

Entrust — Solutions Overview

Entrust provides comprehensive identity-based security solutions that safeguard enterprises, consumers, citizens and websites. More than 4,000 organizations in 60 countries across the globe leverage Entrust's world-class security solutions, which include strong authentication, physical and logical access, public key infrastructure (PKI), cloud and mobile security, citizen eID, employee credentialing, SSL and more.

Proven, cost-effective. With more than a decade of service to the globe's most elite organizations and governments, Entrust helps provide identity-based security with award-winning solutions that defend against sophisticated online and internal threats, increase corporate efficiency and comply with domestic and international regulations.

Global respect. Respected organizations — Bank of New Zealand, U.S. Department of State, NASA, U.K. Ministry of Defence, Banco Santander, DnB NOR, Lloyds TSB, American Airlines, Pfizer, Expedia and more — look to Entrust to help protect and secure the most sensitive of assets.

Identity-Based Security Solutions

Digital identities are not only core to electronic transactions and communication, but also can be extended to authorize logical and physical access. These invaluable credentials can enable efficient and seamless access to countless services, goods or applications, including identification cards, e-government services, secure travel documents, online-banking, enterprise access and more.

From security-conscious organizations to innovative government departments, Entrust's identity-based approach helps promote and protect the trust associated with digital identities.

Strong Authentication & Fraud Detection

Entrust's strong authentication platform enables organizations to secure access to sensitive information and intellectual property for employees, partners and customers. The solution offers the broadest range of authenticators in the market — all from a single trusted security expert.

Entrust's versatile authentication platform is often leveraged to solve challenges related to specific use cases, such as physical and logical access or mobile security. This includes taking advantage of mobile or smartcard technology to add additional security measures to a given environment, and leveraging standards such as PIV.

Specific to consumer and business-banking environments, the award-winning Entrust IdentityGuard versatile authentication platform and the Entrust TransactionGuard fraud detection solution seamlessly work together to secure and protect digital identities from online fraud.

What we do

Entrust provides identity-based security solutions for enterprises, governments, and financial institutions that:

- Protect digital identities through strong authentication of people, devices and applications
- Leverage mobile devices as smart credentials, convenient authenticators or to enable mobile security applications
- Provide software solutions to authenticate identities to the cloud and cloud-based applications
- Offer a combination of physical, logical and mobile authentication solutions via a single platform
- Simplify issuance and management of smartcards
- Provide a range of proven fraud detection solutions that offer cost-effective transaction monitoring and risk-based protection from advanced malware
- Enable governments and organizations to deploy advanced credentialing and citizen eID projects
- Safeguard vital proprietary assets through encryption
- Instill trust in Web transactions via Entrust Certificate Services, the No. 2 SSL vendor per Frost & Sullivan

Who we secure

- 9 of the top 10 e-governments worldwide
- 8 of the top 10 global telecom companies
- 8 of the top 10 global aerospace and defense companies
- 7 of the top 10 global commercial banks
- 7 of the top 10 global pharmaceutical companies
- 4 of the top 5 global petroleum companies

Strong Authentication & Cloud Security:

Entrust IdentityGuard

Entrust IdentityGuard enables organizations to layer security — according to access requirements or the risk of a given transaction — across diverse users and applications, services and cloud-based environments.

To ensure enterprises' safe migration to cloud services and applications, Entrust offers a single software platform that provides identity federation, strong authentication, a full range of mobile capabilities and key self-service tools. And our comprehensive digital certificate portfolio and management services help secure Web-based platforms and environments that make cloud computing possible.

The platform's range of authentication capabilities include username and password, IP-geolocation, device, questions and answers, out-of-band one-time passcode with transaction details (delivered via voice, SMS, email or Entrust IdentityGuard Mobile), grid and eGrid cards, digital certificates (in software or on smartcards/USB Tokens), mobile smart credentials, and a range of OTP tokens, including software- and mobile-based tokens.

Mobile Authentication & Transaction Verification:

Entrust IdentityGuard Mobile

Entrust IdentityGuard and Entrust IdentityGuard Mobile enable organizations to leverage mobile devices for strong authentication, real-time transaction verification or secure access to corporate resources. Financial institutions also can use these tools, and an accompanying software development kit, to enhance security for online or mobile banking. This provides proven out-of-band transaction verification or strong authentication capabilities.

