**D1.5.2 User Requirements Document (URD)**

ModelWriter

Text & Model-Synchronized Document Engineering Platform

Work Package: WP1

Task: T1.5 – Consolidated User Requirements and Review

Edited by:

Ferhat Erata <ferhat@unitbilisim.com> (UNIT)

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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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|  |  |  |  |

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1. Introduction
   1. Role of the deliverable

This document provides the list of higher level requirements for the ModelWriter project. The main objective of this deliverable is to formalize and prioritize User Requirements (incl. commercial requirements) on ModelWriter platform. This document is the first version of the user requirements collected from industrial partners. It may be up-dated depending on the further details and requirements we get from our industrial use case providers.

The **User Requirements Document** (URD) (D1.5.2) 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 Use Cases

|  |  |
| --- | --- |
| UC Code | Requirements derived from |
| UC-FR-01 | Synchronization between Models and Documentation |
| UC-FR-02 | Synchronization of regulation documentation with a design rule repository |
| UC-FR-03 | Enterprise Architecture |
| UC-FR-04 | Production of a context specific design document |
| UC-TR-01 | Collaborative production of a proposal for an IPA project |
| UC-TR-02 | Production of a proposal in response to an IPA Invitation To Tender |
| UC-TR-03 | ReqIF/Clafer’s (Feature Modeling) documentation |
| UC-TR-04 | Requirement Engineering for System Modelling (UC-TR-04) |
| UC-TR-05 | Synchronous Business Process Design with Use Cases (UC-TR-05) |
| UC-BE-01 | Requirements IT |
| UC-BE-02 | Automated Test Generation |

* 1. Conventions

The requirements are prefixed by “REQ-UR-xxx”, and are written in a roman typeface, where “REQ” stands for “Requirement”, “UR” indicates “User Requirements” 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. User Requirements
   1. REQ-UR-46

ModelWriter should be able to digest the jargons of a new domain in its knowledge base (the jargons which are used in the documentation of the system)

**Use Cases:** UC-TR-03 Generation and management of feature models, UC-TR-05 Sync. Business Process Design with Use Cases

**URI:** https://github.com/ModelWriter/Requirements/issues/46

**Created:** 27.04.2015

**Created By:** m-challenger

**Assignee:** geylani

* 1. REQ-UR-45

Highlighting the technical keywords and connecting them to the elements in the models

**Use Cases:** UC-TR-03 Generation and management of feature models, UC-TR-04 Requirements Engineering with SysML Designer, UC-TR-05 Sync. Business Process Design with Use Cases

**URI:** https://github.com/ModelWriter/Requirements/issues/45

**Created:** 27.04.2015

**Created By:** m-challenger

**Assignee:** m-challenger

* 1. REQ-UR-42

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

**Use Cases:** UC-TR-03 Generation and management of feature models, UC-TR-04 Requirements Engineering with SysML Designer, UC-TR-05 Sync. Business Process Design with Use Cases

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

**Created:** 07.04.2015

**Created By:** ferhaterata

**Assignee:** ferhaterata

* 1. REQ-UR-41

[UC-FR-04] The system must help to synchronize the text parts with the rules that have been derived from the text

**Use Cases:** UC-FR-03 Synchronization of regulation documentation...

**URI:** https://github.com/ModelWriter/Requirements/issues/41

**Created:** 18.03.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-40

[UC-FR-04] The system must show (colored mark) the text elements that are linked to the "visual model" concepts

**Use Cases:** UC-FR-03 Synchronization of regulation documentation..., UC-TR-03 Generation and management of feature models, UC-TR-04 Requirements Engineering with SysML Designer, UC-TR-05 Sync. Business Process Design with Use Cases

**URI:** https://github.com/ModelWriter/Requirements/issues/40

**Created:** 18.03.2015

**Created By:** annemonceaux

**Assignee:** annemonceaux

* 1. REQ-UR-39

[UC-FR-05] The system must provide an user firendly way to configure the "design need/context" with regards to which one might want to retreive the rules (query editor)

**Use Cases:** UC-FR-04 Production of a context specific design document

**URI:** https://github.com/ModelWriter/Requirements/issues/39

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-38

[UC-FR-05] The system must provide a user friendly mean to edit and manage any additionnal knowledge representation needed to perform its functions

**Use Cases:** UC-FR-04 Production of a context specific design document

**URI:** https://github.com/ModelWriter/Requirements/issues/38

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-37

[UC-FR-04] A specification for an improve and controlled formulation of the rules in semi-structured natural language (input document) should be proposed

**Use Cases:** UC-FR-03 Synchronization of regulation documentation...

**URI:** https://github.com/ModelWriter/Requirements/issues/37

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-36

[UC-FR-04] The system must synchronize the text part of the SIDP and associated "visual" models and warn the end user in case of change

**Use Cases:** UC-FR-03 Synchronization of regulation documentation...

**URI:** https://github.com/ModelWriter/Requirements/issues/36

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-35

[UC-FR-04] The system must allow representing the system installation design rules in some knowledge representation format that can be queried or reasonned with

