MerlinCryption®

PROTECT YOUR PRIVATES

Leading-Edge Encryption

Distinctly Superior Key Technology

Data security in the contemporary business environment is increasingly complex. It requires acute acumen and calculated strategy to innovate products that protect both clients and their users. With new levels of severe and sophisticated threats penetrating the most fortified systems, exponential security tactics are mandatory for M2Ms to successfully compete.

MerlinCryption helps developers master this demand with an invulnerable encryption solution platform designed specifically for Machine-to-Machine communications. Vastly more powerful encryption than any current market offering, the embedded solution has unpredictable and uniquely changing keys which defeats increasing computer-power and investigative technique.

The *MerlinM2M* Advantage:
Absolute Stealth For Today's Precarious Environment

Other encryption produces a simple short key strand, which continually repeats in cipher text. This fixed length key is detectable and routinely broken. Keys must be transferred between end-points.

MerlinCryption's variable key length, Anti-Statistical Block Encryption (ASBE) platform overcomes these two major weaknesses with scalable keys from 2008 bits to 2 GB. Keys *do not* require transfer. ASBE is not subject to Cryptanalysis. Each encryption process *always* results in differing cyphertext with varying length, even when repeating the same plaintext to encrypt, key, and password.

ADVANCED TECHNOLOGY

ENCRYPTION INNOVATION

➤ Keys scale from 2008 bits to 2 GB in length
➤ Passwords scale up to 64KB
➤ Flexible 3+ multi-factor authentication
➤ No two encryptions are alike, even using the same input
➤ Parameter-controlled customized key generation
➤ NSA reviewed/BIS approved for export
➤ **OFAC** compliant
➤ Enables partners with **HIPAA, HITECH, and FDA** compliance
➤ Scalable and adaptable for diverse M2M partner environments
➤ ASBE algorithm not subject to attack models and methods of Cryptanalysis

SUB-SECOND AUTOMATION

➤ Checks program size to detect tampering
➤ Scrubs memory before exiting
➤ Upon decryption, performs multiple-stage checking of version, password, and key
➤ Speed-optimized, mass-quantity encryption

The Smart-World's Smart-Encryption™

Encryption Innovation: Partnering in Breakthrough Security

Delivering an advanced encryption solution to companies that need a security component, MerlinCryption helps M2M and OEM partners solve challenges and create new opportunities. By bundling encryption technology into their solution, partners provide their customers a complete integrated offering with flexible and compliant iron-clad security.

MerlinCryption business partners benefit from accelerated time to market, reduced development costs, and improved profitability with a benchmark encryption protection platform.

MerlinCryption's forward-thinking technology is built for change, and is easily integrated, adaptable and scalable. It bundles and assimilates easily into existing systems, strengthening the partner's application as it is… and as it evolves in the future.
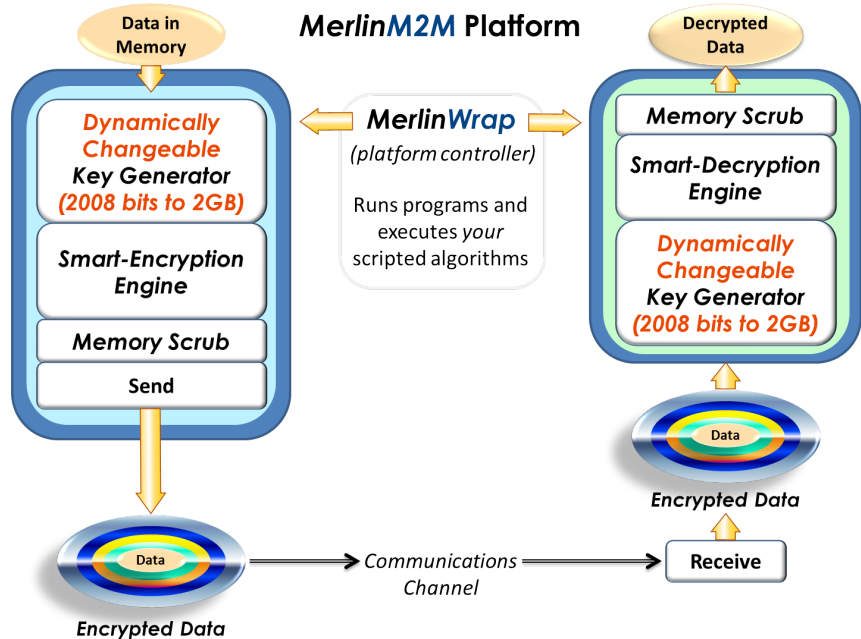

Embedded Encryption Solutions for M2M

MerlinM2M™ protects normal data transfer, software updates, remote control, status queries, problem alert, and billing/usage information.

A patent pending random data generator outputs keys-for-use by *multiple-factors of billions* of keys. Each key exists *only* until encryption is complete, at which point the platform deletes the key and scrubs memory. Although keys can be massive, the platform realizes sub-second speed, working under-the-hood to leverage productivity and invulnerability in M2M environments. Flexible security is designed with a small memory footprint in flash memory or files.

The machine-to-machine encryption platform establishes a complete solution utilizing uncomplicated software scripting, designed to the individual organization's security needs and product structure.

MerlinM2M Platform

Data in Memory → **Dynamically Changeable Key Generator (2008 bits to 2GB)** / **Smart-Encryption Engine** / **Memory Scrub** / **Send**

MerlinWrap *(platform controller)* — Runs programs and executes *your* scripted algorithms

Send → Encrypted Data (Data) → Communications Channel → Receive

Receive → (Data) Encrypted Data → **Dynamically Changeable Key Generator (2008 bits to 2GB)** / **Smart-Decryption Engine** / **Memory Scrub** → Decrypted Data

The Obvious Choice

Cyber criminals took in $388 Billion in 2010, making the business of cybercrime as large as the international illegal drug trade. A swift and drastic solution is needed for this global problem.

MerlinCryption technology delivers a new genre of advanced encryption that thwarts crime through innovation and stealth. M2M providers can now meet and exceed security requirements with effective, practical, and relevant embedded encryption software.

Contact Us For a Demo
512-348-SAFE

THE SMART-WORLD'S SMART-ENCRYPTION™

MerlinCryption LLC develops invincible smart-world solutions that protect against cyber theft and cloning in diverse M2M environments. Leading edge technology secures dynamic end-to-end data for smart-phone, smart-home, smart-grid, V2V, medical device, industry, and extraordinary emerging technologies.

The unprecedented encryption platform protects data as it is created, viewed, edited, shared, stored and moved across communications channels.

MerlinCryption Is Changing The Way The World Protects Data

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