Trusted Computing in Embedded Systems

Challenges

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Trusted Computing For Embedded Systems

Xing Zhang,Zhonghai Wu,Xingmian Sha

Trusted Computing For Embedded Systems:

Trusted Computing for Embedded Systems Bernard Candaele,Dimitrios Soudris,Iraklis Anagnostopoulos,2014-12-11 This book describes the state of the art in trusted computing for embedded systems It shows how a variety of security and trusted computing problems are addressed currently and what solutions are expected to emerge in the coming years The discussion focuses on attacks aimed at hardware and software for embedded systems and the authors describe specific solutions to create security features Case studies are used to present new techniques designed as industrial security solutions Coverage includes development of tamper resistant hardware and firmware mechanisms for lightweight embedded devices as well as those serving as security anchors for embedded platforms required by applications such as smart power grids smart networked and home appliances environmental and infrastructure sensor networks etc Enables readers to address a variety of security threats to embedded hardware and software Describes design of secure wireless sensor networks to address secure authentication of trusted portable devices for embedded systems Presents secure solutions for the design of smart grid applications and their deployment in large scale networked and systems *Trusted Platform Module Basics* Steven L. Kinney,2006-09-13 Clear practical tutorial style text with real world applications First book on TPM for embedded designers Provides a sound foundation on the TPM helping designers take advantage of hardware security based on sound TCG standards Covers all the TPM basics discussing in detail the TPM Key Hierarchy and the Trusted Platform Module specification Presents a methodology to enable designers and developers to successfully integrate the TPM into an embedded design and verify the TPM s operation on a specific platform This sound foundation on the TPM provides clear practical tutorials with detailed real world application examples The author is reknowned for training embedded systems developers to successfully implement the TPM worldwide **Embedded Systems Security** David Kleidermacher,Mike Kleidermacher,2012-03-16 Front Cover Dedication Embedded Systems Security Practical Methods for Safe and Secure Softwareand Systems Development Copyright Contents Foreword Preface About this Book Audience Organization Approach Acknowledgements Chapter 1 Introduction to Embedded Systems Security 1 1What is Security 1 2What is an Embedded System 1 3Embedded Security Trends 1 4Security Policies 1 5Security Threats 1 6Wrap up 1 7Key Points 1 8 Bibliography and Notes Chapter 2 Systems Software Considerations 2 1The Role of the Operating System 2 2Multiple Independent Levels of Security **A Practical Guide to Trusted Computing** David Challener,Kent Yoder,Ryan Catherman,David Safford,Leendert Van Doorn,2007-12-27 Use Trusted Computing to Make PCs Safer More Secure and More Reliable Every year computer security threats become more severe Software alone can no longer adequately defend against them what s needed is secure hardware The Trusted Platform Module TPM makes that possible by providing a complete open industry standard for implementing trusted computing hardware subsystems in PCs Already available from virtually every leading PC manufacturer TPM gives software professionals powerful new ways to protect their customers Now there s a start to finish

guide for every software professional and security specialist who wants to utilize this breakthrough security technology Authored by innovators who helped create TPM and implement its leading edge products this practical book covers all facets of TPM technology what it can achieve how it works and how to write applications for it The authors offer deep real world insights into both TPM and the Trusted Computing Group TCG Software Stack Then to demonstrate how TPM can solve many of today s most challenging security problems they present four start to finish case studies each with extensive C based code examples Coverage includes What services and capabilities are provided by TPMs TPM device drivers solutions for code running in BIOS TSS stacks for new operating systems and memory constrained environments Using TPM to enhance the security of a PC s boot sequence Key management in depth key creation storage loading migration use symmetric keys and much more Linking PKCS 11 and TSS stacks to support applications with middleware services What you need to know about TPM and privacy including how to avoid privacy problems Moving from TSS 1 1 to the new TSS 1 2 standard TPM and TSS command references and a complete function library **Trust and Trustworthy Computing** Jonathan McCune,Boris Balacheff,Adrian Perrig,Ahmad-Reza Sadeghi,M. Angela Sasse,Yolanta Beres,2011-06-14 This book constitutes the refereed proceedings of the 4th International Conference on Trust and Trustworthy Computing TRUST 2011 held in Pittsburgh PA USA in June 2011 The 23 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in technical sessions on cloud and virtualization physically unclonable functions mobile device security socio economic aspects of trust hardware trust access control privacy trust aspects of routing and cryptophysical protocols

