



D13.5v0.1 WSMX Implementation

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Executive Summary

The Web Service Modeling Execution (WSMX) is the implementation of a web service execution environment based on the concepts and relations defined in WSMO. The WSMX Implementation deliverable will provide software supporting the development, management and execution of Semantic Web enabled Web Services based on WSMO. The first version of WSMX will focus on the concepts that are included in WSMO-lite. Subsequent versions will provide support for WSMO-Standard and, eventually, WSMO-Full.

WSMX itself will be implemented as a collection of components implemented as web services with the interfaces provided by each component defined by WSDL. All WSMX concepts used in the WSDL interfaces will be described in accordance with WSMO. Additionally the execution semantics (formal definition of the operational behaviour) of WSMX will be provided by WSMO.

The WSMX Implementation Deliverable will bring together the work described in the deliverables of WSMO activity 13. The conceptual model [[Cimpian et al., 2004](#)] provides the descriptions of all elements used in the software. The design and coding of the message interaction patterns will follow the formal model described by the execution semantics [[Oren et al., 2004](#)]. The WSMX Mediation [[Mocan et al., 2004](#)] provides the design for mediation while the architecture [[Zaremba et al., 2004](#)] will define the different software components of WSMX and their public interfaces.

The implementation of WSMX will act as a WSMO testbed. Issues and solutions encountered in the course of the software design and development will provide a valuable source of feedback to the [WSMO working group](#).

References

[Cimpian et al., 2004] Cimpian E., Mocan A., Moran M., Oren E., Zaremba M. (2004). WSMX Conceptual Model. WSMO Working Draft v0.1, Digital Enterprise Research Institute (DERI), available from <http://www.wsmo.org/2004/d13/d13.1/v01>

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[Zaremba et al., 2004] Zaremba M., Oren E., Cimpian E., Mocan A., Moran M. (2004). WSMX Architecture. WSMO Working Draft v0.1, Digital Enterprise Research Institute (DERI), available from <http://www.wsmo.org/2004/d13/d13.4/v01>

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