

SafeSign Identity Client Standard

User Guide for Installation

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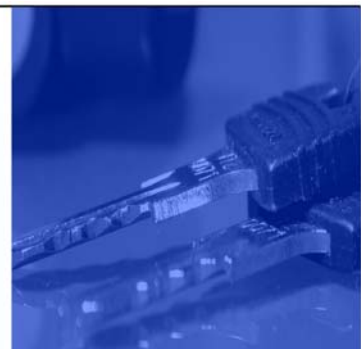
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About the Product

SafeSign Identity Client is a software package that can be used to enhance the security of applications that support hardware tokens through PKCS #11 and Microsoft CryptoAPI.

The SafeSign Identity Client package provides a standards-based PKCS #11 Library and Cryptographic Service Provider (CSP), allowing users to store public and private data on a personal token, either a smart card, USB token or SIM card. It also includes the SafeSign Identity Client PKI applet, enabling end-users to utilise any Java Card 2.1.1 and higher compliant card with the SafeSign Identity Client middleware.

Combining full compliance with leading industry standards and protocols, with flexibility and usability, SafeSign Identity Client can be used with multiple smart cards / USB tokens, multiple Operating Systems and multiple smart card readers.

SafeSign Identity Client allows users to initialise and use the token for encryption, authentication or digital signatures and includes all functionality necessary to use hardware tokens in a variety of PKI environments.

SafeSign Identity Client Version 2.3 for Windows supports the following tokens (as described in the product description):

- STARCOS® smart cards developed by [Giesecke & Devrient GmbH](#) (G&D): SPK2.3, SPK2.3 RawRSA, SPK2.4, SPK2.4 FIPS, SPK2.5 Dual Interface (DI), STARCOS 3.0;
- The G&D StarKey100 (M) and StarKey200 USB token with the completed STARCOS SPK 2.3 / 2.4 operating system;
- The G&D StarKey220 HID token with the completed STARCOS SPK 2.3 operating system;
- The G&D StarKey400 and StarKey400 M (with flash memory) USB token with Sm@rtCafé Expert 64k;
- The Eutron CryptoIdentity / CryptoCombo ITSEC-P with the completed STARCOS SPK 2.3 operating system, and the CryptoIdentity / CryptoCombo FIPS USB token with the completed STARCOS SPK 2.4 operating system;
- The SafeNet iKey 3000 USB token with the completed STARCOS SPK 2.3 operating system;
- The KeyCorp Multos v4.2 48K card and the KeyCorp Multos v4.2 64K card;
- Java Card v2.1.1 / Open Platform 2.0.1 compliant Java smart cards:
- Aspects OS755 v2.8, Axalto e-gate, Axalto Cyberflex Access Developer 32K, Axalto Cyberflex 64Kv1 and 64Kv2, Axalto Cyberflex Palmera, G&D Sm@rtCafé Expert 2.0, G&D STARSIM Java, Gemplus GemXpresso 211pk/Pro R3, IBM JCOP 20/21/30/31, MartSoft Java card, Oberthur CosmopolIC v4 and Orga JCOP 20/30.
- Java Card v2.2+ / GlobalPlatform 2.1.1 compliant Java smart cards:
Aspects OS755 (Java Card 2.2), Atmel ATOP36 (Java Card 2.2), G&D Sm@rtCafé Expert 64, G&D Sm@rtCafé Expert 3.0, G&D Sm@rtCafé Expert 3.1, IBM JCOP21 (Java Card 2.2), IBM JCOP31 (Java Card 2.2), IBM JCOP41, Oberthur IDone Cosmo64 v5.2, Oberthur ID-One Cosmo 64 RSA D/T v5.4 and Oberthur ID-One Cosmo 32 RSA v3.6.

SafeSign Identity Client comes in a standard version with an installer for the following Windows environments¹:

- Windows 2000, Windows XP (Professional), Windows 2003 Server, Windows Vista Ultimate.

In principle, SafeSign Identity Client supports any PC/SC compliant smart card reader. However, to avoid power problems, smart card readers must be capable to provide at least a current of 60mA. PC/SC driver software is available from the web site of the smart card reader manufacturer.

For more information, refer to the latest SafeSign Identity Client Product Description.

¹ Windows NT 4.0 is supported up to SafeSign Identity Client 1.0.9.04, in line with Microsoft's end-of-life policy. Windows 98 and Windows ME are supported up to SafeSign Identity Client 2.3.0 (< 2.3.0), in line with Microsoft's end-of-life policy.

About the Manual

This manual is specifically designed for users of SafeSign Identity Client, who wish to use their SafeSign Identity Client token to enhance the security of their communications via the Internet.


It provides a detailed description how to install the software on your computer, i.e. the different steps needed by the setup program to install SafeSign Identity Client.

In order to install SafeSign Identity Client and to set up your SafeSign Identity Client token for use, follow the instructions in the manual.

Every activity has a number of steps, indicated by the numbers at the left-hand side of the text: **1**

Each step will require you to take a certain action, which is indicated by a: →

Go through these steps and the actions you are required to take, in order to perform the desired activity,

taking into account the notes in **black** with:  and the larger ones in **blue** with:



This document is part of the user documentation for SafeSign Identity Client.

1 Introduction SafeSign Identity Client

When tokens (either in the form of a smart card, USB token or SIM card) are to be deployed in an organisation, stable software that is based on industry standards and protocols is required. This software should provide either a standards-based PKCS #11 and/or Microsoft CryptoAPI (CSP) implementation, fully compliant with leading industry standards and protocols, while being so flexible that it can be used with multiple smart cards / USB tokens, multiple Operating Systems and multiple smart card readers.

The SafeSign Identity Client middleware is designed to integrate digital signature tokens into numerous PKI-enabled applications in order to provide secure two-factor authentication on all major platforms.

SafeSign Identity Client provides a standards-based PKCS #11 and Microsoft CryptoAPI (CSP) implementation, fully compliant with leading industry standards and protocols, while being so flexible that it can be used with multiple smart cards / USB tokens, multiple Operating Systems and multiple smart card readers. Basically any application that either supports PKCS #11 and/or CSP to work with tokens on any of the supported platforms can make use of the benefits and features of SafeSign Identity Client.

1.1 Interface Support

The Netscape Communicator browser supports the PKCS #11 standard as an interface to tokens, such as a smart card. The PKCS #11 standard defines the interface functions and the data objects of any cryptographic device (token), e.g. a smart card.

Note

How these data objects are stored on the smart card is outside the scope of the PKCS #11 standard.

Microsoft Internet applications such as Explorer and Outlook use the Microsoft CryptoAPI to enable such functions as signing and encrypting. CryptoAPI is a Windows Application Programming Interface (API) that provides services that enable application developers to add cryptography and certificate management to their Windows applications. It provides a set of functions that allow applications to encrypt or digitally sign data flexibly, while providing protection for private keys.

1.2 SafeSign Identity Client Features

- Includes SafeSign Identity Client PKCS #11 Library
- Includes SafeSign Identity Client Cryptographic Service Provider (CSP) for applications supporting Microsoft CryptoAPI
- Supports all major standards and interfaces: PKCS #11 (v2.11), Microsoft CryptoAPI, PC/SC (v1.0), PKCS #12, PKCS #15, PKCS #8
- Supports multiple smart card Operating Systems: including G&D STARCOS, Java Card v2.1.1 / Open Platform 2.0.1 compliant Java smart cards and Java Card v2.2+ / GlobalPlatform 2.1.1 compliant Java smart cards
- On-board cryptographic key generation up to 2,048 bit
- Secure storage of X.509 digital certificates
- Multiple key and certificate storage
- Multiple token form factor support: smart cards, USB tokens and SIM cards from different vendors
- Multiple smart card reader support from different vendors, including serial, USB and PCMCIA readers
- Support for Class 2 / Class 3 secure pinpad readers
- Support for numerous PKI systems and Certificate Authorities (CAs)
- Plug-and-play connectivity for PKI applications supporting either PKCS#11 or CSP
- Fully transparent Windows logon (2000, XP and 2003)
- Seamless integration in Windows: secure user authentication, e-mail signing and encryption, VPN, network access, logon and Terminal Services (Windows 2003)
- Support for multiple languages
- Support for Entrust dual-headed interface
- Flexible and multi-purpose token management tools

1.3 SafeSign Identity Client Benefits

- Cost-effective: cost of password administration and management decreased
- Go local with SafeSign Identity Client multi-language: support for over 15 languages
- Supports the token that suits your needs: from STARCOS SPK to OP compliant Java Cards from multiple vendors
- Even smart without a card: SafeSign Identity Client supports both smart card and USB format tokens
- SafeSign Identity Client's speed saves you time: quick and easy to install and work with
- Multi-platform security: support for all major Operating Systems (same experience across all platforms)
- SafeSign Identity Client works out of the box: once installed, SafeSign Identity Client will simply function and easily integrate with your PKI systems and applications
- Small footprint: rapid deployment
- Automatic lockup when maximum number of PIN / PUK retries is exceeded
- Tested and verified for interoperability with a wide range of security products in the industry
- Intuitive and flexible digital identity management tools for both end-user and administrator
- In-depth documentation and user guides
- Fast and accurate support through in-house test centre and Quality Assurance procedures

1.4 Specifications

For a complete overview of current SafeSign Identity Client specifications and supported applications, refer to the latest Product Description.

2 SafeSign Identity Client Installation

The installation procedure for SafeSign Identity Client as described in this document is for Windows Operating Systems only.

2.1 Prerequisites

2.1.1 Previous versions¹

When you have installed a previous version of SafeSign Identity Client, there are a number of possibilities:

When a SafeSign Identity Client version 1.0.9.x or a SafeSign Identity Client version up to 2.0.9 (< 2.0.9) is installed, the SafeSign Identity Client installer will first ask you to de-install the previous version, after which it will proceed to install the new version². If you do not remove the previous installation at this point, the installation program will not continue to install the new version, but will abort the installation process.

When a SafeSign Identity Client version 2.0.9 or higher (up to 2.1.x) is installed (i.e. $\geq 2.0.9$ and $< 2.1.x$), it is not possible to upgrade the existing version, due to the renaming of certain components. You should first de-install the previous version (manually), before running the installation program for the new version.

When a SafeSign Identity Client version 2.1.x or a SafeSign Identity Client version 2.2.x is installed, it is possible to upgrade the existing installation. This means that you do not have to de-install the previous version, but you can use the installer of SafeSign Identity Client version 2.3 to upgrade the existing installation of SafeSign Identity Client. The installation program will inform you that an upgrade will take place.

2.1.2 Administrator rights

Note that in order to install SafeSign Identity Client, you will need to have local administrator rights on the (local) computer itself. This is because upon installing SafeSign Identity Client, access to the registry is required, which a user without local administrator rights is not granted access to. When SafeSign Identity Client is installed, any user can use it.

2.1.3 Smart Card / USB Token

Currently, SafeSign Identity Client supports the tokens defined in the latest product description. SafeSign Identity Client has been designed to support tokens from multiple vendors and SafeSign Identity Client will include support for other, ITSEC E4 compliant tokens when they become available and / or on customer request.

2.1.4 Smart card Reader

Before being able to use smart card readers and smart cards, you should have Microsoft Smart Card Base Components and its update, the Smart Card Driver Library installed, for all non-Windows 2000 / XP / 2003 versions.



Note

Note that Omnikey CardMan smart card reader driver files include and automatically install the Microsoft Smartcard Base Components for Windows 98 and ME.

If you have by accident, manually installed the Base Components under Windows 2000 or XP, the smart card subsystem will be damaged / disabled, and needs to be recovered.

¹ See also Appendix 1: Backwards Compatibility

² Note that this does not apply when installing SafeSign Identity Client version 2.3 silently, as user interaction is required to approve de-installation of the previous version. The result will be two versions of the Token Utility installed.

Before being able to install SafeSign Identity Client, you should have a PC / SC compatible smart card reader installed (unless you are using a USB token), with its appropriate drivers.



Note

In this manual, the phrase "a token in a smart card reader", may refer to a smart card in a smart card reader or a USB token in a USB port.

Currently SafeSign Identity Client supports the smart card readers defined in the latest product description.

PC / SC driver software is either included on the (master) CD-ROM and / or available from the web site of the smart card reader manufacturer.

2.1.5 Platform

SafeSign Identity Client works with the Windows Operating Systems defined in the latest product description:

Windows 2000, Windows XP Professional, Windows 2003 Server, Windows Vista.

Windows NT and Windows 98 / ME are not supported, in line with Microsoft's end-of-life policy.

2.2 Installation Procedure

SafeSign Identity Client installation is quick and straightforward. The installation program will lead you through all steps necessary to install SafeSign Identity Client. The installation program will also allow you to install SafeSign Identity Client in Firefox (and/or Netscape and Mozilla) and Entrust, when these are available on your system and selected as program features to be installed.

The installation procedure for SafeSign Identity Client is described in section [2.3](#).

The installation of SafeSign Identity Client in Firefox (Firefox Installer) is described in section [2.7](#).

The installation of SafeSign Identity Client in Entrust (Entrust Installer) is described in section [2.8](#).

2.3 SafeSign Identity Client Installation

Screenshots for the installation of SafeSign Identity Client were taken from the installation process on a Windows XP Professional system.

It is strongly recommended that you exit all Windows programs before running the Setup program.

1

To start the installation of SafeSign Identity Client, locate the SafeSign Identity Client setup file, which will start (to initialise) the SafeSign Identity Client Windows Installer.

➔ Double-click this file

2

SafeSign Identity Client Setup will first ask you which language you want to use for the installation of SafeSign Identity Client:

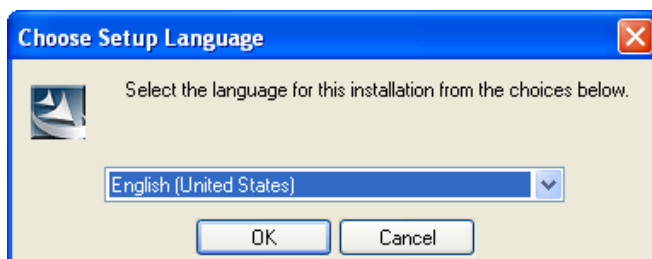


Figure 1: InstallShield Wizard: Choose Setup Language

➔ Select a language from the drop-down list for the installation and click **OK**

The language of the Installation program (and of the *Choose Setup Language* dialog) is by default the language set in your Windows locale settings (**Start > Settings > Control Panel > Regional Options**).

Note that the installation language is static: once you have chosen a particular language, you will not be able to change the SafeSign Identity Client menu items in **Start > Programs > SafeSign Identity Client Standard**.

For more information on the multi-language feature of SafeSign Identity Client, refer to the SafeSign Identity Client Token Management Utility Guide / Token Administration Utility Guide.



