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1. Introduction

1.1. Object

The object of the present document is presenting an analysis of the use of user requirement manager application called AgileReq. Experiences of its use over the last years will be exposed, as well as suggestions for improvements.

1.2. Scope

The main purpose of the TWINS project in ZIV was to apply TWINS's techniques and tools in one project used as a pilot. The use of AgileReq is being checked against other tools with the aim of choosing the best one (or group of applications), and spread its use to other projects.

1.3. Need of a project and requirement management solution

Inside ZIV there is no standardized tool for project management. Microsoft Project is widely used to make initial Gantt charts for the project, and the efforts tracking is done with an application called B-Kin, or with Excel.

The management of user requirements is also a field in which we could improve a lot, and with this improvement, try to decrease the cost of the product development, as well as the time to market. In this field, we are also testing TRAC as another solution offered in the TWINS project.

Finally ZIV P+C has detected a lack of integration between user requirement collection and management and the testing procedures.

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2. Analysis of AgileReq

2.1. Basics of AgileReq

AgileReq is a proprietary application developed by SQS, that implements Scrum methodology.

Scrum is an iterative incremental process of software development commonly used with agile software development.

Agile methodologies aim for the development of a software project to be an adaptive, although disciplined development, and which provides simple solutions. Agile has an adaptable approach, where the planning of the project progresses as the changes emerge.

The key performance principles on which the Agile methodologies are based are:

- Shortening the development cycles
- Involving the customer from the start to the end of each cycle

The work techniques provided by Agile minimises the impact of the changes on a software development project.

Shortening the development cycles and strengthening communication with the customer result in:

- Greater focus on a more specific problem and at the right time
- Providing an immediate solution agreed by consensus and not dragging it throughout the leaflet.
- Beginning each new development cycle on a proven, verified intermediary version that has been accepted by the customer.

Using scrum methodology, the main goal of AgileReq is to be a very easy way of

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collecting the user requirements for a project, and manage them into milestones, reducing the development into short period cycles.

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3. Tools

AgileReq is a very simple system. Users do not need any special application to use it; their web browser is enough. This makes quite easy to implant it. The only requirement is to add a new user (with his corresponding profile) in the database of AgileReq.

In the case of the server, AgileReq is a proprietary software developed by SQS. During the tests in TWINS, we have been using a server located in SQS using an internet access. However the usual situation will be installing the AgileReq program in a server in ZIV P+C.

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4. Benefits of AgileReq









During the tests we have found that the main interesting points of AgileReq are:

- It has a web interface so it can be used in an ubiquitous way.
- Its easiness of use that encourage its use by different roles in the development.
- Its capability of helping in the performance of short development cycles.
- Its separation of user stories and tasks, which allows to do a better assignment of resources and a closer follow of the design.
- Its integration with TestWorkflow allowing a better management of requirements and tests.

User Stories

Add User Story

8 items found, displaying all items.

Short Name	Version	Name	Description	Priority	Iteration	Status	
RTUConn	0.0	NewRTUConnection		High	0	In Process	
Fullguard	0.0	Behaviour of full guardqueues	We should discard old messages if a newer one is received in a guardqueue.	High	0	Finished	
Checktables	0.0	Check RTU tables	RTU tables must be capable of being consulted using the web. The entry point can be the iecaddress of the IP address	High	0	Finished	
Laminate1000	0.0	Laminate1000	Prevent avalanches of GI laminating the sending of 10.000	Medium	1	Finished	
NeverExpire	0.0	Guardqueues never expire	Guardqueues should never expire... The elements inside them yes.	High	0	Finished	
GQCcreation	0.0	Guardqueue creation	Guardqueues must be created statically when the first one is connected.	Medium	0	Finished	
RestrictAccess	0.0	Restrict Access	Access must only be allowed for known IP-OAs.	High	0	Finished	
StatReorder	0.0	Statistics reordering	Statistics must be reordered and the number of not connected RTUs added	Low	0	Finished	

Export options: [CSV](#) | [Excel](#) | [XML](#) | [PDF](#)

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5. Problems of AgileReq

The main problem of AgileReq is a lack of the ability to map user stories and tasks with the commits of an VCS. Although this is true, it is not a big problem due to the fact that we can add the number of the subversion commit to the description of the user story.

User Story: RTUConn

Project: Proxy104

[Edit](#)

Version: 0.0	Description:	Edit
Name: NewRTUConnection	Priority: High	Delete

Iteration: 0	State: In Process
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[<< Back](#)

Tasks

[Add Task](#)

One item found.

Short Name	Version	Name	Description	Assigned	Status		Planned Effort	Planned Start Date	Planned End Date	Real Effort	Real Start Date	Real End Date
RTUConn	0.0	RTUConn		Developer	In Process	<div style="width: 20px; height: 10px; background-color: gray;"></div>	20	01/21/2009	01/22/2009	0		

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6. Conclusion

AgileReq is a good tool for user requirement collection. It is helping in a better integration of software and hardware development, and we hope that its integration with TestWorkflow will fix a gap we had detected in the project development.

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7. Revision register

Revision	Modification	Author	Rev.	Aprov.
V1.0	Original version	MAC	MAC	