

# Deploying Wireless LANs

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*Concepts, Operation, and Utilization* ■

# Deploying Wireless Lans

**Krishna Sankar**



## **Deploying Wireless Lans:**

*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 *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 **Deploying Voice Over Wireless LANs** James T. Geier, 2007 Master the design installation management and troubleshooting of a voice network over a wireless LAN from

industry leader Jim Geier      **Designing and Deploying 802.11n Wireless Networks** James T. Geier, 2010      **A Field Guide to Wireless LANs** Thomas Maufer, 2004 Finally an 802.11 deployment guide for business and home use that demystifies the alphabet soup of IEEE standards and explains the features and benefits of each with regards to speeds and feeds      **802.11 Wireless LAN Fundamentals** Pejman Roshan, Jonathan Leary, 2004 Master the basics in designing building and managing a Cisco Aironet WLAN Master the basics of Wireless LANs with this concise design and deployment guide      **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      **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 Implementing Successful Wireless LANs Timothy Zimmerman,2004-11 Successful wireless LAN implementations provide many benefits to enterprises that deploy them to reach mobile workers This success requires more than understanding of the IEEE 802 11 standard Implementing Successful Wireless LANs provides a comprehensive approach that is easy to understand It lays out a wireless project beginning with the business aspects of calculating a return on investment to get started as well as managing and maintaining network availability to mobile workers once the access points have been installed The author s front line experience in designing and managing wireless local area networks makes this valuable resource for Understanding radio frequency fundamentals Being able to understand differing

wireless coverage and usage models for vendors of standards based access points Providing a methodology and report template for doing a wireless site survey that can be used as a guideline for third party services Providing a best practices recommendation for wireless security Defining device management and providing best practices recommendation Delivering a return on investment use scenario that encompasses many of the issues needed to get your project approved Providing a view of the next step of wireless technology

**Emerging Technologies in Wireless LANs** Benny Bing, 2008 Provides the key practical considerations for deploying wireless LANs and a solid understanding of the emerging technologies

**Improving the Performance of Wireless LANs** Nurul Sarkar, 2014-01-08 While there are countless books on wireless networks few actually quantify the key performance limiting factors of wireless local area networks WLANs and describe various methods for improving WLAN performance Fulfilling these needs Improving the Performance of Wireless LANs A Practical Guide provides both theoretical background and empirical results for the optimum planning and deployment of high performance WLAN systems in different residential and commercial buildings Useful to students faculties researchers engineers and network developers this must have book not only explains the fundamentals of WLAN systems including WLAN features and standards but also Supplies strategic guidelines for WLAN system design modeling and performance evaluation Includes radio propagation and site measurements as well as simulations for various network design scenarios Discusses environmental effects on WLAN performance protocol redesign for routing and MAC and traffic distribution Contains numerous illustrations and examples plus chapter summaries review questions reading lists mini projects an extensive glossary and a list of acronyms Examines emerging and future network technologies such as next generation Wi Fi 802 11ac very high throughput Wi Fi 802 11ad wireless mesh networking 802 11s emergency QoS 802 11u and vehicle to vehicle communications 802 11p Improving the Performance of Wireless LANs A Practical Guide makes the teaching learning and researching of advanced wireless network design and performance a more active process by using practical tools and exercises to add life to this highly technical subject

**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

*The Business Case for Enterprise-class Wireless LANs* H. David Castaneda, Oisín Mac Alasdair, Christopher A. L. Vinckier, 2006 A comprehensive guide to analyzing the business rationale for WLANs Evaluate the business rationale behind the deployment of WLANs including return on investment ROI net present value payback period and total cost of ownership Develop a robust execution plan to deploy and operate the WLAN Understand the high-level technical issues of deploying and managing your WLAN from a business decision maker's perspective Maximize the positive impact of supplementary and complementary services such as voice video and guest WLAN access Identify potential security threats and develop strategies to mitigate attacks Learn methodological and technical best practices from WLAN deployment case studies featuring real-world enterprise-class businesses and institutions Gather information easily by referring to quick reference sheets and appendixes covering an antenna overview a high-level sample project plan checklists and flowcharts Businesses today are increasingly adopting wireless LANs WLANs as a primary data transport mechanism To determine when and how to effectively deploy WLANs business managers project managers and IT executives need a clear holistic evaluation of the business benefits and risks behind this complex technology solution *The Business Case for Enterprise Class Wireless LANs* helps you make the right decisions by explaining the business value and cost of investing in a WLAN from security and architecture to deployment and application Using a lifecycle perspective this guide covers the value proposition

cost justification and alignment of security design and operational components within the business Written in an approachable style *The Business Case for Enterprise Class Wireless LANs* provides a baseline analysis of WLAN technologies for a large scale deployment and includes concise real world case studies with checklists and flowcharts that you can adapt for your needs By recognizing the obstacles and advantages of implementing a WLAN from a strategic and justified business perspective you can apply the economic benefits to your organization and ensure a timely and efficient deployment of your organization s WLAN This volume is in the Network Business Series offered by Cisco Press Books in this series provide IT executives decision makers and networking professionals with pertinent information about today s most important technologies and business strategies Cisco Wireless LAN Security Krishna Sankar,2005 Secure a wireless Local Area Network with guidance from Cisco Systems experts Showing how to use tools such as security checklists design templates and other resources to ensure WLAN security this book illustrates security basics standards and vulnerabilities and provides examples of architecture design and best practices *Deploying voice over wireless LANs* Jim Geier,2007 **Mobile Ad-hoc and Sensor Networks** Hongke Zhang,2007-11-19 This book constitutes the refereed proceedings of the Third International Conference on Mobile Ad hoc and Sensor Networks MSN 2007 held in Beijing China in December 2007 The papers address all current issues in mobile ad hoc and sensor networks and are organized in topical sections on routing network protocols energy efficiency data processing self organization and synchronization deployment and application as well as security **Network World** ,2003-04-07 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce **Operations Support Systems: Solutions and Strategies for the Emerging Network** International Engineering Consortium,2003-09-15 Real 802.11 Security Jon Edney,William A. Arbaugh,2004 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 **Business Data Communications** William Stallings,2009 Business Data Communications 6 e covers the fundamentals of data communications networking distributed applications and network management and security Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff structuring his text around requirements ingredients and applications All of the material has been updated for the latest technologies and developments in the field including specifications of WiFi IEEE 802 11 wireless LANs including 802 11n IP performance metrics and service level agreements SLAs Gigabit Ethernet and 10 Gbps Ethernet standards New unified communications concepts expanded enhanced security material New online animations illustrate key



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