Languages

The SafeSign Identity Client installation program and SafeSign Identity Client utilities are available in the languages displayed in the *Choose Setup Language* window:

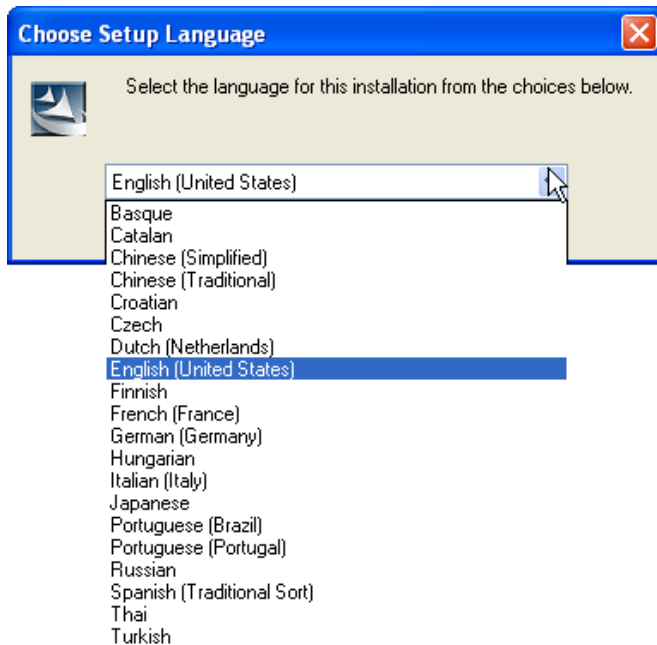


Figure 2: InstallShield Wizard: Setup Languages

When you have selected a language to install SafeSign Identity Client in, SafeSign Identity Client Setup will prepare the InstallShield Wizard:



Figure 3: InstallShield Wizard: Preparing the InstallShield Wizard

➔ Wait until the InstallShield Wizard continues

3

When the SafeSign Identity Client InstallShield Wizard is started, the *Welcome to the InstallShield Wizard for SafeSign* window is displayed, welcoming you to the InstallShield Wizard for SafeSign Identity Client:

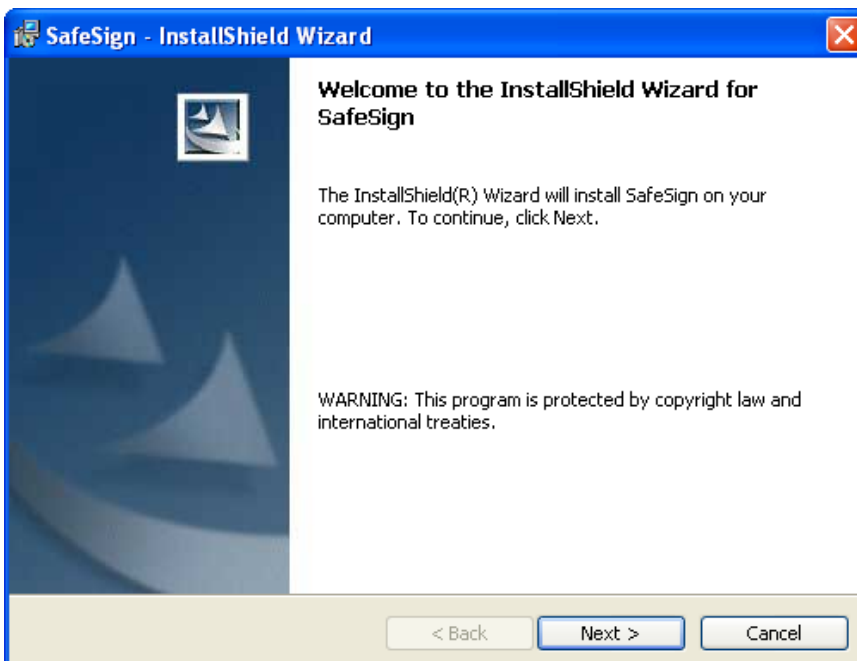


Figure 4: InstallShield Wizard: Welcome to the InstallShield Wizard for SafeSign

➔ Click **Next** to continue



Exit Setup

Please note that at every stage of the installation process, you can halt / stop the installation.

In order to do so, click Cancel. A dialog box will be displayed, asking to confirm cancelling the setup. This dialog box also enables you to resume Setup or to exit definitely.



Figure 5: InstallShield Wizard: Are you sure you want to cancel SafeSign installation?

Click **Yes** to cancel and quit the setup

Click **No** to continue the Setup program

Upon clicking **Yes**, the InstallShield Wizard will finish, without installing SafeSign Identity Client and modifying your system:

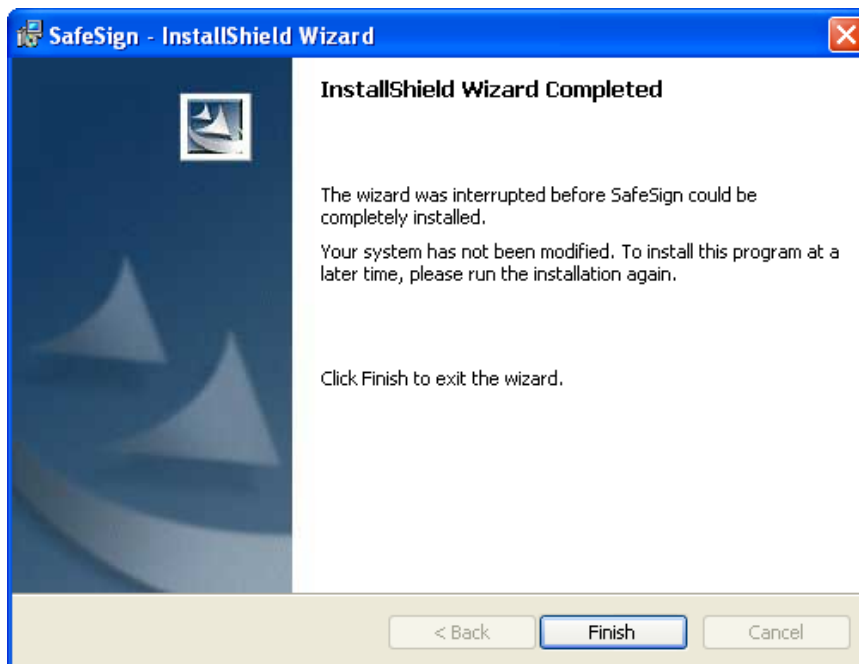


Figure 6: InstallShield Wizard: InstallShield Wizard Completed (interrupted)

4

Upon clicking **Next** in the *Welcome to the InstallShield Wizard for SafeSign* window (Figure 4), the SafeSign Identity Client InstallShield Wizard *License Agreement* window is displayed, allowing you to read the License Agreement before accepting it:

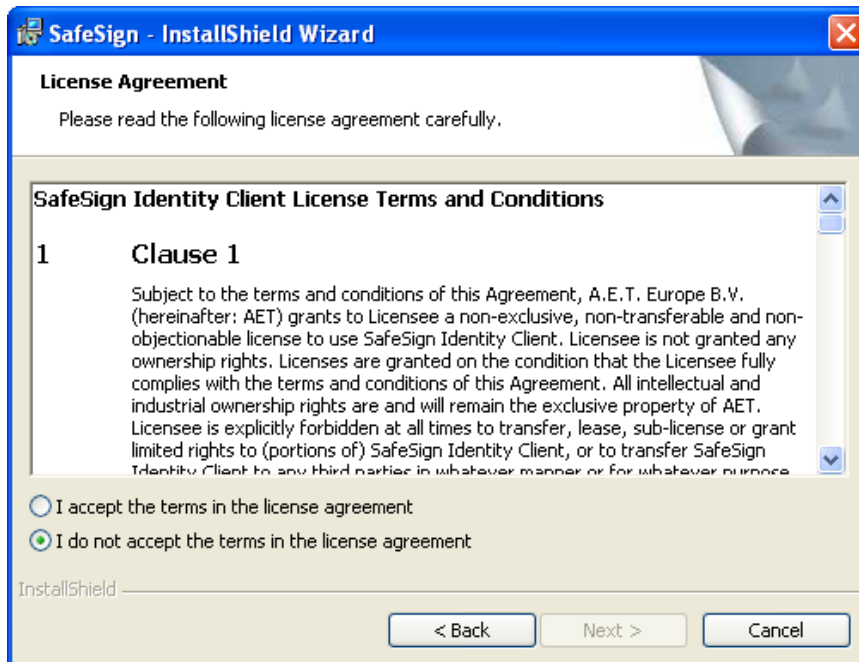


Figure 7: InstallShield Wizard: License Agreement

Read the SafeSign Identity Client License Agreement carefully. Note that in order to install SafeSign Identity Client, you will need to accept the terms of this agreement.

Therefore, only upon selecting “*I accept the terms in the license agreement!*”, will the button **Next** become available:



Figure 8: InstallShield Wizard: License Agreement (I accept)

➔ After accepting the terms of the License Agreement, click **Next** to continue Setup



Back

At every step of the installation, you may return to the previous window by clicking **Back**

5

When you have accepted the SafeSign Identity Client License Agreement and clicked **Next**, the SafeSign Identity Client InstallShield Wizard *Destination Folder* window is displayed. This window will display the default destination folder in which SafeSign Identity Client will be installed:

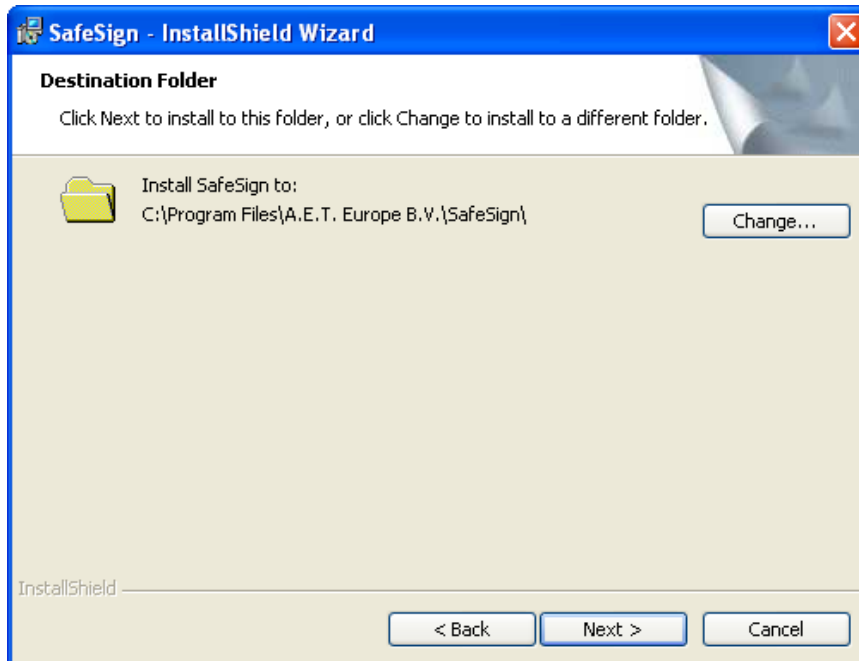


Figure 9: InstallShield Wizard: Destination Folder

➔ Click **Next** to install SafeSign Identity Client in the destination folder shown.

The default destination folder for the installation of SafeSign Identity Client in this example setup process is:
C:\Program Files\A.E.T. Europe B.V.\SafeSign



Browse...

Clicking **Browse** will allow you to install SafeSign Identity Client in another destination folder.

Upon clicking **Browse**, the *Change Current Destination Folder* window is displayed, enabling you to select another folder:

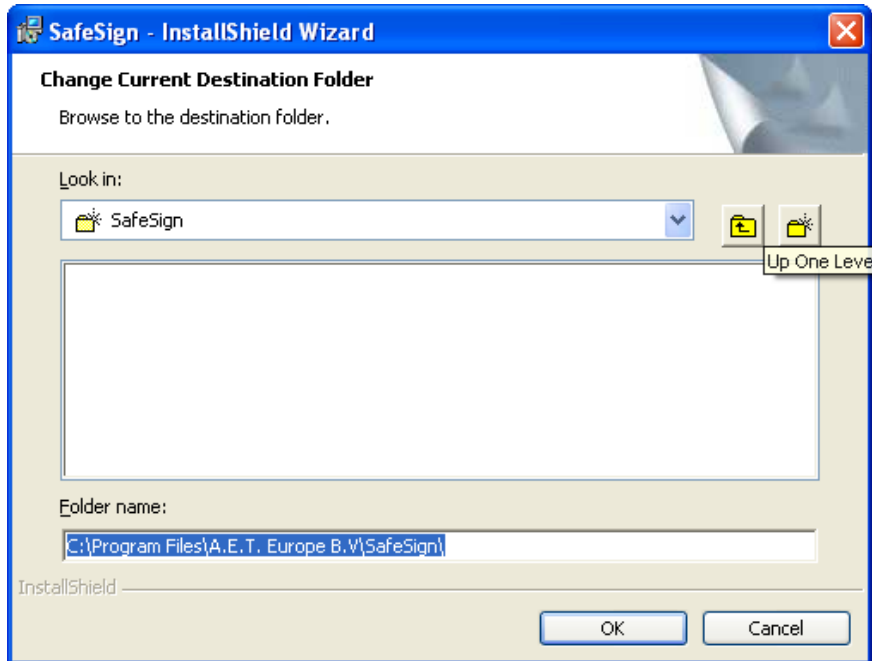


Figure 10: InstallShield Wizard: Change Current Destination Folder

Browse to the destination folder you want to install SafeSign Identity Client in.

Click **OK** to accept the destination folder name you entered. The Destination folder will now be the folder name you selected.

Click **Cancel** to return to the SafeSign Identity Client InstallShield Wizard *Destination Folder* window. The destination folder will remain the default SafeSign Identity Client destination folder.

6 The SafeSign Identity Client InstallShield Wizard *Custom Setup* window is displayed. This will enable you to select the features you wish to install:

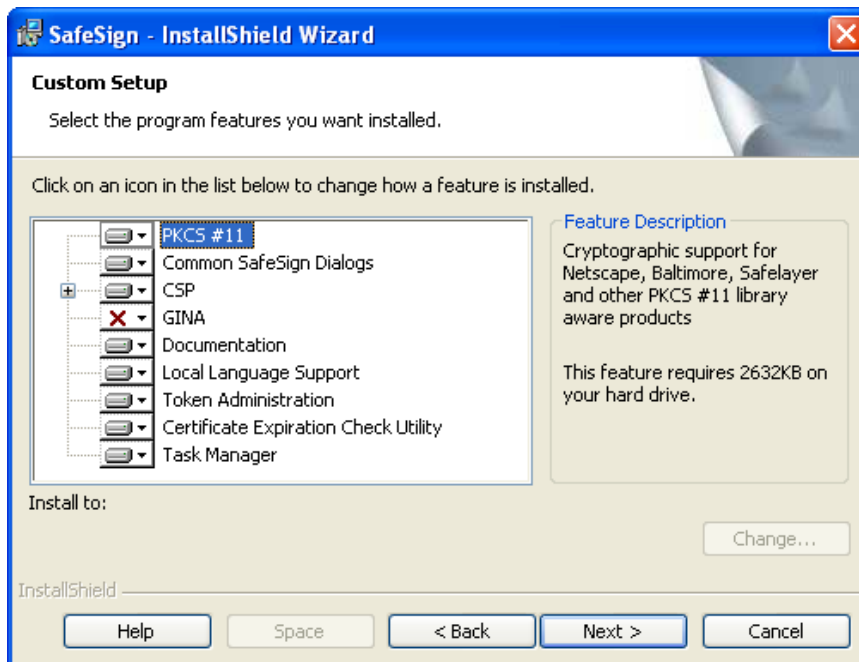


Figure 11: InstallShield Wizard: Custom Setup

These are the components Setup may install:

PKCS #11	<i>Cryptographic support for Netscape, Baltimore, Safelayer and other PKCS #11 library aware products</i> Required feature.
Common SafeSign Dialogs	<i>Common dialogs, required by various SafeSign Identity Client components</i> Required feature.
CSP	<i>Cryptographic support for Microsoft and other CryptoAPI aware products</i> Required feature Note that the CSP features includes the CryptoAPI Store Provider.
GINA	<i>Support for logon with protected authentication path devices</i> Install this feature if you want to use a protected authentication path device, such as a secure pinpad reader, for Windows Logon ^{1 2} .
Documentation	<i>This will install the SafeSign Identity Client documentation</i> Install this feature if you want to install the SafeSign Identity Client documentation (License Agreement).
Local Language Support	<i>Support user interface localization of the utility programs</i> Install this feature if you want to have the SafeSign Identity Client utilities to support multiple languages.
Token Management / Token Administration³	<i>Management Tools</i> Install this feature if you want to install the Token Management Utility / Token Administration Utility to be able to perform such management operations as token initialisation.

