Security For The New Mobile Network

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11th International Conference on Cyber Warfare and Security

Jones & Bartlett Learning Over 40 recipes to master mobile

device penetration testing with open source tools About This Book Learn application exploitation for popular mobile platforms Improve the current security level for mobile platforms and applications Discover tricks of the trade with the help of code snippets and screenshots Who This Book Is For This book is intended for mobile security enthusiasts and penetration testers who wish to secure mobile devices to prevent attacks and discover vulnerabilities to protect devices. What You Will Learn Install and configure Android SDK and ADB Analyze Android Permission Model using ADB and bypass Android Lock Screen Protection Set up the iOS Development Environment - Xcode and iOS Simulator Create a Simple Android app and iOS app and run it in Emulator and Simulator respectively Set up the Android and iOS Pentesting Environment Explore mobile malware, reverse engineering, and code your own malware Audit Android and iOS apps using static and dynamic analysis Examine iOS App Data storage and Keychain security vulnerabilities Set up the Wireless Pentesting Lab for Mobile

Devices Configure traffic interception with Android and intercept Traffic using Burp Suite and Wireshark Attack mobile applications by playing around with traffic and SSL certificates Set up the Blackberry and Windows Phone Development Environment and Simulator Setting up the Blackberry and Windows Phone Pentesting Environment Steal data from Blackberry and Windows phones applications In Detail Mobile attacks are on the rise. We are adapting ourselves to new and improved smartphones, gadgets, and their accessories, and with this network of smart things, come bigger risks. Threat exposure increases and the possibility of data losses increase. Exploitations of mobile devices are significant sources of such attacks. Mobile devices come with different platforms, such as Android and iOS. Each platform has its own feature-set, programming language, and a different set of tools. This means that each platform has different exploitation tricks, different malware, and requires a unique approach in regards to forensics or penetration testing. Device exploitation is a broad subject which is widely discussed, equally

explored by both Whitehats and Blackhats. This cookbook recipes take you through a wide variety of exploitation techniques across popular mobile platforms. The journey starts with an introduction to basic exploits on mobile platforms and reverse engineering for Android and iOS platforms. Setup and use Android and iOS SDKs and the Pentesting environment. Understand more about basic malware attacks and learn how the malware are coded. Further, perform security testing of Android and iOS applications and audit mobile applications via static and dynamic analysis. Moving further, you'll get introduced to mobile device forensics. Attack mobile application traffic and overcome SSL, before moving on to penetration testing and exploitation. The book concludes with the basics of platforms and exploit tricks on BlackBerry and Windows Phone. By the end of the book, you will be able to use variety of exploitation techniques across popular mobile platforms with stress on Android and iOS. Style and approach This is a hands-on recipe guide that walks you through different aspects of mobile device exploitation and securing your mobile

devices against vulnerabilities. Recipes are packed with useful code snippets and screenshots.

Mobile Phone Security

Springer Science & Business Media

Mobile device security is something that affects nearly every person in the world. Users are still however, crying out for good information on what they should do to prevent theft, protect their smartphone from attack and for advice that they can use practically to help themselves. This short book sets out to address that. Originally written as a whitepaper for the Police in the UK, it gives some of the history of mobile security and explains the efforts that have gone on behind the scenes in the mobile industry to help secure users. It also provides guidance for users to help protect themselves. The technology in mobile phones is constantly evolving and new threats and attacks emerge on a daily basis. Educating users is one of the most important and valuable things that can be done to help prevent harm. The author brings his extensive experience of the mobile industry and security development for devices to this book in order to help make users safer and more secure.

