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Service Oriented Architecture Governance Using Semantics and BPMN

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ABSTRACT
This talk will present the results of pilot projects that have been conducted by the US Army and OSD AT&L. OWL/RDF were used to describe various data sources and to build an ontology of the domain where the data sources were in operation. The ontologies were developed using a semantic wiki. The ultimate use for the semantic descriptions is to semantically enable any Service Oriented Architecture (SOA) operated by the Department of Defense by using the semantics of the data sources and domain to define the services. In this way the services can be easily discovered and properly used. Further analysis of the domain of the SOA can be performed by using SPARQL to query the resulting knowledge base. BPMN (Business Process Modeling Notation) was used to define the governance processes required to insure that the project was conducted in accordance with data governance policies as defined by OSD. The BPMN models were executed by a BPM (Business Process Management) execution engine that was interfaced to the semantic wiki. A dashboard was developed that facilitated the monitoring and enforcement of the governance policies in real-time by the executives funding the pilot and the managers of the project.

PRESENTER
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PRESENTER BIOGRAPHY
Mr. Lang is Founder and Chairman of Revelytix, Inc. Founded in 2005, Revelytix has developed a set of semantic development and collaboration tools that leverage ontology development and knowledge management to drive integration. Mr. Lang has been focused on the data integration and system interoperability space for the last 15 years of his career. Prior to founding Revelytix, Mr. Lang co-founded MetaMatrix, an Enterprise Information Integration (EII) company in 1998. MetaMatrix was
purchased by Redhat in May of 2007. Earlier on in his career, Mr. Lang was President of NSSI, a CAD software company that was purchased by Network Imaging. Prior to NSSI he worked in the financial information industry for Bridge Information Systems and Reuters Information Systems, where he ran sales and strategy for financial information and analysis products. Most recently he has been consulting in the area of semantic technologies to a number of public and private entities including BEA Systems. He is a graduate of Washington College, with a BS in Chemistry.