

SmartSign Anywhere

secure middleware

SmartSign Anywhere connects smart cards to PKI capable applications via standard APIs. It makes applications able to use cryptographic tokens transparently, regardless of the type of the token. The middleware can be used with a variety of Secure Signature-Creation Devices in both trusted and untrusted environments and it highly customizable for easy integration of new products.

Smart Sign Anywhere **Card Manager utility** is carefully designed to provide reliable and convenient token management functions through easy to use and ergonomic GUI.



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Features

- **SSCD Usage in Trusted and Un-trusted environment**
SmartSign Anywhere middleware can be used in both trusted and un-trusted environment, depending on the user's needs. Secure Messaging based on symmetric or asymmetric device authentication are supported.
- **Support of different type of PKI tokens and smart card readers -**
with the help of Card Abstraction Layer and Reader Abstraction Layer it is possible to involve new smart card and/or smart card reader products in the system.
TeleTrust and most common proprietary PINPAD readers are supported.
- **PlugIn architecture - is implemented in order to support**
3rd party software modules for the management of proprietary on-card data from the Card Manager.
- **Industry standard token management modules -**
PKCS#11, Microsoft CSP, Microsoft Minidriver based on PKCS#15 file structure.
- **Customized card profiles - based on specific customer requirements.**
E.g. different kind and number of security objects
(i.e. keys, Transport PIN, Signature PIN).
- **Operating system supported - MS Windows 2000+ (32/64), MacOS, Linux**

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SmartSign PKCS#11

PKCS#11 developed by RSA Laboratories is the industry standard platform independent API to cryptographic tokens.

SmartSign implementation of the PKCS#11 library has Smart Card and Smart Card Reader Abstraction layers in order to support different type of tokens and smart card readers.

SmartSign Minidriver

SmartSign Minidriver is a common interface to Microsoft Smart Card Base Cryptographic Provider (CSP) or Crypto Next Generation (CNG) software modules.

SmartSign CSP

SmartSign CSP provides integration between Microsoft Crypto API compliant applications with SmartSign Anywhere supported cryptographic tokens with the help of SmartSign PKCS#11.

SmartSign Anywhere Modules

SmartSign Anywhere consists of the following main components to integrate cryptographic hardware tokens into PKI applications.

SmartSign PAM

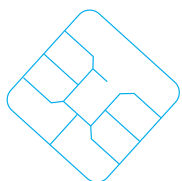
SmartSign Pluggable Authentication Module is a security component to be integrated into (Qualified) Signature Creation Applications (SCA) if Secure Message is needed between the SCA and SSCD for integrity and confidentiality. Helper HSM is supported optionally.

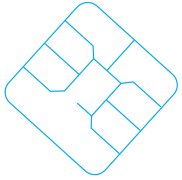
Card Manager

SmartSign Card Manager utility provides various management functions for the card holder of his/her security objects stored on the cryptographic token such as: initialization/ personalization, change/ unblock PIN/PUK, import/ view/delete digital IDs, verify certificate validity, etc.

Certificate registration utility

SmartSign certification registration utility provides automatic registration and de-registration of X.509 certificates stored on cryptographic tokens on token insertion and removal. It is typically convenient in multi-user environments.





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Native smart card platforms

- G&D StarCOS 2.3
- G&D StarCOS 2.4
- G&D StarCOS 2.5 DI
- G&D StarCOS 3.0
- G&D StarCOS 3.2
- SIEMENS CardOS 4.3B

Supported cryptographic tokens

Java Card platforms

- G&D SmartCafe Expert 2.0
- G&D SmartCafe FIPS 64
- G&D SmartCafe 3.0
- Gemalto GemSafe 2.0
- Oberthur ID-One Classic v7.0
- NXP JCOP 2.4.1 R2/R3 with ID&Trust IDentity applet
- NXP JCOP 2.4.2 R2/R3 with ID&Trust IDentity applet