



**3rd IFIP/IEEE International Workshop on
Bandwidth on Demand
and Federation Economics (BoD 2010)**



University of Zurich

BoD Workshop @ NOMS 2010
Osaka, Japan, April 23, 2010



3rd IFIP/IEEE International Workshop on Bandwidth on Demand and Federation Economics (BoD 2010)

“Scalable and Economic Bandwidth Allocation in the Future Internet”

Workshop Co-Chairs:

David Hausheer, Kohei Shiomoto, Burkhard Stiller,
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Introduction

Network virtualization creates a new trend for bandwidth on demand (BoD)

- Technical feasibility of BoD solutions demonstrated on several occasions

Design of suitable allocation policies and business models is challenging

- Especially in federated multi-domain cases with independent providers

BoD is a cross-domain workshop

- Aims to address the technical, economic, as well as regulatory dimensions of bandwidth allocation in fixed and wireless networks

BoD 2010 follows three previous successful events

- First BoD workshop held at Globecom 2006
- Second BoD workshop held at NOMS 2008
- Dagstuhl seminar held in 2009



Workshop Statistics

Submissions: 17 (+40% compared to BoD 2008)

Reviews: 3-4 per paper

Accepted Papers: 8

- Asia: 3
- Europe: 3
- Europe-North America: 2



Acknowledgement of TPC / Reviewers

Aiko Pras
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Acknowledgements

BoD Keynote Speaker, Authors, and Panelists

BoD Workshop Co-Chairs

NOMS 2010 Workshop Co-Chairs

- Luciano Paschoal Gaspar and Georgios Kormentzas

NOMS 2010 Organizing Committee



Agenda (Morning)

- 09:15 **Keynote (recorded)**
Keynote Speaker: Bruno Tuffin, INRIA, France
- 10:30 Coffee break
- 10:30 **Session 1: Provisioning of Bandwidth and Networks on Demand**
Session Chair: Kohei Shiimoto, NTT Labs, Japan
- 12:30 Lunch break
- 13:30 **Panel**
Moderator: Burkhard Stiller, Univ of Zurich, Switzerland



Agenda (Afternoon)

- 14:30 **Session 2: BoD Security and Performance**
Session Chair: Michihiro Aoki, NII, Japan
- 15:30 Coffee break
- 16:00 **Session 3: BoD Economics and Business Models**
Session Chair: David Hausheer, UC Berkeley, USA
- 17:30 End of workshop



Session 1: Provisioning of Bandwidth and Networks on Demand



Session Chair: Kohei Shiimoto, NTT Labs, Japan

Expansion of Bandwidth-on-Demand Capabilities in Japanese Academic Backbone Network

- Shigeo Urushidani, Michihiro Aoki, Motonori Nakamura, Michihiro Koibuchi, Kensuke Fukuda Yusheng Ji, Shunji Abe, Shigeki Yamada (National Institute of Informatics, Japan)

Investigating the Economic Feasibility of Bandwidth-on-Demand Services for the European Research Networks (moved from session 3)

- Andreas Hanemann (German Research Network, Germany), David Hausheer (UC Berkeley, USA), Peter Reichl (Telecom. Research Center, ftw. Vienna, Austria), Burkhard Stiller (Univ of Zurich, Switzerland), Paul van Daalen (SURFnet, The Netherlands)

Application-network Collaborative Bandwidth On-Demand for Uncompressed HDTV Transmission in IP-optical Networks

- Akeo Masuda, Akinori Isogai, Kohei Shiimoto, Yoshihiro Nakajima, Tetsuo Kawano, Mitsuru Maruyama (NTT Labs, Japan)



Panel

Moderator: Burkhard Stiller, Univ of Zurich, Switzerland

Bandwidth-on-Demand:

Are Use, Technologies, and Pricing Aligned?

Panelists:

- ~~Bruno Tuffin, INRIA, France~~
- ~~Metin Feridun, IBM Research Zurich, Switzerland~~
- Weiqiang Sun, Shanghai Jiao Tong University, China
- Aiko Pras, University of Twente, The Netherlands
- Shinya Namamura, NEC, Japan

Session 2: BoD Security and Performance



University of Zurich



Session Chair: Michihiro Aoki, NII, Japan

Secure and robust automatic service creation in multicarrier Ethernet networks

- Peter Schneider, David Berechya, Ilya Vershkov (Nokia Siemens Networks, Germany)

Data Communications over Context-Based WMNs: Delay Performance Evaluation (**remote**)

- Ricardo Matos and Susana Sargento (Universidade de Aveiro, Portugal)

Session 3: BoD Economics and Business Models



University of Zurich



Session Chair: David Hausheer, UC Berkeley, USA

Implications for Business Models of Cascading Interdomain SLAs
(remote)

- Vitor Jesus and Rui Aguiar (Universidade de Aveiro, Portugal), Peter Steenkiste (CMU, USA)

End-to-end QoS Negotiation in Network Federations (remote, moved from session 1)

- Hélia Pouyllau and Richard Douville (Alcatel-Lucent Bell Labs, France)

Network on Demand Service with Price-based Resource Control

- Takashi Miyamura and Kohei Shiomoto (NTT Labs, Japan)



Workshop Proceedings

Workshop proceedings have been distributed to all workshop participants on CD-ROM

Additionally, papers will be available electronically on IEEE Xplore after the workshop

- Check out <http://ieeexplore.ieee.org/>

Presentations will be uploaded to the workshop website

- <http://www.csg.uzh.ch/events/bod10/>
- **All speakers please upload slides to JEMS**



Have a Good Workshop Start!

Thank you for attending!

We wish you a lively and interesting Workshop with many interactions.



Keynote



Pricing in Telecommunication Networks: Some Issues and Models

Keynote Speaker:
Bruno Tuffin, INRIA, France