¹ By default, the SafeSign Identity Client GINA is not installed.

² From SafeSign Identity Client release 2.3 onwards, the GINA offers some additional functionality, for users without a protected authentication path device. It provides the ability to log on with the StarKey220 HID token and allows setting a warning signal when the user tries to lock the PC or log off without having removed the token.

³ Depending on the installation package available to you, either the Token Management Utility or the Token Administration Utility will be installed.

Certificate Expiration Check Utility	Install this feature if you want to have your certificates checked for expiration.
Task Manager	<i>Manage tasks that are performed upon token insertion or removal</i> Install this feature if you want to have the ability (available from the Token Utility) to perform certain tasks when inserting or removing a token.

Table 1: Components for Custom installation



Select Feature

For non-required features, you can select if and where they are installed:

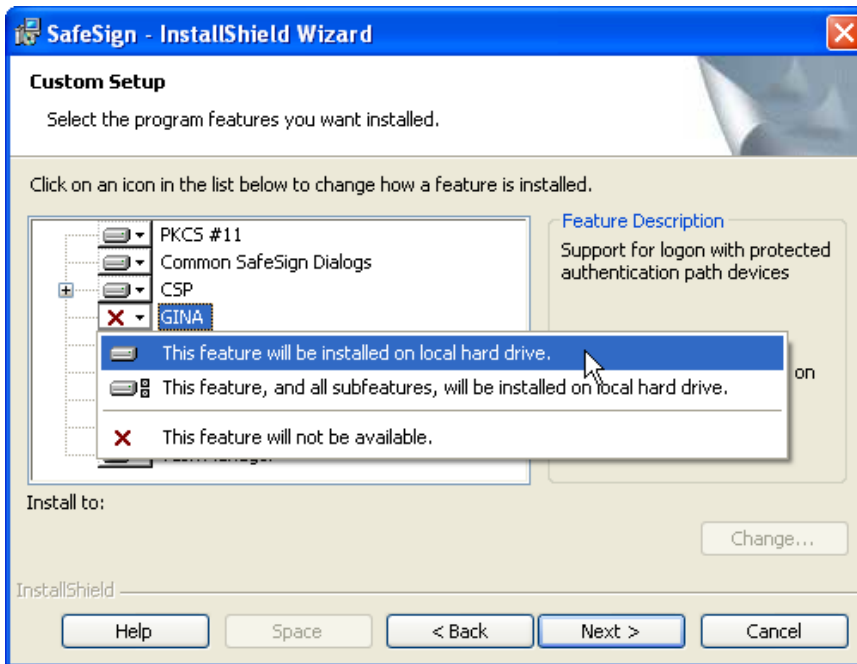


Figure 12: InstallShield Wizard: Custom Setup (GINA)

Select "This feature will be installed on local hard drive" to install this feature on the local disk.

Select "This feature will not be available" if you do not wish this feature to be installed.

➔ Click **Next** to install SafeSign Identity Client

7

When you have selected the features you wish to install, the SafeSign Identity Client InstallShield Wizard *Ready to Install the Program* window is displayed. The wizard is ready to begin installation:

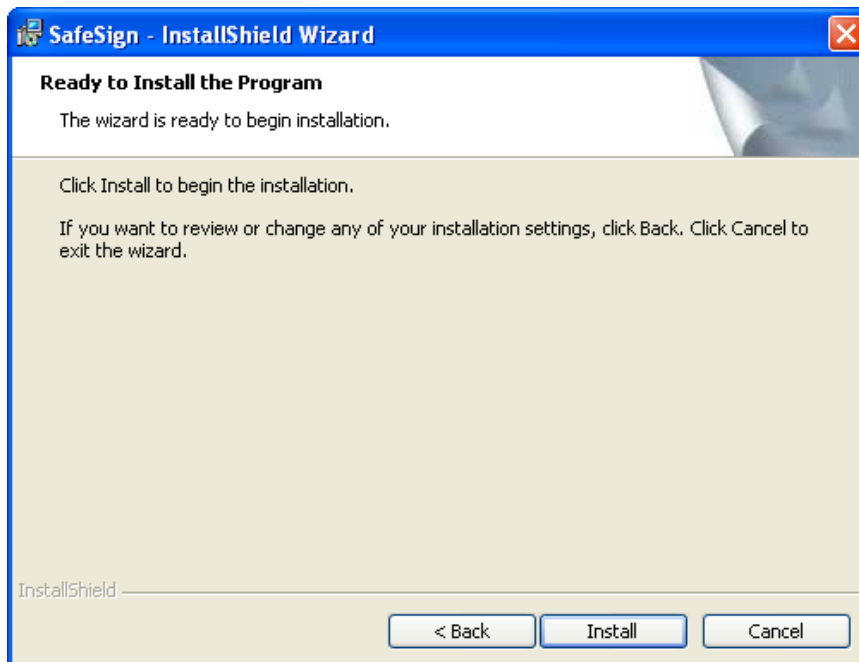


Figure 13: InstallShield Wizard: Ready to install the program

➔ Click **Install** to install SafeSign Identity Client

8

Upon clicking **Next** in the SafeSign Identity Client InstallShield Wizard *Ready to Install the Program* window, the InstallShield Wizard installs SafeSign Identity Client, with the program features you selected:

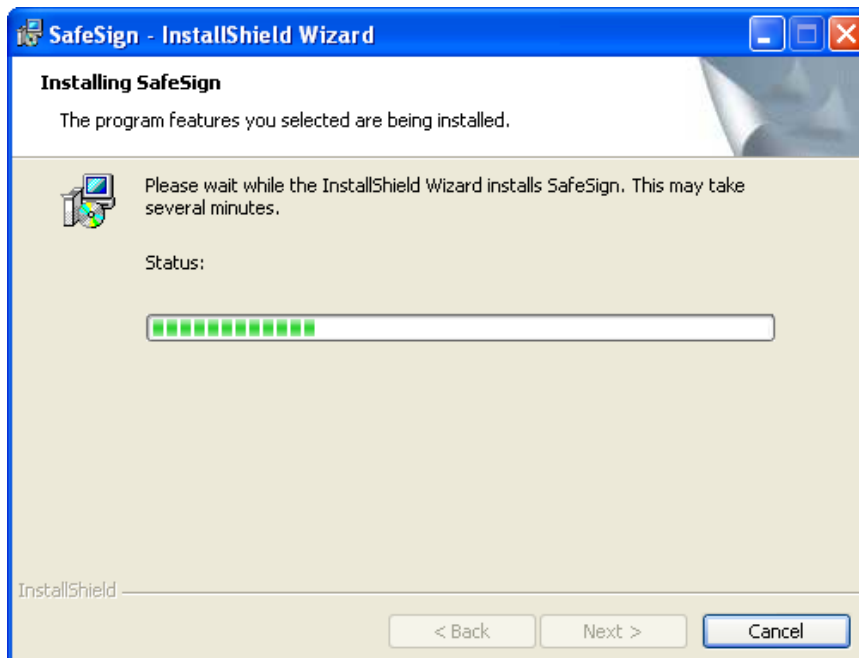


Figure 14: InstallShield Wizard: Installing SafeSign

➔ Wait until the program is installed

If you wish to cancel the installation at this stage, click [Cancel](#). Please note that when interrupting or cancelling the installation at this point, SafeSign Identity Client will not be installed and your system will not be modified.

9

When SafeSign Identity Client is successfully installed (after optionally installing SafeSign Identity Client in Firefox and/or Entrust, if available), the SafeSign Identity Client InstallShield Wizard *InstallShield Wizard Complete* window is displayed, informing you that SafeSign Identity Client was successfully installed:

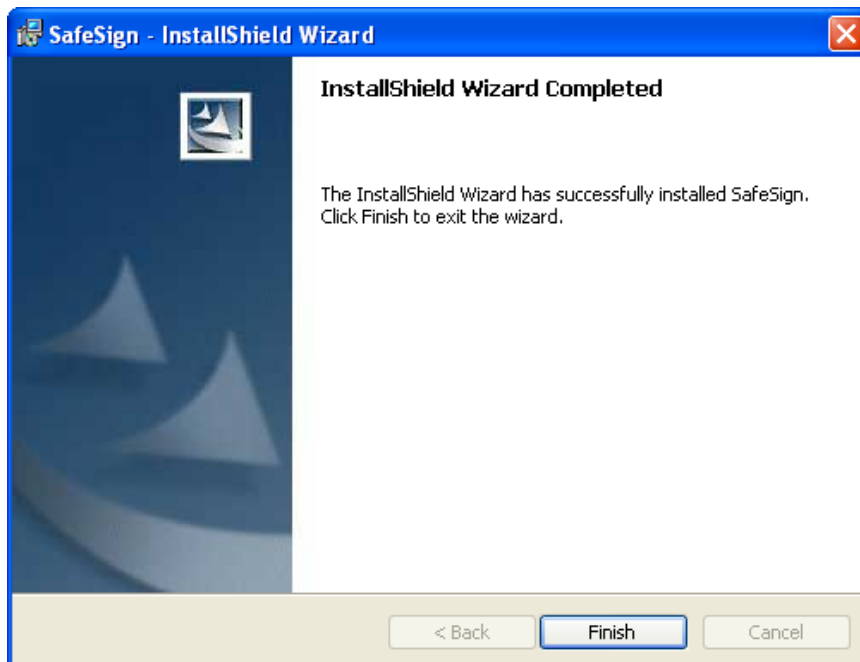


Figure 15: InstallShield Wizard: InstallShield Wizard Completed

→ Click **Finish** to complete setup

10

Restart your computer to complete the installation of SafeSign Identity Client.

All SafeSign Identity Client applications (installed) will be available from **Start > Programs > SafeSign Standard**:

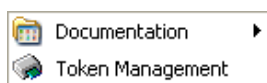


Figure 16: SafeSign Identity Client applications: Token Management



Note

*If you have installed the SafeSign Identity Client Standard for Windows administrator package, the Token Administration Utility will be available (**Token Administration**), instead of the Token Management Utility (**Token Management**):*

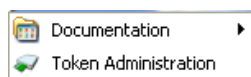


Figure 17: SafeSign Identity Client applications: Token Administration

2.4 Program Maintenance

From SafeSign Identity Client Standard version 2.0.9 onwards, it is possible to modify, repair and remove the existing installation of SafeSign Identity Client, when the SafeSign Identity Client setup file is used.

2.4.1 Modify Installation

With the SafeSign Identity Client Installer it is possible to modify an existing installation. You may for example, choose to install the SafeSign Identity Client GINA if it is not installed, or remove it when it is installed. The example used in this paragraph for modifying an existing installation is the installation of the GINA when it was not installed.

1

In order to modify an existing installation, double-click the SafeSign Identity Client setup file, which you used to install SafeSign Identity Client with. Choose a setup language and wait until the InstallShield Wizard is ready, upon which the *Welcome to the InstallShield Wizard for SafeSign* window will be displayed:

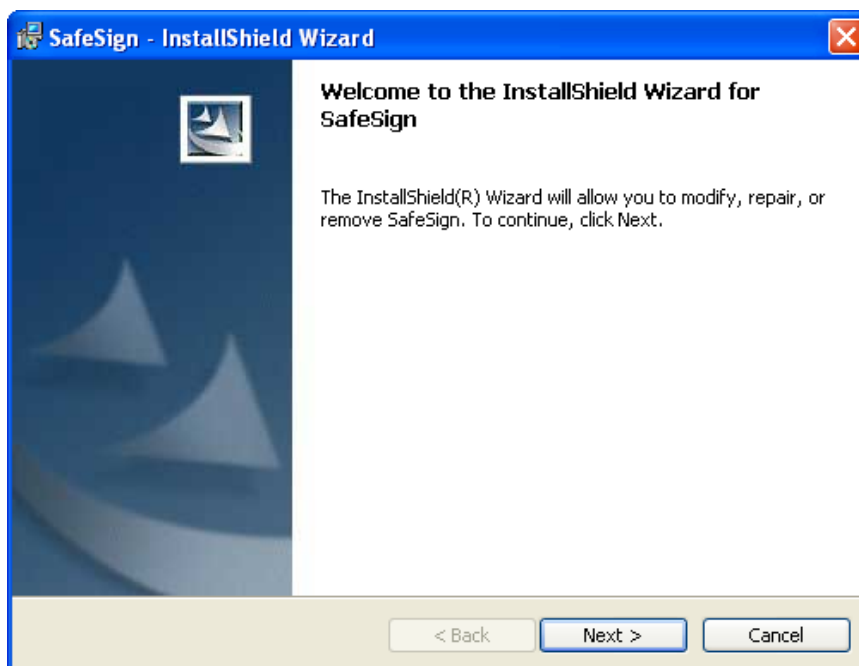


Figure 18: InstallShield Wizard: Welcome to the InstallShield Wizard for SafeSign

➔ Click **Next** to continue

2

Upon clicking **Next**, the *Program Maintenance* window will appear, allowing you to modify, repair or remove the program:

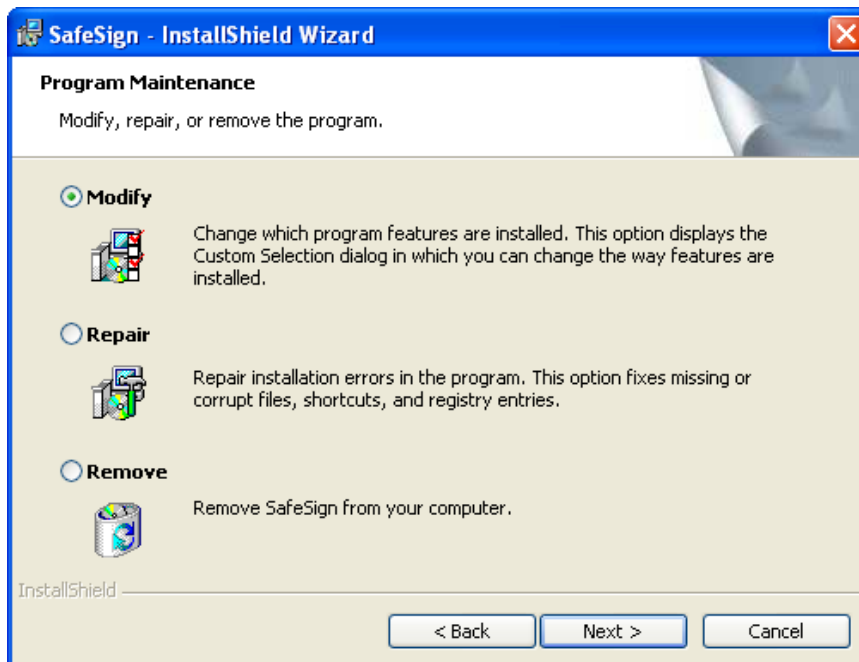


Figure 19: InstallShield Wizard: Program Maintenance (Modify)

➔ Select **Modify** (as above) to change the program features installed and click **Next**

3

Upon clicking **Next**, the *Custom Setup* window will appear, in which you can change the (way) features are installed:

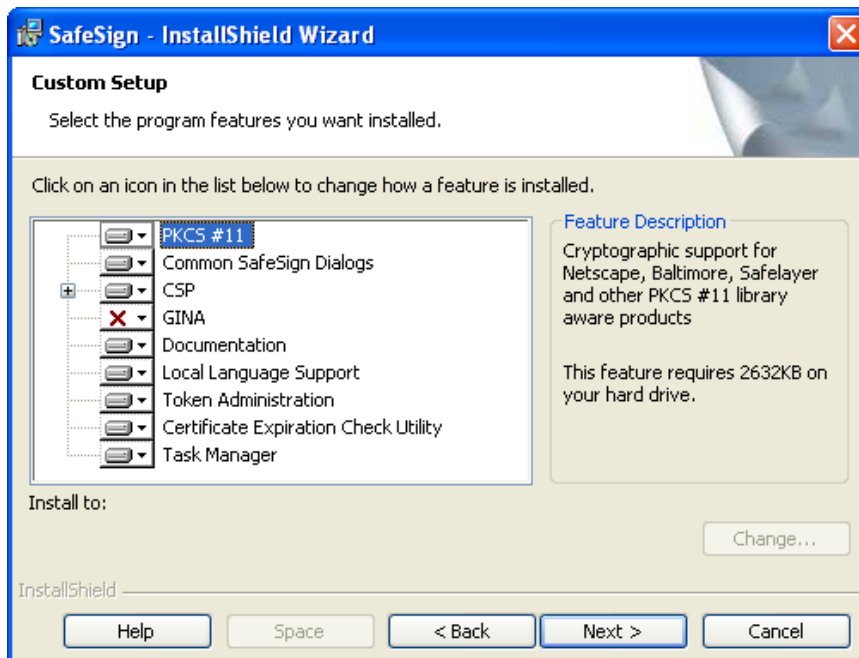


Figure 20: InstallShield Wizard: Custom Setup

As indicated above, the SafeSign Identity Client GINA has not been installed.

➔ Select the GINA for installation as indicated below and click **Next**:

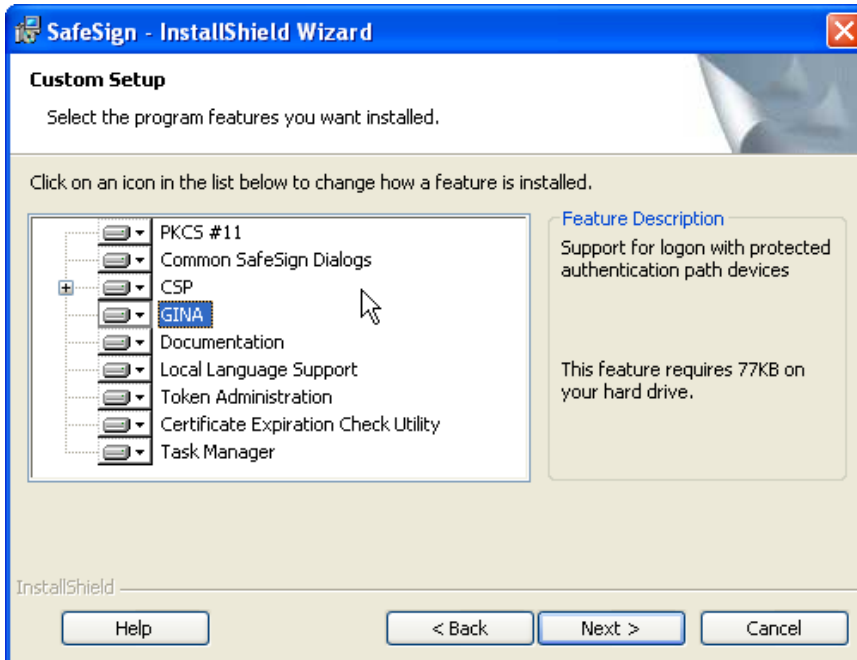


Figure 21: InstallShield Wizard: Custom Setup (GINA selected)

4

Upon clicking **Next**, the *Ready to Modify the Program* window is displayed, informing you that the InstallShield Wizard is ready to begin installation with the features you selected (Figure 21):

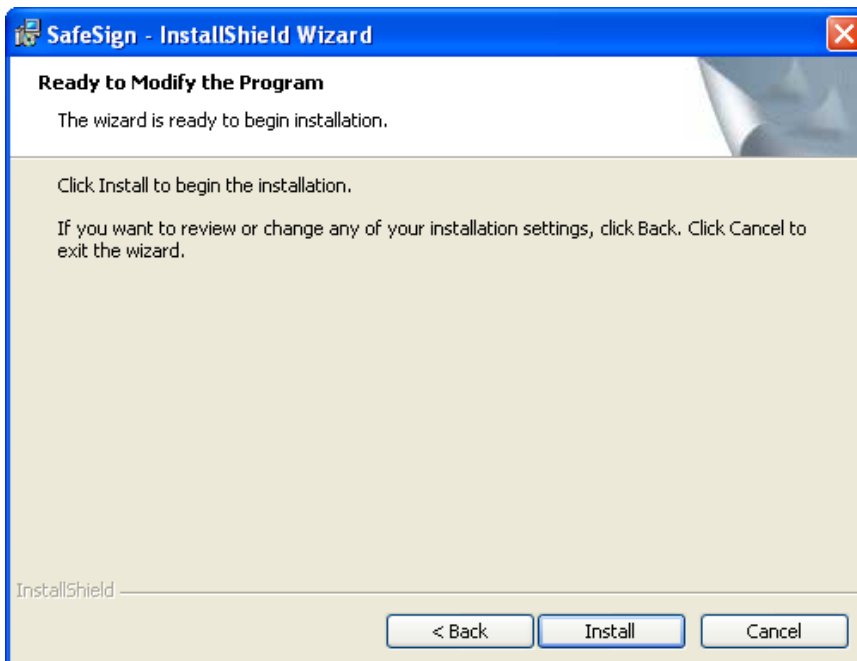


Figure 22: InstallShield Wizard: Ready to Modify the Program

➔ Click **Install**

5

Upon clicking **Install**, the program features you selected will be installed:

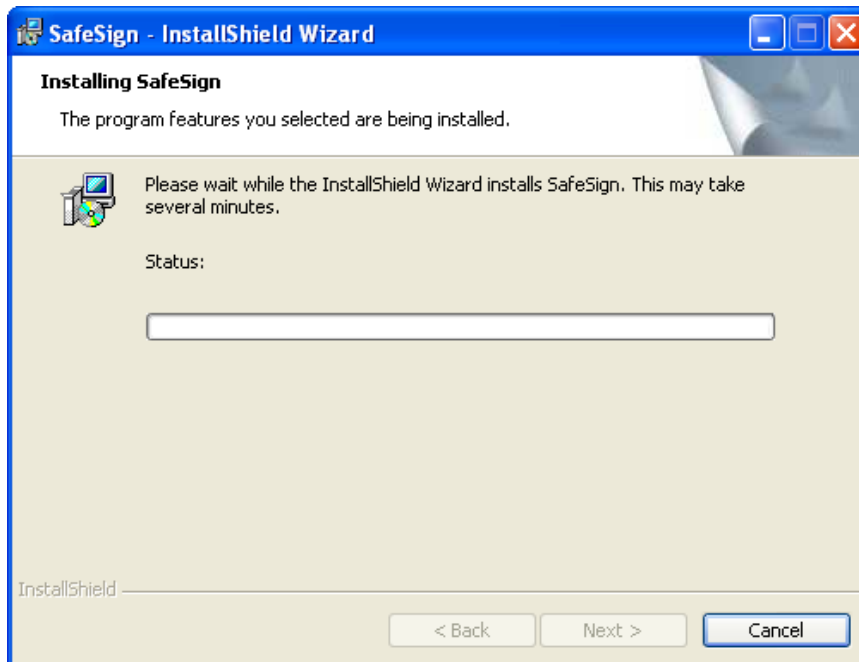


Figure 23: InstallShield Wizard: Installing SafeSign

➔ Wait until the InstallShield Wizard is ready

6

When the InstallShield Wizard is ready modifying / installing SafeSign Identity Client, you will be notified:

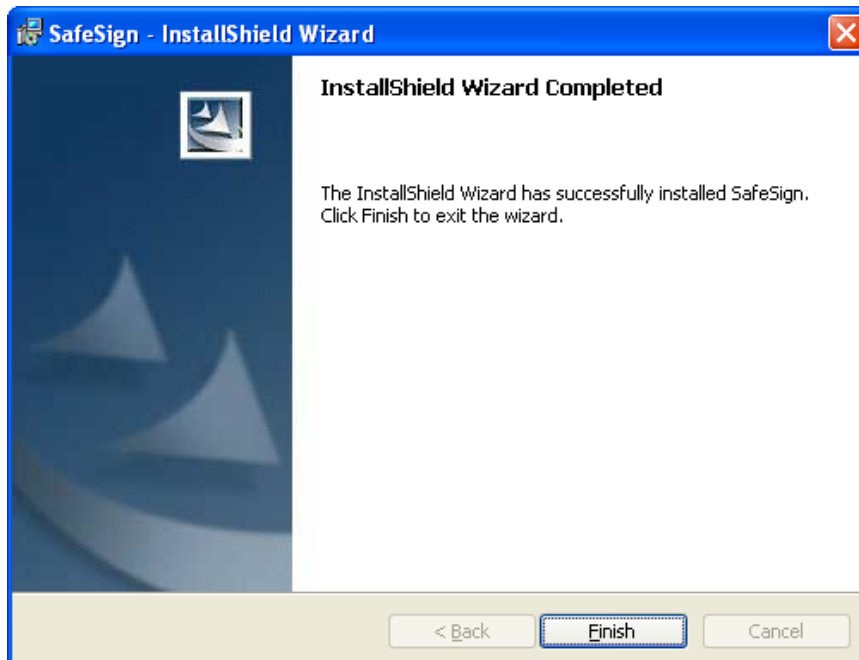


Figure 24: InstallShield Wizard: InstallShield Wizard Completed

➔ Click **Finish** to finish and exit the wizard

2.4.2 Repair Installation

With the SafeSign Identity Client Installer it is possible to repair an existing installation. This option fixes missing or corrupt files, shortcuts and registry entries.

1

In order to repair an existing installation, double-click the SafeSign Identity Client setup file, which you used to install SafeSign Identity Client with. Choose a setup language and wait until the InstallShield Wizard is ready, upon which the *Welcome to the InstallShield Wizard for SafeSign Identity Client* window will be displayed:

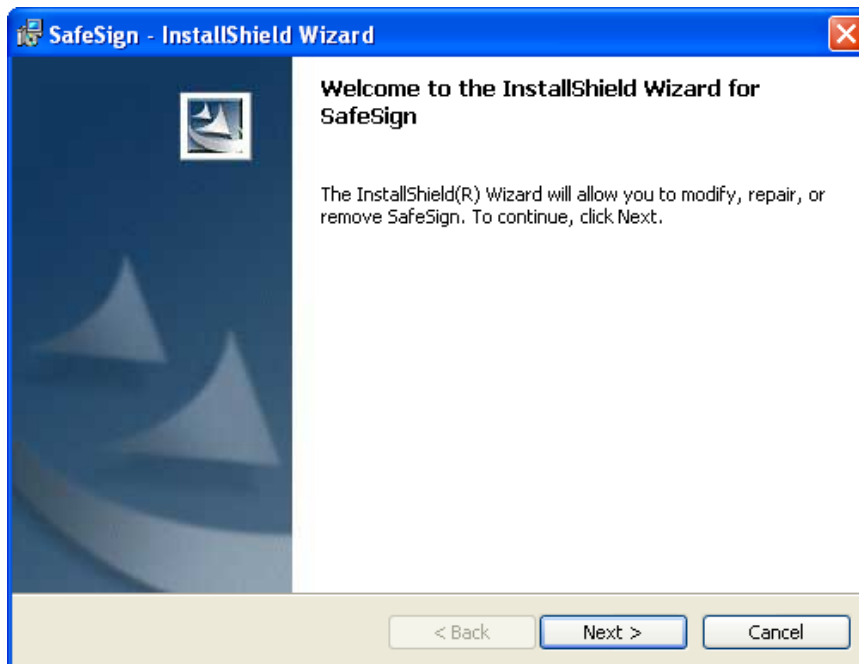


Figure 25: InstallShield Wizard: Welcome to the InstallShield Wizard for SafeSign

➔ Click **Next** to continue

2

Upon clicking **Next**, the *Program Maintenance* window will appear, allowing you to modify, repair or remove the program:

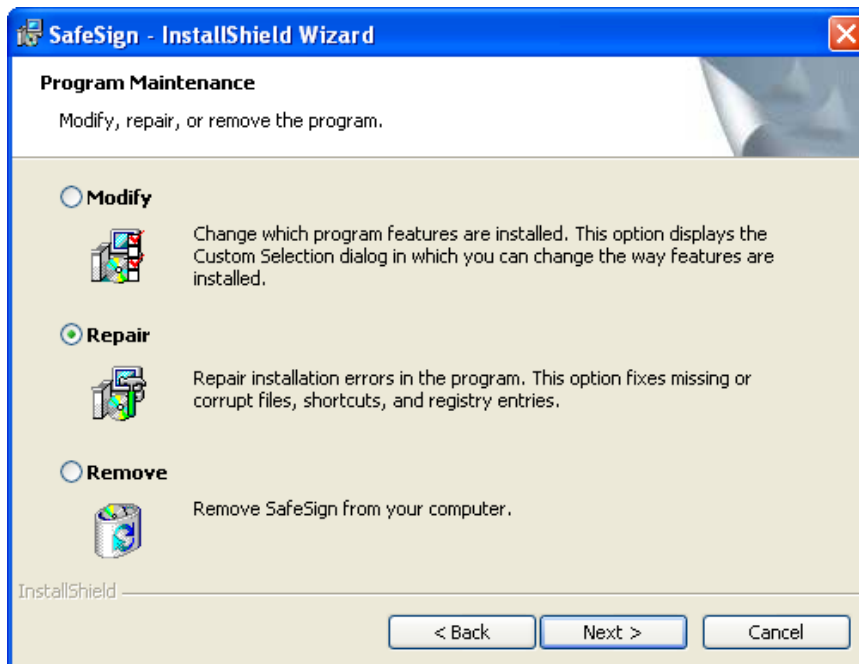


Figure 26: InstallShield Wizard: Program Maintenance (Repair)

