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SafeSign IC Minidriver Version 4.4

Release Document for Windows

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Document Information

Document revision history:

Version	Date	Author	Changes
1.0.0	09/29/2025	C.M. van Houten	Final version for SafeSign IC Minidriver Version 4.4 for Windows: release 4.4.0.0-AET.000
1.1.0	10/14/2025	C.M. van Houten	Updated for SafeSign IC Minidriver Version 4.4 for Windows on ARM: release 4.4.0.0-AET.000

Related documents

Document ID	Title	Author	Details

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1 About this Document

The aim of this document is to document the status of the release of SafeSign Identity Client Minidriver version 4.4 for Windows (henceforth referred to as “SafeSign IC Minidriver version 4.4”).

This document is part of the release documentation of SafeSign IC and is intended to be a reference for both end users and administrators.

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2 Release Information

2.1 Deliverables

SafeSign IC Minidriver version 4.4 is provided as an .msi installation file.

- Note that SafeSign IC Minidriver comes in separate installers for Windows 64-bit and Windows on ARM.

The installer will guide you through the installation of SafeSign IC Minidriver version 4.4.

Alternatively, the .msi installation package can be used for centralised distribution and installation within an enterprise context.

SafeSign IC Minidriver version 4.4 includes the Token Administration Utility user interface for local smart card operations, such as Change PIN and Activate Card.

2.2 Release Date

The date of the release is 14 October 2025.

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2.3 Windows x64

SafeSign IC Minidriver for Windows version 4.4 comes in a 64-bit version only (which does not install on 32-bit Windows Operating Systems) that will work with both 32-bit and 64-bit applications.

- Note that there are two system directories on Windows 64-bit Operating Systems: System32, which is reserved for 64-bit applications and SysWOW64, which is reserved for 32-bit applications.

SafeSign IC Minidriver version 4.4 system files will be installed in both directories (to ensure that both 32-bit and 64-bit applications can work with SafeSign IC), with the following exceptions, which are installed in the System32 directory only:

- The Certificate Expiration Check Utility (aetcrss1.exe);
- The Task Manager (aettask.dll).

The Token Administration Utility's Version Information dialog will indicate which installed files have a 32-bit and/or a 64-bit file version.

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2.3.1 Release Details

SafeSign IC Minidriver for Windows version 4.4 reflects the SafeSign IC product version numbering scheme, i.e. version number, build number and distribution number, which is reflected in the Version Information dialog of the Token Administration Utility.

- Note that the file versions of the components delivered with the release of SafeSign IC Minidriver version 4.4 do not necessarily have the name '4.4.x.x'.

Release version: Minidriver Release 4.4.0.0-AET.000		
Description	**File Name**	**File Version**
Certificate Expiration Check Utility	aetcrss1.exe	3.7.16.1
Common Dialogs	aetdlss1.dll	3.7.22.2
Java Card Handling Library	aetjcss1.dll	3.9.10.1
PKCS #11 Cryptoki Library	aetpkss1.dll	3.9.32.1
PKCS #11 Library Wrapper with automatic login	aetpkssw.dll	3.7.14.1
Task Manager	aettask.dll	3.9.20.1
Secure Messaging Library	aetsm1.dll	3.9.16.1
Kit Library	aetkit1.dll	4.1.11.1
Read/write card-module	aetrwcm1x.dll (64-bit) aetrwcm1.dll (32-bit)	4.7.9.1
Read-only card-module	aetrocm1x.dll (64-bit) aetrocm1.dll (32-bit)	4.7.9.1
Token Administration Utility	tokenadmin.exe	3.8.49.1

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2.4 Windows on ARM

SafeSign IC Minidriver for Windows on ARM version 4.4 supports ARM64 (native), 32-bit and 64-bit Intel applications. This is reflected in the Version Information in the Token Administration Utility on Windows on ARM.

- Note that there are two system directories on Windows on ARM 64-bit Operating Systems: System32, which is reserved for ARM64 and 64-bit Intel applications and SysWOW64, which is reserved for 32-bit Intel applications.

SafeSign IC Minidriver version 4.4 system files will be installed in both directories (to ensure that 32-bit, 64-bit and ARM64 applications can work with SafeSign IC), with the following exceptions, which are installed in the System32 directory only:

- The Certificate Expiration Check Utility (aetcrss1.exe);
- The Task Manager (aettask.dll).

The Token Administration Utility's Version Information dialog will indicate which installed files have a 32-bit, 64-bit and ARM64 file version.

- Note that SafeSign IC Minidriver for Windows on ARM does not include the SafeSign IC read/write Minidriver.

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2.4.1 Release Details

SafeSign IC Minidriver for Windows on ARM version 4.4 reflects the SafeSign IC product version numbering scheme, i.e. version number, build number and distribution number, which is reflected in the Version Information dialog of the Token Administration Utility.

- Note that the file versions of the components delivered with the release of SafeSign IC Minidriver version 4.4 do not necessarily have the name '4.4.x.x'.

