

Maximum Wireless Security

Wireless Security: Know It AllGuide to Wireless Network SecurityWireless Security and PrivacyReal 802.11 SecuritySecurity in Wireless Communication NetworksWireless Network Security A Beginner's GuideWireless Security and CryptographyWireless Network SecurityWireless Security HandbookMaximum Wireless SecurityWireless Security: Models, Threats, and SolutionsHow Secure is Your Wireless Network?Wireless SecurityBulletproof Wireless SecurityWiFi Security: Protecting Wireless NetworksWireless Operational SecurityWireless Networks and SecurityWireless SecurityWireless Security ArchitectureWireless Security Essentials *Praphul Chandra John R. Vacca Tara M. Swaminatha Jon Edney Yi Qian Tyler Wrightson Nicolas Sklavos Yang Xiao Aaron E. Earle Cyrus Peikari Randall K. Nichols Lee Barken Wolfgang Osterhage Praphul Chandra J. Thomas John W. Rittinghouse Shafiullah Khan Merrit Maxim Jennifer Minella Russell Dean Vines*

Wireless Security: Know It All Guide to Wireless Network Security Wireless Security and Privacy Real 802.11 Security Security in Wireless Communication Networks Wireless Network Security A Beginner's Guide Wireless Security and Cryptography Wireless Network Security Wireless Security Handbook Maximum Wireless Security Wireless Security: Models, Threats, and Solutions How Secure is Your Wireless Network? Wireless Security Bulletproof Wireless Security WiFi Security: Protecting Wireless Networks Wireless Operational Security Wireless Networks and Security Wireless Security Wireless Security Architecture Wireless Security Essentials *Praphul Chandra John R. Vacca Tara M. Swaminatha Jon Edney Yi Qian Tyler Wrightson Nicolas Sklavos Yang Xiao Aaron E. Earle Cyrus Peikari Randall K. Nichols Lee Barken Wolfgang Osterhage Praphul Chandra J. Thomas John W. Rittinghouse Shafiullah Khan Merrit Maxim Jennifer Minella Russell Dean Vines*

the newnes know it all series takes the best of what our authors have written to create hard working desk references that will be an engineer's first port of call for key information design techniques and rules of thumb guaranteed not to gather dust on a shelf communications engineers need to master a wide area of topics to excel the wireless security know it all covers every angle including emerging wireless technologies and security issues wireless lan and man security as well as wireless personal area networks a 360 degree view from our best selling authors topics include today's wireless technology security definitions and concepts and wireless handheld devices the ultimate hard working desk reference all the essential information techniques and tricks of the trade in one volume

1 introduction with the increasing deployment of wireless networks 802 11 architecture in enterprise environments it enterprises are working to implement security mechanisms that are equivalent to those existing today for wire based networks an important aspect of this is the need to provide secure access to the network for valid users existing wired network jacks are located inside buildings already secured from unauthorized access through the use of keys badge access and so forth a user must gain physical access to the building in order to plug a client computer into a network jack in contrast a wireless access point ap may be accessed from off the premises if the signal is detectable for instance from a parking lot adjacent to the building thus wireless networks require secure access to the ap and the ability to isolate the ap from the internal private network prior to user authentication into the network domain furthermore as enterprises strive to provide better availability of mission critical wireless data they also face the challenge of maintaining that data's security and integrity while each connection with a client a supplier or a enterprise partner can improve responsiveness and efficiency it also increases the vulnerability of enterprise wireless data to attack in such an environment wireless network security is becoming more important every day also with the growing reliance on e commerce wireless network based services and the internet enterprises are faced with an ever increasing responsibility to protect their systems from attack

before wireless commerce or even wireless access to the corporate network can really take off organizations are going to have to improve their efforts in wireless security wireless security and privacy presents a complete methodology for security professionals and

wireless developers to coordinate their efforts establish wireless security best practices and establish security measures that keep pace with development the material shows how to develop a risk model and shows how to implement it through the lifecycle of a system coverage includes the essentials on cryptography and privacy issues in order to design appropriate security applications the authors teach the limitations inherent in wireless devices as well as best methods for developing secure software for them the authors combine the right amount of technological background in conjunction with a defined process for assessing wireless security

this book describes new approaches to wireless security enabled by the recent development of new core technologies for wi fi 802 11 it shows how the new approaches work and how they should be applied for maximum effect for system administrators product designers or advanced home users

