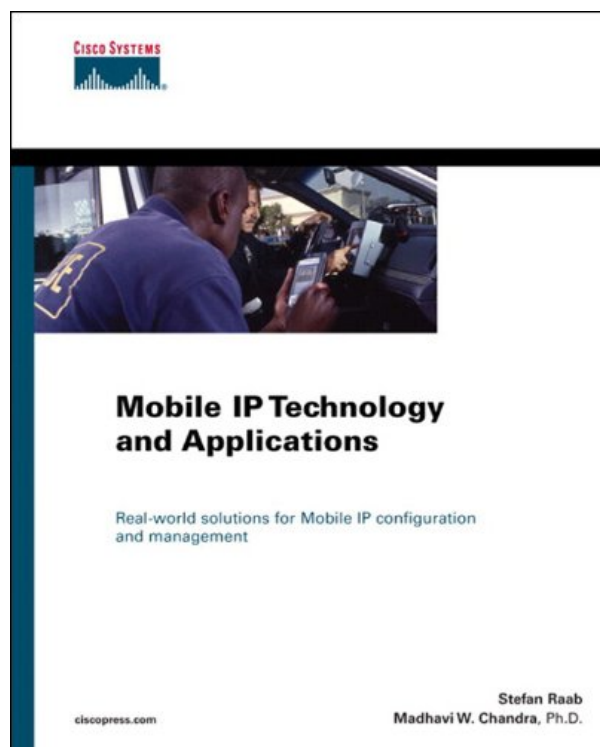


MOBILE IP TECHNOLOGY AND APPLICATIONS (NETWORKING TECHNOLOGY) BY STEFAN RAAB, MADHAVI CHANDRA



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Mobile IP Technology and Applications

Real-world solutions for Mobile IP configuration
and management

ciscopress.com

Stefan Raab
Madhavi W. Chandra, Ph.D.

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About the Author

Stefan Raab joined Cisco Systems in January 2001 from Nextel Communications as a technical leader and deployment engineer for the IP Mobility Group, IOS Technologies Division (ITD). He has more than nine years of experience with IP mobility deployments and is an expert on real-life applications of the technology.

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MOBILE IP TECHNOLOGY AND APPLICATIONS (NETWORKING TECHNOLOGY) BY STEFAN RAAB, MADHAVI CHANDRA PDF

Real-world solutions for Cisco IOS® Mobile IP configuration, troubleshooting, and management

- Understand the concept of mobility and the requirements of mobility protocols
- Learn necessary components of a Mobile IP network, including features, functions, and message flows
- Examine security concepts related to Mobile IP, including protocol authentication and dynamic keying
- Evaluate high availability solutions and integration with AAA servers in campus networks
- Explore the features of metro mobility, including reverse tunneling, firewall, NAT traversal, and integration with VPN technologies
- Configure IOS Mobile IP networks, including integration topics such as redundancy, QoS, and VPN
- Manage the Mobile IP infrastructure, including Home Address management, scalability considerations, and network management
- Take a look at the future of Mobile IP, including Layer 2 integration challenges, Mobile IPv6, unstructured mobility, and mobile ad-hoc networking

Two of the world's most powerful technology trends, the Internet and mobile communications, are redefining how and when people access information. With the majority of information and new services being deployed over IP, the use of devices such as cellular phones, PDAs, and laptops for accessing data networks is pushing the need for "always on" IP connectivity. The evolution of mobile computing points to a coming together of the best of desktop computing and cellular communications—the predictability and "always connected" experience of the desktop combined with the ease of use and mobility of the cell phone.

One challenge to mobile data communication is moving data across different networks. The solution to this problem is a standards-based protocol: Mobile IP. Mobile IP is an open standard that allows users to keep the same IP address, stay connected, and maintain ongoing applications while roaming between IP networks.

Mobile IP Technology and Applications is the first book to address the practical application of Mobile IP in real-world environments. Cisco IOS® Mobile IP configuration, troubleshooting, and management are covered in depth and supported by real-world examples. Mobility solutions addressed in this book include enterprise campus wireless LANs and metropolitan mobility for both individual devices and whole networks. Each example is designed to teach configuration, management, and troubleshooting in a manner that is directly applicable to common mobility needs.

Whether you are looking for an introduction to IP mobility or detailed examples of Mobile IP technology in action, Mobile IP Technology and Applications is your complete resource for reaping the benefits that secure, reliable mobile communications have to offer.

"IP Mobility provides the capability not only for me to connect to the world at large, but for it to find and connect to me."

—Fred Baker, Cisco Fellow, Cisco Systems, Inc.

This book is part of the Cisco Press® Networking Technology Series, which offers networking professionals valuable information for constructing efficient networks, understanding emerging technologies, and building successful networking careers.

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Most helpful customer reviews

3 of 3 people found the following review helpful.

Mobile IP theory

By Bugs76

My approach to this book has been dictated from curiosity for this new technology more than for the implementation side of it. Mobile IP is a field where I have very little knowledge of this technology and needed to gain some background on it. My point of view will therefore ignore the configuration examples used in the book.

The authors did a great job in writing the book in a very simple English and using an informal style, which helps the reading by not making the text too tedious.

The first couple of chapters gave me a good overview of the basic principles of Mobile IP. The illustrations used in the book are very helpful to better explain the concepts described in the text. Some were a little too confusing because of all the acronyms and several times I had to give a quick glance at the pictures to resume myself the situation. The third chapter goes on with security issues that come back in almost all of the rest of the book. The fourth chapter goes in detail on how to set up a lab environment to apply the concepts explained in the rest of the book.

