

PRODUCT FAMILY BRIEF: CA STORAGE MANAGEMENT SOLUTIONS FOR z/OS MAINFRAMES

CA Storage Management Solutions for z/OS Mainframes Contain Costs, Optimize Resources

CA Storage Management Solutions for z/OS Mainframes
Mainframe Storage Management

CA Storage Management Solutions for z/OS Mainframes

CA 1® Tape Management

CA Allocate™ DASD Space and Placement

CA Disk™ Backup and Restore

CA Tape Encryption

CA Tape Encryption Key Manager

CA TLMS® Tape Management

CA Vantage™ Storage Resource Manager

CA Vtape™ Virtual Tape System

CA Vtape™ Virtual Tape System Peer-To-Peer Option

CA, one of the largest suppliers of mainframe storage management solutions for over 30 years, delivers integrated, intelligent storage solutions, helping z/OS-enabled businesses to reduce costs, mitigate risk, improve control and align business requirements with it.

Overview

Storage administrators are continually asked to “do more with less” and face the challenge of managing more storage in the future with no added headcount. They are chartered to implement process efficiencies to safeguard data while continually optimizing resources and improving utilization.

“Top of Mind” challenges include:

- Aligning IT with the Business
- Operational Efficiency
- Business Continuity
- Compliance
- Investment Protection

Benefits

CA Storage Management Solutions for z/OS Mainframes solve the issue of manually managing complex storage environments, maximizing existing resources and ensuring protection and high-availability of application business information.

CA solutions effectively manage growth, and safeguard assets by delivering automation flexibility, ease of use, control and data integrity. You can easily optimize storage resources plus control storage costs and maintain desired service levels.

The CA Advantage

CA continues to simplify and unify IT management and help you harness the potential of the mainframe platform while masking its complexity.

For more than 30 years, mainframe data centers have relied upon — and continue to rely upon — CA’s storage management expertise to manage, protect and secure their environments, and CA is poised to lead the delivery of mainframe storage management software for years to come.

CA Storage Management Solutions for z/OS Mainframes

CA Storage Management Solutions for z/OS Mainframes provide an intelligent approach to storage management by providing the tools necessary to identify and classify your storage assets, define your unique best practices for administering them and take the necessary action to manage them effectively.

CA Storage Management Solutions for z/OS Mainframes manage data, information and its supporting infrastructure simply and efficiently, enabling companies to align information to ever-changing business needs.

Challenge: Managing Storage to Support Business Priorities

Mainframe processing power is being shipped at record levels. It is no longer acceptable to just “keep up” with technology: the stress of today’s business challenges have redefined the role of IT professionals to become integral parts of the business rather than just a service organization.

ALIGNING IT WITH BUSINESS Today more than ever, there is a real need to manage risk, improve service, manage costs and align IT investments with the needs of the business. Ongoing storage initiatives must effectively manage stored data and information and its supporting infrastructure simply and efficiently, enabling the close alignment of storage to ever-changing business requirements.

OPERATIONAL EFFICIENCY Improving operational efficiency while managing growing z/OS data with level or decreased headcount is paramount to the success of today’s storage management staff. End users must continually look for new ways for help through ease-of-use, common look and feel, common services for disparate z/OS storage products and storage automation — orchestrating essential storage processes.

BUSINESS CONTINUITY Today’s storage administrator’s contribution to Business Continuity is about managing complex storage environments, maximizing use of existing storage resources and ensuring protection and high-availability of applications and business information and ensuring the data is accessible no matter where it resides in the storage hierarchy or geography.

COMPLIANCE Compliance expansion continues as corporate policies and government regulations extend to meet the needs of today’s business environment, the need to deliver effective management of business information and data to meet regulations and corporate policies grows daily.

INVESTMENT PROTECTION Investment protection is a constant challenge as good management practices require that you minimize future costs by building on prior investments and eliminate the need to replace current IT infrastructure. Desirable practices include using vendor-neutral software that is efficient, open, easy to install, configure and use and runs on any z/OS supported hardware.

Strategy: Automated, Integrated z/OS Storage Management, “Ready for Business”

CA Storage Management Solutions for z/OS Mainframes are flexible and modular, changing as business needs change so there is no need to “rip and replace” as processes, applications and users are added and the value of information and data evolves. Effective Storage Management assumes continual evaluation and enables organizations to manage the storage operations and infrastructure to meet the needs of the changing business environment.

Our storage management solutions support enterprise-wide storage hardware, operating systems, applications and systems preferences. The CA storage solution consists of integrated products that minimize risks to data and optimize the storage infrastructure investment. With CA storage solutions, organizations can become more proactive, managing and protecting information and data in a way that optimizes storage operations and infrastructure. CA ensures the availability of information and data while maximizing the IT infrastructure investment which results in reduced costs.

Maximize Your Investment in z/OS Storage

CA Storage Management Solutions for z/OS Mainframes deliver data availability and resource management to optimize storage assets and help maximize your investment in storage hardware and software. The comprehensive solutions are easy-to-use and deliver storage management automation for essential storage processes.

PRODUCT	FUNCTION	FEATURES	BENEFITS
CA 1 Tape Management and CA TLMS Tape Management	Automated Tape Management and Protection for z/OS Tape Data Sets and Volumes	<ul style="list-style-type: none">• Windows graphical management interface increases staff productivity• Real-time processing at every tape I/O helps protect tape data sets• Real-time tape data set expiration reduces TMC maintenance• Unicenter® Service Desk problem tickets automatically generated• Distributed tape support offers an enterprise view of tapes	Automates day-to-day tape management tasks to save time and money while providing comprehensive protection against the inadvertent destruction of tape files. It can be integrated with other enterprise management functions, including security, scheduling, restart/rerun, automated operations and output management.

