Trusted Cyber Technologies

THALES
Building a future we can all trust

CipherTrust Data Security Platform

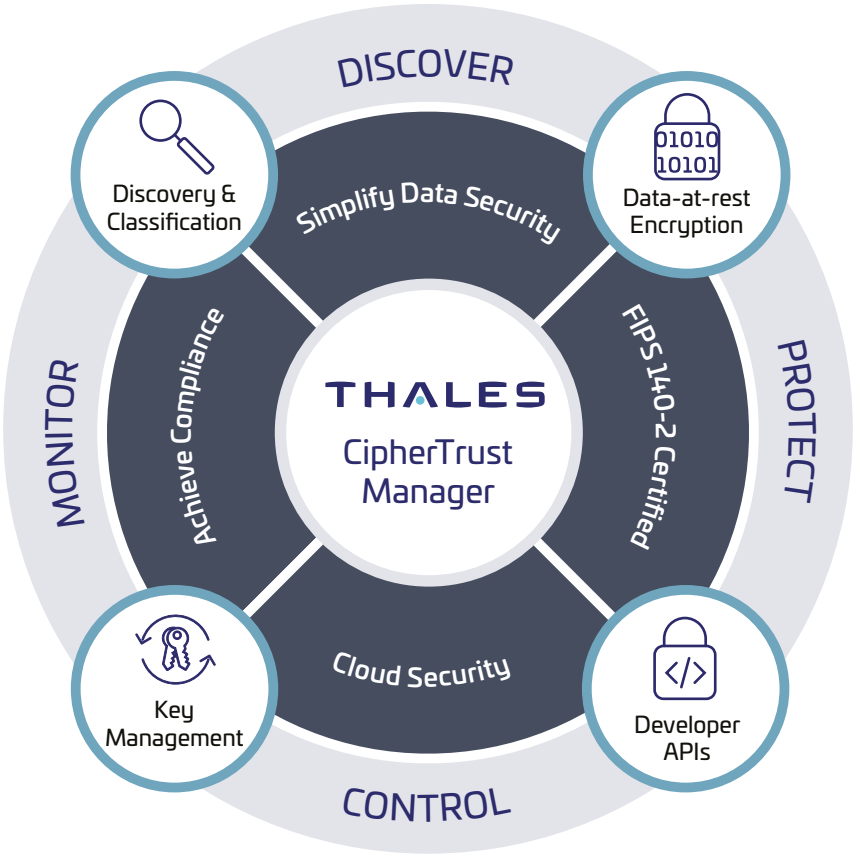
Discover, Protect and Control

As data breaches continue at alarming rates, securing sensitive data is critical to all organizations. In addition, organizations struggle to stay compliant with evolving global and regional privacy regulations, and securing the cloud in the face of accelerated adoption brought on by the new demand to support tremendous number of remote employees. IT security organizations seek a data-centric solution that secures the data as it moves from networks to applications and the cloud. When perimeter network controls and endpoint security measures fail, protecting data at rest is the last line of defense.

The CipherTrust Data Security Platform (CDSP) significantly reduces risk across your business. CDSP integrates centralized key management with data discovery, classification, data protection and granular access controls. CDSP decreases resources required for data security operations and compliance controls by simplifying data security, accelerating time to compliance, and securing cloud migration.

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 key management
  - Database encryption key management (Oracle TDE, bigdata, MS SQL, SQL Server Always Encrypted, etc.)



Compliance

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

- GDPR
- PCI DSS
- HIPAA
- SOX/GLBA
- CCPA
- FIPS 140-2
- FISMA, FedRAMP
- NIST 800-53 rev.4
- ISO/IEC 27002:2013

Key Benefits

- **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, 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 supports pervasive data security and privacy requirements such as data discovery and classification, encryption, access control, audit logs, tokenization and key 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 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 Data Security Platform Products

CDSP consists of CipherTrust Manager and a set of Connectors.

CipherTrust Manager

CipherTrust Manager (CM) is the central management point for the CDSP platform, providing data access and key policy management. CM is available in both physical and virtual form factors that are up to FIPS 140-2 Level 3 compliant. CipherTrust Manager simplifies key lifecycle management including key generation, rotation, destruction, import and export, provides role-based access control to keys and policies, supports robust auditing and reporting, and offers development- and management-friendly REST APIs. Hardware and virtual appliances can leverage embedded Thales TCT T-Series Luna Network HSMs, Token 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 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.

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 pro-actively close security gaps.

CipherTrust Application Data Protection

CipherTrust Application Data Protection delivers crypto functions such as key management, signing, hashing and encryption services through APIs, so that developers can easily secure data at the application server or big data node. The solution comes with supported sample code so that developers can move quickly to securing data processed in their applications. CipherTrust Application Data Protection accelerates development of customized data security solutions, while removing the complexity of key management from developer responsibility and control. In addition, it enforces strong separation of duties through key management policies that are managed only by security 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 sensitize 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 Manager** 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 Azure1, Oracle Cloud Infrastructure (OCI)1, Salesforce and SAP1. CCKM reduces key management complexity and operational costs by giving customers lifecycle control, centralized management and visibility of cloud encryption keys
- **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

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.

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