Wireless and Mobile Device Security IGI Global
Learn how to keep yourself safe online with easy- to-follow examples and real- life scenarios. Written by developers at IBM, this guide should be the only resource you need to keep your personal information private.Mobile security is one of the most talked about areas in I.T. today with data being stolen from smartphones and tablets around the world. Make sure you, and your family, are protected when they go online.
Security in Next Generation Mobile Networks Packt Pub Limited
Proven security tactics for today's mobile apps, devices, and networks "A great overview of the new threats created by mobile devices. ...The authors have heaps of experience in the topics and bring that to every chapter." -- Slashdot
Hacking Exposed Mobile continues in the great tradition of the Hacking Exposed series, arming business leaders and technology practitioners with an in-depth understanding of the latest attacks and countermeasures--so they can leverage the power of mobile platforms while ensuring that security risks are contained." -- Jamil Farshchi,

Senior Business Leader of Strategic Planning and Initiatives, VISA Identify and evade key threats across the expanding mobile risk landscape. Hacking Exposed Mobile: Security Secrets & Solutions covers the wide range of attacks to your mobile deployment alongside ready-to-use countermeasures. Find out how attackers compromise networks and devices, attack mobile services, and subvert mobile apps. Learn how to encrypt mobile data, fortify mobile platforms, and eradicate malware. This cutting-edge guide reveals secure mobile development guidelines, how to leverage mobile OS features and MDM to isolate apps and data, and the techniques the pros use to secure mobile payment systems. Tour the mobile risk ecosystem with expert guides to both attack and defense Learn how cellular network attacks compromise devices over-the-air See the latest Android and iOS attacks in action, and learn how to stop them Delve into mobile malware at the code level to understand how to write resilient apps Defend against server-side mobile attacks, including SQL and XML injection Discover mobile web

attacks, including abuse of custom URI schemes and JavaScript bridges Develop stronger mobile authentication routines using OAuth and SAML Get comprehensive mobile app development security guidance covering everything from threat modeling to iOS- and Android-specific tips Get started quickly using our mobile pen testing and consumer security checklists *Protecting Mobile Networks and Devices* 5starcooks Mobile Security and Privacy: Advances, Challenges and Future Research Directions provides the first truly holistic view of leading edge mobile security research from Dr. Man Ho Au and Dr. Raymond Choo—leading researchers in mobile security. Mobile devices and apps have become part of everyday life in both developed and developing countries. As with most evolving technologies, mobile devices and mobile apps can be used for criminal exploitation. Along with the increased use of mobile devices and apps to access and store sensitive, personally identifiable information (PII) has come an increasing need for the community to have a better understanding of the associated security and

privacy risks. Drawing upon the expertise of world-renowned researchers and experts, this volume comprehensively discusses a range of mobile security and privacy topics from research, applied, and international perspectives, while aligning technical security implementations with the most recent developments in government, legal, and international environments. The book does not focus on vendor-specific solutions, instead providing a complete presentation of forward-looking research in all areas of mobile security. The book will enable practitioners to learn about upcoming trends, scientists to share new directions in research, and government and industry decision-makers to prepare for major strategic decisions regarding implementation of mobile technology security and privacy. In addition to the state-of-the-art research advances, this book also discusses prospective future research topics and open challenges. Presents the most current and leading edge research on mobile security and privacy, featuring a panel of top experts in the field Provides a strategic and international overview of

the security issues surrounding mobile technologies Covers key technical topics and provides readers with a complete understanding of the most current research findings along with future research directions and challenges Enables practitioners to learn about upcoming trends, scientists to share new directions in research, and government and industry decision-makers to prepare for major strategic decisions regarding the implementation of mobile technology security and privacy initiatives *Advances in Security and Payment Methods for Mobile Commerce* Springer Personal mobile devices like smartphones and tablets are ubiquitous. People use mobile devices for fun, for work, and for organizing and managing their lives, including their finances. This has become possible because over the past two decades, mobile phones evolved from closed platforms intended for voice calls and messaging to open platforms whose functionality can be extended in myriad ways by third party developers. Such wide-ranging scope of use also means widely different security and privacy

requirements for those uses. As mobile platforms gradually opened, platform security mechanisms were incorporated into their architectures so that the security and privacy requirements of all stakeholders could be met. The time is therefore right to take a new look at mobile platform security, which is the intent of this monograph.The monograph is divided into four parts: firstly, the authors look at the how and why of mobile platform security, and this is followed by a discussion on vulnerabilities and attacks. The monograph concludes by looking forward and discussing emerging research that explores ways of dealing with hardware compromise, and building blocks for the next generation of hardware platform security. The authors have intended to provide a broad overview of the current state of practice and a glimpse of possible research directions that can be of use to practitioners, decision makers, and researchers. The focus of this monograph is on hardware platform security in mobile devices. Other forms of Security, such as OS Security, are briefly covered, but from the