receive comprehensive instruction on the fundamentals of wireless security from three leading international voices in the field security in wireless communication networksdelivers a thorough grounding in wireless communication security the distinguished authors pay particular attention to wireless specific issues like authentication protocols for various wireless communication networks encryption algorithms and integrity schemes on radio channels lessons learned from designing secure wireless systems and standardization for security in wireless systems the book addresses how engineers administrators and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system with all of its inherent harshness and interference readers will learn a comprehensive introduction to the background of wireless communication network security including a broad overview of wireless communication networks security services the mathematics crucial to the subject and cryptographic techniques an exploration of wireless local area network security including bluetooth security wi fi security and body area network security an examination of wide area wireless network security including treatments of 2g 3g and 4g discussions of future development in wireless security including 5g and vehicular ad hoc network security perfect for undergraduate and graduate students in programs related to wireless communication security in wireless communication networks will also earn a place in the libraries of professors researchers scientists engineers industry managers consultants and members of government security agencies who seek to

improve their understanding of wireless security protocols and practices

security smarts for the self guided it professional protect wireless networks against all real world hacks by learning how hackers operate wireless network security a beginner s guide discusses the many attack vectors that target wireless networks and clients and explains how to identify and prevent them actual cases of attacks against wep wpa and wireless clients and their defenses are included this practical resource reveals how intruders exploit vulnerabilities and gain access to wireless networks you ll learn how to securely deploy wpa2 wireless networks including wpa2 enterprise using digital certificates for authentication the book provides techniques for dealing with wireless guest access and rogue access points next generation wireless networking technologies such as lightweight access points and cloud based wireless solutions are also discussed templates checklists and examples give you the hands on help you need to get started right away wireless network security a beginner s guide features lingo common security terms defined so that you re in the know on the job imho frank and relevant opinions based on the author s years of industry experience in actual practice exceptions to the rules of security explained in real world contexts your plan customizable checklists you can use on the job now into action tips on how why and when to apply new skills and techniques at work this is an excellent introduction to wireless security and their security implications the technologies and tools are clearly presented with copious illustrations and the level of presentation will accommodate the wireless security neophyte while not boring a mid level expert to tears if the reader invests the time and resources in building a lab to follow along with the text s he will develop a solid basic understanding of what wireless security is and how it can be implemented in practice this is definitely a recommended read for its intended audience richard austin ieee cipher ieee computer society s tc on security and privacy e109 july 23 2012

as the use of wireless devices becomes widespread so does the need for strong and secure transport protocols even with this intensified need for securing systems using cryptography does not seem to be a viable solution due to difficulties in implementation the security layers of many wireless protocols use outdated encryption algorithms which have proven unsuitable for hardware usage particularly with handheld devices summarizing key issues involved in achieving desirable performance in security implementations

wireless security and cryptography specifications and implementations focuses on alternative integration approaches for wireless communication security it gives an overview of the current security layer of wireless protocols and presents the performance characteristics of implementations in both software and hardware this resource also presents efficient and novel methods to execute security schemes in wireless protocols with high performance it provides the state of the art research trends in implementations of wireless protocol security for current and future wireless communications unique in its coverage of specification and implementation concerns that include hardware design techniques wireless security and cryptography specifications and implementations provides thorough coverage of wireless network security and recent research directions in the field

this book identifies vulnerabilities in the physical layer the mac layer the ip layer the transport layer and the application layer of wireless networks and discusses ways to strengthen security mechanisms and services topics covered include intrusion detection secure phy mac routing protocols attacks and prevention immunization key management secure group communications and multicast secure location services monitoring and surveillance anonymity privacy trust establishment management redundancy and security and dependable wireless networking

the wireless security handbook provides a well rounded overview of wireless network security it examines wireless from multiple perspectives including those of an auditor security architect and hacker this wide scope benefits anyone who has to administer secure hack or conduct business on a wireless network this text tackles wirele

0672324881 Id a detailed guide to wireless vulnerabilities written by authors who have first hand experience with wireless crackers and their techniques wireless technology and internet security are the two fastest growing technology sectors includes a bonus cd packed with powerful free and demo tools to audit wireless networks reviewed and endorsed by the author of wepcrack a well known tool for breaking 802 11 wep encryption keys maximum wireless securityis a practical handbook that reveals the techniques and tools crackers use to break into wireless networks and that details the steps network administrators need to take to secure their systems the

authors provide information to satisfy the experts hunger for in depth information with actual source code real world case studies and step by step configuration recipes the book includes detailed hands on information that is currently unavailable in any printed text information that has been gleaned from the authors work with real wireless hackers war drivers wireless security developers and leading security experts cyrus peikari is the chief technical officer for virusmd corporation and has several patents pending in the anti virus field he has published several consumer security software programs including an encrypted instant messenger a personal firewall a content filter and a suite of network connectivity tools he is a repeat speaker at defcon seth fogie mcse is a former united state navy nuclear engineer after retiring he has worked as a technical support specialist for a major internet service provider he is currently the director of engineering at virusmd corporation where he works on next generation wireless security software he has been invited to speak at defcon in 2003

nichols and lekkas uncover the threats and vulnerabilities unique to the wireless communication telecom broadband and satellite markets they provide an overview of current commercial security solutions available on the open market

