



# QOS-Enabled Networks: Tools and Foundations

By Miguel Barreiros, Peter Lundqvist

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**With a foreword by Kannan Kothandaraman**

"This is the first book about QOS that I actually enjoyed reading precisely because the authors focused on real-life QoS and not in academic discussions about it."

**Per Nihlen, IP Network Manager, NORDUnet**

**The new authoritative, practical guide to delivering QOS guarantees**

This new benchmark in quality of service (QOS) study is written by two experts in the field who deal with QOS predicaments every day. The authors not only provide a lucid understanding of modern theory of QOS mechanisms in packet networks but how to apply them in practice. In addition, they detail the QOS management features found in modern routers used by Internet Service Providers (ISPs) and large enterprise companies and networks, all in an effort to enable network managers and engineers to configure production networks with a quality of service guarantee. The book's focus on addressing network behavior ("real effects") in relation to the configuration of network elements (routers and switches), is both refreshing and insightful.

***QOS-Enabled Networks* contains up-to-date coverage of:**

- QOS mechanisms in packet networks and how to apply them in practice
- QOS management features now common in modern-day routers
- How network behavior is related to configuration of network elements
- Layer 2 VPN and QOS
- QOS in mobile LTE networks

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## **Editorial Review**

From the Inside Flap

QOS-Enabled Networks: Tools and Foundations

Miguel Barreiros and Peter Lundqvist, Juniper Networks

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#### About the Author

**Miguel Barreiros** is a senior professional services engineer at Juniper Networks, working mainly with Ethernet and IP/MPLS networks across all the EMEA theatre. As part of his role he has worked with the QOS topic, from a design and implementation perspective, on several different customers such as British Telecom, Telstra and Telefonica. Prior to joining Juniper Networks, Miguel worked in Portugal Telecom (Service Provider), on network deployment, focusing on services, QOS and quality measurement. He holds a M.Sc. in computer science from Instituto Superior Tecnico, Portugal. He is a Juniper Network Certified Instructor (JNCI) and also holds the JNCIE (#193) certification.

**Peter Lundqvist** is a senior Beta-engineer working in Juniper Networks Systest with support of field test of new features and solutions before they are public available. Prior to working in Juniper Networks Engineering department, Peter worked as professional services engineer with network design and implementation of large-scale networks including QOS topics. Peter has worked more than 8 years in Juniper Networks. Prior to joining Juniper Networks Peter worked in Cisco Systems as Consulting Engineer.

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