

# Development of Java Smart Card Application (applet)

There are 4 steps comprise the Java Card applet development:

1. Specify the functions of the applet
    - E.g., security function requires the user to enter a PIN, card locks after three unsuccessful attempts to enter the PIN.
  2. Request and assign AIDs to both the applet and the package containing the applet class
  3. Design the class structure of the applet programs
  4. Define the interface between the applet and the terminal application
- Develop using the JavaCard development kit
    - See [http://java.sun.com/products/javacard/dev\\_kit.html](http://java.sun.com/products/javacard/dev_kit.html)

# Smart Card Application Development Using Java

**Wendy Atkins**



## **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, 2012-12-06 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 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. **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

**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

**Pervasive Computing** Uwe Hansmann, Lothar Merk, Martin S. Nicklous, Thomas Stober, 2003-06-06 This book describes a new class of computing devices which are becoming omnipresent in every day life They make information access and processing easily available for everyone from anywhere at any time Mobility wireless connectivity diversity and ease of use are the magic keywords of Pervasive and Ubiquitous Computing The book covers these front end devices as well as their operating systems and the back end infrastructure which integrate these pervasive components into a seamless IT world A strong emphasis is placed on the underlying technologies and standards applied when building up pervasive solutions These fundamental topics include commonly used terms such as XML WAP UMTS GPRS Bluetooth Jini transcoding and cryptography to mention just a few Voice Web Application Servers Portals Web Services and Synchronized and Device Management are new in the second edition Besides a comprehensive state of the art description of the Pervasive Computing technology itself this book gives an overview of today's real life applications and accompanying service offerings M Commerce e Business networked home travel and finance are exciting examples of applied Ubiquitous Computing

**Smart Card Research and Advanced Applications** Josep Domingo-Ferrer, David Chan, Anthony Watson, 2013-03-14 Smart cards or IC cards offer a huge potential for information processing purposes The portability and processing power of IC cards allow for highly secure conditional access and reliable distributed information processing IC cards that can perform highly sophisticated cryptographic computations are already available Their application in the financial services and telecom industries are well known But the potential of IC cards go well beyond that Their applicability in mainstream Information Technology and the Networked Economy is limited mainly by our imagination the information processing power that can be gained by using IC cards remains as yet mostly untapped and is not well understood Here lies a vast uncovered research area which we are only

beginning to assess and which will have a great impact on the eventual success of the technology The research challenges range from electrical engineering on the hardware side to tailor made cryptographic applications on the software side and their synergies This volume comprises the proceedings of the Fourth Working Conference on Smart Card Research and Advanced Applications CARDIS 2000 which was sponsored by the International Federation for Information Processing IFIP and held at the Hewlett Packard Labs in the United Kingdom in September 2000 CARDIS conferences are unique in that they bring together researchers who are active in all aspects of design of IC cards and related devices and environments thus stimulating synergy between different research communities from both academia and industry This volume presents the latest advances in smart card research and applications and will be essential reading for smart card developers smart card application developers and computer science researchers involved in computer architecture computer security and cryptography

**Java on Smart Cards: Programming and Security** Isabelle Attali, Thomas Jensen, 2003-06-29 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

*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

**Secure Smart Embedded Devices, Platforms and Applications** Konstantinos Markantonakis, Keith Mayes, 2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life Secure Smart Embedded Devices Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work Smart Cards Tokens Security and Applications from the same editors

**Ubiquitous Computing** Stefan Poslad, 2011-08-10 This book provides an introduction to the complex field of ubiquitous computing Ubiquitous Computing also commonly referred to as Pervasive Computing describes the ways in which current technological models based upon three base designs smart mobile wireless

service devices smart environments of embedded system devices and smart interaction between devices relate to and support a computing vision for a greater range of computer devices used in a greater range of human ICT and physical environments and activities The author details the rich potential of ubiquitous computing the challenges involved in making it a reality and the prerequisite technological infrastructure Additionally the book discusses the application and convergence of several current major and future computing trends

**Key Features** Provides an introduction to the complex field of ubiquitous computing Describes how current technology models based upon six different technology form factors which have varying degrees of mobility wireless connectivity and service volatility tabs pads boards dust skins and clay enable the vision of ubiquitous computing Describes and explores how the three core designs smart devices environments and interaction based upon current technology models can be applied to and can evolve to support a vision of ubiquitous computing and computing for the future Covers the principles of the following current technology models including mobile wireless networks service oriented computing human computer interaction artificial intelligence context awareness autonomous systems micro electromechanical systems sensors embedded controllers and robots Covers a range of interactions between two or more UbiCom devices between devices and people HCI between devices and the physical world Includes an accompanying website with PowerPoint slides problems and solutions exercises bibliography and further reading Graduate students in computer science electrical engineering and telecommunications courses will find this a fascinating and useful introduction to the subject It will also be of interest to ICT professionals software and network developers and others interested in future trends and models of computing and interaction over the next decades

Logics in Artificial Intelligence Manuel

Ojeda-Aciego,2000 This book constitutes the refereed proceedings of the European Workshop on Logics in Artificial Intelligence JELIA 2000 held in Malaga Spain in September October 2000 The 24 revised full papers presented together with three invited papers were carefully reviewed and selected out of 60 submissions The papers are organized in topical sections on knowledge representation reasoning about actions belief revision theorem proving argumentation agents decidability and complexity updates and preferences