PRODUCT	FUNCTION	FEATURES	BENEFITS
CA Allocate DASD Space and Placement	Allocation Control and X-37 Protection of All z/OS Data Sets	<ul style="list-style-type: none"> • Enforces allocation policies • Central point of control to manage the allocation of all data sets • Simplifies the administration of allocation rules • Reduces failures due to allocation errors • Interfaces with all mainframe security systems • Windows graphical management interface increases staff productivity 	Optimizes storage resources via automated allocation standards that direct data sets (both VSAM and non-VSAM) to the correct tape or volume within a storage group and redirects inaccurate allocations for proper grouping, optimum space or best-fit usage. Plus, X-37 resolution prevents application failures, saving you time, resources and money.
CA Disk Backup and Restore	Backup, Recover, Archive, and Restore for all z/OS Data Sets	<ul style="list-style-type: none"> • Gives you full control over critical z/OS storage tasks including: <ul style="list-style-type: none"> - Backup - Archival to disk or tape - Restore - Volume recovery - Disaster recovery - Online or hard copy reporting - Data migration - PDS compression - Idle space release • Windows graphical management interface increases staff productivity 	Helps you effectively manage storage growth by delivering automation flexibility, ease of use, control and data integrity. It helps you optimize your storage resources plus controls storage costs and maintain desired service levels by archiving infrequently used data sets to less expensive storage media.

PRODUCT	FUNCTION	FEATURES	BENEFITS
CA Tape Encryption	Dynamic Encryption and Key Management for z/OS Tapes	<ul style="list-style-type: none"> • Transparent encryption and decryption for any application • Automated, Full life cycle key management • Secured Tape Exchange and Portability for Business to Business (B2B) • Exploits zIIP Processors • DFSMS ACS-based selection, or by utilizing your security system of choice (CA ACF2™ for z/OS, CA Top Secret® for z/OS or IBM RACF), or a combination of both 	Ultimate control and implementation flexibility makes CA Tape Encryption the most cost-effective way to implement your cryptography strategy. Safeguards personal and business-critical information from unauthorized access, avoids the potential cost of fines, avoids internal and external audit issues that force action to be taken in a very reactive manner, and public relations nightmare that ensues.
CA Tape Encryption Key Manager	Consolidates and Automates Full Life Cycle Key Management Across Multiple Vendors and Tape Encryption Solutions	<ul style="list-style-type: none"> • Cross-Platform Support lets you manage encryption keys regardless if mainframe or distributed • Fully supports NIST standards; document NIST 800-57, "Recommendation for Key Management." • Interfaces with all z/OS external security systems 	Implementing 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.

PRODUCT	FUNCTION	FEATURES	BENEFITS
CA Vtape Virtual Tape System	Software Virtual Tape for z/OS Tapes	<ul style="list-style-type: none"> • Instant tape access by redirecting tape mounts to mainframe DASD • Relieves chronic tape under-utilization • Improved throughput for applications processing • Easily implemented, no additional hardware to install • Scalable — dynamically add cache upon demand • Exploits zIIP Processors 	Improves tape utilization and processing performance plus maximizes current hardware investments, eliminates or defrays hardware purchases, and reduces floor space.
CA Vtape Virtual Tape System Peer-To-Peer Option	Real time tape mirroring and immediate sharing of virtual tape volumes to Disaster Recovery or remote sites	<ul style="list-style-type: none"> • Share Virtual Volumes within or between a Sysplex, even if using different tape management systems • Exploit existing infrastructures using inexpensive TCP/IP (IPv4 or IPv6) instead of expensive channel extenders. • Windows graphical management interface increases staff productivity 	<p>Reduce Tape TCO costs for hardware, vaulting, shipping, and handling.</p> <p>Enables “tape-less” processing.</p> <p>Provides near instant recovery of Virtual Tape data without the need for expensive DASD mirroring options.</p>

PRODUCT	FUNCTION	FEATURES	BENEFITS
CA Vantage Storage Resource Manager	Centralized Cross-Platform Data Storage Management	<ul style="list-style-type: none"> • Centralized management of critical z/OS storage resources • Automation enhances productivity • Optimized capacity planning through trending and forecasting • Instant access to storage information through extensive reporting • Proactive, flexible report distribution including Web publishing • Integrates with solutions from CA and 3rd party vendors • Windows graphical management interface increases staff productivity 	Centrally manages complex storage environments by helping ensure critical storage assets are fully optimized, data is protected, and eliminates application outages. Proactive policy-based exception management automates routine manual functions to increase personnel productivity and improve service levels.

The CA Advantage

The combination of proven, robust technologies into an integrated, automated and easy-to-manage set of features and functions makes CA Storage Management Solutions for z/OS Mainframes uniquely aligned with the strategies for business goals, operational efficiencies compliance and investment protection of almost every z/OS enterprise.

Beyond z/OS Storage Management: Enterprise IT Management

CA Storage Management Solutions for z/OS Mainframes are an important part of CA's overall approach to transforming 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.

Our CA Support global network of people, systems and services 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.

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 data protection and recovery, without disrupting operations or exceeding budgetary and resource constraints
- 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 for z/OS Mainframes. 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.

To learn more, and see how CA Storage Management Solutions for z/OS Mainframes can enable your organization to unify and simplify IT management for better business results, visit ca.com/mainframe/storage or call 1-877-246-3674.

CA (NYSE: CA), one of the world's leading independent, enterprise management software companies, unifies and simplifies complex information technology (IT) management across the enterprise for greater business results. With our Enterprise IT Management vision, solutions and expertise, we help customers effectively govern, manage and secure IT.

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Learn more about how CA can help you transform your business at [ca.com](https://www.ca.com)

