

## **WEBLAB**

### *INTEGRATION PLATFORM FOR MULTIMEDIA INTELLIGENCE APPLICATIONS*



#### **Project Name**

- WebLab

#### **Category**

- Application platform

#### **License**

- LGPL

#### **Community**

- EADS
- CEA

#### **Professional Support**

- EADS

#### **Key Words :**

- Integration Platform
- SOA
- RDF
- WS-BPEL

*WebLab is the leading edge Open Source implementation by OW2 of an SOA integration platform designed by EADS.*

#### **Innovative**

Leading edge architecture resulting from the cooperation between EADS and the contribution of a research institute CEA.

- WebLab is designed with a service oriented architecture to provide a dynamically adaptable application platform
- WebLab is quickly growing its services base. It already provides an efficient pluggable and easy to use media processing services
- The WebLab OW2 Project provides a graphical tool for deploying and monitoring media processing services

#### **Enterprise Class**

WebLab is a mature product (started in 2004), it provides a production-ready application platform, already used within many operational applications.

- WebLab ease the use of semantic enrichment of multimedia documents
- WebLab provides cross-media indexing and retrieval methods
- WebLab scalability has been validated on large dataset; it indexed up to 10 000 hours of television programs and more than ten million of political/societal news and images
- WebLab Application can be easily enriched or customised through the adaptive search and information presentation

#### **Community Driven**

For each evolution, the WebLab team launch a community survey to gather user requirements before defining the new application platform architecture.

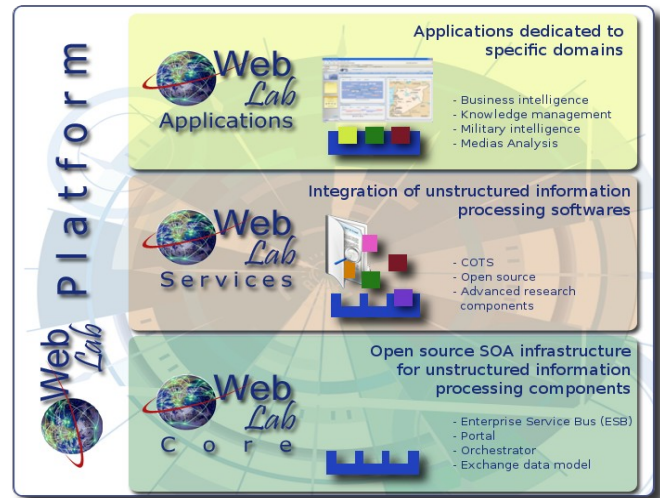
- Developments priorities: the WebLab development is standard driven the roadmap is continually adjusted to the most required features.
- Responsiveness: twice a year, a new WebLab release is delivered with the last enhancements ensuring a quick availability of the functionalities with highest priorities.

#### **SOA-Ready**

WebLab platform rely on a "Service Oriented Architecture" (SOA) as the core paradigm for the design and integration of components through its cooperation with the OW2 community. Other leading OW2 projects such the Orchestra BPEL engine and the eXo Platform portal are integrated into the WebLab platform.

## The WebLab Architecture

- Standardized interfaces** to ease the integration of multimedia processing services
- Access:** it enables the users to activate business processes and interact with the system in order to achieve the processes.
- Process:** it allows designing and executing application such as a work flow using an orchestration engine. It contains an editor enabling to define service chain and tools to support deployment, configuration and management through GUI components.
- Service Access:** it is composed with binding components which allow connecting the multiple software elements.
- Business Services:** it includes all external software elements which realise the business process such as crawling, analysing and eventually performance measurements components.
- Data:** it represents the sources used as system input and the repositories where processed data is stored for further exploitation.
- Infrastructure:** it contains the operating system and virtualization tools.
- Security mechanisms** to manage access rights to services and ensure confidentiality and integrity of exchanged data
- Technical administration** and monitoring applications that allow controlling the processing chains execution (service availability, lack of errors, etc.)



## Key Features

- Web Services;
- Text, Audio, Video processing;
- Portlet portal
- Scalability;
- Interoperability;
- Security support;
- Loosely-coupled;
- Coarse-grained;
- Standardized interfaces;
- State of the art processing services;
- Highly customisable user interface;
- Ready to deploy application package

PROJECT DETAILS



## Professional Support



[www.eads.com](http://www.eads.com)

## OW2

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## About OW2

Founded in January 2007 as a result of the merger of ObjectWeb and OrientWare communities, OW2 is an independent industry consortium dedicated to developing open source code middleware and to fostering a vibrant community and business ecosystem. Building on the legacy of ObjectWeb and OrientWare, OW2 federates more than one hundred organizations and 6000 developers in Europe, Asia and the Americas. OW2 hosts over one hundred technology Projects, including Lomboz, Sync4j, eXo Platform, XWiki, SpagoBI, JonAS and WebLab. Several of the OW2 projects are combined into market-driven Initiatives, such as the ESB/SOA Initiative and the Business Intelligence Initiative, which facilitate their implementation by systems integrators, OEMs and end-users. A typical global open-source organization, OW2 aims to bring together grassroots communities across all continents through Local Chapters. [More information about OW2 is available at http://www.ow2.org](http://www.ow2.org)

