

# Entrust IdentityGuard for Enterprise

## Securing Identities for Enterprise Users, Devices & Applications

Today's enterprise is falling victim to unrelenting attacks that target physical and logical infrastructures, mobile platforms, user identities, network devices and more. To help defend against malicious assaults on corporate data and identities, organizations must look to a software-based platform approach that provides proven security technology — all from a single, trusted vendor.

The award-winning Entrust IdentityGuard versatile authentication platform enables organizations to deploy strong authentication throughout the enterprise — whether it is for physical, logical or mobile access.

### Identity Convergence

Entrust's comprehensive solution consolidates identity management and authentication into a single software platform. This helps simplify management efforts, enable seamless technology advances and ensures the company's security measures can evolve as requirements of the organization change over time.

### Proven Authentication

Organizations should deploy proven strong authentication to help manage identities and ensure those identities are properly authenticated. Entrust IdentityGuard helps organizations pair authenticators with specific types of users or transactions. And it's important to remember that a one-size-fits-all approach to authentication is not appropriate for most enterprise environments.

► [entrust.com/authentication](http://entrust.com/authentication)

### At Constant Risk

Existing point authentication solutions are no longer up to the task of thwarting attacks that exploit vulnerabilities in a variety of channels or mediums. Whether the root threats originate from internal or external sources, critical information, data and identities are at constant risk.

### Power of Mobility

More than just a simple mobile application, Entrust helps authenticate mobile devices and identities that interact, connect and communicate with a corporation's environment. Whether by placing digital certificates directly on user smartphones, deploying cost-effective soft tokens, or leveraging the powerful Mobile Smart Credential, Entrust helps embrace the ubiquity of mobile devices within any environment.

► [entrust.com/mobile](http://entrust.com/mobile)

**+1-888-690-2424**

[entrust@entrust.com](mailto:entrust@entrust.com)  
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### Product Benefits

- Consolidates security measures for physical, logical, mobile and cloud access
- Transforms mobile devices into enterprise-grade smart credential for physical and/or logical access
- Offers widest range of authentication methods from a single software platform, including smartcards and mobile solutions
- Easily extends to provide strong authentication in customer environments
- Protects leading applications like IP-SEC and SSL VPNs, Microsoft® Windows® desktops and enterprise Web applications like Microsoft® Outlook® Web Access
- Built on Entrust's FIPS140-2-validated cryptographic engine
- Provides broad platform support including Microsoft® Windows® Server, Sun Solaris, AIX and Linux

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## Authentication Types

| Non-Physical  | Physical                | Mutual               | Transparent           |
|---|-------------------------|----------------------|-----------------------|
| Mobile Soft Tokens                                  | OTP Tokens              | Image Replay         | Digital Certificates  |
| Mobile Push Authentication                          |                         |                      |                       |
| Mobile Smart Credentials                            | Biometrics              |                      |                       |
| SMS Tokens  | Display Cards           | Message Replay       | IP-Geolocation        |
| Knowledge-Based Authentication                      | Grid Cards              | Grid Serial Replay   | Device Authentication |
| Transaction Verification via Mobile Push or QR code | OTP List                | Grid Location Replay |                       |
| eGrids  | Smartcards & USB Tokens | SSL & EV SSL         |                       |