Release version: Minidriver Release 4.4.0.0-AET.000		
Description	**File Name**	**File Version**
Certificate Expiration Check Utility	aetcrss1.exe	3.7.17.x
Common Dialogs	aetdlss1.dll	3.7.23.x
Java Card Handling Library	aetjcss1.dll	3.9.11.x
PKCS #11 Cryptoki Library	aetpkss1.dll	3.9.32.x
PKCS #11 Library Wrapper with automatic login	aetpkssw.dll	3.7.15.x
Task Manager	aettask.dll	3.9.21.x
Secure Messaging Library	aetsm1.dll	3.9.17.x
Kit Library	aetkit1.dll	4.1.12.x
Read-only card-module	aetrocm1x.dll (64-bit) aetrocm1.dll (32-bit)	4.7.9.x
Token Administration Utility	tokenadmin.exe	3.8.51.x

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- Note that in the distribution number (AET.000), the prefix AET is unique and reserved for AET Europe general releases only.
- Note that when saving the version information to a file, there may be components listed that are not available in the SafeSign IC version installed. For example, in SafeSign IC Minidriver version 4.4, the Credential Provider 'aetcpss1.dll' is listed, but as 'not installed'.

2.5 Release Documents

SafeSign IC Minidriver version 4.4 provides at least the following release documentation:

Document Name	Version
SafeSign IC Minidriver Version 4.4 Release Document for Windows	1.1.0

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3 Features

The following features are supported by SafeSign IC Minidriver version 4.4:

1. Multiple Token Support
2. Multiple Smart Card Reader Support
3. Multiple Application Support
4. Multiple Language Support
5. Activate QSCD Card Support
6. RSA 4096-bit Key Support
7. ECC Key Support
8. Microsoft WHQL certified (read-only) Minidriver
9. Extended PKCS #1 Padding Support
10. Windows on ARM Support

These features are described in the following paragraphs.

3.1 Multiple Token Support

SafeSign IC Minidriver version 4.4 supports a large number of smart cards and tokens, as listed in section 7.

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3.2 Multiple Smart Card Reader Support

SafeSign IC Minidriver version 4.4 supports the use of PC/SC v2.0 Class 1 smart card readers.

SafeSign IC Minidriver version 4.4 includes support for some additional smart card readers for extended APDU. See section 3.6.1 for details.

SafeSign IC Minidriver version 4.4 has been tested to support a number of smart card readers, as listed in section 8.

3.3 Multiple Application Support

SafeSign IC Minidriver version 4.4 supports applications on Windows that work through PKCS #11 or Microsoft CryptoAPI (NG).

SafeSign IC Minidriver version 4.4 supports a number of applications, that provide the following functionality:

- Web authentication
- Email signing and encryption
- Document signing
- Smart card logon
- Terminal Server logon

SafeSign IC Minidriver version 4.4 has been tested to support a number of applications, as listed in section 9.

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3.4 Multiple Languages Support

SafeSign IC Minidriver version 4.4 supports a number of different languages.

When installing the SafeSign IC Minidriver .msi package, the default language of the installation program will be English. In order to install in a particular language, you will need to install the .msi with specific parameters, to apply a transform.

Section 10 lists the Windows language code identifiers and transform files to do so.

3.5 Activate QSCD Card Support

In accordance with the (European) eIDAS Regulation and related standards for cryptographic modules, the legitimate user/signatory of a Qualified Signature Creation Device (QSCD) is responsible for activating the card (keys), i.e. to change the state of the card (keys) from non-operational to operational.

The SafeSign IC Token Administration Utility offers users of a QSCD the possibility to activate their card. When a QSCD is inserted in the smart card reader, the SafeSign IC middleware will enable the user to activate the card, based on the presence of the Common Criteria (CC) certified SafeSign IC applet and the card-specific ATR. If these conditions are met, the Token menu of the SafeSign IC Token Administration Utility will display the option 'Activate Card'.

- Note that the activation process for a particular card may be very specific. It may require the user to:
  - authenticate to the card by entering the PIN (UZI-pas 3, UZI-pas 4, UZI-pas 5 and SafeSign QSCD);
  - change the Transport PIN set for the card (Defensiepas 3);

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SafeSign IC Minidriver version 4.4 supports the following QSCD cards:

- Defensiepas 3
- UZI-pas 3
- UZI-pas 4
- UZI-pas 5
- SafeSign Default/Generic QSCD (JCOP 3)
- QSCD on JCOP 4

3.6 RSA 4096-bit Key Support

SafeSign IC Minidriver version 4.4 includes support for RSA 4096-bits keys.

- Note that support for RSA 3072-bits keys is also included.

This functionality requires one of the following cards/tokens:

- A JCOP 4 QSCD card with the Common Criteria (CC) certified SafeSign IC applet, i.e. applet version 3.0.1.12 / 3.0.1.13 / 3.0.1.14 and a smart card reader that supports extended APDUs.
- A JCOP 4 card with SafeSign IC applet version 3.1.0.38.
- A G+D Sm@rtCafé Expert 7.0 FIPS card with SafeSign IC applet version 3.1.0.36 or 3.1.0.37.
- A G+D Sm@rtCafé Expert 7.0 CUT S (M) USB token with SafeSign IC applet version 3.1.0.35, 3.1.0.36 or 3.1.0.37.
- A G+D Sm@rtCafé Expert 8.0 card with SafeSign IC applet version 3.1.0.38.

