

Conclusion: end report

DaCoPAn

Helsinki 31st May 2004

Software Engineering Project

UNIVERSITY OF HELSINKI
Department of Computer Science

UNIVERSITY OF PETROZAVODSK
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Course

581260 Software Engineering Project (6 cr)

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Change Log

Version	Date	Modifications
1.0	Put the date here	First version

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1 Introduction

In this document, the introduction will present a general summary of the project, and the list of the meetings held by the group members.

In section 2, comments that other groups that will work using the DaCoPAn project as a basis might find interesting are presented.

In section 3, the working hours of the first DaCoPAn team members can be found.

1.1 Summary

1.1.1 Communication means

The mailing list and forums were essential in communication. The forum was necessary as discussion point for unclear issues and agreements, specially during the requirements specification document creation, the design of the XML DTD and the preparation of the trip to Petrozavodsk and finally in the unofficial section /dev/null. The mailing lists were massively used for high priority issues, time critical tasks, or communication with supervisors and client. The Team Wiki web system allowed publishing the created documents and making them available for supervisors and interested audiences. The CVS repository was essential in sharing source code and documentation during their creation. The repository was stored in the computer science department of the university of Helsinki for most of the project process, but during the stay of the Helsinki team in Petrozavodsk the repository was stored locally in the department of computer science of the university of Petrozavodsk.

1.1.2 Software process

Roles in the project were assigned at the beginning of the process. Most of the tasks and responsibilities of the different roles were shared among all the members of the group. The chosen software process model was the waterfall model. At some stages it was proved to be more efficient to overlap its phases and make the process flexible, essentially due to time limitations.

1.1.3 Documents produced

- Project plan
- Requirements document
- Networking scenarios document
- Design document: Analyzer
- Design document: Animator

- Javadoc documentation for Animator
- Implementation document: Analyzer
- Implementation document: Animator
- Test plan document: Analyzer
- Test plan document: Animator
- Test execution document
- Test execution document: Analyzer
- Test execution document: Animator
- Installation instructions document: Animator
- User manual for Analyzer
- User manual for Animator
- Conclusion: end report.
- Minutes of the meetings.
- DaCoPAn glossary.
- Presentation used in the DaCoPAn demos.

1.2 Meetings held

1.2.1 Common meetings

- January 23, 2004: Alejandro Fernandez Rey, secretary; Jari Aarniala, absent.
- January 27, 2004: Carlos Arrastia Aparicio, secretary.
- January 28, 2004: Jari Aarniala, secretary; Jonathan Brown, absent.
- January 29, 2004: Jarkko Laine, secretary; Vesa Vainio, absent.
- January 30, 2004: Jarkko Laine, secretary; Vesa Vainio, absent.
- February 03, 2004: Vesa Vainio, secretary.
- February 05, 2004: Alejandro Fernandez Rey, secretary.
- February 06, 2004: Vesa Vainio, secretary.
- February 10, 2004: Jari Aarniala, secretary.

- May 03, 2004: Jari Aarniala, secretary; Andrei Salo, absent.
- May 06, 2004: Alejandro Fernandez Rey, secretary.
- May 10, 2004: Mikhail Kryshen, secretary.

1.2.2 List for P-Group

- January 24, 2004: Andrey Ananin, secretary.
- January 27, 2004: Andrey Salo, secretary.
- January 29, 2004: Mikhail Kryshen, secretary.
- February 01, 2004: Andrey Salo, secretary.
- February 04, 2004: Andrew Ananin, secretary.
- February 05, 2004: Andrey Salo, secretary; Mikhail Kryshen, absent.
- February 08, 2004: Mikhail Kryshen, secretary.
- February 14, 2004: Andrey Salo, secretary.
- February 18, 2004: Andrey Ananin, secretary.
- February 23, 2004: Mikhail Kryshen, secretary.
- February 26, 2004: Andrey Salo, secretary; Dmitry Korzun, absent. (inspection meeting)
- February 28, 2004: Andrey Ananin, secretary; Yury Bogoyavlenskiy, supervisor.
- March 03, 2004: Andrey Salo, secretary; Andrey Ananin, chairman; Kirill Kulakov, Mikhail Kryshen, Dmitry Korzun, absent.
- March 06, 2004: Andrey Ananin, secretary; Andrey Salo, chairman; Kirill Kulakov, Mikhail Kryshen, absent.
- March 11, 2004: Mikhail Kryshen, secretary.
- March 15, 2004: Andrey Salo, secretary.
- March 18, 2004: Andrey Ananin, secretary; Andrey Salo, absent.
- March 22, 2004: Mikhail Kryshen, secretary.
- March 25, 2004: Andrey Salo, secretary.
- March 29, 2004: Andrey Ananin, secretary.
- April 01, 2004: Mikhail Kryshen, secretary.

- April 05, 2004: Andrey Salo, secretary; Viktor Surikov, absent. (design document inspection)
- April 08, 2004: Andrey Salo, secretary.
- April 12, 2004: Mikhail Kryshen, secretary; Andrey Ananin, absent.
- April 14, 2004: Andrey Salo, secretary.
- April 19, 2004: Andrey Ananin, secretary.
- April 22, 2004: Mikhail Kryshen, secretary.
- May 10, 2004: Mikhail Kryshen, secretary; Andrey Salo, Andrey Ananin, absent.
- May 13, 2004: Andrey Ananin, secretary; Viktor Surikov, absent.
- May 17, 2004: Andrey Ananin, secretary; Andrew Salo, absent.
- May 19, 2004: Andrey Salo, secretary; Viktor Surikov, absent.
- May 24, 2004: No minutes were taken.
- May 27, 2004: No minutes were taken.

1.2.3 List for H-Group

- January 21, 2004: No minutes were taken.
- January 23, 2004: Alejandro Fernandez Rey, secretary.
- January 25, 2004: Alejandro Fernandez Rey, secretary; Vesa Vainio, absent.
- February 01, 2004: Jari Aarniala, secretary; Vesa Vainio, absent.
- February 12, 2004: Jarkko Laine, secretary.
- February 17, 2004: Jari Aarniala, secretary.
- February 19, 2004: Jarkko Laine, secretary; ; Jari Aarniala, absent.
- February 24, 2004: Jarkko Laine, secretary.
- February 27, 2004: Vesa Vainio, secretary; Alejandro Fernandez Rey, absent.
- March 02, 2004: Alejandro Fernandez Rey, secretary.
- March 04, 2004: Jari Aarniala, secretary.
- March 09, 2004: Carlos Arrastia Aparicio, secretary (requirements document review).
- March 11, 2004: Jarkko Laine, secretary.

- March 23, 2004: Vesa Vainio, secretary; Alejandro Fernandez Rey, Carlos Arrastia Aparicio, absent.
- March 25, 2004: Alejandro Fernandez Rey, secretary
- March 30, 2004: Carlos Arrastia Aparicio, secretary.
- April 01, 2004: Jari Aarniala, secretary.
- April 06, 2004: Jarkko Laine, secretary.
- April 13, 2004: Jarkko Laine, secretary, Jonathan Brown, absent.
- April 15, 2004: Carlos Arrastia Aparicio, secretary; Alejandro Fernandez Rey, absent.
- April 20, 2004: Vesa Vainio, secretary; Alejandro Fernandez Rey, Carlos Arrastia Aparicio, absent.
- April 27, 2004: Alejandro Fernandez Rey, secretary.
- May 19, 2004: No minutes were taken
- May 25, 2004: Alejandro Fernandez Rey, secretary.

2 Comments for next DaCoPAN teams

In this section, the first DaCoPAN group lists improvements or corrections that might be helpful for further DaCoPAN development teams.

2.1 Analyzer

The basic version of analyzer does not supported the following features:

Additional logs. The option for this log was implemented but no more.

Other protocols. The protocols like FTP, SSH, IPv6 did not implemented.

Calculate variables. Most of protocol variables are not calculated.

Splitter. In basic version the algorithm for split messages implement only for two hosts. Also algorithm for defragment HTTP messages should be correct after implementing Additional log support.

Average time alignment. It will be nice if analyzer can calculate average time alignment.

Additional hosts. Basic version of analyzer support only two hosts.

Configuration file. Most analyzer options are include in header files. It should be detailed in separate file.

