

# Pro/Encrypt™

for iSeries and System i

## The Easy Encryption Solution

Pro/Encrypt™ provides the ability to encrypt and decrypt sensitive System i data using sophisticated Advanced Encryption Standard (AES) 128, 192, or 256-bit encryption.

### Pro/Encrypt™: Sophistication and Simplicity

Pro/Encrypt was designed to provide an easy way for organizations using the iSeries or System i to protect sensitive data being backed up or otherwise sent offsite. The Advanced Encryption Standard (AES) encryption methodology was selected in order to provide the strongest algorithms available, while every effort was made to ensure that the process is easy and transparent for the user.

### Overview

An encryption solution that meets mainstream needs at an affordable price, Pro/Encrypt can easily encrypt save files, physical files, or entire libraries. Pro/Encrypt utilizes standardized and approved Advanced Encryption Standard (AES) algorithms, offering the flexibility of encryption options of AES128, AES192 or AES256. Pro/Encrypt provides the core functions most businesses need – the ability to easily encrypt backups so that a lost or stolen tape won't become a disaster, and the ability to encrypt individual files or groups of files before transferring or transporting them to another location.

### Pro/Encrypt's AES Technology

Advanced Encryption Standard (AES) is widely considered to be the best cryptography methodology available today. In fact, the AES cryptography has so far never been broken, and is considered to be unbreakable by today's computers. Among other approvals, AES is endorsed by the U.S. government for securing classified information. Approximately 340,000,000,000,000,000,000,000,000,000 possible keys are available for a 128-bit key size, with considerably more possibilities when using 192 or 256-bit key sizes. The encryption methodology employed has been adopted by the National Institute of Standards and Technology (NIST) and adopted as the federal standard (FIPS-197), meets protection requirements for classified information up to the SECRET level, satisfies Payment Card Industry (PCI) and Visa Cardholder Information Security Program (CISP) recommendations, and meets the medical industry's HIPAA data protection requirements.

### Secure Encryption and Decryption Keys

Pro/Encrypt's AES encryption algorithm uses a symmetric key or pass phrase that is provided by the user. This means the same key is used for both the encryption process and the decryption process. The length of key to use varies, depending on the type of encryption or decryption being performed. 128-bit encryption (AES128) uses a 16 character key, 192-bit encryption (AES192) uses a 24 character key, and 256-bit encryption (AES256) uses a 32 character key. For security purposes, encryption keys are not logged in the job log when Pro/Encrypt's encryption or decryption processes take place.

### Interactive and Automated Usage

Featuring both a menu based structure and individual encryption and decryption commands that can be called from within production jobstreams, Pro/Encrypt offers the flexibility of encryption and decryption "on the fly" as well as automating encryption processes within regularly executed jobs.

### Files, Libraries, and Save Files

Pro/Encrypt provides the capability to encrypt and decrypt individual physical files, save files, or entire libraries. Individual menu options and commands offer easy access to each function.

### OS Release Compatibility

Pro/Encrypt is designed for use with OS V5R2, V5R3, and V5R4.

### About Applied Logic

Applied Logic Corporation has been providing specialized software tools and utilities for the AS/400, iSeries and System i platform since 1988, serving thousands of customers in more than 100 countries around the world. Besides the Pro/Encrypt product, Applied Logic offers "FEU" (File Edit Utility) - a popular database access tool, the PDE/400 Change Management solution, and various legacy system conversion aids. In addition to software products, Applied Logic has also earned a reputation as a highly regarded provider of software development and conversion services.

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