

## Ingrian Networks and nuBridges

# Data Security for the Enterprise

## Centralized Key Management and Cross-Platform Data Security

### ABOUT INGRIAN NETWORKS

Ingrian Networks brings complete data privacy to the enterprise. With Ingrian DataSecure Platforms, organizations can protect critical data from both internal and external threats, and ensure compliance with legislative and policy mandates for security. DataSecure features a dedicated security appliance and specialized software that enables organizations to encrypt critical data in applications and databases. With its capabilities for granular encryption, seamless integration, and centralized security management, DataSecure enables organizations to guard against a range of security threats, with unparalleled ease and cost effectiveness.

### ABOUT NUBRIDGES

nuBridges provides eBusiness software and services for thousands of manufacturers, wholesalers, retailers, utilities, and financial services firms worldwide. From secure connectivity to complete online collaboration, nuBridges is the practical path to eBusiness for trading partners of all sizes and technical levels.

Ingrian Networks and nuBridges bring together security expertise allowing companies to become compliant with government, industry and corporate regulations to protect sensitive consumer information and business data. Together, their solutions allow information to be secured at rest or while in transit within the four walls of a company or between business partners.

Ingrian Networks DataSecure Platform provides centralized key management and encryption and decryption of data on multiple platforms. The solution secures data within applications, files or any database including Oracle, Microsoft SQL Server, Teradata and

*Our shop runs three different OS platforms and three databases. PCI compliance was a pain in the neck. Not anymore.*

more. nuBridges PCI and Data Secure solutions secure sensitive data within the System I platform (AS/400) providing field and file-level security for all information at rest or in transit

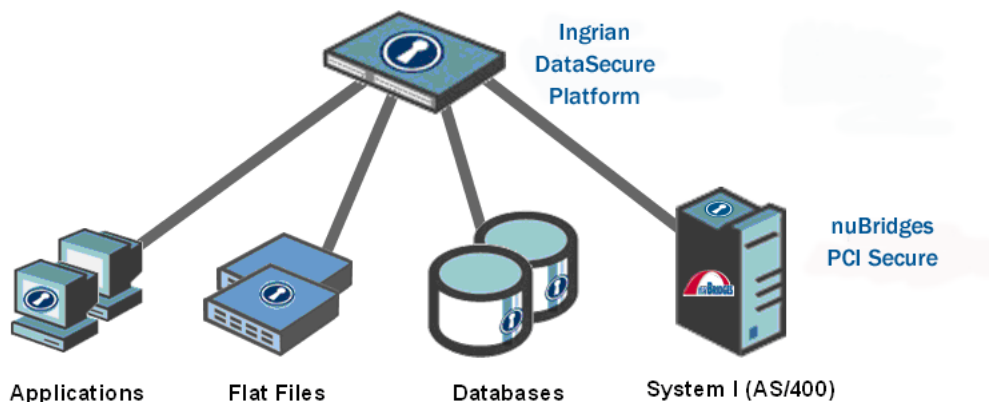
Ingrian Networks and nuBridges have technically integrated the solutions so that regardless of the platform or storage medium:

- keys used for encryption and decryption are maintained by the key-master,
- access rights are handled through role-based permissions at field, file and database-level,
- all events are logged including the information accessed and by whom, and
- backup and restore processes have intelligent key mapping allowing for restoration of data using multiple keys from any time period.

Becoming compliant does not just mean encrypting data. It means making sure that no single user has access to the keys, recording and protecting audit logs, and managing the keys for backup and disaster recovery to name a few key requirements where companies often fail to pass an audit. Ingrian Networks and nuBridges address these and other requirements making sure all your data is secure.

### DataSecure Database Encryption

- Dedicated, high-performance encryption appliance
- Supports clustering and high-availability configuration



- Robust key management and tamper-proof key storage
- Support for certificate-based (two-factor) user authentication
- State-of-the-art algorithm support, including AES, 3DES, RSA and SHA
- Secure, web-based management and database tools
- Role-based administrative and client access to cryptographic keys and functions
- Database encryption/decryption is transparent to applications
- Flat file encryption supported via crypto providers for standard APIs, including JCE and Microsoft Crypto API
- Secure logging of all administrative and cryptographic operations

### PCI/Data Secure Encryption

- Dynamic, on-the-fly, data encryption and decryption providing visibility to the local application only
- Password-based encryption (PBE)
- Public Key Infrastructure (PKI) encryption
- Field-level encryption - encrypt specific fields within a file
- File-level encryption - encrypt an entire DB2 file or set of files
- Supports 3DES and AES 256 encryption standards
- Supports SHA-1 hashing
- Keys and pass phrases are hidden and can be managed and/or revoked as required

### PCI/Data Secure Audit

- Logging each time the credit card information is accessed and by whom
- Encrypts audit logs
- Hides audit logs from intrusion

### PCI Secure Storage

- Encrypt fields and/or files before writing to electronic media for storage (e.g. Tape backup)
- Allows for standard enterprise backup processes to remain in-place
- Stores information on backup media without storing the keys with the data
- Handles decryption using appropriate keys

### PCI/Data Secure Conversion

- Automated file search and replace
- No field size changes required in databases or files; e.g. ability to encrypt a 16-digit credit card number without changing your pre-defined file layout
- Scans program source and converts normal reads in RPG to nuBridges read/decrypt functions
- Converts the credit card number to an encrypted credit card number
- Use single or separate pass phrases to compress and encrypt field
- Individual selection of files and/or fields to encrypt

### PCI/Data Secure Transport

- Secure File Transport Protocol (FTP) with SSL / TLS (if required)
- Proxy and Controller for smart firewall navigation of transactions between business partners
- Secure Transaction Manager software that allows you to completely lock down your firewall but securely transact with your partners while securing private keys

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