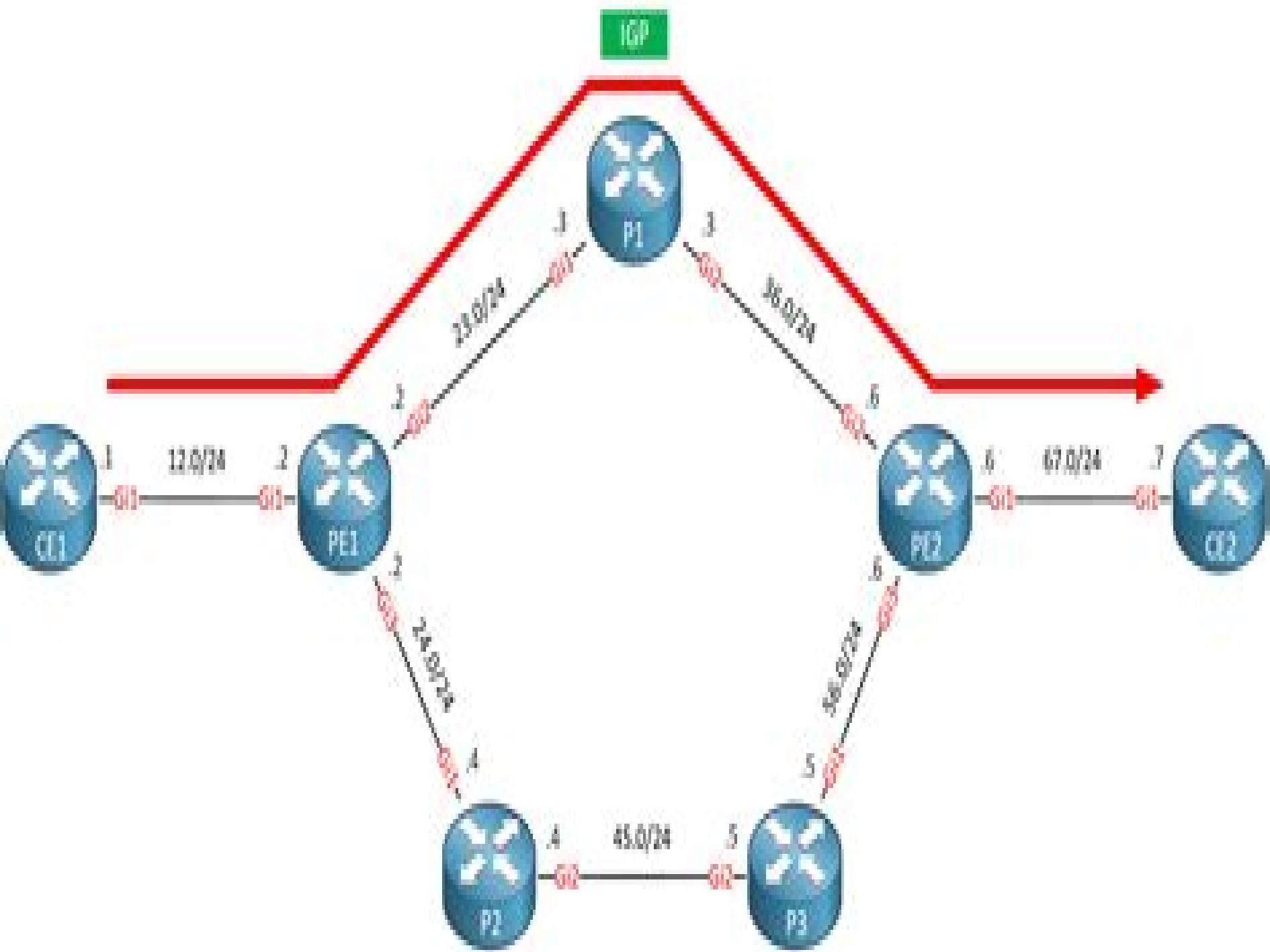




Traffic Engineering With Mpls Networking Technology

Eric D. Osborne, Ajay Simha



Traffic Engineering With Mpls Networking Technology:

