ESSENTIAL SECURITY AND ENABLEMENT FOR THE EVOLVING ENTERPRISE

Managing On-Premise PKI with Ease

The new age of connectivity drives powerful growth opportunities for the modern enterprise. But it also requires critical changes in the way you protect information, networks and devices.

Entrust Authority™ Security Manager, the world’s leading PKI solution, provides an advanced PKI solution for security-minded organizations — delivering full in-house control over PKI infrastructure and simplifying the identity management process.

SIMPLIFIED CERTIFICATE MANAGEMENT

Manage digital identities for enterprise-wide security, without burdening administration. Deployed at the server level, Entrust Authority Security Manager software enables valuable security capabilities — including permission management, digital signature, user and device authentication and encryption — to be applied across a wide variety of enterprise applications.

SEAMLESS MOBILE SECURITY

Mobile operating systems inherently have the ability to store certificate-based credentials and make them available to applications that run on the device — such as VPN clients and email software. Entrust Authority Security Manager issues certificates to mobile devices, enabling organizations to efficiently protect their mobile networks.

EASY & TRANSPARENT FOR USERS

Simplify the user experience. Automatic and transparent key and certificate management means users do not need to understand public keys and certificates to add security to communications, mobile devices and transactions. The platform even provides key history, backup and recovery features so organizations have confidence that encrypted information will not get lost if users misplace their keys.

Product Benefits

- **Experience you can trust.** Entrust Datacard deployed the first commercially available PKI and brings more than 20 years of PKI experience to every engagement.
- **Reduce** the number of credentials you need to purchase and manage.
- **Simplify** PKI deployment and management to a broad range of users and connected devices.
- **Centralize** control of your PKI. Manage multiple use cases with a single CA.
- **Leverage** existing investments. High interoperability includes enhanced integration with Microsoft software.
**ENTERPRISE USE CASES**

Managing identities and devices across multiple locations and embracing Shadow IT requires PKI capabilities. Businesses are challenged to offer secure access to a broader array of services, applications, and physical locations while guarding against increasingly sophisticated threats. Entrust Datacard Enterprise PKI Solutions support IT agility and help organizations securely adapt to multiple use cases.

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<thead>
<tr>
<th><strong>Private Networks &amp; VPN Security</strong></th>
<th><strong>User Authentication</strong></th>
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<tbody>
<tr>
<td>Establish a trusted network environment by issuing digital certificates to VPN gateways, remote access clients and routers.</td>
<td>Give authorized users one simple and secure way to log into networks and cloud-based apps from desktops, laptops or mobile devices.</td>
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<th><strong>Mobile Authentication</strong></th>
<th><strong>Device Authentication</strong></th>
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<td>Remove administrative obstacles for mobile workers while actually improving security — enable the powerful new concept of <em>Mobile as the New Desktop.</em></td>
<td>Simplify Shadow IT and embrace its advantages — manage the identities of all users and devices across your enterprise from a single platform.</td>
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<th><strong>SSL Certificates for Websites &amp; Services</strong></th>
<th><strong>Email Security</strong></th>
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<tr>
<td>Enable security capabilities at the server-level — including permission management, electronic signature, digital receipt and encryption — to be applied across a wide variety of enterprise applications.</td>
<td>Simplify secure communication by implementing comprehensive, standards-based e-mail encryption capabilities.</td>
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### Elements of PKI

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<th>Identification &amp; Authentication</th>
<th>Integrit, Authenticity &amp; Non-repudiation</th>
<th>Confidentiality</th>
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<tbody>
<tr>
<td><strong>Digital Certificates — Trusted identity for people &amp; devices</strong></td>
<td><strong>Digital Signatures — Non-repudiation for secure transactions</strong></td>
<td><strong>Encryption — For Your Eyes Only</strong></td>
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<td>Digital certificates contain information detailing the identity of a person, device or application and a public/private key pair, associated exclusively with the person, device or application.</td>
<td>Electronic signatures that verify acceptance of terms or authorizations of a transaction are impossible to forge, which makes them even more secure than signatures on paper; that in many jurisdictions are legally binding.</td>
<td>Encryption algorithms transform characters into unreadable code that can only be decrypted by authorized users with secure keys.</td>
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<td><strong>Message Hashing — No tampering of information</strong></td>
<td><strong>Public &amp; Private Key Pairs</strong></td>
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<tr>
<td>This technique applies a digital fingerprint to encrypted messages. Attempts to alter message content are easily detected.</td>
<td>All parties in an encrypted transaction have an assigned key pair — one public and one private. Senders use the public key unique to the recipient to encrypt messages. Recipients use their private key to decrypt the message.</td>
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### NOTHING BUILDS TRUST LIKE PKI FROM ENTRUST DATACARD

#### True Enterprise-Grade PKI
We bring 20 years of PKI leadership. The company’s first public key infrastructure — the world’s first commercially available PKI — was released in 1994. Today, our eighth generation PKI technology is the industry’s most trusted PKI solution.

