IP Multicast, Volume I: Cisco IP Multicast Networking (Networking Technology)

By Josh Loveless, Ray Blair, Arvind Durai

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IP Multicast Volume I: Cisco IP Multicast Networking

Design, deploy, and operate modern Cisco IP multicast networks

IP Multicast, Volume I thoroughly covers basic IP multicast principles and routing techniques for building and operating enterprise and service provider networks to support applications ranging from videoconferencing to data replication.

After briefly reviewing data communication in IP networks, the authors thoroughly explain network access, Layer 2 and Layer 3 multicast, and protocol independent multicast (PIM). Building on these essentials, they introduce multicast scoping, explain IPv6 multicast, and offer practical guidance for IP multicast design, operation, and troubleshooting. Key concepts and techniques are illuminated through real-world network examples and detailed diagrams.

Reflecting extensive experience working with Cisco customers, the authors offer pragmatic discussions of common features, design approaches, deployment models, and field practices. You'll find everything from specific commands to start-to-finish methodologies: all you need to deliver and optimize any IP multicast solution.

IP Multicast, Volume I is a valuable resource for network engineers, architects, operations technicians, consultants, security professionals, and collaboration specialists. Network managers and administrators will find the implementation case study and feature explanations especially useful.

·   Review IP multicasting applications and what makes multicast unique
·   Understand IP multicast at the access layer, from layered encapsulation to switching multicast frames
·   Work with Layer 2 switching domains, IPv4 group addresses, and MAC address maps
·   Utilize Layer 3 multicast hosts and understand each PIM mode

- · Implement basic forwarding trees and rendezvous points
- · Compare multicast forwarding modes: ASM, SSM, and PIM Bidir
- · Plan and properly scope basic multicast networks
- · Choose your best approach to forwarding replication
- · Apply best practices for security and resiliency
- · Understand unique IPv6 deployment issues
- · Efficiently administer and troubleshoot your IP multicast network

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

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Editorial Review

About the Author

Josh Loveless, CCIE No. 16638, is a customer solutions architect for Cisco Systems. He has been with Cisco for four years, providing architecture and support services for Tier 1 service providers as well as for many of Cisco's largest enterprise customers, specializing in large-scale routing and switching designs. Currently, Josh is helping Cisco's customers in the defense and intelligence industries meet the challenges of an ever-changing technology landscape, designing secure automated networks with advanced capabilities, including IP multicast. Prior to joining Cisco, he spent 15 years working for large service providers and enterprises as both an engineer and an architect, as well as providing training and architecture services to some of Cisco's trusted partners. Josh maintains two CCIE certifications, Routing and Switching and Service Provider.

Ray Blair, CCIE No. 7050, is a distinguished systems engineer and has been with Cisco Systems since 1999. He uses his years of experience to align technology solutions with business needs, insuring customer success. Ray started his career in 1988, designing industrial monitoring and communication systems. Since that time, he has been involved with server/database administration and the design, implementation, and management of networks that included networking technologies from ATM to ZMODEM. He maintains three CCIE certifications in Routing and Switching, Security, and Service Provider (No. 7050), is also a Certified Information Systems Security Professional (CISSP), and a Certified Business Architect (No. 00298). Ray is coauthor of two Cisco Press books, *Cisco Secure Firewall Services Module* and *Tcl Scripting for Cisco IOS*. He speaks at many industry events and is a Cisco Live distinguished speaker.

Arvind Durai, CCIE No. 7016, is a director of solution integration for Cisco Advanced Services. His primary responsibility in the past 17 years has been in supporting major Cisco customers in the enterprise sector, including financial, retail, manufacturing, ecommerce, state government, utility (smart grid networks), and healthcare sectors. Some of his focuses have been on security, multicast, network virtualization, and data center, and he has authored several white papers and design guides on various technologies. He has been involved in multicast designs for several enterprise customers in different verticals. He is also one of the contributors in providing the framework for Advanced Services Multicast Audit tool that helps customers assess their operational multicast network to Industry best practices.

Arvind maintains two CCIE certifications: Routing and Switching and Security and also is a Certified Business Architect. He holds a Bachelor of Science degree in Electronics and Communication, a Master's degree in Electrical Engineering (MS), and a Master's degree in Business Administration (MBA). He is a coauthor of three Cisco Press books: *Cisco Secure Firewall Services Module*, *Virtual Routing in the Cloud*, and *TcL Scripting for Cisco IOS*. He has coauthored IEEE WAN smart grid architecture and presented in many industry forums, such as IEEE and Cisco Live.

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