Traffic Engineering with MPLS Eric D. Osborne, Ajay Simha, 2002 Design configure and manage MPLS TE to optimize network performance Almost every busy network backbone has some congested links while others remain underutilized That s because shortest path routing protocols send traffic down the path that is shortest without considering other network parameters such as utilization and traffic demands Using Traffic Engineering TE network operators can redistribute packet flows to attain more uniform distribution across all links Forcing traffic onto specific pathways allows you to get the most out of your existing network capacity while making it easier to deliver consistent service levels to customers at the same time Cisco r Multiprotocol Label Switching MPLS lends efficiency to very large networks and is the most effective way to implement TE MPLS TE routes traffic flows across the network by aligning resources required by a given flow with actual backbone capacity and topology This constraint based routing approach feeds the network route traffic down one or more pathways preventing unexpected congestion and enabling recovery from link or node failures Traffic Engineering with MPLS provides you with information on how to use MPLS TE and associated features to maximize network bandwidth This book focuses on real world applications from design scenarios to feature configurations to tools that can be used in managing and troubleshooting MPLS TE Assuming some familiarity with basic label operations this guide focuses mainly on the operational aspects of MPLS TE how the various pieces work and how to configure and troubleshoot them Additionally this book addresses design and scalability issues along with extensive deployment tips to help you roll out MPLS TE on your own network Understand the background of TE and MPLS and brush up on MPLS forwarding basics Learn about router information distribution and how to bring up MPLS TE tunnels in a network Understand MPLS TE s Constrained Shortest Path First CSPF and mechanisms you can use to influence CSPF s path calculation Use the Resource Reservation Protocol RSVP to implement Label Switched Path setup Use various mechanisms to forward traffic down a tunnel Integrate MPLS into the IP quality of service QoS spectrum of services Utilize Fast Reroute FRR to mitigate packet loss associated with link and node failures Understand Simple Network Management Protocol SNMP based measurement and accounting services that are available for MPLS Evaluate design scenarios for scalable MPLS TE deployments Manage MPLS TE networks by examining common configuration mistakes and utilizing tools for troubleshooting MPLS TE problems Eric and Ajay work in the development group at Cisco that built Traffic Engineering They are among those with the greatest hands on experience with this application This book is the product of their experience George Swallow Cisco Systems Architect for Traffic Engineering Co Chair IETF MPLS Working Group Eric Osborne CCIE r 4122 has been doing Internet engineering of one sort or another since 1995 He joined Cisco in 1998 to work in the Cisco Technical Assistance Center TAC moved from there to the ISP Expert team and then to the MPLS Deployment team He has been involved in MPLS since the Cisco IOS r Software Release 11 1CT days Ajay Simha CCIE 2970 joined the Cisco TAC in 1996 He then went on to support tier 1 and 2 ISPs as part of Cisco s ISP

Expert team Ajay has been working as an MPLS deployment engineer since October 1999 and he has first hand experience in troubleshooting designing and deploying MPLS

QoS for IP/MPLS Networks Santiago Alvarez, 2006-06-02 A comprehensive guide to implementing QoS in IP MPLS networks using Cisco IOS and Cisco IOS XR Software Understand IP QoS architectures and how they apply to MPLS Take a detailed look at traffic management using policing shaping scheduling and active queue management Study Cisco QoS behavioral model and the modular QoS command line interface MQC Learn the operation of MPLS TE with its DiffServ extensions and applicability as a traffic protection alternative Find multiple configuration and verification examples illustrating the implementation of MPLS TE DS TE and FRR Review the different designs ranging from a best effort backbone to the most elaborate scenarios combining DiffServ DS TE and FRR Quality of service QoS plays a key role in the implementation of IP and MPLS networks today However QoS can be one of the most complex aspects of networking The industry efforts to achieve convergence have generated a need for increased levels of traffic differentiation Today s networks need to meet an array of QoS requirements to support distinct applications such as voice video and data and multiple network services such as IP Ethernet and ATM on a single converged multiservice network QoS has therefore become an integral part of network design implementation and operation QoS for IP MPLS Networks is a practical guide that will help you facilitate the design deployment and operation of QoS using Cisco IOS Software and Cisco IOS XR Software The book provides a thorough explanation of the technology behind MPLS QoS and related technologies including the different design options you can use to build an MPLS network with strict performance requirements This book discusses MPLS Traffic Engineering MPLS TE as a tool to complement MPLS QoS and enhance the performance characteristics of the network You ll learn technology configuration and operational details including the essentials facts about the behavior and configuration of the rich MPLS QoS and related MPLS TE functionality To get the most out of this book you should have a basic understanding of both IP and MPLS including the basics of IP addressing and routing and the basics of MPLS forwarding

