

Entrust IdentityGuard Cloud Services PKI

Hosted PKI for your Organization

Entrust IdentityGuard Cloud Services PKI establishes and manages certificate-based security across an organization through a reliable, customizable and flexible hosted public key infrastructure (PKI).

Entrust's cloud-based PKI service eliminates up-front capital investment and significantly reduces on-going operation cost associated with in-house PKI software, provides built-in maintenance capabilities and speeds deployment time.

Industry-Leading PKI On Demand

For years, security-conscious organizations have turned to Entrust for PKI security. Entrust IdentityGuard Cloud Services PKI makes it easy to purchase exactly the PKI you need today — one that easily scales to meet future business requirements. Certificate deployment is fast and easy. Plus, digital certificate renewal is automated to deliver reliable, hands-off security.

► entrust.com/CloudPKI

Reliable Security

Entrust IdentityGuard Cloud Services PKI provides reliable service with continuous protection for your business. Housed in established secure facilities, the PKI service features a highly available, fully redundant infrastructure with intelligent monitoring, robust data backup and exceptional disaster recovery.

The Ready-To-Go CA

Entrust provides a highly available CA with intelligent monitoring and near real-time replication between primary and standby disaster recovery facilities to minimize downtime and data loss. High-end servers offer robust performance and scalability as your organization grows.

Certificate Administration & Management

Entrust provides flexible enrollment and administration options, including Certificate Revocation Lists (CRL) and Online Certificate Status Protocol (OCSP) services. There is no need to register users in Active Directory, as with a Microsoft CA. Organizations may supply certificates to their own network of trusted users worldwide.

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Cloud PKI Benefits

- Key component of the Entrust IdentityGuard Cloud Services solution
- Reliable service with mission-critical support
- Reduces up-front investment
- Includes maintenance and audit costs
- Built-in certificate management
- Secure, government-grade facilities
- Simple, fast deployment
- Reduces internal IT costs
- Flexible certificate deployment
- Rich policy to manage diverse user communities
- Email-signing and encryption
- Secure remote access (VPN)
- Tamper-proof electronic distribution of documents
- Encryption of documents and e-forms

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Flexible CA Models

Entrust IdentityGuard Cloud Services PKI is available in several service models to provide maximum flexibility. In all models, data and access are consistently and strongly protected.

Commercial Shared CA

Offers dedicated CA partition to each customer. The issuing CA is shared by multiple customers, with each customer possessing its own Organization Unit (OU). The CA is governed by a pre-established Certificate Policy (CP). The service is cost-effective and can be quickly deployed.

Customer-Branded CA

Certificates are under an organization's control and are branded with the organization's name. This model offers a tailored Certificate Policy (CP) and Certificate Practices Statement (CPS). Under this model, each customer is provided dedicated resources and setup, including a root CA, issuing CA and dedicated Administration Service components. Entrust Professional Services also are available to assist with customization, installation and CA migration.

Non-Federal Issuers Shared Service Provider CA

Commonly known as an NFI SSP certification authority, this service is for entities that require certificates trusted by the U.S. federal government. The Entrust NFI SSP CA is cross-certified with the Federal Bridge Certification Authority (FBCA). Issuing certificates for PIV-I cards is a common example of this service.

Federal Shared Service Provider (SSP)

This is a hosted PKI service for employees of the U.S. Federal government, or their contractors whom are sponsored by the U.S. Federal departments. The Entrust Federal Root CA is cross-certified with the Federal Common Policy CA. Issuing certificates for PIV cards is a common example of this service.

PKI & Certificate Consolidation



Government



Enterprise



SERVER CERTIFICATES

AUTHENTICATION

- Web Certificates
- Domain Controller Certificates



WORKSTATIONS & DEVICES

AUTHENTICATION

- Desktop Certificates
- Laptop Certificates
- Embedded Devices Certificates



MOBILE DEVICE CERTIFICATES

AUTHENTICATION

- Support for iOS, Android, BlackBerry and Windows
- Multiple Certificate Bundles



USER SMART CREDENTIALS

MULTI-USER

- Physical & Logical Access
- Smartcard/USB Printing & Encoding
- Mobile Smart Credentials



