MEETING MINUTES
ITEA2-ModelWriter-13028 Project

Date	Subject	Location	Version
2015.08.04	**Havelsan Use Case**	**Teleconference (Hangout)**	**1.0**
Conf. Link	https://plus.google.com/hangouts/_/modelwriter.eu/project		
Published	https://github.com/ModelWriter/WP5/tree/master/Meeting%20Minutes		

Attendees:

Name	Function	Company	Attendance
Ferhat Erata [FE]	Project Leader	UNIT	Yes
Moharram Challenger [MC]	Secondary Contact	UNIT	Yes
Etienne Juliot [EJ]	French Consortium Coordinator	OBEO	No
Yvan Lussaud [YLU]	Technical Contact	OBEO	No
Prof. Erhan Mengüsoğlu [EM]	Turkish Consortium Coordinator	MANTIS	No
Anne Monceaux [AM]	Technical Contact	AIRBUS	No
Samuel Cruz Lara [SL]	Secondary Contact	LORIA	No
Prof. Claire Gardent [SC]	Primary Contact	LORIA	No
Prof. Geylani Kardaş [GK]	Technical Contact and Consultant	KOCSISTEM	No
Mehmet Önat [MO]	Primary Contact Point	KOCSISTEM	No
Hale Gezgen [HG]	Secondary Contact Point	KOCSISTEM	No
Ersan Gürdoğan [EG]	Secondary Contact Point	HISBIM	No
Taşkın Kızıl [TK]	Primary Contact Point	HIBIM	No
Oğuz Yıldız [OY]	Technical Contact	HISBIM	No
Emil Khamitov [EK]	Technical Contact	UNIT	No
Prof. Hans Vangheluwe [HV]	Consultant	UNIT	No
Prof. Monique Snoeck [MS]	Belgian Consortium Leader	KUL2	No
Prof. Sien Moens [SM]	Secondary Contact	KUL1	No
Philippe Bureille [PB]	Primary Contact	SOGETI	No
Nicole Sohn [NS]	Secondary Contact	SOGETI	No
Yagup Macit [YM]	Technical Contact	Havelsan	Yes
Eray Tüzün [ET]	Technical Contact	Havelsan	Yes
Nuran Göksu [NG]	Primary Contact	Havelsan	No

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Dr. Mariem Mahfoudh [MM]	Technical Contact	LORIA	No
Serhat Çelik	Developer	UNIT	Yes
Hasan Emre Kırmızı	Developer	UNIT	Yes
Ümit Anıl Öztürk	Developer	UNIT	Yes

Agenda:

No	Topic	Comment
1	**[ModelWriter] Havelsan - Product Owner Review Meeting (30-07-2015)**	

Agenda

1. *Discussion of HAVELSAN presentation presented in the workshop of Belgium*
    - Translation from Requirement document to structured requirement object
    - Translation from Model to structured requirement object
    - Havelsan ext - Traceability Matrix
    - Havelsan ext - Suspect Analysis
    - Havelsan ext - Document Generation

Notes taken while the demonstration of the proprietary ALM (Application Lifecycle Management) tool of HAVELSAN

