EVIDEN
Digital Identity

Technical Data Sheet

cryptovision SCinterface

Powerful and secure Smart Card Middleware

SCinterface connects a smart card or token to virtually any PKI-enabled application. It is a user-friendly and convenient universal middleware supporting dozens of smart cards, virtual smart cards, security tokens in different form factors and all major desktop operating systems.

Functions	• Higher security level with smart cards or tokens
	• Convenient lifecycle management for PINs, keys and certificates
	• PIN management includes:
	  • PIN and SO PIN change
	  • unlocking user PINs
	  • offline PIN reset
	  • PIN cache mode
	  • PACE-PIN and -PUK
	• Key & certificate management:
	  • Generation of key pairs and secret keys, secure storage of secret keys
	  • Import of keys and certificates (PKCS#12)
	  • Generation of certificate requests (PKCS#10)
	  • Registration of certificates in Microsoft Windows Certificate Store
	• Initialization & rollout functions:
	  • Generation of smart card profiles (PKCS#15, PKCS#15 with PACE, PKCS#15 biometric profile, third party profiles)
	  • Biometric Match-on-Card for Java Card with Neurotechnology™
	• Other token management functions:
	  • Configuration of default smart card container for MS-CAPI
	  • Creation, storage and administration of data on smart card
	  • Support of multiple keys per card with separate PINs

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Features	• Support of numerous smart cards and profiles, a wide range of applications, multiple platforms • Microsoft Virtual Smart Card (MS VSC) support, including initialization and personalization • Citrix, VMware, Fat- and Thin Client (IGEL, eLUX) support • Password Authenticated Connection Establishment (PACE) support • Support of eIDAS-compliant „Siegel“ tokens • Support of D-Trust siegel & signature card • Support of biometrics (biometric extention) • Personal Identity Verification (PIV) support (PIV extention) • Advanced signature profile support • Elliptic Curve Cryptography (ECC) support • Localization via language files • Encrypted session PIN via Minidriver and PKCS#15-PACE profile • Secure PIN pad support • Secure messaging support • Java Card GlobalPlatform support up to Version 2.2.2 with SCP03 • Support of ECC keys up to 521 Bit, platform dependent • Support of RSA keys up to 4096 Bit, platform dependent
Supplied modules	• PKCS#11 Module (v2.4) • Full-featured CSP • Microsoft certifiable Smart Card Minidriver for Crypto Next Generation Key Storage Providers (Specification v7.06) • Microsoft certifiable read-only Minidriver • Crypto Token Driver for macOS • SCinterface Utility for card management functions typically needed by users • SCinterface Manager for smart card initialization, personalization and management • Register Tool for certificate registration in Windows Certificate Store • Plug-ins for validity warning and root certificate registration
Supported standards	• PKCS#10 for certificate requests • PKCS#11 • PKCS#12 for key and certificate import • PKCS#15 • ISO/IEC 7816 • Microsoft CryptoAPI, CNG • macOS Crypto Token Driver • PC/SC • PACE (BSI TR-03110) • ISO/IEC 19794-2

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Supported smart cards and tokens	• AET: AET profile • CardOS: M4.01A / V4.2 / V4.2B / V4.2C / V4.3 / V4.3B / V4.4 / V5.0 / V5.3 / V5.4 / V5.5 / V6.0 • AustriaCard JCOP: 21 V2.2 / 21 V2.3.1 / 31 V2.2 / 31 V2.3.1 / 31/72 V2.3.1 / 31 / 72 V2.3.1 contactless / 41 V2.2.1 / 41 V2.3.1 / 41 V2.4 • D-Trust: D-Trust Card 3.1 / 3.4 / 4.1 / 4.4 (siegel card) / 5.1 / 5.4 • E.ON: Card V1 / V2 • ePasslet-Suite 1.1/1.2 on JCOP V2.4.1R3 and on JCOP V2.4.1R3 with PACE profile • ePasslet-Suite 2.0 on JCOP V2.4.2R3 with PACE profile • ePasslet Suite 2.1 on JCOP V2.4.2R3 with PACE profile • ePasslet Suite 3.0 on JCOP V3.0 and on G&D Sm@rtCafé Expert 7.0 and on Infineon SLJ52 (Dolphin) with PACE profile • ePasslet Suite 3.5 on JCOP V4.0 and on Infineon Secora ID X with PACE profile • Gemalto: TOP IM GX4, IDClassic 340 • G&D: Sm@rtCafé Expert 3.1 / 3.2 / 4.0 / 5.0 / 6.0 / 7.0 / 8.0 • G&D: STARCOS 3.0 / 3.1 / 3.2 / 3.4 / 3.4 (Swiss Health Card eGK) / 3.4 (Swiss Health Card VKplus G2) / 3.5 / 3.52 • G&D: StarSign CUT S Token (SCE 7.0) • HID: Crescendo C700 • HID: iCLASS Px G8H • Infineon: JCLX80 jTOP / SLJ52 (Dolphin/Trusted Logic), Secora • Infineon: SECORA ID S/X v2.01, IFX Applet Collection eSign V1.3 • MaskTech MTCOS Pro 2.5 with PACE (BSI TR-03110), EC and RSA, including „profile protection“ (ISO 7816/15) via PACE-CAN • Microsoft: Virtual Smart Card • NXP: JCOP V 2.1 / V2.2 / V2.2.1 IDptoken 200 / V2.3.1 / V2.4 / V2.4.1 / V2.4.2 R1+R2+R3 / V2.4.2 R3 SCP 03 / V3.0 / V4.0 / V4.5 • Siemens: CardOS M4.01a / V4.3B / V4.4 • SwissSign: suisseID (CardOS M4.3B / M4.4) • TCOS: Signature Card 1.0 / 2.0 • TCOS 4.0 • TU Dortmund: UniCard (SECCOS) • Volkswagen: PKI Card (CardOS M4.3B /4.4)
Add-ons	• SCinterface Cache: secure PIN caching • PKCS#11 module for iOS • SCinterface VSC: TPM-based and TPM-less virtual smart card extension • SCinterface RSC: remote smart card with centralized backend

