



ENTRUST

Entrust PKI Health Check and PKI Governance Consulting

Where Your Trust Environment Meets Best Practices

An Evolving Digital Security Landscape

Digital security requirements are becoming more complex. Businesses are migrating to more sophisticated cloud and hybrid ecosystems, and expanding their use cases, all while still striving to establish higher levels of trust. While organizations increase their digital sophistication, they need to ensure their PKI – a cornerstone of security – scales with these evolving business needs.

As certificate use increases and becomes more complex through use cases including DevOps and IoT, and with the impact of distributed IT environments, the organization's attack surface has widened. This exponentially increases the risk for business disruption and security threats. It's important to have full visibility into your trust environment and to implement controls that ensure your policies and procedures are well-established and governed according to best practices.

Entrust can help mitigate the risk by assessing the current state of your PKI deployments and ensuring they are current, compliant, and aligned with your current and future business requirements.

BENEFITS

- Comprehensive PKI assessment
- Visibility into your entire PKI environment(s)
- Expert-by-Your-Side
- Ongoing strategic guidance and support
- Improved security posture
- Actionable plan to operationalize and institute Best Practices
- Mitigate risks in distributed environments
- Help establish and maintain compliance with internal policies and external requirements
- Governance planning
- Be confident your policies and technology are up-to-date and future-proof

« **The #1 challenge to enabling applications to utilize PKI is the lack of visibility of the security capabilities of existing PKI.** »

Ponemon Institute 2020 Global PKI and IoT Trends Study

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Building Confidence in Your Trust Environment

Insufficient skills, insufficient resources, or lack of visibility into your PKI environment can leave your enterprise open to risk. The security practices that establish trust and secure your people, systems, and devices require clear ownership of your PKI to mitigate unforeseen security incidents. The more your business and critical systems rely on your PKI, the more important it becomes to establish scalable and compliant security practices that meet the demanding needs of encryption everywhere.

PKI Health Check – Comprises Two CryptoCoE Building Blocks

The Entrust PKI Health Check arms security, compliance, and risk management teams with insights and guidance to address the risks posed by crypto-related threats. It comprises two Cryptographic Center of Excellence building blocks: the PKI Governance Health Check and the PKI System Health Check.

PKI Governance Health Check

Beyond technology, a proper PKI comprises the roles, policies, and procedures that outline effective governance. Without those in place, what remains is a certificate pump issuing credentials that offer no assurance. In order to have confidence that your PKI is adhering to best practices and can demonstrate essential compliance standards for audits, your policies and procedures must be well-defined and documented. In addition, PKI policies should be built to support your current and future business requirements. Entrust CryptoCoE experts can review your current PKI policy documentation (CP, CPS, RPS, PDS) and review the roles, processes, and policies you've outlined for your organization. We will assess those policies in terms of best practices, compliance requirements, and your business use cases and applications — and deliver actionable recommendations to close procedural gaps and greatly reduce risk.

PKI System Health Check

It's common for organizations to be operating a PKI that was originally set up 10 or even 20 years ago. This timeline likely surpasses resource tenure, which creates a critical knowledge gap. Most organizations are increasing in digital sophistication and expanding digital use cases — and these older PKIs are likely incapable of keeping up. It's important that the technology and software that make up your trust environment are up to date and able to evolve with your business, such as a PKI that can grow, add capacity, and seamlessly interact with remote apps and modern systems. Entrust can provide expert assistance to your teams by assessing the status of your existing PKI implementation. This includes assessing equipment and algorithms in use, documenting the architecture, and making recommendations for improvements or identification of risks. Additionally, we can document your PKI architecture to provide a maintenance plan moving forward, all to ensure your trust infrastructure meets your current and future business requirements.

« **No clear ownership, insufficient resources, and skills are the top three challenges to enabling applications to use PKI.** »

Ponemon Institute 2020 Global PKI and IoT Trends Study

Features



EXPERTISE to Assess, Architect, and Deliver a High-Assurance Security Environment.

The Entrust CryptoCoE gives you direct access to uniquely qualified crypto experts with the required skillsets to perform a comprehensive PKI Health Check. Whether you want to assess the current state of your PKI, deploy a new PKI, craft new policies, or adapt to evolving regulations, our experts will help ensure you are operating your PKI and policies in alignment with best practices, while ensuring current and future business needs are supported. As industry pioneers who are trusted by customers with the most demanding security environments around the world, you can rest assured your organization's trust infrastructure is in good hands.



VISIBILITY into the Current and Future State of Your Trust Infrastructure.

Digital environments are becoming more distributed and certificates are growing rapidly in both use and complexity. So, it's imperative that organizations have a complete view into, and understanding of, their trust infrastructure and make sure it's able to support their demands. Entrust crypto experts will assess the current state and lifecycle of your equipment and crypto, then provide actionable reports and recommendations on how to improve overall security posture and ensure crypto agility. We can also set you up with tools and mechanisms that alert you automatically to security issues or expirations in your environment, further protecting you from vulnerabilities and business disruptions.



BEST PRACTICES to Ensure a Trusted Environment.

In addition to technology, an effective PKI implementation requires proper policies, compliance, operations, and deployment. It also must demonstrate compliance standards for audits. PKI and certificates are foundational for validating identity and creating trust. By defining and enforcing the way you do things, you can be confident in your trusted environment. Our PKI experts will help you balance business needs with regulatory constraints, while maintaining best-in-class policies and practices.

PKI Governance Consulting – A Building Block of the CryptoCoE

A key step in setting up a PKI design and implementation is ensuring formal documentation of the various policies that will be used to govern your PKI. Entrust experts are readily available to help you define the policies, roles, and procedures according to best practices, so they can be enforced within your organization.

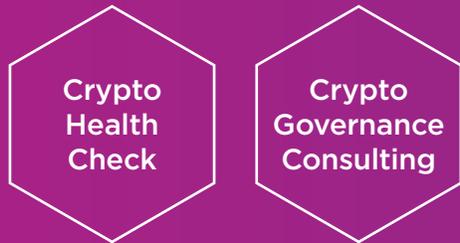
As PKI continues to be a cornerstone to security, a PKI Health Check can help you fully understand your security posture and if there are any risks or gaps in your current deployment or operations. Best practice is to perform regular assessments, reviews, and audits on your PKI annually. This review should encompass the presence of relevant and documented policies and an appropriate technology architecture to support the needs of the business. Given how rapidly digital environments are evolving,

the longer you wait to perform these, the larger the opportunity there is for something to go unnoticed and a critical problem to occur. Entrust builds trust through assessment and advisement to help customers ensure they have the proper policy, compliance, operations, deployment, and technology needed to demonstrate essential compliance standards for audits and future-proof their business.

ENTRUST CRYPTOGRAPHIC CENTER OF EXCELLENCE

The Entrust CryptoCoE comprises 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



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[Entrust Cryptographic Center of Excellence](#)

PKI



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The Entrust Difference

Entrust works as a trusted partner alongside your security, risk, and compliance teams. We offer unique skillsets 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 and builds confidence in your organization's crypto security posture. This makes it easier for you to maintain compliance, enforce policies, and deepen engagement with regulatory agencies.

 **Let our team help accelerate your crypto strategy**

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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

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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