USER CERTIFICATES

MULTI-USER

- Authentication
- Digital Signature
- Encryption

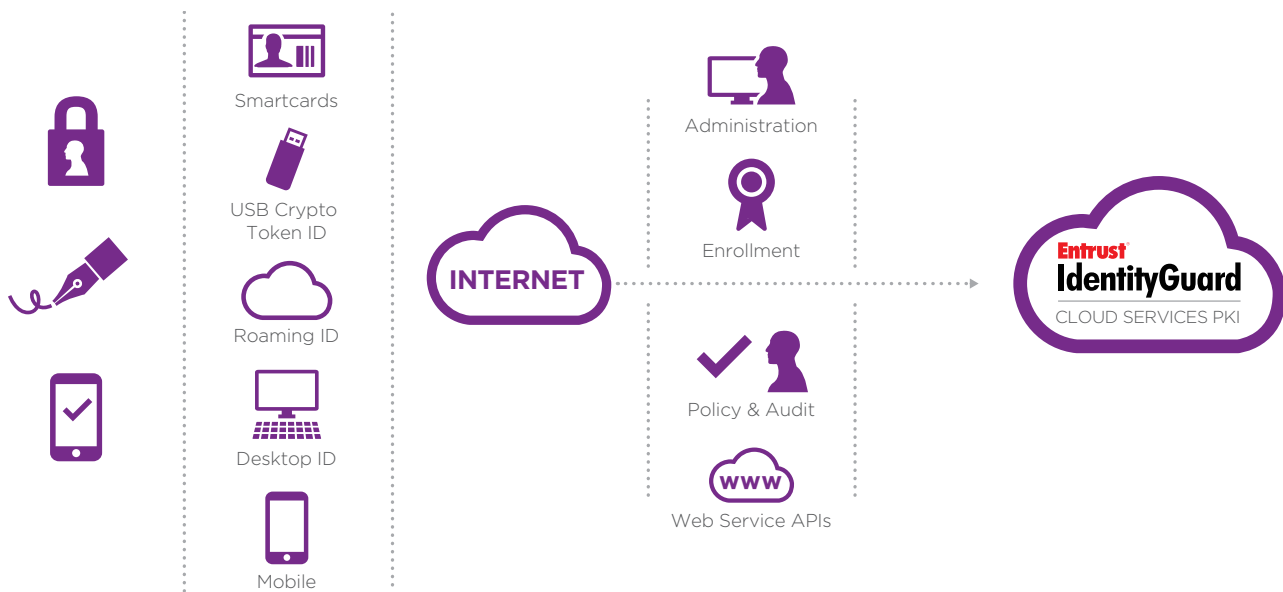
Consolidation reduces costs.

Reduce your total cost of ownership by consolidating certificates — for servers, users, workstations devices and credentials — across your entire organization.

Certificate Integration & Management

Entrust IdentityGuard Cloud Services PKI enables the auto-enrollment of certificates to your network of trusted users, remote employees, partners, suppliers and devices, allowing end-users to sign documents and trust each other's digital signatures. Auto-enrollment services are also supported for VPN, Web users and devices.

Entrust Cloud PKI Architecture



The ready-to-go CA.

Entrust IdentityGuard Cloud Services PKI provides all the capabilities of a standard in-house PKI, but eliminates up-front capital investment and need for expert PKI staff.

Automation via API

The service provides Web service APIs for third-party applications, such as mobile device management (MDM) applications, to automatically enroll and revoke certificates on to mobile devices.

Integration Toolkits

Using Entrust's library of toolkits, organizations may integrate PKI with unique security applications, such as smartcard management solutions, mobile device applications, or physical and logical access control systems. The Entrust Authority suite of toolkits lets organizations integrate certificates into non-CryptoAPI applications that rely on or use Java, the Java Platform, C, C++, IPsec, TLS and more.

Easy Deployment

Organizations may manage certificates through a client less Web application or with Entrust Entelligence Security Provider, an easy-to-deploy desktop client. Entrust provides Web-based certificate administration services to customers, without installing any client software on premise.

- User Management Service (UMS), which allows certificate administrators to manage user accounts over the Web
- User Registration Service (URS), which allows end-users to create accounts and Entrust digital IDs; users with a registration password can self-administer their user accounts and Entrust digital ID over the Web

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Why Entrust?

- Deployed in eGovernments worldwide
- Cryptographic components are evaluated annually against the FIPS 140 and Common Criteria standards
- Entrust issues certificates trusted by the U.S. Federal Bridge Certification Authority (FBCA)
- Provides cost-savings over in-house equipment and personnel
- All data is backed up at a secure, off-site facility
- CA operations and processes are audited annually by an external auditor
- Entrust is recognized by government, finance and industry leaders around the globe for unequalled PKI deployment experience

Core Services

- CA with high-availability and disaster recovery
- Certificate and security management:
 - Key generation, storage and recovery
 - Certificate generation and distribution, as well as CRL or OCSP validation
 - Issuance and management of certificates
- Completely automated certificate update and renewal
- Generation and storage of CA certificate signing keys in a tamper-proof device (HSM)
- Mobile devices certificates delivered via cloud or MDM integration
- Annual audit by external third-party PKI auditor
- FIPS 140-2-compliant tokens for Local Registration Authorities or end-users
- Automated enrollment available
- Web Service APIs for third-party software integration
- 24x7 support

Entrust IdentityGuard Cloud Services

Entrust authors a vision for digital certificates that results in the complete integration of multiple security platforms to make encryption and digital signatures simple to deploy and manage.

Entrust IdentityGuard Cloud Services is the world's first end-to-end digital certificate and identity management service that brings together all certificate services, tools and solutions under a single cloud-based service. It's a simple, strong and easy solution to issue, manage and authenticate identities through their lifecycle via the cloud.

Gain comprehensive identity and certificate management capabilities without the need to deploy on-premise hardware or software infrastructure.

Digital certificates are transparently delivered — to users, mobile devices, servers or machines — through Entrust IdentityGuard Cloud Services. Remove the complexity of deploying and managing an on-premise PKI or other costly infrastructure.

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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