- Note that applet version 3.1.0.37 and 3.1.0.38 support secure messaging for Brazil on G+D Sm@rtCafé Expert cards / tokens.

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3.6.1 Extended APDU

An extended APDU is an APDU (command) with data and/or response of more than 256 bytes, as defined by ISO/IEC 7816-4.

Because sending extended APDUs can cause issues with readers/drivers that do not support it (resulting in the reader or drivers crashing), a whitelist is added in the registry with the names of the readers tested and supported, that indicates the maximum APDU size for each reader. If your reader is not in the list, the use of extended APDUs is not possible.

- Note that only the JCOP 4 QSCD card with the Common Criteria (CC) certified SafeSign IC applet, i.e. applet version 3.0.1.12 / 3.0.1.13 / 3.0.1.14, requires a smart card reader with extended APDU support for RSA 3072-bits and 4096-bit keys.

The whitelists can be found here:

HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\A.E.T. Europe B.V.\SafeSign\2.0\Readers

These readers are verified by AET Europe to work on all supported Operating Systems and the whitelist should not be modified.

See also section 8.1.

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3.7 ECC Key Support

SafeSign IC Minidriver version 4.4 includes support for ECC keys.

For this functionality to be available, the following is required:

- A JCOP 4 QSCD card with the Common Criteria (CC) certified SafeSign IC applet, i.e. applet version 3.0.1.13 or 3.0.1.14.
- A JCOP 4 card with SafeSign IC applet version 3.1.0.38.
- A G+D Sm@rtCafé Expert 7.0 FIPS card with SafeSign IC applet version 3.1.0.36 or 3.1.0.37.
- A G+D Sm@rtCafé Expert 7.0 CUT S USB token with SafeSign IC applet version 3.1.0.36 or 3.1.0.37.
- A G+D Sm@rtCafé Expert 8.0 card with SafeSign IC applet version 3.1.0.38.

Note that applet version 3.1.0.37 and 3.1.0.38 support secure messaging for Brazil on G+D Sm@rtCafé Expert cards / tokens.

The following NIST named curves are supported:

- P-256
- P-384
- P-521

The following algorithms are supported for these curves:

- ECDSA
- ECDH

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3.8 Microsoft WHQL certified (read-only) Minidriver

Starting with Windows 11 22H2, Microsoft has made changes with regard to security, including stricter security with regard to authentication providers that are loaded into the Local Security Authority Subsystem Service (LSASS) during logon to Windows.

This additional protection results in users of SafeSign IC not being able to use their smart card for logon to local or remote connections on Windows (in which the Minidriver is involved), because the SafeSign IC (read/write) Minidriver is not certified by Microsoft.

With the release of SafeSign IC Minidriver version 4.x, we included the SafeSign read-only Minidriver that passed Windows Hardware Lab Kit (HLK) testing and is digitally signed by WHQL (as published in the Windows Compatible Products List).

This makes the SafeSign IC read-only Minidriver fully trusted in Windows, allowing smartcard logon.

Which Minidriver you need to install, depends on what purpose it needs to serve:

- The read-only Minidriver is ideal for essential tasks, such as authentication, smart card logon and secure remote access. It does not support key generation and certificate installation.
- The read/write Minidriver is best suited for comprehensive security operations such as key generation and certificate management.

Note that SafeSign IC Minidriver for Windows on ARM version 4.4 does not include the SafeSign IC read/write Minidriver. Windows on ARM does not allow you to install/use non-Microsoft signed drivers. During installation, you will only be able to install the SafeSign read-only Minidriver.

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By default, SafeSign IC Minidriver for Windows version 4.4 will install the read-only Minidriver, but the installation file allows you to install either the read-only (aetrocm), the read/write (aetrwcm) Minidriver or both.

- Note that you will have to uninstall both the SafeSign IC Card Minidriver and the SafeSign IC software (as described in the Installation Guide) to change the installation of either the read-only or read/write Minidriver.

In the HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards registry key, all ATRs will by default be associated with the Minidriver you selected during installation or the read-only Minidriver if you selected to install both.

If you want to use your card with the read/write Minidriver (e.g. for enrolment), you need to edit the registry entry for this particular card in the HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards registry key, so it contains the name of the read/write Minidriver file. How to do this is described in the Administrators' Guide.

- Please note that although you can select both versions to be installed on your system, we strongly recommend not to do so. We recommend that the read/write Minidriver is installed on enrollment stations, whereas the read-only Minidriver is installed on users' workstations (as it allows for smart card logon) and on Terminal Servers (to allow for remote logon).

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3.9 Extended PKCS #1 Padding Support

SafeSign IC Minidriver version 4.4 now includes support for PKCS #1 PSS padding (for signing and verifying) and PKCS #1 OAEP padding (for encryption and decryption) for RSA operations to be performed on the card.

This functionality requires a JCOP 4 QSCD card with Common Criteria (CC) certified applet version 3.0.1.14.

3.10 Windows on ARM Support

SafeSign IC Minidriver version 4.4 now supports Windows on ARM and comes with an additional separate installer that supports both ARM64 (native), 32-bit and 64-bit Intel applications.

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4 New Features and Fixes

SafeSign IC Minidriver version 4.4 contains new features, fixes and changes.

