

Token

your ultimate authentication solution




Token

Different Authentication Solutions for Business

Sure offers you the State of the art Authentication Techniques to access the digital business resources securely. Using the three factor authentication technologies, SURE support most environments and enable the following solutions and Applications:

Smart USB Token Applications:

1. Create cryptographic-based applications such as:

- A. Data Encryption/Decryption
- B. Data Hashing
- C. Data Signing/Verification
- D. Keys and Certificate management and exchange
- E. Secure data storage

2. Add cryptographic support to their application such as:

- A. Encryption/Decryption/Signing/Verification/Hashing
- B. Secure login and User Identification
- C. User rights managements

3- Public Key Infra-structure environment deployment the following application

- A. Mail encryption & signing
- B. Authentication.
- C. Document signing
- D. Virtual private network authentication.
- E. File encryption/decryption application
- F. Wireless network authentication.
- G. Secure messaging
- H. Domain authentication

4- Online Services such as:

- A. Online banking.
- B. E-Commerce
- C. Healthcare Online Services.
- D. E-learning solution.
- E. E-GOV online services.

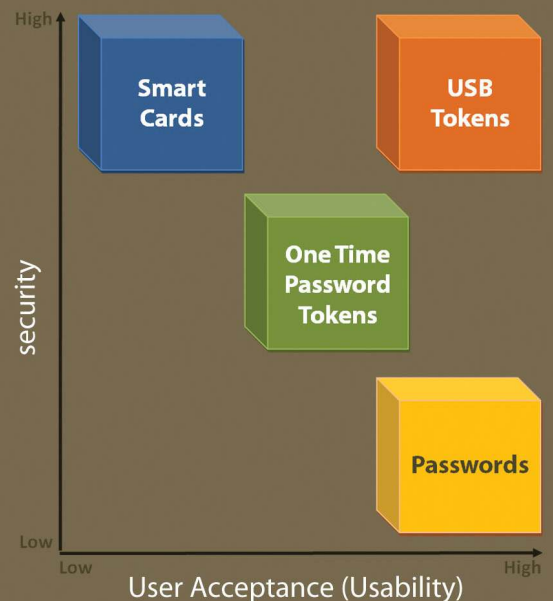
With SURE Smart Token:

- Reduce Threats and risk with SURE strong authentication
- Manage your business in secure, Trust and Efficient Manner
- Prevent data theft and fraud
- Enable compliance to industry regulations in Information security

SURE USB Token belongs to a new generation of IT security products, designed for cost effective use in IT security systems. It combines the security features of an advanced PKI solution on a secure hardware chip with the advantages of USB devices. The token is small, light, and so conveniently sized that it fits on a key chain. It requires no additional reader since it connects directly to the PC via USB interface.

Comparing with Other Means of Authentication:

We note the USB Token is more Secure and more usable. (Source IDC)



SURE Smart USB Token Benefits :

- Multiple Purposes: No maintenance, never expires, requires no battery replacement, Reduces administrative overhead by eliminating the cost of maintaining and supporting a desktop-based client
- Simple: Plug and play simplicity for users, with no Client software installation
- Strong Security: onboard authentication and multifactor Authentication.
- Portability : Fully portability for using SURE Smart Token
- Standardization: standard USB interface and Support for multi-platforms

What The Problem?

The Problem of Identity Theft:

Passwords remain a fundamental security weakness, regardless of the strength of the password policy.

Source: Gartner report, "Assess Authentication Methods for Strong System Security,"

- Passwords Are Not Enough
- Passwords are easily stolen, lost, shared, and cracked
- They are not secure and are costly to manage.
- Unauthorized individuals accessing enterprise resources are a real threat .

SURE Smart Token Solution :

Strong Authentication Through Three Factors Authentication:

Authentication – the three "What's"



Something you have
The Smart Token device



Something you are
your finger print



Something you know
The Smart Token PIN

Strong Authentication means using two or more authentication methods.

The Bio Token combines USB PKI token and fingerprint sensor with image processing and verification processor in a single device.

Strong authentication provides the confidence that people accessing securely your network and data.

SURE Smart USB Token Features :

- Full compatibility with standard USB interface
- Support for multi-platforms
- No battery required
- Standards Supported: PKCS#1, PKCS#5, PKCS#7, PKCS#8, PKCS#10, PKCS#11, PKCS#12, X.509, CSP, FIPS140-2-L2
- On Board key generation , finger print recognition, authentication and digital signing
- Highest security 2 and 3 (biometric) factors authentication
- Compatible with Many Interfaces: PKCS#11, CSP, SURE SDK
- PKI certificate-based strong authentication ensures protection from phishing and man-in-the-middle attacks
- Support RSA (512-2048), DES, 3DES, AES, MD2, MD5, SHA1, SHA256, SHA384, SHA512 and HMAC.

Technical Specifications and Common Products Specification

1. Supported Operating Systems: Windows 98, ME, 2K, XP, windows 2003, Vista , Windows 7.
2. Interfaces: PKCS#11, CSP, SURE SDK
3. Hardware Interface: USB/HID (no device driver is required)
4. Supported Standards: PKCS#1, PKCS#5, PKCS#7, PKCS#8, PKCS#10, PKCS#11, PKCS#12, X.509, CSP, FIPS 140-2-L2
5. On Board Security:
 - a. Supported Cryptographic Operations
 - i. Encryption/Decryption
 - ii. Signing/Verification
 - iii. Hashing/Key Hashing
 - iv. Key Wrapping/Unwrapping
 - v. Key Generation
 - vi. Key Derivation
 - b. Supported Cryptography Algorithms
 - i. RSA (5122048)
 - ii. DES
 - iii. 3DES (8, 16, 24 Bytes Key)
 - iv. AES (16, 24 and 32 Bytes Key)
 - v. MD2
 - vi. MD5
 - vii. SHA1
 - viii. SHA256
 - ix. SHA384
 - x. SHA512
 - c. Key Generation
 - i. RSA (5121024)
 - ii. DES
 - iii. 3DES (8, 16, 24 Bytes Key)
 - iv. AES (16, 24 and 32 Bytes Key)
 - d. Key Derivation
 - i. PKCS#5 Version 1.5
 - ii. PKCS#5 Version 2.0
 - iii. PKCS#12 for Keys, IVs and HMAC Keys
 - e. Key Wrapping and Unwrapping
 - i. X.509
 - f. AES Random Sequence Generation
6. Supported Storage:
 - a. 10 permanent and 5 session RSA key slots
 - b. 40 permanent and 20 session RSA key slots
 - c. 100 KB Public and Private Memory
7. Allow up to 20 concurrent sessions
8. Implementing DH(Diffie-Hellman) secure communication between software and hardware layers
9. API & Standards Supports the following interfaces:
 - a. RSA PKCS#11 interface library
 - b. Microsoft CSP interface library
 - c. SURE SDK interface library
10. Fingerprint recognition

The SURE Token family of devices includes:

2 Factor Authentication Token (SURE - Token)



3 Factor Authentication Token(SURE Bio- Token)



About
SURE

International Technology was first found in 2004, where this foundation came along with the growth of the information technology sector needs in both local and regional market. SURE International Technology has spent remarkable efforts to apply universal standards in the implementation of technical projects, which emphasizes its effect in the local market. SURE International Technology is considered one of the fastest growing companies in the field of information technology and technical consultations. SURE is proud to embrace a group of IT specialists, that form the team work of SURE, who are having the best scientific and practical expertise.