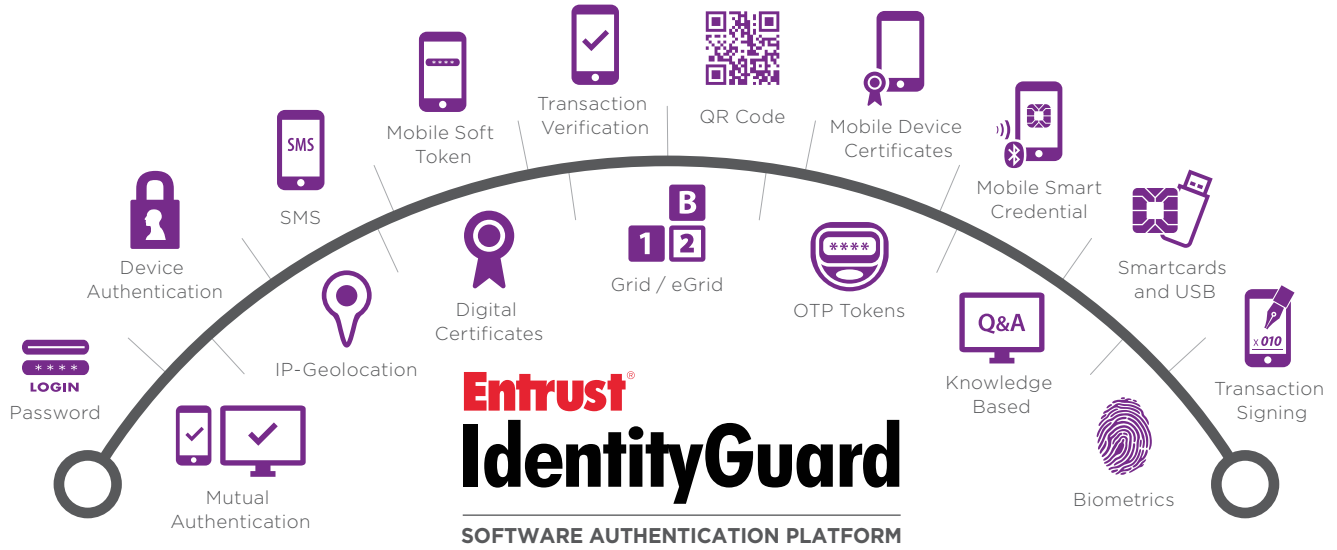
### More Authenticators, One Platform

Entrust IdentityGuard offers the widest range of authenticators on the market — and all from a single, cost-effective software platform. And the addition of smartcards, mobile smart credentials, biometrics and digital certificates extends the platform's versatility, scalability and cost-effectiveness.

### Authentication Options

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

## Software Authentication Platform



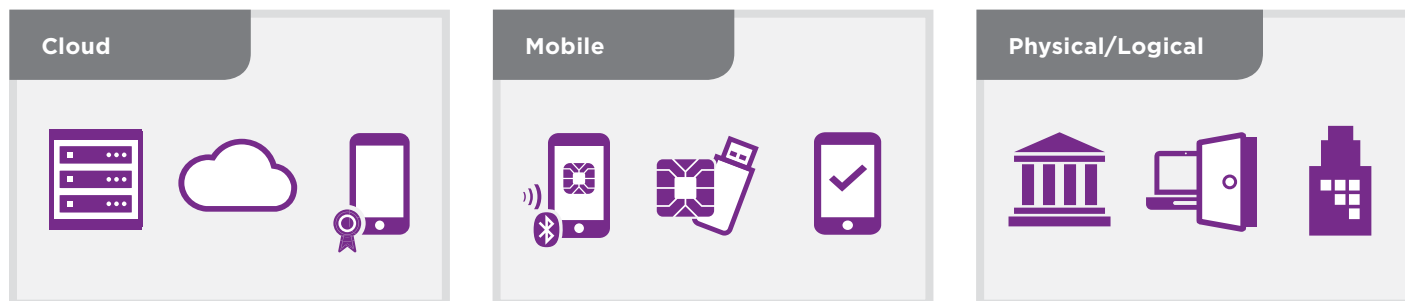
Powered by **Entrust IdentityGuard**. The widest range of authenticators on the market today – all from a single platform.

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## Total Access Convergence

With the evolution of smartcard technology, enterprises can integrate several security environments — physical, logical, cloud and mobile — to provide consolidated management, improved ROI and a total security view.



### Powerful Versatility

Entrust IdentityGuard enables enterprises to issue digital certificates, smartcards (from Entrust or third parties), mobile-based smart credentials and a full range of traditional strong authentication options from a single software platform. This brings together the elements necessary for organizations to achieve the benefits of physical, logical and mobile access convergence.

### Easy for Users

As more security measures are implemented, end-users are burdened with multiple cards, credentials, IDs, badges and tokens. Effective convergence helps eliminate this clutter, reducing the number of credentials users are required to have for physical or logical access.

### Full Lifecycle Management

Entrust's platform approach enables full lifecycle management of credential environments. From selection, issuance, management and revocation, this comprehensive credentialing approach makes it easy for enterprises to increase security.

### Mobile Smart Credentials

Eliminate the need for physical smartcards by transforming today's popular mobile devices into mobile credentials for enterprise-grade authentication. Advanced mobile smart credentials may be used with Bluetooth and near-field communication (NFC) technology for greater convenience.

### Simple Integration

Entrust's open API architecture allows for tight integration with today's leading mobile device management (MDM), identity access management (IAM) and public key infrastructure (PKI) vendors. This enables Entrust IdentityGuard to work with new and existing enterprise implementations, plus adds the ability to integrate in-house or managed service-based digital certificates.

### PIV Is Proven

As a U.S. Federal government-approved provider of PIV and PIV-I credentials, Entrust is an expert in the Personal Identity Verification (PIV) standards that industries and enterprises are adopting to govern their authentication strategies.

### One Vendor, One Solution

Many credentialing or smartcard vendors are only able to provide single elements of the overall solution, not all necessary components for a complete solution. Entrust's end-to-end credentialing allows organizations to rely on a single vendor for all authentication requirements.

### Real ROI

Implemented effectively, a converged security system allows organizations to reduce the number of vendors, contractors or third parties who are required for separate systems. This equals real cost-savings, enhanced security and a strong return on investment.

## Secure Mobile, Leverage Mobile

Entrust offers a number of capabilities that not only help secure mobile identities and transactions, but also empower organizations to leverage mobile devices to improve overall security and streamline business processes. Security controls are increased across all channels, enabling more convenience for employees and customers alike.

### Entrust transforms mobile so you can transform your business

Entrust IdentityGuard Mobile is far more than a replacement for hardware tokens supporting many Enterprise use cases including the ability to secure mobile initiated VPN sessions, securing access to third party cloud/ SaaS applications and even confirming business critical transactions “out-of-band” to defeat malware-based session riding attacks. IdentityGuard Mobile Smart Credentials virtual smart cards enabling and access to buildings, doors, windows work stations as well as business systems and web-based applications.

