media and read data from the RFID cartridge memory chip. This information provides a quick verification that the last write operation to the cartridge was successfully completed. In addition, Quick Verify also gathers a wide variety of cartridge data, including media manufacturer, manufactured date, lifetime media usage, and more. Quick Verify provides detailed visibility into cartridge history, so informed decisions can be made on long term storage, continued operation, and retirement plans for LTO media.

RVA Specifications

ArchiveVerify is an optional licensed feature of RVA.

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) |
|-------|-------------------|

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|--------|-----------------------|
| Height | 4.31 cm (1.72 in, 1U) |
|--------|-----------------------|

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|--------|------------------|
| Weight | 10.4 kg (23 lbs) |
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Environmental Specifications

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|-----------------------|-------------|
| Operating Temperature | 10 to 40° C |
|-----------------------|-------------|

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|------|----------|
| Heat | 564 BTUs |
|------|----------|

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|-------------------|--------------------------|
| Relative Humidity | 20 to 80% non-condensing |
|-------------------|--------------------------|

Regulatory Compliance

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|------|-----|
| ROHS | Yes |
|------|-----|

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|--------------------|--|
| Safety & Emissions | FCC Part 15 Class A, UL 1950, EN60950, CISPR 22 Class A, CE, VCCI, AS/NZS 3548 Class A |
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ArchiveVerify Features

Policy-based Automated Tape Verification

User-defined verification window

User-defined ArchiveVerify tape pool

User-defined Verification policies:

- Tapes not accessed for a period of time
- Tapes exceeding error thresholds
- Tapes that have re-entered the library
- Quick Verify policies

Alerting and Reporting

Daily reports on verification activity:

- Tape type, status, data read, verification duration, error count & verification drive
- Status report on tape: passed, failed, invalid End-of-Data marker, cancelled & unable to verify
- Cartridge memory data collected for LTO Media

Configuration Warnings

- Drives not allocated for all tape types, ineligible tapes & missing tapes

Alerts

- New alerts for ArchiveVerify activity
- Existing RVA alerts trigger for ArchiveVerify conditions

RVA and ArchiveVerify—Integrated Solution

- All RVA, ArchiveVerify and Quick Verify statistics viewable via same Web-based user interface
- In multi-library environment, ArchiveVerify can operate on any and all libraries monitored by RVA.



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ABOUT CROSSROADS EUROPE GmbH

Crossroads Systems, Inc. (NASDAQ: CRDS), is a global provider of solutions and services that ensure stored data is proactively protected and reliably recovered. Crossroads offers organizations powerful data protection, proactive data security, intelligent storage connectivity, unmatched performance, and significant cost savings. Founded in 1996 and headquartered in Austin, Texas, Crossroads holds more than 100 patents granted and pending and has been honored with numerous industry awards for innovation in data protection and storage. Visit www.crossroads.com.

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