

Outline

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4. Product Application





Product Overview



Advanced Card Systems Ltd.

Card & Reader Technologies

Product Overview

ACOSJ-G is an advanced cryptographic smart card solution that provides developers a secure application platform to unlock many possibilities and realize potential in payment, identification, and other value-added services.





Product Features



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What are the Key Features of ACOSJ-G?

Communication and Memory

- ISO 7816 Parts 1/2/3/4
- ISO 14443 Type A/B
- T=0/ T=1/ T=CL
- 40KB/ 95KB EEPROM Size

Compliances and Certifications

- Java Card 3.0.4 Classic
- Global Platform 2.2.1
- Common Criteria EAL5+ (Chip Level)
- EMVCo (Chip Level)

Cryptographic Capability

- DES/3DES
- AES – 128/192/256
- RSA – up to 2048
- ECC – up to 384
- SEED 128
- SHA – 1/2
- SCP02

Security Functions

- Mutual Authentication
- Secure Messaging
- Anti-tearing Protection



ACS Java Card Technology

The leading secure application platform

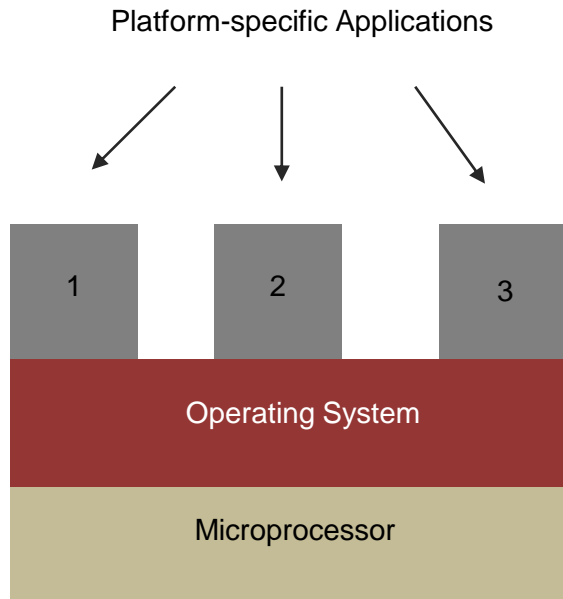


What is Java Card?

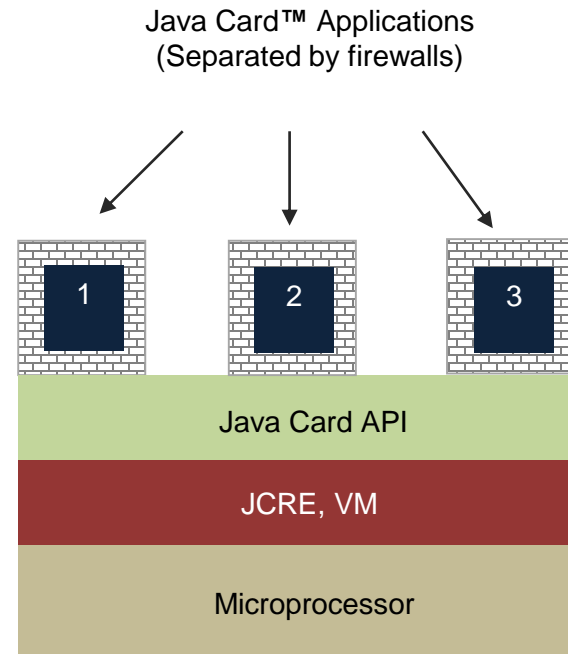
- Java™ technology for smart cards and secure elements
- Applications written in Java and can run on any Java Card products
- Unique security architecture for multi-application cards



Native vs Java



VS





Product Value



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Product Benefits of ACOSJ-G

Java Card	Benefits
Post Issuance	No re-issuance costs Longer device life
Development in Java	Faster deployment
Multiple field-of-use/form factors	Cost savings from application re-use
High-level security certifications	Modern secure platform
Standards Alignment	Future-proof investment
Openness	Broad developer community and content



Technical Specifications

Smart Card Features

Interface	Combi/ Contact/ Contactless
Communication Speed (kbps)	9.6 – 625 (Contact) 106 – 848 (Contactless)
EEPROM (KB)	95 (ACOSJ-G 2.04), 40 (ACOSJ-G 1.01)

