

IP Quality of Service

By Srinivas Raju Vegesna

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The complete resource for understanding and deploying IP quality of service for Cisco networks

Learn to deliver and deploy IP QoS and MPLS-based traffic engineering by understanding:

- QoS fundamentals and the need for IP QoS
- The Differentiated Services QoS architecture and its enabling QoS functionality
- The Integrated Services QoS model and its enabling QoS functions
- ATM, Frame Relay, and IEEE 802.1p/802.1Q QoS technologies and how they work with IP QoS
- MPLS and MPLS VPN QoS and how they work with IP QoS
- MPLS traffic engineering
- Routing policies, general IP QoS functions, and other miscellaneous QoS information

Quality-of-service (QoS) technologies provide networks with greater reliability in delivering applications, as well as control over access, delay, loss, content quality, and bandwidth. IP QoS functions are crucial in today's scalable IP networks. These networks are designed to deliver reliable and differentiated Internet services by enabling network operators to control network resources and use. Network planners, designers, and engineers need a thorough understanding of QoS concepts and features to enable their networks to run at maximum efficiency and to deliver the new generation of time-critical multimedia and voice applications.

IP Quality of Service serves as an essential resource and design guide for anyone planning to deploy QoS services in Cisco networks. Author Srinivas Vegesna provides complete coverage of Cisco IP QoS features and functions, including case studies and configuration examples. The emphasis is on real-world application-going beyond conceptual explanations to teach actual deployment.

IP Quality of Service is written for internetworking professionals who are responsible for designing and maintaining IP services for corporate intranets and for service provider network infrastructures. If you are a network engineer, architect, manager, planner, or operator who has a rudimentary knowledge of

QoS technologies, this book will provide you with practical insights on what you need to consider when designing and implementing various degrees of QoS in the network. Because incorporating some measure of QoS is an integral part of any network design process, *IP Quality of Service* applies to all IP networks-corporate intranets, service provider networks, and the Internet.

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IP Quality of Service By Srinivas Raju Vegesna Bibliography

- Sales Rank: #3372855 in Books
- Brand: Brand: Cisco Press
- Published on: 2001-02-02
- Original language: English
- Number of items: 1
- Dimensions: 9.44" h x 1.05" w x 7.60" l, 1.78 pounds

- Binding: Hardcover
- 368 pages

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Editorial Review

From the Inside Flap
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From the Back Cover

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About the Author

Srinivas Vegesna, CCIE(r) No. 1399, is a manager in the Service Provider Advanced Consulting Services program at Cisco Systems. His focus is general IP networking, with a special focus on IP routing protocols and IP QoS. In his six years at Cisco, Srinivas has worked with several large service provider and enterprise customers in designing, implementing, and troubleshooting large-scale IP networks. Srinivas holds a master's degree in electrical engineering from Arizona State University.

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