Opencast, the Opencast Community, and (Opencast) Matterhorn
REPLAY – status quo

- Solution for management of audiovisual objects
- Open Source
- REPLAY 0.7 about to be released
- Operative at ETH Zurich February 16th 2009
- www.replay.ethz.ch

- Project ends June 30th 2009
Opencast (OC) – the idea

• Opencast is an initiative driven by higher education institutions to empower…

• … **institutions** to make informed choices about capture, processing, and distribution infrastructure for audio/video,

• … **faculty** to teach courses and share knowledge with their students and learners worldwide without technology getting in the way,

• … **students** to access and shape media into a more meaningful tool for learning,

• … **everyone** to easily find and engage with educational video, audio, and other rich media from instructors and institutions around the world.
Opencast Community (OCC)

Federation of institutions and people

• attracted to the Opencast idea
• exchanging ideas, experience, and knowledge
• committed to building an Open Source solution
  putting into effect the OC idea
OCC – mission statement

Build and deliver an
• Open Source
• enterprise-level
• integrated and interoperable
framework to
• produce,
• process,
• distribute,
• and preserve
audiovisual objects
Directory of Opencast Community Organizations

Add your organization to the directory.

Asia/Pacific
- Australian National University
- Monash University
- Tongji University

Europe
- Cambridge University
- ETH Zurich
- Freie Universität Berlin
- Open University
- Open University of Catalonia
- OGG Watch
- Oxford University
- River Valley Technologies
- SWITCH
- Universidad Carlos III de Madrid
- Universita` di Torino
- University of Copenhagen
- University of Geneva
- University of Lyon 2
- University of Nottingham
- University of Osnabrück
- University of Oxford
- University of Vigo
- Videolecures.net
- YouTVO

Middle East
- Tel Aviv University Computing Division

North America
- Case Western University
- Columbia University
- Georgia Tech
- Indiana University
- International Computer Science Institute
- Massachusetts Institute of Technology
- Northwestern University
- Pace State University
- Stanford School of Medicine
- University of California Berkeley
- University of California San Diego
- University of Nebraska-Lincoln
- University of Saskatchewan
- University of Toronto
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- Cambridge University  
  UK
- ETH Zurich  
  Switzerland
- Freie Universität Berlin  
  Germany
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  Spain
- OGS-Watch  
  Switzerland
- Oxford University  
  UK
- River Valley Technologies  
  UK
- SWITCH  
  Switzerland
- Universidad Carlos III de Madrid  
  Spain
- Università di Torino  
  Italy
- University of Copenhagen  
  Denmark
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  Spain
- University of Nottingham  
  UK
- University of Osnabrück  
  Germany
- University of Oxford  
  UK
- University of Vigo  
  Spain
- Videolecures.net  
  Slovenia
- Yarivco  
  Germany

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  USA
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- Massachusetts Institute of Technology  
  USA
- Northwestern University  
  USA
- Peck State University  
  USA
- Stanford School of Medicine  
  USA
- University of California Berkeley  
  USA
- University of California San Diego  
  USA
- University of Nebraska-Lincoln  
  USA
- University of Saskatchewan  
  Canada
- University of Toronto  
  Canada
Opencast Community Project

• Organizational framework for OCC
• The project was originated at UC Berkeley to establish a community of institutions dealing with audiovisual material in academia

• http://www.opencastproject.org/
Opencast Community | Project

If this is your first time visiting the Opencast website, we suggest:

1. Read About Opencast and the Mission Statement.
2. Pursue the Showcase files and the Best Practice Guidelines WIKI to see what organizations are doing in the realm of coursecasting.
3. Learn about Matterhorn, the Opencast build project.
4. Find out how to join Opencast Community!

Featured Posts

Update on the Opencast Matterhorn build project
Submitted by: Michelle

During the planning activities that have taken place throughout this past year, a group of institutions from the Opencast community have come together and made a commitment around an Opencast build project. These partners are in the process of developing a proposal to build an open source podcast and rich media capture, processing and delivery system. The system has been named Opencast Matterhorn.

REPLAY 0.5 released
Submitted by: michelle

We are happy to announce the next release of REPLAY, ETH Zurich’s solution to produce, handle, index, archive, and distribute audiovisual lecture recordings on a large scale.

Next Steps (and Deep Dive)
Submitted by: michelle

Thanks to all of you who attended the Deep Dive! From the final discussion, we pulled together the Next Steps list below. We’ve noted a “Lead” for each activity based on our understanding – please feel free to comment. More information to follow...

Architecture
Submitted by: michelle

See below the latest draft version of the Matterhorn Architecture.

Join Opencast
Submitted by: michelle

There are several ways to join the Opencast community or the Matterhorn project efforts.