Cryptographic Capabilities

ECC	112/128/160/192/224/256/384 bits
RSA	768 to 2048 bits
AES	128/192/256-bits
DES/3DES	56/112/168-bits
HASH	SHA1, SHA224, SHA256, SHA384, SHA512
SM2/SM3/SM4	✓
SEED	128 bits

Certifications/Compliance

Java Card Classic	v3.0.4
Global Platform	v2.2.1
Mapping Guidelines	v1.0.1
ISO 7816 – 1/2/3/4 T=0/T=1	T=0, T=1
ISO 14443 – Type A/B	Type A Only
CC EAL5+ (chip level)	✓



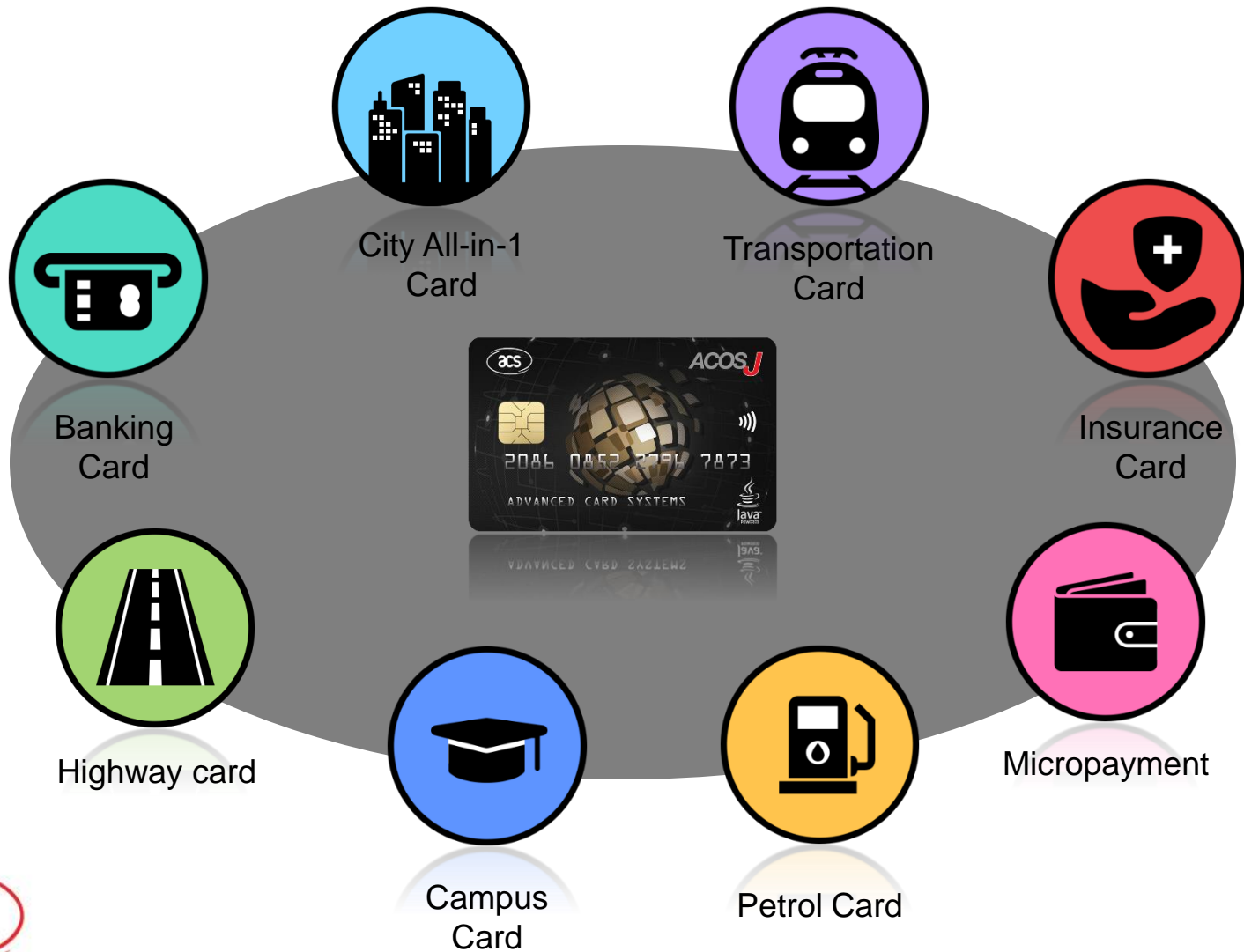
Product Application



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In what areas can we apply ACOSJ-G?





Thank You!



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