

Smart Card

Isabelle Attali, Thomas Jensen

Smart Card Handbook Wolfgang Rankl, Wolfgang Effing, 2004-04-02 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/

Smart Card Security and Applications, Second Edition Mike Hendry, 2001 This extensively updated edition of the popular book offers a current overview of the ways smart cards address the computer security issues of today's varied applications. Brand-new discussions on multiapplication operating systems, computer networks, and the Internet are included to keep technical and business professionals abreast of the latest developments in this field.

Smart Card Applications Wolfgang Rankl, 2007-04-30 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.

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. For a PDF version of the report please call Sarah Proom on +44 (0) 1865 843181 for price details.

Smart Cards Henry Dreifus, J. Thomas Monk, 1998-01-07 A complete nuts-and-bolts guide to designing, building, and managing the smart card system that's right for your company Already a well-established medium of exchange in Europe, smart card technology has made major inroads in the North American market in the past few years. Visa and Mastercard are committed to replacing credit cards with them over the next five years, and Microsoft is racing to use them for e-commerce. Clearly, the time for asking Why? regarding smart cards has passed. The important question companies now should be asking themselves is How?: how to plan, how to develop, how to implement, and how to manage the smart card system that is right for our company? This book provides complete, unbiased answers to these and all your technical and business questions about smart card systems. Dreifus and Monk guide you step-by-step through the entire process of selecting, designing, building, and managing a smart card application tailored to your business. They supply numerous checklists to help guarantee that you make the correct technical decisions during each phase of the process. And they include real-world case studies illustrating successful smart card implementations in a variety of industries, including banking, manufacturing, entertainment, healthcare, and transportation. Crucial topics covered in detail include: * Smart card architectures and standards * Security and encryption * Smart card operating systems * Smart card application design and development * Development tools * Testing and certification *Smart Cards* arms you with everything you need to know to make informed decisions about the smart card system that's right for your company.

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 Handbook Wolfgang Rankl, Wolfgang Effing, 2010-11-04 The most comprehensive book on state-of-the-art smart card technology available Updated with new international standards and specifications, this essential fourth edition now covers all aspects of smart card in a completely revised structure. Its enlarged coverage now includes smart cards for passports and ID cards, health care cards, smart cards for public transport, and Java Card 3.0. New sub-chapters cover near field communication (NFC), single wire protocol (SWP), and multi megabyte smart cards (microcontroller with NAND-Flash). There are also extensive revisions to chapters on smart card production, the security of smart cards (including coverage of new attacks and protection methods), and contactless card data transmission (ISO/IEC

10536, ISO/IEC 14443, ISO/IEC 15693). This edition also features: additional views to the future development of smart cards, such as USB, MMU, SWP, HCI, Flash memory and their usage; new internet technologies for smart cards; smart card web server, HTTP-Protocol, TCP/IP, SSL/TSL; integration of the new flash-based microcontrollers for smart cards (until now the usual ROM-based microcontrollers), and; a completely revised glossary with explanations of all important smart card subjects (600 glossary terms). Smart Card Handbook is firmly established as the definitive reference to every aspect of smart card technology, proving an invaluable resource for security systems development engineers. Professionals and microchip designers working in the smart card industry will continue to benefit from this essential guide. This book is also ideal for newcomers to the field. The Fraunhofer Smart Card Award was presented to the authors for the Smart Card Handbook, Third Edition in 2008.

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.

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 system designers; network, IT and security managers; and software specialists.

Smart Card Security B.B. Gupta, Megha Quamara, 2019-08-08 Smart Card Security: Applications, Attacks, and Countermeasures provides an overview of smart card technology and explores different security attacks and countermeasures associated with it. It covers the origin of smart cards, types of smart cards, and how they work. It discusses security attacks associated with hardware, software, data, and users that are a part of smart card-based systems. The book starts with an introduction to the concept of smart cards and continues with a discussion of the different types of smart cards in use today, including various aspects regarding their configuration, underlying operating system, and usage. It then discusses different hardware- and software-level security attacks in smart card-based systems and applications and the appropriate countermeasures for these security attacks. It then investigates the security attacks on confidentiality, integrity, and availability of data in smart card-based systems and applications, including unauthorized remote monitoring, communication protocol exploitation, denial of service (DoS) attacks, and so forth, and presents the possible countermeasures for these attacks. The book continues with a focus on the security attacks against remote user authentication mechanisms in smart card-based applications and proposes a possible countermeasure for these attacks. Then it covers different communication standards for smart

card-based applications and discusses the role of smart cards in various application areas as well as various open-source tools for the development and maintenance of smart card-based systems and applications. The final chapter explains the role of blockchain technology for securing smart card-based transactions and quantum cryptography for designing secure smart card-based algorithms. *Smart Card Security: Applications, Attacks, and Countermeasures* provides you with a broad overview of smart card technology and its various applications.

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.

Smart Cards Jerome Svigals, 1987

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. 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 al-

rithms, 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.

Using Smart Cards to Gain Market Share Aneace Haddad, 2000 Payment methods, smart cards and customer-relationship marketing are all converging at the moment of purchase, transforming the connections between shoppers, merchants and bankers. This book explores the impact of convergence and the opportunities for companies to use technology to gain market share.

Smart Cards Jack M. Kaplan, 1996 Geared to engineering, business, and government professionals considering Smart Cards as a solution to a business need or problem, this book helps guide the implementation of the appropriate technology, structure of the Smart Card proposal, and management of the new business venture. It contains valuable information on special topics such as patents, trademarks and more.

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.

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. 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.

Smart Card Programming and Security Isabelle Attali, Thomas Jensen, 2003-08-06 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.

Public Transport Planning with Smart Card Data Fumitaka Kurauchi, Jan-Dirk

Schmöcker,2017-02-17 Collecting fares through smart cards is becoming standard in most advanced public transport networks of major cities around the world. Travellers value their convenience and operators the reduced money handling fees. Electronic tickets also make it easier to integrate fare systems, to create complex time and space differentiated fare systems, and to provide incentives to specific target groups. A less-utilised benefit is the data collected through smart cards. Records, even if anonymous, provide for a much better understanding of passengers' travel behaviour as current literature shows. This information can also be used for better service planning. Public Transport Planning with Smart Card Data handles three major topics: how passenger behaviour can be estimated using smart card data, how smart card data can be combined with other trip databases, and how the public transport service level can be better evaluated if smart card data is available. The book discusses theory as well as applications from cities around the world and will be of interest to researchers and practitioners alike who are interested in the state-of-the-art as well as future perspectives that smart card data will bring.

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