



SafeSign Identity Client Minidriver version 4.0

Silent Installation Guide



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Document Information

Document ID: SafeSign IC Minidriver Version 4.0 Silent Installation Guide

Project Information: SafeSign IC User Documentation

Document revision history:

Version	Date	Author	Changes
1.0	31 March 2023	Drs C.M. van Houten	First version for SafeSign IC Minidriver Version 4.0 for Windows, release 4.0.0.0-AET.000

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About the Product

This competent all-rounder in terms of strong authentication, integration and compatibility gives you complete freedom and flexibility. Once rolled out, SafeSign Identity Client (IC) serves as the perfect guard for IT security and enables unlimited possibilities for securing your IT infrastructure.

SafeSign IC offers the most comprehensive support available on the market for (card) operating systems, smart cards, USB tokens, languages and functions. This means you have sustainable and permanent freedom of choice when it comes to manufacturer independence.

SafeSign IC enforces two- or multi factor authentication/logon to the network, client PC or application, 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. Authentication based on smart cards or USB tokens provides the highest degree of security.

SafeSign IC is available for both fixed and mobile devices like desktops, servers, laptops, tablets and smart phones. SafeSign IC is also found in Thin Clients, printers or any other devices requiring authentication.



1 About this Document

Silent installations allow the deployment of software without showing a user interface. If you want your software to run silently, it is possible to create a silent installer.

The aim of this document is to describe how to install SafeSign Identity Client Minidriver (henceforth referred to as SafeSign IC Minidriver) in silent mode / without user interaction.



2 Create a Silent Install

It is possible to perform a silent installation of SafeSign IC Minidriver Windows 64-bit.

This can be done by executing a command in a command line, using the <SafeSign>.msi file (where <SafeSign> is the full name of your SafeSign IC Minidriver installer, for example, “SafeSign IC MiniDriver 4.0.0.0-AET.000 64-bits.msi”), where a few command parameters make a silent installation of SafeSign IC Minidriver possible.

2.1 Parameters

To find a list of relevant parameters and features for silent installation, you can run a complete installation, while a log file is created wherein all the properties that can be modified, will be logged.

Use the following command line (where “logfile.txt” is the name of the resulting log file) to create the log:

```
C:\>msiexec /i "SafeSign IC MiniDriver 4.0.0.0-AET.000 64-bits.msi" /log logfile.txt
```

In this log file, the relevant properties / parameters can be found under: “Property(S): ADDLOCAL = [features]”.

The sections below list the (relevant) ADDLOCAL features of SafeSign IC Minidriver that can be used to install SafeSign IC Minidriver silently.

2.2 SafeSign IC Minidriver

A default (non-silent) installation of 64-bit SafeSign IC Minidriver Version 4.0 will install the following components:

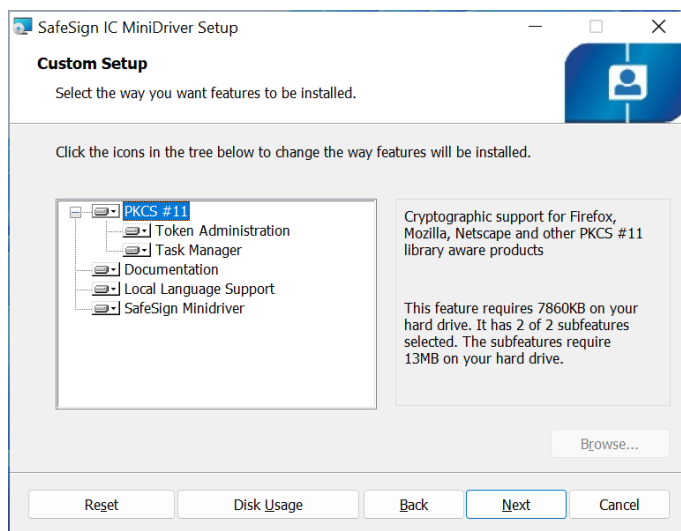



Figure 1: SafeSign IC Minidriver Setup: Custom Setup



For silent installation, these components match the following features listed in “ADDLOCAL:

ComponentName	Feature Name	Description
Token Administration	TokenAdminFeature	Manages SafeSign cryptographic tokens and middleware
PKCS #11	Pkcs11Feature	Cryptographic support for Firefox, Mozilla, Netscape and other PKCS #11 library aware products
Task Manager	TaskManagerFeature	Manage tasks that are performed upon token insertion or removal
Documentation	DocumentationFeature	This will install the SafeSign documentation
Local Language Support	LocaleFeature	Support user interface localization of the utility programs
SafeSign Minidriver	MinidriverFeature	This will install the SafeSign Minidriver
-	InternalFeature	Proprietary, must be installed

 Note that the installation of the features will also create the appropriate registry entries in HKEY_LOCAL_MACHINE\SOFTWARE\[WOW6432Node\]A.E.T. Europe B.V.\SafeSign\2.0.