2.2 Animator

2.2.1 MSC panel

1. There could be some way to visually represent the scale. One example would be to have a separate column for drawing some kind of scale ticks. Major ticks for full seconds, smaller ticks for tenths of seconds, still smaller for hundredths etc. The smallest visible tick would of course depend on the scale. The column model and the drawing code could rather easily be manipulated to support this, although currently the extension is not possible by inheritance or through an API, changing the code is required.
2. It could be possible to mark time intervals (subsets of the whole network exchange data) for different kinds of numerical analysis, like the number of units in the interval, total payload to one direction in the interval, etc.
3. Different drawing options both for the drawing area (protocol headers) and the columns (host variables) to avoid variable overlaps.

2.2.2 Scenario play list

1. Separate the recording mode from the automatic recording actions. It might be desirable to be able to edit the list items WITHOUT having the automatic recording actions enabled.
2. Might implement the BreakPoint item also (as a modal dialog with text).
3. Might implement some kind of configurable timer delays for ENC items and Pause items.

2.2.3 Localization

1. Besides the language selection, you might implement a single checkbox (in the Language menu) for 'Use protocols in English'. When that is selected, all protocol related texts would appear in english. In practice, this might be exactly what many people wish. The protocol related localisable resources would be roughly the ones with the key starting by 'model.variable'.

2.3 Customer comments for improvements

- The text for protocol header fields overlap on the arrows drawn in MSC when 2 units are very close. Data should be always visible in any situation, and it might be necessary to provide the user with some zooming tool that will show the units separately, that is visualizing with larger separation between the lines.
- While playing the MSC animation (play or step forward/backward), when 2 units overlap, they would be better visualized so that their drawing is done separately.

That would mean that first just one line for 1 unit is drawn and then later the second one, even if their transfer happens at the same time.

- In those networking scenarios where, in a given moment, lots of units are transferred in a short period and so the text for their protocol header fields overlaps, it would be nice to hide the text of the "background" units so that the last ones, or the drawn one is shown and clearly visible. Defining which units are background could be tunable, as well.
- Tunable animation steps: it would be nice to be able to have step settings that will allow the user to step from send time to send time, or within receive times only, or a mix of them. Nowadays the stepping is always done on both.
- When the time difference between 2 unit transfers is very long, it should be so that the animation speeds up by itself until between the two transfer.
- The "Show data below now line" option would be interesting.
- Some protocol header fields and variables are only protocol-useful in one of the directions of a transfer. For instance, in an HTTP request, the URL field is necessary, but it is not in the HTTP reply, so it should be possible for a given user through the settings to visualize different variables and protocol header fields for the directions host A to host B and host B to host A.
- In the ENC diagram, the presence of a grey area in the packets (the one correspondent to the payload) gives the idea that the unit goes from the right to the left on the screen, so it gives the idea to the user that the packet in the network goes in that same way, from the host represented on the right to the host represented on the left, which may not be true. Additionally, the units in different layers can be transferred in different directions.
- Clicking on the arrows of the units to get information about them might be interesting.
- Visualizing the receive time of a unit as a variable (in a column) might be interesting.
- Some semantics or filtering options might be useful: for instance, if a protocol header field such as SYN has a value 1 for only 2 units, in always value 0 for the rest of units of the same layer, it should be possible to only show this field when its value is or is not in a certain range, or has a certain value.
- In the settings panel, when changing the scale settings, it should be interesting to preview the changes or have an "Apply" button.
- There are values such as RTO, or TCP states, that could be also calculated and shown.
- Buttons for speeding up or slowing animation speed on the fly (or a slider).

3 Working hours

Abbreviations used

- ME - Meeting (basically for full group, official, minutes taken, local or global)
- GC - Global communication, other than meeting
- LC - Local communication, other than meeting
- PP - Project Planning, writing plans
- DE - Designing, writing design documents
- DO - Documenting the code or writing user documentation
- CO - Coding, including debugging
- TE - Testing (separate unit testing, functional testing, final testing)
- AD - Administration duties (eg. transcribing the minutes...)
- TM - Technical maintenance (Web sites, CVS, other software...)
- RE - Requirement Engineering
- g.i. = general improvements, language corrections, layout, minor details

3.1 Petrozavodsk group

3.1.1 Andrey Ananin

Date	Class	Time	Description
22.01.2004	ME	2	First local meeting
23.01.2004	ME	1	First meeting with Helsinki group
23.01.2004	PP	2	Searching animator analogs
24.01.2004	ME	1	First official Inspection meeting of Petrozavodsk group
26.01.2004	ME	1	Local meeting
27.01.2004	ME	2	Meeting with Helsinki group
28.01.2004	ME	2	First meeting with customer
28.01.2004	ME	2	Meeting with Helsinki group
29.01.2004	ME	1	Meeting with Helsinki group
29.01.2004	ME	1	Local meeting
29.01.2004	ME	1	Making questions
30.01.2004	ME	2	Meeting with customer
30.01.2004	ME	1	Meeting
01.02.2004	ME	4	Inspection meeting

02.02.2004	PP	1	Making Introduction in project plan
02.02.2004	RA	1	Making High-level use cases model
02.02.2004	PP	1	Making Resource requirements section in project plan
03.02.2004	PP	1	Making SE tools and techniques section in project plan
03.02.2004	RA	2	Changing High-level use cases model
03.02.2004	ME	2	Meeting with customer
03.02.2004	ME	2	Meeting with Helsinki group
04.02.2004	ME	1	Local meeting
04.02.2004	AD	1	Filling meeting minutes
04.02.2004	PP	1	Changing SE tools section in project plan
04.02.2004	RA	1	Changing High-level division section
05.02.2004	ME	2	Meeting with Helsinki group and local meeting
05.02.2004	PP	1	Changing Organisation section in project plan
05.02.2004	PP	1	Changing Project structure diagram
06.02.2004	ME	2	Meeting with customer
06.02.2004	RA	2	Developing highlevel use cases model
06.02.2004	PP	1	Changing Organisation section in project plan
06.02.2004	ME	2	Meeting with customer
06.02.2004	ME	1	Local meeting
14.02.2004	ME	1	Local meeting
18.02.2004	ME	1	Local meeting
19.02.2004	PP	1	Checking project plan
19.02.2004	RA	1	Checking and changing requirements specification sections
20.02.2004	RA	2	Creating Analyzer use cases
22.02.2004	RA	2	Creating integral model of Analyzer
28.02.2004	ME	1	Local meeting
28.02.2004	RA	4	Message mapping system requirements and other issues
01.03.2004	RA	1	Events calculator system requirements
03.03.2004	RA	1	Local meeting
04.03.2004	RA	2	Review requirements document
06.03.2004	RA	1	Local meeting

07.03.2004	DE	1	Start design phase, general structure of Design discussion
09.03.2004	DE	2	Message mapper and events calculator preliminary design
10.03.2004	DE	2	Message mapper and events calculator design; possible functions were discussed
12.03.2004	DE	1	Events calculator design
13.03.2004	DE	1	Events calculator design
15.03.2004	ME	1	Local meeting
15.03.2004	DE	2	Events calculator design
16.03.2004	DE	2	Events calculator issues
17.03.2004	DE	1	Developing Message mapping algorithms
17.03.2004	DE	1	Scenarios review
18.03.2004	ME	2	Local meeting and action points issues
19.03.2004	DE	2	Developing Events calculator algorithms
20.03.2004	DE	2	Collective work on Events calculator algorithms
22.03.2004	DE	2	Collective work on PEF
22.03.2004	DE	2	Events calculator design
23.03.2004	DE	2	Events calculator design
24.03.2004	DE	2	Events calculator design
24.03.2004	DE	1	Reading Design document
25.03.2004	ME	1	Local meeting about events calculator and message mapping algorithms
25.03.2004	DE	1	Group meeting and discussing internal data structures
26.03.2004	DE	1	Reading scenarios
27.03.2004	DE	2	Analyzing events and protocol variables
29.03.2004	ME	1	Local meeting
29.03.2004	DE	1	New discussion about events calculator and subdivision of events calculator
29.03.2004	DE	1	Events calculator design
30.03.2004	DE	1	Events calculator structure design
30.03.2004	DE	1	Layer splitter design
31.03.2004	DE	3	Layer splitter algorithms design
01.04.2004	DE	1	Layer splitter algorithms adding
01.04.2004	ME	2	Local meeting and events calculator behavior model
02.04.2004	DE	1	Layer splitter design
02.04.2004	DE	1	Calculator design

