



# **Designing and Deploying 802.11 Wireless Networks**

Second Edition

**A Practical Guide to Implementing 802.11n  
and 802.11ac Wireless Networks For  
Enterprise-Based Applications**

# Designing And Deploying 802.11n Wireless Networks

**Jeff Smith, Jake Woodhams, Robert  
Marg**



## **Designing And Deploying 802.11n Wireless Networks:**

*Designing and Deploying 802.11 Wireless Networks* Jim Geier, 2015 Designing and Deploying 802.11 Wireless Networks Second Edition A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise Based Applications Plan, deploy, and operate high performance 802.11ac and 802.11n wireless networks. The new 802.11ac standard enables WLANs to deliver significantly higher performance. Network equipment manufacturers have refocused on 802.11ac and 802.11n compliant solutions, rapidly moving older versions of 802.11 toward legacy status. Now there's a complete guide to planning, designing, installing, testing, and supporting 802.11ac and 802.11n wireless networks in any environment for virtually any application. Jim Geier offers practical methods, tips, and recommendations that draw on his decades of experience deploying wireless solutions and shaping wireless standards. He carefully introduces 802.11ac's fundamentally different design, site survey, implementation, and network configuration techniques, helping you maximize performance and avoid pitfalls. Geier organizes each phase of WLAN deployment into clearly defined steps, making the entire planning and deployment process easy to understand and execute. He illuminates key concepts and methods through realistic case studies based on current Cisco products, while offering tips and techniques you can use with any vendor's equipment. To build your skills with key tasks, you'll find several hands-on exercises relying on free or inexpensive tools. Whether you're deploying an entirely new wireless network or migrating from older equipment, this guide contains all the expert knowledge you'll need to succeed. Jim Geier has 30 years of experience planning, designing, analyzing, and implementing communications wireless and mobile systems. Geier is founder and Principal Consultant of Wireless Nets Ltd, providing wireless analysis and design services to product manufacturers. He is also president, CEO, and co-founder of Health Grade Networks, providing wireless network solutions to hospitals, airports, and manufacturing facilities. His books include the first edition of *Designing and Deploying 802.11n Wireless Networks* (Cisco Press) as well as *Implementing 802.1X Security Solutions* and *Wireless Networking Handbook*. Geier has been active in the IEEE 802.11 Working Group and Wi-Fi Alliance, has chaired the IEEE Computer Society Dayton Section, and various conferences, and served as expert witness in patent litigation related to wireless and cell.

**Designing and Deploying 802.11n Wireless Networks** Jim Geier, 2010-06-01 Gain a practical understanding of the underlying concepts of the 802.11n standard and the methodologies for completing a successful wireless network installation. Practical start-to-finish guidance for successful deployment of 802.11n wireless LANs. With the ratification of the 802.11n wireless LAN standard, thousands of companies are moving rapidly toward implementation. However, 802.11n is very different from legacy 802.11a, 802.11b, and 802.11g wireless standards, and successful deployment requires new knowledge and techniques. In this book, leading wireless expert Jim Geier systematically presents all the information and guidance that network architects, engineers, administrators, and managers need to maximize the performance and business value of new 802.11n networks. Drawing on extensive experience with real-world 802.11n deployments, Geier

guides you through the entire project lifecycle planning design installation testing monitoring and support Each phase of wireless LAN deployment is organized into clearly defined steps and multiple case studies and hands on exercises show how to apply each technique You ll find practical guidance for deploying in enterprises without existing wireless infrastructure as well as migrating from legacy 802.11a 802.11b or 802.11g networks For convenient reference Geier also provides an extensive up to date wireless networking glossary Understanding 802.11n MAC physical layer and related standards Designing 802.11n wireless networks for diverse scenarios considering architecture range performance roaming and RF issues Migrating from 802.11a 802.11b and 802.11g wireless networks Choosing the right tools and equipment and using them effectively Planning effectively scoping projects creating work breakdown structures organizing teams schedules and budgets defining requirements and more Securing WLANs via encryption authentication rogue access point detection RF shielding and policies Performing site surveys and identifying optimum access point locations Installing and configuring wireless LANs planning staging deployment documentation and more Systematic testing to improve signal coverage performance and security Managing wireless LANs help desk support network monitoring maintenance engineering configuration management security tools and more Troubleshooting 802.11n networks identifying issues with connectivity performance and more

