

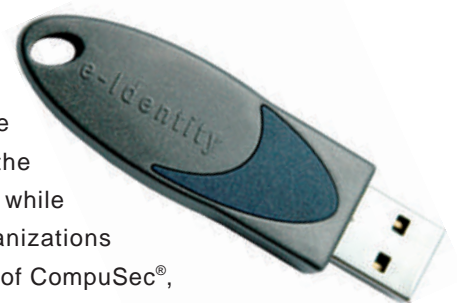
CompuSec[®] e-Identity[®]

Security for Notebooks & Desktop PCs

CompuSec[®] e-Identity[®] is a Security Suite that protects Notebook and Desktop PCs. It provides Access Control, Single Sign On, Hard Disk Encryption, CD encryption, file encryption, network encryption and VoIP encryption. CompuSec[®] e-Identity[®] uses PKI technologies and comes with an e-Identity[®] security device, a smart card with USB reader or an USB token.

CompuSec[®] is made for customers who want more than just a password protection. The high level of security achieved is combined with a flexible and transparent mode of operation. Individuals, small groups of users as well as large enterprises use the product. CompuSec[®] e-Identity[®] combines a set of often-needed security functions, while providing users the option to configure the product to their own needs. Large organizations will also find a host of special functions to efficiently manage a large implementation of CompuSec[®], such as unattended installation, centralized rollout, support for disk images, central software distribution, service functions and central user management.

CompuSec[®] uses new technologies developed by CE-Infosys to provide functionalities previously unknown to PC security products, such as Pre-Boot USB access, the use of PKI technology before a system boots and the support for Hibernation mode.



Pre-Boot-PKI

CompuSec® uses a newly developed Pre-Boot-PKI technology to manage the access to the hard disk of a computer. This allows multiple users access to a single machine as well as access for a single user to multiple machines. The management of user is easily performed by the GlobalAdmin station for large organizations, or by the installation program for small user groups or individuals.



Password Management

The password strategies can be defined according to the organizational need. This includes password lifetime, password usage count, password change options, minimum and maximum length and more. In situations where passwords are forgotten, a challenge-response procedure with the GlobalAdmin station provides an easy and secure method for users to obtain their new password.

Enter Password Here :

Single Sign On

Two alternatives for single sign on are provided. In the first method, the e-Identity® of the user stores the system logon password together with the user ID and the domain name. This replaces the traditional logon procedure at the operating system. The second and more advanced method provided by CompuSec® e-Identity® uses a digital certificate of the user together with its private key inside the e-Identity®. This certificate-based logon at the domain server is the preferred way for domain users and is fully integrated into the Microsoft operating systems. The certificate based Single-Sign-On requires the GlobalAdmin station which may be used as a full Certification Authority (CA). Lotus Notes users will store their ID file in the e-Identity® and also use the certificates of the e-Identity®.



Hard Disk Encryption

The hard disk encryption of CompuSec® e-Identity® uses a fast implementation of the AES algorithm. This encryption includes the operating system. Multiple Operating systems are supported on a single computer. The initial encryption can be performed before the computer is used by the user or transparent while the user is using the PC. The latter which is Background-Encryption allows the user to interrupt the encryption process and shut down the computer at any time. The support of the Hibernation mode is very important to mobile users. In Hibernation, the contents of the computer RAM are written to the disk and the computer shut down. When restarted, the contents in the RAM are reloaded from the hibernation file and the user can continue to work. This is faster and allows the user to shut down in the middle of an application. So far, most hard disk encryption products could not support this mode and disabled hibernation. CE-Infosys is the first company providing support for hibernation mode with its product line.



Encryption of Diskettes, CD-ROM & Removable Media - CDCrypt

Diskettes, CD / DVD and removable media devices such as Memory Sticks and USB thumb drives can be encrypted by CompuSec® e-Identity®. The encryption for CD / DVD uses the CDCrypt feature to support internal and external CD burners that are connected using USB or IDE. With central administration, an encryption policy may define whether a user may or may not switch the mode from encrypted to non-encrypted when using such devices. As such, an organization can easily enforce a policy to use only encrypted Diskettes, Removable Media Devices and CD-RW / CD-R / DVD to minimize the threat of data theft. Such encryption is unobtrusive and does not change the way the user works with these devices.



Encryption of Individual Files - DataCrypt

CompuSec® e-Identity® includes a module that enables users to encrypt individual files called DataCrypt. DataCrypt will enable users to encrypt their messages and send them via email, ftp etc. The data will travel safely over whatever medium chosen to allow CompuSec® users to safely exchange files. DataCrypt can also be used as a software module and can be forwarded to other users without a license free of charge. DataCrypt employs Public-Key-Cryptography based on elliptic curves to generate keys for encryption and decryption. DataCrypt also uses a new technology called 'Sealing' that will hide all structures in the header of the encrypted file, giving additional protection against 'traffic analysis' on the network.



