PIM4SOA Execution and Simulation Platform

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Table of contents

1. Datasheet

Solution data	
Name	PIM4SOA Execution and Simulation Platform
Result type	Model Execution Platform
Description/functionality	• The model execution platform is a runtime environment for UML models. Since UML 2.0 provides rich behavioural semantics, the resulting models can be executed – just as any application, created with the help of a common programming language. The model execution platform provides a generic extensible model execution engine. The engine provides mechanisms for the realization of behavioural semantics and the execution and observation of model behaviour. • The runtime environment permits creation of a set of design time support tools – debuggers, test generators, etc. all of which use the model execution engine to predict model behaviour. • The platform is being developed as part of the MODELWARE project. ATHENA contribution contains implementation of interoperability related features and PIM4SOA support. • Execution of models, described with the help of the UML profile for PIM4SOA.
Benefits to interoperability	Execution of PIM level models, permits vizualization of the execution of the interoperating solution at the abstract level
Supported models/methodologies	-
Supported input interfaces	-
Supported output interfaces	-
Validation/demonstration	To be used on the aerospace scenario.
Standards compliance	-
Availability	Installed service/solution
License	Awaiting licence confirmation
Status	Prototype
Requirements/dependencies	Rational Software Modeler or Software Architect, UML profile for PIM for SOA, Model Execution Engine plugin for Eclipse

Web references	-
ATHENA metadata	
Contact person	Sergey Olovsky, IBM
Contributors	IBM
Provided by project/activity	• A6 – Model-driven and Adaptive Interoperability Architectures
Deliverables representing result	-
Contribution to key result	• 13. Model-driven and Adaptable Interoperability Framework and Infrastructure
Used in pilot	-
Deliverable providing evaluation	-