*Designing and Deploying 802.11 Wireless Networks* Jim Geier, 2015-04-29 Designing and Deploying 802.11 Wireless Networks Second Edition A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise Based Applications Plan deploy and operate high performance 802.11ac and 802.11n wireless networks The new 802.11ac standard enables WLANs to deliver significantly higher performance Network equipment manufacturers have refocused on 802.11ac and 802.11n compliant solutions rapidly moving older versions of 802.11 toward legacy status Now there s a complete guide to planning designing installing testing and supporting 802.11ac and 802.11n wireless networks in any environment for virtually any application Jim Geier offers practical methods tips and recommendations that draw on his decades of experience deploying wireless solutions and shaping wireless standards He carefully introduces 802.11ac s fundamentally different design site survey implementation and network configuration techniques helping you maximize performance and avoid pitfalls Geier organizes each phase of WLAN deployment into clearly defined steps making the entire planning and deployment process easy to understand and execute He illuminates key concepts and methods through realistic case studies based on current Cisco products while offering tips and techniques you can use with any vendor s equipment To build your skills with key tasks you ll find several hands on exercises relying on free or inexpensive tools Whether you re deploying an entirely new wireless network or migrating from older equipment this guide contains all the expert knowledge you ll need to succeed Jim Geier has 30 years of experience planning designing analyzing and implementing communications wireless and mobile systems Geier is founder and Principal Consultant of Wireless Nets Ltd providing wireless analysis and design services to product manufacturers He is also president CEO and co

founder of Health Grade Networks providing wireless network solutions to hospitals airports and manufacturing facilities His books include the first edition of *Designing and Deploying 802.11n Wireless Networks* Cisco Press as well as *Implementing 802.1X Security Solutions* and *Wireless Networking Handbook* Geier has been active in the IEEE 802.11 Working Group and Wi-Fi Alliance has chaired the IEEE Computer Society Dayton Section and various conferences and served as expert witness in patent litigation related to wireless and cellular technologies Review key 802.11 concepts applications markets and technologies Compare ad hoc mesh and infrastructure WLANs and their components Consider the impact of radio signal interference security vulnerabilities multipath propagation roaming and battery limitations Thoroughly understand today's 802.11 standards in the context of actual network deployment and support Plan your deployment scoping staffing schedules budgets risks feasibility analysis and requirements Architect access networks and distribute

*Designing and Deploying 802.11n Wireless Networks* James T. Geier, 2010      ***Designing and Deploying 802.11 Wireless Networks*** James T. Geier, 2015      *Controller-Based Wireless LAN Fundamentals* Jeff Smith, Jake Woodhams, Robert Marg, 2010-10-29

*Controller-Based Wireless LAN Fundamentals* An end to end reference guide to design deploy manage and secure 802.11 wireless networks As wired networks are increasingly replaced with 802.11n wireless connections enterprise users are shifting to centralized next generation architectures built around Wireless LAN Controllers WLC These networks will increasingly run business critical voice data and video applications that once required wired Ethernet In *Controller-Based Wireless LAN Fundamentals* three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design configure deploy manage and troubleshoot 802.11n networks with Cisco Unified Wireless Network CUWN technologies The authors first introduce the core principles components and advantages of next generation wireless networks built with Cisco offerings Drawing on their pioneering experience the authors present tips insights and best practices for network design and implementation as well as detailed configuration examples Next they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol LWAPP and Control and Provisioning of Wireless Access Points CAPWAP Fixed Mobile Convergence to WiFi Voice They also show how to take advantage of the CUWN's end to end security automatic configuration self healing and integrated management capabilities This book serves as a practical hands on reference for all network administrators designers and engineers through the entire project lifecycle and an authoritative learning tool for new wireless certification programs This is the only book that Fully covers the principles and components of next generation wireless networks built with Cisco WLCs and Cisco 802.11n AP Brings together real world tips insights and best practices for designing and implementing next generation wireless networks Presents start to finish configuration examples for common deployment scenarios Reflects the extensive first hand experience of Cisco experts Gain an operational and design level understanding of WLAN Controller WLC architectures related technologies and the problems they solve Understand 802.11n MIMO and protocols developed to support WLC architecture Use Cisco technologies to

