

MerlinCryption™

Protect Your Privates

Product Overview

Leading Edge Encryption with Distinctly Different Key Defense

Data security in the contemporary business environment is increasingly complex, requiring acute acumen and calculated strategy. With new levels of severe and sophisticated threats penetrating the most fortified systems, a drastic change in security tactics is mandatory. MerlinCryption meets this demand with a radically different encryption architecture... vastly more powerful encryption with unpredictable and changing keys which overcome increasing computer-power and investigative technique.

A BETTER MOUSE TRAP:

- Radically different key management maximizes security and productivity while minimizing costs
 - No PKI
 - No Central Key Deposit necessary and no Protocol needed
 - Intrinsic Validation; external Validation not needed
- Key-in-a-File and Password-in-a-File approach introduce scalable keys (2000 bits to 2GBs) and scalable passwords (up to 64KB) in length
 - Sheer magnitude and shape-shifting qualities of keys and passwords exponentially increase security
 - Keys are designed to hide in plain sight or "create-delete-reconstruct" at user's will
 - Key exchange cannot be anticipated or tracked
- No two encryptions are alike: Using the same data input and the same encryption parameters (key and password) *always* produces different cipher text results
- Breakthrough proprietary algorithm. Source code not published or sold
- Not based on mathematical technique - Not subject to statistical analysis

Enterprise Security

ENVIRONMENT

Small to large business enterprise

CHALLENGE

Protect all confidential data as it is used, travels, and rests in unsecured environments and on vulnerable devices or media.

SOLUTION

MerlinFusion™ with FLEX Options

BENEFITS

- Eliminates PKI
- Significantly reduces key cost
- Incorporates stronger encryption
- Enables encryption for any application
- Easy and timely deployment
- Adapts and scales to any business structure



TM

512-348-SAFE

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End the IT Nightmare!

Research shows that organizations spend between \$47 and \$598¹ for the creation, distribution, and maintenance of each key in use. MerlinCryption's innovative key management solution drives down cost and labor of key production to a fraction of PKI cost. Time-saving, labor-saving, cost-saving efficiency for exponentially stronger encryption.

- NO Public Key Infrastructure (PKI)
 - NO Certificates
 - NO Registration Authority
 - NO Directory Management
 - Digital Signatures Optional
- NOT NEEDED: Key Protocol
- NOT NEEDED: Key Validation
- NOT NEEDED: Central Key Deposit

Do More With Less Effective Business Security

Because businesses are as different as the data they protect, MerlinCryption delivers a portfolio of indestructible security for specific business requirements and corporate structures. Until now, user-to-user nuances and intra-company compliance made data privacy a costly maze of confusing processes. MerlinCryption's encryption protects different end-user scenarios and special organizational needs.

Enterprises strategically use the CryptoFile™ method to leverage role-based access rights for authorized user ease. Flexible options, in the encryption software, accommodate clients, vendors, and end users who have contrasting levels of sophistication or need-to-know status.

- Options are selected, based on desire for simplicity or control.
 - Key options include selecting variables of size and location of the embedded key within the CryptoFile™
 - Password options include Secret Password with lengths up to 31 characters, or Password-in-a-File with password sizes 32 to 65,535 bytes.
- Discrete keys and passwords are user initiated and controlled versus application generated and constrained
 - IT has the ability to control all keys or designate key initiation to specific departments and/or individual users
 - Management can independently use the encryption process or collaborate with IT departments for automated use.

The sheer size of scalable passwords and CryptoFile™ keys exponentially obstructs detection and defeats criminal attack. User-chosen keys and passwords constantly allow variations and increase arbitrary parameters to insulate any business complexity while providing controlled, yet simple, access rights for authorized users.

MerlinCryption software provides out-of-the-box functionality, with easy installation to become quickly operational and secure. Organizations realize immediate and significant savings with greatly enhanced productivity levels.

CryptoFile™ Key-in-a-File Innovation

- Scalable Encryption Key: Variable length from 2000 bits to 2GB
- Key initiated from digital contents of a file. The key is not the file, itself, but a sequence of digital values within the file.
- The key is scalable in length, using any portion, or all, of the contents of the file
- Key positioned in varying locations within the file
- User-controlled key:
 - Users choose a discrete file to use as the CryptoFile. (Manually or file generator)
 - Users determine where the CryptoFile is stored
 - Users control how the CryptoFile is communicated (key exchange)
- Dispersal of each CryptoFile™ multiplies available keys-for-use by up to billions of keys at a time
- Keys are designed to "hide in plain sight" or "create-delete-reconstruct" at user's will
- Key exchange can't be anticipated or tracked

Superior Security is in the Details

- All products check program size to detect tampering and alert.
- All encryption/decryption products scrub memory before exiting
- Upon decryption, Merlin performs multiple-stage checking of version, key, and password. Any mismatch produces an error and program exits without trying to decrypt
- Automation produces mass-quantity, sub-second file encryption using command line switches with batch mode or shell scripting
- Eliminates key exchange system; no "trusted" well-known third party signature. No PKI reinforces economical Key exchange and security
- Runs simultaneously with different and multiple applications
- "Click and Go" GUIs, quick guides, and IT handbooks make user self-training an intuitive snap
- On-line support, help-desk, and user forum support ongoing user enrichment
- Source code API not sold or available. Only full program execution can be scripted
- Compliant with relevant legal and regulatory requirements.
- Supports Windows, Linux, and DOS

MerlinFusion™ encryption software with FLEX Options

MerlinCryption's file encryption for cost effective enterprise security features hack-resistant CryptoFile™ embedded Key-in-a-File technique and an additional layer of password protection.

