

ACOS-J ID

Austria Card provides ACOS-J to offer a range of Java Card™ products. Our solution is based on independent, industry-wide specifications, written by Sun Microsystems, the GlobalPlatform consortium, the International Organization for Standards (ISO), EMVCo and others.

The open nature of ACOS-J enables the card issuer to load applications from different vendors onto the card, all written according to the same set of specifications: Sun Microsystems Java Card 2.2.2 specification and GlobalPlatform Card Specification 2.1.1 provide a powerful basis used industry-wide for the design of smart card applications. Cards built according to these standards are interchangeable; ACOS-J can replace almost any Java Card in existing infrastructures.

By leveraging proven standards such as ISO/IEC 7816, Java Card 2.2.2 or GlobalPlatform 2.1.1, the card will be interoperable with a wide range of systems and tools both on the market and already in operational use. This allows the seamless integration of ACOS-J into existing card infrastructures, while proprietary cards would implicate heavy investment costs.

For new systems, the choice of standardised tools and systems is a long-term investment; they can easily be used for future generations of ACOS-J implementations.

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Multi-Source

Thanks to the open architecture of the Java operating system concept, cards are available from several vendors. Java applets can be easily loaded and work on the entire Java Card range (appropriate hardware resources required).

Multi-Application

- Up to 127 applications on one card (depending on EEPROM-size)
- Post-issuance loading of applications
- Wide range of software producers for applet development
- Strict segregation of applications

Multi-Compatibility

- Compatible to relevant standards such as ISO 7816, ISO 14443
- Compatible to Sun Microsystems Java Card 2.2.2 specification
- Compatible to GlobalPlatform Card Specification 2.1.1

Multi-Types

- EEPROM sizes according to your needs
- Transport protocols available as needed
- Cryptography and PKI on most types

ACOS-J Contact Types

Product Type	ACOS-J C-10/18	ACOS-J C-21/18	ACOS-J C-21/40 ACOS-J C-21/80
EEPROM Size range	18 Kbytes	18 Kbytes	40 – 80 Kbytes
Platform	Java Card™	Java Card™	Java Card™
ISO/IEC 7816 T=0, T=1	yes	yes	yes
ISO/IEC 14443 Part 1-4	no	no	no
USB interface	no	no	no
Encryption	TDES	TDES	TDES, AES
PKI	no	RSA, ECC	RSA, ECC
HASH	no	SHA1, MD5	SHA1, MD5
Java Card™ Version	2.2.1	2.2.1	2.2.2
GP-Version	2.1.1	2.1.1	2.1.1
Applet Loading	enabled	enabled	enabled

ACOS-J Dual Interface and Pure Contactless Types

Product Type	ACOS-JS DI-30/12 ACOS-JS CL-30/12	ACOS-J DI-31/40 ACOS-J DI-31/80 ACOS-J CL-31/40 ACOS-J CL-31/80	ACOS-J DI-41/72
EEPROM Size range	12 Kbytes	40 – 80 Kbytes	72 Kbytes
Platform	Java Card™	Java Card™	Java Card™
ISO/IEC 7816 T=0, T=1	yes (if DI)	yes (if DI)	yes
ISO/IEC 14443 Part 1-4	yes	yes	yes
USB interface	no	no	yes
Encryption	TDES	TDES, AES	TDES, AES
PKI	RSA, ECC	RSA, ECC	RSA, ECC
HASH	SHA1, MD5	SHA1, MD5	SHA1, MD5
Java Card™ Version	2.2.1	2.2.2	2.2.1
GP-Version	2.1.1	2.1.1	2.1.1
Applet Loading	disabled	enabled	enabled
MIFARE™ emulation	optional	optional	optional

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MIFARE™ is a trademark of NXP Semiconductors, Netherlands

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