ARIS to PIM4SOA model transformation

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1. Datasheet

Solution data	
Name	ARIS EPC to PIM4SOA transformation (XMI Export)
Result type	Model transformation
Description/functionality	A set of transformations from ARIS Event-driven Process Chain (EPC) models to PIM4SOA with a focus on the requirements on CBPs. Given the immense role of ARIS for industry, there is a high interest in and impact of architectural and tool support for extending the scope of the conceptual extensions to ARIS for CBP from a mere business analyst level down to the ICT level. The ARIS EPC to PIM4SOA transformation tool provides means to transform ARIS business level description to platform indepent, service-oriented PIM4SOA models. ARIS XML export (AML) is transformed to a XMI serialisation of PIM4SOA models. The transformation makes us of and is based on the ARIS modelling style for cross-organizational business processes (CBPs) described in A2. It translates business process models to platform independent ICT models based on a service-oriented architecture.
Benefits to interoperability	1. PIM4SOA metamodel is used as a common pivot metamodel in the ATHENA project. The ARIS EPC to PIM4SOA transformation tool makes use of PIM4SOA as target format of the transformation enabling model exchange with other tools (e.g. Meastro, UML-Profile for Services) and code generation from ARIS models (e.g. WSBPEL, WSDL). 2. The ARIS EPC to PIM4SOA transformation tool provides algorithms to generate ICT system models from ARIS business level descriptions. It bridges business process and service-oriented modelling techniques described and developed in A2 and A6.
Supported models/methodologies	-
Supported input interfaces	-
Supported output interfaces	-
Validation/demonstration	Validation through a demonstration showing how

	ARIS business level description can be transformed to executable WSBPEL code. The demonstration is based on an EADS scenario and makes also use of the PIM4SOA to WSBPEL transformation developed in A6.
Standards compliance	-
Availability	Hosted service.
License	-
Status	Prototype
Requirements/dependencies	Requires Java 5
Web references	-
ATHENA metadata	
Contact person	Jörg Müller, SIEMENS
Contributors	SIEMENS
Provided by project/activity	• A2 – Cross-Organisational Business Processes • A6 – Model-driven and Adaptive Interoperability Architectures
Deliverables representing result	D:A2.4: : Architecture for Enactment and Integration of Cross-Orgranizational Business Processes (M21)
Contribution to key result	• 10. Cross-Organisational Business Process Modelling and Enactment • 13. Model-driven and Adaptable Interoperability Framework and Infrastructure
Used in pilot	• EADS scenario
Deliverable providing evaluation	• D.A2.5 “Validation of Research Results” (M24) • D.A6.4 “Model-Driven and Adaptable Interoperability Infrastructure” (M24)