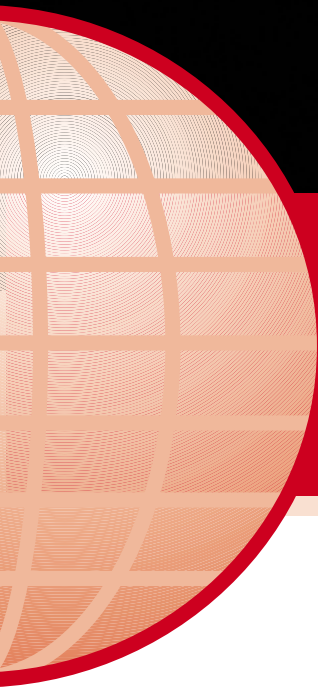




"USB tokens will be widely adopted into the market because of their low price and greater convenience."

IDC, 2003



# eToken™

YOUR KEY TO eSECURITY

**The Ultimate  
Authentication  
Technology**



**Aladdin®**  
SECURING THE GLOBAL VILLAGE



## The Digital Identity Paradigm

Network security and information access – both are critical to the successful enterprise. In this world of eCommerce, strategic partnerships, and road warriors, the demand for remote access to company resources is dissolving the traditional boundary of the enterprise. While the opportunities have never been greater, the risks have also multiplied with the potential that unauthorized individuals access the wrong information. As a result, controlling the digital identity of those accessing key resources is more important than ever.

Passwords, the primary tool for user authentication, can be easily stolen, lost, shared or even cracked. Due to the need to manage multiple passwords and to ensure the effectiveness of passwords used, organizations have adopted stringent password policies. This has translated into more complex passwords and consequently, made them more difficult to remember. To cope, users are writing their passwords down, compromising the security they were meant to improve.

> *More than password authentication is necessary to protect sensitive information... users not only compromise security by writing their passwords down, but 67 percent of users rarely or never change their passwords.*  
NTA Monitor, 2002

> *80% of help desk calls are password related.*  
[www.silicon.com](http://www.silicon.com)  
2003

> *Password reset costs are estimated between \$40 to \$140 per call.*  
Gartner, 2003

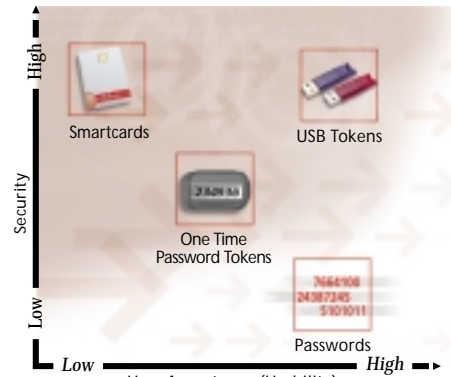
## eToken - The Digital Identity Organizer

The Aladdin eToken is a fully portable, cost-effective USB device to authenticate users and digitally sign sensitive business transactions. It enables both users and IT/security administrators to more effectively manage the authentication process by securely storing and generating passwords, digital certificates, and encrypting all logon information – both public and private keys. eToken thus ensures that users' keys are never exposed to the hostile PC environment.

## eToken Key Benefits

- Provides enhanced security and ensures safe information access
- Enables mobility of keys and digital credentials/certificates
- Provides improved password and ID management

Comparison of Authentication Means By Security and User Acceptance





# Solutions and Applications

Today's IT environment demands that you do more with less. eToken delivers a broad platform of solutions to enable greater standardization, with lower deployment and management costs. One eToken enables all of these solutions and more:



It's your digital identity organizer.

## [ VPN Security (Secure Remote Access) ]

eToken enables enterprises to strongly authenticate their remote users when accessing the organizational network, offering seamless integration with mainstream VPN systems such as: Cisco, Check Point, Microsoft, SSH and many others.

## [ Web Access ]

eToken enables strong user authentication when accessing protected web resources and signing sensitive digital transactions. Using standard browser technology and digital certificates, users can also verify that the websites they are accessing are what they claim to be.

## [ Network Log-on ]

eToken enables organizations to add strong user authentication when logging on to protected network resources supporting Smartcard logon technology using PKI and also the native Microsoft (GINA) logon mechanism by storing users' passwords and access credentials.

## [ Proximity Access (Doors/badges) ]

eToken enables the integration of a variety of proximity technologies combined with network access for both, with its traditional Smartcard and USB token form factors, depending on organizational needs. Printing of a user's picture and identification details on the Smartcard offers an ideal solution for organizations requiring visual user verification.

