

Product Brief

# CipherTrust Data Security Platform

Take Control of Your Data Universe.

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**THALES**  
Building a future we can all trust

# CipherTrust Data Security Platform

Discover, protect and control sensitive data anywhere  
with next-generation unified data protection

Discover

Protect

Control



**Rising cyber threats, evolving regulations and increasing operational complexity are challenging organizations to rethink protection – securing data as it moves from networks to applications and the cloud. Because, when perimeter network controls and endpoint security measures fail, protecting your data is the ultimate line of defense.**

With security at the heart of everything we do, Thales focuses CipherTrust Data Security Platform on securing your critical data.

Significantly reducing risk across your business, CipherTrust provides a complete data-centric solution. Encryption and key management protect your data from unauthorized access in the event of an attack. The platform integrates seamlessly with an unparalleled ecosystem of partners – with pre-built connectors and integrations saving you from needing to develop your own. And, with one UI on a single console, you can unify your entire data security estate, reducing complexity and giving you complete control.

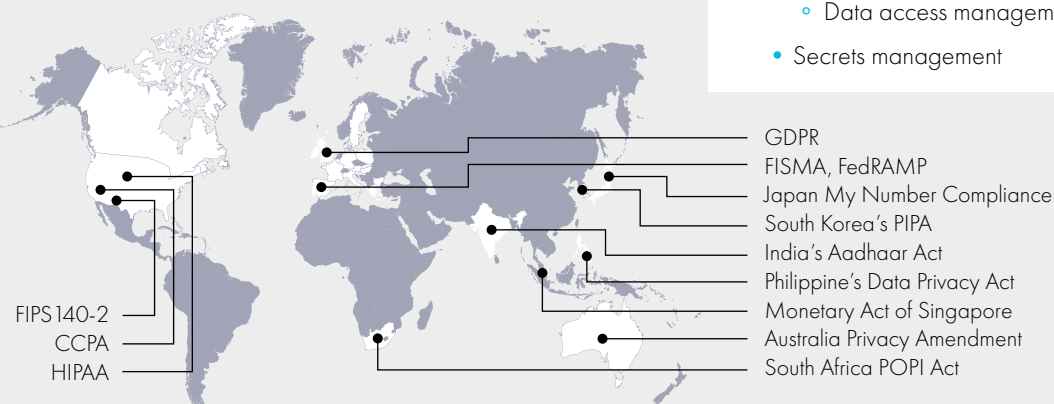
No matter where your data resides, or where you are in your digital transformation journey, CipherTrust puts you in control.

## Key Features

- Centralized management console
- Monitoring and reporting
- Data discovery and classification
  - Risk analysis with data visualization
- Proactive protection integrated with data discovery and classification
- Data protection techniques
  - Transparent encryption for files, databases and big data
  - Application-layer data protection
  - Format-preserving encryption
  - Tokenization with dynamic data masking
  - Static data masking
  - Privileged user access controls
- Centralized enterprise key management
  - FIPS 140-2 compliant enterprise key management
  - Unparalleled partner ecosystem of KMIP integrations
  - Multi-cloud and database encryption key management
- Ransomware protection
  - Process monitoring
  - Data access management
- Secrets management

## Compliance

CipherTrust Data Security Platform supports global security and privacy regulations, including:



- ISO/IEC 27002:2013
- PCI DSS
- SOX/GLBA
- NIST 800-53 rev.4





## Key Benefits

Protect structured and unstructured data-at-rest across your organization – in files, volumes, databases and applications on Windows, AIX and Linux OS's, across physical/virtual servers and in containers, cloud and big data environments.



### Simplify Data Security

Discover, protect and control sensitive data anywhere with next-generation unified data protection. The CipherTrust Data Security Platform (CDSP) simplifies data security administration with a centralized management console that equips organizations with powerful tools to discover and classify sensitive data, combat external threats, guard against insider abuse, and establish persistent controls, even when data is stored in the cloud or in any external provider's infrastructure for on-prem and cloud-based data. Organizations can easily uncover and close privacy gaps, detect and block ransomware, manage secrets, prioritize protection, and make informed decisions about privacy and security mandates before starting or advancing a digital transformation to fundamentally change how the organization operates and delivers value to customers.



