



FLEXIBLE SECURITY

SafeSign Identity Client for IGEL Thin Clients and applications

Secure roaming for users with USB tokens and smart cards



IGEL Thin Clients

IGEL Technology GmbH develops, manufactures and markets the full range of Linux-based and Windows-based terminals and thin clients. The company is known especially for its cross-platform product line as well as the development of related innovative firmware and a central remote management suite. In addition to high-quality hardware, the advantages of IGEL Clever Clients particularly include the ability to meet individual customer needs and efficient central client administration.

Business Challenge

While IGEL Thin Clients have made it easier for users to securely access critical information, simply using passwords to

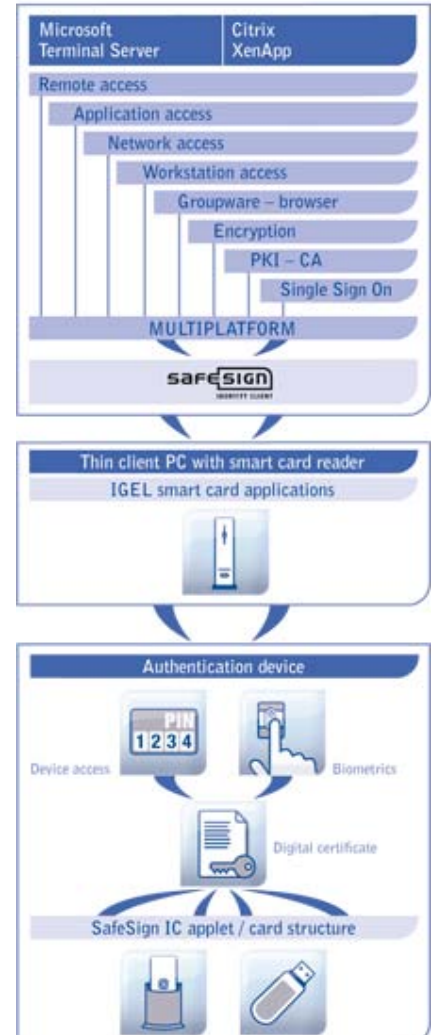
authenticate users can still put a company at risk, especially if Single Sign On is used. And once a session is opened, users want to securely authenticate to applications and even switch workstations while continuing the same session.

IGEL smart card applications & SafeSign Identity Client smart cards

SafeSign Identity Client (IC) & smart cards together with Linux based IGEL Thin Clients offer a unique combination of applications for authentication, access control and personalized desktop environments for the roaming user. SafeSign IC enforces two-factor security, requiring the end user to have both the USB token or smart card (something you

have) and a Personal Identity Number (something you know). USB tokens and smart cards are physically and logically tamper-resistant, ensuring that the end user's digital credentials can not be copied, modified or shared.

OVERVIEW: STRONG AUTHENTICATION WITH SAFESIGN IC AND IGEL



BENEFITS

Session authentication & roaming

Enables users to switch workstations but continue in the same session (session roaming).

Broad application support

Enables the use of USB tokens or smart cards by any application supporting digital certificates.

ROI

Expands the use of software and hardware without changing smart cards or client infrastructure.

Broad user base

SafeSign IC is proven to be reliable by over 14 million users worldwide, from consumer

to enterprise markets, in all industries where information matters.

Management Utility

Full function management utility allows PIN/PUK changes, PIN unblock, token initialization and import of certificates.

Standards based

SafeSign IC supports both Microsoft CryptoAPI and PKCS#11 based applications. Additional standards supported include PC/SC, Java Card, PKCS#12 and PKCS#15.

USB tokens & smart cards

SafeSign IC supports a large selection of USB tokens, smart cards and readers from several vendors.



Session authentication & roaming

The smart card can hold a set of user specific sessions, which can also provide Single Sign On for ICA, Program Neighborhood, RDP and terminal emulation sessions. After smart card insertion and Personal Identity Number (PIN) entry the user has immediate access to any desktop of a well-defined pool of Thin Clients. He sees his individual sessions which might also start automatically. With RDP and ICA it is also possible to reconnect to disconnected sessions so that the user can continue the work at another Thin Client just where he left it when removing the smart card or USB token.

Support for different applications

In environments demanding strong authentication, encryption and/or digital signatures, the smart card can hold x.509 certificates administered and accessed by the SafeSign Identity Client middleware. These certificates can be

used with IGEL Thin Clients for SSL authentication in Mozilla Firefox and within ICA sessions. In this regard Windows Domain Logon with smart card authentication is possible through ICA, and even roaming users connecting to a load-balanced XenApp Farm are supported thanks to integration of the SafeSign IC libraries into the Thin Client firmware.

Flexibility with SafeSign IC

The customer is free to start using smart cards or USB tokens with an easily administrable solution for local access control at the Thin Client. Later he can add applications to the smart cards or USB tokens as the demand grows, up to certificates as part of a PKI solution, without the need to change the smart cards or the client infrastructure. Just upgrade your IGEL smart card applications with SafeSign IC smart card to the full-featured SafeSign IC version.

Card and token management

The SafeSign IC administration utility provides the program administrator with the ability to manage USB tokens, smart cards and the credentials they contain. The administrator can set the card PIN, unblock the card, import and delete digital certificates and keys, and set root certificates. SafeSign IC also provides an end user utility, which allows the user to browse certificates or change the PIN.

Wide range of devices

SafeSign IC supports a wide range of smart cards and USB tokens from a large variety of vendors. This ensures that you can choose the device meeting your specific requirements, whether you need the highest performance, or the most cost-effective solution.



PRODUCT SPECIFICATIONS

SafeSign Identity Client

Operating system: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, MAC OS X, Linux, Sun Solaris, Windows Mobile, BlackBerry

Supported standards: Microsoft CryptoAPI, PKCS#1, 7, 8, 11, 12, 15

Supported applications: SafeSign IC middleware supports all CSP or PKCS#11 compliant applications like:

- Secure remote access
- VPN
- Groupware
- Browsers
- PKI / CA
- Encryption software
- Email & file signing
- Single Sign On
- User authentication
- Remote application access
- smart card logon & session logon

Jakelijanne Suomessa:



Secure Link

Secure Link Oy
Takkatie 14
00370 Helsinki

Myynti: +358 45 67 44 758
myynti@securelink.fi
www.securelink.fi

A.E.T. Europe B.V.
IJsselburcht 3
NL-6825 BS Arnhem
P.O. Box 5486
NL-6802 EL Arnhem
The Netherlands

Phone +31 26 365 33 50
Support +31 26 365 35 43
Fax +31 26 365 33 51
Email info@aeteurope.nl

For more information see our SafeSign Identity Client datasheet at www.aeteurope.com or contact us

www.aeteurope.com

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