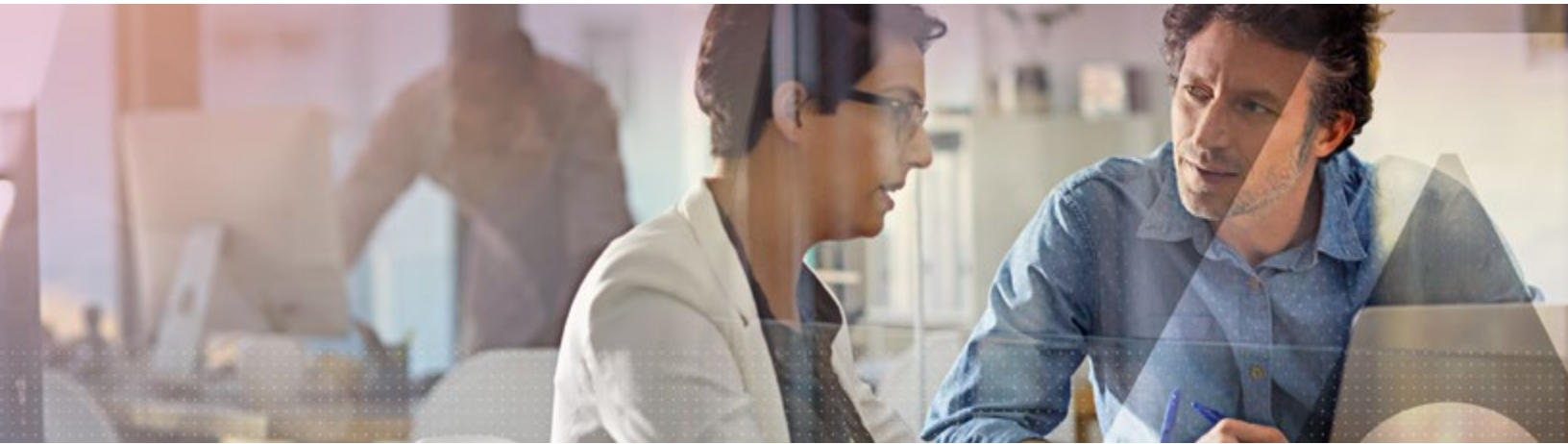


# Thales and Pure Storage

## Securing data in the cloud era



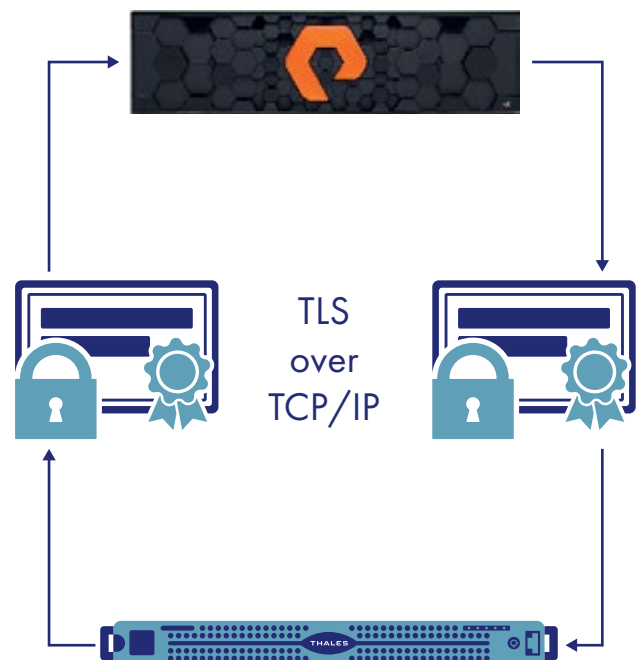
### Putting your data to work while assuring high security

- Provides an all-flash datastore for reliability and performance
- Supports the highest levels of business continuity with proven 99.9999% availability
- Protects data with robust encryption
- Supports KMIP for centralized and high assurance key management
- Complies with a FIPS 140-2 L3 root of trust

### The Problem: Enterprises need reliable and scalable storage that adapts to their needs while assuring high data security

In today's digital world, data can be an organization's most valuable asset. Getting the most out of this asset requires a data storage platform that's easy to use, operates efficiently, and is seamless to upgrade. Flash storage, and in particular, Pure Storage FlashArray are the solution of choice here. Pure delivers a combination of high speed, maximum agility, ease of operations, and real-time analytics. However, no storage solution is immune to data security concerns.

