ModelWriter
Text & Model-Synchronized Document Engineering Platform

PROJECT SUMMARY
ModelWriter aims to bring a quantum leap in the productivity of technical authors engaged in authoring technical documents by improving the quality of these documents, resulting in better quality of companies’ products and ultimately enabling companies to better exploit, recycle and valorise their own internal knowledge.

UNIQUE SELLING POINTS / BUSINESS VALUE
- Gain in time for requirements engineering, for obtaining verifiable models out of requirement text.
- Gain in time by reusing knowledge from one software lifecycle document to the other.
- Gain in quality, by preventing errors thanks to on-the-fly consistency checking on the knowledge base.
- Gain in quality by enabling automated analysis of traceability among software lifecycle documents.

EXPECTED RESULTS
- A reversible semantic parser which maps text to formal knowledge representations and vice versa.
- An extensible and configurable open source traceability analysis framework.
- Federated knowledge base with a bi-directional synchronisation engine.

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PROJECT CONSORTIUM

START DATE OCTOBER 2014
END DATE SEPTEMBER 2017

WORK PACKAGE OVERVIEW

- WP1: Use Cases & Requirements
- WP2: Semantic Parser
- WP3: Model->Knowledge Base
- WP4: Knowledge base Design and Implementation
- WP5: Project Management
- WP6: ModelWriter Architecture, Integration and Evaluation
- WP7: Dissemination and Exploitation

MODELWRITER PROJECT PARTNERS

- Large companies (4)
- SMEs (4)
- Research institutes (1)
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DEMONSTRATOR IN AVIATION DOMAIN
Reversible semantic processor extracts model from design rules in regulation documentation. Consistency check applied on the model improves the overall consistency of the rule set, and consequently reduce time and design errors in engineering.

DEMONSTRATOR IN AUTOMOTIVE DOMAIN
Synchronization of design specifications with computer aided design data to increase the productivity of cross functional engineering teams by analysing the impact of design changes.

MODELWRITER’S CONFIGURABLE SYNCHRONIZATION MECHANISM WITH AUTOMATED ANALYSIS SUPPORT