- Although requirements are kept tracked online as Structured Requirements Objects, an infrastructure built on top of Microsoft Team Foundation Server by the ALM department of HAVELSAN, clients such as SSM (Undersecretariet for Defense Industries) and TSK (Turkish Armed Forces) enforces to get them in the form of specific document formats such as SRS/HRS (Software/Hardware Requirement Specification, System Subsystem Specification Documents etc.) for the sake of specific regulations. To this end, those documents delivered to clients are automatically generated easily, thanks to Structured Requirements Objects. However, if the client makes some changes on the document, those changes cannot be transferred into the tool automatically, but only manually. This situation may expose problems in traceability.
- Document View/Generation: This tool of Havelsan generates specifications based on several word templates aligns to several industry standards. Some sections in the documents are filled manually but the most important section which describes specifications are enumerated with regards to structured requirement objects based on structured selection. Several traceability views are inserted in a tabular format into the documents.
- Description field of requirement objects are not utilized since the information provided in this field is in the form of natural language. The texts in this field has not been able to be processed until now.
- Several domain knowledge have been accumulated by each contract/project. Especially in command and control systems, the legacy software artifacts may be analyzed and after a commonality and variability analysis a knowledge base can be constituted.
- Requirement Flow in Havelsan: Contract Requirements -> System Requirements -> Software/Hardware Requirements.
- Every system/software requirement shall map to one or more contract requirements. For that reason, every workitem (requirement, specification, task, test case etc. should be tracked for changes)
- Traceability Matrix View between different type of requirements (such as parent-child relationship). Each contract requirements are decomposed into system requirements and so on, every entry in a requirement document should have a relation with the entries of a parent document.
- Example of a traceability scenario: Eray, software engineer, has written a test case for a feature, but has no information about the change in the requirement which has an impact on the feature and results the test case would become outdated. But the system notifies Eray about the change. Eray reviews and conforms the change.

Suggested Features for ModelWriter Platform:

1. *Versioning of each mapping (aka linking)* in order to be able to perform a possible rollback/undo operation.
2. *Tagging of Marking (such as Baseline) and Typing of Mapping (such as relationship type -Composion or shared-)*
    - Baseline (TR. “temel çizgi”) Scenario: Baseline means that every changes made after the date of the baseline should be tracked. It's like to take a snapshot of the system. This feature enforces ModelWriter to be integrated with the a git server (in Eclipse it is called EGit). Every concession request after a baseline must be approved by the client.
    - Assigning tags to markers enhances the analysis of the system under design. For instance, the tag information can be used for filtration purposes while creating traceability matrix view.
    - Assigning types for mapping (linking) such as parent-child, predessor-successor can be used for analysis of the system in traceability matrix view and suspect analysis view.
2. *Traceability Matrix View*
3. *Suspect (Impact/Change) Analysis View*
4. The semantic of marking and mapping can be defined by relational logic

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Conceptual Design - Inputs - Tagging of Marking

Marking	**Tag (user defined)**
x:marker	Requirement
	Feature
y:marker	Issue
	Change Request
z:marker	Artifact
	Feature
a:marker	Test Case
b:marker	Concept
	Test Case
c:marker	Model
	Feature
d:marker	Concept
	Feature

- **Typing of Mapping**

Marking	**Relation Type**	**Marking**

x:marker	>>composed_of>>	y:marker
	>>composed_of>>	a:marker
y:marker	>>relates_to>>	z:marker
c:marker (Feature c)	>>requires>>	d:marker (Feature d)
c:marker (Feature c)	<<validates<<	b:marker (Test Case b)

If x:marker is deleted, y:marker and a:marker should be deleted as well.
First Order Logic constraints can be added as well.
For all marked elements which are tagged with "Issue" …

Traceability Matrix View:- Feature -> Test Case

-	TC: marker_a	TC: marker_b	...
F: marker_x	>>composed_of>>	!	...
F: marker_z	!	!	...
F: marker_c	!	<<validates<<	...
F: marker_d	...	...	...

Rule: Each Test Case must have some feature.

Tag: Feature	Tag: Test Case
F: x:marker	TC: a:marker
F: z:marker	n/a
F: c:marker	TC: b:marker
F: d:marker	n/a

Traceability Matrix View: Requirement -> Feature -> Test Case

Tag: Requirement	Tag: Feature	Tag: Test Case
R: marker_x	marker_a	
R: marker_z	n/a	

Traceability Matrix View: Suspect (Impact/Change) Analysis View -Output

Based upon a selection of a marked element, user can start a suspect analysis. Default Graph depth may be provided by the user as well.

Depth: 2	Level 1	Level 2
x:marker		
	y:marker	
		z:marker
	a:marker	
		b:marker
		c:marker

Action plan:

No	Item	Assigned to	Due Date	Status
1	Considering a connector for Havelsan's Framework (TFS)			
2				
3				
4				

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Distribution:

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