

For Immediate Release

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ADVANCED QoS FOR MULTI-SERVICE IP/MPLS NETWORKS

In the face of relentless competition, Internet and telecommunications service providers are turning to a new wave of next generation IP-based services to attract and retain customers, as well as increase revenue. A key factor for any provider's success is service reliability, known as Quality of Service (QoS). QoS ensures that traffic flows can be prioritized and controlled across the network and that each service has the reliability and resources to meet and exceed customer expectations. Alcatel-Lucent's leading IP/MPLS/Carrier Ethernet portfolio has been adopted by 200+ service providers in more than 90 countries, including massive multi-year projects at Tier 1 operators around the world. Now, Ram Balakrishnan, [a renowned QoS expert and senior network design engineer with Alcatel-Lucent](#), has authored **ADVANCED QoS FOR MULTI-SERVICE IP/MPLS NETWORKS** (Wiley Publishing, Inc; \$59.99; June 2008), the industry's first guide to QoS for service routing and a must read for any network engineer. The book provides readers with both a theoretical and practical overview of how QoS can be implemented to reach the business objectives defined for an IP/MPLS network.

With the endless variety of services being deployed on networks today, the explosive traffic volumes, and the critical nature of reliability, QoS concepts and their application are a core component of network design and operations. Alcatel-Lucent's **ADVANCED QoS FOR MULTI-SERVICE IP/MPLS NETWORKS** provides readers with both a theoretical and practical overview of how QoS can be implemented to reach the business objectives defined for an IP/MPLS network. The book covers the key factors to the success of implementing and running an IP/MPLS based platform. Topics include:

- Standard QoS Models for IP/MPLS Networks
- Essential QoS Features
- Forwarding Classes and Queuing Priorities
- Buffer Management
- Multipoint Shared Queuing
- Hierarchical Scheduling
- Rate Limiting

"This book is much more than just Alcatel-Lucent QoS framework on the 7x50 product line as it takes the reader through a holistic QoS journey. It is useful for both the network novice and expert alike because it ties QoS concepts to the 7x50 product functionality. 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," said Brent Conrad, B.Sc.(Chem), B.Sc.(CS), Bell Canada Technology Development.

“With the dual objectives of providing cost-effective high bandwidth services and meeting stringent customer service guarantees, hierarchical service-based QoS has become invaluable for today's service providers,” said Jonathan Newton, Senior Architect, Cable&Wireless Europe, Asia & US.

“The concept of a single IP/MPLS multiservice network provides huge economical benefits for service providers in reducing CAPEX and OPEX,” said Dean Lee, Senior Product Manager, IXIA. “With multiservice networks, the ability to assure Service Level Agreements for new service oriented application traffic has become the differentiating factor among competitors. 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.”

This new release is Alcatel-Lucent's definitive guide to QoS, and a must read for any network engineer using their products. **ADVANCED QoS FOR MULTI-SERVICE IP/MPLS NETWORKS** is an essential reference for network designers and operators in the service provider and enterprise landscape where Alcatel-Lucent products are used, or are being considered for adoption. In addition, it provides a fantastic foundation in QoS for network engineering students.

About the Author

Ram Balakrishnan (Calgary, Alberta), a senior network design specialist 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 lead service provider and enterprise initiatives globally to design and implement converged multi-service networks. He holds patents related to intelligent routing algorithm. A frequent contributor to the Alcatel-Lucent Telecommunications Review, Ram has over 10 years experience in the telecommunications industry. He holds multiple degrees in Computer Science and Engineering.

About Alcatel-Lucent

Alcatel-Lucent (Euronext Paris and NYSE: ALU) provides solutions that enable service providers, enterprise and governments worldwide, to deliver voice, data and video communication services to end-users. As a leader in fixed, mobile and converged broadband networking, IP technologies, applications and services, Alcatel-Lucent offers the end-to-end solutions that enable compelling communications services for people at home, at work and on the move. With operations in more than 130 countries, Alcatel-Lucent is a local partner with global reach. The company has the most experienced global services team in the industry, and one of the largest research, technology and innovation organizations in the telecommunications industry. Alcatel-Lucent achieved revenues of Euro 17.8 billion in 2007 and is incorporated in France, with executive offices located in Paris. For more information, visit Alcatel-Lucent on the Internet: <http://www.alcatel-lucent.com>

For more information about the publication visit: www.alcatel-lucent.com/srpublications

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ADVANCED QUALITY OF SERVICE (QoS) FOR MULTI-SERVICE BASED IP/MPLS NETWORKS

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