



GlobalPlatform Java Card OS

(FIPS 140-2 certified with Atmel smart card IC)

Solution Overview

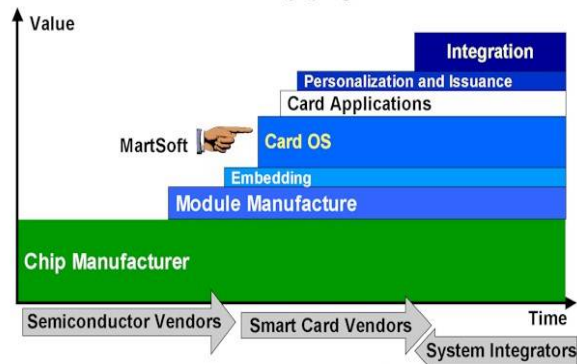
MartSoft, an independent smart card Java Card Operating System (COS) provider committed to high standard and excellence in its products. Nowadays, right business model, in-depth expertise and time to market are important in the competitive smart card industry. We believe no one should spend years in developing one's own COS and watch opportunities slip away. MartSoft provides expertise in supplying Java Card OS to applications; this will enable our customers to concentrate on their core values. For those who want to develop their own specialized COS, we also have the expertise to help.

MartSoft's Values are:

1. MartSoft's experienced R&D team has delivered Card Operating System for GSM and its success can be measured by shipment of 25+ million cards.
2. We have developed VOP (Visa Open Platform), certified by Visa.
3. We have developed COS for ID management systems and passed the stringent integration test with ActivCard Gold, the de facto middleware standard used for US government common access cards.
4. We port COS to USB dongles of all kinds.
5. We provide development tool and support for application development on our COS.

6. MartSoft bring our valuable partners to customers to form synergy for your business model when appropriate.

Smart Card Supply Chain



The new model encourages open platforms and will lower the total cost

MartSoft develops COS on the right Silicon chips that help improve our customers' time to market. MartSoft offers are standards-compliant and cost-effective:

- Global Platform-compliant Card OS
- Versatile Java Card application development tool (single-user or collaborative multi-user)
- Built on Flash / EEPROM Smart Card IC

Target Customers

- Smart Card system integrators and solution providers
- Smart Card vendors, issuers and smart card manufacturers.
- Security system integrators who need a secure token

Benefits to Customers



- Cost effectiveness: MartSoft aims at offering the most cost-effective Java Card to the industry for flexible volumes.
- Position neutral and standards compliant: We are dedicated to offering the leading Java Card OS that is compliant with industry standards.
- High performance and large memory allocated for applications.
- Fast production cycle: Adoption of the advanced flash-based chips avoids the long and costly production cycle required by traditional ROM-based chips.
- Efficient Card OS upgrades: The flash-based chip allows time to market Card OS upgrades during development stage.
- Capable of multiple on-card applications and issuers, compliant with GlobalPlatform specification.
- Post-issuance applet management supported
- Lower cost of application development and integration: By adopting Java Card standard, we bring Java's ease and portability to smart cards.

Architecture & Standards Compliance

- ISO7816 Part1-6 - Integrated Circuit(s) Cards
- FIPS (Federal Information Processing Standard) 140-2 certified
- EMV2000 Integrated Circuit Card Specification for Payment Systems v4.0
- Java Card 2.1.1 compliant, passed Sun Java Card 2.1.1 compatibility test
- Global Platform Card Specification v2.0.1

Security Measures

- Adoption of Visa-approved chips (Level-3), EAL4+
- Different protection modes for the whole card life cycle, including transportation and storage
- Counter measures against security attacks from chip to Java Card OS and the applications

Faster and Easier Integration & Development

- Well-defined programming language & environment - standard Java Card compliant.
- User-friendly, GUI-based development tools help system integrators and card vendors to easily and quickly integrate or develop applications.



- Collaborative Development Environment facilitates multiple remote developers to collaborate working on the same smart card from different remote locations through just an Internet browser.

Contact



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