03.04.2004	DE	1	Events calculator design
05.04.2004	ME	2	Design inspection meeting
05.04.2004	DE	1	Correcting Design document
07.04.2004	DE	3	Correcting Design document
08.04.2004	DE	3	Correcting Design document
09.04.2004	DE	2	Correcting Design document
10.04.2004	DE	2	Correcting Events calculator
13.04.2004	TE	1	Unit testing
14.04.2004	TE	1	Unit testing
14.04.2004	CO	2	Events calculator implementing
15.04.2004	BD	1	My birthday!...8)
17.04.2004	CO	3	Events calculator implementation
19.04.2004	ME	1	Local meeting
19.04.2004	CO	2	Calculator implementation
20.04.2004	CO	2	Calculator implementation
21.04.2004	CO	4	Calculator implementation (functions build_flows, build_links)
22.04.2004	CO	3	Calculator implementation (functions add_hosts, calculate)
23.04.2004	CO	3	Calculator implementation (functions add_hosts)
26.04.2004	CO	2	Calculator implementation (functions for dropped events)
27.04.2004	CO	3	Calculator implementation (functions for dropped events)
28.04.2004	TE	3	Calculator integration
30.04.2004	TE	4	Calculator integration
01.05.2004	TM	2	Technical issues
01.05.2004	TE	3	Calculator integration
02.05.2004	TE	3	Calculator integration
03.05.2004	ME	2	Meeting with H-group
03.05.2004	TM	4	Solving technical problems and setting computers
04.05.2004	ME	1	Local meeting
04.05.2004	TE	2	Test execution document
05.05.2004	DE	3	Change Data structures in Design document
05.05.2004	DE	1	Change Implementation document
06.05.2004	ME	1	Meeting with H-group
06.05.2004	TM	1	Trying to run Windump tool
07.05.2004	DE	2	Change modules description in Design document
08.05.2004	DE	3	Change modules description in Design document
11.05.2004	DE	3	Change modules description in

Design document				
11.05.2004	CO	1		Events calculator bug fixing
11.05.2004	TM	1		Lambda checking
12.05.2004	PR	3		Dacopan presentation in the PetrSU
13.05.2004	ME	1		Local meeting
13.05.2004	TE	2		Test plan inspection
14.05.2004	TE	1		Implementation document inspection
17.05.2004	ME	1		Local meeting
17.05.2004	TM	1		Manual page structure compiling.
19.05.2004	ME	1		Local meeting.
19.05.2004	DO	1		Writing part of man page and change Design and Implementation documents.
20.05.2004	ME	1		Local meeting.
20.05.2004	DO	1		Writing man page.
27.05.2004	DO	1		Writing features of the Analyzer, whach are not implemented.

3.1.2 Mikhail Kryshen

Date	Class	Time	Description
22.01.2004	ME	2	First local meeting
23.01.2004	ME	1	First meeting with Helsinki group
23.01.2004	PP	2	Searching for protocol visualization Java applets
24.01.2004	ME	1	Local meeting
26.01.2004	ME	1	Local meeting
27.01.2004	ME	2	Meeting with the Helsinki group
27.01.2004	RE	1	Preparing questions for the customer
28.01.2004	ME	2	First meeting with the customer
28.01.2004	ME	2	Meeting with the Helsinki group
29.01.2004	ME	1	Meeting with the Helsinki group
29.01.2004	ME	1	Local meeting
29.01.2004	RE	1	Preparing questions for the customer
30.01.2004	ME	2	Meeting with the customer
30.01.2004	PP	1	Local meeting
01.02.2004	ME	4	Inspection meeting
02.02.2004	PP	2	Writing the organization section
03.02.2004	RE	1	Writing the high-level division model
03.02.2004	ME	2	Meeting with the customer
03.02.2004	ME	2	Meeting with the Helsinki group
04.02.2004	ME	1	Local meeting

04.02.2004	PP	1	Updating the organization section
04.02.2004	PP	3	Making new detailed project structure diagram
05.02.2004	ME	2	Meeting with the Helsinki group
05.02.2004	ME	1	Scenarios
06.02.2004	ME	2	Meeting with the customer
10.02.2004	RE	1	Writing the System Constraints
10.02.2004	ME	2	Meeting with the customer
14.02.2004	ME	1	Local meeting
16.02.2004	AD	2	Transcribing minutes
17.02.2004	RE	1	Working on the Requirements specification document
17.02.2004	RE	2	Learning tcpdump
18.02.2004	ME	1	Local meeting
23.02.2004	RE	2	Working on System constraints and System requirements
23.02.2004	TM	2	The "dia needs X server" problem
23.02.2004	ME	2	Local meeting
26.02.2004	AD	2	Transcribing minutes
26.02.2004	ME	1	Local inspection meeting
27.02.2004	GC	1	Discussion on scenarios and protocol events (forum)
09.03.2004	GC	2	Reading forum and email
10.03.2004	DE	2	Reading the latest Requirement spec. and Design documents.
10.03.2004	DE	1	Designing the protocol events file format (PEF)
11.03.2004	ME	1	Local meeting
11.03.2004	DE	1	Designing PEF
11.03.2004	GC	1	Discussing PEF in the forum
12.03.2004	AD	1	Transcribing minutes
12.03.2004	GC	1	Discussing PEF in the forum
15.03.2004	ME	1	Local meeting
15.03.2004	GC	1	Discussing PEF in the forum
16.03.2004	GC	1	Discussing PEF in the forum
18.03.2004	ME	2	Local meeting
19.03.2004	DE	2	Reviewing the Design document
20.03.2004	LC	2	Developing the Events Calculator algorithm
22.03.2004	DE	1	Reading about the scenario file in the Requirements Specification and Helsinki group's meeting minutes
22.03.2004	DE	1	Designing the PEF Writer module
22.03.2004	ME	1	Local meeting
22.03.2004	LC	1	Discussing PEF

22.03.2004	GC	1	Discussing PEF in the forum
24.03.2004	AD	1	Transcribing minutes
24.03.2004	LC	1	Discussing PEF and analyzer algorithms
24.03.2004	GC	1	Discussing PEF in the forum
25.03.2004	GC	1	Discussing PEF in the forum
25.03.2004	ME	1	Local meeting
25.03.2004	LC	1	Discussing analyzer's internal data structures
26.03.2004	DE	2	Designing the analyzer's events sequence structures
28.03.2004	DE	1	Designing the PEF Writer module
29.03.2004	ME	1	Local meeting
29.03.2004	LC	1	Discussing algorithms and data structures
29.03.2004	DE	1	Updating the main and Analyzer design documents structure
31.03.2004	LC	1	Discussing PTU - ES translation algorithm
31.03.2004	DE	1	Designing the analyzer's ES structures
31.03.2004	LC	2	Consultation on network protocols
01.04.2004	DE	2	Designing the splitter algorithm
01.04.2004	ME	1	Local meeting
01.04.2004	LD	1	Discussing the behavioral model
01.04.2004	AD	1	Transcribing minutes
02.04.2004	DE	1	Designing PEF
02.04.2004	GC	1	Discussing PEF in the forum
02.04.2004	DE	1	Designing the analyzer's ES structures (diagram)
03.04.2004	GC	1	Reading forum, discussion on the drop time approximation
04.04.2004	DE	2	Designing the analyzer's ES structures
04.04.2004	DE	2	Reading the Analyzer Design document, preparing for the inspection meeting
05.04.2004	ME	2	Local design inspection meeting
05.04.2004	TM	2	Reading different coding conventions documents
06.04.2004	TM	1	Reading the GNU Coding Standards document
06.04.2004	TM	3	Making the initial Analyzer directory structure and setting up the build system
07.04.2004	LC	2	The Analyzer seminar
07.04.2004	LC	2	Discussing the Analyzer's

internal structures			
07.04.2004	GC	2	Discussing PEF in the forum
08.04.2004	ME	1	Local meeting
08.04.2004	TM	1	Reading the GNU Coding Standards document
08.04.2004	TM	1	Configuring the build system, writing README and CodingStyle
12.04.2004	TE	2	Writing test plan: unit testing
12.04.2004	ME	1	Local meeting
12.04.2004	AD	1	Transcribing minutes
12.04.2004	TM	1	Setting up the test suite
14.04.2004	DE	1	Adding the link structure to ES diagram
14.04.2004	CO	1	Implementing data structures
14.04.2004	ME	1	Local meeting
14.04.2004	CO	1	Implementing data structures
15.04.2004	GC	2	Discussing PEF and timestamp format in the forum
15.04.2004	CO	1	Implementing PEF writer
19.04.2004	TE	1	Writing test plan: unit testing
19.04.2004	ME	1	Local meeting
19.04.2004	CO	1	Updates in different files
19.04.2004	TM	1	Configuring the build system to support internationalization (gettext)
21.04.2004	CO	3	Implementing the splitter
22.04.2004	ME	1	Local meeting
22.04.2004	TM	2	Configuring the build system to link test programs correctly
22.04.2004	CO	1	Implementing the splitter
23.04.2004	CO	2	Implementing the splitter
23.04.2004	CO	1	Implementing PEF writer
23.04.2004	TM	1	Configuring the test suite
23.04.2004	CO	2	Implementing PEF writer
24.04.2004	ME	1	Local meeting
26.04.2004	CO	2	Implementing the splitter
28.04.2004	CO	3	Implementing the splitter (unfragmentation)
29.04.2004	CO	3	Implementing the splitter (unfragmentation)
30.04.2004	CO	5	Implementing the splitter
30.04.2004	TE	2	Testing the splitter
01.05.2004	TE	1	Testing the splitter
01.05.2004	ME	1	Local meeting
01.05.2004	TM	2	Configuring computers in the room 138

01.05.2004	TE	2	Testing the splitter
02.05.2004	LC	1	Analyzer intregration
02.05.2004	TE	2	Testing the splitter
02.05.2004	TM	1	Installing Eclipse
02.05.2004	CO	3	Improving the splitter
03.05.2004	ME	2	Global meeting
03.05.2004	TE	3	Testing the Analyzer
04.05.2004	TE	2	Testing the splitter
04.05.2004	ME	1	Local meeting
04.05.2004	CO	3	Improving the splitter
05.05.2004	TE	2	Testing the Analyzer
05.05.2004	CO	3	Working on TCP support for splitter
06.05.2004	TE	2	Creating additional tcpdump logs
06.05.2004	ME	1	Global Meeting
06.05.2004	TM	1	Installing windump tool
06.05.2004	TE	2	Testing the splitter
06.05.2004	CO	2	Debugging TCP code in splitter
07.05.2004	TE	4	Testing the splitter and PEF writer
08.05.2004	TE	2	Testing the Analyzer
10.05.2004	ME	1	Local meeting
10.05.2004	ME	1	Global meeting
10.05.2004	TM	1	Animator localization
10.05.2004	TE	2	Testing the Analyzer
11.05.2004	AD	2	Transcribing minutes
11.05.2004	TE	4	Testing the Analyzer
12.05.2004	TE	1	Integration testing
12.05.2004	TM	2	Preparing for the presentation
12.05.2004	GC	1	Presentation
13.05.2004	ME	1	Local meeting
13.05.2004	TM	1	Moving CVS repository from zeta to melkinpaasi
14.05.2004	CO	3	Fixing splitter (bug #0014)
15.05.2004	TM	1	Adding copyright comments to the Analyzer source files
17.05.2004	ME	1	Local meeting
17.05.2004	TE	1	Testing the Analyzer
18.05.2004	TM	1	Adding copyright comments to the Analyzer source files
19.05.2004	ME	1	Local meeting
19.05.2004	TM	1	Configuring the build system to include the man page into distribution
20.05.2004	ME	1	Local meeting
24.05.2004	ME	1	Local meeting

25.05.2004	CO	2	Fixing bug 0022
25.05.2004	TE	2	Testing the Analyzer and reviewing the code
26.05.2004	TM	1	Reviewing error messages and code
26.05.2004	DO	2	Reviewing and correcting the Analyzer manual
27.05.2004	DO	1	Writing the user manual
27.05.2004	ME	1	Local meeting
27.05.2004	TM	1	Creating the Analyzer distribution package and testing it

3.1.3 Kirill Kulakov

Date	Task	Time	Description
19.01.2004	ME	1	First meeting, discussion about our project
20.01.2004	RE	1	Reading customer proposals and distributed SE document
22.01.2004	ME	1	First informal meeting with Helsinki group
22.01.2004	PP	2	Preparing questions about project for Helsinki group
23.01.2004	ME	2	Meeting with Helsinki group
23.01.2004	LC	1	Meeting, distribution tasks between members
24.01.2004	PP	2	Making questions for the customer
24.01.2004	LC	1	Meeting, distribution tasks between members
25.01.2004	ME	1	Meeting, discussion about questions for customer
26.01.2004	LC	1	Meeting, distribution tasks between members
27.01.2004	ME	1	Meeting
27.01.2004	ME	2	Meeting with Helsinki group
28.01.2004	ME	1	Meeting
28.01.2004	ME	2	Meeting with Customer
29.01.2004	ME	1	Meeting with Helsinki group
29.01.2004	LC	1	Meeting, distribution tasks between members
30.01.2004	ME	2	Meeting with Customer
30.01.2004	LC	1	Meeting, distribution tasks between members
01.02.2004	ME	4	Meeting, discussion about current state, distribution tasks between members
03.02.2004	ME	4	Meeting with Customer, discussion about current tasks
04.02.2004	ME	1	Meeting, Discussion after Customer's meeting, distribution tasks between members
05.02.2004	ME	2	Meeting with Helsinki group
05.02.2004	LC	1	Distribution tasks between members

05.02.2004 PP 3 Preparing global schedule
 06.02.2004 RA 2 Discussion about use case model
 06.02.2004 ME 2 Meeting with Customer
 06.02.2004 LA 1 Distribution tasks between members
 06.02.2004 PP 4 Modifying Global schedule, making GANTT
 diagram
 08.02.2004 ME 2 Meeting, distribution tasks between members
 10.02.2004 ME 2 Meeting with Customer
 14.02.2004 ME 1 Meeting, distribution tasks between members
 14.02.2004 GC 2 Answering and asking questions
 18.02.2004 ME 1 Local meeting
 19.02.2004 LC 3 Distribution, ask, answer.
 20.02.2004 RS 1 Distribution tasks between members
 21.02.2004 LC 2 Management
 23.02.2004 ME 2 Local meeting
 23.02.2004 LC 1 Distribution, ask, answer.
 24.02.2004 LC 2 Distribution, ask, answer.
 25.02.2004 LC 1 Distribution, ask, answer.
 26.02.2004 ME 1 Local meeting
 26.02.2004 LC 1 Distribution, ask, answer.
 27.02.2004 LC 2 Distribution, ask, answer.
 09.03.2004 DE 2 Make design document structure
 10.03.2004 LC 2 Distribution, ask, answer.
 11.03.2004 ME 1 Local meeting
 11.03.2004 LC 1 Local communication
 12.03.2004 LC 2 Distribution, ask, answer.
 13.03.2004 LC 1 Distribution, ask, answer.
 15.03.2004 ME 1 Local meeting
 15.03.2004 LC 1 Distribution, ask, answer.
 16.03.2004 LC 2 Distribution, ask, answer.
 16.03.2004 PP 1 Correct internal schedule.
 17.03.2004 DE 1 Make template for analyzer subsystems in
 design doc
 17.03.2004 LC 2 Distribution, ask, answer.
 18.03.2004 ME 2 Local meeting
 18.03.2004 DE 1 Participate in brainstorm
 19.03.2004 LC 2 Distribution, ask, answer.
 20.03.2004 LC 1 Distribution, ask, answer.
 20.03.2004 DE 2 Participate in brainstorm
 22.03.2004 LC 1 Local meeting
 22.03.2004 DE 1 Participate in brainstorm
 22.03.2004 LC 1 Distribution, ask, answer.
 23.03.2004 LC 2 Distribution, ask, answer.
 24.03.2004 LC 1 Distribution, ask, answer.
 25.03.2004 ME 1 Local meeting.

25.03.2004 DE 2 Participate in brainstorm.
27.03.2004 RA 1 Review requirement document.
27.03.2004 LC 2 Distribution, ask, answer.
29.03.2004 ME 1 Local meeting.
29.03.2004 LC 1 Distribution, ask, answer.
30.03.2004 LC 1 Distribution, ask, answer.
30.03.2004 DE 1 Make behavioral model.
31.03.2004 DE 3 Make behavioral model.
31.03.2004 DE 1 Make test document.
31.03.2004 LC 2 Distribution, ask, answer.
01.04.2004 LC 2 Distribution, ask, answer.
01.04.2004 ME 2 Local meeting
01.04.2004 LC 3 Distribution, ask, answer.
02.04.2004 LC 2 Distribution, ask, answer.
03.04.2004 DE 9 Make behavioral model, introduction.
04.04.2004 DE 3 Make main module and configuration.
05.04.2004 ME 2 Local meeting.
05.04.2004 DE 2 Small fixes after meeting.
06.04.2004 LC 1 Distribution, ask, answer.
06.04.2004 DE 4 Fixed document after inspection.
07.04.2004 DE 2 Fixed document after inspection.
08.04.2004 ME 1 Local meeting
08.04.2004 DE 2 Fixed document after inspection.
09.04.2004 LC 1 Distribution, ask, answer.
10.04.2004 DE 4 Fixed design document.
12.04.2004 DE 1 Fixed design document.
12.04.2004 ME 1 Local meeting.
13.04.2004 DE 4 Fixed references, text, etc.
14.04.2004 ME 1 Local meeting
14.04.2004 LC 2 Distribution, ask, answer.
15.04.2004 DO 3 Starts implementation document
16.04.2004 TE 4 Filling approach and validation testing.
17.04.2004 LC 2 Distribution, ask, answer.
19.04.2004 ME 1 Local meeting
19.04.2004 LC 4 Distribution, ask, answer.
20.04.2004 TE 2 Make test execution document, make template
20.04.2004 LC 2 Distribution, ask, answer.
21.04.2004 LC 1 Distribution, ask, answer.
21.04.2004 LC 3 Distribution, ask, answer.
22.04.2004 CO 3 Implement main module.
22.04.2004 TE 3 Integration testing: main - cmd parser
23.04.2004 LC 1 Distribution, ask, answer.
23.04.2004 CO 1 Implement main module.
24.04.2004 LC 2 Distribution, ask, answer.
26.04.2004 ME 1 Local meeting.