Email Signing & Encryption

CompuSec® e-Identity® provides the necessary encryption modules to encrypt and sign e-mail using Microsoft Outlook, Outlook Express or Lotus Notes. The required digital certificates for e-mail security are stored in the user's e-Identity®. The cryptographic software comes with a signed Cryptographic Service Provider. The e-mail security module uses the S-MIME standard to guarantee the exchangeability with other users not using CompuSec® yet.



Encryption of Server Files & Subdirectories - SafeLan

File and Directory Encryption with CompuSec® e-Identity® can be performed for local or network files and/or directories. This function called SafeLan will ensure that all files written or copied into the encrypted directory will automatically be encrypted and remaining completely transparent to the end user. This also means that a user without an authorized directory key will not have access to the directory and will also be unable to see the files. This function is used to separate users of the same file server in a strong cryptographic way and also ensure that server administrators cannot see the contents of the encrypted files. SafeLan supports NTFS, Novell, FAT and network based file systems.



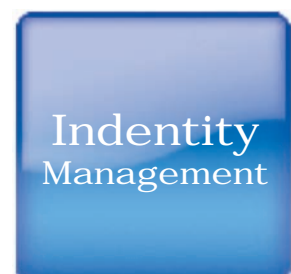
Encryption of Voice Communication - [ClosedTalk]™

[ClosedTalk]™ is a component of CompuSec® e-Identity® used for encrypted voice communication between CompuSec users. The built-in sound system of the computer is used for [ClosedTalk]™. No IP telephone is needed. [ClosedTalk]™ uses Internet to transport the voice data from one user to the other. E-mail addresses are used to contact communication partners. An e-mail address is self-explanatory and easier to remember than traditional phone numbers. [ClosedTalk]™ uses a gatekeeper service to find the communication partner on the network. The Diffie-Hellman key generation protocol is used to provide secure session keys for each talk.



Identity Management

CompuSec® e-Identity® manages the identity of the user for applications. For existing applications requiring passwords, CompuSec® e-Identity® learns the users' passwords, stores them in an encrypted format and automatically inserts the correct password into the application when required. This is available for local and WEB based applications.



Advance VPN Client For Secure Connection To Corporate Networks

CompuSec® e-Identity® provides IP encryption for WAN and LAN users. An enhanced IPSec client is a selectable function of CompuSec® e-Identity®. The IP encryption client supports pool address modes, data compression, multiple dial-in points and other features, which are explained in detail in our IPCryptor product literature. The IP encryption of CompuSec® needs an IPCryptor as counterpart in the network.



Installation & Management

CompuSec® e-Identity® can be installed as a product without a central management station. In this case, CompuSec® e-Identity® creates a security file with all the secret keys of this installation. It is the user's responsibility to keep these keys secret. In larger organizations, a central management is recommended. This GlobalAdmin station manages all the CompuSec® e-Identity® installations and provides functions for unattended installations, automatic software rollout and software update, remote password reset and a complete management of the VPN functions. CompuSec® e-Identity® can be used as an integrated part of a company wide PKI structure. Details are described in the GlobalAdmin product literature. For large customers with multiple locations, a remote e-Identity® loading station is available. A supplementary product for the user help desk is also available to assist support staff with the remote password reset functions. Automatic synchronization with Microsoft user management and Active Directory is provided for the management of CompuSec® e-Identity®.



System Requirements

- PC Notebook or Workstation with Intel Architecture
- Windows 2000, XP or NT (limited functions)
- Linux Red Hat & SuSe Distributions
- 40 MB Free Hard Disk Space
- Build-in Sound Card for [ClosedTalk]™



CE-Infosys GmbH
 Am Kuemmerling 45
 D-55294 Bodenheim
 Germany
 Tel.: +49 (0) 6135 / 77 0
 Fax: +49 (0) 6135 / 77 77
 de.sales@ce-infosys.com

CE-Infosys Pte Ltd
 390 Havelock Road
 # 08-02 King's Centre
 Singapore 169662
 Tel.: +65 6235 8722
 Fax: +65 6235 3164
 sg.sales@ce-infosys.com

CE-Infosys FZ-LLC
 Dubai Internet City
 P.O.Box 500434
 Dubai, UAE
 ae.sales@ce-infosys.com

For more information, please visit our website
<http://www.ce-infosys.com>

CompuSec® & e-Identity® are registered trademarks of CE-Infosys Pte Ltd in Singapore.

Reseller: