

XYGATE Data Protection

Data breaches are part of the standard landscape for IT professionals. Every week, it seems, another large breach is announced. With so much sensitive and valuable data being stored electronically this situation is unlikely to change anytime soon. Most IT departments have extensive perimeter-style security solutions in place, but the statistics show that many organizations will be breached in spite of these protections. If that does happen, it's critical that any sensitive data is fully protected.

Security regulations are also being enhanced to ensure this data is protected - from card numbers, to social security numbers, to health care information, there is an applicable security standard, and each case these types of data need to be rendered unreadable to casual access.

One thing is clear about security regulations: There will never be a final version of the standards. The need will always exist to adapt to evolving technology, payment channels, and criminals — the primary reason regulations exists in the first place.

Enterprise-Wide Encryption With No Application Changes

XYGATE Data Protection (XDP) provides encryption for just about any type of data or communications on or between computer systems. XDP is the ideal solution for protecting both data in transit and data at rest and provides the following:

- Enhanced data security for HP NonStop
- Format-Preserving Encryption (FPE)
- Secure-Stateless-Tokenization (SST)
- Support for native and non-native applications
- Cross-platform enterprise support

XDP provides FPE and SST support without requiring any changes to the application or to the existing database. XDP intercepts all NonStop file I/Os, seamlessly encrypting or tokenizing data as it is written to disk, and decrypting or de-tokenizing data as it is read from disk. This is particularly useful for applications that might be difficult or risky to change.

Format-Preserving Encryption (FPE)

XDP offers format-preserving encryption (FPE) and can support data of any format, including credit card, social security, bank account, generic alphanumeric and dates. The solution also maintains rules, such as credit card check sums.

Secure-Stateless-Tokenization (SST)

XDP also offers SST technology which is designed to substantially increase data security over alternative tokenization solutions. Eliminating token databases and stored data removes high-value data targets for hackers and reduces the risk of data breach. The resulting tokens cannot be related back to the original sensitive data.

With XDP, FPE and SST are flexible and customizable. For example, all or part of a value can be encrypted or tokenized, such as the first six digits of an account number, with the last four preserved.

XDP also preserves referential integrity in the following ways:

- Allowing encrypted or tokenized data to be used as database indices and foreign keys
- Enabling searching on encrypted or tokenized data without performance impact

Lower Cost, Lower Risk

Stateless Key Management enables on-demand key generation and re-generation without an ever-growing key store. The result is a system that can be infinitely scaled across distributed physical and logical locations with no additional overhead.

- Identity to derive symmetric keys on the fly — no keys to store or maintain
- Proven, secure and standard — IEEE 1363.3, IETF RFC 5091
- Policy driven — complements identity management systems

XDP Benefits

XDP offers cryptographic breakthroughs that yield measurable business value:

- Stateless key management — no keys to store, manage or distribute/replicate
- True enterprise scalability
- Reduction in administration and infrastructure
- Exceptional ease of use
- No schemas or structured data table changes
- Full/partial encryption, masked and tokenized data from the same interface with AES-backed security

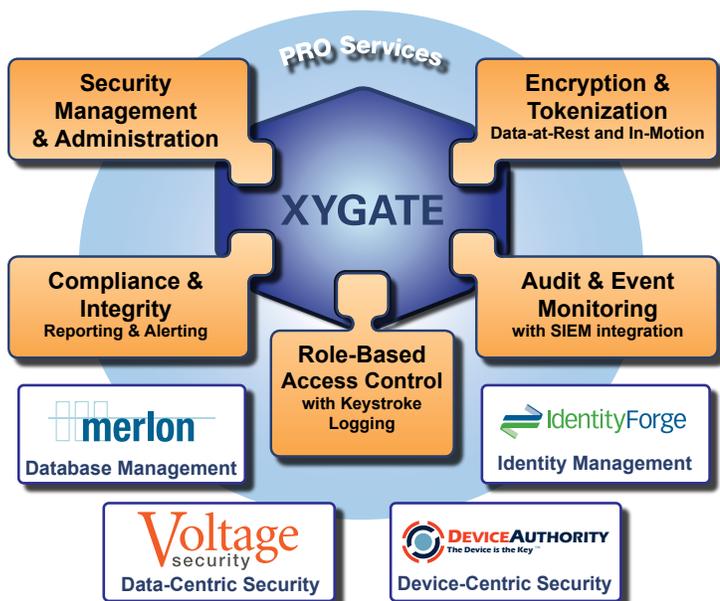
Data-Centric Security

XYPRO has partnered with Voltage Security software to provide data-centric security and stateless key management solutions. Voltage solutions combat new security threats and address compliance, such as PCI DSS or HIPAA, by protecting structured and unstructured data as it is used across data centers, public and private clouds and mobile devices.

Powered by patented innovations in cryptography, including Format-Preserving Encryption™, Voltage solutions uniquely provide security of data coupled with unmatched usability which directly results in dramatically lowered total cost of ownership.

- End-to-end encryption
- Format-preserving encryption
- Secure-Stateless-Tokenization
- Data masking

Voltage solutions are in use at almost 1,000 enterprise customers, including some of the world's leading brand-name companies in payments, banking, retail, insurance, energy, healthcare and government.



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Security Category

