D7.3v1.0 Mission Statement - WSMX

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Editors:
> Armin Haller

Authors:
> Armin Haller Michal Zaremba

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1. Mission Statement

It is our mission to create an execution environment for the dynamic discovery, selection, mediation, invocation and inter-operation of Semantic Web Services. Our platform called Web Services Execution Environment (WSMX) is going to

be a sample implementation of the Web Services Modelling Ontology (WSMO) which describes all aspects of Semantic Web Services.

Our goal is to provide both a testbed for WSMO and to demonstrate the viability of using WSMO as a means to achieve dynamic inter-operation of Web Services. The development process for WSMX includes:

- defining its conceptual model;
- defining the execution semantics of the system;
- defining the system architecture;
- designing the software and providing its implementation.

Following a top-down, component based development approach, WSMX will provide a whole framework capable of carrying out in the future, the dynamic discovery, mediation, selection, invocation and inter-operation of Web Services. From the beginning we aim to include all the basic components of the WSMX platform, providing complete implementation for them in the later stages of the project. This is why the first version of WSMX platform will be based on a subset of the WSMO standard ontology. The final scope of WSMX will be the domain defined by WSMO Standard and WSMO Full ontologies.

The subset of the WSMO data model allows the implementation of a simple extensible framework to execute basic Semantic Web Services. This framework will be designed in such a way that any later extension and improvement of the functionality should be easily possible. The strong component decoupling allows new components to be plugged in and provides opportunities to achieve richer functionality. Each subsequent version of WSMX will extend and improve the functionality of the components of the framework until it reaches the full Semantic Web Services support.

The WSMX working group is open for any new members. We aim to bring together research groups, research projects, software developers and user communities to build the complete Semantic Web Services execution environment.

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webmaster