4.1 New

- Added support for on-card PKCS #1 PSS and OAEP padding (on JCOP 4 with Common Criteria certified applet 3.0.1.14).
- SafeSign read-only Minidriver included in SafeSign IC 4.4 is newly certified (and published in the Windows Compatible Products List).
- Added support for JCOP 4 card with SafeSign IC applet version 3.1.0.38.
- Added support for the (future) UZI-pas 5 (ATR).
- Support for Windows on ARM.

4.2 Fixed

- Because Microsoft deprecated usage of merge modules in Visual Studio, SafeSign IC Minidriver for Windows on ARM now includes the VC Runtime installer in the release archive. If the runtime is not found or out-of-date, the user will be notified during SafeSign IC Minidriver installation (which will abort), upon which he can first install the runtimes and re-run the SafeSign IC Minidriver installer. Note that this applies to SafeSign IC Minidriver for Windows on ARM installer only.

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5 Known Issues

5.1 General

- Firefox cannot handle a certificate that does not have a label. As a workaround, you can set a label on the keys and certificate in the Token Administration Utility's Show Token Objects dialog.
- As of Mozilla Firefox version 90, Firefox will automatically find and offer to use client authentication certificates provided by the operating system on Windows. Hence, it is no longer necessary to install the SafeSign IC PKCS #11 Library as a security module in Firefox.
- Signing and encrypting and/or decrypting an e-mail message with an ECC key/certificate using the SafeSign IC PKCS #11 library installed as a security module in Thunderbird results in an error message (unable to encrypt message). This issue was reproduced with an ECC key generated in software as well and other evidence seems to point to this being a limitation within Thunderbird. It is expected that Thunderbird will start working once it has been implemented properly.
- Receiving an RSA-signed and encrypted message in Thunderbird with a G+D Sm@rtCafé Expert 7.0 card or token with SafeSign IC RIC (Brazil) applet (e.g. applet version 3.1.0.14 or 3.1.0.37) with secure messaging enabled, fails. Thunderbird reports that it cannot decrypt the message. Note that previous versions of Thunderbird (including the version used when testing the release of SafeSign IC Minidriver 4.0, i.e. 102.9.0) may work.

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- Web authentication with an ECC key/certificate using the SafeSign IC PKCS #11 library installed as a security module in Firefox fails, with the web site not loading after entering the PIN and selecting a certificate. This (still) happens in the latest version of Firefox (while versions 123.x and 127.x are still working). This issue has been observed on other Operating Systems as well. Note that there is no issue when using the OS client integration (with the SafeSign IC Minidriver).

5.2 SafeSign IC

- When importing a CA certificate file (either during initialisation or by the function Import Certificate), *.crt files are not selected by the default file extensions (*.cer, *.der), although the import does work.
- When creating a data object containing no data (done by using an empty CKA_VALUE), an error occurs (CKR_DEVICE_ERROR). According to the PKCS #11 standard, it is allowed to leave the CKA_VALUE empty. Although the SafeSign PKCS #11 implementation correctly handles the empty CKA_VALUE, the command to create the file fails. As a workaround, a null-byte should be used instead of an empty byte.
- The Token Utility will only display and register Digital IDs that have a private key. When requesting a new Digital ID, the Token Utility may not display the new Digital ID with the green card icon. This is caused by the fact that the Minidriver does not update the token cache. This is a display issue only (the keys and certificates are stored on the token) and it does not affect the functionality of the SafeSign IC Minidriver/the Digital ID in any way.
- In languages other than English, some items in the Version Information dialog are not translated (e.g. Build number, Distribution number and the names of the Secure Messaging libraries).

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- When enabling the registry setting GenerateEventLogs (in HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\A.E.T. Europe B.V.\SafeSign\2.0), events will be logged (such as incorrect PIN attempts), but also an error (EventID 258) will occur. This has been the case in previous SafeSign IC Minidriver versions as well.
- The copyright text in the About dialog (both in English and in foreign languages) may not be displayed in full.
- During installation, the Custom Setup window will only include localisation of the read-only and read/write Minidriver components in Dutch, German, Portuguese, Brazilian Portuguese, Serbian Latin and Serbian Cyrillic.
- Note that on Windows 11 22H2 and higher, smart card logon fails on a G+D Sm@rtCafé Expert 7.0 CUT S token with SafeSign IC RIC (Brazil) applets (e.g. applet version 3.1.0.16 or 3.1.0.37) with secure messaging enabled.
- The Readers and Readers.rocm whitelists in the registry are not an exact match. The Readers.rocm whitelist does not include the Neowave WinkeoSIM Reader, for example, but this reader is supported with extended APDU nevertheless.
- When setting up a connection to a remote Terminal Server and authenticating locally on the client, the error “No credentials are available in the security package” is shown with a smart card associated with read/write Minidriver (whether through installation or manually in Program Data).

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5.3 Windows on ARM

- The message that informs the user that the Visual Studio redistributables are not installed or the correct version is not installed, is currently by default in English.

5.4 Windows 64-bit

- SafeSign IC Minidriver version 4.4.0.0 on Windows (Intel) 64-bit does not support 32-bit applications. The Windows Security dialog to enter the PIN for the token gives an error “The smart card cannot perform the requested operation or the operation requires a different smart card”. This will be fixed in a future release.

