



Cryptography and Regulatory Compliance

We can help you make the right choices around cryptography across your technology stack. And we can help you achieve your policy and regulatory compliance objectives.

Cryptography

Cryptography, at least in the realm of IT security, is not about developing new encryption algorithms, but about applying the right ones in the right way to achieve your goals. Cryptography is a means to an end. The effectiveness of a particular strategy depends on the context in which it is applied. Don't install an armored front door if you have no back wall.

Casaba provides decades of expertise and thought-leadership in all areas of design, analysis, verification and penetration testing to ensure maximum protection. We offer guidance and recommendations on all aspects of cryptography, from the big picture down to the smallest detail. In other words, we help you make the important decisions by weighing issues such as:

- Where, when and why to use specific algorithms
- Cost versus value
- Risks and consequences
- Potential alternatives

Despite the fact that it takes about 10 years to validate a new algorithm, Cryptography is one of the most fluid areas of IT security and is quite unique within the field of computer science. What works today may not work a few years from now.

The critical part of Cryptography is not the code, but the key. Attackers know everything about a given algorithm, but without the necessary key, unauthorized access becomes a major challenge. This fact had led to longer keys as well as complex key management strategies that include systems and policies for physical as well as digital security.

Casaba helps clients protect valuable assets that often include trade secrets, embedded controls, personal information or confidential medical, corporate and legal data. Above all, we help them protect the asset that none can afford to compromise: the integrity of their reputation.

Information Security Policy and Regulatory Compliance

Deploying and maintaining an effective organization-wide IT security policy requires consistency as well as accountability. In order to support an entity's operations and objectives, all IS policies inherently have exceptions. However, without the proper checks and balances in place, policy gaps and workarounds have a tendency to grow over time. A systematic process of detecting risk and assigning accountability is essential to ensuring long-term security.

Casaba leverages comprehensive IS experience and insight to identify policy inconsistencies across organizations in a global manner and implement mitigating controls to protect data without unduly hindering operations. We also have the substantial security expertise required to perform data forensics to determine the cause of a breach.

We work with appropriate compliance specialists to make sure policies are aligned with corporate goals and fully auditable with regard to the wide variety of regulatory guidelines, including:

- SOX
- FISMA
- HIPPA
- SCADA
- DITSACP
- AML

Casaba plays the role of "policy hacker" to uncover existing and potential vulnerabilities across the spectrum of security measures.

- Access control lists governing authorization of humans as well as applications
- Physical security
- Corporate security and personnel policy
- Object labeling, firewall and router controls
- Technical and operational controls

We understand that not only do you want to ensure you have the procedures and protocols in place to prevent unauthorized access to your mission-critical information systems, but you want to comply with regulations to show due diligence and reduce liability.

About Casaba

Casaba is a strongly integrated team of security pioneers with a reputation for relentlessly researching, developing, and implementing innovative solutions to the most difficult security problems. We are prepared to assist in every phase of security consulting and auditing, and we are fully bonded and insured by Lloyds of London.

Get Started

Contact us today for a free consultation and security review:

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