perspective of motivating hardware platform security. Also, specific high-level attacks such as jail-breaking or rooting are not covered, though the basic attacks described in Part III can, and often are, used as stepping stones for these high-level attacks.
Mobile Platform Security
Imperial College Press
This book gathers and analyzes the latest attacks, solutions, and trends in mobile networks. Its broad scope covers attacks and solutions related to mobile networks, mobile phone security, and wireless security. It examines the previous and emerging attacks and solutions in the mobile networking worlds, as well as other pertinent security issues. The many attack samples present the severity of this problem, while the delivered methodologies and countermeasures show how to build a truly secure mobile computing environment.
Research Anthology on Securing Mobile Technologies and Applications
Springer
Cellular communication and especially mobile handsets are an essential part of our daily lives. Therefore, they need to be secure and work reliably. But mobile handsets and cellular networks are highly

complex systems and securing them is a challenging task. This work takes a new path for securing mobile handsets and targets the cellular modem as the route to improve the security of mobile handsets and cellular networks. We target the modem since it is one of the essential parts of a mobile handset. The modem provides the radio link to the cellular network therefore making it a key element in the task to secure mobile communications. But cellular modems are proprietary and closed systems that cannot be easily analyzed in the full or even modified to improve security. We investigate the security of the cellular modem at its border to the mobile phone operating system. In this work we analyze and improve the security of the cellular modem interface. We further show how the modem interface can be abused for attacks and how such attacks can be prevented. Throughout this work we show that the cellular modem has a significant impact on mobile phone security.

Trustworthy Execution on Mobile Devices
Springer
The explosive demand for mobile communications is driving the development

of wireless technology at an unprecedented pace. Unfortunately, this exceptional growth is also giving rise to a myriad of security issues at all levels- from subscriber to network operator to service provider. Providing technicians and designers with a critical and comprehens Security of Mobile Communications Syngress What would be the goal or target for a Mobile Application Security's improvement team? What tools do you use once you have decided on a Mobile Application Security strategy and more importantly how do you choose? Are you using a design thinking approach and integrating Innovation, Mobile Application Security Experience, and Brand Value? How does the organization define, manage, and improve its Mobile Application Security processes? What vendors make products that address the Mobile Application Security needs? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-

time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Mobile Application Security investments work better. This Mobile Application Security All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Mobile Application Security Self-Assessment. Featuring 668 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Mobile Application Security improvements can be made. In using the questions you

will be better able to: - diagnose Mobile Application Security projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Mobile Application Security and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Mobile Application Security Scorecard, you will develop a clear picture of which Mobile Application Security areas need attention. Your purchase includes access details to the Mobile Application Security self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-

Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. **Consumer Mobile Security Apps the Ultimate Step-By-Step Guide** John Wiley & Sons Recently, mobile security has garnered considerable interest in both the research community and industry due to the popularity of smartphones. The current smartphone platforms are open systems that allow application development, also for malicious parties. To protect the mobile device, its user, and other mobile ecosystem stakeholders such as network operators, application execution is controlled by a platform security architecture. This book explores how such mobile platform security architectures work. We present a generic model for mobile

platform security architectures: the model illustrates commonly used security mechanisms and techniques in mobile devices and allows a systematic comparison of different platforms. We analyze several mobile platforms using the model. In addition, this book explains hardware-security mechanisms typically present in a mobile device. We also discuss enterprise security extensions for mobile platforms and survey recent research in the area of mobile platform security. The objective of this book is to provide a comprehensive overview of the current status of mobile platform security for students, researchers, and practitioners. *Mobile Phone Security and Forensics* John Wiley & Sons Written by an industry expert, Wireless and Mobile Device Security explores the evolution of wired networks to wireless networking and its impact on the corporate world. *Security in Distributed, Grid, Mobile, and Pervasive Computing* Springer Provides information on how to protect mobile devices against online threats and describes how to back up and restore data and develop and implement a

