

Uwe Hansmann  
Martin S. Nicklous  
Thomas Schäck  
Frank Seliger

# Smart Card Application Development Using Java

*// Multi Function Smart Card included!*



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# Smart Card Application Development Using Java

**Marcel A. Müller**



## **Smart Card Application Development Using Java:**

Smart Card Application Development Using Java Uwe Hansmann, Martin S. Nicklous, Thomas Schäck, Achim Schneider, Frank Seliger, 2012-12-06 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 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 with the book will help you to quickly get some first hands on experience.

Smart Card Application Development Using Java Uwe Hansmann, Martin S. Nicklous, Thomas Schäck, Frank Seliger, 2012-04-04 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 konzipiert 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.

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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

**Development of a Hotel and Casino Smart Card Application Using Java Card Technology** Li Wen Lin,C. Walter,University of Manchester Institute of Science and Technology. Department of Computation,2001

*Smart Card. Research and Applications* Jean-Jacques Quisquater,Bruce Schneier,2006-12-30 Smart cards have been driven by the need for a secure portable computing platform Hence it is no surprise that security considerations dominated their research The CARDIS conferences were created to provide a forum for this research CARDIS 1998 is the third international conference on Smart Card Research and Advanced Applications held in Louvain la Neuve Belgium 14 16 Sept ber 1998 The rst CARDIS was held in Lille France in November 1994 and the second was held in Amsterdam The Netherlands in September 1996 The fourth CARDIS is scheduled to take place in Bristol UK in September 2000 <http://www.cardis.org> This volume contains the refereed papers presented at CARDIS 1998 These 35 papers were rst published in a pre proceedings and distributed to the tendees at the conference they have subsequently been revised and updated for this volume The papers discuss all aspects of smart card research Java cards elect nic commerce applications e ciency security including cryptographic al rithms cryptographic protocols and authentication and architecture Subm sions from Europe the U S Asia and Australia show that this is indeed an international area of research and one that is becoming more popular as pr tical demand for smart cards increase We wish to thank the Program Committee members who did an excellent job in reviewing papers and providing feedback to the authors

**Smart Cards, Tokens, Security and Applications** Keith Mayes,Konstantinos Markantonakis,2017-05-18 This book provides a broad overview of the many card systems and solutions that are in practical use today This new edition adds content on RFIDs embedded security attacks and countermeasures security evaluation javacards banking or payment cards identity cards and passports mobile systems security and security management A step by step approach educates the reader in card types production operating systems commercial applications new technologies security design attacks application development deployment and lifecycle management By the end of the book the reader should be able to play an educated role in a smart card related project even to programming a card application This book is designed as a textbook for graduate level students in computer science It is also as an invaluable post graduate level reference for professionals and researchers This volume offers insight into benefits and pitfalls of diverse industry government financial and logistics aspects while providing a sufficient level of technical detail to support technologists information security specialists engineers and researchers

*Smart Card Programming and Security* Isabelle Attali,2001-09-05 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

Smart Card Programming Ugo Chirico,2014-05-21 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

Smart Card Applications Wolfgang Rankl,2007-06-05 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

Smart Cards Timothy M. Jurgensen,Scott B. Guthery,2002 This book provides readers with an overview to the design of multiapplication smart card environments including the selection of a platform the creation of applications and the logistics of initial deployment

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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

**Database and Expert Systems Applications**, 2002 **Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society** IEEE Engineering in Medicine and Biology Society. Conference, 2003 **Proceedings of the USENIX Workshop on Smartcard Technology (Smartcard '99)**, 1999 **Proceedings of the 2nd International Conference on Information Systems and Engineering (ISE 2002), in conjunction with the 2002 Summer Computer Simulation Conference, San Diego, California, US Grant Hotel, July 14-18, 2002** Waleed W. Smari, 2002

**DOA'01** Gordon Blair, Douglas C. Schmidt, Zahir Tari, 2001 Fundamentals of distributed object systems and their use to solve problems in industrial applications are the focus of these papers from a September 2001 symposium Contributors include researchers who provide technical and theoretical solutions practitioners who show how distributed object systems are used to solve real world problems and users who are interested in understanding how distributed object technology can be exploited in their application domains Themes are support for mobility monitoring and management meta data services enterprise architectures workflow reflection and reconfiguration multimedia and fault tolerance Some subjects include transparent dissemination of adaptors in Jini a collaborative word processing system using a CORBA based workflow framework and developing mobile agent organizations Lacks a subject index Annotation c Book News Inc Portland OR booknews.com *Subject Guide to Books in Print*, 1991 *IBM Systems Journal* International Business Machines Corporation, 2001 **Smart Card** Scott B. Guthery, Timothy M. Jurgensen, 1998 Smart Card Developer's Kit is designed to provide the practical information you need to design and build applications that incorporate smart cards Using a combination of detailed exposition technical reference summaries and extended examples this book familiarizes you with the unique strengths and capabilities of this emerging computer technology Increase your security from a one factor security a password to a two factor security a smart card and its PIN Use the smart card as a portable place to carry your personal preference information and your identity establishing private signing key In marketing applications a smart card offers a much wider and more flexible set of customer benefits than a magnetic strip card or a paper record card A smart card can also carry secured information such as medical records licenses subscriptions and accreditations that must be guarded against

tampering     Java Card Technology for Smart Cards Zhiqun Chen,2000 Annotation This book is a guide to developing applications with Java Card technology It introduces you to the Java Card platform and features discussions of programming concepts It also provides a step by step Java Card applet development guide to get you up and running Specific topics covered include smart card basics Java Card virtual machine persistent and transient objects atomicity and transactions handling APDUs applet firewall and object sharing Java Card platform security a step by step applet development guide applet optimization guidelines and a comprehensive reference to Java Card APIs BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

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