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6 Supported Operating Systems

SafeSign IC Minidriver version 4.4 has been tested to support the following Windows Operating System(s):

Operating System	Version 4.4.0.0
Windows 10 (Pro, Enterprise) x64	√
Windows 11 (Pro, Enterprise) x64	√
Windows 11 (Pro, Enterprise) on ARM	√
Windows Server 2019 x64	√
Windows Server 2022 x64	√

Like every SafeSign IC release, SafeSign IC Minidriver version 4.4 was tested on the aforementioned Windows Operating Systems with the (latest) Service Pack and Updates available at that time. Though SafeSign IC Minidriver version 4.4 may work on older/other versions of these Operating Systems, only support requests for issues reproduced on the supported Windows Operating Systems listed above (up-to-date with the latest Windows Updates) will be taken into consideration.

- Note that for testing SafeSign IC Minidriver for Windows 11 on ARM, a Lenovo IdeaCentre Mini 01Q8X10 with Snapdragon® X – X126100 – Qualcomm® Oryon™ CPU was used.

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7 Supported Tokens

SafeSign IC Minidriver version 4.4 supports the smart cards and tokens listed below.

These tokens have been tested to work as part of the release testing for SafeSign IC Minidriver version 4.4.

The SafeSign IC PKI applet enables end users to utilise Java Card 2.2.2 and higher compliant cards with the SafeSign IC middleware. A Java card or token must contain an installed SafeSign IC applet before it can be used with SafeSign IC.

As the correct functioning of SafeSign IC depends on a properly produced smart card or USB Token, AET Europe requires that smart cards and/or USB tokens are produced for use with SafeSign IC in accordance with our QA policies (which require e.g. the correct applet to be pre-installed in a secure environment and a custom keyset). This is a condition to be eligible for support by AET Europe in case of problems, in addition to a valid SafeSign IC Support Agreement.

Card Type
Defensiepas 2
Defensiepas 3 (QSCD)
G&D Sm@rtCafé Expert 3.2
G&D Sm@rtCafé Expert 4.0
G&D Sm@rtCafé Expert 5.0
G&D Sm@rtCafé Expert 6.0
G&D Sm@rtCafé Expert 7.0
G&D Sm@rtCafé Expert 8.0
Gemalto IDCore 30
Infineon Oracle JCOS Ed.1

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Card Type
JCOP21 v2.3
NXP J2A080 / J2A081 (JCOP 2.4.1 R3)
NXP J2D081 (JCOP 2.4.4 R2)
NXP J3A080 (JCOP 2.4.1 R3)
NXP JCOP 2.4.4 R3
NXP JCOP 3 SecID P60
NXP JCOP 4 P71
NXP JCOP 4.5
Oberthur IDOne Cosmo v7.0
RDW ABR kaart
Rijkspas
Rijkspas 2
StarSign Crypto USB Token S
UZI-pas 2
UZI-pas 3 (QSCD)
UZI-pas 4 (QSCD)
UZI-pas 5 (QSCD)
ZORG-ID Smartcard

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7.1 Supported ATRs

Below you will find a complete list of the ATRs supported by SafeSign IC Minidriver version 4.4.

Card Name	ATR
Changingtec JCOP	3b,f8,18,00,ff,81,31,fe,45,00,73,c8,40,00,00,90,00,7f
Defensiepas 2	3b,f9,18,00,00,81,31,fe,45,39,35,32,38,35,30,31,33,32,d9
Defensiepas 3	3b,dc,18,ff,81,91,fe,1f,c3,06,0a,2b,06,01,04,01,e9,10,05,01,03,d2
G&D Sm@rtCafé Expert 3.2 (T=CL) DSV	3b,7a,18,00,00,73,66,74,65,20,63,64,31,34,34
G&D Sm@rtCafé Expert 3.2 72k	3b,f7,18,00,00,80,31,fe,45,73,66,74,65,2d,6e,66,c4
G&D Sm@rtCafé Expert 3.2 80k	3b,fd,18,00,00,80,31,fe,45,73,66,74,65,2d,63,64,30,38,30,2d,6e,66,dc
G&D Sm@rtCafé Expert 3.2 FI	3b,fd,18,00,00,80,31,fe,45,73,66,74,65,20,63,64,31,34,34,2d,6e,66,d8
G&D Sm@rtCafé Expert 3.2 FI (T=CL)	3b,8d,80,01,73,66,74,65,20,63,64,31,34,34,2d,6e,66,3b
G&D Sm@rtCafé Expert 4.0	3b,78,13,00,00,00,73,c8,40,13,00,90,00
G&D Sm@rtCafé Expert 4.0 FI	3b,f8,18,00,00,80,31,fe,45,00,73,c8,40,13,00,90,00,92
G&D Sm@rtCafé Expert 4.0 FI (T=CL)	3b,88,80,01,00,73,c8,40,13,00,90,00,71
G&D Sm@rtCafé Expert 5.0 (T=CL)	3b,89,80,01,53,46,2d,34,43,43,2d,30,31,28
G&D Sm@rtCafé Expert 6.0 (USB Token)	3b,fd,18,00,00,81,31,fe,45,53,43,45,36,30,2d,43,43,30,38,31,2d,46,c2
G&D Sm@rtCafé Expert 6.0 FIPS	3b,fd,18,00,00,80,31,fe,45,53,43,45,36,30,2d,43,44,30,38,31,2d,46,c4
G&D Sm@rtCafé Expert 6.0 FIPS (T=CL)	3b,8d,80,01,53,43,45,36,30,2d,43,44,30,38,31,2d,46,27
G&D Sm@rtCafé Expert 6.0 FIPS 144k (T=CL)	3b,8d,80,01,53,43,45,36,30,2d,43,44,31,34,35,2d,46,2e
G&D Sm@rtCafé Expert 6.0 Non FIPS	3b,fe,18,00,00,80,31,fe,45,53,43,45,36,30,2d,43,44,30,38,31,2d,6e,46,a9
G&D Sm@rtCafé Expert 6.0 Non FIPS (T=CL)	3b,8e,80,01,53,43,45,36,30,2d,43,44,30,38,31,2d,6e,46,4a
G&D Sm@rtCafé Expert 6.0 Non FIPS 144k	3b,fe,18,00,00,80,31,fe,45,53,43,45,36,30,2d,43,44,31,34,35,2d,6e,46,a0
G&D Sm@rtCafé Expert 6.0 Non FIPS 144k (T=CL)	3b,8e,80,01,53,43,45,36,30,2d,43,44,31,34,35,2d,6e,46,43

