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[Java On Smart Cards Programming](#)

Programming smart cards with the Java Card platform Applets. Java Card products are based on the Java Card platform specifications developed by Sun Microsystems. Portability and security. The main features of the Java Card technology are portability and security. Portability... Differences in Java ...

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The Java Card Virtual Machine (JCVM) specification defines a subset of the Java programming language and a Java-compatible VM for smart cards, including binary data representations and file formats, and the JCVM instruction set.

Java Card™ technology provides a secure, vendor-independent, ubiquitous Java™ platform for smart cards and other memory constrained devices. It opens the smart card marketplace to third-party application development and enables programmers to develop smart card applications for a wide variety of vendors' products.

Java Card™ Technology for Smart Cards [Book]

Java Card refers to a software technology that allows Java-based applications to be run securely on smart cards and similar small memory footprint devices. Java Card is the tiniest of Java platforms targeted for embedded devices. Java Card gives the user the ability to program the devices and make them application specific. It is widely used in ATM cards. The first Java Card was introduced in 1996 by Schlumberger's card division which later merged with Gemplus to form Gemalto. Java Card products

Java Card - Wikipedia

If you plan on doing javacard programming, you should also get to know Global Platform. It's a smartcard standard, and in the context of javacard, you'll need to know about the GP spec when you need to load and manage javacard applets. This is required for working with JCOP cards. For the latest GP spec search for GlobalPlatform Card Specifications. You'll need to be very familiar with basic smartcard concepts, e.g. APDUs.

ide - Required Things to start Smartcard Programming Using ...

Programming cryptographic smart cards..., European 2011, Želiv 2.10.2011 www.buslab.org Cryptographic smart cards & Java Card & PKI tutorial Ji ří Kúr, Tobiáš Smolka, Petr Švenda Masaryk University, Czech Republic, Brno {xkur,xsmolka,svenda}@fi.muni.cz

Cryptographic smart cards & Java Card & PKI tutorial

The book is a technical guide to smart card specifications and programming paradigms starting from APDUs and ISO 7816 specifications The technologies related to smart cards The book describes the main technologies that use smart cards including: EMV, NFC, MIFARE SIM / GSM, PKCS # 11, JavaCard, Cryptography.

smart card programming

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Java Card (TM) Technology for Smart Cards: Architecture ...

Java card technology tries to leverage on Java language's "write once, run everywhere" nature and make the application development for smart cards more aligned with today's mainstream of software development. In particular, Java card technology relieves smart card programmers of having to work with low-level, manufacturer-specific API.

Programming Smart Cards with Java Card Technology

SCUBA is a Javabased framework for programming smart cardaware host applications. It spun off from theJMRTDproject and is used in several otherJava smart card projects atthe Digital Security groupat Radboud University. SCUBA enhances the Java Smart Card I/O API (JSR 268) withseveral features, most notably polling for card insertion and removalevents.

Project SCUBA

Now with modern Smart Card technology such as Java Card and Basic Card it is possible for everyone to create his or her own applications on a smart card.This book provides generic solutions for programming smart cards, enabling the creation of working applications and systems.Key features: *

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Presents a comprehensive introduction to the topic of smart cards, explaining component elements and ...

Smart Card Applications: Design models for using and ...

Java on Smart Cards: Programming and Security by Isabelle Attali, 9783540421672, available at Book Depository with free delivery worldwide.

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Java Card™ technology provides a secure, vendor-independent, ubiquitous Java™ platform for smart cards and other memory constrained devices. It opens the smart card marketplace to third-party application development and enables programmers to develop smart card applications for a wide variety of vendors' products.

Java Card? Technology for Smart Cards: Architecture and ...

In addition to existing applications of Java Card in smart metering, automotive, and wearables, dedicated IoT functionality in Java Card 3.1 unlocks a wealth of new use cases for IoT devices.

Java Card and IOT - Oracle

Java Card helps developers build, test, and deploy smart card-based applications quickly and efficiently with an object-oriented programming model and off-the-shelf development tools. For smart card issuers, it delivers a secure and interoperable platform that can be used to store and update multiple applications on a single end-user device.

Java Card - Technology - Thales

More and more projects require awareness of Java Card technology, usually for client security use cases. This session provides background on new and existing...

Intended for Java Card applet developers, platform implementers, and technical managers seeking an overall understanding of Java Card technology, this guide provides an introduction to the development of applications with Java Card technology based on Java Card version 2.1. Includes an introduction to the platform, an overview and discussion of the technology, a programming guide, and tips. Annotation copyrighted by Book News, Inc., Portland, OR

With Smart Card Programming the reader will have the expert guidance he need to work with smart cards. The book offers a comprehensive guide, to the technological aspects related to smart cards, providing an high level overview of the technological panorama and giving an in-depth technical coverage about the related architectures, programming paradigms and APIs. The first part of the book introduces the smart card technologies, the general concepts and a few case studies. It is addressed also to non-technical reader who wishes an high level overview on smart card world. The second part of the book is a technical guide to smart card specifications and programming paradigms. It dives into technical topics about smart card programming and applications development in C/C++, C#, Visual Basic and Java. Key features include: - Contact and Contactless Cards - ISO 7816 - NFC - JavaCard Framework - PC/SC - PKCS#11 - OpenCard Framework - Java - Smart Card I/O - GlobalPlatform - EMV

This book constitutes the thoroughly refereed post-proceedings of the First International Java Card Workshop held in Cannes, France, in September 2000. The 11 revised full papers presented were carefully reviewed and selected for inclusion in the book together with one invited paper. All current theoretical and application-oriented aspects of smart card security based on Java Card language programs are addressed.