26.04.2004 TE 1 Filling test execution document.
 26.04.2004 LC 1 Distributing, ask, answer.
 27.04.2004 TE 4 Integration testing: main - message mapper
 28.04.2004 TE 6 Integration testing: main - message mapper,
 events calculator
 29.04.2004 TE 3 Testing layer splitter module.
 30.04.2004 TE 3 Testing layer splitter module.
 01.05.2004 ME 1 Local meeting
 01.05.2004 TE 5 Testing Events calculator module.
 02.05.2004 TE 4 Testing Events calculator module.
 03.05.2004 TM 4 Configure computers.
 03.05.2004 ME 1 DaCoPAn meeting.
 04.05.2004 TE 9 Write integration tests, some test execution
 05.05.2004 TE 7 Testing, fixed some bags in Analyzer
 06.05.2004 TE 5 Create packet trace files, testing Analyzer
 07.05.2004 TE 2 Testing animator
 08.05.2004 TE 3 Testing Analyzer
 10.05.2004 ME 1 Local meeting
 10.05.2004 ME 1 Global meeting
 10.05.2004 TM 3 Animator localization
 10.05.2004 TE 2 Testing the Analyzer
 11.05.2004 TE 3 Testing the Analyzer
 12.05.2004 TE 2 Integration testing
 12.05.2004 TM 4 Preparing for the presentation
 12.05.2004 GC 1 Presentation
 13.05.2004 ME 1 Local meeting
 13.05.2004 TM 2 Minor fixes in Analyzer algorithm
 13.05.2004 TE 3 Testing Analyzer and Animator
 14.05.2004 TE 2 Testing Analyzer
 17.05.2004 ME 1 Local meeting
 17.05.2004 TE 1 Fix bug in Analyzer
 17.05.2004 TM 1 Removing accounts from work room
 18.05.2004 LC 1 Distributing, ask, answer
 19.05.2004 ME 1 Local meeting
 20.05.2004 DO 1 Write man page
 20.05.2004 LC 2 Distributing, ask, answer
 26.05.2004 LC 2 Distributing, ask, answer
 27.05.2004 LC 3 Distributing tasks

3.1.4 Andrew Salo

Date	Class	Time	Description
22.01.2004	ME	2	First local meeting
23.01.2004	ME	1	First meeting with Helsinki group

23.01.2004 TM 3 Working on CVS repositories
 synchronization problem
 24.01.2004 ME 1 Local meeting
 26.01.2004 ME 1 Local meeting
 26.01.2004 TM 2 Working on CVS repositories synchronization
 problem
 27.01.2004 ME 2 Meeting with the Helsinki group
 27.01.2004 RA 2 Preparing questions for the customer
 28.01.2004 ME 2 First meeting with the customer
 28.01.2004 ME 2 Meeting with the Helsinki group
 29.01.2004 ME 1 Meeting with the Helsinki group
 29.01.2004 ME 1 Local meeting
 29.01.2004 RA 1 Preparing questions for the customer
 30.01.2004 ME 2 Meeting with the customer
 30.01.2004 PP 1 Local meeting
 01.02.2004 ME 4 Inspection meeting
 02.02.2004 PP 1 Preparing environment model diagram
 02.02.2004 RA 1 Preparing system scope diagram
 02.02.2004 TM 1 Modifying Makefile (translation from *.dia
 and *.fig to*.eps)
 03.02.2004 PP 1 Modifications in introduction
 03.02.2004 ME 2 Meeting with the customer
 03.02.2004 ME 2 Meeting with the Helsinki group
 04.02.2004 ME 1 Local meeting
 04.02.2004 AD 2 Transcribing the minutes
 04.02.2004 RA 2 Modifying system scope diagram
 05.02.2004 ME 2 Meeting with the Helsinki group
 05.02.2004 AD 1 Transcribing the minutes
 05.02.2004 RA 1 Textual description for system scope diagram
 05.02.2004 TM 1 Dia installation at zeta.cs.karelia.ru
 06.02.2004 ME 2 Meeting with the customer
 06.02.2004 ME 1 Local meeting
 10.02.2004 PP 2 Computing analyzer size estimates
 10.02.2004 PP 1 Changing system context diagram
 10.02.2004 ME 2 Meeting with the customer
 14.02.2004 ME 1 Local meeting
 14.02.2004 AD 1 Transcribing the minutes
 14.02.2004 PP 2 Computing analyzer size estimates
 17.02.2004 TM 1 SSH public key authentication issues
 18.02.2004 ME 1 Local meeting
 18.02.2004 PP 2 Computing analyzer size estimates; changing
 email lists
 19.02.2004 RA 1 Modifying data model
 20.02.2004 TM 1 Registration issues
 20.02.2004 TM 1 Cygwin issues

20.02.2004 RA 1 Modifying data model
23.02.2004 ME 2 Local meeting
23.02.2004 PP 1 Fixing Project Plan document
25.02.2004 TM 2 Working with tcpdump logs
26.02.2004 ME 1 Local meeting
26.02.2004 AD 1 Transcribing the minutes
28.02.2004 RA 3 Log Reader requirements
01.03.2004 RA 3 Protocol event file requirements
03.03.2004 ME 1 Local meeting
03.03.2004 AD 1 Transcribing the minutes
06.03.2004 ME 1 Local meeting
07.03.2004 TM 2 Libpcap issues
09.03.2004 TM 2 Libpcap issues
10.03.2004 DE 3 Subsystems design
11.03.2004 ME 1 Local meeting
11.03.2004 DE 2 Subsystems design
12.03.2004 DE 3 Subsystems design
13.03.2004 DE 6 Subsystems design
14.03.2004 DE 2 Subsystems design
15.03.2004 ME 1 Local meeting
15.03.2004 TM 1 Transcribing the minutes
15.03.2004 DE 2 Subsystems design
16.03.2004 TM 2 Libpcap issues
17.03.2004 DE 3 Subsystems design
19.03.2004 DE 2 Subsystems design
19.03.2004 TM 1 Libpcap issues
20.03.2004 TM 1 Libpcap issues
20.03.2004 TM 1 Coding conventions issues
20.03.2004 LC 1 Local communication
21.03.2004 TM 3 Libpcap & tcpdump issues
21.03.2004 DE 1 Subsystems design
22.03.2004 DE 1 Subsystems design
22.03.2004 TM 1 Libpcap & tcpdump issues
22.03.2004 ME 1 Local meeting
22.03.2004 LC 1 Designing protocol events file format
22.03.2004 GC 1 Forum correspondence
24.02.2004 DE 1 Subsystems design
24.03.2004 LC 1 Discussing protocols & connections
24.03.2004 DE 1 Subsystems design
25.03.2004 DE 2 Subsystems design
25.03.2004 ME 1 Local meeting
25.03.2004 LC 1 Internal data structures discussion
26.03.2004 DE 3 Log reader & data structures design
26.03.2004 LC 1 Log reader & data structures discussion
27.03.2004 AD 1 Transcribing the minutes

