



Open Source Software for media professionals

Programme

EBU, Geneva, Switzerland
1 and 2 October 2007

Produced by
EBU International Training



Open Source?

Open Source software provides users with the source code. It helps prevent vendor lock-in, you can make changes to it directly, and it is often free as well. But how mature is it?

This seminar will guide you through the specifics of Free Open Source Software (FOSS) and it isn't just about technology. The seminar also addresses issues such as license types, hidden costs, support and quality. Practical demos, tutorials of audio & video tools and distribution platforms are included.

Join us in determining how relevant Free Open Source Software is for the media industry. You will be guided by Michael Sparks, Senior Research Engineer, BBC Research, Future Media & Technology, an expert and strong advocate for the use, improvement and origination of Open Source Software.



Objectives

- Demystify Open Source Software and understand what it means for the media industry.
- Get exposed to its basic characteristics: license types, cost, quality, support.
- Assess the practical impact of Open Source Software on your operations
- Meet colleagues who are using/developing Open Source Software & see whether you want to join them.

For whom

- EBU members and non-members
- Heads of technical departments, technical managers, heads of R&D
- Media engineers, Open Source project developers, consultants
- Anybody with an interest in the use of Open Source Software in the audio-visual industry

Demos & tutorials

- On 1st October, various Open Source media tools will be “demoed” during a cocktail.
- On 2nd October, tutorials on several post-production tools will be given.
- See our website for an up-to-date list of demos and tutorials provided: www.ebu.ch/opensource



Monday 1 October 2007

- 09:00 – 09:45 Registration and coffee
- Chairman** Michael Sparks, Senior Research Engineer, BBC Research, Future Media & Technology, United Kingdom
- 09:45 – 10:00 **Welcome & introduction**
Michael Sparks
- 10:00 – 11:30 Session 1 – Free Software, how does that work?**
This session introduces the concept of Free Open Source Software and its historical background. The community-based development process is explained and the speakers provide an overview of the key legal, business & support issues.
- 10:00 – 10:30 **Background, Basics and Business**
Rishab Aiyer Ghosh, UNU-MERIT, the Netherlands
Rishab Ghosh has done extensive research on Open Source Software and he will jump start proceedings by describing what Open Source Software is, where it comes from and how it differs from Closed Source. He will also tell you about its opportunities for the industry at large.
- 10:30 – 11:00 **Free software licensing, Patents and Open Standards**
Shane Coughlan, Free Software Foundation Europe, Germany
This will provide an overview of Free Software software licences and their use. Shane Coughlan will discuss Patents issues and the potential risks presented by submarine patents. Also expect something on the importance of Open Standards.
- 11:00 – 11:30 **Supporting Open Source in a business environment**
Julien Moutte, Flumotion, Spain
As the founder of a company whose business revolves around Open Source, Julien Moutte is well placed to tell you how you can assess benefits of Open Source Software and secure support. And he won't forget the bottom line: what (hidden) costs should you count on?
- 11:30 – 12:00 Coffee break
- 12:00 – 15:30 Session 2 – The Broadcaster's angle**
Listen to what broadcasters have to say about Open Source. What projects are they using Open Source Software for, and why? Learn about how their progress and hear about the benefits and drawbacks of the various tools available.
- 12:00 – 12:30 **Comparing the alternatives**
Lucas Vroemen, L1, the Netherlands
How do you evaluate the feasibility of using an Open Source product instead of a closed solution? Lucas Vroemen has made this comparison twice, both for his station's radio play-out and for its news site. He will tell you how he assesses the alternatives.
- 12:30 – 13:00 **Where to use Open Source**
Giorgio Dimino, RAI, Italy
Well-experienced in integrating Open Source Software in broadcast production, Giorgio Dimino has hands-on experience as to which solutions are mature... or not. He will give you his views on where Open Source Software is currently applicable in media production.



Seminar

13:00 – 14:00

Lunch

14:00 – 14:30

Cost effective file-based production

David Kirby, BBC, United Kingdom

The BBC is involved in numerous Open Source projects ranging from video codecs to projects developing cost effective file-based workflows. Open Source tools have been tested on high-end productions. David Kirby will tell you how they worked.

