

NETWORK TECHNOLOGY SEMINAR

AN EBU EVENT

YOUR NETWORKED MEDIA & IT RENDEZ-VOUS

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PROGRAMME

TUESDAY 18 JUNE - MODERATED BY PHIL TUDOR (BBC)

08.30 – 09:00 *Registration, tea, coffee, demos & networking*

KEYNOTE SESSION

09:00 – 09:05 **Welcome to NTS 2019** Antonio Arcidiacono (EBU)

09:05 – 09:10 **The New Workplan of EBU T&I** Hans Hoffmann (EBU)

09:10 – 09:20 **The IP Production Landscape** Phil Tudor (BBC)

09:20 – 09:50 **Business Requirements in these disruptive times** Mathias Coinchon (RTS)

09:50 – 10:20 **Building cloud infrastructure** Thierry Carrez (Openstack)

10:20 – 10:30 **Demo Pitches**

10:30 – 11:00 *Tea, Coffee, Demos & Networking*

SESSION 1: NEW WAYS OF WORKING

11:00 – 11:30 **Automating low cost/high quality orchestra production** David Chalmers (BBC)

11:30 – 12:00 **Live Radio production in the Cloud** Mikko Nevalainen (YLE)

12:00 – 12:30 **IP Based MCR at Kosovo** Genc Mucolli (RTKLive)

12:30 – 13:30 *Buffet Lunch, Demos & Networking*

SESSION 2: MEDIA TRANSPORT

13:30 – 14:00 **Streaming over WAN - RIST and SRT** Love Thyresson (Netinsight)

14:00 – 14:30 **What about SMPTE ST 2110 over WAN?** Andy Rayner (Nevion)

14:30 – 15:00 **ARD HYBNET III OTN-based Broadcast Network** Sonja Langhans (IRT) & Sven Thomas (Vodafone)

15:00 – 15:30 **SMPTE ST 2110-22 using JPEG-XS** Antonin Descampe (Intopix)

15:30 – 16:00 *Tea, Coffee, Demos & Networking*

SESSION 3: USE CASES

16:00 – 16:30 **Completing BBC Cardiff, starting BBC Belfast facilities** Mark Patrick (BBC)

16:30 – 17:00 **Software IP production at RTBF** Hugo Ortiz (RTBF)

17:00 – 17:30 **Plazamedia – IP SDN for new broadcast facilities** Andy Rayner (Nevion)

17:30 – 18:00 **YLE radio towards IP platform based on AES67** Veli-Matti Jarvelainen (YLE)

18:00 – 20:00 *Beers, Bites, Demos & Networking*

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WEDNESDAY 19 JUNE - MODERATED BY MARKUS BERG (IRT)

08.30 – 09:00 *Tea, Coffee, Demos & Networking*

TUTORIALS – DESIGN PATTERNS

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|---------------|--|---|
| 09:00 – 09:50 | Tutorial A (room Geneva) Architecting Redundant PTP Deployments Louis Lamarre (CBC) | Tutorial B (room Montreux) Network Design / Orchestration / Automation Gerard Phillips & Sébastien Keller (Arista) |
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09:50 – 10:00 *Tea, Coffee, Demos & Networking*

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| 10:00 – 10:50 | Tutorial C (room Montreux) Network security for broadcast equipment Mike Ellis (BBC) | Tutorial D (room Geneva) The journey towards cloud and open infrastructure Ildiko Vanska (Openstack) |
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10:50 – 11:00 *Tea, Coffee, Demos & Networking*

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| 11:00 – 11:50 | Tutorial E (room Montreux) 5G for Public Service Media Roland Beutler (SWR) | Tutorial F (room Geneva) Patterns of cloud infrastructure on premise Peter Brightwell (BBC) |
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11:50 – 13:30 *Buffet Lunch, Demos & Networking*

SESSION 4: TECHNOLOGY PYRAMID FOR MEDIA NODES

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| 13:30 – 14:00 | EBU Tech 3371 – JT-NM TR-1001-1:2018 - PYRAMID | Willem Vermost & Ievgen Kostiukevych (EBU) |
| 14:00 – 14:30 | Control & Monitoring at SRF/tpc, Zürich | Sandro Furter (TPC) |
| 14:30 – 15:00 | Securing the control-plane with AMWA BCP-003 | Arne Bönninghoff (Riedel) |
| 15:00 – 15:30 | <i>Tea, Coffee, Demos & Networking</i> | |

SESSION 5: USE CASES

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| 15:30 – 16:00 | OB in a Box | Adam Dean (BBC) |
| 16:00 – 16:30 | Are FIS Alpine World Ski Championship - Sustainable remote production reducing the ecological footprint | Larissa Görrner (GrassValley) |
| 16:30 – 17:00 | A virtualised control room? Proof of concept 2018 | Edmond Debar (FTV) |
| 17:00 – 17:30 | Wrap-Up | Willem Vermost (EBU) |

NTS 2019 – YOUR MEDIA & IT RENDEZVOUS

DEMONSTRATIONS

DEMONSTRATION TRACK

Production Workflow – Mezzanine Based Production

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|---|--------------------|---|
| 1 | OpenHeadend | Demonstrating reliable streaming with SRT and RIST |
| 2 | intoPIX | Demonstrating live ST 2110-22 video using real time JPEG-XS compression |

Infrastructure 1: Orchestration, Control and Security

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| 3 | Nevion / RTS | Demonstrating VideoPath orchestration deployed at RTS POC lab |
| 4 | Riedel / Skyline | Demonstrating Riedel control solution using NMOS IS-07 and Dataminer |
| 5 | SDNSquare | Demonstrating Network Orchestration and Flow Management |

Infrastructure 2: Monitoring and Measuring

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|---|-----------------|---|
| 5 | EBU LIST | Demonstrating Live IP measurements assisted with NMOS IS-04 |
| 6 | Mellanox | Demonstrating ST 2110 streams generated in a virtual machine using Rivermax |