

An Introduction to Voltage Security:

A Unique Approach to End-to-End Data Protection

With the sophistication and persistence of criminal attacks on online systems combined with government regulations requiring full disclosure for data breaches, the potential compromise to business brand, reputation, and revenues means that data security is no longer optional, but essential for customer retention and business longevity.

Managing data security and privacy has always been complex and difficult, requiring massive changes to existing data stores, applications and business processes. Securing business communications with thousands of recipients required significant staff, expertise, helpdesk, and education. Consequently, ineffective legacy security solutions failed to deliver, were removed or bypassed by the business, and the results could not be clearer: data breaches involving unprotected business and customer data are front page news almost every day. Online data (consisting of various types of servers and applications) is the most frequently compromised asset, accounting for nearly all (99.9 percent) of the 285 million records breached in the last year.

With core innovations based on unique, non-invasive technology, Voltage Security is helping companies like Heartland Payment Systems, ING, Kodak and Wells Fargo transform the way data privacy is approached so that it can be an integral and transparent part of everyday business. With Voltage Security solutions, a business can:

- ▶ **Reduce PCI audit scope, system impact, cost and resources associated with privacy compliance** at 20% of the time and effort of legacy approaches as proven with top payment processors to production readiness in less than 60 days -- by eliminating live data from production systems and protecting data without changing database schemas and with minimal application change or performance impact. Voltage accelerates data privacy compliance to PCI, HIPAA/HITECH, FACTA, GLBA, EU Data Protection Act, PIPEDA, Basel II, SEC 17, SOX, US State and Federal, EU, Japanese, Australian, and international data privacy regulations.
- ▶ **Avoid brand-damaging costly breaches by moving beyond privacy compliance** to easily weave protection across data in mainframes, open systems, devices and platforms.
- ▶ **Alleviate administrative burden and system overhead of traditional solutions** with an administration footprint lower than 0.1 FTE per datacenter and at a 5X cost savings in operational costs. Voltage eliminates the traditional legacy technology problems of key management, end-user complexity and high management costs through a proven, stateless platform approach that does not introduce new costs as you scale.
- ▶ **Mask data in existing data stores, reports and files** – one way or reversible, instantly protecting and segregating production system data from test system data, outsourcers and 3rd party data warehouses.
- ▶ **Automate secure and trusted business class communications to anyone, anywhere without changing business processes**, without complexity for end users or IT, and in compliance to sophisticated regulatory needs including policy based content inspection, archiving, discovery and recovery.

Voltage End-to-End Data Protection Platform™

A comprehensive platform to solve the complex privacy challenges facing today's enterprises delivered via a unified architecture that offers a single developer interface, centralized administration for system configuration, common policy framework and stateless key management:

Voltage SecureData™

Encryption, Tokenization, Masking

Protection of sensitive customer and partner information in production and non-production databases and applications to prevent identify theft, enable rapid time to compliance and enable developer access to production data

Voltage SecureMail™

Email, Files and Document Encryption

Secures sensitive business communications internally and externally with employees, business partners and customers either on-premise or Security as a Service (SaaS); supports Blackberry and other mobile devices; and anti-virus, anti-spam, archiving and data leak prevention solutions

Voltage Key Management™

Transparent, Dynamic, Role-based

Highly scalable, stateless key management for applications and web services

Leading In Standards Development

- ▶ NIST
- ▶ PCI Security Standards Council
- ▶ IEEE – P1619.3 and P1363.3
- ▶ # ASC X9 – F1, F4 and F6 efforts
- ▶ IETF – RFCs 5048, 5049 and 509

Voltage Security At-A-Glance

Category	End-to-End Data Protection
Founded	2002
Headquarters	Palo Alto, CA
Savvy Customers	<p>Over 800 corporations worldwide</p> <ul style="list-style-type: none"> ▶ Fortune 100 global payments and travel company ▶ Fortune 100 provider of property and casualty insurance for auto, home and business ▶ Fortune 200 global media and entertainment company ▶ Fortune 500 provider of financial services to institutional investors
Top Vertical Markets	Financial Services, Retail, Healthcare, Business Process Outsourcing, Energy & Utilities, Manufacturing, Government
Leading Solutions	<p>PCI Compliance</p> <p>Regulatory Compliance - Sarbanes-Oxley, Gramm-Leach-Bliley (GLB), Health Insurance Portability and Accountability Act (HIPAA)</p> <p>Enterprise Key Management</p> <p>Data Masking</p> <p>Policy and Content-based Encryption</p> <p>Attorney-Client Privilege</p> <p>Intellectual Property Protection</p> <p>Secure Business-to-Business Communications</p> <p>E-Discovery</p>
Unique, Cutting-Edge Technology	<p>Format-Preserving Encryption™</p> <p>Identity-Based Encryption™</p> <p>Format-Preserving Tokens™</p> <p>Stateless Key Management</p> <p>Data Masking</p>
Flexible Deployment	On-premise, web services and On-Demand/SaaS options
Entourage™ Partners	<p>30 Top-tier VARs and SIs worldwide</p> <p>#1 OEM provider of email encryption technology with OEMs including Microsoft, Proofpoint, Sendmail, Canon, Code Green Networks and NTT</p>

“Configuring a new application or set of applications for encryption simply takes moderate configuration and we’re up and running in a matter of weeks. We had not established a standard (for encryption), and now we have one with Voltage.”

Implemented Voltage SecureData
Dallas Pettingill, Assistant Vice President of IT Governance, RLI

“Heartland is developing a complete end-to-end encryption solution designed to protect cardholder data at all stages of a transaction – from card swipe through delivery to the card brands. Together with Voltage, we are developing a comprehensive solution that currently does not exist.”

Implemented Voltage SecureData
Bob Carr, Chairman and CEO, Heartland Payment Systems

“It’s amazing that even though usage is quite high (40,000 users), we’ve had fewer than 10 calls to the help desk, worldwide, since we went live.”

Implemented Voltage SecureMail
Kodak

“Another Voltage talent .. is called Identity-Based Encryption (IBE). The goal of this approach is to reduce the burden of public key management that has inhibited the broad deployment of PKI. With IBE, a role or identity is used as a public key as a means to replace the need for certificates, all made possible by remarkable algorithms of recent invention.”

George Peabody, Mercator Group