



# Advanced QoS for Multi-Service IP/MPLS Networks

By Ramji Balakrishnan

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*Advanced QoS for Multi-Service IP/MPLS Networks* is the definitive guide to Quality of Service (QoS), with comprehensive information about its features and benefits. Find a solid theoretical and practical overview of how QoS can be implemented to reach the business objectives defined for an IP/MPLS network. Topics include standard QoS models for IP/MPLS networks, essential QoS features, forwarding classes and queuing priorities, buffer management, multipoint shared queuing, hierarchical scheduling, and rate limiting. This book will enable you to create a solid QoS architecture/design, which is mandatory for prioritizing services throughout the network.

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### Editorial Review

From the Back Cover

This essential guide helps you understand the features and benefits of service-aware hierarchical Quality of Service (QoS) and how to leverage QoS in designing and implementing leading-edge IP networks. The author's vast experience provides a solid theoretical and practical overview of how QoS can be implemented to reach the business objectives defined for an IP/MPLS network.

The knowledge acquired from this book will enable the network professional to create a solid QoS architecture/design, which is mandatory to prioritize services throughout the network. The book is a reference I will return to again and again."

—**Brent Conrad**, Senior Network Architect, Bell Canada

This book educates readers on the detail operation of Quality of Service through IP/MPLS networks for converged services. I highly recommend it for network designers and test engineers."

—**Dean Lee**, Senior Product Manager, IXIA

About the Author

**Ram Balakrishnan**, a senior Network Design Architect with Alcatel-Lucent, is a renowned QoS and Triple-Play expert and educator. Leveraging his IP/MPLS knowledge in addition to his QoS expertise, Ram has led service provider and enterprise initiatives globally to design and implement converged multi-service networks. He holds patents related to intelligent routing algorithms. A frequent contributor to the *Alcatel-Lucent Telecommunications Review*, Ram has over 10 years experience in the telecommunications industry. He holds a BE degree in Electronics and Instrumentation from Annamalai University, India, and MS degrees in Engineering and Computer Science from the University of Saskatchewan, Canada. Ram is also a certified Alcatel-Lucent Service Routing Architect (Alcatel-Lucent SRA No. 10).

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