NETWORKING 2004: Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Nikolas Mitrou, Kimon Kontovasilis, George Rouskas, Ilias Iliadis, Lazaros Merakos, 2004-04-08 This book contains the refereed proceedings of the 3rd International IFIP TC6 Networking Conference Networking 2004 Conferences in the Networking series span the interests of several distinct but related TC6 working groups including Working Groups 6.2, 6.3 and 6.8 Reflecting this the conference was structured with three Special Tracks i Networking Technologies Services and Protocols ii Performance of Computer and Communication Networks and iii Mobile and Wireless Communications However beyond providing a forum for the presentation of high quality search in various complementary aspects of networking the conference was also targeted to contributing to a unified view of the field and to fostering the interaction and exchange of fruitful ideas between the various related and overlapping specialized subcommunities therein Towards this second objective more than a few

conference sessions and thematic sections in this book cut across the Special Tracks along more generic or fundamental concepts Networking 2004 was fortunate to attract very high interest among the community and the conference received 539 submissions from 44 countries in all five continents These figures correspond to a remarkable increase in submissions from the previous very successful events roughly a 156% increase over Networking 2000 and 71% over Networking 2002 and indicate that Networking conferences are progressively becoming established as worldwide reference events in the field

NETWORKING 2002: Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Enrico Gregori, Marco Conti, Andrew T. Campbell, Guy Omidyar, Moshe Zukerman, 2007-06-30 This book constitutes the refereed proceedings of the Second IFIP TC6 Networking Conference Networking 2002 Networking 2002 was sponsored by the IFIP Working Groups 6.2, 6.3 and 6.8 For this reason the conference was structured into three tracks i Networking Technologies Services and Protocols ii Performance of Computer and Communication Networks and iii Mobile and Wireless Communications This year the conference received 314 submissions coming from 42 countries from all five continents Africa 4 Asia 84 America 63 Europe 158 and Oceania 5 This represents a 50% increase in submissions over the first conference thus indicating that Networking is becoming a reference conference for worldwide researchers in the networking community With so many papers to choose from the job of the Technical Program Committee to provide a conference program of the highest technical excellence was both challenging and time consuming From the 314 submissions we finally selected 82 full papers for presentation during the conference technical sessions To give young researchers and researchers from emerging countries the opportunity to present their work and to receive useful feedback from participants we decided to include two poster sessions during the technical program Thirty one short papers were selected for presentation during the poster sessions The conference technical program was split into three days and included in addition to the 82 refereed contributions 5 invited papers from top level researchers in the networking community

Analysis and Design of Advanced Multiservice Networks Supporting Mobility, Multimedia, and Internetworking Jose Brazio, Phuoc Tran-Gia, Nail Akar, Andrzej Beben, Wojciech Burakowski, Markus Fiedler, Ezhan Karasan, Michael Menth, Philippe Olivier, Kurt Tutschku, Sabine Wittevröngel, 2006-07-02 The recent trend towards the interoperability of traditionally separate networks such as terrestrial wireless cellular and satellite for the support of multimedia applications poses new and significantly challenging problems to network design This book reports on the state of the art work developed during the four years of operation of the COST 279 Action Analysis and Design of Advanced Multiservice Networks supporting Mobility Multimedia and Internetworking by its participating researchers originating from over 40 research institutions from the academic industrial and telecom operator worlds The work includes both fundamental methodological and applied aspects of network performance evaluation and design Analysis and Design of Advanced Multiservice Networks Supporting Mobility Multimedia and Internetworking contains a detailed account of the work