## [ File & Data Encryption ]

eToken offers advanced connectivity to many types of data protection systems, ranging from full hard drive encryption and boot protection, to specific file encryption and signing.

## [ Secure Email ]

eToken offers seamless connectivity to major email clients using standard security features.

## [ Advanced Password Management ]

With eToken, a user no longer needs to remember passwords for different accounts – their single eToken password combined with their eToken is all they need. eToken manages the user's credentials and automatically submits them to different log-on applications.

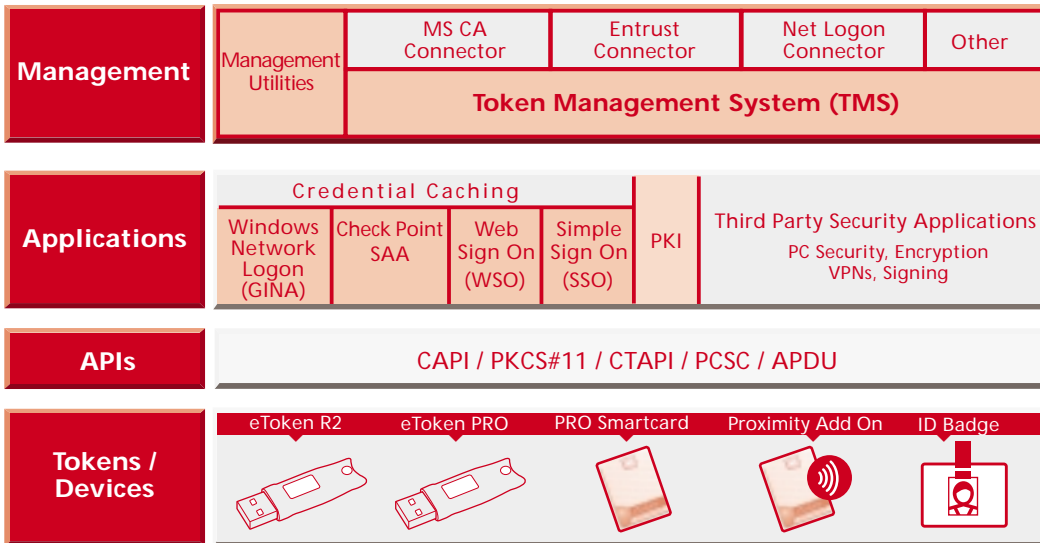
## [ Transaction and Document Signing (Non-repudiation) ]

Transactions and documents can be digitally signed with eToken through PKI technology, ensuring the authenticity of electronic transactions.



# eToken Product Offerings

eToken offers a robust framework for integration with many of today's leading technology companies, providing organizations with a variety of applications to meet their specific needs.



## > eToken Enterprise Security Solutions

### PKI Solutions

eToken provides strong 2-factor challenge/response authentication using PKI keys and certificates. It operates with any standard PKI aware application, using either PKCS#11 or Microsoft CAPI. Full support is available for applications such as: Network Logon via Microsoft Smartcard Logon, Novell NMAS or Entrust Entelligence Security; Secure Web Access via standard web browser security using advanced Secure Sockets Layer V3; Remote Access VPN Authentication with Cisco, Check Point, Microsoft, SSH and many other leading systems; Signed and Encrypted Emails using mainstream email systems such as Outlook, Netscape, and Eudora; Document Signing using Adobe Acrobat and other document signing systems.

### WSO (Web Simple Sign On)

eToken's WSO application securely stores and manages a user's web logon credentials, IDs and passwords. It automatically fills in logon details after their eToken password has been entered. No changes need to be made to the web application and only authorized people are granted access to sensitive online information.

### SSO (Simple Sign On) – Secure Credential Caching Solutions

eToken SSO simplifies the logon process to restricted applications by securely storing and presenting digital identity credentials when required. This greatly simplifies the logon process, reduces password management time and enhances user productivity. The eToken SSO enables the caching of access credentials to any standard Windows logon screen such as Notes, RAS Dialers, VPN Clients, etc. All a user needs to do is present one simple eToken password to access all his login credentials.

### eToken for Network Logon

The eToken Network Logon solution provides a low-cost method for implementing hardware-based network authentication. This includes domain name combinations, usernames, and authentication passwords, as well as PKI keys and certificates. A user authentication password can be randomly generated and users will not need to remember it (supporting both Microsoft GINA and Novell Netware).





