



CORISECIO - DB-RT Encryption *Realtime Security for Enterprise Applications*

CORISECIO - DB-RT ENCRYPTION

Worldwide a set of laws commits companies and public organizations to protect their data. To adhere to the laws, to minimize the risk and also to realize internal policies, a security solution is required which protects especially sensitive information within database systems.

ENCRYPTION ON FIELD LEVEL

CORISECIO – DB-RT Encryption provides the possibility to protect database contents against unauthorized access and manipulation. The encryption is done rule and content based on tables, columns and down to individual fields. The specific encryption of individual fields involves a significant performance gain as only sensitive field values are encrypted. So e.g. management salaries can be encrypted while collective pay committed salaries are readable. Only authorized persons obtain access to the management salaries after prior authentication.

SECURITY & TRANSPARENCY

The encryption is done safely and fast. CORISECIO provides an automatic key management and stores all required keys in a secured environment outside the data base. Administrators do only assign appropriate rights. For users and applications this solution is completely transparent.

MINIMUM ADJUSTMENT EFFORT & HIGH SCALABILITY

The database is adjusted automatically – table structure or field types are not modified. All cryptographic operations are done in a secured environment outside the database. Encrypting and Decrypting operations may even be executed on dedicated servers. The solution so is completely scalable and does not affect the database performance. The applications adjustment is reduced to a minimum. For unencrypted fields the access occurs transparently.

ROLE-BASED ACCESS RIGHTS

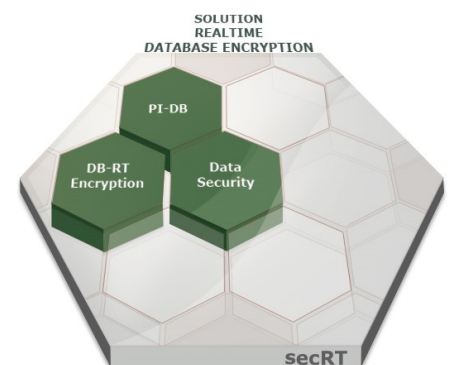
Access to encrypted contents is obtained through a central role and rights system. Existing Meta Directories can be integrated. Via a role concept (RBAC) access rights (separated in read and write rights) are assigned to the authorized users. The access is secured by strong authentication with configurable security levels. Optionally, Smart Cards, Tokens or biometric systems may be used.

FACTS

- Database encryption
- Protection from access and manipulation
- Access rights on user and role basis
- Adherence to laws

BENEFITS

- High level of security for sensitive data
- Transparent for applications
- Risk minimization
- Highest level of scalability
- Minimum implementation work



EASY INTEGRATION

Embedding in DMS, CMS or archive systems is done largely transparently – also data from ERP systems (e.g. SAP ERP) are secured in a speedy and easy manner. CORISECIO – DB-RT Encryption supports leading databases like Microsoft SQL Server and Oracle.

PRODUCT LINE DATA SECURITY

The data security product line is based on the open source product secRT, an Eclipse Foundation project.

The product line includes the DB-RT Encryption that offers a high-performance database encryption covering down to field level, which thereby provides security of ERP systems and other applications.

CORISECIO DB-Offline Encryption offers an innovative way within the encryption of mass data, which are imported e. g. into Data Warehouses (DWH) or in Cloud Computing Environments via batch mode.

In addition, CORISECIO with the Document Encryption offers file encryption with integrated access management throughout the platform.

KEY FEATURES

- Embedding of data encryption for database contents
- Database encryption on columns and on individual fields
- Table structure maintains
- Automatic key management
- Encryption work occurs outside of the data base
- Rule and content based encryption
- Simple definition of the encryption criteria through the user surface
- Free definition of "encryption filters" for unlimited granularity
- Roll based access management down to individual fields
- Configurable security levels and algorithms

SUPPORTED DATABASES

- *Microsoft SQL Server 2005™ or higher*
- *Oracle 10g™ Release 2 or higher*
- *Further databases request*