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Extentions	• SCinterface biometric: match-on-card fingerprint authentication • SCinterface PIV: supports FIPS201-2 PIV NIST standard • SCInterface eID: for electronic identity documents
Supported readers	All PCSC 2.0 compliant readers (macOS, Unix/Linux needs „pcsclite“), recommended: • Identiv CLOUD 2700 F (not for macOS) • Identiv CLOUD 4700 F • Cherry SmartTerminal ST-2000 (Class2) • REINER SCT cyberJack® wave • REINER SCT cyberJack® one • REINER SCT cyberJack® RFID standard • REINER SCT cyberJack® RFID komfort Mobile Readers: • Identiv @MAXX ID-1 • Identiv SCR3500 • Identiv SCL3711
Supported readers with fingerprint sensors	• ACS AET52 / AET63 / AET65 • Omnikey 7121 Biometric • Futronic FS 82 • All finger print readers supported by Neurotechnology • All finger print readers supported by id3 Technologies
Supported biometrics	Biometric Match-on-Card for Java Card with Neurotechnology Biometric Match-on-Card for Java Card with id3 Technologies
Cache configuration options	• via KeyUsage • via time limit • via process (white/black listing) Options can be combined for highly selective configuration
Supported platforms	Microsoft: • Windows 10, 11 • Windows Server 2016, 2019, 2022 Linux: • RHEL 8, 9 • Ubuntu 24.04 • SLED/SLES 15 macOS: • Ventura (13.7.2) • Sonoma (14.7.2) • Sequoia (15)

Supported applications	• Compatible with several Smart Card Management Sytems (e.g. Versasec, Intercede, IDnomic, OpenTrust CMS, Noreg, Nexus Prime) • Smart card login to Linux, macOS, Microsoft Windows, Micro Focus eDirectory, IBM Notes • Single Sign-on with NetIQ SecureLogin, ActivIdentity Secure Login, IBM Security Access Manager for Enterprise Single SignOn, and Control Sphere • TLS authentication with smart card (Internet Explorer, Edge, Chrome, Firefox, Safari, etc.) • Microsoft Terminal Services, Citrix, XenDesktop and XenApp • SAP Secure Login Client • Digital signature and encryption via smart card for e-mails (cryptovision's Green-Shield, Mozilla Thunderbird, Microsoft Outlook, IBM Notes, Secude Secure Mail) • Kobil mIDentity • Qualified signatures with SuisseID, SwissSigner, all D-TRUST signature and siegel cards • VPN (Checkpoint, Windows, Cisco, NCP, OpenVPN) • Support of PKIs (CAmelot, PKIntegrated, RSA, Keon® PKI, VeriSign® PKI, GlobalSign PKI, Microsoft® PKI, Nexus) • Smart card login for disk encryption with Pre-Boot Authentication (Cryptware Secure Disk, CPSD, etc) • Microsoft Office, Libre Office, Apache OpenOffice, NeoOffice • Adobe Acrobat, Adobe Reader • Encrypted and signed data according to S/MIME, PKCS#7, XML Encryption • XML Digital Signature, and other formats
System requirements	• Supported platform • Supported card reader with installed driver • Free USB or microSD slot for card reader • Supported security token or MS VSC on TPM 2.0 • Additional application-specific requirements may occur

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