

smart security interface

DORIS^{CSP}
universal

ECC-elliptic curve cryptography

100% PKCS#11



smart security interface[®] for Singapore's e-citizen



Today's IT infrastructure is a complicated mix of different hardware platforms, operating systems, applications, and back-end management systems. All of these components can utilize end point security that must interact in this environment. The challenge is making all these components work together thus the need for interoperability.

charismathics solves this business need with our Smart Security Interface middleware. charismathics CSSI[®] makes it easy to integrate new identification solutions into existing infrastructures.

Specifically for DORIS compliant tokens this added value brings:

- a multitude of solutions that can be used with the same token
- a solution supporting both Singapore ID and standard ID applications
- ECDSA support

charismathics core product, the CSSI middleware, covers a great range of the complex requirements in the ID market. It enhances the Singapore ID system by offering a universal solution meeting all MHA's parameters.

Overview:

- platform, vendor and application independence
- one software for all standard DORIS compliant smart cards and USB sticks
- supplier-independent and card-issuer-independent smart card support
- quick integration with software and customized file structures

Benefits

- supplier-independent and card-issuer-independent smart card support
- multiple smart card usage on a single system
- cross-platform life cycle management of tokens and digital identities
- support of all current 32-bit and 64-bit Win OS systems, 32-bit and 64-bit Linux distributions, Mac Os X, Sun Solaris and Sun Ray
- integration into existing PKI environments

3D Independence

charismathics smart security interface is the first product available that ensures complete independence of token hardware, token profiles and related software applications, regardless of the client OS in use. The product comes as a complete PKI client to simply integrate into an existing PKI environment. Our large number of supported smart card platforms offers flexibility for enterprise customers to freely choose their end point security device thus cutting cost. We even have the functionality to allow multiple systems to co-exist on the same device. The interface follows all common standards for integration of applications requiring strong identification.

Product Features

- one software only for all standard PKI smart cards or USB sticks
- multi smart card chip platform support: JCOP, CardOS, TCOS, StarCOS, GemXpresso, Cosmo ID and others
- multi interface standard support: PKCS#11, MS-CAPI, tokenD, CNG/mini driver, CTAPl
- multi client OS platform support for Windows up to 7 64-bits, Linux Kernel 2.6 distributions, Mac OS X up to Snow Leopard 64-bits, Sun Solaris
- optional multi card profile support for PKCS#15, SSID, SigG, FineID, CNS, CAC, IAS, PIV, ActivIdentity: flexible extension and modification or completely new integration
- full integration of CSP and PKCS#11 command set
- support of mobile phones to replace smart cards, smart card readers and USB sticks for Windows, Apple and BlackBerry
- secure PIN entry
- support for pre-boot environments: Check Point, McAfee, PGP, Secude and Sophos
- extension tool to manually integrate new tokens into the system
- adoptable Security Token Configurator
- optional mass production version

Product Overview

	CSSI 4.8.1 Windows	CSSI 4.8 TPM connector	CSSI 4.8.1 Mac OS X	CSSI 4.8 Linux	CSSI 4.8 Sun Solaris
available	now	now	now	now	now
support of mobile devices	yes	no	yes	no	no
supported smart card operating systems	List of supported smart cards*)	TPM IFX/BRD/INTEL/ATMEL/ST	List of supported smart cards*)	List of supported smart cards*)	List of supported smart cards*)
key generation	on-/off-board	on-/off-board	on-/off-board	on-/off-board	on-/off-board
pre-boot systems	Check Point, McAfee, PGP, Secude, Sophos	Check Point, McAfee, PGP, Secude, Sophos	Check Point, PGP	no	no
profile diversity	yes	yes	yes	yes	yes
PKCS#15	yes	yes	yes	yes	yes
biometrical interface	yes (MOC)	yes	no	no	no
RSA key length	up to 2048 bit	up to 2048 bit	up to 2048 bit	up to 2048 bit	up to 2048 bit
ECDSA key length	up to 384 bit (optional)	up to 384 bit (optional)	up to 256 bit (optional)	up to 256 bit (optional)	up to 256 bit (optional)
Security Token Configurator	optional	optional	optional	optional	optional
production version	yes	yes	yes	optional	optional
multi language	yes	yes	yes	no	no
branding	optional	optional	optional	optional	optional

*) please consult our application and system compliance list on our website www.charismathics.com

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