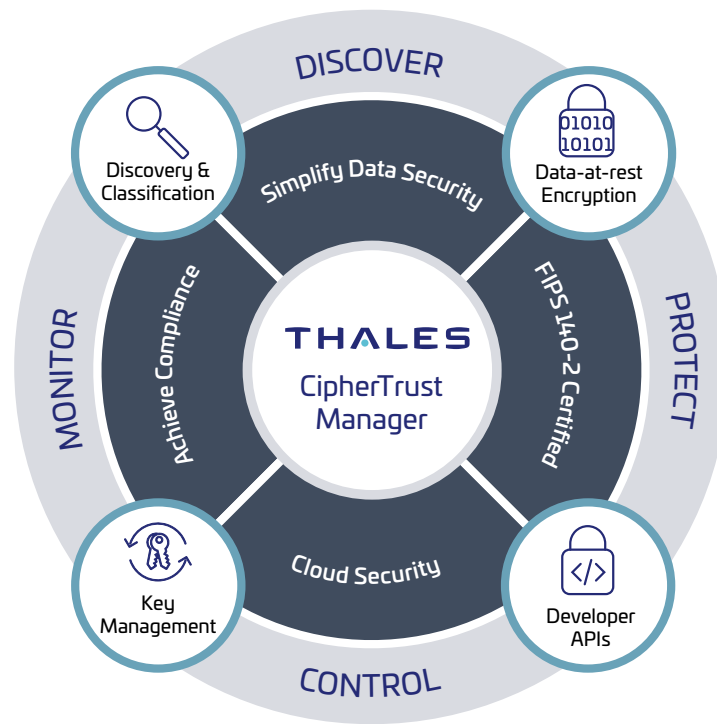
### Accelerate Time to Compliance

Regulators and auditors require organizations to have control of regulated and sensitive data along with the reports to prove it. CDSP provides pervasive data security and privacy solutions such as data discovery and classification, ransomware protection, secrets management, encryption, access control, audit logs, tokenization, key management and secrets management. Data security controls can be added to new deployments or in response to evolving compliance requirements. The centralized and extensible nature of the platform enables new controls to be added quickly through the addition of licenses and scripted deployment.



### Secure Cloud Migration

The CipherTrust Data Security Platform offers advanced encryption, centralized secrets management and centralized key management solutions that enable organizations to safely store sensitive data in the cloud. The platform offers advanced multi-cloud Bring Your Own Encryption (BYOE) solutions to avoid cloud vendor lock-in and ensure the data mobility to efficiently secure data across multiple cloud vendors with centralized cloud-agnostic encryption key management. Organizations that cannot bring their own encryption can still follow industry best practices by managing keys externally using CipherTrust Cloud Key Management (CCKM). CCKM supports Bring Your Own Key (BYOK) and Hold Your Own Key (HYOK) use-cases and streamlines Native key management across multiple cloud infrastructures and SaaS applications. CipherTrust Secrets Management powered by Akeyless Vault provides enterprise-ready secrets lifecycle management including automatic processes for creating, storing, rotating, and removing all types of secrets.



## CipherTrust Data Security Platform

CipherTrust Data Security Platform (CDSP) consists of CipherTrust Manager (CM) and a set of connectors. CM can be deployed on premises, in cloud or hybrid environments, or subscribed to as a service.

### CipherTrust Manager

As the central management point for CDSP, CM simplifies key lifecycle management tasks for all of your encryption keys. CM manages secure key generation, backup/restore, clustering, deactivation, deletion, and access to Connectors and partner integrations that support a variety of use cases (e.g., data discovery, data-at-rest encryption, enterprise key management, and cloud key management). CM supports role-based access control to keys and policies, robust auditing and reporting, and offers development- and management-friendly REST APIs. CM is available in both physical and virtual form factors. Hardware and virtual appliances can leverage embedded Luna Network HSMs or select cloud HSMs to enable FIPS 140-2 Level 3 highest level root of trust.

### CipherTrust Data Discovery and Classification

CipherTrust Data Discovery and Classification locates regulated data, both structured and unstructured, across the cloud, big data, and traditional data stores. A single pane of glass delivers understanding of sensitive data and its risks, enabling better decisions about closing security gaps, compliance violations and prioritizing remediation. The solution provides a streamlined workflow all the way from policy configuration, discovery, and classification to risk analysis and reporting, helping to eliminate security blind spots and complexities.