**Use Cases:** UC-FR-03 Synchronization of regulation documentation..., UC-FR-04 Production of a context specific design document

**URI:** https://github.com/ModelWriter/Requirements/issues/35

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-34

[UC-FR-04] The system must allow retreiving the "visual" models elements mentioned inside the text and synchronizing both

**Use Cases:** UC-FR-03 Synchronization of regulation documentation...

**URI:** https://github.com/ModelWriter/Requirements/issues/34

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-33

[UC-FR-04] The system must allow the end user to edit text and "visual" model (such as tables, diagrams or 2D drawings) synchronously

**Use Cases:** UC-FR-03 Synchronization of regulation documentation...

**URI:** https://github.com/ModelWriter/Requirements/issues/33

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-32

[UC-FR-04] The system must allow the end user to keep is usual edition environment

**Use Cases:** UC-FR-03 Synchronization of regulation documentation...

**URI:** https://github.com/ModelWriter/Requirements/issues/32

**Created:** 31.01.2015

**Created By:** annemonceaux

**Assignee:** N/A

* 1. REQ-UR-31

[UC-FR-02] The System must allow to activate/deactivate a synchronization direction

**Use Cases:** UC-FR-02 Enterprise Architecture

**URI:** https://github.com/ModelWriter/Requirements/issues/31

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-30

[UC-FR-02] The System must be able to be used on remote

**Use Cases:** UC-FR-02 Enterprise Architecture

**URI:** https://github.com/ModelWriter/Requirements/issues/30

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** mrostren

* 1. REQ-UR-29

[UC-FR-02] The System must be easy to integrate to be a part of the SmartEA project

**Use Cases:** UC-FR-02 Enterprise Architecture

**URI:** https://github.com/ModelWriter/Requirements/issues/29

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-28

[UC-FR-02] The System must offer a notification system

**Use Cases:** UC-FR-02 Enterprise Architecture

**URI:** https://github.com/ModelWriter/Requirements/issues/28

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-27

[UC-FR-02] The System must allow users to collaborate while typing documents

**Use Cases:** UC-FR-02 Enterprise Architecture

**URI:** https://github.com/ModelWriter/Requirements/issues/27

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-26

[UC-FR-02] The System must be integrated to SmartEA to facilitate documentation typing and synchronization.

**Use Cases:** UC-FR-02 Enterprise Architecture

**URI:** https://github.com/ModelWriter/Requirements/issues/26

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-25

[UC-FR-01] The System Should allow filtering synchronization markers

**Use Cases:** UC-FR-01 Sync. between Models and Documentation

**URI:** https://github.com/ModelWriter/Requirements/issues/25

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-24

[UC-FR-01] The Documentation Editor must not display explicitly links to the model

**Use Cases:** UC-FR-01 Sync. between Models and Documentation

**URI:** https://github.com/ModelWriter/Requirements/issues/24

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-23

[UC-FR-01] The System must not lead to have a dependency to non-eclipse applications or non-open source tool

**Use Cases:** UC-FR-01 Sync. between Models and Documentation

**URI:** https://github.com/ModelWriter/Requirements/issues/23

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-22

[UC-FR-01] The System must propose a synchronization tool assist to facilitate the documentation

**Use Cases:** UC-FR-01 Sync. between Models and Documentation

**URI:** https://github.com/ModelWriter/Requirements/issues/22

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-21

[UC-FR-01] The System must allow to keep the same documentation engine working

**Use Cases:** UC-FR-01 Sync. between Models and Documentation

**URI:** https://github.com/ModelWriter/Requirements/issues/21

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-20

[UC-FR-01] The System must propose an eclipse editor to handle documentation/models mappings

**Use Cases:** UC-FR-01 Sync. between Models and Documentation

**URI:** https://github.com/ModelWriter/Requirements/issues/20

**Created:** 20.01.2015

**Created By:** mrostren

**Assignee:** N/A

* 1. REQ-UR-17

The system must support an open requirement authoring tool (such as RMF)

**Use Cases:** UC-TR-03 Generation and management of feature models

**URI:** https://github.com/ModelWriter/Requirements/issues/17

**Created:** 27.11.2014

**Created By:** ferhaterata

**Assignee:** ferhaterata

* 1. REQ-UR-16

The system should support ReqIF standard as user visible model.

**Use Cases:** UC-TR-03 Generation and management of feature models

**URI:** https://github.com/ModelWriter/Requirements/issues/16

**Created:** 27.11.2014

**Created By:** ferhaterata

**Assignee:** ferhaterata

* 1. REQ-UR-15

BPMN 2.X standard shall be supported as a user visible model

**Use Cases:** UC-TR-05 Sync. Business Process Design with Use Cases

**URI:** https://github.com/ModelWriter/Requirements/issues/15

**Created:** 20.11.2014

**Created By:** ferhaterata

**Assignee:** ferhaterata

References

1. ?

Appendixes

Appendix 1 - D1.4.2 Corpus for Turkish Use Cases (Public)

Appendix 2 - D1.4.3 Corpus for Turkish Use Cases (Private)

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)