Recent ListServ Posts

Title | Author | Posted
--- | --- | ---
recent attachment on agile1x_thread for digest subscribers | eddie | 11/16/2009
interesting agile1x and uuc | eddie | 11/16/2009
podcast digest, vol 14, issue 8 | mattiss | 11/15/2009
P2Psummer | call088 | 11/14/2009
Call for Data: Podcast Stats (usage patterns, etc.) and Educational Impact | eddie | 11/12/2009
Matterhorn: Win Java | Josh Holtzman | 11/13/2009
Matterhorn: Software distribution | Peter Robinson | 12/12/2009
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Google summer of code for opencast? | H H | 12/12/2009
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Opencast Matterhorn Built Project

Update on the Opencast Matterhorn build project

Submitted by Nickolaas on Mon, 12/09/2009 - 14:18

A grant proposal to support this project is still in development, and our ability to move forward with Opencast Matterhorn as we envision it is heavily dependent on being awarded this grant. However, we felt it appropriate to share an overview of the plans to date with the community.

**Matterhorn Vision**

The Opencast Matterhorn Project proposes to achieve the following:

- Matterhorn partners will define, design and produce an enterprise-level, easy-to-install open source podcast and rich media capture, processing and delivery system.
- Matterhorn will lower the technical and cost barriers to scalable podcast deployment and increase the potential for universities to integrate rich media content into their teaching, learning, research, and knowledge-sharing environments.
- Matterhorn will be designed in such a way that it can be easily installed and implemented as an end-to-end system.
- Matterhorn will be highly configurable and services-based, so that organizations can choose to implement only the components they need, or replace default service implementations with their own to meet specific institutional needs.
- User-facing components will be designed in such a way as to ensure a high-quality user experience.

These design considerations seek to meet the podcast and media capture, delivery and archive needs of organizations across the spectrum - from those who have no existing infrastructure to those who want to extend the capabilities of an existing system; from small colleges to large universities; from full service providers to individual departments.

**Matterhorn Partners**

The institutions below have agreed to commit resources to the project over the next 2 years. The grant, if awarded, will pay for a portion of the resources, but each institution has committed to contributing more than half of the resources on their own.

- University of California Berkeley, Educational Technology Services
- ETH Zurich
- University of Gdansk
- Cambridge University, Centre for Applied Research in Educational Technologies (CARET)
- Indiana University, University Information Technology Services
- Joseph Fourier Institute, Centre for Knowledge Transfer
- Knowledge Media Institute, Royal Academy of Engineering and Research Technologies (ART)
- Open University of Catalonia
- University of Copenhagen, Faculty of Humanities, TINREDA
- University of Nebraska-Lincoln
- University of Saskatchewan, University Learning Centre
- University of Toronto, Adaptive Technology Resource Centre (ATRC)
- University of Nijmegen, Information and Communication Technologies

**Proposed Technical Schedule**

- Phase 1: Kick Off (July 2009 – Sept 2009)

**Project Governance**

The Opencast Matterhorn project will combine aspects of the Apache model with some additional structure for the Matterhorn build project. We encourage a meritocratic, transparent, and inclusive approach to include the larger Opencast community wherever possible.

Of particular relevance to the Opencast community, three stakeholder advisory bodies will be formed (directorial, institutional, and technical). These bodies will provide guidance and input into the features, functions and key technology outputs from the project. If you have an interest in serving on one of these advisory bodies, we would welcome your participation. Please let us know if you have an interest.

**Interim Solution**

For those schools facing immediate pressure, the Opencast community will provide an immediate interim solution in ETH Zurich's REPLAY system and establish a migration path between REPLAY and Matterhorn. REPLAY is an open solution developed in Java to integrate, index, archive, and distribute audiovisual lecture recordings on a large scale. An anticipated stable 1.0 version is scheduled for February 2009.
Opencast Matterhorn Built Project

- "Community source"¹ project to build Matterhorn
- Mellon Foundation Grant
- Hewlett co-funded
- Scheduled start: July 2009

¹ Cf. http://www.oss-watch.ac.uk/resources/communitysource.xml
OCMBP - consortium

- UC Berkeley
- University of Saskatchewan
- University of Nebraska-Lincoln
- Northwestern University
- Indiana University
- University of Toronto
- ETH Zürich
- University of Osnabrück
- Cambridge University
- University of Vigo
- University of Catalonia
- University of Copenhagen
- Jozef Stefan Institute
Matterhorn timeline

Phase 1
Kick Off (July 2009 – Sept 2009)

Phase 2

Phase 3
Status quo
Status quo

- PuMuKIT
- SURFmedia
- REPLAY
- virtPresenter
- …
Opencast Community - topics

- Metadata
- Standards
- (Archive) Strategies
- Intellectual Property Rights – Open Access
- Matterhorn
- …
Matterhorn architecture (draft)
Contact

http://www.opencastproject.org/

http://www.replay.ethz.ch

schulte@id.ethz.ch
Abbreviations

- OC: Opencast
- OCC: Opencast Community (federation of institutions)
- OCCP: Opencast Community Project (Project)
- OCM: Opencast Matterhorn (Product)
- OCMBP: Opencast Matterhorn Built Project (Project)