

# EMC Cryptography Strategy Service

## The Big Picture

- Develop a cryptography strategy that considers business, technical, and security requirements
- Consider total-cost-of-ownership and return-on-investment
- Enhance potential interoperability among solutions
- Protect information according to its value

## Align your encryption solutions with business, technical, and security requirements

Encryption solutions are being deployed across the IT infrastructure to address a variety of data security risks. At the infrastructure level, encryption may be used for remote access solutions. Application and services encryption includes authentication and digital signatures. A number of technologies are available for transport encryption. Then, there is end-user encryption, with both IT-supported solutions and those that employees implement on their own.

In many organizations, encryption requirements have evolved over time with point solutions implemented to address the problem at hand. Similar types of information in different parts of the organization have not been handled consistently. And there may be gaps in data protection. The result of this approach is a disjointed solution set that is not interoperable and leads to high management costs and complexity for your end users.

The uses for data encryption are likely to increase in the future with increasing volumes of sensitive business information. Now is the time to prepare for that future with a comprehensive cryptography strategy that consistently considers your business, technical, and security requirements for encryption.

### Overview

EMC® Consulting can help you arrive at the ideal cryptography strategy for your organization. First, they will conduct an encryption architecture review to provide a picture of current uses of encryption and associated management systems in your organization. To ensure that a holistic view of your information security program is considered, the EMC Cryptography Strategy assessment methodology utilizes the ISO 27000 framework to organize findings. ISO 27000 is a series of related international standards that includes a code of good security practices for information security.

The EMC Cryptography Strategy Service helps you meet challenges that occur when:

- Encryption solutions are deployed on a project-specific or service-specific basis
- There is no underlying strategy to unify key management or ensure interoperability and data recovery
- Information protection policies and procedures are unclear
- Encryption keys are not adequately or securely managed

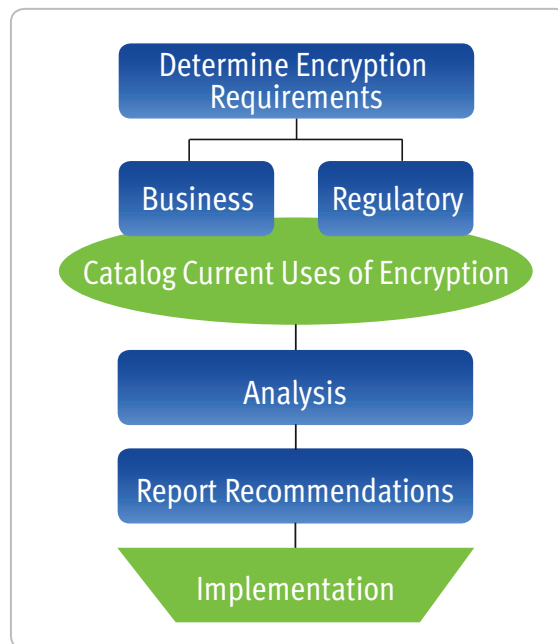
“Encryption is the ultimate control technology for meeting security standards and regulatory guidelines for information protection. However, encryption has been done in a stove-piped manner. Encryption is most effective when it is part of a long-term data protection strategy.”

Charles Kolodgy  
Research Director, Secure Products, IDC

#### EMC Consulting

As part of the world's leading developer and provider of information infrastructure technology and solutions, EMC Consulting transforms information into business results. Our consultants bring a unique mix of industry, business, and technology expertise to solve today's toughest challenges. We use field-tested tools, proven methodologies, best practices, and industry standards to minimize risk and optimize time-to-value in our engagements. We provide a full range of consulting, design, implementation, and support services.

By helping to minimize risks and sustain long-term security frameworks, EMC Consulting empowers clients to achieve their ambitions for business and technology. Working with RSA®, The Security Division of EMC, EMC Consulting offers industry-leading services and solutions to bring trust to millions of user identities, the transactions that they perform, and the data that is generated.



Cryptography Strategy: The EMC Approach

### Scope and approach

The Cryptography Strategy Service from EMC Consulting is designed to help you put in place a cryptography strategy that considers business, technical, and security requirements.

- Business requirements include regulatory, information protection, and business communication requirements; total-cost-of-ownership, and return-on-investment (ROI) considerations.
- Technical requirements consider factors such as ease-of-use, interoperability between solutions, and manageability.
- Security requirements include the protection of information based upon information classification and policy requirements to ensure information is protected at the appropriate level.

EMC Consulting performs a current-state assessment, including current uses of encryption and gap analysis, to develop a road map that supports a cryptography strategy aligned with your business objectives. The strategy also includes recommendations for encryption algorithms and minimum key sizes, key rotation periods, and protection requirements for cryptographic keys.



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#### Take the Next Step

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