



**E-BUSINESS SOLUTIONS**  
**PORTABLE PKI FOR ONLINE WEB APPLICATIONS**

# eToken™

YOUR KEY TO eSECURITY

## Securing OnLine Web Services with Secure Sockets Layer (SSL) v3

Modern browsers allow organizations to expand their business model securely to include online commerce and security-related services. Organizations can now rely on the existing browser security infrastructure to provide both authentication and digital signature functionality, without the need to install additional dedicated software clients.

By implementing strong user authentication and access control systems, companies can insure that only authorized users access this online information. Practical examples of secure Web services applications might include:

- Online banking transactions
- eCommerce transactions: 3DSET, 3DSSL, OTN payment models
- Online access to medical records and information
- Remote access to network resources
- Online student registration
- Database access
- Business-to-Business portals
- Customized reseller Web sites

### Features

#### eToken

- eToken PRO - RSA 1024 / 3-DES / SHA-1
- Secure Storage of Private Credentials
- On-Board Cryptographic Processing
- Strong Two-Factor Authentication & Non-Repudiation Support
- Standard USB Connectivity
- Standard Connectivity to Multiple Business Applications (CAPI, PKCS#11)

#### SSL Transactions

- SSL v3 PKI
- Secure Web Logon
- Digital Signature Support
- 1024-bit RSA Key Support
- Server/Client Two-Way Authentication
- Support for Microsoft Explorer and Netscape Clients
- LDAP Connectivity on Server
- PKI Support

### Benefits

- Seamless integration between Aladdin's eToken and online Web Browsers
- Maximum security and interoperability for PKI transactions
- Two-factor authentication for stronger user authentication security
- Enhanced Web site access security, protection and authentication ensures peace of mind
- Maximum security for electronic transactions, such as online shopping or banking with digital signatures
- Support for most major CA certificates

## eToken Enables Two-Way Authentication

### User Authentication

eToken enables a user to authenticate to a Web server using the browser's authentication mechanism SSL v3. No other customer, Web surfer or hacker should be able to enter your account site and access your confidential data. Web browsers using SSL v3 technology can authenticate using PKI keys and certificates.

### Server Authentication

Using standard SSL v3 browser technology, users can now verify that the Web sites they are accessing are who, they claim to be, using digital certificates. For example, when giving your credit card details to an online shopping service, you need to be sure that the operator is a legitimate one and that he will not use your credit card details for fraudulent purposes.

### Digital Signatures

A digital signature is created using the private key of an individual to ensure the validity of his request. This technology can be used to guarantee non-repudiation of various transactions. The strength of either the authentication level or the digital signature relies on the level of protection offered to the private key. eToken PRO offers the maximum level of security, since it enables the use of a private key for signing and authenticating inside the eToken.

## eToken Web Security Solutions

eToken provides strong, two-factor authentication for secure online services. Because eToken plugs into any USB port, you can access protected Web sites from any machine, anywhere in the world.

### Secure Sockets Layer (SSL)

SSL transactions are conducted through a private session between client and server, using the Secure Sockets Layer (SSL) v3 protocol. SSL is built into all major browsers and Web servers. After SSL server certificate installation, administrators can then specify server access by certificates and/or users. A client may request and install an SSL browser certificate, granting authentication and the establishment of secure SSL sessions.

eToken utilizes two-factor authentication. For authorized access to the Web site specified in the SSL certificate stored on the eToken, the user must both connect the eToken and enter its individual eToken password. This ensures strong protection for user credentials. Browsers such as Internet Explorer and Netscape can be easily configured to store a user's SSL browser certificate directly on an eToken. Both the eToken R2 and the eToken PRO are compatible with SSL v3. Digital signatures use the private key on the eToken to guarantee non-repudiation. eToken supports most major CA's.

For more information about eToken, visit: [www.eAladdin.com/eToken](http://www.eAladdin.com/eToken).



International T: +972 3-6362222, F: +972 3-5375796, etoken@eAladdin.com North America: T: 1 800-562-2543, 1 847-808-0300, F: 1 847-808-0313, etoken.us@eAladdin.com UK T: +44 1753-622-266, F: +44 1753-622-262, etoken.uk@eAladdin.com  
Germany T: +49 89-89-4221-0, F: +49 89-89-4221-40, etoken.de@eAladdin.com Benelux T: +31 30-688-0800 F: +31 30-688-0700, etoken.nl@eAladdin.com France T: +33 1 41 37 70 30, F: +33 1 41 37 70 39, etoken.fr@eAladdin.com Israel T: +972 3-6362313, F: +972 3-6362318, etoken.il@eAladdin.com Brazil T: +55 21-235-2499, F: +55 21-236-0768, etoken.br@eAladdin.com  
Japan T: +81 426-607-191, F: +81 426-607-194, etoken.jp@eAladdin.com Russia T: +7 095-923-0588 F: +7 095-928-6781, etoken.ru@aladdin.com Spain T: +34 91-375-99-00 F: +34 91-754-26-71, etoken.es@eAladdin.com

