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MAINFRAME SOFTWARE

Product Brief

Tape Encryption

Key Benefits

- **Reduces vulnerability:** Protects against data breach and the inherent potential for loss of revenue and negative press

- **Optimizes resources:** Offers an automated solution to key management that exploits other Broadcom facilities to deliver optimum performance and limit processor overhead

- **Streamlines interaction:** Utilizes a common GUI that can be either web-based or Windows-based

Key Features

- **Transparent cryptography for any z/OS tape application:** During decryption, Tape Encryption automatically identifies encrypted tapes it owns and dynamically invokes the appropriate decryption routine.

- **Encryption and compression on the IBM System z Integrated Information Specialty Processor (zIIP):** Users can fully protect growing volumes of businesscritical data by unifying on zIIP processors to reduce processor power requirements and tape storage management costs.

At a Glance

Tape Encryption encrypts mainframe and distributed data as it is being written to standard-label z/OS tapes. Designed to safeguard personal and business-critical information from unauthorized access, it is a flexible, easy-to-use and comprehensive solution that does not require JCL or application changes. Best of all, it provides for data protection even if those tapes fall into the wrong hands.

Business Challenges

Tape Encryption is designed to be an innovative, flexible, easily implemented and comprehensive z/OS tape encryption solution. It helps ensure that your data is protected from breaches—even if your tapes fall into the wrong hands.

Tape Encryption can be implemented without the need to purchase expensive and complex hardware. With this mainframe solution, you can take steps to shield your company from fines, costly corrective processes and the negative publicity that can occur when personal and business-critical data are compromised.

Solution Overview

Tape Encryption encrypts mainframe and distributed data as it is being written to standard-label z/OS tapes. Designed to be a flexible, easy-to-use solution for your data security requirements, it helps safeguard personal and business-critical information from unauthorized access.

Automate the Data Encryption Process
In addition to the automated expiration and safe removal of expired keys, Tape Encryption offers full lifecycle key management including creation, monitoring, tracking, auditing and backup and recovery.

Provide Health Checks for Optimum Performance
Tape Encryption provides nine health checks to inspect parameter settings and to monitor active encryption processing for possible problems.

Adjust to Many Environments
With Tape Encryption, tape data is only encrypted when you want it to be, using the encryption method you choose. During decryption, it automatically identifies the encrypted pages that it owns and dynamically invokes the appropriate decryption routine.

Key Features (cont.)

- **Common user interface:** Integration with Graphical Management Interface provides access to the keys and policies in use, as well as details on tape encryption and decryption activity and access to Tape Encryption database.

- **Flexible cryptography:** This solution provides support for symmetric cryptography using Advanced Encryption Standard, Data Encryption Standard, and Triple Data Encryption algorithms as well as asymmetric cryptography to support business-to-business applications.

Solution Overview (cont.)

Maintain Security
Tape Encryption interfaces with all z/OS external security systems using standard z/OS System Authorization Facility calls. It supports digital certificates for B2B tape exchange using B2B Asymmetric Cryptography and includes B2B decryption of client-partner data.

Critical Differentiators

Storage Management solutions from Broadcom are designed to be different than traditional storage vendors. We offer software, not hardware, and that is important. We are vendor-neutral. We go beyond proprietary storage-specific offerings that just offer hardware-specific installation, management and support. We help you get the most out of your disk and tape investments. Plus, we can help you address compliance and green initiatives—while also increasing efficiency and improving the security of your business information.

Related Products

- **Vantage™ Storage Resource Management:** Helps maximize use of your entire storage infrastructure
- **Vtape™ Virtual Tape System:** Improves tape utilization and processing performance with virtualization

For more information, please visit **www.broadcom.com/products/ mainframe/product-portfolio/tape-encryption.**

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