enhance wireless network reliability resilience and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network s advanced security features Design wireless networks capable of serving as an enterprise s primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System WCS to plan deploy monitor troubleshoot and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for multicasting Quickly troubleshoot problems with Cisco controller based wireless LANs This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts protocols and management techniques Category Wireless Covers Cisco Controller Based Wireless LANs

**Designing A Wireless Network** Syngress,2001-07-22 Business is on the move mobile computing must keep up Innovative technology is making the communication between computers a cordless affair Mobile computing with laptops hand helds and mobile phones is increasing the demand for reliable and secure wireless networks Network engineers and consultants need to create and build cutting edge wireless networks in both the small business and multi million dollar corporations Designing Wireless Networks provides the necessary information on how to design and implement a wireless network Beginning with detailed descriptions of the various implementations and architectures of wireless technologies and moving to the step by step instructions on how to install and deploy a fixed wireless network this book will teach users with no previous wireless networking experience how to design and build their own wireless network based on the best practices of the Enhanced Services from Lucent Technologies Timely coverage of new technologies Communication without cables is the future of networking Advocates wireless networking solutions for any user regardless of location device or connection Written by Experts The authors are leading WAN authorities at Lucent Technologies No previous wireless experience is assumed however readers should have a basic understanding of networking and TCP IP protocols

**Deploying License-free Wireless Wide-area Networks** Jack Unger,2003 Best practices for planning and deployment of broadband WWANs Learn insider tips from an experienced wireless industry leader Understand the principles that underlie the operation of all wireless systems Learn how to provide profitable and reliable wireless Internet access Select the most effective equipment and antenna systems for your area Avoid common pitfalls encountered by new wireless network operators Minimize the effects of noise and interference on your network Enjoy the satisfaction of providing wireless Internet access to your community Practice the business principles used by successful wireless ISPs WISPs Use 802 11a 802 11b and 802 11g equipment more successfully in your own home office or outdoor environment Choose the right network architecture for your wireless network Conduct physical site surveys and radio frequency RF site surveys License free broadband wireless wide area networks WWANs provide fast deployment of low cost high speed last mile wireless Internet access License free wireless technology delivers these benefits without requiring the use of products or services provided by local telephone or cable companies WWANs enable Internet service providers ISPs and corporate IT managers to deploy their

own cost efficient broadband networks that deliver high speed access for buildings and areas where traditional wired connectivity is either completely unavailable or is cost prohibitive

*Deploying License Free Wireless Wide Area Networks* is the first book that provides complete real world start to finish design installation operation and support information for wireless ISPs and other organizations deploying outdoor wireless WANs including coverage of 802.11a, 802.11b, 802.11g and proprietary protocol networks. This vendor neutral book covers all brands of broadband wireless equipment and explains the principles upon which all wireless equipment is based. Inside you'll find step by step instructions and crystal clear explanations that walk you through initial planning stages and onto full wireless network operation. End of chapter review questions reinforce important concepts. Whether you're an IT director, ISP engineer, network architect or field technician, *Deploying License Free Wireless Wide Area Networks* is your essential reference. With practical in depth coverage of the real world challenges of outdoor license free wireless WAN deployment, this book provides a comprehensive vendor neutral guide to successful wireless network design and operation.