27.03.2004 DE 1 Log reader & data structures design
29.03.2004 ME 1 Local meeting
29.03.2004 LC 1 Discussing algorithms and data structures
29.03.2004 TM 1 Design document division
31.03.2004 DE 2 Data structures design
31.03.2004 LC 2 Consultation on network protocols
31.03.2004 DE 2 Reading RFC's
01.04.2004 DE 2 Data structures design
01.04.2004 ME 1 Local meeting
01.04.2004 LC 1 Data structures discussion
01.04.2004 DE 2 Reading RFC's
02.04.2004 DE 3 Reading RFC's
02.04.2004 DE 2 Data structures design
03.04.2004 LC 2 Data structures discussion
05.04.2004 ME 2 Local meeting (design document inspection)
05.04.2004 AD 1 Transcribing the minutes
07.04.2004 LC 2 The Analyzer design seminar
07.04.2004 DE 5 Data structures design
08.04.2004 ME 1 Local meeting
08.04.2004 DE 4 Subsystems design
09.04.2004 DE 4 Subsystems design
10.04.2004 DE 2 Subsystems design
12.04.2004 ME 1 Local meeting
12.04.2004 CO 3 Implementing the Analyzer
14.04.2004 CO 2 Implementing command line parser & error
processing module
14.04.2004 ME 1 Local meeting
14.04.2004 AD 1 Transcribing the minutes
14.04.2004 CO 1 Implementing command line parser & error
processing module
15.04.2004 CO 6 Implementing log reader
16.04.2004 CO 4 Implementing log reader
17.04.2004 CO 3 Implementing log reader
19.04.2004 ME 1 Local meeting
19.04.2004 CO 3 Implementing log reader
21.04.2004 TE 4 Test plan
21.04.2004 CO 2 Implementing utility function
22.04.2004 TE 1 Test plan
22.04.2004 ME 1 Local meeting
22.04.2004 TM 3 Configuring test system
23.04.2004 TE 6 Test planning, coding, configuring &
executing
24.04.2004 TE 3 Modules testing
24.04.2004 LC 1 Local meeting
26.04.2004 TE 5 Testing

27.04.2004 TE 2 Log reader integration testing
 28.04.2004 CO 2 Implementing time alignments
 29.04.2004 TE 3 Testing log reader
 30.04.2004 CO 4 Implementing HTTP and DNS user defined ports support
 30.04.2004 TE 3 Testing HTTP and DNS user defined ports support
 01.05.2004 ME 1 Local meeting
 01.05.2004 TM 2 Software installation
 01.05.2004 TE 2 Testing
 10.05.2004 CO 4 Implementing HTTP message parser
 11.05.2004 CO 3 Implementing HTTP message parser
 12.05.2004 CO 3 Fixing HTTP message parser
 12.05.2004 GC 1 Presentation
 13.05.2004 CO 2 Fixing HTTP message parser
 15.05.2004 CO 3 Implementing ARP header writer
 19.05.2004 CO 4 Code inspection & fixes
 19.05.2004 ME 1 Local meeting
 19.05.2004 AD 1 Transcribing the minutes
 19.05.2004 TM 1 Installation & configuration issues
 19.05.2004 CO 1 Redirecting debug information output to stderr

3.1.5 Viktor Surikov

Date	Class	Time	Description
14.02.2004	ME	1	I have joined the project. First local meeting with my participation.
16.02.2004	PP	1	Studied the project plan.
17.02.2004	RE	1	Studied the current version of the requirements specification.
18.02.2004	ME	1	Local meeting.
19.02.2004	TM	1	Adjust local computer for work with CVS and server melkii.cs.helsinki.fi.
20.02.2004	TM	1	Adjust access to CVS. Made checkout. Studied structure of directories and rules.
21.02.2004	RE	1	Planing structure of low-level use cases model
23.02.2004	ME	1	Local meeting
24.02.2004	RE	2	Painted and added high-level architecture model.
25.02.2004	RE	1	Added high-level model in Requirements Specification. Made sketches for description of the Messages mapping.

26.02.2004	ME	1	Local meeting. Revision Requirements Specification.
27.02.2004	RE	2	Wrote comment for high-level architecture model of DaCoPAn.
27.02.2004	RE	1	Searched for defects and mistakes in Requirements specification.
28.02.2004	ME	1	Local meeting
28.02.2004	RE	1	Corrected textual description for high-level model
01.03.2004	RE	1	Message mapping & Events calculator system requirements
02.03.2004	RE	1	Started last inspection Requirements specification
03.03.2004	ME	1	Local meeting: Started design of Analyzer.
04.03.2004	RE	1	Finished inspection Requirement specification.
05.03.2004	DE	1	First thoughts about design.
06.03.2004	ME	1	Local meeting.
07.03.2004	DE	2	Designed general architecture model
09.03.2004	DE	2	Message mapper and Events calculator preliminary design
10.03.2004	DE	2	Painted general diagram of architecture model. Added textual description for diagram.
11.03.2004	DE	1	Fixed architecture model diagram.
11.03.2004	ME	1	Local meeting
12.03.2004	DE	1	Design submoduls and general architecture.
15.03.2004	ME	1	Local meeting
15.03.2004	DE	1	Design data flow diagram
16.03.2004	DE	1	Development Message Mapper algoritm
17.03.2004	DE	2	Painted and added Analyzer architecture diagrams
18.03.2004	ME	2	Local meeting.
19.03.2004	DE	1	Write end Message mapper algoritm.
20.03.2004	LC	3	Meeting about Events calculator Algoritms
22.03.2004	ME	1	Local meeting
22.03.2004	LC	1	Protocol evnts file format disscussion
22.03.2004	DE	1	Design internal structure
23.03.2004	DE	2	Events calculator design
23.03.2004	DE	1	Message mapper design
24.03.2004	LC	1	PEF format disscussion
25.03.2004	ME	1	Local meeting
25.03.2004	LC	2	Internal data structures discussion
26.03.2004	DE	1	Data structure design
27.03.2004	DE	2	Data structure design
29.03.2004	ME	1	Meeting with supervisor

29.03.2004	ME	1	Local meeting
29.03.2004	DE	1	Discussion about events calculator and subdivision of events calculator
29.03.2004	DE	1	Data structure design
30.03.2004	DE	1	Message mapper design
31.03.2004	DE	3	Message mapper design and data structure design
01.04.2004	ME	1	Local meeting
01.04.2004	DE	1	Message mapper behavior model design and message mapper design
02.04.2004	DE	3	Reading RFC about IP.
07.04.2004	??	0	I was ill.
07.03.2004	DE	1	Message mapper design
07.03.2004	DE	1	Message mapper design
08.04.2004	ME	1	Local meeting
08.04.2004	TM	1	Reading the GNU Coding Standards document
09.04.2004	CO	1	Started write code
10.04.2004	CO	1	Write code of data structures
12.04.2004	ME	1	Local meeting
12.04.2004	TM	2	Problems with CVS.
13.04.2004	CO	2	Implimentating the Message mapper.
14.04.2004	ME	1	Local meeting.
14.04.2004	CO	2	Implimentating the Message mapper.
15.04.2004	CO	2	Implimentating the Message mapper.
16.04.2004	CO	1	Implimentating the Message mapper.
17.04.2004	CO	2	Implimentating the Message mapper.
19.04.2004	ME	1	Local meeting.
19.04.2004	CO	2	Implimentating the Message mapper.
20.04.2004	CO	2	Implimentating the Message mapper.
21.04.2004	CO	3	Implimentating the Message mapper.
22.04.2004	ME	1	Local meeting.
22.04.2004	CO	1	Implimentating the Message mapper.
23.04.2004	CO	2	Implimentating the Message mapper.
24.04.2004	CO	3	Implimentating the Message mapper.
26.04.2004	CO	3	Implimentating the Message mapper.
27.04.2004	CO	2	Implimentating the Message mapper.
28.04.2004	CO	3	Start integration the Message mapper.
30.04.2004	CO	1	Implimentating the PEF writer.
01.05.2004	ME	1	Local meeting.
01.05.2004	TM	1	Set programs on computers in 138.
01.05.2004	CO	2	Implimentating the PEF writer.
02.05.2004	CO	1	Implimentating the PEF writer.
02.05.2004	CO	3	Testing and implimentating the PEF writer.
03.05.2004	GC	1	To welcome H-group
03.05.2004	CO	3	Testing and implimentating the PEF writer.

03.05.2004	ME	2	Global meeting.
04.05.2004	CO	3	Testing Analyzer and fixed errors in the PEF writer.
04.05.2004	ME	1	Local meeting.
04.05.2004	TE	2	Fixed bugs in the PEF writer.
05.05.2004	TE	6	Fixed some bags in Analyzer.
06.05.2004	TE	6	Fixed some bags in Analyzer.
05.05.2004	TE	6	Fixed some bags in Analyzer.
08.05.2004	TE	6	Fixed some bags in Analyzer.
10.05.2004	ME	1	Local meeting
10.05.2004	ME	1	Global meeting
10.05.2004	TE	2	Start global integration testing.
11.05.2004	TE	3	Fixed some bags in Analyzer.
12.05.2004	TM	1	Preparing for the presentation.
12.05.2004	GC	1	Presentation.
17.05.2004	ME	1	Local meeting
17.05.2004	TE	1	Fixed format of variables in the PEF writer.