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G&D Sm@rtCafé Expert 7.0 CC	3b,f9,96,00,00,80,31,fe,45,53,43,45,37,20,00,00,20,20,27
G&D Sm@rtCafé Expert 7.0 CC (T=CL)	3b,89,80,01,53,43,45,37,20,00,00,20,20,4a
G&D Sm@rtCafé Expert 7.0 FIPS	3b,f9,96,00,00,80,31,fe,45,53,43,45,37,20,03,00,20,46,42
G&D Sm@rtCafé Expert 7.0 FIPS (T=CL)	3b,89,80,01,53,43,45,37,20,03,00,20,46,2f
G&D Sm@rtCafé Expert 7.0 NXP	3b,f9,96,00,00,80,31,fe,45,53,43,45,37,4e,58,50,20,20,41
G&D Sm@rtCafé Expert 7.0 NXP (T=CL)	3b,89,80,01,53,43,45,37,4e,58,50,20,20,2c
G&D Sm@rtCafé Expert 7.0 PIV	3b,f9,96,00,00,80,31,fe,45,53,43,45,37,20,0f,00,20,46,4e
G&D Sm@rtCafé Expert 8.0	3b,de,97,00,80,31,fe,45,53,43,45,20,38,2e,30,2d,43,31,56,30,0d,0a,2e
Gemalto IDCore 30	3b,7f,96,00,00,80,31,80,65,b0,84,41,3d,f6,12,00,4c,82,90,00
HID Crescendo C700	3b,df,18,ff,81,31,fe,45,80,59,01,80,48,49,44,43,37,30,30,73,00,01,1b,33
Infineon Oracle JCOS Ed.1	3b,fd,96,00,00,80,31,fe,45,53,4c,4a,35,32,47,78,78,79,79,79,7a,52,25
JCOP21 v2.3.1 (Winter AG)	3b,fa,18,00,ff,81,31,fe,45,4a,43,4f,50,32,31,56,32,33,31,65
NXP J2A080 (Winter AG GTN)	3b,fd,18,00,00,81,31,fe,45,06,0b,60,84,10,01,87,6b,01,03,05,04,02,fb
NXP J2A080-J3A080 (TA1=96)	3b,f8,96,00,ff,81,31,fe,45,4a,43,4f,50,76,32,34,31,cd
NXP J2A080-J3A080 (Winter AG)	3b,f8,18,00,ff,81,31,fe,45,4a,43,4f,50,76,32,34,31,43
NXP J2D081	3b,f5,13,00,00,81,31,fe,45,73,74,64,31,30,8f
NXP J3A080	3b,f8,13,00,00,81,31,fe,45,4a,43,4f,50,76,32,34,31,b7
NXP J3D081 (T=CL)	3b,89,80,01,4a,43,4f,50,32,34,32,52,32,4a
NXP JCOP 2.4.4 R3 (Austriacard)	3b,f9,18,00,00,81,31,fe,45,4a,43,4f,50,32,34,32,52,33,a9
NXP JCOP 2.4.4 R3 (exceet Card AG)	3b,f9,18,00,ff,81,31,fe,45,4a,43,4f,50,32,34,32,52,33,56
NXP JCOP 3 SecID P60	3b,dc,18,ff,81,91,fe,1f,c3,80,73,c8,21,13,66,05,03,63,51,00,02,50
NXP JCOP 4 P71	3b,dc,18,ff,81,91,fe,1f,c3,06,0a,2b,06,01,04,01,e9,10,04,01,04,d4
NXP JCOP 4.5	3b,dc,18,ff,81,B1,fe,45,1f,c3,06,0a,2b,06,01,04,01,e9,10,04,01,05,b0

