



**ENTRUST**

# Entrust Crypto Health Check and Crypto Governance Consulting

Building blocks for Entrust Cryptographic Center of Excellence (CryptoCoE) – where crypto meets best practices

## Market Challenge

An overall explosion in cryptographic dependencies has given way to an urgent need for enterprises to define their crypto strategies and gain visibility into the many crypto instances that are hidden across their IT environments, exponentially broadening attack surfaces.

More nimble workflows like DevOps, Internet of Things, cloud, and multi-cloud environments contribute to the explosion of crypto instances and underscore the importance of instituting best practices for securing critical data and maintaining compliance with external requirements and internal policies.

As crypto evolves, practices and processes must be amended to maintain compliance with updated security standards. Critical infrastructure could become exposed to unseen risks without proper visibility and oversight. This environment requires organizations to implement and enforce a solid crypto management strategy.

## BENEFITS

- Scan systems end-to-end for hidden crypto
- Score crypto against current + quantum policies
- Gain needed visibility for roadmap planning
- Have an expert-by-your-side
- Receive ongoing strategic guidance and support
- Improve data security
- Conduct a comprehensive crypto assessment
- Institute Best Practices
- Develop an actionable plan to operationalize best practices
- Mitigate risks in cloud and multi-cloud environments
- Help establish and maintain compliance
- Automate compliance testing
- Establish governance planning

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# Entrust Crypto Health Check and Crypto Governance Consulting

## Crypto Health Check and Crypto Governance Consulting at a glance

### Consulting Expert-By-Your-Side

- Security architect
- Crypto policy usage
- Ongoing consulting engagements

### Technology Deployed

- Physical scan
- Scans IP/port combinations
- Scans and inventories machines for certificates and crypto
- Scans networks
- Scans for external + internal facing certs
- Evaluates and scores ciphers at endpoints
- Evaluates and scores TLS/SSL protocols

### Analyze

- Compliance and auditing
- Evaluates crypto against internal, standard, and quantum policies

### Reporting

- Detailed analysis
- Cryptographic inventory
- Crypto readiness
- Compliance recommendations
- Vulnerability scoring
- Health check report
- Recommendations

## Solution: Core security assets require a strong crypto strategy

Organizations need to move toward a homogenous crypto management strategy that covers broadening use cases for asymmetric keys to prevent vulnerabilities from mishandled crypto.

The current crypto climate requires the use of advanced discovery tools that can find the crypto/certificates and crypto libraries that often go undetected with the use of traditional tools that only scan networks. Our discovery tool goes beyond the endpoints to do a comprehensive

physical scan of your IT environment. Current crypto environments also require an expert-by-your-side to guide the enterprise through a standards-based best practices framework.

A Crypto Health Check – or baseline Crypto Governance Consulting – can help you navigate the ongoing challenges associated with managing crypto and bringing it under compliance.



# Entrust Crypto Health Check and Crypto Governance Consulting

« **A barrier to a successful encryption strategy is the ability to discover where sensitive data resides in the organization. Sixty-seven percent of respondents say discovering where sensitive data resides in the organization is the number one challenge.** »

Ponemon Institute 2020 Global Encryption Trends Study

## Crypto Health Check — a building block of Entrust CryptoCoE

The Entrust Crypto Health Check arms security, compliance, and risk teams with the tools and expertise required to balance the risks posed by crypto-related threats. We place an expert-by-your-side, recommend best practices, and leverage our unique discovery tools to bring hidden crypto into view. Our Crypto Health Check discovery tool scans your environment to build a cryptographic inventory, then scores those findings against cryptography standards and policies. Recommendations for a strong crypto strategy are delivered in a board-ready report. Security, compliance, and risk professionals get all they need to build a CryptoCoE and greatly reduce crypto vulnerabilities throughout their IT ecosystems.

### Features

#### Consulting: Expert-by-your-side

Gain access to uniquely qualified crypto experts. We place an expert-by-your-side to perform a comprehensive Crypto Health Check and guide your crypto management strategy. Our experts turn data analysis into an actionable plan with metrics that can be measured against baseline findings.

They also deliver a custom roadmap based on best practices for your crypto operations. We are serious about preparing your organization for changing standards and emerging technology, such as post-quantum computing.

Experts-by-your-side conduct a deep dive into your crypto environment. Ongoing guidance and consulting throughout your subscription help you navigate the continuing challenges of managing crypto.

