



# Protegrity and Teradata

## Find the Best Balance Between Business and Security Demands

Balancing data security and compliance demands with the day-in, day-out challenges of operating a business has always been a significant concern of organizations just like yours. But today, that balancing act has become more demanding than ever.

For starters, ever-changing regulatory requirements must be integrated with a company's own data security plan and processes. And the continued growth of the global market for stolen data has dramatically raised the stakes for defending against a major security breach.

What you need is a solution that best balances data security and compliance demands with your unique business needs, a solution that protects data while making it accessible for authorized users everywhere. You need a solution that operates across all platforms, that protects data, files and applications, tracks and reports, and simplifies compliance chores. That's exactly the kind of balance the partnership between Teradata Corporation, the global leader in enterprise data warehousing and analytic solutions, and Protegrity, a leading innovator of data security management, provides.

### Maximum Security. Minimal Impact.

Protegrity has optimized its data security solution to work specifically in Teradata® environments. The result is a complete enterprise data security platform, a platform that enables you to select, deploy, and easily manage a unified set of technologies that protect sensitive information from acquisition to deletion across your entire organization. It's a solution that lets you maximize security with minimal impact on your day-to-day business operations. That's because it has been designed to fully support your efforts to move toward a proactive risk-adjusted security strategy.

The Teradata® and Protegrity data security system secures data at the application, file and database levels, driven by an enterprise's own security policies. The system is comprised of core components designed to ease data security management and measurably simplify regulatory compliance: Protegrity Enterprise Security Administrator delivers security alerting, reporting, and auditing across the enterprise. Protegrity Data Protection System provides encryp-

tion, masking, monitoring, and hashing for applications, databases, and files.

The Protegrity Data Security Platform fully supports enterprises in their drive towards proactive risk-adjusted data security strategies in order to achieve the right balance between business needs and security/compliance demands. The solution offers a range of protection methods you can deploy individually or in combination to best match your business requirements. It delivers high performance and scalability across all platforms and databases and provides strong patented key management that makes sure your data is secure today and easily recovered from your archives tomorrow.

### Comprehensive Data Encryption

Designed to leverage Teradata's parallelism and scalability, the solution also provides comprehensive data encryption and a centralized point for encrypting all your sensitive information. In addition to using Teradata-specific data type, the solution minimizes character conversion overhead, improving performance in the encryption/decryption of data. The solution also:

- Supports multiple cryptographic algorithms and key strengths.
- Automates the process of converting clear text data to cipher text.
- Provides additional access controls to protect sensitive information (even the DBA can't see unencrypted data unless specifically authorized by the Security Manager).
- Includes additional auditing separate from database audit logs (such as the Access Log).

## Protegrity and Teradata in a Snapshot

Protegrity USA, Inc. is a global security software leader providing end-to-end data security solutions. Many leading organizations use Protegrity to protect their most sensitive information. With the company's Data Security Platform, organizations can ensure the protection of their sensitive data and enable compliance for PCI-DSS, HIPAA and other data security requirements. For more information, visit [www.protegrity.com](http://www.protegrity.com).



Teradata, the world's largest company solely focused on enterprise data warehousing and analytic solutions, provides powerful solutions for companies of all sizes. Through innovation, consulting services, technology, and industry-specific applications, our customers are outpacing their competition with enterprise agility.

## A Combination of Security, Scalability, and Performance

The solution's software architecture enables the central management of security policy from one administration console, Protegrity Security Manager, and enforces policy at the database-column level. Optimized for the Teradata environment, it utilizes all available parallel functionality, executing at the node and AMP level, scaling with your environment.

## The "Key" to Data Security

The data security solution includes a patented key management system that manages encryption key lifecycles across all protection points and platforms everywhere in your enterprise. It's a comprehensive key management system designed for highly secure systems. It is easy to maintain and fully integrates with standard disaster recovery and backup procedures. You can choose to deploy it with a Hardware Security Module (HSM) for an additional layer of protection. You can also split the master key into distinct sub-components, as best practices and regulations such as PCI require.

## Centralized Security Policy Management

The Teradata and Protegrity solution provides additional separation of duties through a Security Manager interface that lets you create and maintain security policies and audit trail reporting from a centralized point. The Security Manager:

- **Defines security policy** – clearly spotlights what information needs to be protected, who has access to this information, when and how it should be accessed, and from which machines and/or applications it can be accessed. It also

gives you the capability to restrict viewing access of sensitive data from both security and database administrators.

- **Manages encryption keys** – provides the capability to centralize all key management tasks on a single platform and effectively automate key management administration, including an automated and secure mechanism for key rotation, replication, and backup.
- **Monitors and reports on policy** – delivers tamper-proof auditing that tracks all authorized and unauthorized attempts to access protected data as well as any changes to security policies. It even tracks activities of the database administrator (DBA) with respect to sensitive data, and provides complete audit reports.

## Unparalleled Protection

No other solution available anywhere provides you with the level of integration and optimization. It's a complete data protection platform designed to meet your total enterprise needs. And it offers you a wealth of built-in business benefits, everything from centralized management and a comprehensive data security management toolset to policy-based solutions and a focus on easing compliance chores across your entire organization. Features include:

- **Format Controlling Encryption:** retains the original format, on a character-by-character basis, of encrypted data, putting an end to the data re-formatting and database schema changes required by other encryption techniques.
- **Data Usage Monitoring:** allows an enterprise to monitor selected lower-risk data in order to understand exactly how

it is being used and who is accessing it. Data Usage Monitoring can also be used as an easy-to-deploy, effective first step in the roll out of a comprehensive data security strategy and helps enterprises that are refining their security processes to build targeted, highly effective access control policies.

- **Policy-Based Masking:** provides the ability to mask selected parts of a sensitive asset. An enterprise's security policies determine whether a recipient should receive specific information in clear text or partially obscured, giving security officers highly granular control over how users can view sensitive assets. Implemented at the database level rather than application level, policy-based Data Masking provides a consistent level of security across the enterprise without interfering with business operations and greatly simplifies data security management chores.

That's why the solution has already been successfully installed and used at some of Teradata's largest customers, many with complex enterprise environments across a variety of market sectors such as finance, insurance, healthcare, retail, travel and transportation.

## For More Information

To find out more about how the Teradata and Protegrity data security solution can help you find the right balance between compliance and business demands so you can continue to grow your operations, contact your local Protegrity representative or visit [Protegrity.com](http://Protegrity.com).



Protegrity is the leading global software company providing innovative end to end data security solutions for major corporations worldwide. Protegrity customers centrally develop, manage and control data security policy that protects sensitive information in databases, applications and file systems from the point of acquisition to deletion, across the enterprise. Protegrity's scalable solutions give corporations the ability to implement a variety of data protection methods, including strong encryption, scalable tokenization, masking and monitoring to ensure the protection of their sensitive data and enable compliance for PCI-DSS, HIPAA and other data security initiatives. To learn more, visit [www.protegrity.com](http://www.protegrity.com) or call **203.326.7200**.

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