

# CA Tape Encryption Key Manager

CA TAPE ENCRYPTION KEY MANAGER IS THE FIRST z/OS-BASED, SOFTWARE TAPE ENCRYPTION KEY SOLUTION THAT CONSOLIDATES AND UNIFIES MANAGEMENT ACROSS MULTIPLE VENDORS AND TAPE ENCRYPTION HARDWARE. IMPLEMENTING THE CA TAPE ENCRYPTION KEY MANAGER DELIVERS PEACE-OF-MIND THROUGH RISK REDUCTION OF MISSING ENCRYPTION KEYS AND DATA AVAILABILITY THAT CAN LEAD TO POTENTIAL FINANCIAL IMPACT RESULTING FROM LOST REVENUE OR CUSTOMERS, NEGATIVE PUBLICITY AND DOWNTIME COSTS.

## Overview

The drive to encrypt data using new tape encryption hardware has uncovered problems aligned to cost and complexity. Data centers deploying multiple encryption solutions discover Key management is largely a manual task and each vendor's technique is different. Ineffective Key management is the source of most operational problems, increasing costs and, can actually create accessibility problems if the vendor does not have a good system for managing the Keys themselves.

## Benefits

CA Tape Encryption Key Manager automates and unifies encryption Key management across multiple vendors and tape encryption solutions.

It acts like an "Insurance Policy" ensuring compliance through automation and full life cycle Key management.

It also saves costs by not requiring hiring additional staff to manage complex encryption projects and compliance programs.

Since it is vendor-neutral, you avoid being locked in to a vendor's proprietary hardware system.

## The CA Advantage

CA Tape Encryption Key Manager expands on CA's 30+ years of tape management leadership, offering tight integration with CA's z/OS Storage Management Solutions.

CA Tape Encryption Key Manager is the only z/OS software encryption solution that offers automated integrated full life cycle Key management and works with all mainframe security and tape management systems employed today, plus uses your existing virtual and physical tape infrastructure.

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## CA Tape Encryption Key Manager Consolidates and Automates Full Life Cycle Key Management Across Multiple Vendors and Tape Encryption Solutions

Sustained compliance urgency is impacting corporate policies and government regulations ability to meet the needs of today's business environment. The need to deliver effective management and protection of personal and business-critical information and data to meet regulations and corporate policies grows daily.

A data center's ability to rapidly deploy and manage encryption hardware can be difficult, especially when multiple hardware encryption solutions are involved. It is even more time consuming to manage multiple encryption solutions using a manual approach. Ineffective or haphazard implementation of important Key management policies are the source of most operational problems and increase data center costs, including complications with Key distribution, Key backup and recovery as well as inability/inflexibility to support minor configuration changes.

Implementing the CA Tape Encryption Key Manager delivers peace-of-mind through the reduction of risk. Loss of encryption keys and data availability can lead to potential financial impact resulting from lost revenue or customers, negative publicity and downtime costs.

- **Consolidates Multi-vendor Tape Encryption Key Management** Reduces complexity, lets you manage more with no additional headcount, without requiring extensive training or knowledge.
- **Automation Transparency** Automation speeds operational effectiveness to save time and resources and reduce overall tape TCO and ensures accuracy.
- **Hardware Independent** It's media-neutral and vendor-neutral approach will help your data center yield reduced complexity, and speed time to market.
- **Cross-platform Support** Single solution can manage encryption Keys regardless if mainframe or distributed.
- **Data Breach Protection** It secures Keys and data to reduce the risk of costly financial exposures to fines, negative publicity, remediation costs or lost customers.

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## Key Capabilities

**CENTRALIZED MANAGEMENT OF ENCRYPTION KEYS** Centralizing Key management enables efficient compliance and administration of the entire tape encryption infrastructure. The status of managed Keys across multiple CPUs can be seen at a glance.

**AUTOMATED FULL LIFE CYCLE ENCRYPTION KEY MANAGEMENT** CA Tape Encryption Key Manager features full Life Cycle Key management that goes beyond just the central identification, storage and protection of Keys. It includes the creation, monitoring, tracking, auditing, backup and recovery, and the automated expiration and removal of expired Keys.

