

EBU ACADEMY

EBU ACADEMY REGIONAL LEARNING HUB

PR, Warsaw, Poland

PREPARING YOUR MOVE TO LIVE-IP TV PRODUCTION

30 September – 1 October 2019, PR, Warsaw

Description

Get the high level strategic and technological overview you need to transition to a full live-IP environment.

EBU Members will gain an insight from IT and broadcast specialists around the key developments and challenges to enable them to benchmark their own state of play.

The content of the course undergoes constant review to ensure participants are brought up to date with the latest standards, products and market trends.

Who it's for

25 people

- Chief technology officers, project managers
- Planning engineers, system and network designers and architects
- Broadcast and network engineers involved in developing their broadcaster's production platform
- AV technicians and engineers with either an IT or broadcast technology background who want to strengthen their knowledge

6 from Poland,
2 from Estonia,
2 from Lithuania,
4 from Latvia – 2 Radio & 2 TV -
2 from Belarus
2 from Ukraine
4 from Czech republic – 2 Radio & 2 TV -
2 from Hungary
2 from Slovakia
2 from Georgia – Solidarity -

Equipment needed by participants

PC

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Skills learnt and delivered during the course:

1. Network fundamentals
2. State of play regarding products, existing standards and current standardization efforts
3. Keys to understanding technology developments, with a special highlight on interoperability, monitoring, trouble shooting & security issues
4. Characteristics of networks for media
5. Challenges and possible strategies for a transition to Live-IP facilities

Schedule

Day 1: from 09:00 to 17:00

Day 2: from 09:00 to 16:30

Faculty member

**Pedro Ferreira, Software Developer,
Trainer and Consultant, Portugal**



Pedro started his career as a researcher at INESC and then became one of the founders of MOG Technologies, where he worked for 15 years, most of which as the CTO. He led the development of many innovative products, such as the MXF::SDK and mxf SPEEDRAIL, as well as several bespoke projects.

He has also been actively involved in standardisation and EU research projects since he started his career.

As a member of the EBU Academy faculty, where he has trained over 200 people in subjects like MXF, File-based workflows and Live-IP.

Ievgen Kostiukevych

**Project manager, Media production
over IP Networks, EBU Technology &
Innovation, Switzerland**



Ievgen Kostiukevych is the member of EBU Technology & Innovation team.

He is working on topics of Media over IP with a shift into Audio over IP topics, AES67 and SMPTE ST 2110-30 interoperability challenges.

He has 8 years of experience in broadcasting and sound production industry, including experience in change management, solutions architecture and AoIP integration.

Ievgen is a member of SMPTE and AES

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Content outline

Monday 30 September 2019

- 09:00 – 09:15 **Opening**
- 09:15 – 10:00 **Introduction, Group work and individual presentation**
- 10:00 – 10:45 **MODULE 1: INTRODUCTION TO LIVE IP PRODUCTION**
Pedro Ferreira
- 10:45 – 11:15 *Comfort break*
- 11:15 – 12:30 **MODULE 2: COMPUTER NETWORK FUNDAMENTALS**
Pedro Ferreira
- 12:30 – 13:30 *Lunch break*
- 13:30 – 14:15 **MODULE 3: MEDIA TRANSPORT OVER IP NETWORKS**
Pedro Ferreira
- 14:15 – 15:00 **MODULE 4: TIMING & SYNCHRONIZATION – THE PRECISION TIME
PROTOCOL**
levgen Kostiukevych
- 15:00 – 15:30 *Comfort break*
- 15:30 – 16:15 **MODULE 5: NETWORKS FOR LIVE-IP**
Pedro Ferreira
- 16:45 – 17:00 *Wrap up*
- 17:00 *End of day 1*

Tuesday 1 October 2019

- 09:00 – 09:15 **Review from yesterday**
- 9:15 – 10:00 **MODULE 6: AN OVERVIEW OF SMPTE 2110**
Pedro Ferreira
- 10:00 – 11:15 **MODULE 7: AUDIO OVER IP FOR TV PRODUCTION**
levgen Kostiukevych
- 11:15 – 11:45 *Comfort break*
- 11:45 – 12:30 **Demo: Network traffic simulation**
levgen Kostiukevych
- 12:30 – 13:30 *Lunch break*

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13:30 – 14:30	MODULE 8: THE CONTROL PLANE Pedro Ferreira
14:30 – 15:00	MODULE 9: WHAT ABOUT SECURITY? Pedro Ferreira
15:00 – 16:00	Discussion: How to manage the transition to Live-IP production
16:00 – 16:30	Wrap-up and evaluation
16:30	<i>End of workshop</i>