**Critical Thoughts from a Government Mindset** Ali M. Al-Khouri,2013 The chapters in Critical Thoughts From A Government Mindset have been grouped into three categories strategic management e government development and practices and identity management In the first section the book covers Corporate Government Strategy Development and Customer Relationship Management

**Key Features** Is highly topical examines subjects that are of great current interest to governments and practitioners worldwide comprehensive detailed and thorough theoretical and practical analysis covers issues and sources rarely accessed on books on this topic The Author Dr Al Khouri is the Director General Under Secretary of the Emirates Identity Authority a federal government organisation established to rollout and manage the national identity management infrastructure program in the United Arab Emirates Readership Scholars practitioners business executives and government economic policy makers worldwide and especially those with an interest in

the Middle East Contents Strategic management Corporate government strategy development a case study Customer relationship management proposed framework from a government perspective E government E government strategies the case of UAE E government in Arab countries a six staged roadmap to develop the public sector E voting in UAE FNC elections a case study Identity management Identity and mobility in a digital world Data ownership who owns my data Triggering the smart card readers supply chain *Cyber Forensics Jr.*, Albert Marcella, Robert S. Greenfield, 2002-01-23 Given our increasing dependency on computing technology in daily business processes and the growing opportunity to use engineering technologies to engage in illegal unauthorized and unethical acts aimed at corporate infrastructure every organization is at risk *Cyber Forensics A Field Manual for Collecting Examining and Preserving Evidence o 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 September 1998 The first 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 first published in a pre proceedings and distributed to the attendees at the conference they have subsequently been revised and updated for this volume The papers discuss all aspects of smart card research Java cards electronic commerce applications efficiency security including cryptographic algorithms cryptographic protocols and authentication and architecture Submissions 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 practical 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 **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

**Audio-and Video-Based Biometric Person Authentication** Josef Kittler, Mark S. Nixon, 2003-08-03 The refereed proceedings of the 4th International Conference on Audio and Video Based Biometric Person Authentication AVBPA 2003 held in Guildford UK in June 2003 The 39 revised full plenary papers and 72 revised full poster papers were carefully reviewed and selected for presentation There are topical sections on face speech fingerprint image video processing and tracking general issues handwriting signature and palm gait and fusion *Secure Information Networks* Bart Preneel, 2013-03-14 This volume contains papers presented at the fourth working conference on Communications and Multimedia Security CMS 99 held in Leuven Belgium from September 20 21 1999 The Conference arranged jointly by Technical Committees 11 and 6 of the International Federation of Information Processing IFIP was organized by the

Department of Electrical Engineering of the Katholieke Universiteit Leuven The name Communications and Multimedia Security was used for the first time in 1995 when Reinhard Posch organized the first in this series of conferences in Graz Austria following up on the previously national Austrian IT Sicherheit conferences held in Klagenfurt 1993 and Vienna 1994 In 1996 CMS took place in Essen Germany in 1997 the conference moved to Athens Greece The Conference aims to provide an international forum for presentations and discussions on protocols and techniques for providing secure information networks The contributions in this volume review the state of the art in communications and multimedia security and discuss practical of topics experiences and new developments They cover a wide spectrum including network security web security protocols for entity authentication and key agreement protocols for mobile environments applied cryptology watermarking smart cards and legal aspects of digital signatures

**Information Security** George Davida, Masahiro Mambo, Eiji Okamoto, 1998-04-08 This book constitutes the strictly refereed post workshop proceedings of the First International Workshop on Information Security ISW 97 held in Tatsunokuchi Ishikawa Japan in September 1997 The volume presents six invited surveys together with 25 thoroughly revised full papers selected from 39 submissions Among the topics covered are public key cryptosystems cryptanalysis digital signatures hardware software implementation key management key sharing security management electronic commerce and quantum cryptology

The Smart Card Report Wendy Atkins, 2012-12-02 The definitive guide to the smart card industry Will help you to keep track of the major issues affecting the market Will enable you to identify new business opportunities Includes profiles of key players assesses market trends and drivers comprehensive technology review Completely revised and updated the 8th edition of The Smart Card Report examines the smart card market and major end use sectors identifying their needs for smart cards assessing growth prospects and highlighting market opportunities The study looks at the structure of the industry profiles key players assesses market trends and drivers discusses industry issues and investigates usage by geographical region and application area A comprehensive technology review is also included We have drawn on the expertise from our existing portfolio Card Technology Today newsletter and ID Smart Cards for Government Healthcare conference to bring you vital information analysis and forecasts that cannot be found anywhere else

**Multi-application Smart Cards** Mike Hendry, 2007-06-28 Multi application smart cards have yet to realise their enormous potential partly because few people understand the technology market and behavioural issues involved Here Mike Hendry sets out to fill this knowledge gap with a comprehensive and accessible guide Following a review of the state of the art in smart card technology the book describes the business requirements of each smart card using sector and the systems required to support multiple applications Implementation aspects including security are treated in detail and numerous international case studies cover identity telecoms banking and transportation applications Lessons are drawn from these studies to help deliver more successful projects in the future Invaluable for users and integrators specifying evaluating and integrating multi application systems the book will also be useful to terminal card and



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