**AUTOMATED TAPE KEY GENERATION AND KEY CHANGE POLICY ENFORCEMENT** Supports dynamic, automated change of encryption Keys and digital certificates used to protect data encryption Keys to reduce risk and manual intervention.

**EXTERNAL SECURITY SYSTEMS** CA Tape Encryption Key Manager interfaces with all z/OS external security systems like CA ACF2™ for z/OS, CA TopSecret® for z/OS, and IBM RACF.

**FIPS 140-2 COMPLIANCE** CA Tape Encryption Key Manager provides support for customers looking to implement FIPS 140-2 compliance. CA Tape Encryption Key Manager will, at user specified intervals, automatically generate and store encryption Keys using FIPS 140-2 hardware and deliver them as needed to select hardware tape encryption devices.

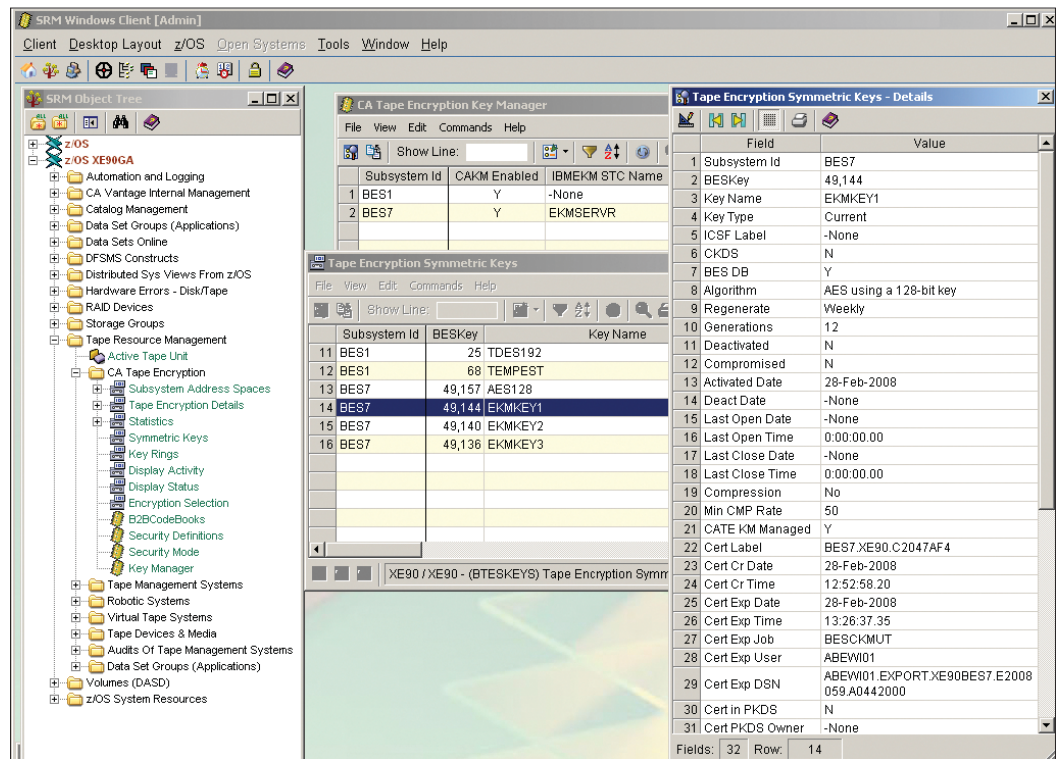
**NIST 800-57 KEY STANDARDS** Helps ensure compliance and fully supports the National Institute of Standards and Technology, document NIST 800-57, “Recommendation for Key Management.”

**TAPE MANAGEMENT SYSTEM SUPPORT** Integration of CA Tape Encryption Key Manager into CA’s z/OS tape management systems, CA 1® Tape Management and CA TLMS® Tape Management, provides simplified full life cycle management.

**INTEGRATED WITH CA VANTAGE™ GRAPHICAL MANAGEMENT INTERFACE (CA VANTAGE GMI)** This no cost feature brings many of the capabilities of CA Vantage™ Storage Resource Manager to the power of CA Tape Encryption and CA Tape Encryption Key Manager. The CA Tape Encryption Key Manager display presents each RSA Key (digital certificate) created, as well as the CA Tape Encryption Key Manager subsystems and configuration settings.

