File Encryption SafeIT

Cost-efficient protection of confidential data

◆ Encryption of files and directories
◆ Encryption of e-mails in Lotus Notes and MS Outlook 2000
◆ User-friendly operation via context menu
◆ Integrated data compression

ROHDE & SCHWARZ

Characteristics and applications

More and more sensitive data is handled and stored on a rapidly growing number of personal computers. The user must apply special protection to such data including, for example, confidential corporate information, personal or customer information, or private notes. Data of this kind is at a very high risk when transmitted in networks (Internet, telephone line/ modem), most of which are not protected. The Encryption Software SafeIT is a cost-efficient tool for protecting such data.

SafeIT can be integrated into existing Windows applications using the context menu of the Windows interface. The tool offers user-friendly operation, clear dialogs and ease of configuration. In conjunction with an optional plug-in, SafeIT can be used for mail encryption in Lotus Notes (Versions 4.5.1 to 4.6x, 5.0) and MS Outlook 2000.

SafeIT can also optionally be integrated into other e-mail applications or equipped with special encryption algorithms. In addition, a programming interface (SafeIT-API) is available, allowing developers to integrate SafeIT security mechanisms into their applications.

Functions

Encryption
After a crypto key has been entered, files or whole directories or directory trees can be encrypted using a strong encryption algorithm. A new key is generated for each file. The encrypted data can be read only if the correct crypto key is known. Potential attacks are made much more difficult since a special double encryption method has been implemented. To save storage capacity, the files are automatically compressed by SafeIT prior to encryption. SafeIT ensures safe data storage as well as secure transfer and exchange of data even via unreliable data lines.

Key management
The program supports the generation and management of keys. Any number of keys can be generated, renamed or deleted via a management register. SafeIT also allows the export of keys into files with the keys being transmitted in electronic form. The key files are encrypted and, after import, decrypted again by SafeIT.

Physical deletion
The physical deletion function overwrites all the selected files or directories with fixed bit patterns in a user-defined number of overwrite cycles and removes them physically from the storage medium.

SafeIT is fully compatible with SITCard-S, the hardware encryption module in PC card format from Rohde & Schwarz SIT GmbH (Order No. 3534.4519), which includes a physical random generator for key generation and a secure key memory in addition to the encryption mechanism.

PC system requirements

MS Windows 95/98, Windows NT 4.0, Windows 2000

Ordering information

Encryption Software SafeIT	3534.4260
Material supplied	software and manual on CD-ROM

ROHDE & SCHWARZ