Autonomous Computing Engineering Reference Guide

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Solution data	
Name	Autonomous Computing Engineering Reference Guide
Result type	Methodology/guideline
Description/functionality	 A methodology for the design of autonomous systems based on agent technologies is described. The methodology introduces the concept of holons that allow the description of self-organisation in autonomus architectures. This concepts match nicely with the concpets of team-oriented programming in BDI agents, which is adoped in A6 for agent-based model-driven service-composition and choreography. However, the concept of holons is more general. The methodology introduces self-organisation, autonomy, flexibility, and robustness in service-oriented architectures. Interoperability is supported by explaining how general service-oriented architectures could be extended with these propterties
Benefits to interoperability	The methodology allows to introduce self-organisaiton, autonomy, flexibiliy, and robustness in service-oriented architectures. Interoperability is supported by explaining how general service-oriented architectures could be extended with these propterties.
Supported models/methodologies	-
Supported input interfaces	-
Supported output interfaces	-
Validation/demonstration	Is used as a methodology in the design of the agent-based components of the demonstrators developed in ATHENA.
Standards compliance	-
Availability	-
License	-
Status	Concept
Requirements/dependencies	-

1. Datasheet

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Web references	-
ATHENA metadata	
Contact person	Klaus Fischer, DFKI
Contributors	DFKI
Provided by project/activity	 A5 – Planned and Customisable Service-Oriented Architectures 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	-