### Purity<sup>FA</sup> KMIP Integration



Signed TLS/SSL certificates assure authenticity over the network



## The Challenge: Delivering fast, highly available, scalable, and manageable enterprise storage while protecting sensitive data without impacting performance

Pure Storage FlashArrays provide an ideal enterprise storage solution. However, as data footprint grows exponentially, ensuring the security of data is critically important. Data encryption addresses these security needs, along with keys that lock and unlock the sensitive data. However, efficiently and securely managing the large number of keys required can be challenging, due to factors such as data being put to multiple uses on multiple servers and policies requiring periodic key refresh. The use of a dedicated centralized key management platform can alleviate problems by assuring security without impairing performance.

# Pure Storage and Thales Securely Deliver Fast, Agile, and Intelligent Data Services

## The Solution: Pure Storage FlashArray and Vormetric Data Security Manager by Thales

The Pure Storage FlashArray family delivers all-flash power and reliability with advanced software-defined capabilities for every need and every budget, from the entry-level FlashArray// M10 to the new FlashArray//X – the first tier 1 100% NVMe, enterprise-class all-flash array. With FlashArray, organizations can achieve effortless enterprise business continuity with ActiveCluster, included with their Evergreen subscription. They will also value proven 99.9999% availability and support that has industry leading customer satisfaction levels. Whether accelerating a single database, consolidating applications with virtualization, virtualizing desktops, or providing the foundation for an all-flash cloud, the rich data services and effortless administration of FlashArray makes enterprise storage something organizations simply don't need to worry about anymore.

Pure Storage FlashArrays can manage data encryption keys internally however, many organizations mandate more robust security such as centralized key management and separation of keys from the array. For this additional security, Pure Storage FlashArrays can utilize the Vormetric Data Security Manager (DSM) from Thales to provide a full range of centralized services for key management and role separation. Utilizing the Key Management Interoperability

Protocol (KMIP) standard, DSM provides features such as consistent policy enforcement, ensuring that encryption and key management are uniform across an entire organization. The combined solution establishes a certificate-based chain of trust between the FlashArrays and the key management server, providing an efficient, cost-effective, and comprehensive solution that meets the most stringent security requirements, including robust FIPS 140-2 Level 3 certified key management.

## Why Use Vormetric DSM with Pure Storage FlashArray?

The Vormetric DSM strengthens and simplifies the security of stored data by streamlining the management of encryption keys. Vormetric DSM uses certificates to authenticate for system level security. New encryption keys are generated then uploaded to the DSM.

Security keys can be instantly reprogrammed to meet sitespecific security policies. Security mechanisms enable compliance with data-at-rest encryption requirements set forth in HIPAA, PCI DSS and SOX standards among others.

Using Vormetric DSM with Pure Storage:

- Provides a single, centralized management plane for cryptographic keys and applications
- Offers high availability and standards-based enterprise encryption key management using KMIP
- Centralizes third-party encryption keys and securely stores certificates
- Audits and reports on keys, as well as logs important security intelligence
- Implements a two-factor authentication mechanism

The consolidation of enterprise encryption key management delivers consistent policy implementation between systems and reduces training and maintenance costs.

## About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

## About Pure Storage

The Pure Data Cloud – including FlashArray and a converged infrastructure offering with Cisco, FlashStack, drives business and IT transformation with solutions that are effortless, efficient and evergreen. Vormetric integration with Pure Storage FlashArray enables key storage on an external device, simplifying and centralizing key management.

For more detailed technical specifications, please visit [www.thalescpl.com](http://www.thalescpl.com) or [www.purestorage.com](http://www.purestorage.com)

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