3 Silent Install MSI Files

Note that the msi installers of SafeSign IC Minidriver are delivered as compressed (zipped) files, which needs to be extracted first, before being able to install the 64-bit (.msi) version in silent mode.

The minimal installation, i.e. the installation of the required components is described, as well as the full installation of all components.

3.1 SafeSign IC Minidriver

Note that for installation and correct operation of SafeSign IC Minidriver 64-bit, both the 32-bit and 64-bit (.dll) components need to be installed.

- Note that lines should be kept together in a command prompt, even if there may be a line break in the command prompt strings below.

3.1.1 Full Installation

Full installation:

```
C:\>msiexec /i "SafeSign IC MiniDriver 4.0.0.0-AET.000 64-bits.msi" /qn  
ADDLOCAL=TokenAdminFeature,Pkcs11Feature,TaskManagerFeature,DocumentationFeature,  
LocaleFeature,MinidriverFeature,InternalFeature
```

3.1.2 Minimal Installation

Minimal installation with Minidriver only:

```
C:\>msiexec /i "SafeSign IC MiniDriver 4.0.0.0-AET.000 64-bits.msi" /qn  
ADDLOCAL=MinidriverFeature,InternalFeature
```

Minimal installation with Minidriver and PKCS #11 only:

```
C:\>msiexec /i "SafeSign IC MiniDriver 4.0.0.0-AET.000 64-bits.msi" /qn  
ADDLOCAL=Pkcs11Feature,MinidriverFeature,InternalFeature
```

3.2 Firefox

As of Mozilla FireFox version 90, Firefox will automatically find and offer to use client authentication certificates provided by the operating system on Windows. See:

<https://blog.mozilla.org/security/2021/07/28/making-client-certificates-available-by-default-in-firefox-90/>.

This means that Firefox works with the SafeSign IC Card Minidriver and that it is no longer necessary to install the SafeSign IC PKCS #11 Library as a security module in Firefox. Therefore, the Firefox Installer has been removed from the installation process of SafeSign IC Minidriver version 4.0.



3.3 Windows Security

During the installation of SafeSign IC Minidriver, Windows Security will ask for permission to install the SafeSign IC Card Minidriver software:

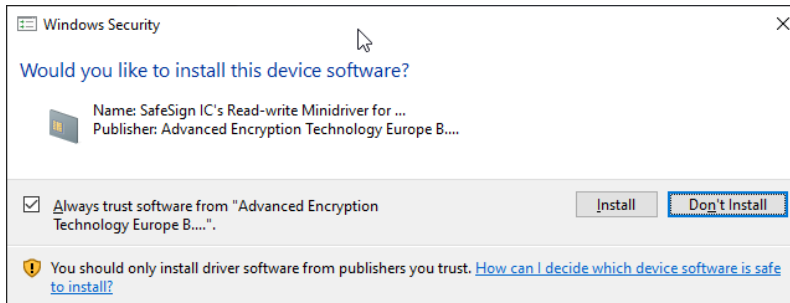


Figure 2: Windows Security: Would you like to install this device software?

In order to complete the installation of the SafeSign IC Minidriver, you need to click **Install**.

It is not possible to make this dialog silent with installation parameters, but in order to ensure that it does not appear during silent installation, you need to make the Card Minidriver's certificate available in the Trusted Publisher's store.

You can do so by running (non-silent) the SafeSign Identity Client Minidriver software and:

- 1 Checking "Always trust software from "Advanced Encryption Technology Europe B..." (in dialog above), which will import the certificate in the Trusted Publisher Store
or
- 2 Not checking this checkbox, but extracting the certificate from the Card Minidriver Catalog file (aetrwcm1.cat), installed in ProgramData\A.E.T. Europe B.V\SafeSign\Minidriver, after installation is completed and import it in the Trusted Publisher store.

You can then export the certificate through the Windows Certificate Manager, so that it is available to be added to the Trusted Publisher store of the clients you want to install SafeSign IC Minidriver on. To install the Signing certificate, execute the following in a command prompt: `certutil -f -addstore "TrustedPublisher" "[name of exported signing certificate].cer"`

3.4 Uninstall

In order to silently uninstall SafeSign IC Minidriver, use the following command lines for 64-bit:

```
C:\>msiexec /uninstall "SafeSign IC MiniDriver 4.0.0.0-AET.000 64-bits.msi" /qn
```

3.4.1 Uninstall SafeSign Card Minidriver

To silently uninstall the SafeSign IC Card Minidriver, use the following command lines for 64-bit:

```
C:\>RunDll32.EXE setupapi.dll,InstallHinfSection DefaultUninstall 130 aetrwcm1-cleanup.clnup
```

Note that in order to ensure that all files are removed and no longer in use, a reboot is required. The value "130" means that users will be asked if they want to reboot. For other options, please refer to [https://msdn.microsoft.com/en-us/library/windows/desktop/aa376957\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/windows/desktop/aa376957(v=vs.85).aspx).