14:30 – 15:00

Open post-production, tested in Hollywood

Vassili Leonov, Linux Media Arts, USA

Hollywood producers and some European broadcasters have discovered Open Source Software for high-end video editing and file management. Michael Collins will tell you how he is building powerful post platforms from off-the-shelf hardware and Open Source Software.

15:00 – 15:30

Panel discussion

moderated by Michael Sparks

15:30 – 16:00

Coffee break

16:00 – 17:00

Session 3 – Video tools highlighted

Two Open Source video tools are presented. The first has reached cult status amongst creative artists, the second is currently in development and shows promising features.

16:00 – 16:30

3D animations with Blender

Ben Hodges, Tablechairwall, USA

As a powerful Open Source 3D Content Creation Suite, Blender has become the example of how successful Open Source products can be. Ben Hodges tells you about Blender's history and he will be showing you how open to all your creativity it is.

16:30 – 17:00

Developing a colour correction and effects package

Karsten Becker, Visual Media FX, United Kingdom

The Jahshaka project made its first milestone with the 3.0 core technology found in the Jahplayer. In this session we will talk about the difficulties Open Source projects face when they grow up. You will also see how this technology matures into an extensive color correction and visual effects tool.

17:00 – 17:30

Q & A session

moderated by Michael Sparks

17:30 – 19:00

Demos and drinks

On the ground floor demos of Open Source based applications are given



Demos planned

Ardour	Audio editing application	Daniel James (64 Studio)
Audacity	Audio editing application	Douglas Arellanes (MDLF)
Audio codecs	Audio compression	Mathias Coinchon (EBU)
Blender	3D content creation suite	Ben Hodges (Tablechairwall)
Campcaster	Radio play-out	Douglas Arellanes (MDLF)
Campsite	CMS & Newsroom system	Douglas Arellanes (MDLF)
Chillout	Open source DRM platform	Filippo Chiariglione (CEDEO.net)
Cinelerra	HD and SD non-linear editor + storage	Michael Collins (LMA)
Distribution platform	for DAB/DMB/DRM	François Lefebvre (CRC)
Flumotion	streaming media server	Thomas Vander Stichele (Fluendo)
Ingex	Automated tapeless production	David Kirby (BBC)
Jahshaka	Video colour correction tool	Karsten Becker (Visual Media FX)
Linux Media Labs		Leonov Vassili
MMBase	AV-aware content management system	Jo Lahaye (MMBase)
OpenJPEG	OS JPEG2000 SD/HD video codec	Adi Kouadio (EPFL)
PrestoSpace	Video-indexing, search & retrieval, etc.	Giorgio Dimino (RAI)
Ruby on Rails	Information aggregation platform	Werner Ramaekers (VRT)
Tribler	P2P video distribution platform	Freek Zindel (TU Delft)
VHS2.0		

Tuesday 2 October 2007

09:00 – 10:30 Session 4 – Audio codecs and post production

The session provides an overview of some of the tools available on the market for audio production, compression, and play-out. The speakers report on the latest available codecs and other software needed to set up, e.g. a radio station.

09:00 – 09:30 Using Open Source to promote an EBU standard Sonja Langhans and Andreas Metz, IRT, Germany

The EBU N/ACIP Group is specifying an Audio Contribution over IP standard. The use of Open Source in this work is intended both to promote the standard and to enable easy development of a reference implementation by interested parties.

09:30 – 10:00 Compressing and streaming with Open tools Mathias Coinchon, EBU, Switzerland

For audio compression you can use codecs such as Ogg/Vorbis and FLAC. To stream you could pick Icecast or VLC. This session examines the use of such Open tools in a broadcasting



Seminar

environment.

10:00 – 10:30

Ardour 2 – A Digital Audio Workstation (DAW)

Daniel James, 64 Studio, United Kingdom

Ardour is a mature open source DAW, available for both Linux and OS X. Daniel James will demonstrate how the application works with other real-time Linux audio tools, using the Jack server. He will also discuss the requirements for using this DAW, how to install it, and where you can get support.

10:30 – 11:00

Coffee break

11:00 – 12:30

Session 5 – Play-out and distribution platforms

Last but not least playout and distribution platforms as the final link to the audience. The following three presentations give examples of what can be done using OS components.