Embedded System Technology Xing Zhang,Zhonghai Wu,Xingmian Sha,2016-02-04 This book constitutes the refereed proceedings of the 13th National Conference on Embedded System Technology ESTC 2015 held in Beijing China in October 2015 The 18 revised full papers presented were carefully reviewed and selected from 63 papers The topics cover a broad range of fields focusing on research about embedded system technologies such as smart hardware system and network applications and algorithm **Autonomic and Trusted Computing** Juan González Nieto,Guojun Wang,Wolfgang Reif,Jadwiga Indulska,2009-06-30 This book constitutes the refereed procedings of the 6th International Conference on Autonomic and Trusted Computing ATC 2009 held in Brisbane Australia in July 2009 co located with UIC 2009 the 6th International Conference on Ubiquitous Intelligence and Computing The 17 revised full papers presented together with one invited paper and one keynote talk were carefully reviewed and selected from 52 submissions The regular papers are organized in topical sections on organic and autonomic computing trusted computing wireless sensor networks and trust

Software Engineering and Knowledge Engineering: Theory and Practice Wei Zhang,2012-06-30 2012 International Conference on Software Engineering Knowledge Engineering and Information Engineering SEKEIE 2012 will be held in Macau April 1 2 2012 This conference will bring researchers and experts from the three areas of Software Engineering Knowledge Engineering and Information Engineering together to share their latest research results and ideas This volume

book covered significant recent developments in the Software Engineering Knowledge Engineering and Information Engineering field both theoretical and applied We are glad this conference attracts your attentions and thank your support to our conference We will absorb remarkable suggestion and make our conference more successful and perfect **Trusted Computing** Dengguo Feng,2017-12-18 The book summarizes key concepts and theories in trusted computing e g TPM TCM mobile modules chain of trust trusted software stack etc and discusses the configuration of trusted platforms and network connections It also emphasizes the application of such technologies in practice extending readers from computer science and information science researchers to industrial engineers *Trusted Computing Technologies for Embedded Systems and Sensor Networks* ,2007 Embedded processors are closely integrated into the fabric of everyday life such as cars and cell phones These embedded processors enable new features however the features increase complexity The steady increase in complexity results in bugs which require software updates to fix This leads to the question How do we securely use potentially compromised devices or devices we don t trust Briefing examines the attacker model and how to ensure code integrity *Advanced Digital Technologies in Digitalized Smart Grid* Xiangjun Zeng,Yan Xu,Dongqi Liu,2022-11-08

Solutions for Cyber-Physical Systems Ubiquity Druml, Norbert,Genser, Andreas,Krieg, Armin,Menghin, Manuel,Hoeller, Andrea,2017-07-20 Cyber physical systems play a crucial role in connecting aspects of online life to physical life By studying emerging trends in these systems programming techniques can be optimized and strengthened to create a higher level of effectiveness Solutions for Cyber Physical Systems Ubiquity is a critical reference source that discusses the issues and challenges facing the implementation usage and challenges of cyber physical systems Highlighting relevant topics such as the Internet of Things smart card security multi core environments and wireless sensor nodes this scholarly publication is ideal for engineers academicians computer science students and researchers that would like to stay abreast of current methodologies and trends involving cyber physical system progression **Trustworthy Reconfigurable Systems** Thomas Feller,2014-08-25 Thomas Feller sheds some light on trust anchor architectures for trustworthy reconfigurable systems He is presenting novel concepts enhancing the security capabilities of reconfigurable hardware Almost invisible to the user many computer systems are embedded into everyday artifacts such as cars ATMs and pacemakers The significant growth of this market segment within the recent years enforced a rethinking with respect to the security properties and the trustworthiness of these systems The trustworthiness of a system in general equates to the integrity of its system components Hardware based trust anchors provide measures to compare the system configuration to reference measurements Reconfigurable architectures represent a special case in this regard as in addition to the software implementation the underlying hardware architecture may be exchanged even during runtime **13th National Computer Security Conference** ,1990 **Proceedings of the ACM Workshop on Privacy in the Electronic Society** ,2005

Security for Mobile Networks and Platforms Selim Aissi,Nora Dabbous,Anand Prasad,2006 With viruses spyware and

a seemingly unending onslaught of new cyber threats security is a crucial and constant concern in the mobile communications industry Helping you become a mobile security specialist this timely resource explains the essentials of the latest security standards and protocols Covering each type of mobile technology from WiFi to Bluetooth the book details each technology s weaknesses and provides you with comprehensive countermeasures Most importantly the book pinpoints security issues encountered end to end throughout an entire mobile network You find a complete catalog of security vulnerabilities to ensure that every security measure is taken Moreover this forward looking reference includes a practical hands on discussion of promising next generation research into mobile security that helps prepare you for the ever looming next waves of security threats Publisher s website Computer Security E. Graham Dougall,1993 This publication explores not only the evolution of computer security but future developments anticipated in the field Many aspects of this increasingly significant area are considered including the relationship between international standards and organizational security in both small and large systems The importance of constantly improving and updating training and education is also discussed Contributions are sourced from a broad base of world renowned specialists and the book will therefore be of prime interest to researchers developers and managers in the academic and industrial spheres alike Proceedings of the ... USENIX Security Symposium ,2006 **Symposium** ,2008 **Research Highlights** Iowa State University. Department of Electrical and Computer Engineering,2013

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