PIM4SOA metamodel



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1. Description

The PIM4SOA metamodel defines an abstract language to specify executable business processes that execute within an enterprise and may collaborate between otherwise independent business processes executing in different business units or enterprises.

The main objective of the specification is:

• The ability to exchange business process specifications between modelling tools, and between tools and execution environments.

PIM4SOA is closely aligned and has been based on the Business Process Definition Metamodel that is in the process of standardization by OMG. However as the standardization did not completed in the timeframe of Athena the PIM4SOA metamodel was developed as a simplified version.

The PIM for SOA metamodel covers four important aspects: service, process, information and quality of service.

- Information: in the context of virtual enterprises information represents one of the most important elements that need to be described. In fact the other aspects manage or are based on information elements.
- Service: our main intention is to be able to describe SOA independently from the technology used. Service represents business accessible functionality.
- Process: processes describe a set of interactions amongst services in terms of messages exchange.
- QoS a suitable feature is the description and the modelling of non-functional aspects related with the services described.

2. Datasheet

Name of result	PIM4SOA metamodel
Contact	Xabier Larrucea
Contributors	ESI, SINTEF
Relationships to other projects	A1, A2, A5
Result type	Metamodel
Software deployment	Sources included
Publicly available	Object files available
Status	Prototype
Summary of functionality	In order to reduce the gap between enterprise

3. Installation guide

The PIM4SOA has been implemented as a plugin for its use in the Eclipse platform. Other ATHENA tools need to have installed this plugin.

3.1. Requirements

External dependencies:

• The Eclipse platform (version 3.1) downloadable from: http://www.eclipse.org/downloads

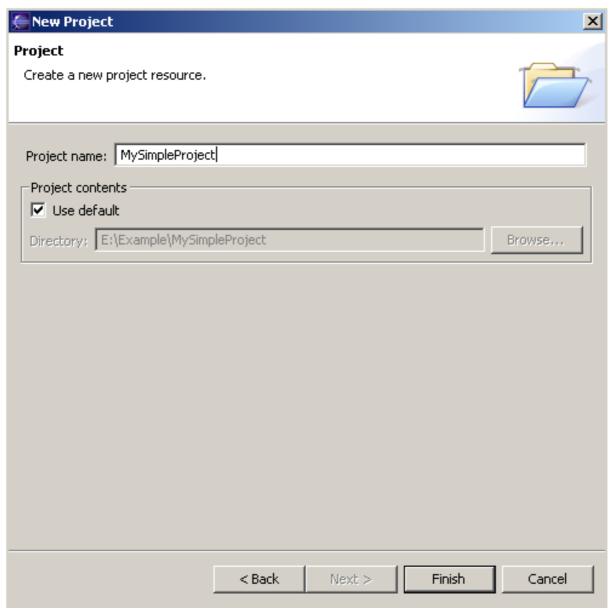
3.2. Update manager site

Follow the instructions described here.

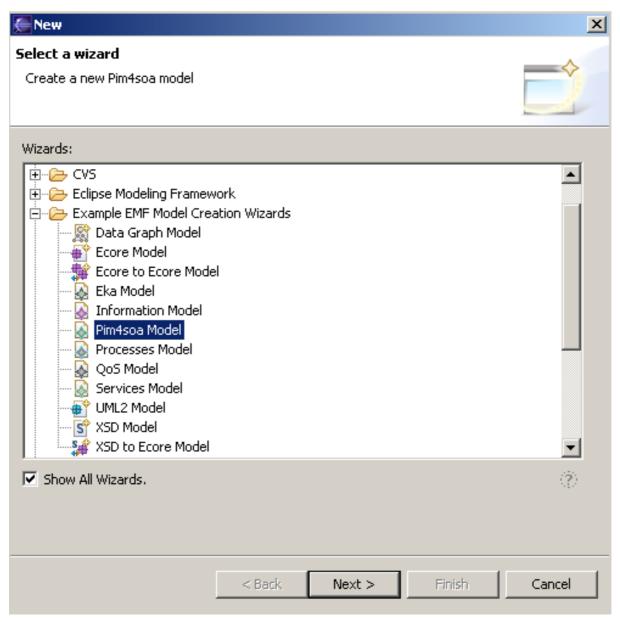
4. User guide

Having installed this plugin, users can edit PIM4SOA models. This plugin provides a basic EMF (Eclipse Modelling Framework) editor to instantiate PIM4SOA models. The following steps steer users to create a PIM4SOA model:

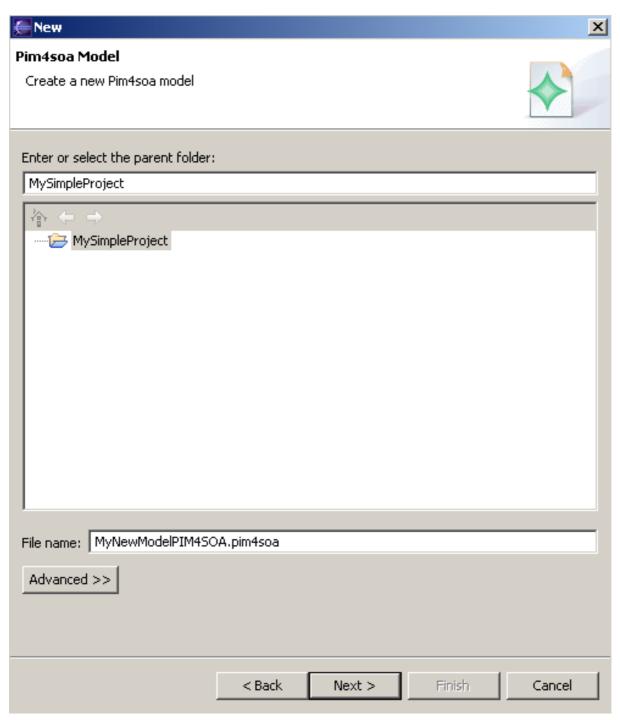
• Create a new empty project in the Eclipse workspace File->New->Project->SimpleProject



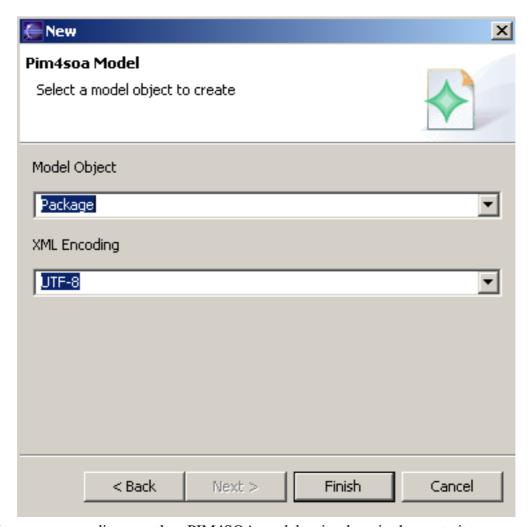
- Create a PIM model File->New->Other and then check "Show all wizards"
- And then select Example EMF Model Creation Wizard -> Pim4soa model as it is shown in the picture below



• Assign the new PIM4SOA model to the SimpleProject created previously.



• Create the root for the PIM4SOA model (package).



• Users can now edit correctly a PIM4SOA model as its show in the next picture

