

# SafeGuard® Device Encryption

Strong Data Security for Laptops, Desktops and Removable Media



## Strong Data Security for Laptops, Desktops and Removable Media

### Data loss or theft is a problem

The loss, theft, or misuse of electronic devices causes substantial financial losses every year. Companies and government organizations that store their sensitive data on mobile devices including laptops, and removable media are especially affected. Encryption protects your data from loss or theft.

### Device encryption safeguards your data

SafeGuard Device Encryption prevents unauthorized access to mobile and stationary end-point devices. Encryption is completely transparent to users. If the end device falls into the wrong hands, the data is unreadable even if the hard disk is removed. SafeGuard Device Encryption also provides protection for removable media.

### World's First Smart Media Encryption

SafeGuard Device Encryption is the only solution in the world whose Smart Media Encryption allows sector- or file-based encryption of entire exchangeable data media in a single product. Smart Media Encryption allows a mix of unencrypted or encrypted data to be stored and managed on any media. Data exchange between employees and business partners has never been this secure and easy.

### Scalable enterprise solution

SafeGuard Device Encryption is a functional module of SafeGuard Enterprise – a centralized solution for managing data security in mixed IT environments.

Over 20 years of experience has gone into developing these powerful high-security technologies. Multi-platform key management and encryption algorithms that have proven themselves in use throughout the world guarantee reliable protection for your end devices in all their operating states. Whether it is to protect a few laptops, or 10,000 PCs, the seamless integration of SafeGuard Device Encryption and the SafeGuard Management Center takes all of the hard work out of defining, implementing and enforcing your security policies.

**SafeGuard Enterprise – Your central key to Data Security.**

## About Utimaco – The Data Security Company.

Utimaco is the leading provider for data security solutions. The Data Security Company enables mid-sized to large organizations to safeguard their data assets against attacks and to comply with privacy laws by protecting their confidentiality and integrity. Utimaco's complete range of solutions provides full 360° protection unlike free, end-point or built into encryption solutions which only cover specific security needs. Its advanced SafeGuard Solutions help to manage and secure data in what ever conditions: during storage (data at rest), during transmission (data in motion) and during processing (data in use). Utimaco offers its customers comprehensive on site support via a worldwide network of partners and subsidiaries in Europe, the USA and Asia. For more information, visit [www.utimaco.com](http://www.utimaco.com)

## Key Features

### Unmatched data security

- Protects data on notebooks, desktops, servers, removable media including USB sticks, memory cards, CD/DVDs
- Full-disk or file-based encryption allows encrypted data only or a mix with plain data
- Proven encryption algorithms to maximize security and performance
- Suspend to disk and hibernation files are encrypted for maximum security

### Easy to use

- High performance, user transparency
- Secure password recovery-phone, web
- Single-sign-on to the operating system
- Customized graphical login screen

### SafeGuard Keyring secures teamwork

- Secure sharing of encrypted data
- Only authorized users can access the data wherever it is stored

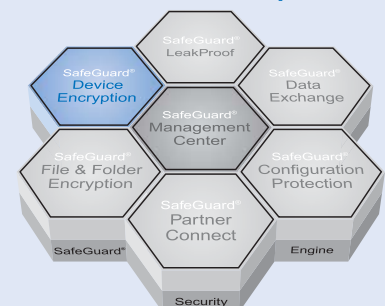
### Powerful central control

- Central administration, logs & reports
- Centrally managed, unattended installations with no user interruptions

### Groundbreaking modular architecture

- Integration with Microsoft Active Directory® service
- Supports Windows Vista™ BitLocker™ Drive Encryption
- XML/SOAP based communication. No firewall reconfigurations. Automatic load-balancing of services
- 3rd party authentication supports smartcards, tokens, and Trusted Platform Modules
- Grows with your needs with additional SafeGuard Enterprise modules

## SafeGuard® Enterprise



**SafeGuard Device Encryption is a functional module of SafeGuard Enterprise – a centralized solution for managing data security in mixed IT environments.**

**utimaco**®  
s a f e w a r e

# SafeGuard® Device Encryption

## Strong transparent encryption

- Extensive transparent encryption functionality
  - Partial or complete hard disk encryption regardless of file system (e.g., NTFS, FAT)
  - Multi-platform removable media encryption (e.g., floppies, USB drives, memory cards, CD-ROM / DVD-RW)
- Strong, internationally recognized encryption algorithms
- Smart Media Encryption provides maximum flexibility by allowing either a fully encrypted disk or a mix of encrypted and unencrypted files for sharing
- Secure, encrypted hibernation and "Suspend to Disk" mode
- TPM chip used for random number generation
- Encrypted data cannot be read even if hard drives are removed from the PCs, except by security administrators