The following chapters show some basic case studies of mobile IP applications: Campus Mobility, Metro Mobility and Cisco Mobile Networks. These chapters require a good knowledge of tunneling, VPNs, routing and wireless concepts.

The last two chapters were more interesting for me as chapter 8 talked about scalability of the mobile IP solutions and the differences between different forms of IP addressing. The last part of the chapter shows

some basic troubleshooting techniques. Chapter 9 called "A look ahead" is very valuable because it describes the various techniques discussed to bring the mobile IP technology to meet the IPv6 standard and what the idea of Cisco is in this area.

The book is thought as a companion book for studying and has the usual end-of-chapter questions that help the reader to check his understanding of the last things learned. The answers given in the Appendix A to all the questions are very explicative and help to review the entire concepts seen in the book.

A good book that has given me the basic understanding of the theory of Mobile IP. I suggest it both for those who want to have a look at Mobile IP and also to those who want a deeper understanding of the topic. A real-world case study would have given this book a top class touch.

1 of 1 people found the following review helpful.

Mobility vs. Nomadcity

By Penny Jakes

Mobile IP Technology and Applications (ISBN 158705132x) is an introduction to IP mobility using an open-standard protocol called Mobile IP. There is a distinction made between true mobility and just "traveling" between different connections. This protocol enables users to keep their IP, stay connected, and allow others to find them while roaming between networks and equipment. In addition, detailed examples using real-world situations illustrate the applications of this technology. Advanced topics include reverse tunneling, firewalls, NAT, VPNs, authentication, scalability, and QoS.

Stefan Raab and Madhavi W. Chandra, authors, share their experience designing and developing network solutions using Mobile IP. Their credentials are impressive and give the learner confidence in the information they are imparting.

This book is designed for network administrators who are familiar with IP routing, protocols, applications, and Cisco IOS. Even though the real-world situations are generic, the configuration, troubleshooting, and management are explained using Cisco IOS. IT personnel who want to implement mobile technology can definitely benefit from this book as it explains the basics thoroughly before giving detailed examples and explanations. The index is complete; there is not a glossary. At the end of each chapter are review questions, so this book could easily be used in a classroom or in self-study. There are two appendices: one contains the answers to the chapter questions and the other contains the SNMP (Simple Network Management Protocol) MIB (Management Information Base) objects supported by Cisco IOS Mobile IP.

Raab and Chandra organized their book into nine chapters, each of which is a facet of Mobile IP. After an introduction of concepts and requirements of mobility and wireless networking, a detailed discussion of the Mobile IP protocol includes features, functions, and components. As with any network today, there are security concerns with protocol authentication and dynamic keying. The material presented in these early chapters is used in the scenarios in following chapters.

Mobility solution examples are provided for basic topologies, client-based Mobile IP, high availability, AAA servers, reverse tunneling, firewall and NAT traversal, and integration with VPN technologies. Basic configuration is introduced which leads into integration topics of redundancy, QoS, and VPN. The management and operation discussion leads to Home Address, scalability, and server management.

Future trends and uses for Mobile IP conclude the topics of this book: layer 2 integration challenges, Mobile IPv6, unstructured mobility, and ad hoc networking.

This book follows the linear, logical model of textbook organization that progresses from basic facts, to advanced topics, and concludes with end-to-end solutions. The authors feel that this book also enables someone to jump in at any chapter and navigate the subject by features and environment in which they are interested. They have created cross-references to assist readers who do not want to use the book in linear form. This works well for users with previous knowledge of the subject.

The examples, figures, and illustrations are clear, concise, and designed to help learners understand a complex subject. Cisco IOS knowledge is prerequisite, although the authors' expertise and explanations give logic behind implementation and options.

This book deserves a rating of 5 (highest) and is recommended for IT personnel wanting to move into true "mobility."

1 of 1 people found the following review helpful.

Peter L.

By Old Engineer

Good book, strong coverage of Mobile IP. I definitely recommend this book to someone who is interested in Mobile IP basics, or who is planning to deploy a mobile IP solution. The authors build from the basics quite well. The first couple chapters effectively present the basics of Mobile IP. As should be expected, a basic routing knowledge is assumed on the part of the reader. This is certainly appropriate for a topic such as mobile IP. The background on wireless technologies provides enough detail to support the subsequent discussion, but does not become a pure tutorial on wireless infrastructure. The illustrations and examples are straightforward, and add value to the discussion.

The organization of the chapters allows the experienced reader to skip forward to an appropriate chapter. The discussion on the lab configuration is particularly helpful. It saves much of the time we often spend defining the lab environment to be practical and yet reflect enough of the real world to be useful. The evolution to larger, real world class environments is certainly of value. The insight to actual deployment of a solution helps to bring lab data into context. The examples and considerations in the latter part of the book, chapters 5-8, address many of the issues actual deployments may encounter. The ability to address as many of these issues during planning, instead of discovering them during the initial deployment certainly can make enabling a mobile solution less challenging.

Chapter 9 was of specific interest because we have a pending migration to IPv6. Any amount of insight into IPv6 world is of value.

On the negative side, the title is slightly misleading; the "Applications" referred to in the title is the application of mobile IP, vice applications that run over mobile IP. The subtitle is to the point "Real-world solutions for Mobile IP configuration and management."

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