**D1.6.2 Software Requirements Document (SRD)**

ModelWriter

Text & Model-Synchronized Document Engineering Platform

Work Package: WP1

Task: T1.6 – Software Requirements and Review

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Apart from the deliverables which are defined as public information in the Project Cooperation Agreement (PCA), unless otherwise specified by the consortium, this document will be treated as strictly confidential.

Document History

|  |  |  |  |
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| Version | Author(s) | Date | Remarks |
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|  |  |  |  |

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1. Introduction
   1. Role of the deliverable

A common **Software Requirements Document** (SRD, alias D1.6.2) derived from the previous User Requirements Document will identify and prioritize the functional and non-functional requirements for the ModelWriter IDE, addressing the selected User Requirements. This SRD will also include the technical environment necessary e.g. for Task T6.7 from OBEO.

A Progress Meeting chaired by UNIT (yet not necessarily hosted by them) was organized for the technology developers (represented by WP2 to WP4 leaders) to share and explain to all participating project partners what are the ModelWriter platform features and non-functional requirements which are proposed for research and implementation

This document is the first version of the software requirements collected from technical work packages. It may be up-dated depending on the further details and requirements.

The **Software Requirements Document** (SRD) (D1.6.2) is automatically compiled from the issue list of the public “Requirements” repository of ModelWriter’s GitHub organization[[1]](#footnote-1). The information about confirmed requirements and the prioritization of the requirements are programmatically gathered from the public ‘waffle’ scrum board of the “Requirements” repository[[2]](#footnote-2).

* 1. The List of Technical Work Packages

|  |  |
| --- | --- |
| UC Code | Requirements derived from |
| WP2 | Semantic Parsing and Generation of Documents and Documents Components |
| WP3 | Model to/from Knowledge Base (synchronization mechanism) |
| WP4 | Knowledge Base Design and Implementation |
| WP6 | Architecture, Integration and Evaluation |

* 1. Conventions

The requirements are prefixed by “REQ-SR-WPz-xxx”, and are written in a roman typeface, where “REQ” stands for “Requirement”, “SR” indicates “Software Requirements”, “z” stands for the number of work package where the requirement is orginated and “xxx” is the positive integer identifier of the requirement. You can add this id (xxx) which is unique entire ‘requirements’ repository, at the end of <https://github.com/ModelWriter/Requirements/issues/> to access the latest version of the requirement.

* 1. Structure of the document

This document is organized as follows:

Chapter 1 introduces the document.

Chapter 2 describes each requirements.

* 1. Terms, abbreviations and definitions

|  |  |
| --- | --- |
| Abbreviation | Definition |
| RDF | Resource Description Framework |
| WP | Work Package |
| UC | Use Case |
| BPMN | Business Process Monde & Notation |
| ReqIF |  |
| RMF |  |
| SBVR |  |
| IPA |  |

1. Software Requirements
   1. REQ-UR-WP6-44

Text Connector should support Textile (textile) and/or Markdown (mw) standards.

**URI:** https://github.com/ModelWriter/Requirements/issues/44

**Created:** 07.04.2015

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP6-43

Text Connector should support Office Open XML (docx) standard.

**URI:** https://github.com/ModelWriter/Requirements/issues/43

**Created:** 07.04.2015

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-14

The TRAM will be able to compose transformations.

**URI:** https://github.com/ModelWriter/Requirements/issues/14

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-13

The TRAM validates such parameters and also the input models before a transformation takes place.

**URI:** https://github.com/ModelWriter/Requirements/issues/13

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-12

A mechanism is needed to register the available transformations in ModelWriter

**URI:** https://github.com/ModelWriter/Requirements/issues/12

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-11

M2M Transformation Framework must synchronize the output models after its input models or configurations have been modified.

**URI:** https://github.com/ModelWriter/Requirements/issues/11

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-10

M2M Transformation Framework must keep traces between transformed models and its source models.

**URI:** https://github.com/ModelWriter/Requirements/issues/10

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-9

M2M Transformation Framework should compose simple transformations to obtain more complex ones.

**URI:** https://github.com/ModelWriter/Requirements/issues/9

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-8

M2M Transformation Framework should configure the transformations to be able to produce different outputs using the same inputs.

**URI:** https://github.com/ModelWriter/Requirements/issues/8

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-7

Transformation Manager shall obtain one or several output models from one or several input models.

**URI:** https://github.com/ModelWriter/Requirements/issues/7

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-6

The Transformation Framework must be built on top of the Eclipse Modelling Framework (EMF)

**URI:** https://github.com/ModelWriter/Requirements/issues/6

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** ferhaterata

* 1. REQ-UR-WP3-5

Synchronization Manager Plug-in must be a component in the M2M Transformation Framework

**URI:** https://github.com/ModelWriter/Requirements/issues/5

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-4

Traceability Manager (TRAM) Plug-in must be a component in the M2M Transformation Framework

**URI:** https://github.com/ModelWriter/Requirements/issues/4

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-3

Configuration Manager Plug-in must be a component in the M2M Transformation Framework

**URI:** https://github.com/ModelWriter/Requirements/issues/3

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-UR-WP3-2

Transformation Manager Plug-in must be a component in the M2M Transformation Framework

**URI:** https://github.com/ModelWriter/Requirements/issues/2

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** N/A

* 1. REQ-SR-WP3-42

ModelWriter should support at least one Document Markup Language and one Lightweight Markup Language

**URI:** <https://github.com/ModelWriter/Requirements/issues/42>

**Status:**

**Created**: 07.04.2015

**Created by**: Ferhat Erata

**Assignee**: Ferhat Erata

References

1. ?

Appendixes

N/A

1. [https://github.com/ModelWriter/Requirements/issues](https://github.com/ModelWriter/Requirements/issues?q=label:%22User+Requirements+Document+(URD)%22) [↑](#footnote-ref-1)
2. [https://waffle.io/modelwriter/requirements](https://waffle.io/modelwriter/requirements?label=User%20Requirements%20Document%20(URD)) [↑](#footnote-ref-2)