



Project Acronym: OPTIMIS
Project Title: Optimized Infrastructure Services
Project Number: 257115
Instrument: Integrated Project
Thematic Priority: ICT-2009.1.2 – Internet of Services, Software and Virtualisation

Programming Model Installation Guide

Activity 6: Integration and Experimentation

WP 6.1: Integration

Due Date:	M34
Submission Date:	31/03/2013
Start Date of Project:	01/06/2010
Duration of Project:	36 months
Organisation Responsible for the Deliverable:	Barcelona Supercomputing Center (BSC)
Version:	1.0
Status	FINAL
Author(s):	Francesc Lordan BSC



Project co-funded by the European Commission within the Seventh Framework Programme

Dissemination Level

PU	Public	X
PP	Restricted to other programme participants (including the Commission)	
RE	Restricted to a group specified by the consortium (including the Commission)	
CO	Confidential, only for members of the consortium (including the Commission)	



Version History

Version	Date	Comments, Changes, Status	Authors, contributors, reviewers
1.0	2013-03-15	Document creation	Francesc Lordan



Table of Contents

1	INTRODUCTION	5
1.1	GLOSSARY OF ACRONYMS.....	5
2	<COMPONENT NAME> INSTALLATION GUIDE	6
2.1	RELEASE INFORMATION	6
2.2	MINIMAL SYSTEM REQUIREMENTS	6
2.3	PLATFORMS SUPPORTED	6
2.4	SOFTWARE PRE-REQUISITES AND DEPENDENCIES.....	6
2.5	INSTALLATION INSTRUCTIONS	7
2.6	GETTING STARTED	7
2.6.1	<i>Using the Software</i>	7
2.6.2	<i>Testing the Software</i>	7
2.6.3	<i>Configuration</i>	8
2.7	FAQ	8

Index of Tables

Table 1	Software dependencies.....	7
---------	----------------------------	---



1 Introduction

This document includes the installation guide for the software component Programming Model.

Section 2 describes the minimal systems requirements, software dependencies and supported platforms for the current release of the component. The section also contains the instructions to install the software component. Further references can be found in Section 3.

1.1 Glossary of Acronyms

Acronym	Definition
D	Deliverable
WP	Work Package



2 Programming Model Installation Guide

2.1 Release information

Component Name	Release Number	Release Date
Programming Model	3.0	2013-03-15

2.2 Minimal System Requirements

2.3 Platforms Supported

The current version of the Programming Model is tested and supported for any Linux OS distribution that supports Java JDK 1.6 or greater.

2.4 Software Pre-requisites and Dependencies

Product	Version	Licence
service-manifest-api (OPTIMIS component)	1.0.8-SNAPSHOT	GNU Lesser General Public License
service-manifest-jaxb (OPTIMIS component)	1.0.8-SNAPSHOT	GNU Lesser General Public License
service-manifest-schema (OPTIMIS component)	1.0.8-SNAPSHOT	GNU Lesser General Public License
service-manifest-xmlbeans (OPTIMIS component)	1.0.8-SNAPSHOT	GNU Lesser General Public License
ServiceManagerRestClient (OPTIMIS component)		GNU Lesser General Public License
ServiceManagerSchema (OPTIMIS component)		GNU Lesser General Public License
ServiceMonitoring (OPTIMIS component)	0.0.1	GNU Lesser General Public License
Java	1.6	GPL
Javassist	3.16	MPL, LGPL, Apache
JavaGAT	2.0.2	BSD



JAX-WS		CDDL v1.1 and GPL
Apache CXF		Apache 2
Xalan		Apache 2
Xerces		Apache 2
Log4j		Apache2

Table 1 Software dependencies

2.5 Installation Instructions

In order to install the Optimis Programming Model runtime in any host is necessary to perform the following steps.

1. Download the component using the following svn command:

```
svn checkout --username developername  
http://pandora.atosorigin.es/svn/optimis/branches/OptimisY3/ProgrammingModel
```
2. Get inside the runtime folder

```
cd runtime
```
3. Compile the runtime using ant

```
ant it
```
4. Ensure that there is an already existing keypair without password. If not, a new one must be created by using the ssh-keygen tool

```
ssh-keygen -t dsa -P ""
```
5. Initialize the IT_HOME variable to the execution environment with the runtime folder path (recommended to be saved permanently.)
 - In Linux, the following line should be added to the .bashrc file (or equivalent if using another shell)

```
export IT_HOME=absolute_path_to_the_runtime_directory
```
 - In Windows, a new user environment variable should be added on the Advanced Properties of the System

2.6 Getting started

2.6.1 Using the Software

See user manual.

2.6.2 Testing the Software

See user manual.

2.6.3 Configuration

See user manual.

2.7 FAQ

N/A