➔ Select **Repair** (as above) to repair errors in the program and click **Next**

3

Upon clicking **Next**, the *Ready to Repair the Program* window is displayed, informing you that the InstallShield Wizard is ready to begin installation:

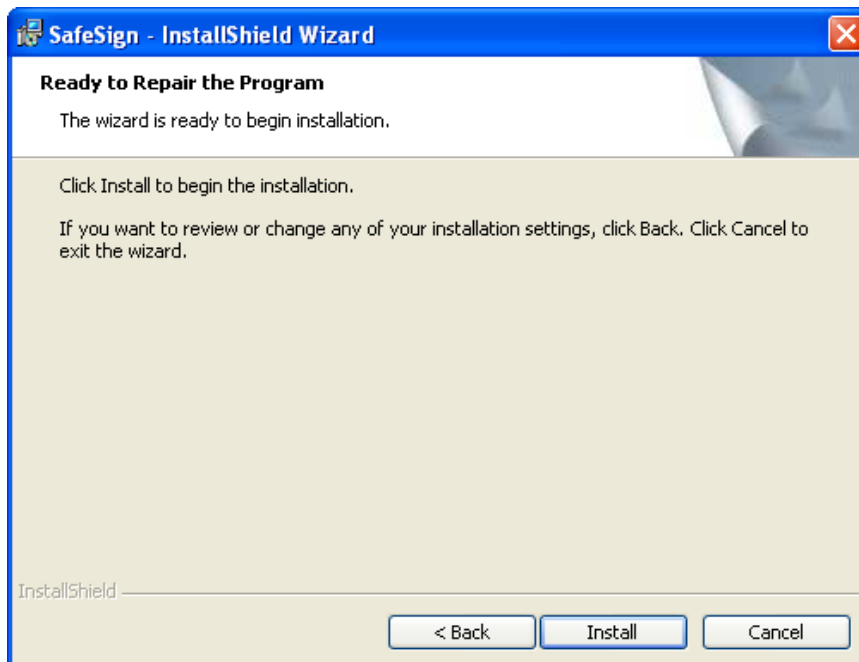


Figure 27: InstallShield Wizard: Ready to Repair the Program

➔ Click **Install**

4 Upon clicking **Install**, SafeSign Identity Client will be re-installed:

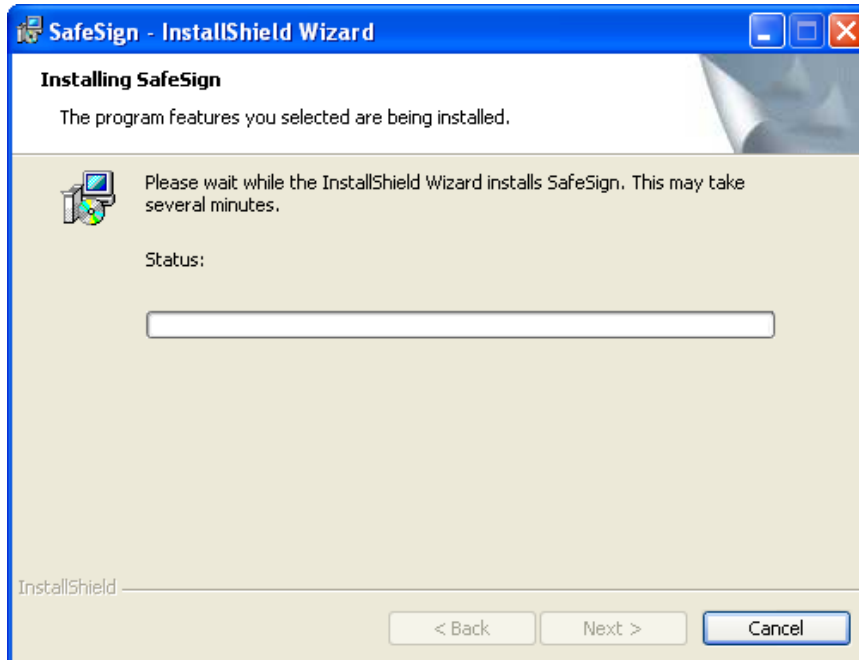


Figure 28: InstallShield Wizard: Installing SafeSign

➔ Wait until the InstallShield Wizard is ready

5 When the InstallShield Wizard is ready repairing / installing SafeSign Identity Client, you will be notified:

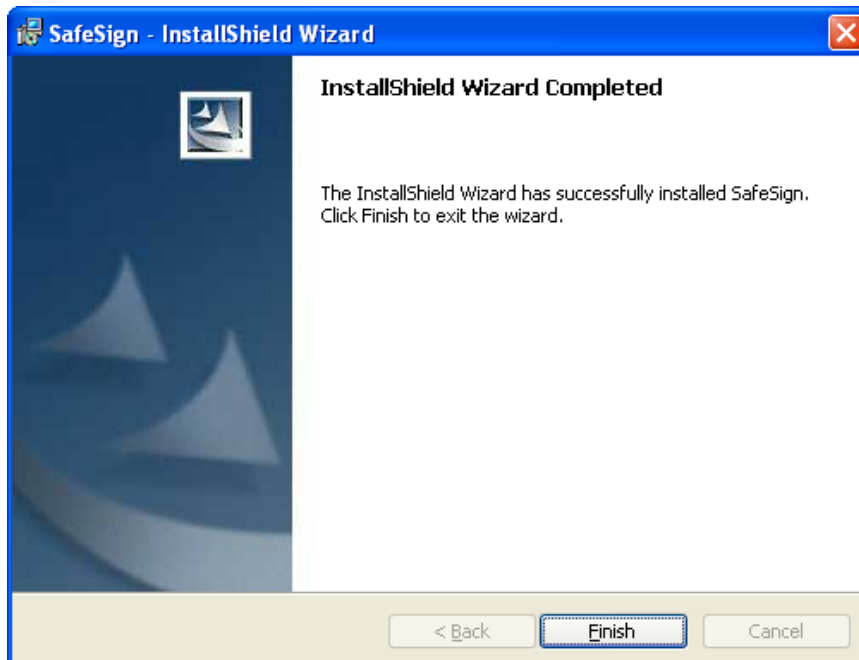


Figure 29: InstallShield Wizard: InstallShield Wizard Completed

➔ Click **Finish** to finish and exit the wizard

2.4.3 Remove Installation

With the SafeSign Identity Client Installer it is possible to remove an existing installation.¹ You can also remove SafeSign Identity Client through the Control Panel, as described in paragraph [2.5](#).

1

In order to remove an existing installation, double-click the SafeSign Identity Client setup file, which you used to install SafeSign Identity Client with. Choose a setup language and wait until the InstallShield Wizard is ready, upon which the *Welcome to the InstallShield Wizard for SafeSign Identity Client* window will be displayed:

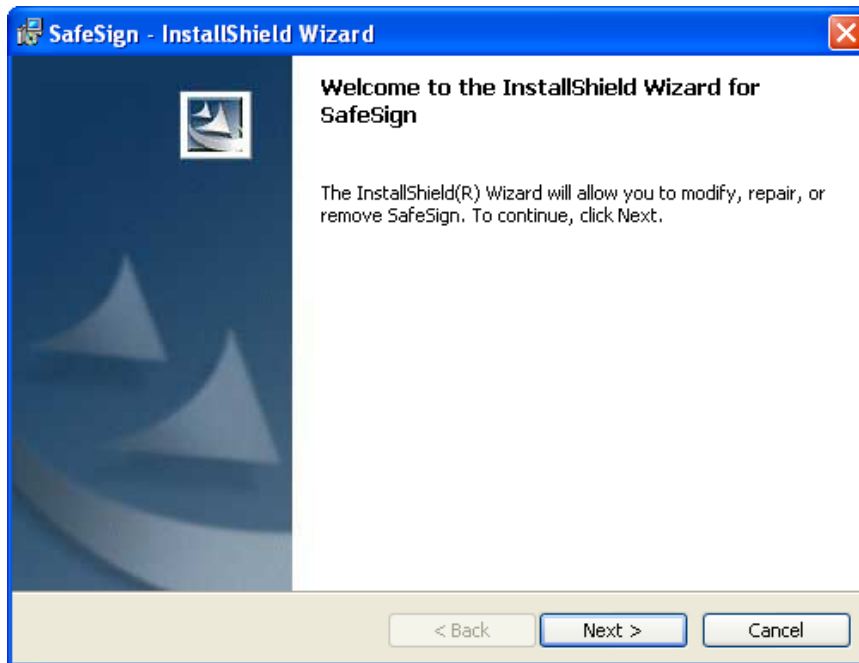


Figure 30: InstallShield Wizard: Welcome to the InstallShield Wizard for SafeSign

➔ Click **Next** to continue

¹ Note that you should use the same setup file (i.e. the same version of the software) you used for installing SafeSign Identity Client. If you have installed SafeSign Identity Client Standard version 2.3.0, you should use the same SafeSign Identity Client Standard 2.3.0 setup file to remove it.

2

Upon clicking **Next**, the *Program Maintenance* window will appear, allowing you to modify, repair or remove the program:

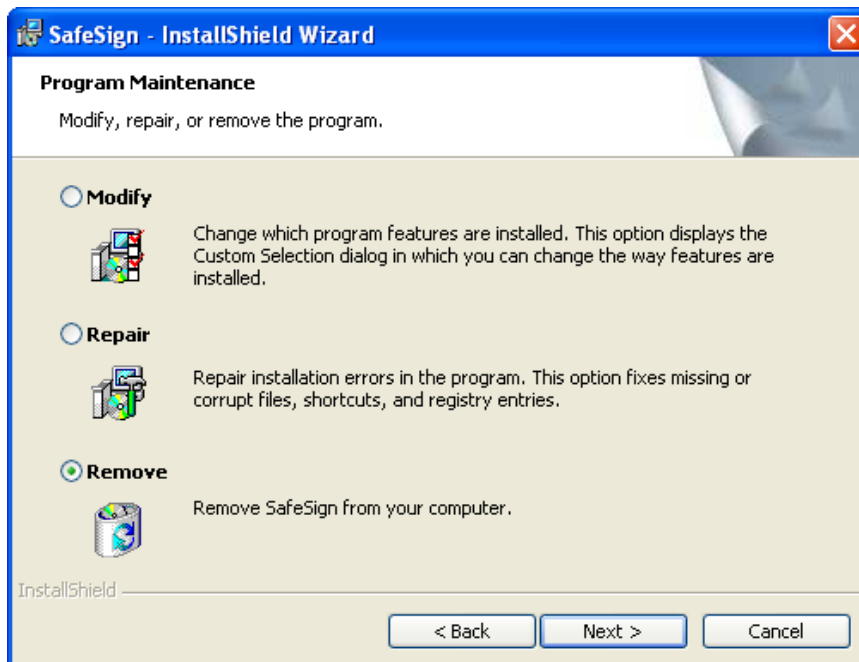


Figure 31: InstallShield Wizard: Program Maintenance (Remove)

➔ Select **Remove** (as above) to remove SafeSign Identity Client from your computer and click **Next**

3

Upon clicking **Next**, the *Remove the Program* window is displayed, informing you that you have chosen to remove the program from your computer and that it will no longer be available for use when it is removed:

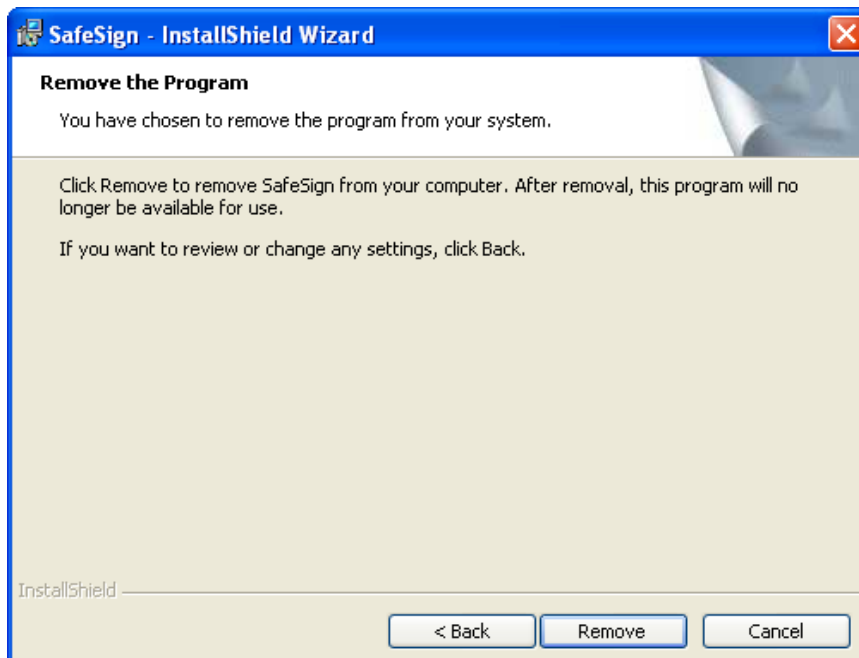


Figure 32: InstallShield Wizard: Remove the Program

➔ Click **Remove**

4 Upon clicking **Remove**, the program features you selected will be uninstalled:

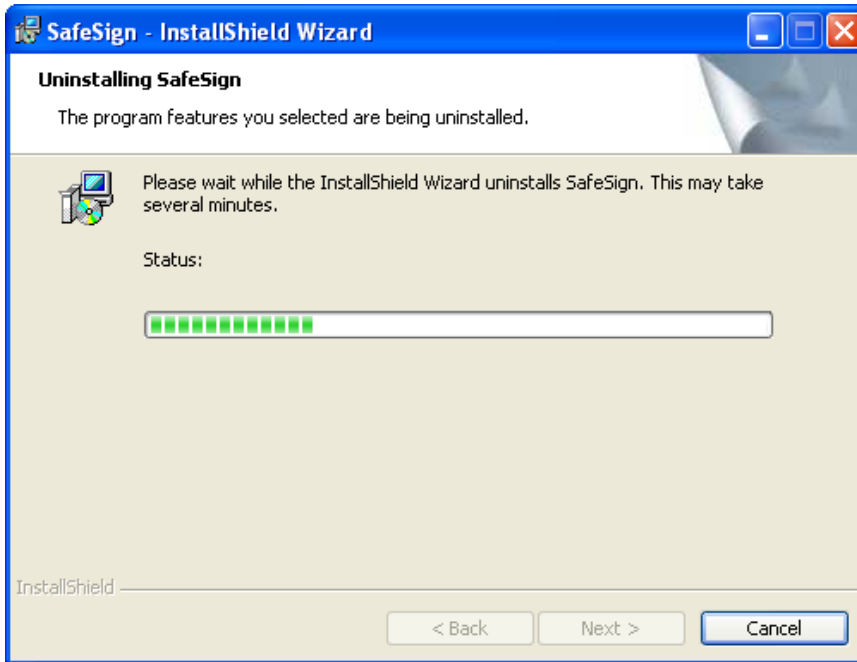


Figure 33: InstallShield Wizard: Uninstalling SafeSign

➔ Wait until the InstallShield Wizard is ready

5 When the InstallShield Wizard is ready uninstalling SafeSign Identity Client, you will be notified:

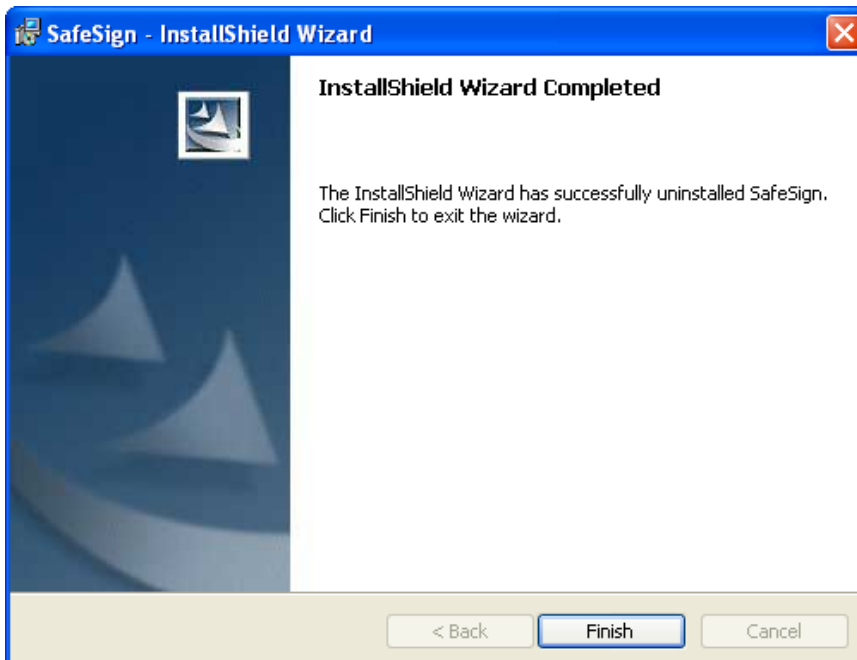


Figure 34: InstallShield Wizard: InstallShield Wizard Completed (uninstalled)

➔ Click **Finish** to finish and exit the wizard

2.5 De-install SafeSign Identity Client

SafeSign Identity Client can be removed through the **Add or Remove Programs** option in the Control Panel:

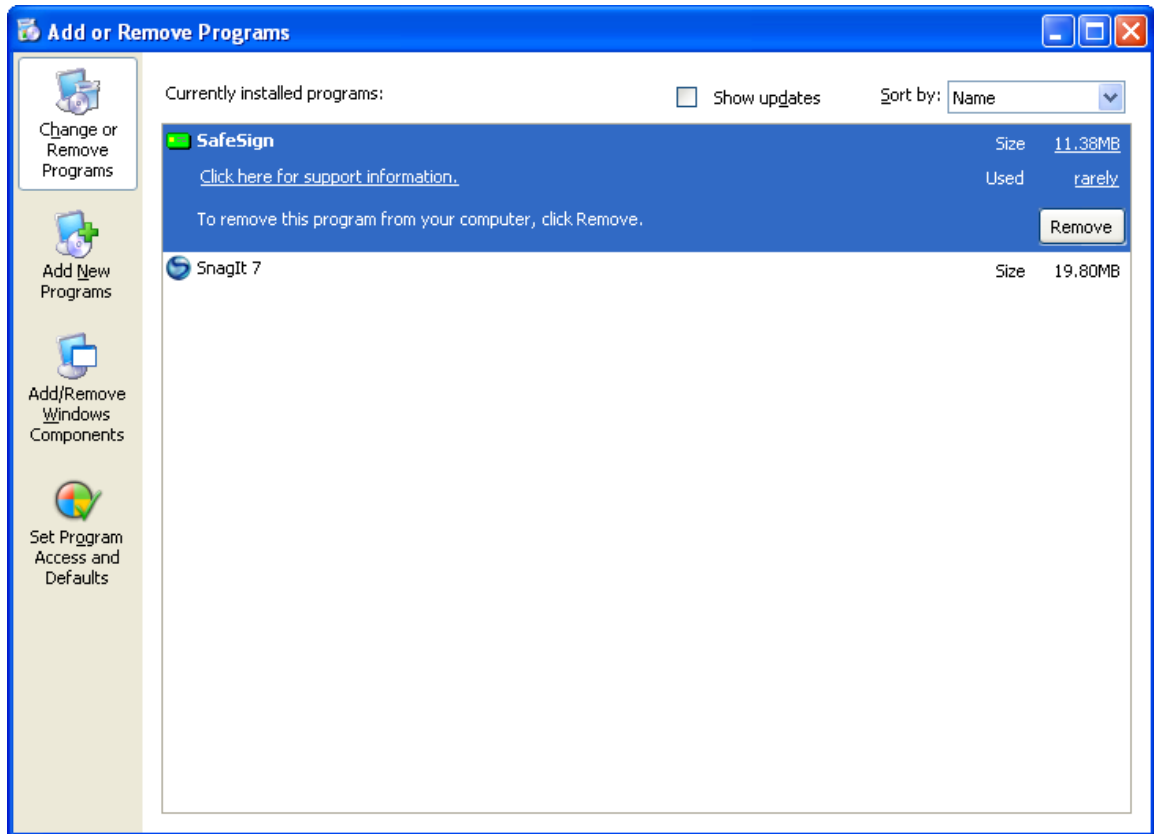


Figure 35: Add or Remove Programs: SafeSign

➔ Select SafeSign Identity Client (as above) and click **Remove**



Note

Note that it depends on your Operating System how the Add or Remove Programs window may look. The example above is taken from a Windows XP Professional machine.

Upon clicking **Remove**, you will be asked to confirm that you wish to remove SafeSign Identity Client:

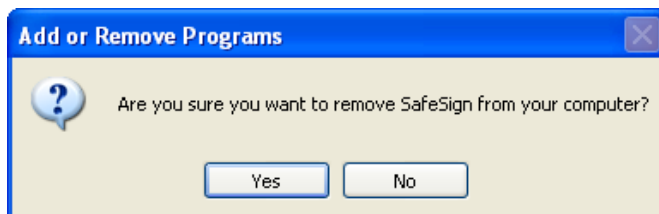


Figure 36: Add or Remove Programs: Are you sure you want to remove SafeSign from your computer?

➔ Click **Yes** to remove SafeSign Identity Client

Windows will start to configure the program for removal:

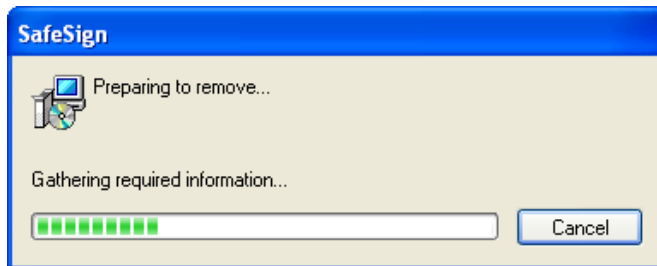


Figure 37: SafeSign: Preparing to remove

➔ Wait until Windows is finished



Note

In order to uninstall the SafeSign Identity Client PKCS #11 Library from Firefox (and/or Netscape and Mozilla, you can use the Netscape Installer; refer to paragraph [2.7](#).

Note that Netscape will not warn you explicitly when deleting the SafeSign Identity Client PKCS #11 Library, but that doing so, disables your ability to work with the token and the Digital IDs it (may) contain(s) in Netscape.

2.6 Upgrade Installation

From SafeSign Identity Client version 2.1.x onwards, it is possible to upgrade an existing installation of SafeSign Identity Client. This means that if you have SafeSign Identity Client 2.1.x or higher installed on your computer and wish to install 2.3.x, you can upgrade by means of the SafeSign Identity Client 2.3.x. setup file.

Note that it is not possible to upgrade from the user to the administrator version. Once you have installed the user version (including the Token Management Utility), upgrading to an administrator version (including the Token Administration Utility) is not possible. You will retain the Token Management Utility, even when the other components are upgraded. In this case, you would have to de-install the existing (user) version first, before re-installing the new (administrator) version with the appropriate installer. Note that from a functional point of view, both user and administrator version are identical, the difference lies in the advanced token operations allowed by the Token Administration Utility.

1

To start the installation of SafeSign Identity Client, locate the SafeSign Identity Client setup file, which will start (to initialise) the SafeSign Identity Client Windows Installer.

➔ Double-click this file

2

SafeSign Identity Client Setup will first ask you which language you want to use for the installation of SafeSign Identity Client:

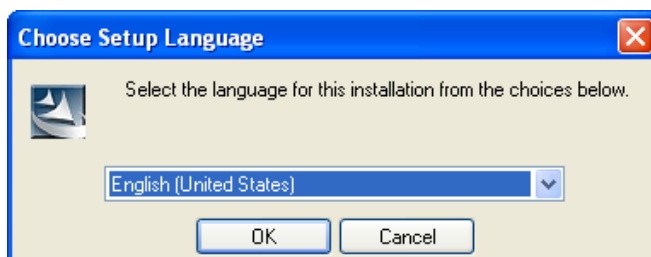


Figure 38: InstallShield Wizard: Choose Setup Language

➔ Select a language from the drop-down list for the installation and click **OK**

3 You will be notified that setup will perform an upgrade:

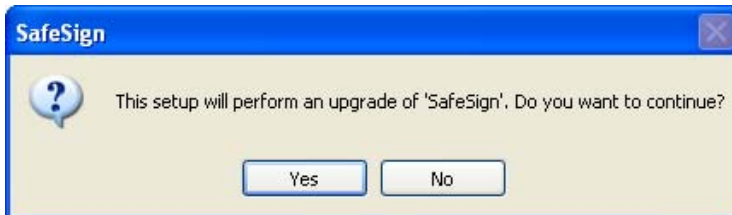


Figure 39: InstallShield Wizard: This setup will perform an upgrade of SafeSign

➔ Click **Yes** to continue

When you have selected a language to install SafeSign Identity Client in, SafeSign Identity Client Setup will prepare the InstallShield Wizard:



Figure 40: InstallShield Wizard: Preparing the InstallShield Wizard

➔ Wait until the InstallShield Wizard continues

4

When the SafeSign Identity Client InstallShield Wizard is started, the *Resuming the InstallShield Wizard for SafeSign* window is displayed, informing you the installation of SafeSign Identity Client will be completed:

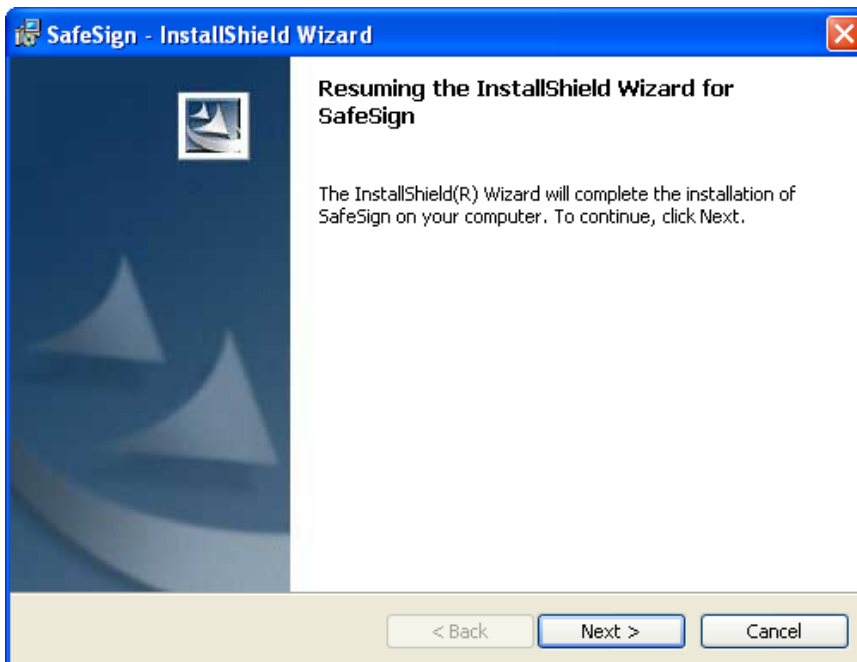


Figure 41: InstallShield Wizard: Resuming the InstallShield Wizard for SafeSign

➔ Click **Next** to continue

5

Upon clicking **Next** in the SafeSign Identity Client InstallShield Wizard *Resuming the InstallShield Wizard for SafeSign* window, the InstallShield Wizard installs SafeSign Identity Client with the same features you selected during the original installation:

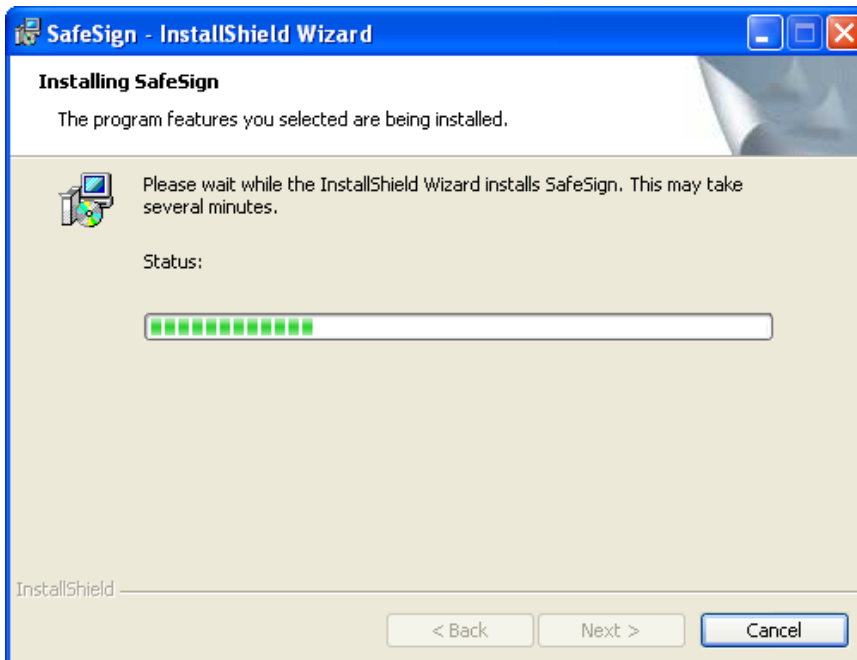


Figure 42: InstallShield Wizard: Installing SafeSign

If you wish to cancel the installation at this stage, click **Cancel**. Please note that when interrupting or cancelling the installation at this point, SafeSign Identity Client will not be installed and your system will not be modified.