*Controller-based Wireless LAN Fundamentals* Jeff Smith, Jake Woodhams, Robert Marg, 2010

*Wireless Network Deployments* Rajamani Ganesh, Kaveh Pahlavan, 2005-12-27

An important aspect of wireless networks is the deployment of their infrastructure. In this book the Editors have invited a number of experts from industry to write on a variety of topics associated with deployment of digital wireless networks. The first part of the book consists of an overview of systems design and engineering integration, comparison of polarization and space diversity antenna systems and the performance of deploying smart antenna architectures in cellular and PCS networks. The second part addresses deployment of CDMA networks based on IS-95 standards. Here the authors discuss issues related to optimization of overlaid dual model CDMA networks, embedding microcells to improve hot spot capacity and mitigation of intermodulation distortion in handsets. Part III deals with deployment of TDMA based networks. The issues presented include developing hierarchical systems, reconfigurable transceivers and deploying the GSM frequency hopping feature for enhancing existing traffic capacity. The last part on Wireless Data Networks is comprised of issues related to the performance of GPRS systems deployed as an upgrade on current networks and deployment of wireless LANs. Critical issues for deploying an IEEE 802.11 based WLAN are examined.

*Wireless Network Deployments* provides practical engineering guidance for wireless and cellular engineers, researchers, technicians and managers working in second and third generation digital wireless networks.

*Deploying Wireless Networks* Andy Wilton, Tim Charity, 2008-09-18

Wireless operators will find this practical hands on guide to network deployment invaluable. Based on their own extensive experience, the authors describe an end to end network planning process to deliver the guaranteed Quality of Service (QoS) that enables today's wireless IP services such as VoIP, WWW and streaming video. With a focus on practical design, comprehensive examples are provided for GSM, GPRS, EDGE, UMTS, HSDPA, OFDM, Mesh, Wifi, Packet backhaul. Topics addressed include capacity, peak data rates, service latency, link budgets, lifecycle costs, network optimisation. The trade off between enhanced user experience and

operator cost is explored in the context of an enhanced business model Suitable for radio and core network planners designers optimizers and business development staff at operators and network equipment manufacturers the book s extensive references also make it a useful resource for graduate and postgraduate students

**802.11 Wireless LAN Fundamentals** Pejman Roshan,2004 *Wireless LANs Demystified* Jaidev Bhola,2002-06-12 Within the next few years 40% 50% of all companies will attempt to execute a wireless application strategy bringing the number of wireless data users to a whopping 36 million by 2003 Wireless LANs are now considered the best bet for wirelessly enabling business since the technology can be quickly and inexpensively deployed using existing infrastructure Shows how to wirelessly enable employees to work from any location within the office as well as home and outside locations Discusses the different wireless protocols and standards 802.11 Bluetooth WAP CDMA 3G etc Covers all the benefits of wireless LANs with specific cost reductions and support solutions Includes insider information about deploying Microsoft NET related wireless LAN applications

**Wireless Broadband Networks Handbook** John R. Vacca,2001 This book offers a first look at the emerging market of wireless broadband technology Contains step by step instructions for installation and troubleshooting plus handy advice on equipment vendors and service providers

**Deploying Wireless LANs** Gilbert Held,2002 Get mobility speed simplicity and lower cost of ownership from wireless LANs Find out about the new standards products and broadband options that make wireless networks as fast and reliable as wired ones You ll learn what they re good at how to operate them and what to buy in Deploying Wireless LANs Gil Held the author of over 20 top selling jargon free tech guides clearly and thoroughly explains how to plan and build wireless LANs capable of supporting mobile devices and applications You don t even need a background in radio frequency engineering to understand How to make your 802.11 LAN fully compliant with 802.3 and Bluetooth Common access points and how they re changing LAN options Basic transmission troubleshooting techniques More

