



# IP Address Management Principles and Practice

By Timothy Rooney

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## IP Address Management Principles and Practice By Timothy Rooney

This book will be the first covering the subject of IP address management (IPAM). The practice of IPAM includes the application of network management disciplines to IP address space and associated network services, namely DHCP (Dynamic Host Configuration Protocol) and DNS (Domain Name System). The consequence of inaccurately configuring DHCP is that end users may not be able to obtain IP addresses to access the network. Without proper DNS configuration, usability of the network will greatly suffer as the name-to-address lookup process may fail. Imagine having to navigate to a website or send an email or an instant message by IP address instead of by name! It's equally important that these DHCP and DNS configurations be based on a common IP address plan, which maps out the IP address hierarchy, subnets, address pools, and domains.

IPAM applies management disciplines to these core services, including configuration, change control, auditing, reporting and so on, and they are necessary given the absolute requirement for properly managing IP space and DHCP and DNS servers. The linkages among an IP address plan, DHCP server configuration and DNS server configuration are inseparable; a change of an IP address will affect DNS information and perhaps DHCP as well. These functions provide the foundation for today's converged services IP networks, so they need to be managed using a rigorous approach.

Today, there is no single book that covers the management of these linkages and services they provide; *IP Address Management Principles and Practice* will fill that gap. While several books are available for leading vendors' DHCP and DNS services implementations, few exist for IP address planning, and none exist that unifies these three topics.

To obtain a free copy of the IPAM Configuration Guide please send an email to:

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## **Editorial Review**

### Review

"The book aims to be a must-to-have reference for every network engineer. Whenever one encounters a networking issue (not only basic), an answer to the question or the information in which RFC the answer is located can be found." (IEEE Communications Magazine, 1 August 2011)

"This guide to Internet Protocol address management (IPAM) presents a practical, technical overview of each part of the IP environment and provides advice on best practices for creating an effective, integrated management plan . . . the work includes numerous illustrations and code examples and would be appropriate for advanced computer science students as well as network administrators and designers. Rooney is an IPAM expert and senior director for an IPAM consulting firm." (Booknews, 1 April 2011)

"Today, there is no single book that covers the management of these linkages and services they provide; IP Address Management Principles and Practice will fill that gap. While several books are available for leading vendors' DHCP and DNS services implementations, few exist for IP address planning, and none exist that unifies these three topics." (Security @ ITBusiness Net.com, 28 February 2011)

### From the Back Cover

A hands-on resource for rigorous, state-of-the-art management of today's IP networks

Effective IP address management (IPAM) is a key ingredient in an enterprise or service provider IP network management strategy. The practice entails the application of network management disciplines to Internet Protocol (IP) address space and associated network services, namely Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS).

As a natural follow-up to the author's previous book, *Introduction to IP Address Management*, this resource uniquely unifies all three foundational IP address management technologies, fully addressing their interrelationships and their cohesive management. It also describes the relevant protocols, configuration examples for the market-leading reference implementations from the Internet Systems Consortium (ISC), and techniques that can be employed to structure, monitor, secure, and manage them.

The first part of the book provides a detailed overview of IPv4, IPv6, and IP allocation and subnetting techniques. In the second, DHCP for IPv4 and IPv6 is reviewed, with explanations of applications that rely on DHCP (such as VoIP device provisioning, broadband access provisioning, and PXE client initialization), DHCP server deployment strategies, and DHCP and relevant network access security. The third part reviews the DNS protocol, DNS applications (such as name resolution, services location, ENUM, anti-spam techniques via black/white listing, and Sender ID), deployment strategies and associated configurations, and security.

Finally, the text brings together the preceding parts, discussing techniques for cohesively managing IP address space, including impacts to DHCP and DNS. Everyday IP address management functions are described—including IP address allocation and assignment, renumbering, inventory assurance, fault management, performance monitoring, and disaster recovery—as are coexistence strategies.

IP Address Management Principles and Practice utilizes realistic scenarios throughout to further enhance the

learning process. It will educate readers responsible for managing IP address space and DHCP and DNS server configurations, such as IP network planners, engineers, and managers, including those who need to deploy IPv6 networks. It is also ideal for those responsible for managing an IP network with over 5,000 IP nodes, several DNS or DHCP servers, mixed DHCP and DNS vendor deployments, or IPv4 and IPv6.

#### About the Author

**Timothy Rooney** has worked with IP technologies in various capacities over the last sixteen years, including systems engineering and development. He has an extensive background not only in IP, but also in telecommunications, wireless services, and software, having worked at Bell Laboratories, AT&T Wireless, Lucent Technologies, and BT. In his current role as Director of Product Management with BT Diamond IP, Rooney is responsible for the overall BT Diamond IP product life cycle, managing product features and releases, as well as supporting sales and marketing.

#### Users Review

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##### **Allen Scheiber:**

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