

SMART CARD SECURITY

Intro

- Physical/ PACS (E lock, credit cards, IC Card)
- Portable ID (claim) & Authentication (proof)
- Type-II (Something U Have), PIN (read)
- Part of Multi-factor (not alone, SSO password)
- **DoD CAC**/ PIV Cards (Pic+, Wear/ Login, Dual F)
- PKI Certificates/keys -(Crypto/ HSM, Sign email)
- App data, access accountability, evac, websites

Contact

- No own power
- Inserted – Electric Read

Contactless

- RFID Cards (Wireless, Transponder)
- No own power
- Antenna wire - EM Field (Power, I/O)

Design

- IC Chip (Memory) & Microprocessor
- **Power/ Timing Side Channel** (Algo/ Electronics/RF)
- **Micro-probing** - Microscope to electrical contact with bus lines (Override, Delete, DFA 2004 AES IC)
- Temper resistance (PIN Encrypt/ wipe)
- Strip (2mm)/ Diagonal (chip, bar-code, magnetic)
- **Reader cost, Magnetic** - Passive (No IC/ Processor)

- Hybrid - 2 Chips
- Combi - 1 Chip



Smart Card Security And Applications

**Joaquin Garcia-Alfaro, Pascal
Lafourcade**



Smart Card Security And Applications:

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 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**

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 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

Smart Card Security and Applications Mike Hendry, 2001 Annotation 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

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 Research and Advanced Applications Stefan Mangard, 2013-03-14 This book constitutes the thoroughly refereed post conference proceedings of the 11th International Conference on Smart Card Research and Advanced Applications CARDIS 2012 held in Graz Austria in November 2012 The 18 revised full papers presented together with an invited talk were carefully reviewed and selected from 48 submissions The papers are organized in topical sections

on Java card security protocols side channel attacks implementations and implementations for resource constrained devices

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 Card Research and Advanced Applications* Dieter Gollmann,Jean-Louis Lanet,Julien

Iguchi-Cartigny,2010-04-11 This book constitutes the refereed proceedings of the 9th IFIP WG 8 8 11 2 International Conference on Smart Card Research and Advanced Application CARDIS 2010 held in Passau Germany in April 2010 The 16 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on mathematical algorithms side channel analysis systems logical attacks fault analysis and privacy

Foundations and Practice of Security Joaquin Garcia-Alfaro,Pascal Lafourcade,2012-01-09 This book constitutes the carefully refereed and revised selected papers of the 4th Canada France MITACS Workshop on Foundations and Practice of Security FPS 2011 held in Paris France in May 2011 The book contains a revised version of 10 full papers accompanied by 3 keynote addresses 2 short papers and 5 ongoing research reports The papers were carefully reviewed and selected from 30 submissions The topics covered are pervasive security and threshold cryptography encryption cryptanalysis and automatic verification and formal methods in network security

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Table of Contents Smart Card Security And Applications

1. Understanding the eBook Smart Card Security And Applications
 - The Rise of Digital Reading Smart Card Security And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Smart Card Security And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Smart Card Security And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smart Card Security And Applications
 - Personalized Recommendations

- Smart Card Security And Applications User Reviews and Ratings
- Smart Card Security And Applications and Bestseller Lists
- 5. Accessing Smart Card Security And Applications Free and Paid eBooks
 - Smart Card Security And Applications Public Domain eBooks
 - Smart Card Security And Applications eBook Subscription Services
 - Smart Card Security And Applications Budget-Friendly Options
- 6. Navigating Smart Card Security And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - Smart Card Security And Applications Compatibility with Devices
 - Smart Card Security And Applications Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Smart Card Security And Applications
 - Highlighting and Note-Taking Smart Card Security And Applications
 - Interactive Elements Smart Card Security And Applications
- 8. Staying Engaged with Smart Card Security And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smart Card Security And Applications
- 9. Balancing eBooks and Physical Books Smart Card Security And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smart Card Security And Applications
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Smart Card Security And Applications
 - Setting Reading Goals Smart Card Security And Applications
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smart Card Security And Applications
 - Fact-Checking eBook Content of Smart Card Security And Applications

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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