**Implementing 802.11, 802.16, and 802.20 Wireless Networks** Ron Olexa,2004-08-04 This is not another book about installing a home or hobby Wi Fi system Instead this book shows you how to plan design install and operate WLAN systems in businesses institutions and public settings such as libraries and hotels In other words this book is packed with serious information for serious professionals responsible for implementing robust high performance WLANs covering areas as small as a coffee shop or as large as entire communities Ron Olexa provides a solid foundation in RF wireless theory as it applies to WLANs His detailed thorough coverage of propagation at GHz frequencies helps you understand the mysteries of WLAN coverage such as how it can change from season to season due to foliage You ll also learn about antenna radiation patterns and gain so you can design you WLAN to have the coverage you need without causing interference to or suffering interference from other WLANs Covers the widely used 802.11 family as well as the new 802.16 and 802.20 standards Focuses on big commercial network implementations such as in public buildings and businesses Author has over 25 years of experience with cellular systems and wireless networks

**Design and Analysis of Wireless**



**Networks** Yi Pan, Yang Xiao, 2005 Summary A compilation of articles that reviews the current design methodology and analytical models of wireless networks

**Fixed Broadband Wireless System Design** Harry R. Anderson, 2003-03-14 Fixed broadband networks can provide far higher data rates and capacity than the currently envisioned 3G and 4G mobile cellular systems Achieving higher data rates is due to the unique technical properties of fixed systems in particular the use of high gain and adaptive antennas wide frequency bands dynamic data rate and channel resource allocation and advanced multiple access techniques Fixed Broadband Wireless System Design is a comprehensive presentation of the engineering principles advanced engineering techniques and practical design methods for planning and deploying fixed wireless systems including Point to point LOS and NLOS network design Point to point microwave link design including active and passive repeaters Consecutive point and mesh network planning Advanced empirical and physical propagation modeling including ray tracing Detailed microwave fading models for multipath and rain NLOS indoor and outdoor propagation and fading models Propagation environment models including terrain morphology buildings and atmospheric effects Novel mixed application packet traffic modeling for dimensioning network capacity Narrow beam wide beam and adaptive smart antennas MIMO systems and space time coding Channel planning including fixed and dynamic channel assignment and dynamic packet assignment IEEE 802.11b and 802.11a WLAN system design Free space optic FSO link design At present there are no titles available that provide such a concise presentation of the wide variety of systems frequency bands multiple access techniques and other factors that distinguish fixed wireless systems from mobile wireless systems Fixed Broadband Wireless System Design is essential reading for design system and RF engineers involved in the design and deployment of fixed broadband wireless systems fixed wireless equipment vendors and academics and postgraduate students in the field

**Wireless Network Design** Jeff Kennington, Eli Olinick, Dinesh Rajan, 2010-11-10 This book surveys state of the art optimization modeling for design analysis and management of wireless networks such as cellular and wireless local area networks LANs and the services they deliver The past two decades have seen a tremendous growth in the deployment and use of wireless networks The current generation wireless systems can provide mobile users with high speed data services at rates substantially higher than those of the previous generation As a result the demand for mobile information services with high reliability fast response times and ubiquitous connectivity continues to increase rapidly The optimization of system performance has become critically important both in terms of practical utility and commercial viability and presents a rich area for research In the editors previous work on traditional wired networks we have observed that designing low cost survivable telecommunication networks involves extremely complicated processes Commercial products available to help with this task typically have been based on simulation and or proprietary heuristics As demonstrated in this book however mathematical programming deserves a prominent place in the designer's toolkit Convenient modeling languages and powerful optimization solvers have greatly facilitated the implementation of mathematical programming theory into the

practice of commercial network design. These points are equally relevant and applicable in today's world of wireless network technology and design. But there are new issues as well: many wireless network design decisions such as routing and facility element location must be dealt with in innovative ways that are unique and distinct from wired fiber optic networks. The book specifically treats the recent research and the use of modeling languages and network optimization techniques that are playing particularly important and distinctive roles in the wireless domain. *Developments in Wireless Network Prototyping, Design, and Deployment* Mohammad A. Matin, 2012. This book highlights the current design issues in wireless networks, informing scholars and practitioners about advanced prototyping innovations in this field.

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