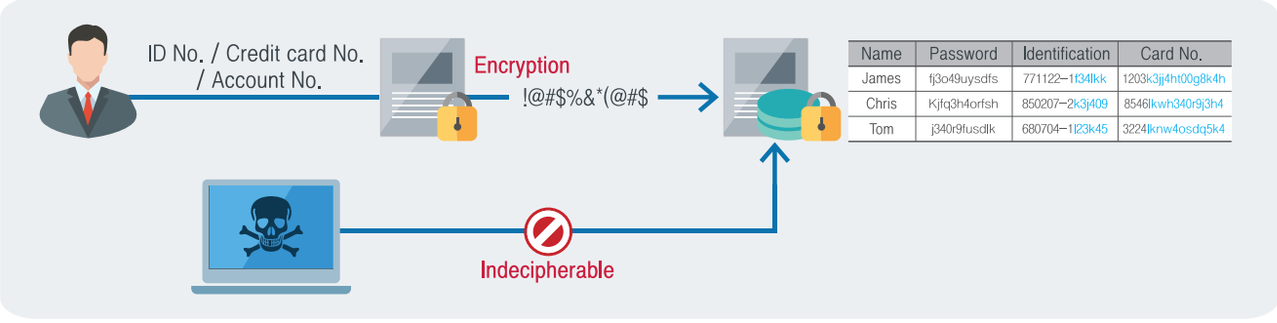
HancomSecure DB

DB Encryption Solution to protect typical/atypical data and provide non-disruptive service for encryption key lifecycle

HancomSecure DB is a complete DB encryption solution that encrypts database (DB), protects critical data and confidential files, and guarantees data confidentiality from information leakages.



Key Features

Verified Solution

- Broad encryption algorithms support (SEED, AES, DES, RC5, ARIA, FPE, OPE, compression encryption, etc.)
- Korea Cryptographic Module Validation Program (KCMVP) certified module
- GS (Good Software) certification, SAP integration certification

High Availability and High Performance

- Encryption of API / Plug-in / Hybrid configuration for each customer's IT environment.
- Non-disruptive service with HA configuration of policy server on policy server failure
- Support NIST standard Format-Preserving Encryption (FPE)
- Support Order-Preserving Encryption (OPE) for Index

HSM-based Key Lifecycle, Integrated Key Management

- No risk on key hijacking by a built-in HSM module (FIPS 140-2 Lv.3 certified)
- Non-disruptive serviced encryption on a new key generation when needed
- Real-time service for scheduling back migration key change
- Centralized management for all keys from DB and atypical data encryption

Encryption Data Compatibility between Operational System and ERP

- Encryption without data size change
- Compression encryption (unique patent): number
- FPE (patent) and alternative key: number and character

Atypical Data Encryption

- API-based atypical data sorting (file types, directory) and encryption
- Non-disruptive serviced Real-time Key Change and Back Migration Key Change support
- Scheduling multi-thread primary encryption support
- IP/MAC access control

Integrated Audit Log

- Integrated audit policy setting
- High-speed audit log using shared memory - 7X better performance
- Minimize service traffic influences through compression /packaging transmission
- High-speed loading through audit log merging
- Big Data (Splunk) integration support

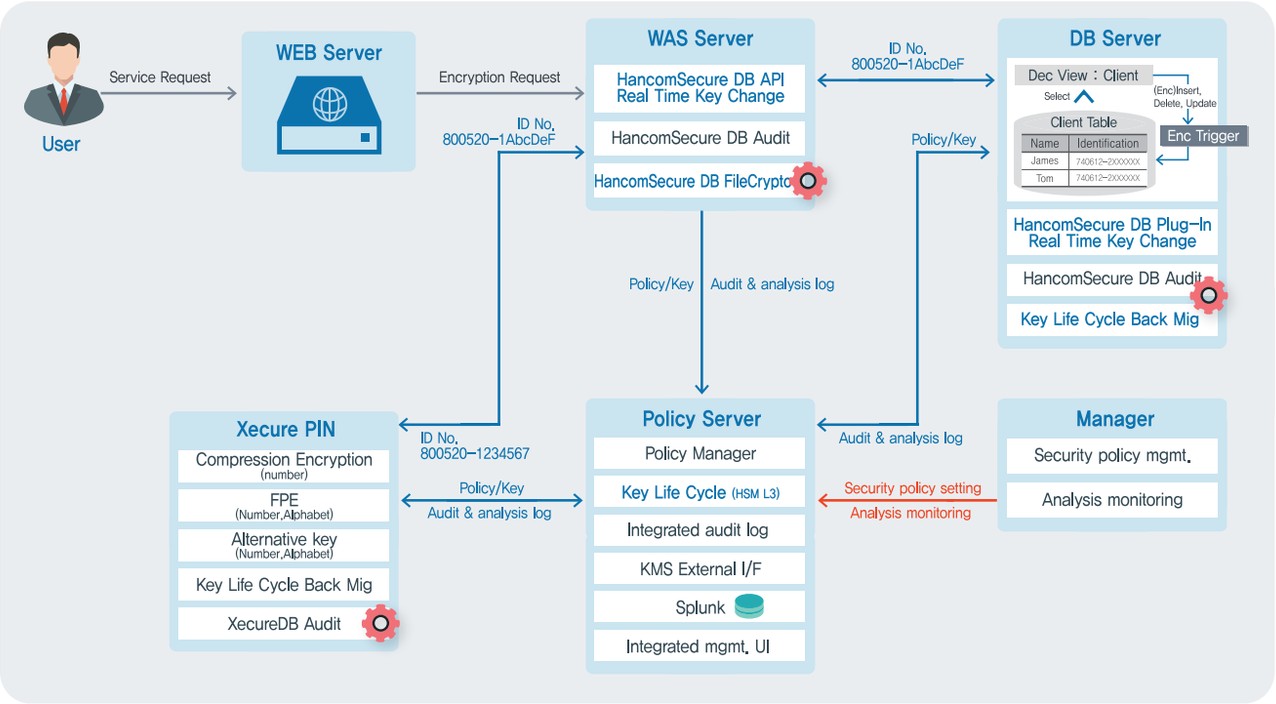
Encryption Scheduling

- Creation of encryption process optimized to the table to encrypt
- Batch encryption scheduling supporting simultaneous execution of Multi Instance and Thread
- Duplication of encryption scheduling to make repetitive encryption transfer test easier

Support operational, DW and embedded environments

- Operation: Oracle, Sybase, MySQL, Tibero, MS-SQL, DB2, etc.
- DW: TeraData, HP Vertica, Exadata, etc.
- Embedded environment: POS, PDA

Architecture



Strong Points

HancomSecure has applied its unique patented technologies to DB encryption

- Guarantee search speed with partial encryption patented technology
- High performance encryption without data size increase through compression encryption
- Provide non-disruptive encryption service even in policy server failure with Sync encryption technology
- Real-time key change and back migration key change for encryption keys without service interruption
- Provide initial encryption scheduling for optimized concurrent execution on multi instance and single instance environments

Reference Sites (over +200 customers)

SAMSUNGCARD · ShinhanCard · LOTTECARD · LIG Insurance · KoFC · kdb · Cigna 라이나생명
ERGO DAUM DIRECT · HyundaiCard · LOTTE DEPARTMENT STORE · Canon Imaging across networks · NPS National Pension Service · MKE Ministry of Knowledge Economy · KISA
ASIANA AIRLINES · Ministry of Health and Welfare · Ministry of Justice · NTS NATIONAL TAX SERVICE · KOREA POST · FINANCIAL SUPERVISORY SERVICE

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