



**EBU TECHNICAL**  
MEDIA TECHNOLOGY & INNOVATION



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# Networked Media Exchange 2009

Towards reliable IP networks  
for broadcast applications

EBU, GENEVA, JUNE 22 - 23 2009



Programme

## Monday 22 June

From 8.30 Registration

9.30 **Welcome and opening remarks** by Rhys Lewis, Chief Enterprise Architect, BBC, UK, and Chairman of the EBU NMC, and Brad Gilmer, Executive Director of Video Services Forum Inc., USA. Brad will be co-chairing all sessions of this seminar.

### Session 1 Networks in Action – Use Cases

Co-Chair: Jeff Vanden berghe, VRT, Belgium

IP is becoming a dominant communications technology for transporting audio-visual content in broadcast and media organisations. This first session provides you with an opportunity to profit from the experience of broadcast professionals who have already invested in this area as leading figures in the industry. They will report on their successes and failures.

10.00 **Use case 1: Building an MPLS network to support broadcasters**  
By Andy Rayner, BT Research, United Kingdom

10.30 **Use case 2: Report from Olympic Games Beijing**  
By Yuan-Xing Zheng, BBC, United Kingdom

11.00 Coffee

11.30 **Use case 3: File-based news exchange project**  
By Tony Naets, EBU Director General's office and Didier Debellemanière, Eurovision, Switzerland

12.00 **Use case 4: Moving towards HD over IP Networks**  
By Anders Nyberg, SVT, Sweden

12.30 Lunch

### Session 2 Getting the best from your network

Co-Chair: Markus Berg, IRT, Germany

Are you having problems with getting your IP network to live up to the hype? This session provides an opportunity to learn some tips and techniques to help with the assessment and improvement of the performance of your network.

14.00 **Measurement of network jitter on variable bitrate streams**  
By Antoni Caceres, Tektronix, United Kingdom

14.30 **IRT measurements on MPLS low bitrates**  
By Andreas Metz, IRT, Germany

15.00 **Quality of experience issues**  
By Stefan Winkler, Symetricom, United States of America

15.30 Coffee

### Session 3 Effective network management

Co-Chair: Anders Nyberg, SVT, Sweden

You've invested a great deal of money and time in putting in place a high-performance network. But how do you keep it that way day-in, day-out? Our final three papers today bring in the experts in network management to tell you how!

16.00 **Where are my files?**  
By Luc Andries, VRT, Belgium

16.30 **A network operator's view of delivering professional video**  
By Ryan Korte, Level 3, United States of America

(Session 3 continued)

- 17.00 **Management Systems – Broadcast Networks – Now and in the Future**  
*By Shahin Arefzadeh, Dimetis, Germany*
- 17.30 Monday evening: Cocktail reception at the EBU

## Tuesday 23 June

### Session 4 Interoperability and new technologies

*Co-Chair: Chris Chambers, BBC, UK*

The focus of this morning's session is the work of various development teams and labs that are developing new standards and techniques. If you haven't yet found a solution to your networking problem, then this is the session to attend to check whether there's one coming along soon!

- 09.00 **Setting the scene: interoperability in networked content exchange**  
*By Chris Chambers, BBC, United Kingdom*
- 09.30 **EBU work on Video Contribution over IP – an update**  
*By Markus Berg, IRT, Germany*
- 10.00 **Uncompressed over IP transport**  
*By John Dale III, MediaLinks, United States of America*
- 10.30 **Coffee**
- 11.00 **Hints on the selection of network parameters for Audio over IP**  
*By Lars Jonsson, SR, Sweden*
- 11.30 **Networking and studio infrastructures for HD**  
*By Philippe Lemonnier, Grass Valley, France*
- 12.00 **Fast File transfer protocols - Speeding up your file transfer**  
*By Peter Brightwell, BBC, United Kingdom*
- 12.30 Q & A
- 12.45 **Lunch**

### Session 5 Use of compression (and algorithms)

*Co-Chair: Carsten Gertzen, ARD, Germany*

Our final session of the seminar moves the emphasis away from the network and on to some aspects of the terminal equipment. Come and learn how to avoid the risks of degrading your overall network performance through inappropriate setup of your coders or standards converters.

- 14.00 **Standards converter and Contribution codec test results**  
*By Adi Kouadio, EBU, Switzerland*
- 14.30 **Optimal JPEG 2000 rate allocation**  
*By Francois-Olivier Devaux, intoPIX, Belgium*
- 15.00 **DIRAC coding tutorial and implementation**  
*By Tim Borer, BBC, UK*
- 15.30 Panel and Conclusions with speakers and chairmen
- 16.00 End of seminar

### **VSF Contact**

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### **Internet**

[tech.ebu.ch/networks09](http://tech.ebu.ch/networks09)

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