

# CipherTrust Protection for Teradata Database



## Secure your Teradata databases and big data environments

- Centrally manage encryption across your Teradata environments—including the Teradata database and Teradata Appliance for Hadoop
- Enforce granular controls to enable administrators to perform operational tasks, without accessing sensitive data in the clear
- Centrally manage encryption keys and policies
- Boost security without compromising the value of big data analytics
- Establish protections against cyberattacks and abuse by privileged users
- Reduce costs and administrative overhead relative to other data protection solutions for Teradata

**teradata.**

Thales enables your organization to guard against these risks with CipherTrust Protection for Teradata Database. The solution delivers fast, efficient and robust data-at-rest security capabilities in your Teradata environments, securing sensitive assets in both Teradata Database and the Teradata Integrated Big Data Platform.

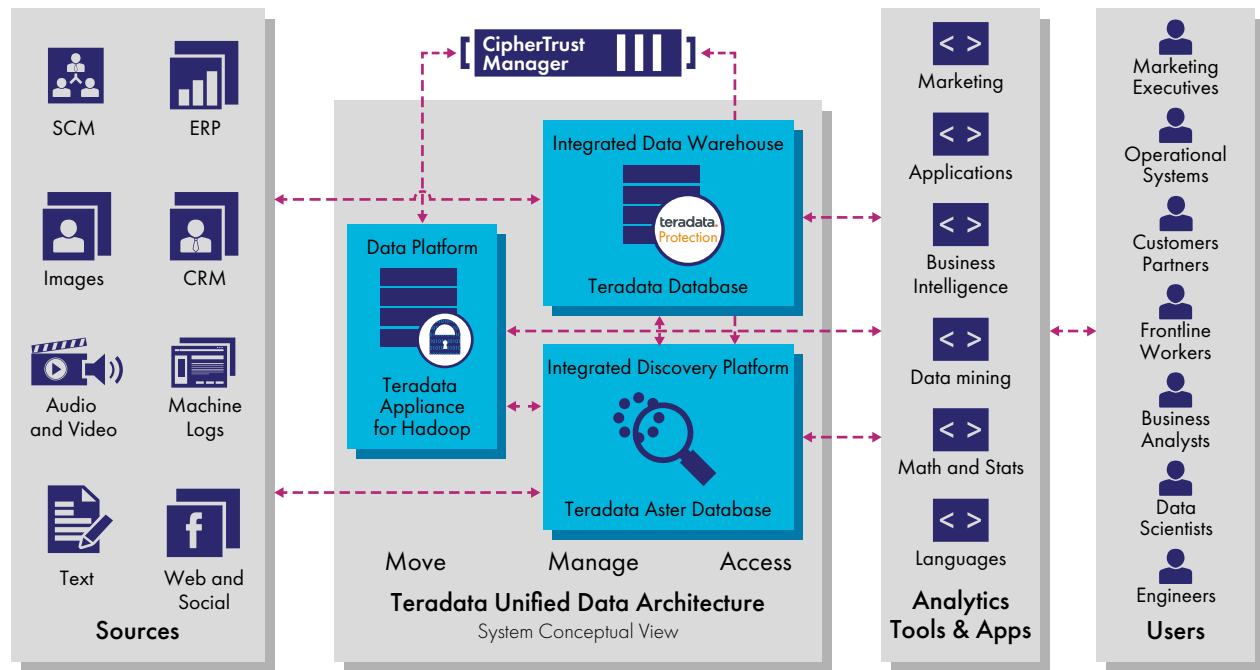
Adopting CipherTrust Protection for Teradata Database provides the following advantages:

## Strengthened security with minimized disruption and costs

CipherTrust Protection for Teradata Database simplifies the process of securing sensitive records, enabling encryption of specific fields and columns in Teradata databases. The solution also offers NIST-approved format-preserving encryption (FPE) capabilities, so you can encrypt sensitive records without altering their format or field schemas. Not only does this minimize the potential impact of encryption on associated applications and workflows, but it helps you avoid the increased storage requirements associated with conventional encryption approaches.

## Convenient integration via user-defined functions

CipherTrust Protection for Teradata Database integrates with Teradata with simple user-defined functions (UDF) for encryption and decryption. Both Cipher-Block Chaining (CBC) and format-preserving encryption (FPE) modes are available. Use of FPE enables dynamic data masking for decryption operations on a per-user basis. UDF instantiation is simplified with configuration files.



Teradata database and big data analytics solutions enable organizations to more fully leverage information to fuel improved decisions, products, services and business results. Teradata-powered environments can bring together a wide range of corporate data repositories—including those that contain sensitive assets. Without proper protections, sensitive assets can inadvertently be exposed by privileged administrators, or be the target of theft by malicious insiders and external attackers.

## Granular security controls

CipherTrust Protection for Teradata Database includes mechanisms for both black- and white-listing of users with granularity of each Teradata node and encryption or decryption operations. On each node, user administration can be either blacklist-centric: user names to block, or whitelist-centric: user names to permit access to a command with all others blocked.

## Centralized key and policy management

CipherTrust Protection for Teradata Database works seamlessly with the CipherTrust Manager, a hardened, FIPS-certified appliance for data protection policy administration and key storage. With the CipherTrust Manager, you can centrally manage keys and access policies for CipherTrust Protection for Teradata Database, other CipherTrust Data Security Platform solutions and third-party encryption products. With the CipherTrust Manager, you can manage keys and policies for CipherTrust Transparent Encryption, which can be used to protect your Teradata Appliance for Hadoop.

## Comprehensive data security platform

CipherTrust Manager supports a wide range of data security solutions including CipherTrust Tokenization with Dynamic Data Masking, CipherTrust Application Encryption, CipherTrust Batch Data Transformation, and CipherTrust Enterprise Key Management. The platform is cloud-friendly: you can deploy CipherTrust Protection for Teradata Database and all other platform products on premises or in public or private cloud environments.

## Learn more

Visit us at [cpl.thalesgroup.com](http://cpl.thalesgroup.com) to learn how our advanced data security solutions and services deliver trust wherever information is created, shared or stored.

## 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.