11:00 – 11:30

Running a radio station on Campcaster

Douglas Arellanes, Media Development Loan Fund, USA

Campcaster is a tool for managing radio broadcasts and archives. It is one of the applications in the 'Radio Package' that is essentially a Radio Station in an (open) box. The software is in use by various broadcasters and Douglas Arellanes will tell us why.

11:30 – 12:00

Multimedia Broadcasting Platform

François Lefebvre, CRC, Canada

The DAB/DMB/DRM broadcasting platform from CRC is a combination of tools used as a foundation for the development of new broadcast applications and technologies. Ideally, system building blocks should be flexible enough to allow for improvements and new functionalities. François Lefebvre has been there and found that Open Source is a key ingredient to achieve these goals.

12:00 – 12:30

Ruby on Rails: "mashups" on the fly

Werner Ramaekers, VRT, Belgium

This aggregation framework allows the VRT to use existing services (e.g. YouTube, Google, etc.) for their Internet presence and quickly build mashups. Werner Ramaekers will demonstrate the power of Ruby by creating a mashup during his presentation!

12:30 – 14:00

Lunch

14:00 – 17:00

Session 6 – Tutorials

Three time slots are available for parallel tutorials on a selection of Open Source Audio and Video tools. The tutorials are given in separate rooms. The seminar ends at 17:00. Slot 1: 14:00 - 14:50, slot 2: 15:00 - 15:50, slot 3: 16:00 - 16:50.

Tutorials

1. Ardour	Audio editing application	Daniel James (64 Studio)
2. Blender	3D content creation suite	Ben Hodges (Tablechairwall)
3. Campcaster	Radio play-out	Douglas Arellanes (MDLF)
4. Cinelerra	HD and SD non-linear editor + storage	Michael Collins (LMA)
5. Jahshaka	Video colour correction tool	Karsten Becker (Visual Media FX)



General information

Language

The seminar will be held in English.

Registration

The on-line registration form is available on: www.ebu.ch/opensource/registration.php

The EBU will send you a confirmation together with further information.

Registration fee

Registration fee covers lunches, refreshments and proceedings but it does not cover hotel accommodation.

An invoice will be sent to you by post. Payment is due upon receipt of invoice by bank transfer to the account mentioned on the invoice. Cancellations will not be refunded but we would be pleased to welcome an alternative delegate.

EBU Active Members: EURO 99

EBU Associate Members: EURO 149

Non-members: EURO 199

Venue

EBU Headquarters
L'Ancienne-Route 17A
CH-1218 Grand-Saconnex / Geneva

Hotel accommodation

Block bookings have been made in hotels located close to the EBU and international airport. Hotel reservations should be made on an individual basis. Please send an e-mail to the hotel of your choice.

Hotel booking deadline: 15 September 2007. Beyond this date, we no longer guarantee hotel availability.