developed supported on an extensive bibliography of material published in the peer reviewed literature It contains the following six chapters IP Based Networks Queueing Models Traffic Measurement Characterization and Modeling Wireless Networks Optical Networks Peer to Peer Services Analysis and Design of Advanced Multiservice Networks Supporting Mobility Multimedia and Internetworking will appeal to both practitioners of network design and to researchers aiming to map future directions in networking research

NETWORKING 2005. Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems Raouf Boutaba, Kevin Almeroth, Ramon Puigjaner, Sherman Shen, James P. Black, 2005-05-02 This book constitutes the refereed proceedings of the 4th International IFIP TC6 Networking Conference NETWORKING 2005 held in Waterloo Canada in May 2005 The 105 revised full papers and 36 posters were carefully reviewed and selected from 430 submissions The papers are organized in topical sections on peer to peer networks Internet protocols wireless security network security wireless performance network service support network modeling and simulation wireless LAN optical networks Internet performance and Web applications ad hoc networks adaptive networks radio resource management Internet routing queueing models monitoring network management sensor networks overlay multicast QoS wireless scheduling multicast traffic management and engineering mobility management bandwidth management DCMA and wireless resource management

NETWORKING 2006. Networking Technologies, Services, Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems Fernando Boavida, Thomas Plagemann, Burkhard Stiller, Cedric Westphal, Edmundo Monteiro, 2006-04-27 Here are the refereed proceedings of the 5th International IFIP TC6 Networking Conference NETWORKING 2006 The 88 revised full papers and 31 poster papers are organized in topical sections on caching and content management mobile ad hoc networks mobility handoff monitoring measurements multicast multimedia optical networks peer to peer resource management and QoS routing topology and location awareness traffic engineering transport protocols wireless networks and wireless sensor networks

Intelligent Quality of Service Technologies and Network Management: Models for Enhancing Communication Bhattarakosol, Pattarasinee, 2010-04-30 This book quality of service in organizations offering fundamental knowledge on the subject describing the significance of network management and the integration of knowledge to demonstrate how network management is related to QoS in real applications Provided by publisher

Information Networking. Networking Technologies for Broadband and Mobile Networks Hyun-Kook Kahng, Shigeki Goto, 2004-08-31 This book constitutes the thoroughly refereed post proceedings of the International Conference on Information Networking ICOIN 2004 held in Busan Korea in February 2004 The 104 revised full papers presented were carefully selected during two rounds of reviewing and revision The papers are organized in topical sections on mobile Internet and ubiquitous computing QoS measurement and performance analysis high speed network technologies next generation Internet architecture security and Internet

applications Optical Networks and Technologies Ken-ichi Kitayama, Francesco Masetti-Placci, Giancarlo Prati, 2006-03-12

There has continuously been a massive growth of Internet traffic for these years despite the bubble burst in year 2000. As the telecom market is gradually picking up, it would be a consensus in telecom and data com industries that the CAPEX Capital Expenditures to rebuild the network infrastructure to cope with this traffic growth would be imminent while the OPEX Operational Expenditures has to be within a tight constraint. Therefore the newly built 21st century network has to fully evolve from voice oriented legacy networks not only by increasing the transmission capacity of WDM links but also by introducing switching technologies in optical domain to provide full connectivity to support a wide variety of services. This book stems from the technical contributions presented at the Optical Networks and Technology Conference OpNeTec inaugurated this year 2004 in Pisa Italy and collects innovations of optical network technologies toward the 21st century network. High quality recent research results on optical networks and related technologies are presented including IP over WDM integration burst and packet switchings control and managements operation metro and access networks and components and devices in the perspective of network application. An effort has been made throughout the conference hopefully reflected at least partially in this book to bring together researchers scientists and engineers working both academia and industries to discuss the relative impact of networks on technologies and vice versa with a vision of the future.

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