

CA Tape Encryption



At a Glance

CA 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.

Key Benefits/Results

- **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 CA Technologies 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, CA 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 business-critical data by unifying on zIIP processors to reduce processor power requirements and tape storage management costs.
- **Common user interface.** Integration with CA Graphical Management Interface (CA GMI) provides access to the keys and policies in use, as well as details on tape encryption and decryption activity and access to CA Tape Encryption database.
- **Flexible cryptography.** This solution provides support for symmetric cryptography using Advanced Encryption Standard (AES), Data Encryption Standard (DES) and Triple Data Encryption (3DES/TDES) algorithms as well as asymmetric cryptography to support Business-to-Business applications.

Business Challenges

CA 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.

CA 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

CA 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.

Automates the data encryption process. In addition to the automated expiration and safe removal of expired keys, CA Tape Encryption offers full lifecycle key management including creation, monitoring, tracking, auditing and backup and recovery.

Provides health checks for optimum performance. CA Tape Encryption provides nine health checks to inspect parameter settings and to monitor active encryption processing for possible problems.

Adjusts to many environments. With CA 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.

Maintains security. CA Tape Encryption interfaces with all z/OS external security systems using standard z/OS System Authorization Facility (SAF) 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 CA Technologies 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/Solutions

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

For more information, please visit ca.com/mainframe/storage

CA Technologies (NASDAQ: CA) creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business, in every industry. From planning to development to management and security, CA is working with companies worldwide to change the way we live, transact and communicate – across mobile, private and public cloud, distributed and mainframe environments. Learn more at ca.com.