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Oberthur IDone Cosmo v7.0.1	3b,db,96,00,80,b1,fe,45,1f,83,00,31,c0,64,1a,18,01,00,07,90,00,5a
Oberthur IDone Cosmo v7.0.2	3b,db,96,00,80,b1,fe,45,1f,83,00,31,c0,64,1f,18,01,00,01,90,00,59
QSCD on JCOP 4 P71	3b,db,18,ff,81,91,fe,1f,c3,06,09,2b,06,01,04,01,e9,10,05,04,d0
RDW ABR kaart	3b,fa,18,00,00,81,31,fe,45,06,08,2a,84,10,01,87,6e,08,08,b1
Rijkspas	3b,fa,18,00,00,81,31,fe,45,06,08,2a,84,10,01,87,6e,08,05,bc
Rijkspas 2	3b,fa,18,00,00,81,31,fe,45,06,08,2a,84,10,01,87,6e,08,07,be
SafeSign Default QSCD	3b,db,18,ff,81,91,fe,1f,c3,06,09,2b,06,01,04,01,e9,10,05,03,d7
StarSign Crypto USB-Token S	3b,f9,96,00,00,81,31,fe,45,53,43,45,37,20,0e,00,20,20,28
UZI-pas 2	3b,fd,18,00,ff,81,31,fe,45,43,49,42,47,55,5a,49,4a,32,41,30,38,31,58
UZI-pas 3	3b,dc,18,ff,81,91,fe,1f,c3,06,0a,2b,06,01,04,01,e9,10,05,02,03,d1
UZI-pas 4	3b,dc,18,ff,81,91,fe,1f,c3,06,0a,2b,06,01,04,01,e9,10,05,02,04,d6
UZI-pas 5	3b,dc,18,ff,81,91,fe,1f,c3,06,0a,2b,06,01,04,01,e9,10,05,02,05,d7
ZORG-ID Smartcard	3b,dc,18,ff,81,91,fe,1f,c3,06,0a,2b,06,01,04,01,e9,10,05,06,01,d7

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8 Supported Smart Card Readers

SafeSign IC Minidriver version 4.4 provides support for PC/SC v2.0 Class 1 readers.

In principle, SafeSign IC supports PC/SC v1.0 compliant smart card readers that supply a current of at least 60mA.

AET Europe recommends that customers make a careful selection of the smart card reader to use, as there are many smart card readers on the market, with such restrictions as 'buggy' PC/SC drivers (especially older smart card reader models), insufficient power supply for cryptographic cards (which require a minimum of 60mA) and/or faulty T=0 or T=1 protocol implementation. These reader problems are beyond the control of smart cards and SafeSign IC.

The following table lists the specific readers that have been tested with SafeSign IC Minidriver version 4.4:

Smart Card Reader Manufacturer and Model	Class
HID® OMNIKEY® 3121 USB Smart Card Reader Revision D/2019	1

- Note that smart card readers that have been tested or have been found working at any given time with previous versions of the SafeSign IC Minidriver, may not (still) work or be supported in any or all versions of SafeSign IC Minidriver version 4.4.

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8.1 Extended APDU

In order to be able to generate RSA 4096-bits (and 3072-bits) keys on a JCOP 4 QSCD card, the smart card reader should support extended APDUs.

The ISO 7816-4:2013 specification defines an extended APDU as any APDU whose payload data, response data or expected data length exceeds the 256 byte limit.

The following readers have been tested to function with RSA 4096-bits keys and extended APDUs:

- HID OMNIKEY 3121 USB (Part No. R31210320-01, revision B/2016 and revision D/2019)
- Neowave LinkeoA-Y
- Neowave Winkeo-A SIM
- ACS ACR38 (P/N ACR38U-N1)
- ACS ACR40T (Standard) SIM-sized smart card reader
- Gemalto/Thales IDBridge CT30
- Gemalto IDBridge CT40 smart card reader
- Gemalto GemPC Twin
- Thales IDBridge K30 USB secure token

These card readers have been tested using the OS CCID driver, i.e. the native CCID driver on Windows.

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Depending on the Operating System, the reader name may be different. This explains the different names in the whitelists in the registry:

HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\A.E.T. Europe B.V.\SafeSign\2.0\Readers

HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\A.E.T. Europe B.V.\SafeSign\2.0\Readers.rocm

The reason for two whitelists in the registry for readers supporting extended APDUs lies in the fact that SafeSign IC Minidriver for Windows version 4.4 includes both the read-only and the read/write Minidriver (see section 3.8). When the read-only Minidriver is installed or both the read-only and read/write Minidriver are installed, both whitelists will be available.

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9 Supported Applications

SafeSign IC Minidriver version 4.4 has been tested in accordance with AET Europe's Quality Assurance procedures and the SafeSign IC Minidriver test plan. This includes testing of a number of defined and representative applications to verify the correct functioning of the SafeSign IC components and Libraries.

