



FLEXIBLE SECURITY

SafeSign Identity Client for Sun Ray™ Ultra Thin Clients

Secure roaming for smart card users



Sun Ray Thin Clients

Sun Ray virtual display clients provide customers with an interoperable desktop computing solution that reduces the maintenance, upgrade, and operational costs associated with most desktop environments. The Sun Ray is known for its motto: „Less is more“. A Sun Ray client contains no resident operating system or applications, which makes it virtually immune to viruses and service attacks. And because a Sun Ray client doesn't contain a disk drive or any means of persistent data storage, it's an unattractive target for theft. All applications, documents and data reside on centrally managed servers. The user gains secure access to the environment by using a smart card with PIN or

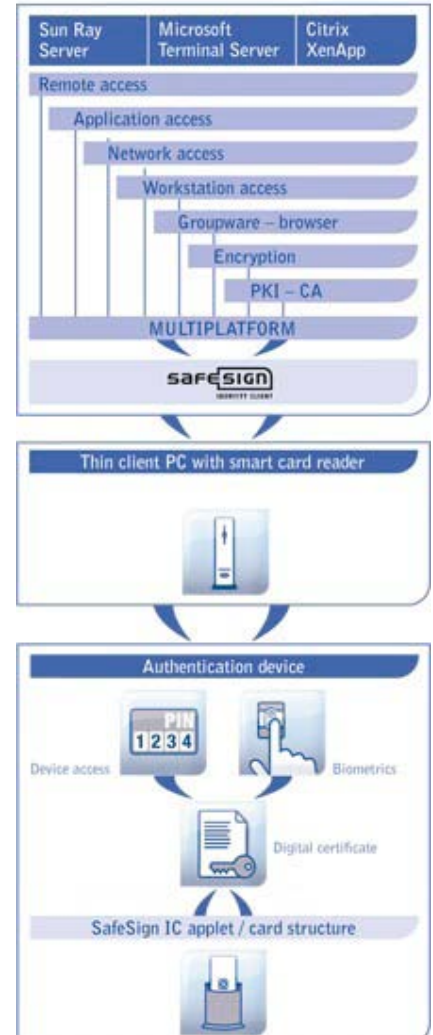
username with password. All information displayed on the screen will disappear the instant the thin client is turned off or the access smart card is removed. By removing the smart card from the Sun Ray, the user can switch workstations but continue in the same session.

Sun Ray & SafeSign Identity Client

SafeSign Identity Client (IC) & smart cards together with the Sun Ray Ultra 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). 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 SUN RAY



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
 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 previous sessions so that the user can continue the work at another Thin Client just where he left it when removing the smart card.

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 Sun Ray Thin Clients for SSL authentication in Mozilla Firefox and within ICA and RDP sessions. In this regard Windows Domain Logon with

smart card authentication is possible through ICA and RDP.

Flexibility with SafeSign IC
 Customers are free to start using smart cards with an easily administrable solution for local access control at the Thin Client. Later they can add applications to the smart cards 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 Sun Ray with SafeSign IC.

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 Myynti: +358 45 67 44 758
 Takkatie 14 myynti@securelink.fi
 00370 Helsinki 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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