## eToken Management Solutions

### > TMS (Token Management System)

The Aladdin Token Management System is a complete framework for managing all aspects of token assignment, deployment and personalization within an organization. Built on open standards and Active Directory, TMS allows you to manage your authentication tokens through simple plug-ins, centrally push software updates, and inject and revoke eToken credentials. Linked directly to the existing organizational user management systems, the TMS offers a robust and flexible link between the user, the security application, the authentication device used and the organizational rules.

### eToken Utilities

eToken Utilities provide administrators with a basic set of applications to administrate and set token policies. The utilities include: a *properties* tool, enabling users to perform basic token management such as password changes, viewing of information, etc; an *application viewer* tool, allowing users and administrators to view profiles and certificates on the eToken; a *formatting* tool, allowing administrators to format the eToken according to specific organizational requirements or security modes; a *certificate converter* tool, providing users and administrators a quick and easy way to transfer digital certificates and keys between a computer and an eToken; a *password quality* tool, enabling the manipulation of the parameters which calculate an eToken's password quality rating; and a *vendor ID* tool, allowing the signing of the eToken with corporate signatures.

## eToken Development Tools

- > eToken SDK (Software Developer's Kit) allows software developers to integrate eToken security functionality into their applications. This user-friendly SDK includes a set of industry standard APIs and supporting documentation, enabling seamless integration with third-party applications. The eToken SDK uses standard security interfaces for Windows, Linux, Microsoft CAPI, and PKCS#11 interfaces. Special 16-bit libraries enable integration with boot protection security solutions requiring logon prior to operating system loading.

## eToken-Enabled Third-Party Applications

- > eToken integrates with a variety of third-party applications from leading security companies. The *eToken Enabled* designation given to our partners' applications means that through integration with the eToken, they offer a complete security solution for that specific need.

Partner	Boot Protection	Disk Encryption	File/ Folder Encryption	Email Encryption	PKI Infrastructure	Single Sign On	VPN Client	Web & Remote Access	Network/ Workstation Logon
Check Point							▶	▶	
Cisco							▶		
CA					▶	▶			
IBM						▶		▶	
Microsoft				▶	▶		▶	▶	▶
Novell						▶			▶
PGP			▶						
Pointsec	▶	▶	▶						▶
RSA					▶			▶	
SAP								▶	
Utimaco	▶	▶	▶	▶	▶				
VeriSign					▶				
Entrust			▶	▶	▶			▶	▶

\*Partial list



# Choosing the Right eToken

eToken's interchangeable form factors allow organizations complete flexibility to meet their individual needs. From USB tokens for PCs and remote environments, to Smartcards for access control and identity badges – eToken's accessibility, efficiency and portability mean it's the smart choice for organizations looking to stay ahead in today's ever changing, digitalized world. All devices support the same security interfaces and work seamlessly with both Enterprise and SDK security applications.

<b>eToken Pro (USB) &gt;</b>	
eToken PRO is a USB, readerless Smartcard. It is a low cost device that enables strong, 2-factor authentication and is easy to deploy. eToken PRO's secure, on-board RSA 1024-bit key operations enable seamless integration into any security or PKI architectures.	
<b>eToken Pro (Smartcard) &gt;</b>	
eToken Pro Smartcard offers the same functionality as eToken Pro USB, but its shape is that of a traditional credit card form factor. The eToken Smartcard is operable with a standard Smartcard reader.	
<b>eToken R2 &gt;</b>	
eToken R2 is a USB device that is ideal for secure storage of users' private keys and access credentials. Featuring onboard 120-bit DESX encryption, the R2 combines high security with ease of use.	
<b>Proximity (Physical) Access &gt;</b>	
The eToken Smartcard is ideal for combining ID badges for visual identification, with physical access and logical access to networks. Proximity technology can be integrated with both Token and Smartcard form factor	



## eToken Certifications

The Aladdin eToken meets the highest industry standards and certifications.