IBIS Genève Airport

10, Chemin de la Violette
1216 Genève Cointrin

Tel: +41 22 710 95 00

E-mail: h3535@accor.com
www.accorhotels.com

Price

single or double room: CHF 137.-
breakfast: CHF 14.-
local tax: CHF 2.55

Ramada Park Hotel

75-77, Av. Louis Casai
1216 Genève Cointrin

Tel: +41 22 710 30 00

E-mail: resa@ramadaparkhotel.ch
www.ramadaparkhotel.ch

Price

single room: CHF 187.-
breakfast included
local tax: CHF 3.60

Crowne Plaza Hotel Geneva

34, Rte François Peyrot
1218 Grand-Saconnex

Tel: +41 22 747 02 02

E-mail: reservations@cpgeneva.ch
www.geneva.crowneplaza.com

Price

single room: CHF 205.-
breakfast: CHF 34.-
local tax: CHF 4.25

Cancellation policy

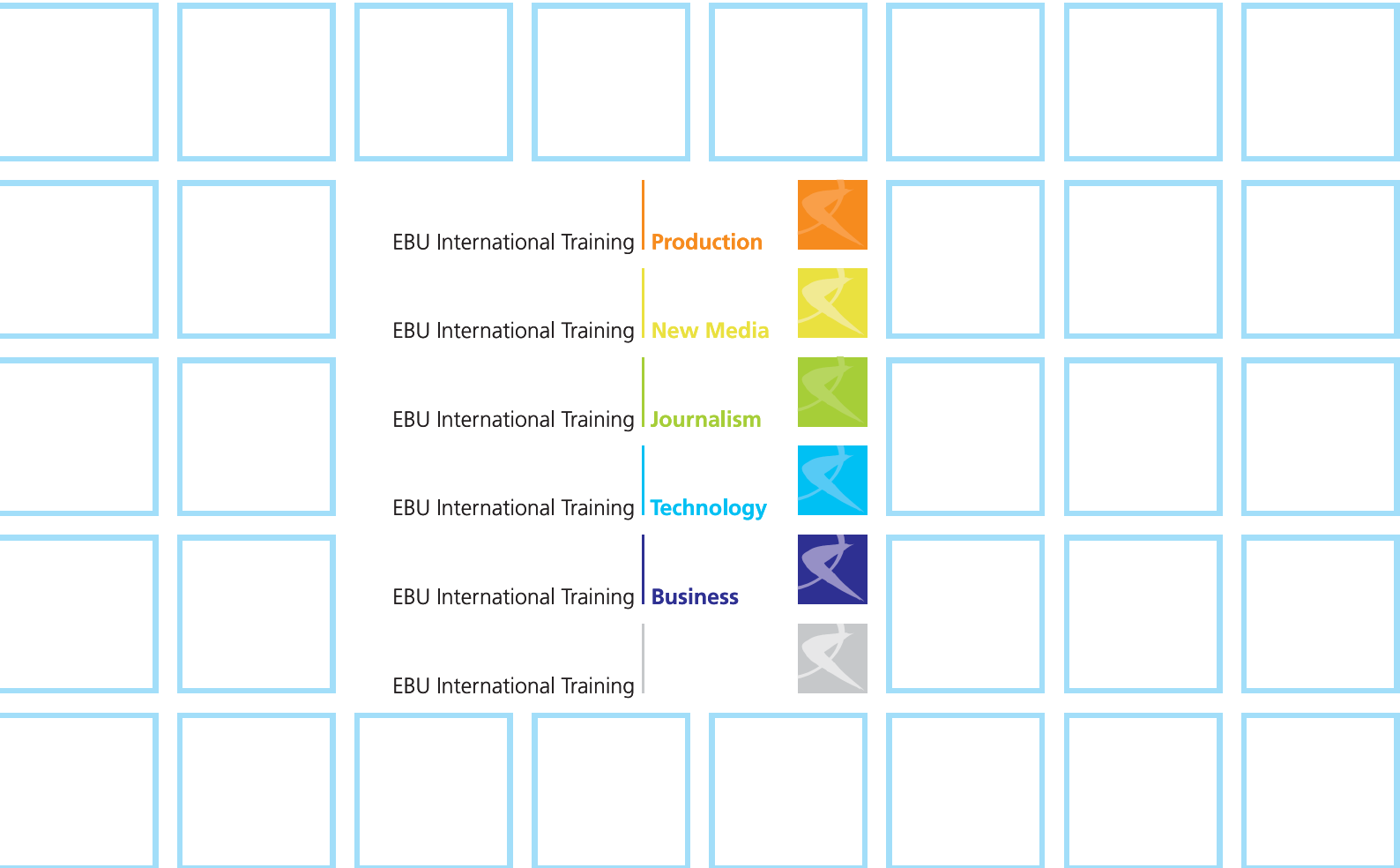
Cancellation within 24 days prior to arrival and no show: the total amount for the duration of the stay will be charged.

Contacts

Hélène Rauby-Matta
Project Manager
EBU International Training
Tel: +41 22 717 21 24
E-mail: raubymatta@ebu.ch

Frans de Jong
Senior Engineer
EBU Technical Department
Tel: +41 22 717 27 22
E-mail: dejong@ebu.ch

Mathias Coinchon
Senior Engineer
EBU Technical Department
Tel: +41 22 717 27 16
E-mail: coinchon@ebu.ch



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Hélène Rauby-Matta
Project Manager
EBU International Training

tel: +41 22 717 21 24
fax: +41 22 747 41 24
e-mail: raubymatta@ebu.ch
www.ebu.ch/training

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