



ENTRUST



Entrust Digital Security Solutions Making Cloud Computing Safe for Business

Market Challenge

Data protection in the age of digital transformation

Data is vital information in the form of customer personal identifiable information (PII), employee PII, intellectual property, business and financial plans, as well as other confidential information. That makes data the most important asset a business possesses. Crypto is critical infrastructure because the security of sensitive data increasingly rests on cryptographical solutions.

Well-managed crypto can be used to secure transactions and communications, safeguard PII and other confidential data, authenticate identity, prevent document tampering, and establish trust between servers. The underlying confidentiality and authentication of all online services rely on the use of TLS/SSL digital certificates to secure data transmissions. Crypto is one of the most important tools businesses use to secure the systems that hold its most important asset – data.

An array of global, regional, and industry-specific regulations and compliance standards require businesses worldwide to cryptographically protect the personal, medical, and financial information that are kept in their possession. These requirements protect data that is used by enterprises for modern banking, digital healthcare, e-government, and a host of other use cases.

BENEFITS

- Secure digital transformation initiatives
- Full-service data encryption
- Data protection
- Compliance with policy and regulations
- Crypto management
- Flexible licensing

« **54%** of businesses reported that employee mistakes is the top threat to sensitive data. »»

Ponemon Institute
2020 Global Encryption Trends Study

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Entrust Digital Security Solutions

Market Challenge (continued)

Reliance on cryptography has evolved to become an integrated layer of defense within all of the digital transformation initiatives that have reshaped modern life. Complex ecosystems and expanding use cases like DevOps, Internet of Things, cloud, and multi-cloud environments are some of the modern IT practices that are increasing an organization's crypto footprint.

Cryptographic solutions are evolving at a rapid pace to address vulnerabilities as they emerge. We have seen requirements for stronger encryption keys, hashing algorithms, and protocols take effect all while keeping an eye on anticipated cryptographical innovations such as multi-party computation, homomorphic encryption, and quantum computing.

To keep up with the rapid pace of change, we need to look at the important role cryptographical solutions play in data protection.

Securing digital transformation initiatives with Entrust's cryptographical solutions

Securing your core data assets starts with building a strong foundation of trust. Trust requires tried and tested cryptographical solutions that meet the latest security standards and keep up with changing requirements.

Entrust offers a comprehensive range of cryptographical solutions to address a broad spectrum of use cases that protect your core data assets. These solutions can be delivered in any combination to create a custom experience for your organization.

HSM – Entrust nShield® hardware security modules (HSMs) provide a hardened, tamper-resistant environment for secure cryptographic processing, key generation, encryption, and key management. nShield HSMs are available in three FIPS and Common Criteria certified form factors – high-performance network-connected appliance, PCIe embeddable card, and portable USB to support a variety of deployment scenarios. Only nShield HSMs feature the Security World architecture that provides strong, granular controls over access and usage of keys and policies. Security World enables simple, automated backups and unlimited key storage. nShield HSMs can be managed centrally for unified policy and administration, no matter how many units are deployed. [entrust.com/digital-security/hsm/products/nshield-hsms](https://www.entrust.com/digital-security/hsm/products/nshield-hsms)

FEATURES

- Data confidentiality
- Data integrity
- Protect data-at-rest
- Protect data-in-motion
- Secure data access
- Secure transactions
- Identity proofing
- Credentialling
- Non-repudiation
- Generate and secure crypto keys
- Crypto expertise



Entrust Digital Security Solutions

HyTrust - The HyTrust Cloud Security Platform enables organizations to automate the application and enforcement of security policies for private and public cloud workloads by focusing on the workload's three critical attributes - people, data, and infrastructure.

HyTrust DataControl/KeyControl workload encryption and integrated key management provide strong data-at-rest encryption for workloads in any cloud, along with easy-to-deploy key management that organizations control throughout the entire workload lifecycle. DataControl supports the highest levels of availability by offering the ability to rekey workloads without taking applications offline and simplifies the process of key management for workloads that do not require sophisticated policy-based key management but need to scale to enterprise-level performance. Organizations retain full ownership of encryption keys with policy-based controls to protect data and meet compliance requirements.

