

Product brief

ePasslet Suite by cryptovision GmbH

On SECORA™ ID X Java Card™ platform

The ePasslet Suite by cryptovision GmbH on SECORA™ ID X is a flexible and efficient Java Card™ solution. It is a very user-friendly Java Card™ framework that supports a complete set of applications for implementing electronic ID cards, travel documents, driver's licenses and other similar electronic documents. It complies with various international standards. It relies on field-proven, hardware-based security technology from Infineon, which offers optimized transaction performance especially for electronic government documents.

The ePasslet Suite by cryptovision GmbH runs on the SECORA™ ID X Java Card™ platform based on Infineon's SLC52 security chip featuring Integrity Guard security technology.

SECORA™ ID X is a dynamic Java Card™ 3.0.5 platform, which offers optimized APIs for electronic document use cases.

The SECORA™ ID X platform supports dual-interface, contactless and contact-based communication interfaces. It is compliant with both ISO/IEC 7816 and ISO/IEC 14443 Type A/B. The dual and contactless interfaces support the latest ISO/IEC 14443 VHBR (Very High Bit Rate) standard, which can achieve a data transmission rate of up to 6.8 megabits per second. In addition, this platform enables post-issuance.

The ePasslet Suite on SECORA™ ID X provides applets for various eID document applications, including electronic passports, eIDAS-compliant ID and signature cards, international electronic driver's licenses, electronic health cards (eHIC), custom national eID cards and more. With this ePasslet Suite, several applications with common resources can be realized on the same card. The document's functional scope can be easily extended from the ePasslet Suite core, even by loading additional code onto cards that have already been issued.

Applet key features

Three editions to choose from

- Edition 1
- ICAO eMRTD with BAC and PACE
- ISO 7816 file system
- ISO driving license with BAP, BAC and PACE
- > Edition 2 with the additional features
- ICAO eMRTD with EAC v1 (including BAC and PACE)
- ISO driving license with EAC v1 or EAP (including BAP/BAC/PACE)
- ePKI/secure signature creation device
- Vehicle registration
- Health insurance card
- > Edition 3 with the additional features
 - German eID card with EAC v2, restricted identification and auxiliary functions
- EU residence permit
- European citizen card (identification, authentication, signature)
- eIDAS token functionality
- Custom eID application

Applet certification

- > ePasslet Suite by cryptovision GmbH on SECORA™ ID X targets CC EAL 5+
 - BSI-CC-PP-0055
 - BSI-CC-PP-0056
 - BSI-CC-PP-0059
 - BSI-CC-PP-0075

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This ePasslet Suite enables the complete implementation of an electronic Machine Readable Travel Document (eMRTD) according to International Civil Aviation Organization (ICAO) specifications. It supports the security protocols Basic Access Control (BAC), Password Authenticated Connection Establishment (PACE) and Extended Access Control (EAC).

In addition, the ePasslet Suite on SECORA™ ID X can be freely customized through various configuration options. So it can evolve to support new use cases and applications while retaining Common Criteria (CC) certification. It thus enables multiplication cards and documents.

The ePasslet Suite on SECORA™ ID X is available in three editions, offering cost-efficient configurations for standard as well as highend and customized ID document solutions.

Plattform key features

Platform compliance

- > Java Card 3.0.5, Classic
- > Global Platform® 2.3.1
 - GP ID Configuration v1.0
 - GP Mapping Guidelines v1.0
 - SCP02, SCP03

Cryptography

- > RSA up to 4096 bits
- > Elliptic curves up to 521 bits
- **>** TDES
- > AES up to 256 bits
- > SHA1, SHA2 up to 512 bits
- > Accelerated by crypto coprocessors

Plattform key features

Communication interfaces

-) Dual interface
- > ISO/IEC 7816-3, T=0, T=1
- > ISO/IEC 14443 Type A/B up to 848 kbps (extended length APDU up to 32 kByte)
- > ISO/IEC 14443 VHBR up to 6.8 Mbps

Supported international standards

- > ICAO Doc 9303 7th edition
- > BSI TR-03110 -1, -3, -4 V2.21
- > ISO/IEC 18013 -2, -3, -4, latest versions
- > ISO/IEC 7816-15, PKCS #15

Certification

- > SLC52G: CC EAL 6+, EMVCo
- > SECORA™ ID platform: CC EAL 6+, EMVCo

cv cryptovision GmbH

cryptovision is an expert for highly efficient secure encryption techniques. Based in Gelsenkirchen, Germany, the company offers innovative cryptography and electronic identity solutions.

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