



FLEXIBLE SECURITY

# SafeSign Identity Client for Biometrics

3-factor authentication with cryptographic smart cards and USB tokens



## SafeSign IC for Biometrics

SafeSign Identity Client for biometrics (IC Bio) delivers strong multi-factor authentication with cryptographic smart cards and USB tokens using a combination of biometric credentials and/or PIN to secure the certificate on the smart card or USB token. This competent all-rounder in terms of strong authentication, integration and compatibility gives you complete freedom and flexibility.

### Cost effective & flexible

SafeSign IC Bio offers the most comprehensive support available on the market for card operating systems, smart cards, USB tokens, languages and functions. SafeSign IC Bio currently

supports more than 70 different smart cards and USB tokens. Extensive compatibility testing in combination with a strong support team guarantees the correct and continuous operation of smart cards, readers or USB tokens and SafeSign IC Bio.

### Flexible architecture

SafeSign IC Bio has a flexible token authentication architecture with the following features:

- Support for multiple (biometric) authentication methods
- Support for flexible combination schemes for authentication methods
- Multiple token support
- Multiple reader support
- Easy integration of new sensor libraries

- BioAPI compliant
- Easy integration with card management systems such as AET's BlueX
- Easy integration of newer Match-on-Card algorithms

### Credential Manager

As part of SafeSign IC Bio, the Credential Manager performs the vital task of managing the enrolment and verification of credentials for multi-factor authentication tokens. The Credential Manager is launched and operated from the PKCS#11 library. The Credential Manager itself launches the appropriate subsystem required to perform enrolment or verification.

## BENEFITS

### Strong authentication & smart card logon support

The SafeSign IC Bio GINA facilitates smart card logon with biometric devices, enabling multi-factor authentication/ logon to the network, client PC or application, using a USB token or smart card.

### Session authentication & roaming

SafeSign IC Bio supports session roaming when working in Microsoft Terminal Server or Citrix environments.

### Single Sign On & application support

Enables the use of USB tokens or smart cards by any application supporting digital certificates, such as Microsoft, Adobe, Check Point, Citrix and many more.

### Secure transactions & information

Supports the use of tokens for other functionality like encryption and digital signing.

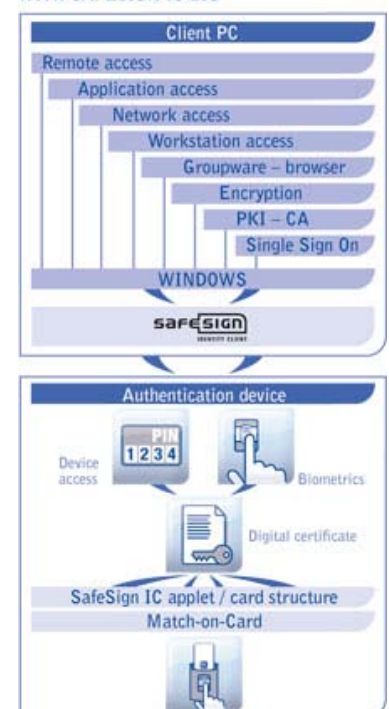
### Standards based

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

### Match-on-Card

SafeSign IC Bio is a Match-on-Card solution, which means that biometric credentials such as a fingerprint are compared with a stored template within the card. Such a template offers vast scalability, higher security and fast matching times.

### OVERVIEW: STRONG AUTHENTICATION WITH SAFESIGN IC BIO





### Multi-factor token profile support

Apart from the default profile (PIN only), SafeSign IC Bio supports a number of standard multi-factor token profiles, with which the supported biometric tokens can be initialized:

- 1 finger
- 1 out of 2 fingers
- 1 out of 3 fingers
- PIN and 1 finger
- PIN and 1 out of 2 fingers
- PIN or 1 finger
- PIN or 1 out of 2 fingers

Other profiles can be created by the administrator.

## SAFESIGN IC BIO PRODUCT SPECIFICATIONS

### Supported operating systems

Microsoft Windows 2000 / XP / 2003 Server

### Interfaces

PKCS#1, 7, 8, 11, 12, 15  
CSP for Microsoft CryptoAPI

### Biometric devices

UPEK TouchChip TCRP /TCRS Combo reader  
id3 Semiconductors CERTIS swipe sensor  
G&D StarSign Bio Token  
Precise Biometrics MC readers

### Card readers

PC/SC compliant smart card readers, like Omnikey, Gemalto, Cherry, SCM Microsystems.

### Supported tokens

A token is a chip with an on-board operating system either integrated into a smart card with ISO 7816 interface or integrated into a device with USB interface (USB token). SafeSign IC Bio supports tokens with:

- Java Card OS 2.2+ like NXP, Giesecke & Devrient, Gemalto, Oberthur, KEBTechnology
- Proprietary OS: STARCOS

Note that only the biometric tokens/configurations can support the multi-factor profiles.

### Supported applications

SafeSign IC Bio middleware is the ideal software for using all important technologies in the field of IT security. It 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
- Workstation access
- Network access
- Wireless network access
- Application access

For details please contact us or visit our website.



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

Whatever your choice will be - with SafeSign Identity Client you are always prepared

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