



## **Designing and Deploying 802.11n Wireless Networks**

Gain a practical understanding of the underlying concepts of the 802.11n standard and the methodologies for completing a successful wireless network installation

# Designing And Deploying 802 11n Wireless Networks

**G Orfield**



## **Designing And Deploying 802 11n Wireless Networks:**

*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 traffic

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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.

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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

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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      **Security, Design, and Architecture for Broadband and Wireless Network Technologies** Chilamkurti,

Naveen,2013-04-30 While wireless technologies continue to provide an array of new challenges and multi domain applications for business processes and solutions there still remains to be a comprehensive understanding of its various dimensions and environments Security Design and Architecture for Broadband and Wireless Network Technologies provides a discussion on the latest research achievements in wireless networks and broadband technology Highlighting new trends applications developments and standards this book is essential for next generation researchers and practitioners in the ICT field      **Designing and Deploying 802.11 Wireless Networks** James T. Geier,2015      **Wi-Fi Integrated Systems**

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