mobile security plan. **Mobile Application Security the Ultimate Step-By-Step Guide** CRC Press Seminar paper from the year 2018 in the subject Computer Science - IT-Security, grade: 1,0, Technical University of Munich, course: Seminar Mobile Application Security, language: English, abstract: Smartphones are being used as the preferred device for as many things as possible in today's world. This is why having secure phones that are resilient against attacks targeting their users' data, becomes more and more important. This paper tries to assess what measures device vendors have taken to ensure those attacks will not be successful. Because the market is mostly divided between Google's Android and Apple's iOS, we put our focus on those two operating systems and compare their respective security models. Additionally this comparison will be evaluating how those models have changed over time since the beginning of the smartphone era around 2010. The last part of this analysis will take a look at a different view on smartphones, the perspective of

so-called "power users": Those are people that do not only use their smartphone for downloading some apps and surfing the Internet but rather want to do some lower-level customization to the operating system, by rooting their Android device or jailbreaking their iPhone. This process of gaining full privileges on the phone not only creates advantages for the user but can also have rather negative implications on the device's security. How exactly does this affect the protections implemented by the vendor?

Is My Cell Phone Bugged? Butterworth-Heinemann

Starting from voice services with simple terminals, a mobile device today is nothing short of a small PC in the form of smart-phones. The result has been a huge increase in data-services, giving mobile communication access to critical aspects of human life. This has led to the standardization of System Architecture Evolution/Long Term Evolution (SAE/LTE) by 3GPP and IEEE 802.16e / WiMAX. Together with penetration of mobile communications and new standardization come new security issues and, thus, the need for new security solutions. Security in Next

Generation Mobile Networks provides a fresh look at those security aspects with the main focus on the latest security developments in 3GPP SAE/LTE and WiMAX. SAE/LTE is also known as Evolved Packet System (EPS). This book includes six chapters, the first three serving as introductory text, and the remaining three providing more in-depth discussions. Chapter One gives a background of Next Generation Mobile Networks (NGMN) activity and requirements. Following this explanation, Chapter Two provides an overview of security, telecommunication systems, and their requirements, and Chapter Three provides some background on standardization. Chapter Four discusses the EPS (or SAE/LTE) security architecture developed by 3GPP. In particular, this chapter covers the authentication and key agreement method for SAE/LTE together with newly defined key hierarchy. This chapter also addresses the challenging aspects of SAE/LTE interworking and mobility with UMTS together with the necessary key-exchange technologies. Chapter Five provides an in-depth discussion of the WiMAX security requirements, the

authentication aspects of PKMv2, and the overall WiMAX network security aspects. In Chapter Six, the text briefly covers security for: - Home(evolved)NodeB, which is the Femto solution from 3GPP - Machine-to-Machine (M2M) - Multimedia Broadcast and Multicast Service (MBMS) and Group Key Management. The intended audience for this book is mobile network and device architects, designers, researchers, and students. The goal of the authors, who have a combined experience of more than 25 years in mobile security standardizatio n, architecture, research, and education, is to provide readers with a fresh, up-to-date look at the architecture and challenges of EPS and WiMAX security.

Security and Privacy in Mobile Information and Communicatio n Systems

Academic Conferences and publishing limited

This book constitutes the thoroughly refereed post-conference proceedings of the fourth International ICST Conference on Security and Privacy in Mobile Information and Communicatio n Systems (MOBISEC 2012) held in Frankfurt/Main , Germany, in June 2012. The 13 revised

full papers were carefully selected from numerous submissions and cover the application layer of security, highlighting the practical importance of security of mobile devices in concrete usages. Contributions to MobiSec 2012 range from treatments on user privacy issues, over mobile application and app security, to mobile identity management, and NFC. With the orientation toward applications, MobiSec is a perfect interface between academia and industry in the field of mobile communications.