- 6 When SafeSign Identity Client is successfully installed, the SafeSign Identity Client InstallShield Wizard *InstallShield Wizard Completed* window is displayed, informing you that SafeSign Identity Client was successfully installed:

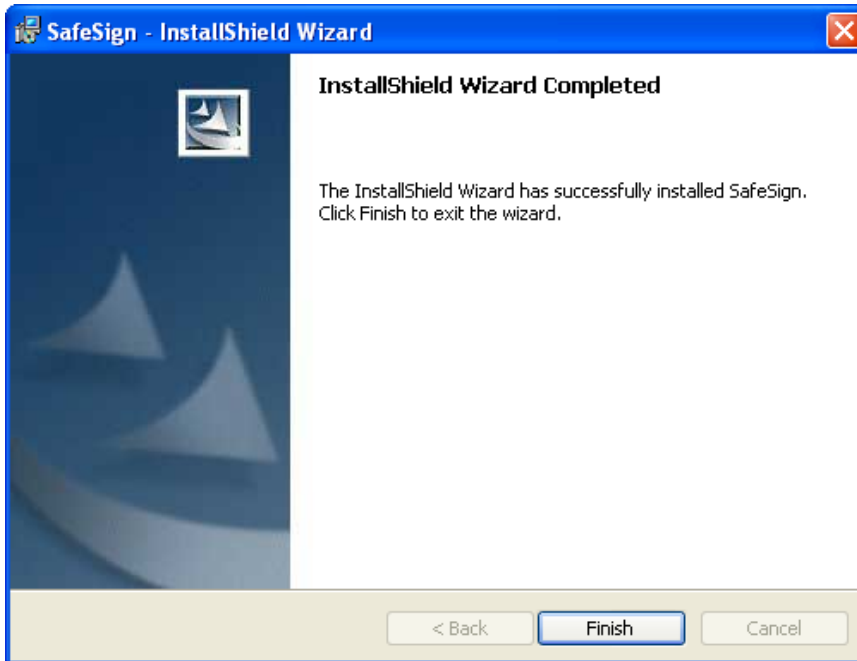


Figure 43: InstallShield Wizard: InstallShield Wizard Completed

- ➔ Click **Finish** to complete setup

Note that you may have to restart your computer:

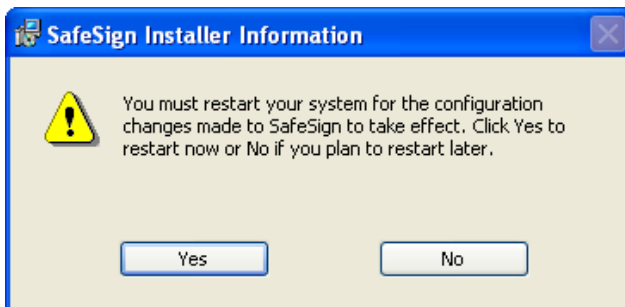


Figure 44: InstallShield Wizard: SafeSign Installer Information

- ➔ Click **Yes** to restart

2.7 Firefox Installer

2.7.1 Install SafeSign in Firefox

When you have Firefox, Netscape and/or Mozilla installed on your computer, the SafeSign Identity Client InstallShield Wizard will allow you to install SafeSign Identity Client in Firefox during the SafeSign Identity Client installation procedure.

1

At a certain point during the setup of SafeSign Identity Client ([Figure 14](#)), the Firefox Installer is loaded:



Figure 45: Firefox Installer: Install SafeSign Identity Client in Firefox

It will list the versions of Firefox, Netscape and/or Mozilla present on your system and allows you to install SafeSign Identity Client as a security module in either one of them.

Note that you may install SafeSign Identity Client in each of the Netscape / Mozilla profiles¹ you have created, as the Firefox Installer window will remain in the background until you have finished and clicked **Close**.

➔ Select a browser from the list and click **Install**

¹ You cannot create multiple users with Firefox (no profiles).



Netscape and/or Mozilla Profiles

When you have only one Netscape and/or Mozilla profile installed, Netscape and/or Mozilla will open that particular profile.

When you have more than one Netscape profile installed, the Netscape *Profile Manager* window:



Figure 46: Netscape Communicator: Profile Manager

Or Mozilla *Select User Profile* window is displayed:

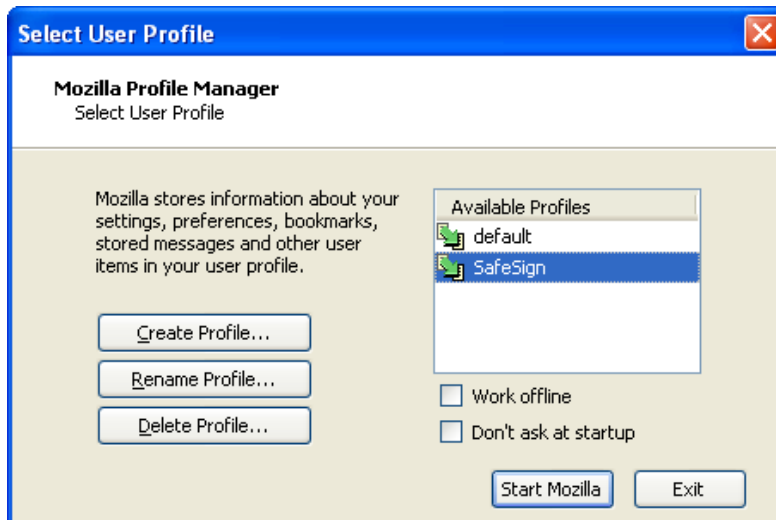


Figure 47: Mozilla: Mozilla Profile Manager

You may now select the profile you want to install SafeSign Identity Client in (in our example, a profile called 'SafeSign Identity Client').

When you have selected the profile you want to install SafeSign Identity Client in, click **Start Communicator** or **Start Mozilla** to continue Setup

Note that in the profile manager windows, you can also click **Manage Profiles** to select a different profile from the one shown.

- 2** Upon selecting a browser from the list and clicking **Install**, the selected browser will open (with an empty browser window), prompting you with the question whether you want to install the SafeSign Identity Client security module and identifies its name and file for you to verify:

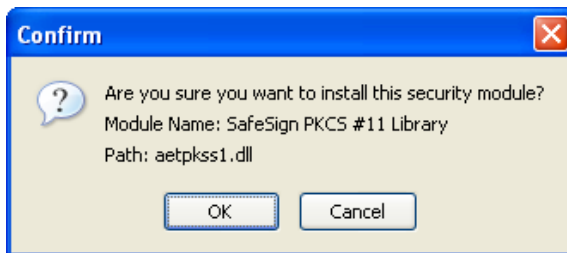


Figure 48: Firefox Installer: Are you sure you want to install this security module?

- ➔ To install the SafeSign Identity Client security module, click **OK**
- Click **Cancel** to cancel installation of the SafeSign Identity Client security module.

- 3** Upon clicking **OK**, you are notified that a new security module has been installed:

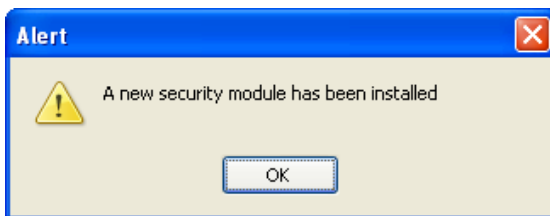


Figure 49: Firefox Installer: A new security module has been installed

- ➔ Click **OK**

- 4** Upon clicking **OK**, the security module is installed and you can close the browser window to return to the *Firefox Installer* window, which has remained in the background ([Figure 45](#)). You can now choose to install SafeSign Identity Client in another browser or in another profile.

If you have finished installing SafeSign Identity Client in your Firefox (and/or Netscape and Mozilla) browser, click **Close** to close the Firefox Installer and continue / finalize the main installation of SafeSign Identity Client (Step 9, [Figure 15](#), in paragraph [2.3](#)).

Note that the Firefox Installer will also be available from the Token Utility (as of SafeSign Identity Client version 2.3), in case you want to install SafeSign Identity Client in Firefox (and/or Netscape and Mozilla) at a later time (for example, if you did not have Firefox installed on your computer when you installed SafeSign Identity Client):

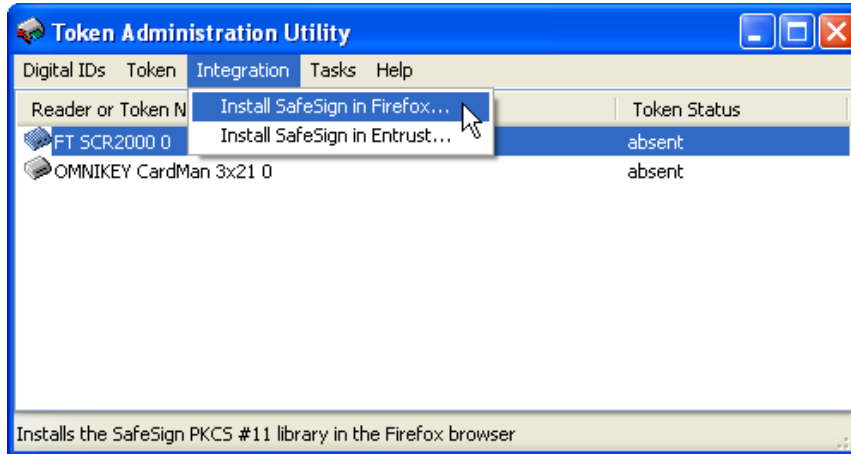


Figure 50: Token Administration Utility: Install SafeSign in Firefox



Security Module already installed

When (you select a profile in which) the SafeSign Identity Client security module has already been installed, clicking **Install** will first ask you if you want to install the security module (as in [Figure 48](#)), after which it will notify you that the module already exists. Note that this only applies to Firefox, Netscape 7.x and higher and Mozilla 1.x:

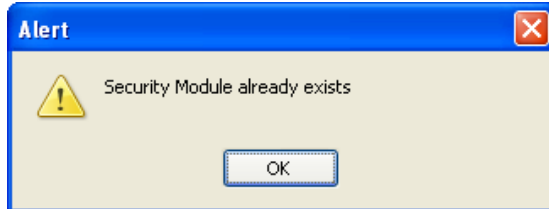


Figure 51: Firefox Installer: Security Module already exists

➔ Click **OK** to close this dialog

2.7.2 Uninstall SafeSign from Firefox

1

The Firefox Installer also allows you to uninstall SafeSign from your Firefox (and/or Netscape and Mozilla) browser. This can be done using the **Uninstall** button from the Firefox Installer:



Figure 52: Firefox Installer: Install SafeSign Identity Client in Firefox

➔ Select a browser from the list and click **Uninstall**

2

The selected browser will open (with an empty browser window), prompting you with the question whether you are sure to delete the SafeSign Identity Client security module and identifies its name for you to verify:

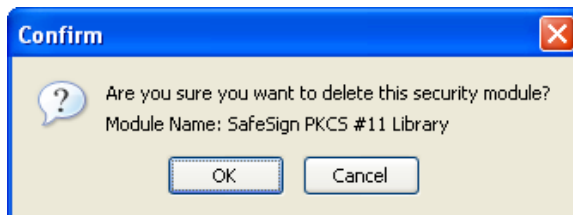


Figure 53: Firefox Installer: Are you sure you want to delete this security module?

➔ To delete the SafeSign Identity Client security module, click **OK**
Click **Cancel** to cancel deletion of the SafeSign Identity Client security module.

3 Upon clicking **OK**, you are notified that the security module has been deleted:

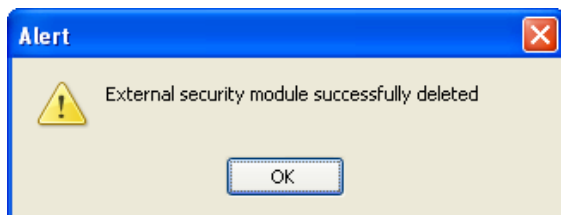


Figure 54: Firefox Installer: External security module successfully deleted

➔ Click **OK**

4 Upon clicking **OK**, the security module is deleted and you can close the browser window to return to the *Firefox Installer* window, which has remained in the background (Figure 52). You can now choose to install / uninstall SafeSign Identity Client in another profile or in another browser or to close the Firefox Installer.

2.8 Entrust Installer

This version of SafeSign Identity Client is unique when compared to similar products in a number of ways:

- Though Entrust allows you to store certificates in public space as opposed to private space (Entrust Authority Security Manager 5.1 or 6.x in combination with Entrust Desktop Solutions 6.1 SP1), this requires some changes in the Entrust Authority settings. SafeSign Identity Client allows you to store all certificates (including the CA certificate) in public space, without making any changes in the Entrust settings, for all Entrust versions. All you need to do is use the Entrust Installer to install SafeSign Identity Client in Entrust.
- SafeSign Identity Client is able to register all Entrust certificates (stored in public space) for applications that use Microsoft CryptoAPI. This so-called dual-headed interface capability allows you for example, to use your Entrust certificate in a Microsoft application as Outlook Express.
- Though Entrust is in itself not capable of dealing with such devices as secure pinpad readers (so-called protected authentication path devices), SafeSign Identity Client allows you do use these devices in Entrust¹.
- SafeSign Identity Client includes enhanced support for Entrust 7, with regard to key recovery and key update.

SafeSign Identity Client Version 2.3 for Windows allows you to install SafeSign Identity Client in Entrust 6.x. This means that it will make the necessary changes in the *entrust.ini* file to allow you to store your Entrust credentials on a SafeSign Identity Client token.

The *entrust.ini* file is a configuration file created by Entrust Authority and used by both Entrust Authority and Entrust Entelligence. The *entrust.ini* file is typically located in the \windows (e.g. Windows 98) or \winnt (e.g. Windows 2000) directory. One of the things the *entrust.ini* file does is to identify where the Entrust software stores and retrieves profiles and other related information. In order to be able to store profiles and other related information on the SafeSign Identity Client Token, you will need to edit the *entrust.ini* file in such a way that it indicates to the Entrust software that that the Entrust profile will be found on the SafeSign Identity Client Token rather than on the local hard drive.

This is what the SafeSign Identity Client Entrust Installer is for. It simplifies integration with Entrust by automatically modifying the *entrust.ini* file by placing two new entries into the file, without the user having to make these changes manually. When you have Entrust installed on your computer (or more specifically, have an *entrust.ini* file in your \windows or \winnt folder), the SafeSign Identity Client InstallShield Wizard will allow you to install SafeSign Identity Client in Entrust during the SafeSign Identity Client installation procedure.

For Entrust 7, refer to the relevant documentation.

¹ Note that the correct functioning depends on the specific Entrust application used.

