

CardOS V5

Multifunctionality

The smart card operating system for the highest demands

Multifunctional smart card operating system for strict security requirements - CardOS V5 is compatible with the relevant international smart card standards and ensures a simple and efficient use in standardized environments and applications.

The versatility and outstanding characteristics of CardOS V5 enable the use of the operating system in a wide range of smart card projects.

CardOS V5 can be used in a multitude of applications, like ePassport, eID, citizen card, health insurance and health professional card, employee badge, driver licence, signature card, as well as loyalty card.

CardOS V5 is a future-proof and powerful family of CardOS versions, which combines high flexibility and highest security with the exceptional quality known for years.

CardOS® is a synonym for future-proof smart card operating systems which are in use in numerous projects and are enhanced continuously.



Our solution

CardOS V5 is the new CardOS platform, which is provided as contact based, as contactless version and as dual interface as well. CardOS V5 complies with the ISO standards ISO7816-3, -4, -8, and -9, and ISO14443-3, -4 respectively for the contactless interface.

The contact based version is available in wafer form, as DSO-8 chip, as module or as smart card in ID-1 and ID-000 format. For pure contactless applications we offer contactless modules and ID-1 cards. The dual interface version is available in wafer form, as module and as ID-1 smart card.

Flexibility

CardOS V5 is a multifunctional operating system platform, which is extendable by several packages to amend or adjust the operating system functionality. With a package development kit (PDK) this option will also be offered to our customers.

In addition the authentication framework is a flexible option to adapt authentication protocols to customers' needs without changing code.

CardOS V5 - The new CardOS platform

New applications

With the ICAO functionality (ICAO Doc 9303) CardOS V5 can be used for ePassports and with SAC (Supplementary Access Control) also upcoming requirements of this market can be fulfilled.

In addition EAC (Extended Access Control), PACE (Password Authenticated Connection Establishment) and RI (Restricted Identification) according to BSI technical requirements allow the usage in eID projects conforming to the European Citizen Card (ECC) specifications.

The protocols PA (Passive Authentication) und BAP (Basic Access Protocol) allow the application as electronic driver license.

CardOS V5 - the versatile native platform - deployable for diverse applications in all smart card markets.

Certified security

To fulfill the demanding security requirements, CardOS V5 will be certified according to Common Criteria EAL4+ in compliance with ICAO and SSCD protection profiles.

Our approach

CardOS V5 offers state-of-the-art crypto algorithms with AES, SHA-2, RSA and elliptic curves. The ISO compliant security architecture of CardOS V5 is implemented with access rules in expanded format. CardOS V5 is implemented on Infineon's SLE78 next generation security controller platform which is based on Infineon's innovative security technology "Integrity Guard". Depending on the memory needs of the application various EEPROM or flash sizes can be offered. The innovative flash technology demonstrates a new dimension of flexibility in the development and the whole logistic chain.

About Atos

Atos is an international information technology services company with annual 2010 pro forma revenues of EUR 8.6 billion and 74,000 employees in 42 countries at the end of September 2011. Serving a global client base, it delivers hi-tech transactional services, consulting and technology services, systems integration and managed services. With its deep technology expertise and industry knowledge, it works with clients across the following market sectors: Manufacturing, Retail, Services; Public, Health & Transport; Financial Services; Telecoms, Media & Technology; Energy & Utilities.

Atos is focused on business technology that powers progress and helps organizations to create their firm of the future. It is the Worldwide Information Technology Partner for the Olympic Games and is quoted on the Paris Eurolist Market. Atos operates under the brands Atos, Atos Consulting & Technology Services, Atos Worldline and Atos Worldgrid.



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