The following applications have been tested with SafeSign IC Minidriver version 4.4.0.0 at the time of release:

Application	Version	Purpose
Token Administration Utility	3.8.51.3	PKCS #11 token management functions
Mozilla Firefox	143.0.1	Authentication to a secure web site
Microsoft Edge	140.0.3485.81	Authentication to a secure web site
Google Chrome	140.0.7339.186	Authentication to a secure web site
Microsoft Outlook	2021	Signing and decrypting e-mail messages
Mozilla Thunderbird	143.0	Signing and decrypting e-mail messages
Adobe Reader	25.001.20693	Digitally signing a document
Microsoft Word	2021	Digitally signing a document
LibreOffice	25.8.1	Digitally signing a document
Windows Smart Card Logon	-	Log on to a local Windows client system
Terminal Server Logon	-	Log on to a Windows Terminal Server

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- Note that PKCS #11 applications need the PKCS #11 Library to be loaded/installed as a security module. The SafeSign IC PKCS #11 Library (called 'aetpkss1.dll') can be found in the system directory.
- Note that (Microsoft) applications normally do not require any configuration, i.e. you do not need to select or install the SafeSign IC card Minidriver.
- Note that for smart card logon and terminal server logon, you need to have the read-only Minidriver installed.

9.1 Token Administration Utility

With the SafeSign IC Token Administration Utility, you can perform (local) smart card related operations, such as changing the PIN for your smart card or token.

The features available in the Token Administration Utility can be modified in the Windows registry. The features to be enabled (1) or disabled (0) are located in: HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\A.E.T. Europe B.V.\SafeSign\2.0\Actions.

Refer to the Administrator's Guide for more details.

9.2 Mozilla Firefox

With SafeSign IC Minidriver installed, you can perform secure web authentication with a SafeSign IC Token.

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9.3 Mozilla Thunderbird

With the SafeSign PKCS #11 Library installed as a security module in Thunderbird, you can send and receive signed and/or encrypted messages with a SafeSign IC token.

To verify whether the SafeSign PKCS #11 Library is installed as a security module in Thunderbird, go to Preferences → Advanced → Certificates (tab) → Security Devices (button).

9.4 Microsoft Edge

With SafeSign IC Minidriver installed, you can perform secure web authentication in Microsoft Edge.

9.5 Google Chrome

With SafeSign IC Minidriver installed, you can perform secure web authentication in Google Chrome.

9.6 Microsoft Outlook

With SafeSign IC Minidriver installed, you can send and receive signed and/or encrypted messages with a SafeSign IC token.

9.7 Adobe Reader DC

With SafeSign IC Minidriver installed, you can sign documents with a SafeSign IC token.

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9.8 Microsoft Word

With SafeSign IC Minidriver installed, you can sign documents with a SafeSign IC token.

9.9 LibreOffice

With SafeSign IC Minidriver installed, you can sign documents with a SafeSign IC token.

9.10 Windows Smart Card Logon

With SafeSign IC read-only Minidriver installed, you can use your SafeSign IC token to log on to a local Windows client machine. This client should be part of a Windows Server domain.

9.11 Terminal Server Logon

With SafeSign IC read-only Minidriver installed, you can use your SafeSign IC token to log on to a remote Windows Terminal Server.

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10 Supported Languages

The following languages are supported in SafeSign IC Minidriver version 4.4 (Token Administration Utility):

- Basque (Basque);
- Catalan (Catalan);
- Chinese (Simplified, China);
- Chinese (Traditional, Hong Kong SAR; Traditional, Taiwan);
- Croatian (Croatia);
- Czech (Czechia);
- Dutch (Netherlands);
- English (United States);
- Finnish (Finland);
- French (France);
- German (Germany);
- Hungarian (Hungary);
- Italian (Italy);
- Italian (Switzerland);
- Japanese (Japan);
- Korean (Korea);
- Lithuanian (Lithuania);
- Portuguese (Portugal);
- Portuguese (Brazil);
- Russian (Russia);
- Serbian (Cyrillic, Serbia)
- Serbian (Latin, Serbia);
- Spanish (Spain);
- Thai (Thailand);
- Turkish (Turkey);
- Ukrainian (Ukraine).

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10.1 Installation language files and codes

When installing the SafeSign IC Minidriver .msi file, you may apply a transform for the installation language (as described in section 3.4).

For example, to install SafeSign IC Minidriver version 4.4 in Portuguese (Brazil):

msiexec /I "SafeSign IC MiniDriver 4.4.0.0-AET.000 64-bits.msi" TRANSFORMS=pt-PT.mst

- Note that .msi does not support all languages, hence the SafeSign IC Installer is not available in the following languages: Italian (Swiss), Lithuanian and Ukrainian.

The table below lists the Windows language code identifiers and corresponding transform files:

Language	File
Catalan	ca-ES.mst
Chinese (Simplified characters)	zh-CN.mst
Chinese (Traditional characters)	zh-TW.mst
Croatian	hr-HR.mst
Czech	cs-CZ.mst
Dutch	nl-NL.mst
Finnish	fi-FI.mst
French (France)	fr-FR.mst
German	de-DE.mst
Hungarian	hu-HU.mst
Italian	it-IT.mst
Japanese	ja-JA.mst

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Korean	ko-KO.mst
Portuguese (Portugal)	pt-PT.mst
Portuguese (Brazil)	pt-PT.mst
Russian	ru-RU.mst
Serbian (Latin)	sr-latn-cs.mst
Serbian (Cyrillic)	sr-cyrl-cs.mst
Spanish	es-ES.mst
Thai	th-TH.mst
Turkish	tr-TR.mst

- Note that during installation, the Component Setup windows will only include localisation of the Minidriver components in Dutch, German, Portuguese, Brazilian Portuguese, Serbian Latin and Serbian Cyrillic.

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