### > Product Certifications:





# Technical Specifications

## eToken PRO USB Specifications

<ul style="list-style-type: none"><li>• Operating systems</li><li>• API &amp; Standards Support</li></ul>	Windows 95 (OSR2)/98/98SE/Me/2000/XP, and Windows NT4.0 SP4 and later PKCS#11 v2.01, CAPI (Microsoft Crypto API), Siemens/Infineon APDU commands PC/SC, X.509 v3 certificate storage, SSL v3, IPSec/IKE
<ul style="list-style-type: none"><li>• Models (by memory size)</li><li>• On board security algorithms</li><li>• Security level</li><li>• Speed</li></ul>	16K, 32K RSA 1024-bit, DES, 3DES (Triple DES), SHA1, (MD5 - optional) ITSEC LE4 (Infineon and Siemens), FIPS 140-1 level 2 & 3 RSA 1024-bit signature approx. 1 second RSA 1024-bit key generation approx. 11 seconds
<ul style="list-style-type: none"><li>• Dimensions</li><li>• ISO specification support</li><li>• Weight</li><li>• Power dissipation</li><li>• Operating temperature</li><li>• Storage temperature</li><li>• Humidity rating</li><li>• Water resistance certification</li><li>• Connector</li><li>• Casing</li><li>• Memory data retention</li><li>• Memory cell rewrites</li></ul>	47 x 16 x 8 mm (1.85 x 0.63 x 0.31 inches) Support for ISO 7816-1 to 4 specifications 5g 120mW 0 C to 70 C (32 F to 158 F) -40 C to 85 C (-40 F to 185 F) 0-100% without condensation IP X8 – IEC 529 USB type A (Universal Serial Bus) Hard molded plastic, tamper evident At least 10 years At least 500,000



## eToken PRO Smartcard Specifications

<ul style="list-style-type: none"><li>• Operating systems</li><li>• API &amp; Standards Support</li></ul>	Windows 95 (OSR2)/98/98SE/Me/2000/XP, and Windows NT4.0 SP4 and later PKCS#11 v2.01, CAPI (Microsoft Crypto API), Siemens/Infineon APDU commands PC/SC, X.509 v3 certificate storage, SSL v3, IPSec/IKE
<ul style="list-style-type: none"><li>• Models (by memory size)</li><li>• On board security algorithms</li><li>• Security level</li><li>• Speed</li></ul>	32K RSA 1024-bit, DES, 3DES (Triple DES), SHA1, (MD5 - optional) ITSEC LE4 Smartcard security certification (Infineon and Siemens) RSA 1024 bit signature approx. 1 second RSA 1024 bit key generation approx. 11 seconds
<ul style="list-style-type: none"><li>• ISO specification support</li><li>• Memory data retention</li><li>• Memory cell rewrites</li></ul>	Support for ISO 7816 1 to 4 specifications At least 10 years At least 500,000

## eToken R2 USB Specifications

<ul style="list-style-type: none"><li>• Operating systems</li><li>• API &amp; Standards Support</li></ul>	Windows 95(OSR2)/98/98SE/Me/2000/XP, Windows NT4.0 SP4 and later PKCS#11 v2.01, CAPI (Microsoft Crypto API), PC/SC, X.509 v3 certificate storage, SSL v3, IPSec/IKE
<ul style="list-style-type: none"><li>• Models (by memory size)</li><li>• On board security algorithms</li><li>• Smartcard Chip security level</li><li>• Dimensions</li><li>• Weight</li><li>• Power dissipation</li><li>• Operating temperature</li><li>• Storage temperature</li><li>• Humidity rating</li><li>• Water resistance certification</li><li>• Connector</li><li>• Casing</li><li>• Memory data retention</li><li>• Memory cell rewrites</li></ul>	16K, 32K DES-X 120-bit Secured and encrypted EEPROM memory chip 47 x 16 x 8 mm (1.85 x 0.63 x 0.31 inches) 5g 120mW 0 C to 70 C (32 F to 158 F) -40 C to 85 C (-40 F to 185 F) 0-100% without condensation IP X8 – IEC 529 USB type A (Universal Serial Bus) Hard molded plastic, tamper evident At least 10 years At least 100,000

## About Aladdin

Aladdin (NASDAQ: ALDN) has been a leader in digital security since 1985, providing solutions for software commerce and Internet/network security. Aladdin has been granted 18 patents, with 60 pending.

Internet and Enterprise Security: eToken, a USB-based device for cost effective, strong user authentication and eCommerce security; eSafe, a proactive content security solution, protects PCs and networks against malicious, inappropriate and non-productive Internet-borne content.

Software Commerce: Over 25,000 developers/publishers worldwide use Aladdin to protect and distribute their software. Privilege, a leading software licensing and distribution platform; HASP and Hardlock, hardware-based software security systems, protect developer revenues.



For more info: [eAladdin.com/eToken](http://eAladdin.com/eToken)

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