A practical guide to the specification, design, and programming of smart card systems for working applications. More than 3 billion smartcards are produced every year. Generally defined as any pocket-sized card with embedded integrated circuits or chips, they have a huge number of applications including travel cards, chip and pin cards, pet tags, mobile phone SIMs and pallet trackers. Now with modern Smart Card technology such as Java Card and Basic Card it is possible for everyone to create his or her own applications on a smart card. This book provides generic solutions for programming smart

cards, enabling the creation of working applications and systems. Key features: Presents a comprehensive introduction to the topic of smart cards, explaining component elements and the smart card microcontrollers. Sets out information on operating systems with case studies of a range of applications including credit card security, mobile phones and transport payment cards. Gives detailed advice on the monitoring of smart card applications, recognizing potential attacks on security and improving system integrity. Provides modules and examples so that all types of systems can be built up from a small number of individual components. Offers guidelines on avoiding and overcoming design errors. Ideal for practising engineers and designers looking to implement smart cards in their business, it is also a valuable reference for postgraduate students taking courses on embedded system and smart card design.

In today's world, smart cards play an increasingly important role in everyday life. We encounter them as credit cards, loyalty cards, electronic purses, health cards, and as secure tokens for authentication or digital signature. Their small size and the compatibility of their form with the magnetic stripe card make them the ideal carriers of personal information such as secret keys, passwords, customization profiles, and medical emergency information. This book provides a guide for the rapid development of smart card applications using Java and the OpenCard Framework. It gives you the basic information you need about smart cards and how they work. It shows in detail how to develop applications that use smart cards by guiding you through examples step by step. A smart card provided along with the book will help you to quickly get some first hands-on experience. Das Buch bietet erstmals einen Leitfaden zur Entwicklung von Smartcard-Anwendungen mit Java (JDK ab Version 1.1.6) und OCF 1.1.1 auf dem Computer, sowie zur Entwicklung von Java Applets, die direkt auf einer Karte (Java Card) ausgeführt werden. Der erste Teil führt konzise in Grundlagen, Technologie und Anwendungsmöglichkeiten von Smartcard ein. Im zweiten Teil werden Ziel, Konzept, Architektur und Komponenten des OpenCard Framework detailliert beschrieben. Der dritte Teil demonstriert anhand einfacher Beispiele Aufbau und Design komplexer Anwendungen für den Karten- und den Host-Teil. Mit der beiliegenden Multi Function Card lassen sich die beschriebenen Beispiele leicht ausführen und weiterentwickeln.

Building on previous editions, this third edition of the Smart Card Handbook offers a completely updated overview of the state of the art in smart card technology. Everything you need to know about smart cards and their applications is covered! Fully revised, this handbook describes the advantages and disadvantages of smart cards when compared with other systems, such as optical cards and magnetic stripe cards and explains the basic technologies to the reader. This book also considers the actual status of appropriate European and international standards. Features include: New sections on: smart card applications (PKCS #15, USIM, Tachosmart). smart card terminals: M.U.S.C.L.E., OCF, MKT, PC/SC. contactless card data transmission with smart cards. Revised and updated chapters on: smart cards in the telecommunications industry (GSM, UMTS, (U)SIM application toolkit, decoding of the files of a GSM card). smart card security (new attacks, new protection methods against attacks). A detailed description of the physical and technical properties and the fundamental principles of information processing techniques. Explanations of the architecture of smart card operating systems, data transfer to and from the smart card, command set and implementation of the security mechanisms and the function of the smart card terminals. Current applications of the technology on mobile telephones, telephone cards, the electronic purse and credit cards. Discussions on future developments of smart cards: USB, MMU on microcontroller, system on card, flash memory and their usage. Practical guidance on the future applications of smart cards, including health insurance cards, e-ticketing, wireless security, digital signatures and advanced electronic payment methods. "The book is filled with information that students, enthusiasts, managers, experts, developers, researchers and programmers will find useful. The book is well structured and provides a good account of smart card state-of-the-art technology... There is a lot of useful information in this book and as a practicing engineer I found it fascinating, and extremely useful." Review of second edition in Measurement and Control. 'The standard has got a lot higher, if you work with smart cards then buy it! Highly recommended.' Review of second edition in Journal of the Association of C and C++ Programmers. Visit the Smart Card Handbook online at www.wiley.co.uk/commstech/

This book constitutes the thoroughly refereed post-proceedings of the First International Java Card Workshop held in Cannes, France, in September 2000. The 11 revised full papers presented were carefully reviewed and selected for inclusion in the book together with one invited paper. All current theoretical and application-oriented aspects of smart card security based on Java Card language programs are addressed.

This book constitutes the refereed proceedings of the Second International Conference on Research in Smart Cards, E-smart 2001, held in Cannes, France, in September 2001. The 20 revised full papers presented were carefully reviewed and selected from 38 submissions. Among the topics addressed are biometrics, cryptography and electronic signatures on smart card security, formal methods for smart card evaluation and certification, architectures for multi-applications and secure open platforms, and middleware for smart cards and novel applications of smart cards.

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