#### Visibility

Discovery is a foundational element of the CryptoCoE and an ongoing activity. It provides a baseline to measure against as the crypto roadmap is put into place. Critical infrastructure gets exposed to unseen risks without proper visibility and oversight. An advanced discovery tool is required to find hidden and hardcoded crypto as well as the crypto/certificates and crypto libraries that go undetected using traditional discovery tools.

Bring hidden crypto into view where it can be brought into compliance by doing a comprehensive scan and testing your crypto environments to improve your overall IT security posture and gain visibility into a full and accurate audit of your cryptographic inventory.



# Entrust Crypto Health Check and Crypto Governance Consulting

## Crypto Governance Consulting - a building block of Entrust CryptoCoE

The first step in building a CryptoCoE is establishing the tactical aspects of the process, starting with a baseline of crypto governance. Governance encompasses the policies, procedures, and people that dovetail into a governance model, which makes a crypto environment trustworthy.

We place an expert-by-your-side to walk your organization through the essential steps of establishing a governance platform. This includes education and recommendations based on best practices that can be operationalized to promote a secure crypto environment.



## Best practices for a strong crypto strategy

Crypto without standards is weak. That's why it's important to define crypto strategies that protect your IT environment with an expert-by-your-side who knows precisely how to construct a best practices framework. A best practices approach helps support compliance with external standards and recommends internal policies to secure your most important business asset — data — whether it exists in the cloud or on-premises. Policy recommendations are constructed based on observations made within your environment and customized to meet your pre-defined objectives.

A Crypto Health Check aligns expertise with a strategy for bringing hidden crypto to the surface. It remediates weak crypto, bringing best practices, and provides ongoing monitoring to enforce policies that help bring crypto into compliance.

## Conclusion

A Crypto Health Check can help balance the risks associated with weak or unmanaged crypto by accelerating an enterprise-wide crypto strategy. Our team of experts applies advanced tools to find hidden crypto and accurately assesses your current cryptographic security posture.

We also provide clear insights for an actionable remediation plan with ongoing consultation. We align expertise with a strategy for:

- Bringing hidden crypto to the surface
- Remediating weak crypto
- Applying best practices
- Providing ongoing monitoring to enforce policies that help bring crypto into compliance



# Entrust Crypto Health Check and Crypto Governance Consulting

## Entrust Cryptographic Center of Excellence

The Entrust CryptoCoE is comprised of five building blocks that solve for specific gaps in your crypto and/or PKI environments. These building blocks can be employed in a modular format to deliver a custom experience based on your organization's specific needs.

### CRYPTO



Crypto Health Check



Crypto Governance Consulting

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### PKI



PKI Governance Health Check



PKI System Health Check



PKI Governance Consulting

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[Entrust PKI Health Check and PKI Governance Consulting](#)

## The Entrust difference

Entrust works as a trusted partner alongside your security, risk, and compliance teams. We offer unique skill sets and expertise and supplement your team by applying our specialized skills, tools, and methodologies. This provides much needed continuity as we help you plan and manage your crypto systems.

Entrust builds trust through assessment and advisement building confidence in your organization's crypto security posture. This makes it easy for you to maintain compliance, enforce policies, and deepen engagement with regulatory agencies.



**Let our team help accelerate your crypto strategy. Contact us today at [info@entrust.com](mailto:info@entrust.com).**



# Entrust Crypto Health Check and Crypto Governance Consulting

## About the Entrust Cryptographic Center of Excellence

Entrust, a leader in cryptographic security solutions, is the first certification authority (CA) to offer a Cryptographic Center of Excellence. It's designed to help organizations balance the risk associated with IT practices that expand crypto use cases by accelerating a crypto strategy for enhanced digital security. We work alongside security, risk, and compliance teams as a trusted partner, sharing our specialized expertise in encryption technology, best practices, and an advanced discovery tool to help bring crypto under control. The Entrust CryptoCoE comprises cryptography experts who offer significant industry experience and provide our customers with a pool of accessible subject matter experts. The CryptoCoE is structured to remain at the forefront of this dynamic domain and offer our customers access to continually updated best practices.

## ABOUT ENTRUST CORPORATION

Entrust secures a rapidly changing world by enabling trusted identities, payments, and data protection. Today more than ever, people demand seamless, secure experiences, whether they're crossing borders, making a purchase, accessing e-government services, or logging into corporate networks. Entrust offers an unmatched breadth of digital security and credential issuance solutions at the very heart of all these interactions. With more than 2,500 colleagues, a network of global partners, and customers in over 150 countries, it's no wonder the world's most entrusted organizations trust us.

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