HyTrust CloudControl workload security policy enforcement and compliance key capabilities help organizations protect their virtualized infrastructures with authentication, authorization, and auditing. Better visibility and control simplify compliance and accelerate further virtualization and data center transformation. hytrust.com

Private key infrastructure (PKI) - As companies increase their digital sophistication and expand their use cases, PKI continues to be a cornerstone to security. Entrust's world-leading PKI provides a comprehensive solution to all organizations looking to establish a scalable security practice and is tailored to meet the demanding needs of encryption everywhere. Built on over 25 years of expertise and innovation, Entrust's PKI portfolio of solutions can provide a complete trust environment to accommodate and scale to any business needs. Our broad set of out-of-the-box integrations fit easily into your processes and workflows to provision people, systems, and devices. With deployment models ranging from on-premises, to managed, to as-a-service - Entrust PKI can help any organization establish a higher level of trust. entrust.com/digital-security/certificate-solutions/products/pki

Public trust - Entrust Certificate Services focuses on securing digital transactions for the enterprise. Our award-winning products and services allow enterprises to take control of their digital identity and get the visibility needed to maintain compliance and mitigate risks. We continually invest in technology to assure our customers have the highest security protocols and efficiencies needed to manage their public encryption security posture.

Recognized as innovators as well as pioneers in developing public trust, we continue to bring peace of mind by delivering the best value covering a broad range of digital certificates for public trust use cases: TLS/SSL, S/MIME, QWACs, Verified Mark Certificates, Device, and Document Signing. Our centralized management system gives users anytime, anywhere access to manage digital certificates, lowering operational costs while enforcing security and compliance. entrust.com/digital-security/certificate-solutions/products/digital-certificates



Entrust Digital Security Solutions

Identity - Entrust Identity is the unified portfolio that addresses all of your organization's identity and access management (IAM) requirements. Entrust Identity protects and verifies the identities of workers, consumers, and citizens so you can establish secure access and communications with these different user communities when and where needed, across hybrid and multi-cloud environments. Entrust Identity delivers best-in-class multi-factor authentication (MFA) including an unrivalled number of supported authenticators and use cases. For workforces requiring an added level of assurance, there is credential-based authentication with optional passwordless access. Across all user communities, secure access is maintained with unified single sign-on (SSO) and adaptive risk-based authentication, both of which also reduce user friction. Email and file encryption, along with document signing, help ensure secure communications. Entrust Identity is available as a cloud-based or on-premises solution. entrust.com/identity

Digital signing - As more of life, business, and even citizenship happens online, businesses, governments, and end-users demand paperless, user-friendly, and secure experiences for their daily interactions. Entrust digital signing solutions keep the world moving safely by establishing high assurance, verifiable signatures and company seals for digital documents across public and private spheres. The growing demand for alternatives to face-to-face meetings and wet signatures is driving the need for secure solutions to facilitate and optimize online business and transactions. As a leading certification authority, Entrust has built a solid expertise in crypto-based signing products for individuals and organizations looking to switch away from paper documents with confidence.

Our on-premises and cloud-based signing solutions give end-users the confidence that their individual or corporate identity will be carried across the digital documents they sign, that this identity can be verified and trusted, and also that the document itself cannot be tampered with. entrust.com/digital-security/certificate-solutions/products/digital-signing

Cryptographic Center of Excellence (CryptoCoE)- The Entrust CryptoCoE is comprised of building blocks that solve for specific gaps in your crypto and/or PKI environments to balance crypto-related threats. It's designed to augment cryptographic and PKI processes with tools and expertise providing increased insight into the cryptography that you rely on to maintain data protection, secure operations, and comply with your business-specific regulations.

We place an Expert-by-Your-Side, recommend best practices, and apply advanced discovery tools to greatly reduce the number of crypto vulnerabilities throughout your digital ecosystem. Recommendations for a strong crypto strategy and remediation plan are delivered in a board-ready report, arming you with everything needed to build your own CryptoCoE.

Our tools and services help build confidence in your organization's crypto and PKI security posture, so that you can maintain compliance, enforce policies, and deepen engagement with regulatory agencies.

entrust.com/digital-security/certificate-solutions/products/cryptographic-center-of-excellence



Entrust Digital Security Solutions

Make cloud computing safe for business

Protecting your enterprise's most critical asset – data – takes know-how. Let our team help your team make cloud computing safe for business. Trust our experts to help construct best practices and recommend solutions that secure your digital transformation initiatives. [Connect with an Expert](#)

About Entrust's digital security solutions

Entrust, a leader in cryptographical security solutions, arms security, risk, and compliance professionals with best practices for data protection that help secure the enterprise's digital transformation initiatives. We offer a broad range of solutions that preserve data confidentiality, data integrity, and data accessibility. Our Professional Services team provides unmatched expertise in crypto technology, combining best practices with a full complement of solutions.

About Entrust Corporation

Entrust keeps the world moving safely 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.



Learn more at
[entrust.com](https://www.entrust.com)



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