ATHENA Model-Driven Interoperability (MDI) Framework

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1. Datasheet

Solution data		
Name	ATHENA Model-Driven Interoperability (MDI) Framework	
Result type	FrameworkMethodology and guidelines	
Description/functionality	Model-driven development (MDD), and in particular OMG's Model Driven Architecture (MDA), is emerging as the state of practice for developing modern enterprise applications and software systems. The MDD paradigm provides us with a better way of addressing and solving interoperability issues compared to earlier non-modelling approaches.	
Benefits to interoperability	The ATHENA Model-Driven Interoperability (MDI) Framework provides guidelines for how model-driven development (MDD) approaches can be applied in developing interoperable enterprise software systems.	
	A reference guide that documents the purpose and concepts behind the model-driven interoperability results from ATHENA A5 and A6 in particular, and how to apply them. The reference guide does not cover the usage of the ATHENA A5 and A6 tools, but focuses on principles and methods.	
	The MDI framework aims at providing guidelines for the following topics:	
	 Model-driven architecture (MDA) and interoperability Metamodelling UML profiles and domain-specific languages (DSLs) Model transformations Method engineering 	
Supported models/methodologies	-	
Supported input interfaces	-	
Supported output interfaces	-	
Validation/demonstration	MDI is used internally within A6 to develop the PIM4SOA models and tools. Results of SOI has been tested in the AIDIMA e-procurement scenario.	

Standards compliance	-	
Availability	-	
License	-	
Status	-	
Requirements/dependencies	-	
Web references	Website: http://modelbased.net/mdi/	
Composed of the following solutions		
Conceptual	-	
Applicative	-	
Technical	-	
ATHENA metadata		
Contact person	Brian Elvesæter, SINTEF	
Contributors	ESI, SINTEF, IBM, DFKI	
Provided by project/activity	A6 – Model-driven and Adaptive Interoperability Architectures	
Deliverables representing result	 D.A5.2: Model and Specification of service description and usage as well as advanced concepts (M18) D.A5.4: Execution Framework(s) for Planned and Customisable Service-Oriented Architectures (M21) D.A6.4 "Model-Driven and Adaptable Interoperability Infrastructure" (M24) Training material developed in B6, namely the courses AP1, AP2, AP3, AP4, AP5 and AP6. 	
Contribution to key result	 7. Guidelines and Best Practices 13. Model-driven and Adaptable Interoperability Framework and Infrastructure 	
Used in pilot	-	
Deliverable providing evaluation	 D.A5.5 "Validation of Research Results" (M24) D.A6.4 "Model-Driven and Adaptable Interoperability Infrastructure" (M24) 	