

Thales TCT and Dell Technologies: Delivering Secure and Efficient Storage



Simple, agile, and secure

Key benefits:

- Achieve compliance with data security regulatory mandates for data-at-rest by securing files with encryption, access controls and data access audit logging
- Secure data while maximizing flash storage efficiencies and performance through key features such as compression and deduplication
- Simplify data security administration with centralized key management, encryption and access policies
- Easily implement privileged access management controls at a granular level that enable administrators to work as usual, (secure, control, manage and monitor privileged access to critical assets), while never exposing the sensitive data

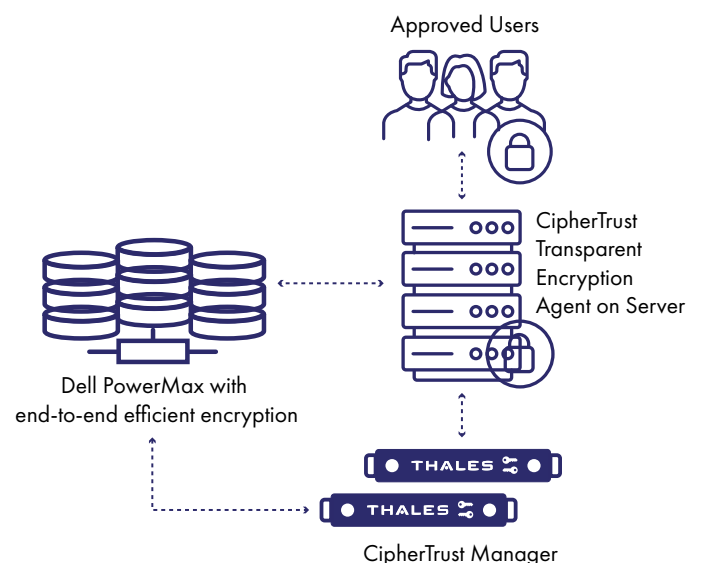
Encryption and efficient storage

The problem: Enterprises need fast, efficient storage that's secure

In today's reality of enterprise digital transformation, the exploding volume of data being created and utilized is increasing demands on every organization's ability to control storage costs, expand capacity, and maintain or increase agility. Flash storage has transformed enterprise storage in data centers, offering unique characteristics that enable higher performance, more efficiency, increased agility, and greater reliability. However, securing enterprise data has often required a tradeoff with storage efficiency.

The challenge: Delivering efficient data storage that's secure

Dell PowerMax storage arrays offer end-to-end NVMe, storage class memory, up to 350GB per second bandwidth and 99.9999% availability, for an ideal enterprise storage solution that serves as a catalyst for both IT and business transformation. However, as data grows exponentially, the need to secure sensitive data becomes more acute. Data encryption is the most effective mechanism for securing sensitive data, but until now encryption and storage efficiency technologies like data compression and deduplication have been mutually exclusive.



Thales and Dell Technologies deliver efficient secured storage

Dell PowerMax changes the game for data storage. It is designed with industry standard, end-to-end NVMe storage. Dedupe and compression, offered standard on PowerMax, adds extreme efficiency to your data center, even as it scales. PowerMax enables datacenters to consolidate workloads and modern, real-time analytics apps on a single array.

The combination of PowerMax and CipherTrust Transparent Encryption for Efficient Storage, delivers the speed, efficiency and agility of all NVMe flash storage with the security and integrity of data encryption. PowerMax end-to-end efficient encryption can be encrypted, compressed, and deduplicated, setting a benchmark for efficient secured storage. With PowerMax with efficient encryption powered by CipherTrust Transparent Encryption for Efficient Storage, organizations no longer need to make the choice between data security and storage efficiency.

Why use CipherTrust Transparent Encryption for Efficient Storage and CipherTrust Manager with Dell PowerMax

CipherTrust Transparent Encryption for Efficient Storage provides a high degree of security for data stored on PowerMax by encrypting data while retaining critical storage efficiencies, such as deduplication and compression. Access policies are set and encryption keys are defined by CipherTrust Manager, which utilizes KMIP, for centralized key management. Offered as the PowerMax efficient encryption option, Thales CipherTrust Transparent Encryption for Efficient Storage enables the PowerMax storage array to offer both encryption and dedupe/compression.

CipherTrust Transparent Encryption and CipherTrust Manager include the following key features:

- Non-intrusive and easy to deploy. CipherTrust Transparent Encryption agents are deployed on servers at the file system or volume level and support both local disks as well as cloud storage environments, such as Amazon S3 and Azure Files, enabling encryption and access control without requiring changes to applications, infrastructure, systems management tasks or business practices.
- Thales CipherTrust Transparent Encryption for Efficient Storage solution employs strong, standard-based encryption protocols and meets FIPS 140-2 Level 1, 2, and 3. Level 3 provides the strongest protection and is a must-have for certain verticals like finance, Healthcare, Government, etc.
- The solution provides a single, centralized management interface for cryptographic keys and applications.
- It offers high availability and standards-based enterprise encryption key management

- It continuously enforces policies that protect against unauthorized access by users and processes and creates detailed data access audit logs of all activities.
- It applies granular, least-privileged user access policies that protect data from external attacks and misuse by privileged users.
- CipherTrust Manager supports KMIP versions 1.0-1.4 enabling secure key management for native encryption solutions.

About Dell Technologies

Dell Technologies (NYSE:DELL) helps organizations and individuals build their digital future and transform how they work, live and play. The company provides customers with the industry's broadest and most innovative technology and services portfolio for the data era.

About Thales Trusted Cyber Technologies

Thales Trusted Cyber Technologies, a business area of Thales Defense & Security, Inc., protects the most vital data from the core to the cloud to the field. We serve as a trusted, U.S. based source for cyber security solutions for the U.S. Federal Government. Our solutions enable agencies to deploy a holistic data protection ecosystem where data and cryptographic keys are secured and managed, and access and distribution are controlled.

For more information, visit www.thalestct.com