



Development Guide

Introduction

Version 2.0

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WebLab Collaborative development guidelines

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COVER AND CONTROL PAGE OF DOCUMENT	
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1 Objectives

The WebLab platform is the generic name of the development and execution environment platform provided by EADS in several research projects ([VITALAS](#), [WebContent](#), [e-Wok-Hub](#), CITRINE...) involving the process of several types of media.

This document is composed of 7 chapters. It can be read by anyone interested in the process of web services development or portlet development since it browses many of web services and portlets features.

One can note that this tutorial is not intended to be read by non-programmer since it relies on (not so) strong basic capability in programming languages and web application architecture.





This document is composed of the 7 following chapters :

- Introduction to the WebLab Development Kit (current document),
- Architecture of the WebLab platform,
- Tutorial overview and description of the development kit content,
- WebLab Services Development Tutorial,
- WebLab Portlets Development Tutorial,
- WebLab Services and Portlets Integration Tutorial,
- General Installation information.

2 Related documents

- Evolution request sheet
- Component description sheet

3 Development guide pictorial semantic

	Focus on a critical step
	Use to highlight some information
	Step reserved to Linux users
	Step reserved to Windows users

4 Vocabulary and definitions

In the following sections some ambiguous terms will appear. Here is the reference for their sense in the context of this document :

API	Application programming interface.
Component	piece of software developed by a partner and which should be integrated into the platform
ESB	Enterprise Service Bus which is a software infrastructure to connect a set of heterogeneous software components.
Orchestrator	Component dedicated to the orchestration of services and thus the definition of processing chain.
POM	Project Object Model, the fundamental unit of work in Maven.
Technical service	Service which could be embedded or not in the ESB and providing a common technical functionality used by most of the services.
Service	Piece of software which embed a component and provide the component functionality as a service (i.e. as much independent from other components as possible). It can be a part of a processing chain and require some pre-processing.
Service engine	Software component embedded in the ESB which realize technical process such as distribution or orchestration.
Service interface	Definition of the input and output data for each method proposed by a service (see service interface definitions)
SOAP	Simple Object Access Protocol (W3C standard)
WebLab	Name of the platform composed among other by the ESB, the data exchange model and the portal
Web server	A server which can handle HTTP request/response and thus host web services
Web service	W3C standard defined to allow client and server components to communicate using XML messages. It is based on the Web service description language (WSDL) and use the SOAP protocol
WSDL	WSDL (Web Services Description Language) document describes the contract between the web service endpoint and the client. A WSDL document may include and/or import XML schema files used to describe the data types used by the web service (W3C standard)
XSD	XML Schema Definition (W3C standard)