

Transparent Encryption for IBM i

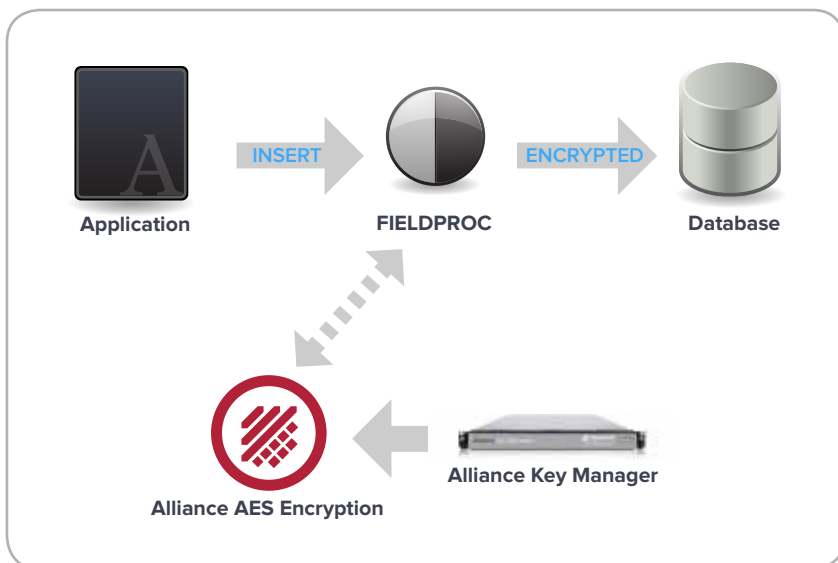
Automatic Database Encryption for IBM i V7R1



Alliance AES/400 Software Enables Transparent Data Encryption for IBM i

Alliance AES/400 performs automatic field and column level encryption using the IBM FIELDPROC exit point, only available in IBM i V7R1. Administrators can easily implement database encryption on the IBM i platform without making source code changes or altering applications [See illustration below].

In release V7R1 of the IBM i operating system IBM released a new column-level API called FIELDPROC or “Field Procedure”. This new feature of DB2/400 provides for an exit point at the column level enabling IBM i users to integrate Townsend Security’s AES/400 encryption software to apply instant field and column level encryption routines without impacting applications.



“Push Button” Automatic Encryption

Encrypt fields such as credit card numbers, SSN, birth dates, address, account numbers and other PII instantly without impacting applications.

NIST Certified AES Encryption

The only encryption product on the market NIST Certified for IBM i V7R1 (and all supported IBM i releases) . Alliance AES/400 is guaranteed to always meet or exceed encryption standards held under PCI, HIPAA/HITECH, State Privacy and other regulations.

Optimized for Performance

Encrypt a large database in seconds. Alliance AES/400 APIs perform 100X faster than the competition.

Meet Compliance Requirements

An intuitive and familiar IBM i interface makes it easy to configure and manage encrypted files. Security Administrators can reduce security exposures by implementing controls about who can view decrypted data.

Key Management - Secure Your Data

Manage encryption keys securely with an integrated key server or FIPS 140-2 certified Alliance Key Manager appliance.

www.townsendsecurity.com

Encrypt Sensitive Information without Changing Your Database

IBM i database applications use a variety of fields to store sensitive information. Encrypt fields that store data such as credit card numbers, SSN, birth dates, address, account numbers and other PII instantly without impacting applications. Alliance AES/400 FIELDPROC support will protect access to the data without changing your database or your applications. With Alliance AES/400 there is no need to reformat your database, or expand field sizes.



In addition to working with legacy RPG and COBOL applications, Alliance AES/400 FIELDPROC support also works with SQL applications. The application source code is not needed to implement Alliance AES/400 encryption.

Meet Compliance Requirements with Certified Encryption

Alliance AES/400 is the only NIST Certified AES encryption solution for IBM i V7R1 (and all supported IBM i releases). AES/400 uses certified 256-bit AES encryption for FIELDPROC data protection. Our customers can be certain that their solutions provably meet the high standards required by compliance regulations.

Optimized for Performance

The Alliance AES/400 encryption APIs are capable of encrypting 1 million credit card numbers in less than one CPU second. They are highly optimized for performance, and perform up to 100X faster than equivalent IBM APIs on the IBM i platform. These same Alliance AES APIs are used for FIELDPROC encryption.

Easily Enforce User Access Control with Data Masking

Automatic encryption and decryption works for all users and applications. Administrators cannot rely on native IBM i object or user authorities to control access to protected data, additional controls and policies must be put in place.

Alliance AES/400 allows administrators to define which users should have access to data and exclude those who should not with data masking. Security administrators can define users who should have access to the data, and define a default policy that masks the data for others.

Define Which Applications Have Access to Protected Data

Alliance AES/400 lets you define context sensitive application controls. Define applications that can access data, and prevent other applications from decrypting the data. Because Alliance application controls do not use native IBM i object authority, you can easily protect data from automatic decryption by FIELDPROC with unauthorized applications like FTP, DFU, and DBU. Enforce data masking on any undefined application, by defining a DEFAULT policy for these applications and prevent application level and program errors.

Townsend Security

Townsend Security provides data encryption & tokenization, key management, secure communications, and compliance logging solutions to Enterprise customers on a variety of server platforms including IBM i, IBM z, Windows, Linux, and UNIX. The company can be reached on the web at www.townsendsecurity.com, or (800) 357-1019.