#### Trusted around the World
Using Entrust PKI, our ICAO-compliant ePassport solutions provide integrity and authenticity to citizen information written in 50% of the world’s passports and enable quick and efficient processing of travelers worldwide.

#### 800+ Successful PKI Deployments
Trust like this cannot be built quickly. It takes a partner with profound PKI experience to build a truly effective, secure solution. Evidence of our PKI success can be found in 800+ deployments worldwide.

- 18 of the top 20 eGovernments
- 20 of the top 20 finance companies
- 8 of the top 10 telecom companies
- 7 of the top 10 pharmaceutical companies
- 5 of the top 5 petroleum companies
- 8 of the top 10 aerospace companies

*Nothing creates trust better than PKI, and no organization offers a better PKI than Entrust Datacard.*
ENTRUST PKI PORTFOLIO

Entrust Authority™ Security Manager
The world’s leading public key infrastructure (PKI) helps organizations easily manage their security infrastructures and allows simplified management of the digital keys and certificates.

Entrust Authority™ Administration Services
A web-based application enables delegated and distributed administration with end-to-end security by enforcing all administrative transactions to be digitally signed.

The Entrust Authority Auto-Enrollment Server automatically enrolls users and devices using a Windows® platform, while offering a range of integration touchpoints including:

- Workflow for user enrollment
- Auto-enrollment for Entrust and Microsoft clients
- Simple Certificate Enrollment Protocol (SCEP)
- Enrollment over Secure Transport (EST)
- Certificate Management Protocol version 2 (CMPv2)
- Mobile Device Management System Integration
- PKCS#10 CSR Enrollment Service

Entrust Authority™ Security Manager Proxy
Communicate with a PKI Certification Authority (CA) over the Internet, without making changes to existing firewall settings.

Entrust Authority™ Enrollment Server for Web
Securely issue public-key infrastructure digital certificates to applications and devices.

Entrust Managed PKI
Leverage the convenience and security of a full PKI without the expense of infrastructure investment or in-house experts.

Entrust IdentityGuard
Our authentication solution ensures strong security for online and mobile transactions — as well as protected access to websites, VPNs, cloud apps, PCs and buildings.

Entrust ePassport Solutions
We offer proven solutions for Basic Access Control (BAC) and Extended Access Control (EAC) environments.

Entrust Citizen ID Solutions
Our authentication solutions are used worldwide for a variety of citizen eID, national ID and civil authentication requirements.

Entrust Discovery
Our cloud-based service finds, inventories and manages digital certificates across diverse systems to prevent outages, data breaches and compliance issues.

Entrust Entelligence™ Security Provider
The desktop security solution enables a variety of security capabilities including encryption, digital signatures, secure file deletion and authentication using a single digital identity.

Entrust Entelligence™ Secure Desktop for Mac
Our Macintosh desktop security solution enables a variety of security capabilities including encryption, digital signatures and authentication using a single digital identity.

Entrust Entelligence™ Messaging Server
Our appliance-based email security solution delivers comprehensive, standards-based email encryption capabilities, simplifying secure communication with external business partners and customers.

About Entrust Datacard
Consumers, citizens and employees increasingly expect anywhere-anytime experiences — whether they are making purchases, crossing borders, accessing e-gov services or logging onto corporate networks. Entrust Datacard offers the trusted identity and secure transaction technologies that make those experiences reliable and secure. Solutions range from the physical world of financial cards, passports and ID cards to the digital realm of authentication, certificates and secure communications. With more than 2,000 Entrust Datacard colleagues around the world, and a network of strong global partners, the company serves customers in 150 countries worldwide.

For more information about Entrust products and services, call 888-690-2424, email entrust@entrust.com or visit www.entrust.com.

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