2008 2nd IEEE International Workshop on Bandwidth on Demand

Hausheer, D; Antoniadis, P; Shiomoto, K; Stiller, B; Walrand, J

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Abstract

The following topics were dealt with: provisioning of bandwidth on demand; resource allocation; multi-domain optical networks; network pricing; bandwidth trading; virtual network topology control; bandwidth reservation network and GMPLS signalling.
BoD 2008
2008 2nd IEEE International Workshop on Bandwidth on Demand
In conjunction with IEEE NOMS 2008

April 11, 2008
Salvador da Bahia, Brazil

David Hausheer, Panayotis Antoniadis, Kohei Shiomoto, Burkhard Stiller, Jean Walrand (Eds.)
Preface

The second BoD workshop follows the first successful workshop which was held in conjunction with IEEE Globecom 2006. Driven by the recent technical advances in telecommunications, especially in the area of network virtualization and wireless mesh networks, as well as based on the new potential of emerging peer-to-peer (P2P) and next generation networking (NGN) concepts, the goal of this workshop is to take a fresh and innovative look at the concept of bandwidth on demand (BoD).

The rapid technological progress in the area network virtualization, mainly driven by new optical fiber technology and virtual router infrastructures, is generating a new trend for "on demand" provisioning of bandwidth or even whole networks for applications that require short-term bandwidth assignments at large scale, such as large sporting events or cultural open air activities. However, suitable business models for "on demand" bandwidth services are currently missing. As a consequence, electronic marketplaces allowing customers to buy bandwidth services from different providers as needed have not yet evolved.

For the second time, BoD brings together researchers from both industry and academia to discuss economic as well as technical aspects of BoD mechanisms. Following the theme of this workshop “From Bandwidth on Demand to Networks on Demand – Bandwidth Trading in the Era of Network Virtualization”, BoD 2008 addresses not only market mechanisms as a way to increase efficiencies, but also industrial developments of new technologies such as network virtualization which seem to become one of the key drivers for bandwidth trading.

Although this workshop focusses on a specialized area of research serving as the basis for bandwidth on demand, a total of 12 submission have been received for BoD 2008, which is organized in conjunction with this year’s IEEE NOMS 2008 conference. The BoD 2008 workshop provides a single-track and one-day program, including a keynote, a panel, and three technical sessions with a total of 8 papers that have been selected for the workshop after a thorough review process with as many as four detailed reviews per paper. The international scope of BoD 2008 is clearly visible from the final program which includes four papers from Asia-Pacific, three from North America, and one from Europe, as well as the keynote from North America and two European and one Asian-Pacific panelists.

The BoD 2008 workshop would not be a success without the excellent work that has been performed by all the members of the technical program committee as well as those reviewers who have spent a considerable amount of their time providing highly qualified reviews. In addition, we are grateful for the job done by the submission system handler.
Furthermore, we would like to acknowledge the support provided by the IEEE NOMS 2008 Workshop Co-Chairs, Edmundo Madeira and Rolf Stadler, and thank the IEEE, in particular Gayle Weisman and Elizabeth Aubrey for their help and cooperation on publishing these workshop proceedings.

March 2008

David Hausheer
Panayotis Antoniadis
Kohei Shiomoto
Burkhard Stiller
Jean Walrand

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The BoD 2008 committee would like to thank all the reviewers as listed below for their important work. They have done a great job in performing four detailed reviews of each paper submitted to BoD 2008 in only a very short time.

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DoCoMo Euro-Labs Muenchen, Germany
BoD 2008 Technical Program

Table of Content

Keynote

Pricing of Bandwidth and Communication On Demand Services
Jean Walrand, UC Berkeley, USA

Session 1: Provisioning of Bandwidth on Demand (Part 1)

Session Chair: David Hausheer, University of Zurich, Switzerland

Resource Allocation and Provision for Bandwidth/Networks on Demand in SINET3
Shigeo Urushidani, Kensuke Fukuda, Yusheng Ji, Shunji Abe, Michihiro Koibuchi, Motonori Nakamura, Shigeki Yamada, National Institute of Informatics, Japan,
Kaori Shimizu, Rie Hayashi, Ichiro Inoue, Kohei Shiomoto, NTT Labs, Japan

Tutorial: Path Computation Architectures Overview in Multi-domain Optical Networks
Based on ITU-T ASON and IETF PCE
Daniel King, Aria Networks, UK, Young Lee, Huiying Xu, Huawei, USA,
Adrian Farrel, Old Dog Consulting, UK

Panel

Moderator: Burkhard Stiller, University of Zurich, Switzerland

From Bandwidth on Demand to Networks on Demand –
Bandwidth Trading in the Era of Network Virtualization
Panelists: Aiko Pras, University of Twente, The Netherlands,
Prosper Chemouil, Orange-FT Research, France,
Kohei Shiomoto, NTT Labs, Japan
Session 2: Economics of Bandwidth on Demand
Session Chair: Burkhard Stiller, University of Zurich, Switzerland

An Efficient Mechanism for Network Bandwidth Auction
Rahul Jain, IBM Watson Research, USA, Jean Walrand, UC Berkeley, USA

American Options Based Service Pricing For Virtual Operators
Pietro Cassarà, Giuseppe D’Acquisto, Luigi Alcuri, University of Palermo, Italy

Time-Dependent Network Pricing and Bandwidth Trading
Libin Jiang, UC Berkeley, USA, Shyam Parekh, Bell Labs, Alcatel-Lucent, USA, Jean Walrand, UC Berkeley, USA

Session 3: Provisioning of Bandwidth on Demand (Part 2)
Session Chair: David Hausheer, University of Zurich, Switzerland

Enhancing Bandwidth on Demand Service Based on Virtual Network Topology Control
Takashi Miyamura, Eiji Oki, Ichiro Inoue, Kohei Shiomoto, NTT Labs, Japan

Services Parameters and Novel Provisioning Techniques for a Bandwidth Reservation Network
Rie Hayashi, Kaori Shimizu, Ichiro Inoue, Kohei Shiomoto, NTT Labs, Japan

BoD Service with VCAT/LCAS and GMPLS Signalling
Jianhua Gao, Dan Li, Huawei, China