**FIGURE A**  
CA Vantage GMI Object Tree, showing the CA Tape Encryption Interface.

**UNIFY AND SIMPLY STORAGE MANAGEMENT OPERATIONS**



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## What's New in CA Tape Encryption Key Manager

This new release of CA Tape Encryption Key Manager gives users flexibility and choice to select the best possible implementation and use of the product for their environment.

**CA TAPE ENCRYPTION SUPPORT** When coupled with CA Tape Encryption, encrypts mainframe and distributed data as it is being written to standard label z/OS tapes.

**IBM TS1120 SUPPORT** Ability to manage tape encryption Keys, for z/OS and distributed environments, when attached to an IBM TS1120 tape device.

**RSA KEY PAIRS FOR THE ENTERPRISE** Ability to create RSA Keys (public private Key pairs) in digital certificates for any application that supports digital certificates adhering to the X.509 standard.

**DIGITAL CERTIFICATE PROTECTION** Every digital certificate created by CA Tape Encryption Key Manager is also saved in the product database, providing additional protection of this critical resource.

**AUTOMATIC SYNCHRONIZATION WITH SECURITY SYSTEM** When CA Tape Encryption Key Manager is started in a multi-system or disaster recovery environment, the digital certificates that it has created are automatically imported into the active security system if they are not found. This provides for fast and automated recovery of encrypted data.

**EXPORT UTILITY** An export utility is provided to enable you to extract the digital certificates created in X.509 format for use by other applications on any platform.

### Supported Environments

All current IBM supported z/OS environments running in z/Architecture mode.

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## The CA Advantage

CA Tape Encryption Key Manager is the only z/OS software encryption solution that offers automated integrated full life cycle Key management, works with all mainframe security and tape management systems employed today, plus uses your existing hardware tape encryption devices. CA Tape Encryption Key Manager is an integral part of CA's z/OS Mainframe Enterprise IT Management (EITM) strategy, which helps to unify and simplify storage management.

### Beyond z/OS Storage Management: Enterprise IT Management

CA's z/OS Mainframe Storage Solutions are an important part of CA's overall approach to transforming Enterprise IT Management. With our unique capabilities, CA can help you unify and simplify IT management across the enterprise for greater business results. Our Enterprise IT Management vision, proven Capability Solutions and expertise help customers govern, manage and secure IT. Customers gain the ability to manage risk, improve service, manage costs and align IT investments with the needs of the business.

CA has the software, services and technology to help you address your most critical challenges. Through CA Services and our partners, we can help you assess your current IT situation and management needs, define your goals in terms of process improvement and implement solutions to help you gain measurable results as quickly as possible. Our structured, proven, phased approach draws on the expertise and best practice knowledge developed during thousands of successful projects in large and diverse organizations.

The global network of people, systems and services of CA Support delivers unparalleled technical and customer support devoted to keeping your CA solutions operating at peak performance. We also offer all levels of training around industry best practices and specific solutions, as well as certification through CA Education. Our Unified Learning Approach helps you assess your training needs and develop a plan to address those needs to gain the most from your software investments.

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## Next Steps

You know your enterprise's IT is the most critical and irreplaceable asset. You also know that:

- Data is increasingly critical to your enterprise, especially given growing and changing compliance, governance and risk concerns.
- You need to deliver comprehensive, integrated storage optimization solutions to reduce storage-related costs, increase productivity and improve service levels.
- It's only going to get more challenging.

Our goal is to exceed customer expectations to exploit the value of the mainframe, balanced with business and regulatory requirements, to maximize your storage investments. You should take a closer look at CA Storage Management solutions. They provide complete solutions that optimize storage assets and help leverage your existing investment in storage hardware and software, including features for improved utilization, cost containment and compliance that are unmatched by competitive offerings. Our solutions are designed to meet your enterprise's needs, today and tomorrow.

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To learn more, and see how CA Tape Encryption Key Manager or other CA Storage Management software solutions enable organizations to unify and simplify IT management for better business results, visit [ca.com/mainframe/storage](http://ca.com/mainframe/storage) or call 1-877-246-3674.