3.2 Helsinki group

3.2.1 Jari Aarniala

Date	Task	Time	Description
21.01.2004	ME	4	First meeting, discussions with group members
22.01.2004	TM	1	Looking at wiki systems
22.01.2004	ME	1	First meeting with Petrozavodsk group
23.01.2004	ME	2	Meeting with the Helsinki group
25.01.2004	ME	3	Meeting, making questions for the customer
27.01.2004	ME	2	Meeting with Petrozavodsk group
28.01.2004	ME	2	Meeting with the client
28.01.2004	AD	2	Writing meeting minutes
29.01.2004	ME	1	Meeting with Petrozavodsk group
29.01.2004	TM	1	CVS repository installation
29.01.2004	PP	2	Writing risk analysis section of project plan
29.01.2004	TM	1	Installed ViewCVS
30.01.2004	ME	2	Meeting with client
30.01.2004	ME	1	Discussing the meeting

01.02.2004	ME	6	Requirements elicitation meeting with finnish team
03.02.2004	ME	2	Meeting with the client
03.02.2004	ME	1	Meeting continued with Petrozavodsk team
05.02.2004	ME	2	Global meeting
05.02.2004	RE	5	List of scenarios
06.02.2004	PP	1	Finishing risk analysis section
06.02.2004	ME	2	Global meeting, with customer
08.02.2004	RE	1	Working on some scenarios
10.02.2004	ME	2	Global meeting, with customer
10.02.2004	AD	1	Writing meeting minutes
-- 2. period			
12.02.2004	ME	2	Local meeting
12.02.2004	PP	2	Size estimate
17.02.2004	ME	2	Local meeting
19.02.2004	RE	4	Animation types brainstorming
21.02.2004	RE	3	Animation type meeting at Alexandria
22.02.2004	RE	1	Created encapsulation animation diagram
-- 3. period			
24.02.2004	ME	2	Local meeting and review
27.02.2004	RE	2	Req doc: encapsulation animation
27.02.2004	ME	2	Local meeting
29.02.2004	RE	1	Req doc: animation types
01.03.2004	RE	2	Req doc: animation types, system requirements
02.03.2004	ME	2	Local meeting
04.03.2004	ME	2	Local meeting, design
04.03.2004	DE	2	Design w/ Jon & Jarkko
08.03.2004	DE	2	UML class diagram sketch
09.03.2004	RE	2	Reviewing req. doc
09.03.2004	DE	3	Design meeting with Alex and Carlos
09.03.2004	ME	2	Req. doc review
11.03.2004	ME	2	Local meeting
11.03.2004	DE	1	Design discussions
11.03.2004	RE	1	Fixes to section 2 of req. doc

11.03.2004	DE	2	Draft of coding conventions document
12.03.2004	DE	3	Designing data structures with Alex and Carlos
-- 4. period			
15.03.2004	DE	4	Coding/designing prototype classes and tests
16.03.2004	ME	2	Local meeting, design
16.03.2004	GC	1	Mail/forum communication
18.03.2004	ME	2	Local meeting
18.03.2004	DE	1	Design discussions
22.03.2004	GC	1	Mail about the XML format, forum discussions
22.03.2004	DE	2	Coding prototype classes, adding them to CVS
23.03.2004	ME	2	Local meeting
25.03.2004	ME	3	Local meeting and design dicussions
28.03.2004	DE	4	Designing XML I/O classes
29.03.2004	DE	1	Changes to XML DTD
29.03.2004	GC	1	Mail + forum communications
05.04.2004	DE	4	Design for PEF and scenario file
06.04.2004	ME	2	Local meeting
06.04.2004	DE	2	Design for PEF and scenario file
07.04.2004	DE	3	Changes to XML DTD and PEF
07.04.2004	AD	1	Ant build script for publishing javadocs
08.04.2004	CO	2	Testing the XStream library
12.04.2004	CO	4	PEF reader + unit tests
13.04.2004	CO	2	PEF reader
13.04.2004	ME	2	Local meeting
13.04.2004	CO	1	Java issues with Carlos and Alex
13.04.2004	CO	4	Committing changes, solving conflicts, coding conventions document
14.04.2004	AD	2	Ant build script changes (jar target, publishing javadocs)
14.04.2004	DE	2	Changes to XML DTD, forum discussions
15.04.2004	ME	2	Local implementation meeting
15.04.2004	AD	2	Setting up shared Eclipse


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installation, trying out test coverage tools
15.04.2004      CO      3      Finishing the PEF
15.04.2004      GC      1      DTD/timestamp format discussion
in forum
19.04.2004      DE      2      Finalizing (hopefully) PEF DTD,
forum communication
20.04.2004      CO      7      Coding data structures and PEF
reader
20.04.2004      ME      2      Local meeting
22.04.2004      CO      6      Scenario file coding, team work
at dept.
24.04.2004      CO      4      Scenario file coding + test cases
25.04.2004      CO      2      Scenario file, forum
communications
27.04.2004      CO      3      General improvements to test
cases, Enc discussion with Jon
27.04.2004      ME      3      Local meeting
28.04.2004      CO      2      Enc panel graphics
29.04.2004      ME      2      Local meeting
29.04.2004      CO      9      Coding the Enc panel

-- Petrozavodsk!
03.05.2004      CO      5      Petrozavodsk: coding the Animator
03.05.2004      ME      1      Global meeting
04.05.2004      CO      8      Coding, pef reader changes
05.05.2004      CO      9      Coding, scenario file
06.05.2004      CO      9      Coding, scenario file
06.05.2004      ME      1      Global meeting
07.05.2004      CO     10      Nice longish coding session
08.05.2004      CO      6      Coding, testing
-- 09.05.2004 - a day off

10.05.2004      CO     11      Testing scenarios and animation
sequences
11.05.2004      CO      7      Updating design document, coding
progress indicator
12.05.2004      CO      5      Moved resources to a new
directory, added licenses to about box

-- Back in .fi
19.05.2004      ME      3      Meeting
19.05.2004      CO      3      Bug fixes, getting computer up to
date with latest version
20.05.2004      DO      5      Created implementation document,
updated design doc with diagrams etc.

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20.05.2004	CO	2	Bug hunting, email communication
24.05.2004	CO	5	Bug fixes, enabled variables to be host-specific
25.05.2004	ME	2	Meeting
27.05.2004	DO	5	User manual, files section + one bug fix to iterator
27.05.2004	ME	2	THE demo!

3.2.2 Carlos Arrastia Aparicio

DATE	CLASS	HOURS	TASK
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-- 1st period

21.01.2004	ME	2	1st project meeting
23.01.2004	GC	2	Read info about CVS
23.01.2004	ME	2	Group meeting
23.01.2004	ME	2	Common meeting with russian group. Administrative affairs
23.01.2004	TM	2	Website ideas/planning with Jonathan
25.01.2004	TM	2	Website planning, research
25.01.2004	ME	3	Meeting with workgroup to discuss questions to present to the customer.
25.01.2004	TM	3	Website development.
27.01.2004	TM	3	Adaptation of layout to the Twiki website and more features.
27.01.2004	ME	2	Meeting with russiang group to discuss administrative affairs and questions to present to the customer.
28.01.2004	ME	2	First meeting with customer.
28.01.2004	GC	2	Prepare presentation about TWiki homepage.
29.01.2004	ME	1	Meeting with russian group to discuss more questions to present to the customer.
29.01.2004	TM	3	Register users in Twiki systems and set up some features of it.
30.01.2004	GC	2	Write first part of Basic use of CVS
30.01.2004	ME	3	Second meeting with customer to ask questions about product, and meeting with russian group to assign task for next meeting.
30.01.2004	AD	2	Type minutes of day
31.01.2004	PP	1	Find resources requirements and monitoring with Alex
01.02.2004	ME	4	Meeting of finnish group to find requierements
02.02.2004	GC	1	Write second part of Basic use of CVS

03.02.2004 ME 4 Common meeting with russian group and some
website
improvements
04.02.2004 TM 3 Forum set-up
05.02.2004 ME 2 Common meeting with russian group
05.02.2004 PP 5 Discussion about scenarios and way to present
them
06.02.2004 ME 2 Meeting with the customer
06.02.2004 AD 2 Type minutes of the meeting
08.02.2004 PP 1 Scenarios
09.02.2004 PP 4 Scenarios