a guide to implementing a realistic successful game plan for safe and secure wireless lans this volume has step by step guidelines and best practices for deploying secure wireless lans in an enterprise or home environment and also within community networks

in the wake of the growing use of wireless communications new types of security risks have evolved wireless security covers the major topic of wireless communications with relevance both to organizations and private users the technological background of these applications and protocols is laid out and presented in detail special emphasis is placed on the ieee 802 11x standards that have been introduced for wlan technology other technologies covered besides wlan include mobile phones bluetooth and infrared in each chapter a major part is devoted to security risks and provisions including encryption and authentication philosophies elaborate checklists have been provided to help it administrators and security officers to achieve the maximum possible security in their installations when using wireless technology the book offers all necessary background information to this complex technological subject it is at the same time

a guideline and a working tool to implement a security strategy in organizations assists in documenting the actual security status of existing installations helps to avoid pitfalls when operating in a wireless environment and in configuring the necessary components

finally a single volume guide to really effective security for both voice and data wireless networks more and more data and voice communications are going via wireless at some point between the sender and intended recipient as a result truly bulletproof wireless security is now more than a desirable feature instead it's a necessity to protect essential personal and business data from hackers and eavesdroppers in this handy reference praphul chandra gives you the conceptual and practical tools every rf wireless and network engineer needs for high security wireless applications inside this book you'll find coverage of these essential topics cryptographic protocols used in wireless networks key based protocols including key exchange and authentication techniques various types of wireless network attacks including reflection session hijacks and fluhrer mantin shamir fms attacks encryption decryption standards and methods multi layered security architectures secure sockets layer ssl and transport layer security tls protocols cellular telephone network architectures and their vulnerabilities modulation techniques such as direct sequence spread spectrum dsss and orthogonal frequency division multiplexing ofdm and you'll also find coverage on such cutting edge topics as security techniques for ad hoc networks and protecting bluetooth networks if you're serious about wireless security then this title belongs on your reference bookshelf

master the art of securing wireless networks with wifi security protecting wireless networks an essential guide for beginners and experts in network protection this book offers a deep dive into the techniques used to strengthen wi-fi security identify vulnerabilities and safeguard your network against unauthorized access learn how to secure your home or office network prevent common security threats and apply effective encryption methods packed with practical examples and clear instructions this book empowers readers to assess the security of their wireless systems and implement best practices for ongoing protection whether you're looking to enhance your own network's security or gain a solid understanding of wireless protection this book is the go-to resource for building a safe reliable network

front cover wireless operational security copyright page contents list of figures and tables foreword preface acknowledgments section i general network security section ii wireless network security glossary a wireless policy essentials b wireless related legislative links c additional wlan references index

wireless networks and security provides a broad coverage of wireless security issues including cryptographic coprocessors encryption authentication key management attacks and countermeasures secure routing secure medium access control intrusion detection epidemics security performance analysis security issues in applications the contributions identify various vulnerabilities in the physical layer mac layer network layer transport layer and application layer and focus on ways of strengthening security mechanisms and services throughout the layers this carefully edited monograph is targeting for researchers post graduate students in universities academics and industry practitioners or professionals

get full details on major mobile wireless clients and operating systems including windows ce palm os unix and windows you ll learn how to design and implement a solid security system to protect your wireless network and keep hackers out endorsed by rsa security the most trusted name in e security this is your one stop guide to wireless security

reduce organizational cybersecurity risk and build comprehensive wifi private cellular and iot security solutions wireless security architecture designing and maintaining secure wireless for enterprise offers readers an essential guide to planning designing and preserving secure wireless infrastructures it is a blueprint to a resilient and compliant architecture that responds to regulatory requirements reduces organizational risk and conforms to industry best practices this book emphasizes wifi security as well as guidance on private cellular and internet of things security readers will discover how to move beyond isolated technical certifications and vendor training and put together a coherent network that responds to contemporary security risks it offers up to date coverage including data published for the first time of new wpa3 security wi fi 6e zero trust frameworks and other emerging trends it also includes concrete strategies suitable for organizations of all sizes from large government agencies to small public and private

companies effective technical resources and real world sample architectures explorations of the relationships between security wireless and network elements practical planning templates guides and real world case studies demonstrating application of the included concepts perfect for network wireless and enterprise security architects wireless security architecture belongs in the libraries of technical leaders in firms of all sizes and in any industry seeking to build a secure wireless network

as wireless device usage increases worldwide so does the potential for malicious code attacks in this timely book a leading national authority on wireless security describes security risks inherent in current wireless technologies and standards and schools readers in proven security measures they can take to minimize the chance of attacks to their systems russell dean vines is the coauthor of the bestselling security certification title the cissp prep guide 0 471 41356 9 book focuses on identifying and minimizing vulnerabilities by implementing proven security methodologies and provides readers with a solid working knowledge of wireless technology and internet connected mobile devices

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