



EncryptRIGHT®

A better way to protect sensitive data throughout your enterprise

EncryptRIGHT is multi-purpose data encryption, tokenization and key management software suite well-suited for a specific project or enterprise-wide use. It incorporates Prime Factors' many years of knowledge and experience helping companies and organizations world-wide protect sensitive data. Whether you have compliance requirements or need to reduce risk, EncryptRIGHT gives you a cost-effective way to implement encryption, tokenization and central key management.

EncryptRIGHT was designed from the ground up to meet security threats, accelerate deployments, and satisfy auditors that sensitive data is safeguarded. It comes bundled with key management, secure audit logs and predefined PCI compliance reporting capabilities.

EncryptRIGHT includes:

- PCI-compliant cryptography and key management for one price
- An optional tokenization module that reduces the scope and cost of a PCI audit
- Reports and audit trails for assessment and verification processes
- Broad platform support from PC to mainframe
- A simple desktop application, or API for application integration
- Field, file, database and application-level encryption
- Support for many different development environments
- Wizards to help you get running quickly

You get more value from EncryptRIGHT

EncryptRIGHT's architecture provides the flexibility you need to standardize on one software platform for encryption, tokenization and key management. It lets you implement encryption and tokenization in a variety of ways using the API or the user interface, or both. Not only can you encrypt at the application level, but a non-programmer can encrypt or tokenize files and automate the process.

EncryptRIGHT Tokenization

EncryptRIGHT gives you the option of implementing tokenization to reduce the scope and cost of a PCI DSS audit. EncryptRIGHT tokenization removes a system from audit scope by substituting a random value for sensitive information such as a personal account number (PAN).

By removing sensitive information from data processing systems, security audits are simpler, smaller in scope, easier to perform and cost less.

EncryptRIGHT tokenization can be used for all types of processing, and is suitable for a wide range of personally identifiable information (PII). Tokens have the same format and data type as the original values, so you don't need to change your applications or databases to support tokenized values.

Tokenization is easily added to existing EncryptRIGHT deployments, supported by our secure token database. Enterprise customers can use a JDBC driver to integrate with existing Oracle and Microsoft SQL Server databases. In either case, tokenization is fully integrated with encryption, key management and logging features.

Better key management

Comprehensive central key management insures that you meet requirements for key generation, distribution, storage, rotation and replacement. EncryptRIGHT lets you replace ad hoc key management policies with automated, central key management that includes extensive audit capabilities. Keys are distributed securely from a central management application and stored in a secure database. From a central point, you manage keys and security settings for a large number of end points.

Broad deployment options

Customers deploy EncryptRIGHT in large-scale environments consisting of IBM mainframes and AS400s, as well as in distributed environments running UNIX, Linux and PCs.

EncryptRIGHT also provides a user- friendly environment in which a non-programmer can implement encryption, tokenization and key management. EncryptRIGHT makes it easy to determine what data to protect, how to protect it, security level of employees and key management policies. Using a graphical user interface, security professionals can select which data to encrypt or tokenize, and then follow prompts to insure they implement the right security and key management for their situation.

Rapid implementation

By design, EncryptRIGHT simplifies programming, and facilitates a rapid application development environment. EncryptRIGHT separates programming from implementing cryptography. All cryptographic decisions are made in a data profile record (DPR). You don't need to be an encryption or tokenization expert to define the cryptographic options, keys and data conversions needed. These tasks can be performed by your security administrator. As a result, the API is simple and requires little or no knowledge of cryptography.

A library of subroutines saves programming time and speeds up your project. You can use numeric data encryption, which preserves the original data format and eliminates the need to change an application. A similar process can be used to encrypted alpha-numeric data.

Compliance Reporting

EncryptRIGHT comes with standard reports designed to help you pass compliance audits. Comprehensive audit log reporting helps make your audit go more smoothly.

With EncryptRIGHT, virtually every relevant system event can be monitored, creating a critical detailed audit report trail. You can build an array of detailed audit reports which track everything from access to card records to actions and changes taken by specific users to password and user ID activity to encryption and decryption of specific fields.

Algorithms supported

EncryptRIGHT gives you a wide range of capabilities to protect, authenticate and digitally sign data including Triple DES (2-key and 3-key), AES (128, 192, 256 bits), X9.71 HMAC and RSA public key algorithms. Strong hashing is provided using SHA-2. Public keys can be up to 4096 bits.

Available platforms

EncryptRIGHT is available for a wide range of operating systems including zOS, IBMi (AS/400), HP-UX, Sun Solaris, AIX, Linux and Windows.

FREE 30-DAY TRIAL

Download a fully functional version of EncryptRIGHT at www.PrimeFactors.com.

During your 30-day trial, experience the personalized support that separates Prime Factors from the competition.