Security Modeling and Analysis of Mobile Agent Systems Tata McGraw-Hill Education

Mobile Authentication : Problems and Solutions looks at human-to-machine authentication , with a keen focus on the mobile scenario. Human-to-machine authentication is a startlingly complex issue. In the old days of computer security-before 2000, the human component was all but disregarded. It was either assumed that people should and would be able to follow instructions, or that end users were hopeless and would always make mistakes. The truth, of course, is somewhere in between, which is exactly what

makes this topic so enticing. We cannot make progress with human-to-machine authentication without understanding both humans and machines. Mobile security is not simply security ported to a handset. Handsets have different constraints than traditional computers, and are used in a different way. Text entry is more frustrating, and therefore, it is tempting to use shorter and less complex passwords. It is also harder to detect spoofing. We need to design with this in mind. We also need to determine how exactly to integrate biometric readers to reap the maximum benefits from them. This book addresses all of these issues, and more. **Mobile Security: How to secure, privatize and recover your devices** River Publishers New paradigms can popularize old technologies. A new \standalone" paradigm, the electronic desktop, popularized the personal computer. A new \connected" paradigm, the web browser, popularized the Internet. Another new paradigm, the mobile agent, may further popularize the Internet by giving people greater access to it with less eort. MobileAgentP aradigm The mobile agent paradigm

integrates a network of computers in a novel way designed to simplify the development of network applications. To an application developer the computers appear to form an electronic world of places occupied by agents. Each agent or place in the electronic world has the authority of an individual or an organization in the physical world. The authority can be established, for example, cryptographically. A mobile agent can travel from one place to another subject to the des- nation place's approval. The source and destination places can be in the same computer or in di erent computers. In either case,the agentinitiates the trip by executing a \go" instruction which takes as an argument the name or address of the destination place. The next instruction in the agent's program is executed in the destination place, rather than in the source place. Thus, in a sense, the mobile agent paradigm reduces networking to a program instruction. A mobile agent can interact programmatically with the places it visits and, if the other agents approve, with the other agents it encounters in those places.

Mobile Device Exploitation

Cookbook Springer Mobile technologies have become a staple in society for their accessibility and diverse range of applications that are continually growing and advancing. Users are increasingly using these devices for activities beyond simple communication including gaming and e-commerce and to access confidential information including banking accounts and medical records. While mobile devices are being so widely used and accepted in daily life, and subsequently housing more and more personal data, it is evident that the security of these devices is paramount. As mobile applications now create easy access to personal information, they can incorporate location tracking services, and data collection can happen discreetly behind the scenes. Hence, there needs to be more security and privacy measures enacted to ensure that mobile technologies can be used safely. Advancements in trust and privacy, defensive strategies, and steps for securing the device are important foci as mobile technologies are highly popular and rapidly developing. The Research Anthology on Securing Mobile

Technologies and Applications discusses the strategies, methods, and technologies being employed for security amongst mobile devices and applications. This comprehensive book explores the security support that needs to be required on mobile devices to avoid application damage, hacking, security breaches and attacks, or unauthorized accesses to personal data. The chapters cover the latest technologies that are being used such as cryptography, verification systems, security policies and contracts, and general network security procedures along with a look into cybercrime and forensics. This book is essential for software engineers, app developers, computer scientists, security and IT professionals, practitioners, stakeholders, researchers, academicians, and students interested in how mobile technologies and applications are implementing security protocols and tactics amongst devices.

Security Issues in Mobile NFC Devices

Sudwestdeutscher Verlag Fur Hochschulschriften AG

This book addresses the increasing demand to guarantee privacy,

integrity, and availability of resources in networks and distributed systems. It first reviews security issues and challenges in content distribution networks, describes key agreement protocols based on the Diffie-Hellman key exchange and key management protocols for complex distributed systems like the Internet, and discusses securing design patterns for distributed systems. The next section focuses on security in mobile computing and wireless networks. After a section on grid computing security, the book presents an overview of security solutions for pervasive healthcare systems and surveys wireless sensor network security.