A*

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1. Datasheet

Solution data	
Name	A*
Result type	Semantic annotation tool
Description/functionality	• This result consists of a methodology for semantic annotation of digital resources and a tool, A*, that implements a semantic annotation environment based on such a methodology. • The semantic annotation method has been conceived for a large variety of digital resources (e.g., business documents, business processes, web services) involved in a typical cooperation between enterprises in an e-Business scenario. The proposed method considers the content and the structure of the documents to be exchanged and contrasts them with the ontology, with the goal of building a mapping to the Reference Ontology. Semantic annotation is a complex task; to make it easier the proposed method is based on an incremental approach that, starting from simple keyword based annotations, evolves towards more advanced and rigorous ones, reaching the last level where the annotation is represented by OWL expressions. • The A* tool supports the user to progressively identify possible mappings between the digital resource and the Reference Ontology specifically selected. To this end, A* is characterised by a friendly user interface and an automatic support capable of proposing matching between elements of the business resource and Reference Ontology elements starting from the analysis of the business resource.
Benefits to interoperability	This result provides a low entry barrier of semantic annotation by using an incremental approach.
Supported models/methodologies	Internally A* works with RDFS and OWL files. Services provided externally are described through WSDL files. Output is a multi-level annotation: L1,L2,L3 are proprietary representations; L4 is OWL.
Supported input interfaces	• Access to Athos for importing the ontology • Access to the RDF visualisation service to import the RDF graphical presentationof the document to be annotated

	• Import from A6 repository to be still agreed
Supported output interfaces	• A* will provide access to the Annotation Repository via web service
Validation/demonstration	• AIAG: eKanban Pilot • AIDIMA: eProcurement Pilot • EADS: Change management process • CRF: Automotive Pilot
Standards compliance	-
Availability	-
License	-
Status	-
Requirements/dependencies	-
Web references	-
ATHENA metadata	
Contact person	Francesco Taglino, LEKS
Contributors	LEKS
Provided by project/activity	• A3 – Knowledge Support and Semantic Mediation Solutions
Deliverables representing result	D.A3.3: Semantic Annotation language and tool for information and Business Processes (M20)
Contribution to key result	• 11. Ontology-based Semantic Annotation and Reconciliation method/language/tool
Used in pilot	• AIAG: eKanban Pilot • AIDIMA: eProcurement Pilot • EADS: Change management process • CRF: Automotive Pilot
Deliverable providing evaluation	-