#### Reduce IT cost and complexity

Leveraging mobile eliminates the need to purchase dedicated hardware authenticators and simplifies user provisioning and management as users already know how to download and update mobile apps and Entrust’s broad range of self service features makes enrollment and activation a breeze.

#### Get Notified

Entrust IdentityGuard supports push notifications to mobile devices alert users of a pending transaction. This helps quickly notify users of potential fraud.

#### Popular Platforms

Entrust IdentityGuard features software-based, one-time-passcode authentication on today’s leading smartphone platforms, including Apple iOS, Google Android, Windows Phone and BlackBerry. Select platforms also gain out-of-band transaction verification to help combat online fraud — a seamless, back-end experience that doesn’t require the user to enter a confirmation code to complete a transaction.

#### For Developers

Entrust’s easy-to-use SDK helps organizations create customized mobile authentication applications tailored to the requirements of a specific environment. Entrust’s authentication capabilities can be embedded transparently into existing mobile applications, further simplifying security on mobile devices for the end-user.

## ENTRUST MOBILE SECURITY SOLUTIONS

### IDENTITIES, DEVICES & TRANSACTIONS



STRONG AUTHENTICATION

DEVICE CERTIFICATES

MDM INTEGRATION

DESKTOP MALWARE PROTECTION

MOBILE SMART CREDENTIAL

TRANSACTION-SIGNING

APPLICATION PROTECTION

ANALYTICS

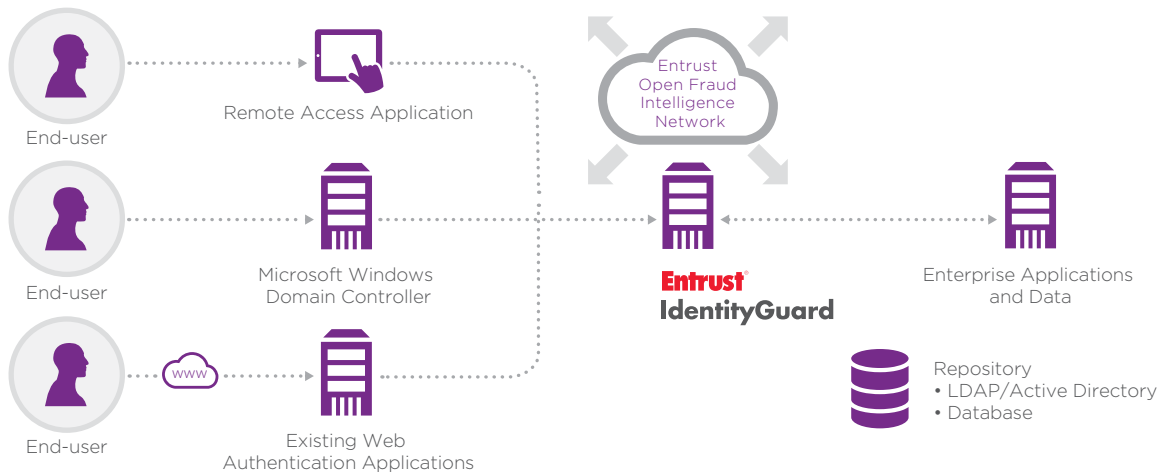
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## Comprehensive Management Interface

Once deployed, Entrust IdentityGuard empowers IT staff with a comprehensive administrative dashboard that simplifies user enrollment, roles, group and policy management, bulk operations and more. Authorized managers also can generate usage reports, assign and manage certificates, and oversee any IP blacklists used for risk-based authentication.

### Versatile Enterprise Architecture



**Easy integration.** Entrust IdentityGuard offers seamless integration to existing infrastructure.

## Technical Integration

The Entrust IdentityGuard software authentication platform works within an organization's environment with little impact to the existing infrastructure. The platform can run as a stand-alone authentication server or be deployed into leading application servers, including IBM and Oracle, interfacing to current sign-on applications via Web services. This allows rapid integration with current applications whether they are built on J2EE, .NET or legacy platforms.

It does not require additional client or server software for VPN remote access, interoperating with various leading IP-SEC and SSL VPN applications from Cisco, Checkpoint, Juniper Networks, F5 and more. The solution even includes 802.1x native support.

Organizations can leverage standard Web service APIs to directly integrate into an enterprise portal, or use the suite of integrated applications such as Microsoft® Outlook® Web Access, Citrix Xen App, or Web Access Managers such CA Siteminder, IBM Tivoli Access Manager or Oracle Access Manager.

The solution uses existing repositories for storing identity information instead of mandating new expensive instances, including supporting leading LDAP directories such as Oracle Directory Server, Microsoft Active Directory and Novell, and databases from Oracle, IBM and Microsoft.

#### **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](mailto:entrust@entrust.com) or visit [www.entrust.com](http://www.entrust.com).

#### **Headquarters**

Entrust Datacard  
1187 Park Place  
Shakopee, MN 55379  
USA