### CipherTrust Transparent Encryption

CipherTrust Transparent Encryption (CTE) delivers data-at-rest encryption, privileged user access controls and detailed data access audit logging. Agents protect data in files, volumes

and databases on Windows, AIX and Linux OS's across physical and virtual servers in cloud and big data environments. The Live Data Transformation extension is available for CipherTrust Transparent Encryption, providing zero-downtime encryption and data rekeying. In addition, security intelligence logs and reports streamline compliance reporting and speed up threat detection using leading security information and event management (SIEM) systems.

### CTE Ransomware Protection

CTE-RWP monitors behaviors, watching for suspicious activities and blocks processes when ransomware indicators are detected. Using behavior monitoring and data analytics rather than malware signature databases, CTE-RWP protects systems from zero-day attacks even when disconnected from a network. Exceptionally easy to deploy and manage.

### CipherTrust Secrets Management powered by Akeyless Vault

CipherTrust Secrets Management (CSM) is a state-of-the-art, enterprise-grade secrets management solution, powered by the Akeyless Vault Platform. CSM protects and automates access to secrets across DevOps tools and cloud workloads including credentials, certificates, API keys and tokens. DevSecOps can quickly and easily integrate secrets management into multi-cloud applications to secure and speed-up continuous integration and continuous delivery processes. Exceptionally easy to deploy and manage.

### CipherTrust Intelligent Protection

CipherTrust Intelligent Protection enables organizations to rapidly discover and classify data based on sensitivity, vulnerability, and risk profiles and pro-actively protect at-risk data using encryption and access controls. It integrates CipherTrust Data Discovery and Classification with CipherTrust Transparent Encryption to improve operational efficiencies, accelerate time to compliance, and proactively close security gaps.



### DevSecOps-Friendly

DevSecOps teams can now transparently protect sensitive data in cloud applications and file stores without modifying legacy or cloud-native applications. See CipherTrust Data Protection Gateway (DPG) and CipherTrust Transparent Encryption for Kubernetes (CTE-K8s). To simplify deployment of applications integrated with key management capabilities and automate development and testing of administrative functions, CipherTrust Manager (CM) offers REST interfaces, in addition to KMIP and NAE-XML APIs. CM also has its own REST API Playground that allows customers to experiment with administration, key management, user management, and crypto operations.

### CipherTrust Tokenization

CipherTrust Tokenization is offered both vaulted and vaultless and can help reduce the cost and complexity of complying with data security mandates such as PCI-DSS. Tokenization replaces sensitive data with a representative token, so that the sensitive data is kept separate and secure from the database and unauthorized users and systems. The vaultless offering includes policy-based dynamic data masking. Both offerings make it easy to add tokenization to applications.

### CipherTrust Database Protection

CipherTrust Database Protection solutions integrate data encryption for sensitive fields in databases with secure, centralized key management and without the need to alter database applications. CipherTrust Database Protection solutions support Oracle, Microsoft SQL Server, IBM DB2 and Teradata databases.

### CipherTrust Key Management

CipherTrust Key Management delivers a robust, standards-based solution for managing encryption keys across the enterprise. It simplifies administrative challenges around encryption key management to ensure that keys are secure and always provisioned to authorized encryption services. CipherTrust Key Management solutions support a variety of use cases including:

- **CipherTrust Cloud Key Management (CCKM)** streamlines Bring Your Own Key (BYOK), Hold Your Own Key (HYOK) and Native key management for Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure 1, Oracle Cloud Infrastructure (OCI) 1, Salesforce and SAP1. CCKM increases efficiency by reducing the operational burden – even when all of the cloud keys are native keys. Giving customers lifecycle control, centralized management within and among clouds, and visibility of cloud encryption keys, reduces key management complexity and operational costs.
- **CipherTrust TDE Key Management** supports a broad range of database solutions such as Oracle, Microsoft SQL, and Microsoft Always Encrypted
- **CipherTrust KMIP Server** centralizes management of KMIP clients, such as full disk encryption (FDE), big data, IBM DB2, tape archives, VMware vSphere and vSAN encryption

## Take Control of Your Data Universe

With protection our core capability, CipherTrust Data Security Platform protects your data wherever it resides - keeping your data safe and your organization compliant. And, with a unified and fully integrated approach to management, you'll radically simplify your entire data environment.

## About Thales

Today's businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world, rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security, identity & access management, and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.