1

At a certain point during the setup of SafeSign Identity Client (Figure 14), the Entrust Installer is loaded:

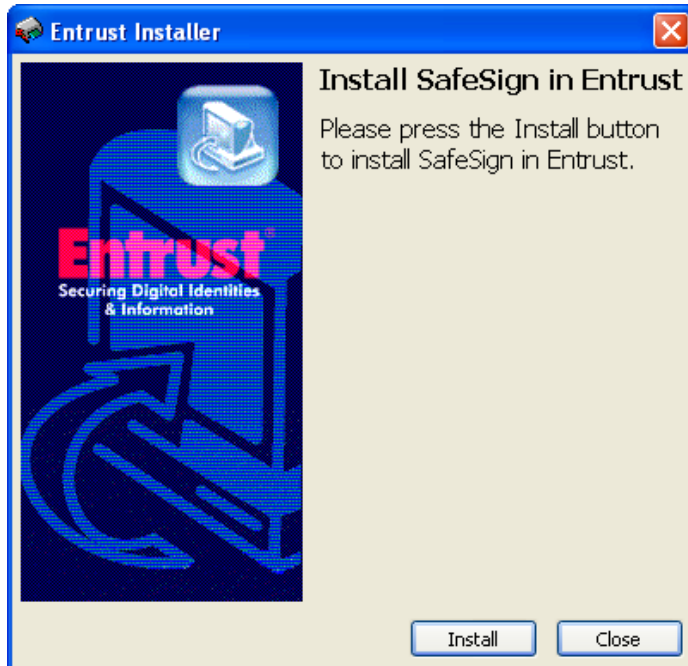


Figure 55: Entrust Installer: Install SafeSign in Entrust

➔ Click **Install** to install SafeSign Identity Client in Entrust



Unable to find Entrust

If you do not have Entrust installed (or no *entrust.ini* file), the *Entrust Installer* window will look like this:

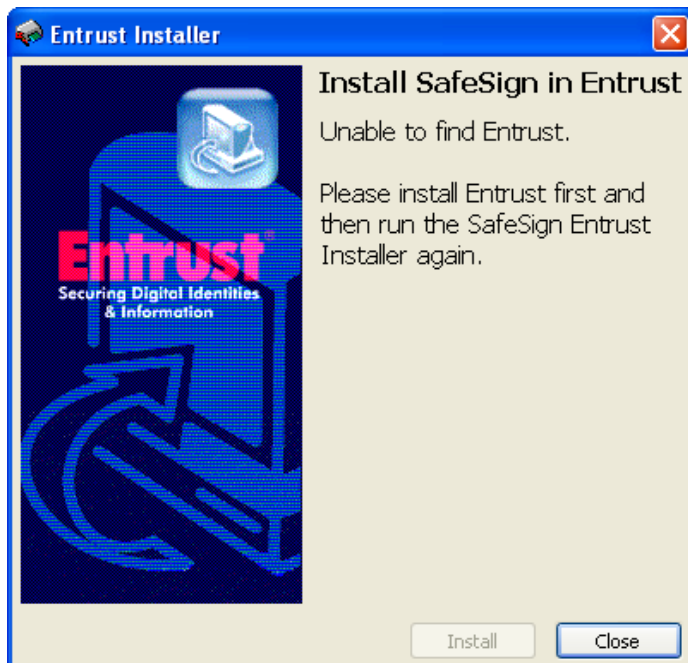


Figure 56: Entrust Installer: Unable to find Entrust

➔ Click **close** to cancel installation of SafeSign Identity Client in Entrust and close the window



Entrust Installer

If you want to install SafeSign Identity Client in Entrust at a later time, you can find the Entrust Installer in the Token Utility, under the **Integration** menu:

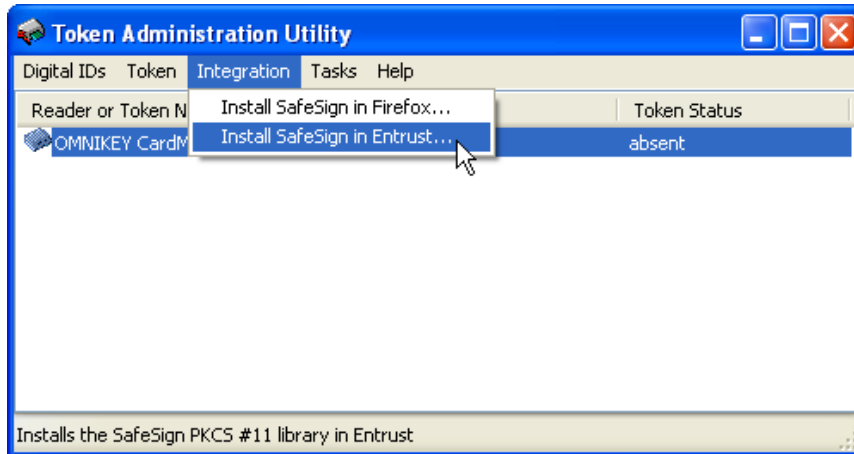


Figure 57: Token Administration Utility: Install SafeSign in Entrust

2

Upon clicking **Install** in the *Entrust Installer* window, SafeSign Identity Client will be installed in Entrust and you will be notified if this has been successful:



Figure 58: Entrust Installer: successfully installed

- ➔ Click **OK** to close this dialog, upon which the *Entrust Installer* window will close



SafeSign Identity Client already installed in Entrust

If SafeSign Identity Client is already installed in Entrust, the *Entrust Installer* window will look like this:

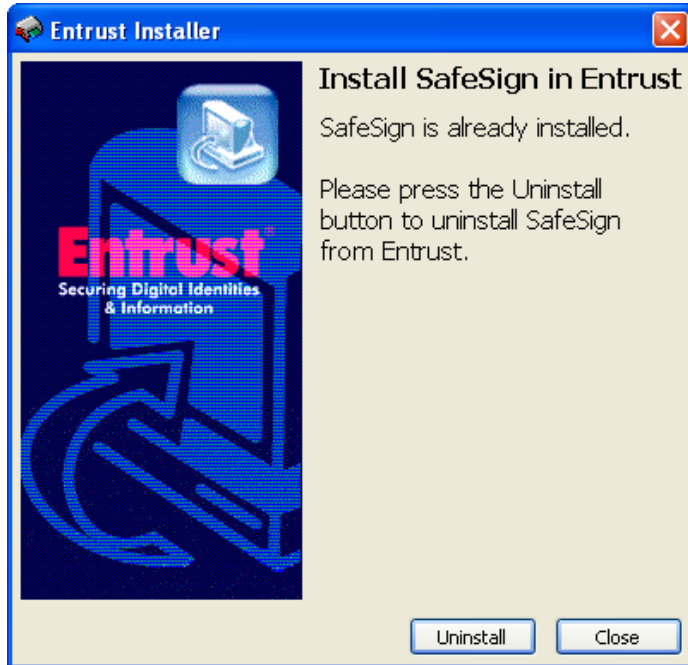


Figure 59: Entrust Installer: SafeSign Identity Client is already installed

Click **Uninstall** to uninstall SafeSign Identity Client from Entrust

Click **Cancel** to cancel installing SafeSign Identity Client in Entrust and close this dialog

If you click **Uninstall**, the following dialog will notify you that un-installation was successful:



Figure 60: Entrust Installer: successfully uninstalled

➔ Click **OK** to close this dialog, upon which the *Entrust Installer* window will close

Appendix 1: Backwards Compatibility

With all releases of SafeSign Identity Client, backwards compatibility is maintained. This means that if you have a token that has been initialised and used with a previous version of SafeSign Identity Client, you can still use this token with the new version of SafeSign Identity Client.

For example, if you have initialised a token with SafeSign Identity Client version 2.1.8, generated a Digital ID on it and used this token to log in to your PC, you can continue to do so with SafeSign Identity Client version 2.3.

Note that it is not possible to use a token initialised with version 2.3, with previous versions.

Version 1.0.8.x

G&D STARCOS SPK cards that have been initialised and used (i.e. generated a Digital ID on) with a 1.0.8.xx version of SafeSign Identity Client can still be used with SafeSign Identity Client Standard Version 2.3 for Windows. However, they cannot be re-initialised as tokens, which were initialised with SafeSign Identity Client Standard Version 2.3:

A test¹ completion G&D STARCOS SPK 2.3 and SPK 2.4 token that has been initialised with SafeSign Identity Client version 1.0.8.xx can be re-initialised with a new token label, PUK and PIN code (*Initialise Token*), but the PKCS #15 card structure will then be updated to the SafeSign Identity Client Standard Version 2.3 PKCS #15 structure. A series completion G&D STARCOS SPK 2.3 and SPK 2.4 token that has been initialised with SafeSign Identity Client version 1.0.8.xx **cannot** be re-initialised / wiped.

Moreover, such tokens (initialised with SafeSign Identity Client 1.0.8.xx versions), cannot display the total / free amount of bytes in SafeSign Identity Client Standard Version 2.3. This information cannot be read from the token, as the (old) file structure does not support this computation.

Note that it is not possible to use tokens, initialised with SafeSign Identity Client Standard Version 2.3 with SafeSign Identity Client versions 1.0.8.xx. Doing so may cause malfunction and may lead to irreparable damage to the token.

SafeSign Identity Client 1.0.9.0x

G&D STARCOS SPK cards that have been initialised and used (i.e. generated a Digital ID on) with a 1.0.9.0x version of SafeSign Identity Client can still be used with SafeSign Identity Client Standard Version 2.3 for Windows. However, tokens can only be re-initialised when they have a test completion.

Java cards initialised with SafeSign Identity Client version 1.0.9.04 will be handled as legacy / production cards, and cannot be re-initialised, but their contents may be wiped. Java cards initialised with SafeSign Identity Client version 1.0.9.04-Update, 2.0.x, 2.1.x and 2.2.x can be re-initialised².

Note that it is not possible to use tokens, initialised with SafeSign Identity Client Standard Version 2.3 with SafeSign Identity Client versions 1.0.9.0x. Doing so may cause malfunction and may lead to irreparable damage to the token.

¹ Completed tokens are completed with a 'series' or 'test' completion. Test completed tokens are intended to be used for evaluation / by developers, series completed tokens are intended to be used by customers / end-users. SafeSign Identity Client supports both test completed and series ('production') completed tokens.

² If the token chip type has been set to identify it as a test card. If the chip type is set to a production card, the token can only be wiped. Note that though this may protect the token from accidentally wiping the contents of the token, for actual production / deployment, the standard test keys should be replaced with production keys.

SafeSign Identity Client 2.0.x, 2.1.x, 2.2.x

G&D STARCOS SPK cards that have been initialised and used (i.e. generated a Digital ID on) with a 2.0.x, 2.1.x or 2.2.x version of SafeSign Identity Client can still be used with SafeSign Identity Client Standard Version 2.3 for Windows. However, tokens can only be re-initialised when they have a test completion.

Java cards initialised with SafeSign Identity Client version 2.0.x, 2.1.x or 2.2.x can still be used with SafeSign Identity Client Standard Version 2.3 for Windows. However, tokens can only be re-initialised when they are test cards¹.

Note that it is not possible to use tokens, initialised with SafeSign Identity Client Standard Version 2.3 with SafeSign Identity Client versions 2.0.x, 2.1.x or 2.2.x. Doing so may cause malfunction and may lead to irreparable damage to the token.

¹ If the token chip type has been set to identify it as a test card. If the chip type is set to a production card, the token can only be wiped. Note that though this may protect the token from accidentally wiping the contents of the token, for actual production / deployment, the standard test keys should be replaced with production keys.

Appendix 2: Manual Installation in Firefox

You can manually install SafeSign Identity Client in Firefox (and/or Netscape and Mozilla).



Note

In order to install the SafeSign Identity Client PKCS #11 Library / security module in Firefox, you should have SafeSign Identity Client installed (with PKCS#11 / cryptographic support for Netscape products).

This procedure differs slightly from one version of Firefox, Netscape and/or Mozilla to another. Consult A.E.T. Europe Support (support@aeteurope.nl) if you need assistance in doing so. This appendix shows you how to do this in Firefox (version 1.5.x).



Installation in Firefox 1.5.x

In Firefox, go to **Tools > Options > Advanced > Security** and click the button **Security Devices**.

When the *Device Manager* window has opened, click on **Load** and fill in the required fields as follows:

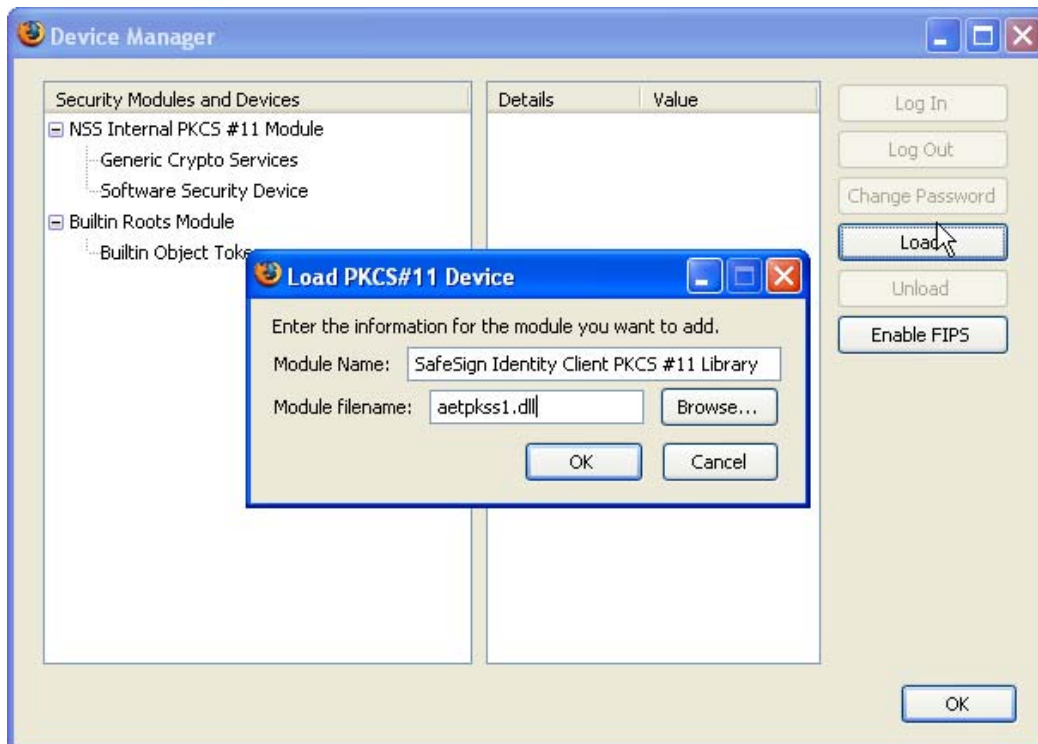


Figure 61: Device Manager: Load PKCS#11 Device

You do not need to enter the full path to the location of the SafeSign Identity Client PKCS #11 Library, e.g. C:\WINNT\system32\ aetpkss1.dll (Windows 2000 / NT) if the file is located in the Windows system directory (as it is by default).

Note that when you have a token inserted, you will be asked to enter the PIN for the token and log in.

Click **OK** and then again to confirm installation of the security module (as in [Figure 48](#)). This will install the SafeSign Identity Client PKCS#11 Library.

Close all open dialogs.

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