Automatic Encryption to Gain Control and Meet Compliance

HOW ONE GLOBAL BANK SEWED INSIGHT AND UNIVERSAL PROTECTION INTO THEIR EXISTING SECURITY SYSTEMS

SMART ENCRYPTION BENEFITS FOR ONE, TOP-5 BANK

Contingency key—approved admins gain control over locking and unlocking data

Secure data itself—crypto protects data wherever it goes

Automatic results—policy, keys and encryption happen behind the scenes

Exceeds compliance—vetted security covers SEC, FINRA, FIPS, HIPAA & more

DATA PROTECTION PROBLEM—IN DETAIL

~4 million messages each month

285,000 data sources across Windows desktop, server, Mac and Linux

3% email in DLP inaccessible from "uncontrolled encryption"

$100 to $25 Million –SEC disclosure law fine range per message, per day

"WHAT GOOD IS SECURITY IF IT'S OUT OF CONTROL?"

That was the question Param asked his team of security architects at a top-5 global bank after they realized millions of monthly emails and messages went through applications and infrastructure without any insight.

Data was streaming in and out the bank's range of systems from employees who were using a hodgepodge of passwords, certificates and security methods. An expensive, new Data Loss Prevention (DLP) system proved useless when it came to "uncontrolled" encryption.

Param and his CIO realized this amounted to a gap in security and untold loss of sensitive, highly regulated information. Worse than the risk from an insider threat, the out-of-control loss of data could lead to very real fines and punishment from the federal government.

Obviously, board members of the bank wanted no part in an embarrassing and public data leak. The CFO could only laugh about the possible millions of dollars in SEC fines.

"This isn't just hypothetical ones and zeros; the data our employees work with on a daily basis makes up the financial underpinnings of everything from home sales to currency fluctuations. And those interactions are the foundation for our bottom line," said Param, an 11-year veteran at the bank. "From an enterprise system perspective, my team would have been swamped by a rip-and-replace or proprietary security option. With little in the way of new budget, we had to find an answer that was fast, agile and still kept safe all data in motion and in storage."

ENCRYPTION & KEYS TO ADD INSIGHT, SATISFY REGULATORS

PKWARE worked with Param and his teams in New York and London for a code-based answer to the security challenge that spanned hardware, software, infrastructure, devices and the cloud. PKWARE's Smart Encryption software, SecureZIP, worked as a repository to cycle through all enterprise messages and email, giving quick automatic approvals or warnings of potential problems.

To end-users, the change has been negligible, as crypto and key management remain behind the scenes and let them share securely from Office to Adobe to Dropbox and beyond. From a systems perspective, security pros have a verifiable data protection solution that automates policy enforcement and eliminates the value from lost or stolen info. With an extensive background in highly regulated industries, PKWARE's vetted security options satisfied the access and protection demands this bank and its partners operated under via emerging FINRA and SEC regulations.

Param said: "It was just a matter of weeks from P.O.C. to implementation, once we spotted how PKWARE's keys and interoperable encryption fit in our process. Plus, we're able to scale up for the new Mac and Linux systems we're bringing online later this year."

FINANCIAL REQUIREMENTS FOR DATA INTEGRITY & ACCESS

Broker data access and accuracy under FINRA Rule 3110: The Securities and Exchange Commission approved FINRA Rule 3110 to fully go into effect July 31, 2015. FINRA Rule 3110 requires financial institutions to conduct investigations on the "good character, business reputation, qualifications and experience" of brokers prior to their review by FINRA for advisory and services work. Required information in these investigations includes communications with previous employers, searches of the CRD system and public records searches. This newly revised regulation outlines rules for maintaining secure, unaltered documents. Failure to provide accurate, quality information within 30 days may result in disclosure processing fees and delays in regulatory reviews. This broker information is typically submitted as Form U4 and Form U5. [Note: Amendments in FINRA Rule 3110 replaces similar regulatory rules like NASD Rule 3010(f); Incorporated NYSE Rule 345.113; and NYSE Rule Interpretation 345.11/01-/02.]

Clearance and settlement of securities transactions: Under S.E.C. sections 17a-3 & 17a-4, financial transactions are under pressure to strongly protect securities data and other S.E.C. regulated deals with the threat of stiff fines and jail-time. Businesses monitored by the S.E.C. are bound to harness new data processing and communications capabilities to "create the opportunity for more efficient, effective and safe procedures" for securities information transactions. Punishment to businesses for failure to supply documents include imprisonment or, more likely, fees ranging from $100 to $25 million per document, per day.

Benchmark protection of data exchanged with government clients: With the Federal Information Processing Standards, or FIPS, there are different levels of protection expected for information shared and used by non-military government departments and government contractors. FIPS 140-2 is the current version of the standard for data security via cryptographic modules and is mandatory for many government exchanges and deals. If a company or employee isn't operating under true FIPS 140-2, data may be unknowingly left vulnerable to weaker encryption algorithms. Not running at FIPS 140-2 when it is expected can also result in improper configurations in sharing, storing or access.

PKWARE®

Corporate Headquarters
201 E. Pittsburgh Ave.
Suite 400
Milwaukee, WI 53203
1.800.219.7290

EMEA Headquarters
Building 3, Chiswick Park
566 Chiswick High Road,
London W4 5YA
+44 (0) 208 899 6060

For customer stories and product details, visit PKWARE.COM