- Keys scale in size from 2000 bits to 2GB.
- Password capacity up to 65,535 bytes in length

Flexible program modes accommodate contrasting levels of access rights and user-sophistication.

- EZ Option for busy people and general users with little "need to know" access. A built-in mutable key and secret password enables immediate encryption action.
- FLEX Option with user-chosen key and password variables implement fine-tuned role-based security.
 - Users indicate key length within the CryptoFile™
 - Users indicate the location of the key within the CryptoFile
 - Users choose between Secret Passwords up to 31 characters and Password-in-a-File with passwords up to 65,535 bytes
- Supports role-based security architecture and access rights management
- No PKI involved
- No two encryptions are alike: Using the same data input and same encryption parameters (key and password) *always* produces different cipher text results

MerlinEZ™ encryption software

The same invulnerable security as MerlinFusion™ with EZ option only. A built-in mutable key and secret password enable immediate encryption action. Lightning fast file encryption protection supports ultra busy professionals, public clients, or users with minimal "need to know" access.

MerlinReader™ Free decrypt-only

Recipients of MerlinCryption-encrypted data conveniently decrypt and open files with no purchase involved. Works in tandem with EZ Option to support non-MerlinCryption users, leveraging smooth operation with public clients, vendors, and other role-based access users.

Merlin4Chat™

Side-channel encryption even on unsecured IM, P2P, Skype, Facebook, GoToMeeting, webinar servers, email, and in the Cloud. On-the-fly encryption for quickly sending cipher text messages up to 1MB long.

MerlinEye™

Access password lists, PII, and confidential accounts on demand, while blocking hackers, and over-the shoulder viewers. Text is never exposed in a file in unencrypted form.

MerlinGen • MerlinGigaGen • MerlinOneGen

MerlinCryption file generators initiate 4 Billion different files ranging from 10K bytes to 2 GBs in length. Each file generated, has over 100 million++ possible keys or passwords. Custom versions carry an "Exclusivity Guarantee" for its client-unique properties

MerlinShred • MerlinFileView • MerlinMD5

Free Tools for savvy IT professionals reinforce convenience and productive security.

The Best of Class Enterprise Security

People > Process > Technology > Success

MerlinCryption establishes a complete encryption solution utilizing uncomplicated software scripting in tandem with strategic process, designed based on the individual organization's security needs and business structure. Whether a small shop or large enterprise, this cutting-edge approach successfully positions impenetrable security with affordability and ease.

SOLUTION SNAPSHOT: Mechanism and Process Basics

1. MerlinFusion™ encryption software with FLEX Options - *Do More With Less*
 - Combines user-initiated keys, key parameters, and password variables to make every encryption unique and unpredictable
 - Enables security leadership to control access rights, dictate policy, and establish process design.
2. MerlinCryption File Generators – *Empower Stealth Action*
 - Initiates keys that scale in size from 2000 bits to 2GB and passwords that scale to 64KB in length
 - Originates billions of keys from a single file – the Key-in-a-File CryptoFile™ solution
 - Produces millions of passwords from each and every file - the Password-in-a-File security innovation
3. Strategic Integration Blueprint - *Build Your Own Fortress*
 - Efficiently and securely manages crib-to-grave life cycle for all encryption keys
 - Bridges company security requirements to effective, practical, and relevant encryption architecture.

MerlinCryption's astute "application-blueprint" solution adapts and scales from small businesses, without dedicated IT staffs, to large conglomerates with extensive geographies, business units, and functional areas supporting multiple priorities and objectives.

Designed so that even complex business structures can be 'up and running' with minimal customization, the solution facilitates do-it-yourself success. MerlinCryption engineering is also available to blueprint, customize, or integrate security architecture for your business. Either way, this powerful solution delivers paramount security with time-saving labor-saving cost-saving manageability.

Data-In-Use • Data-In-Motion • Data-At-Rest • Data-in-Change

MERLINFUSION: Business protection with versatility and client solutions

MERLINEZ: Protection for data file storage and transfer... simply

MERLINEYE: On-screen protection for creating, viewing, and modifying data.

MERLIN4CHAT: Instant messaging, email, and broadcast protection

Customization and unique solutions for individual specification

Experience how MerlinCryption's innovative encryption architecture is changing the way the world protects data. Contact us, today.

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