Fraud Detection: Entrust TransactionGuard

Entrust TransactionGuard transparently monitors user behavior to identify anomalies, and then calculates the risk associated with a particular transaction — all seamlessly and in real-time.

Unlike competitive offerings limited to transaction-based fraud detection, Entrust TransactionGuard can analyze all points of interaction with the user on a website, allowing organizations to gain a complete picture of potentially fraudulent behavior.

This zero-touch solution captures all data in a session and does not require integration with back-end applications, which also provides a highly effective solution for detecting and defending against man-in-the-browser attacks.

When used with Entrust IdentityGuard, organizations have the ability to increase the strength of authentication based on the real-time risk of customer behavior, rather than forcing all users to authenticate based on a static policy.

Fraud Network:

Entrust Open Fraud Intelligence Network

An information-sharing service designed to help combat online fraud, the Entrust Open Fraud Intelligence Network consolidates and shares key fraud behavior patterns and data among network participants. The network provides participating members the latest fraud behaviors and tactics, as well as key data for helping to detect and combat fraud as it evolves.

“Our organization's goal was to implement a seamless fraud detection strategy that wouldn't require invasive integration with back-end applications — this solution enables us to do just that.”

Sofie Nystrøm, CISO
DnB NOR

Single Sign-On: Entrust GetAccess

A scalable, high-performance, SAML-enabled Web access control solution, Entrust GetAccess centrally manages access to multiple applications through a single portal, providing users with single sign-on to the applications and content they are authorized to see.

Public Key Infrastructure & Digital Certificates

A pioneer of public key infrastructure (PKI), Entrust offers customers flexible and manageable solutions that leverage the unparalleled security capabilities of PKI — delivered as software or as a cost-effective hosted service.

Whether it's ePassport, multipurpose credentials, citizen eID initiatives, secure email, strong authentication or digital signatures, PKI-based technology represents a collection of the most valuable solutions Entrust implements for customers across the globe.

PKI: Entrust Authority

Entrust's first public-key infrastructure — the world's first commercially available PKI — was released in 1994. Now in its eighth edition, the Entrust Authority public key infrastructure product portfolio is the industry's most relied upon PKI solution. This platform is also the foundation for Entrust's many government solutions, including security for ePassports, first-responder authentication credentials and citizen ID initiatives.



Hosted PKI Services: Entrust Managed Services PKI

With the Entrust Managed Services PKI, organizations can leverage the convenience of a full PKI with minimal upfront investment or the need for secure facilities. This hosted solution establishes and maintains a trustworthy environment by providing certificates that secure many off-the-shelf applications using encryption, digital signatures and strong certificate authentication.

Certificate Discovery for PKI

A complement to any PKI deployment, Entrust Discovery finds, inventories and manages digital certificates across diverse systems to prevent outages, data breach and non-compliance. By finding, organizing and prioritizing all digital certificates within an enterprise, organizations can prove compliance polices are being followed and also reduce voids in network security.

Entrust Smart Credentialing

Entrust's end-to-end service provides multipurpose smartcard credentials for each person associated with an enterprise, government agency or citizen population. Whether for physical or logical access, or more advanced electronic machine-readable travel documents (eMRTD), Entrust provides a proven, end-to-end hosted service for consolidating identity-based credentials.

Web & Desktop Security: Entrust Intelligence

Entrust's client-side solutions provide organizations proven encryption, authentication and digital signature capabilities to secure Web and desktop applications, as well as enterprise desktops.

Secure Email: Entrust Intelligence Messaging Server

A complete secure communication platform, Entrust Intelligence Messaging Server is a turn-key appliance for standards-based email encryption. The solution is easy to deploy and maintain for organizations that communicate sensitive or regulated information — both inside and outside their organization — via email. The platform supports a range of email encryption standards, including S/MIME, OpenPGP, Adobe PDF and Web-based email security, as well as secure e-statement delivery.

Secure File Sharing: Entrust Intelligence Group Share

Help eliminate the risk of a data breach by deploying a network folder encryption solution that's transparent, persistent and automatic. Seamlessly integrated into any enterprise environment, Entrust Intelligence Group Share is a convenient solution for securing shared data on corporate networks.

