

Thales Key Management and Precisely Encryption Safeguard IBM i Data



Sophisticated threats and the risk of data exposure are increasing, making encryption an essential last line of defense when other security mechanisms fail. Encryption is also a core requirement in meeting many regulatory mandates. To be completely protected, enterprises must deploy a solution that secures the data that drive their operations.

The Thales and Precisely Solution for IBM i

Thales and Precisely have a solution to the security challenges faced by organizations that need to protect their sensitive data. Precisely's Assure Encryption provides data encryption to IBM i for Power Systems platforms while Thales provides the key management for on-going administration. Assure Encryption secures both structured and unstructured data in IBM i environments to minimize risk by protecting high-value data across its entire lifecycle, no matter how many times it is transferred, backed up, or copied.

IBM i Power Systems (formerly AS/400, i Series, and System i)

IBM i is an integrated operating environment run on the IBM Power Systems server platform. Organizations can take advantage of the infrastructure's flexibility and resilience to run business applications with minimal setup and investment. IBM i is versatile enough to support virtual workloads; over 3,000 solutions from third-party ISVs; and a wide variety of IBM solutions such as Db2 and



Key Management



Access Policies



Auditing Reporting



Flexible APIs



CipherTrust Manager

WebSphere. Enterprises deploy IBM i on Power Systems platforms to lower their operational costs while running applications from a high-performance infrastructure.

Precisely's Assure Encryption and CipherTrust Manager

Assure Encryption is an IBM i encryption solution that secures structured and unstructured data. CipherTrust Manager centralizes encryption key management for Assure Encryption to help organizations meet their security and compliance obligations. Data encryption and decryption are transparent to end users irrespective of the back-end database or file system they are using, or the number of times and locations encrypted data is backed up, stored, or copied. From unstructured data, such as Excel files and PDFs, to structured data, such as credit card number database fields, Precisely Assure Encryption provides protection to a wide range of sensitive information.

Key Features

Centralized Key Management

CipherTrust Manager centralizes the management and storage of cryptographic keys (for example, symmetric and asymmetric encryption keys, passwords, and certificates) in a secure, FIPS 140-2 Level 3 validated, tamper-proof appliance. Management tools and capabilities such as key versioning streamline time-consuming tasks, including key rotation. CipherTrust Manager provides enterprise key management for Precisely Assure Encryption, the entire CipherTrust Data Security portfolio, as well as a growing list of products supporting the OASIS Key Management Interoperability Protocol (KMIP) standard. By providing centralized administration of keys, policies, logging, auditing, and reporting functions, CipherTrust Manager simplifies management, helps ensure regulatory compliance, and maximizes security.

Policy Management and Separation of Duties

Administrators can set authentication and authorization policies that dictate which data can be accessed in the clear by a particular user or set of users. These controls provide administrators with tighter governance of sensitive data.

Policy-driven security using granular access controls provides a vital layer of protection to help organizations comply with the separation of duties between IT and security administrators that is required in many security mandates.

Logging, Auditing, and Reporting

CipherTrust Manager records all key state changes in centralized logs, simplifying auditing and reporting access to data and encryption keys. By tracking this information from one platform, organizations increase security around their data and can readily demonstrate their compliance with industry mandates and government regulations.

- In addition, CipherTrust Manager offers load balancing, connection pooling, SSL connections, and key caching to optimize scalability and throughput to reduce impact on overall performance.

Conclusion: Best-in-Class Data Security and Key Management

Thales and Syncsort make securing data for IBM i easy, from the moment it is generated, despite the ever-increasing sophistication of attacks and the growing complexities of IT environments. This joint solution ensures that data is always secure and organizations remain firmly in control of their data wherever it resides.

To learn more, visit <http://cpl.thalesgroup.com>





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.

Securing Cryptographic Processing in a Hardware Appliance

- When Precisely Assure Encryption is deployed with CipherTrust Manager, all cryptographic processing is securely conducted on the CipherTrust Manager appliance. Alternatively, keys can be pulled to the IBM environment for local crypto processing in a safe fashion.
- The appliance is built specifically for optimizing the performance and security of processing-intensive cryptographic operations. By conducting all operations on the appliance, and never letting encryption keys leave the hardware, Thales's CipherTrust Manager preserves the integrity of the organization's cryptographic infrastructure. Administrators can account for their keys at all times, and trust that unauthorized users won't ever have access to encryption processes.

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