

Results: Services

Shot boundary detection
Key frame extraction
extraction of visual activity and features
Concept and action detection
Genre classification
Face detection
Quality analysis
(noise, sharpness, video breakup)
Monochrome frames and test patterns
Near duplicate detection
Sports highlight detection and view classification
Player detection and identification
Logo detection
Audio segmentation and speaker
clustering
Spoken language identification
Automatic speech recognition (EN, IT, DE, NL)
Machine translation
(DE-EN, NL-EN, DE-IT, EN-IT)
Named entity detection
Names and faces alignment
Result visualisation and verification
Manual annotation
Semantic indexing and search

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TOSCA^{MP}



**Task-oriented search
and content annotation
for media production**

www.tosca-mp.eu

TOSCA-MP is a project under the 7th Framework Programme of the European Union,
running from October 2011 to March 2014.



Objectives

Develop user-centric content annotation and search tools for professionals in networked media production

Create tools adapting to user's tasks and context and use their feedback to improve metadata extraction

Increase productivity in the exchange and use of heterogeneous digital content

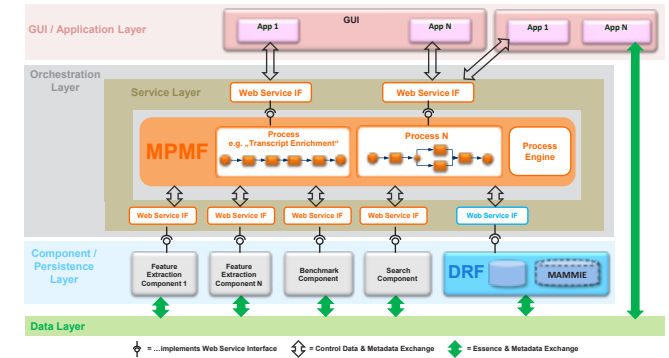
Approach



Starting from 10 business goals representing high-level objectives to be achieved by stakeholder such as broadcasters or service providers the project has defined 15 related scenarios in four categories: content access & retrieval, assisted production, news service distribution, and infrastructure (repositories). Based on descriptions of high-level tasks in media production workflows collected from users, formal task models have been devised. These models are the basis for automated generation of business process descriptions for service orchestration and validation of tools in different media production scenarios.

Results: Architecture

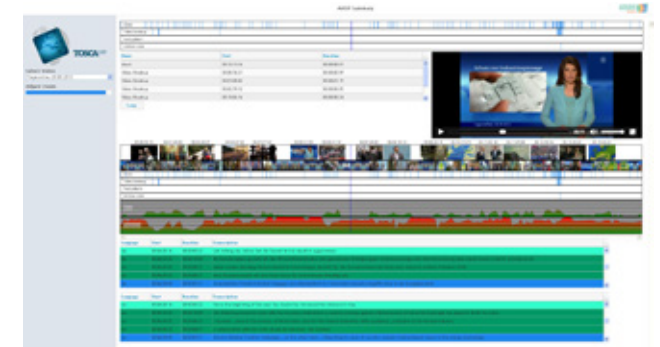
We have developed a flexible framework for service execution following service oriented architecture (SOA) principles. Service orchestration is based on task models and adapts the execution to results of previous services. The architecture is compatible with the EBU/AMWA Framework for Interoperable Media Services (FIMS).



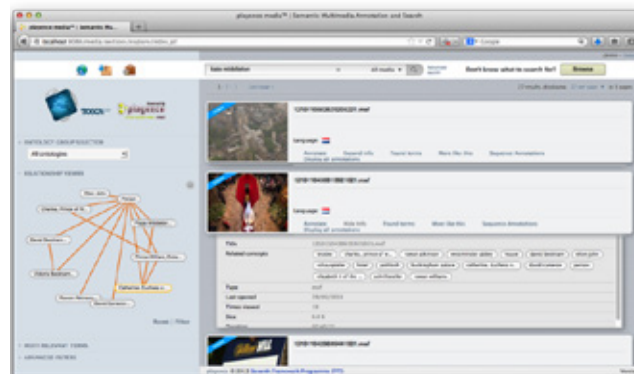
Results: User Interfaces



Control & configuration application



Analysis result visualisation and verification



Semantic search & retrieval user interface



Search result visualisation