Entrust Certificate Services

Entrust Certificate Services provide organizations with SSL and specialty digital certificates that are proven, cost-effective and supported by standards-based technology. In fact, Entrust is the No. 2 provider of SSL digital certificates and services based on Frost & Sullivan's in-depth market evaluation.

Certificate Management Service

The Entrust Certificate Management Service features a self-service tool that helps streamline the procurement and administration of digital certificates.

The Certificate Management Service reduces administrative hassles and lessens the risk of inadvertent certificate expiration. The Certificate Management Service also enables administrators to "re-use" or "recycle" their SSL certificates to maximize usage and minimize costs.

Certificate Discovery

Entrust Discovery is a comprehensive solution that helps find, inventory and manage digital certificates across diverse systems and environments, even those residing within Microsoft's Cryptographic APIs (CAPI).

By identifying and evaluating deployed digital certificates, Entrust Discovery helps organizations avoid compliance ramifications, costly outages or even losses from data breach.

Entrust Discovery, comprised of Discovery Agent and Discovery Manager, allows you to freely perform network scans and view summary data — ensuring the solution is right for your organization. Upgrading to the full service allows users to view detailed data and manage certificates, and includes more than 25 basic or custom policy alert fields.

Entrust is the No. 2 global provider of SSL digital certificates and services — *Frost & Sullivan*



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Standard & Advantage SSL Certificates

Entrust Standard SSL Certificates provide website identification and enable 128- and 256-bit encryption between common Web browsers and Web servers. With more features than the Entrust Standard SSL Certificate, the Entrust Advantage SSL Certificate offers greater setup and deployment flexibility.

EV Multi-Domain SSL Certificates

Entrust EV Multi-Domain SSL Certificates take advantage of the added visual cues in today's browsers and give your customers the green light to perform sensitive online transactions on your trusted site. These certificates are issued to domains only after rigorous validation of their identity.

Entrust Wildcard SSL Certificates

Entrust Wildcard SSL Certificates secure an entire domain with one certificate. By including both *www.domain.com* and *domain.com* as subject alt names (SANs), and allowing the addition of up to nine more sub-domains as SANs, Entrust Wildcard SSL Certificates are designed for maximum compatibility. They offer a great combination of flexibility and value, allowing system administrators to future-proof the addition of more sub-domains while streamlining management.

"The Entrust system enables us to invalidate a certificate once it is no longer needed and use that certificate for a new client or a new URL. This flexibility is one of the greatest features with the type of business we do."

Jason Williams, Sr. Systems Administrator
Active Network, Events

UC Multi-Domain SSL Certificates

Entrust UC Multi-Domain SSL Certificates provide greater flexibility to support powerful unified communications (UC) products like Microsoft Exchange Server 2007 and Microsoft Office Communications Server 2007, as well as supporting multiple domains with a single certificate — without sacrificing security controls.

Entrust Adobe CDS Certificates

Accessible and affordable, Entrust Adobe CDS Certificates enable organizations to digitally sign Adobe PDF files. Recipients can feel more confident by seeing the visual trust indicators that verify who published the document and whether it has been altered.

Entrust Code Signing Certificates

Entrust Code Signing Certificates allow users to authenticate the source and verify the content integrity of code that is downloaded from the Internet.

Entrust Secure Email Certificates

Publicly trusted Entrust Secure Email Certificates provide a cost-effective approach for individuals or organizations to encrypt or digitally sign important communication and information via a managed service. Based on proven industry standards, Entrust Secure Email Certificates are available in two distinct levels — personal and enterprise. As their names suggest, each is designed to provide the appropriate ID validation and capabilities at price points for the specific environment.

Entrust & You

The smart choice for properly securing digital identities and information, Entrust solutions represent the right balance between affordability, expertise and service. Discover how this will benefit you by contacting us at **888.690.2424** or via email at **entrust@entrust.com**.

About Entrust

A trusted provider of identity-based security solutions, Entrust empowers enterprises, governments, financial institutions, citizens and websites in more than 4,000 organizations spanning 60 countries. Entrust's customer-centric focus is the foundation to delivering organizations an unmatched level of security, trust and value. For strong authentication, credentialing, physical and logical access, mobile security, digital certificates, SSL and PKI, call 888-690-2424, email entrust@entrust.com or visit www.entrust.com. Let's talk.

Entrust[®] Securing Digital Identities & Information