## Secure user authentication and authorization

- Strong pre-boot user authentication via password, cryptographic token or Smartcard
- Centrally defined, enforced password rules (e.g., forbidden passwords list, extended character sets in passwords etc.)
- Log on delay prevents password penetration attacks by increasing the time between unsuccessful log-on attempts

## Full Support for Windows Vista™ BitLocker™

- Common encryption policies enforceable in mixed OS and device environments
- Centrally manage keys and certificates
- BitLocker™ Drive Encryption selectable as an option
- SafeGuard Enterprise reports on BitLocker device status

## Greater productivity and ease of use

- Single-sign-on to the operating system
- SafeGuard Keyring allows sharing of encrypted media between organizational units
- High-speed encryption/decryption algorithms ensure no perceptible performance degradation
- Transparent background encryption, even during initial installation, ensures no work interruptions
- Quick and secure emergency procedure (challenge/response): recover forgotten passwords over phone or web
- Graphical log on screen customizable with company logos

## Powerful central administration

- Connections to existing directories and domains
- Centrally enforced encryption rules
- Clients that have not contacted the SafeGuard Management Center in a specified time interval can be blocked
- Seamless integration with the Management Center via advanced XML/SOAP protocols
- Secure "Wake on LAN" to allow automated administrative activities e.g., patch management

## Easy centrally managed initial installation

- Installation packages can be distributed and installed centrally and unattended via MSI packages
- Easy roll-out over a network – without involving users

## Data Recovery

- Supports Lenovo® Rescue & Recovery: operating systems on encrypted drives can be restored without decryption
- Support for Windows PE 2.0 as a recovery operating system

## Multi-platform support

- Protects notebooks, desktops, servers, removable media including USB sticks, memory cards, CD/DVDs, floppies
- Multi-platform key management and authentication

## Logging and reporting

- All client activities/status and security events are logged and stored locally and centrally. Type of logs and storage location are user-defined
- Administrators can filter, view and print log reports on the Management Center console

## Standards and Protocols

- Symmetrical encryption: AES 128/256 bit,
- Asymmetrical encryption: RSA
- Hash functions: SHA-1, SHA-256, SHA-384, SHA-512
- Passwords, padding, PKCS #1, PKCS #5
- Smartcard/token: PKCS #15, PKCS #11, Microsoft Cryptographic Service Provider (CSP), PC/SC, Kerberos
- PKI: PKCS #7, PKCS #12, X.509 certificates
- Data transfer: SOAP, XML, SSL, LDAP

## Interoperability

- Compatible with standard software distribution systems
- Smartcards and tokens integrated via PKCS #11 & CSP
  - Smartcards: ActivIdentity®, RSA®, keyboards with integrated smartcard readers from Cherry, Dell®, HP
  - Tokens: Aladdin® eToken
- Supports IT and security standards including LDAP, X.509, AES, PKCS, XML, SOAP, SSL, TCG

## Operating system

- Microsoft Windows XP
- Microsoft Windows Vista™

## Certifications

- FIPS 140-2
- Common Criteria EAL-4 (in process)
- Aladdin eToken enabled



## Language versions

- English, German, French, Spanish, Japanese
- Unicode-based support for local languages

## More information

- Visit our website ([www.utimaco.com/sgn](http://www.utimaco.com/sgn)) for datasheets on all other functional modules of SafeGuard Enterprise, FAQs and data security whitepapers

## Contact

### EMEA

Utimaco Safeware AG  
Hohemarkstrasse 22  
DE-61440 Oberursel  
Germany  
Phone +49 (61 71) 88-14 44  
[info@utimaco.com](mailto:info@utimaco.com)

### NORTH & SOUTH AMERICA

Utimaco Safeware Inc.  
10 Lincoln Road  
Foxboro, MA 02035  
USA  
Phone +1 (508) 543-1008  
[sales.us@utimaco.com](mailto:sales.us@utimaco.com)

### ASIA PACIFIC

Utimaco Safeware Asia Ltd.  
Unit 602, Stanhope House  
734 King's Road, Quarry Bay  
Hong Kong  
Phone +852 2520 2608  
[info@utimaco-asia.com](mailto:info@utimaco-asia.com)

### JAPAN

Utimaco Safeware K.K.  
Nisso 16 Building, 3F  
3-8-8 Shin Yokohama, Kohoku-ku  
Yokohama 222-0033  
Japan  
Phone +81 (0) 45 470-1430  
[info.jp@utimaco.jp](mailto:info.jp@utimaco.jp)

[www.utimaco.com](http://www.utimaco.com)

Utimaco Safeware Partner:

## Copyright Information

© 2006-2008 – Utimaco Safeware AG

SafeGuard® Device Encryption version 5.21

All SafeGuard products are registered trademarks of Utimaco Safeware AG.

All other named trademarks are trademarks of the particular copyright holder.

(Individual functions may have different characteristics according to the different capabilities of the operating systems).

**utimaco**®  
s a f e w a r e