-- 2nd period

10.02.2004 ME 2 Meeting with the customer
12.02.2004 ME 2 Helsinki Group Meeting
17.02.2004 ME 2 Helsinki Group Meeting
17.02.2004 PP 3 Correct Scenarios
18.02.2004 PP 4 Correct Scenarios and templates
19.02.2004 ME 1 Helsinki Group Meeting
19.02.2004 PP 3 Scenarios and use-cases
22.02.2004 PP 4 Scenarios and use-cases

-- 3rd period

23.02.2004 PP 4 Scenarios and use-cases
24.02.2004 ME 2 Helsinki Group meeting
27.02.2004 ME 2 Helsinki Group meeting
01.03.2004 PP 3 Elaborating and refining sections of
Requirements Specifications
02.03.2004 ME 2 Helsinki Group meeting
02.03.2004 PP 1 Some fixes done in the Requirements
specification document
04.03.2004 ME 2 Helsinki Gorup Meeting
08.03.2004 PP 2 Reviewing Requirements specifications
09.03.2004 PP 2 Reviewing Requirements specifications
09.03.2004 DE 1 Data structures design
09.03.2004 ME 2 Requirements specifications review
09.03.2004 AD 3 Typing minutes of the review.
10.03.2004 AD 2 Typing minutes of the review.
11.03.2004 ME 2 Helsinki Group Meeting
12.03.2004 DE 3 Data structures design

-- 4th period

15.03.2004 PP 2 Make changes to requirements specification document
15.03.2004 DE 1 Data structures design
16.03.2004 DE 1 Data structures design
18.03.2004 ME 2 Helsinki Group Meeting
25.03.2004 ME 2 Helsinki Group Meeting
28.03.2004 DE 3 Data Structures Design
30.03.2004 ME 2 Helsinki Group Meeting
30.03.2004 DE 1 Data Structures Design
31.03.2004 AD 1 Typing minutes.
31.03.2004 DE 2 Design document.
01.04.2004 ME 2 Helsinki Group Meeting
02.04.2004 DE 1 Writing document
04.04.2004 DE 2 Design notes framework
05.04.2004 DE 3 Writing design document
06.04.2004 DE 2 Design with group members
06.04.2004 ME 2 Group meeting
08.04.2004 ME 2 Group meeting
08.04.2004 DE 3 Writing settings framework.
09.04.2004 ME 2 Group meeting
10.04.2004 CO 2 Setting up eclipse and making some coding tests
11.04.2004 CO 4 Writing classes for the data structures.
12.04.2004 CO 5 Writing settings panel and other classes
13.04.2004 ME 2 Group meeting
13.04.2004 CO 2 Writing settings panel
14.04.2004 CO 4 Writing settings panel and read code of the other members of the group
15.04.2004 ME 2 Group meeting
15.04.2004 AD 1 Writing minutes of the meeting
15.04.2004 CO 2 Improvements in the settings panel
22.04.2004 GC 3 Reading mail to update knowledge about improvements in the last days and reading code.
23.04.2004 CO 2 Write example protocol events file to be used with the animator
24.04.2004 CO 2 Write example protocol events file to be used with the animator
25.04.2004 CO 4 Write example protocol events file to be used with the animator
27.04.2004 ME 2 Group Meeting
27.04.2004 CO 4 Coding new settings panel
28.04.2004 CO 7 Coding new settings panel
29.04.2004 ME 2 Group meeting
29.04.2004 CO 3 Coding new settings panel

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-- in Petrozavodsk
03.05.2004 CO 5 in Petrozavodsk: coding
03.05.2004 ME 1 in Petrozavodsk: group meeting
04.05.2004 CO 8 in Petrozavodsk: coding and runnig tests
05.05.2004 CO 9 in Petrozavodsk: coding
06.05.2004 CO 9 in Petrozavodsk: coding
06.05.2004 ME 1 in Petrozavodsk: group meeting
07.05.2004 CO 10 in Petrozavodsk: coding, testing
08.05.2004 CO 9 in Petrozavodsk: coding, testing
10.05.2004 CO 9 in Petrozavodsk: coding, testing
11.05.2004 CO 11 in Petrozavodsk: coding, testing
12.05.2004 CO 4 in Petrozavodsk: coding, final testing
12.05.2004 AD 1 in Petrozavodsk: presentation

-- in Helsinki
16.05.2004 DO 3 Writing javadocs
19.05.2004 ME 2 Group meeting
19.05.2004 AD 2 Making static mirror of twiki and forum

22.05.2004 DO 2 completed spanish localisation
23.05.2004 DO 2 Writting javadocs
23.05.2004 DO 2 Creating structure of user manual HTML
23.05.2004 DO 2 Writing user manual
24.05.2004 DO 2 Writing user manual
24.05.2004 DO 2 Writing user manual
24.05.2004 DE 3 Updating design document
25.05.2004 ME 2 Group Meeting
27.05.2004 AD 3 Presentation.
28.05.2004 TM 3 Creating infrastructure for the download page
29.05.2004 TM 6 Creating infrastructure for the download page
30.05.2004 TM 6 Creating infrastructure for the download page
31.05.2004 AD 4 Download page and documentation CD

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3.2.3 Jonathan Brown

Date	Task	Time	Description
-- 1st period			
21.01.2004	ME	4	first meeting
22.01.2004	TM	2	web page work
22.01.2004	ME	1	meeting with group2
23.01.2004	ME	2	internal meeting
23.01.2004	TM	1	template translation
24.01.2004	TM	2	web page g.i.
25.01.2004	ME	4	meeting at Wayne's

27.01.2004	ME	2	meeting with group2
27.01.2004	TM	2	web page g.i.
29.01.2004	PP	2	risk analysis
30.01.2004	ME	1	discussion
01.02.2004	ME	5	SU requirements elicitation
meeting group1			
03.02.2004	ME	2	TU manager meeting, 9, with Taina
03.02.2004	ME	3	TU meeting: with Kojo and without
05.02.2004	ME	6	TH meeting, scenarios, schedule
06.02.2004	PP	1	FR g.i.
06.02.2004	ME	2	FR meeting
09.02.2004	PP	1	TU orgz section, g.i.
09.02.2004	ME	2	TU last meeting with g2
-- 2nd period			
12.02.2004	ME	4	TH First internal specs meeting + planning
14.02.2004	PP	2	SA writing orgz section, g.i.
17.02.2004	ME	2	TU meeting with guys
17.02.2004	TM	1	TU progress report & other admin stuff
19.02.2004	ME	1	TH short meeting to sort out teamwork & status
19.02.2004	RE	3	TH /w Vesa & Jari doodling animations
21.02.2004	RE	3	SA Animation type meeting at Alexandria
-- 3rd period			
23.02.2004	RE	2	MO ReqDoc g.i.
24.02.2004	ME	2	TU Local meeting and review
24.02.2004	GC	1	TU Misc forum and mail communication
24.02.2004	GC	1	TU Misc forum and mail communication
02.03.2004	RE	2	TU various improvements, animation types text
02.03.2004	ME	2	TU meeting
04.03.2004	ME	2	TH morning meeting, design talk
04.03.2004	DE	4	TH design work with Jarkko and Jari
09.03.2004	RE	2	TU Preparing for review meeting

09.03.2004	ME	2	TU Req. doc review
10.03.2004	GC	1	WE Miscellaneous forum
correspondence			
11.03.2004	ME	2	TH Local meeting
11.03.2004	DE	5	TH Design meetings, Jarkko/UI
design			
-- 4th period			
14.03.2004	RE	2	SU Language improvement of reqdoc
16.03.2004	ME	2	TU Working UI meeting with Kojo & Jarkko
17.03.2004	GC	1	WE Miscellaneous correspondence
22.03.2004	GC	1	MO Miscellaneous correspondence
23.03.2004	ME	2	TU Meeting about design
25.03.2004	ME	2	TH Review Meeting and design talk
25.03.2004	DE	1	TH XML battles Jari Vesa
26.03.2004	GC	1	FR Miscellaneous correspondence
26.03.2004	DE	1	FR Swing/eclipse research
30.03.2004	ME	1	TU half of meeting (left early)
30.03.2004	GC	1	TU miscellaneous Forum and mail
01.04.2004	ME	2	TH morning meeting
01.04.2004	DE	3	TH design with Jarkko
02.04.2004	DE	3	FR morning design with Jarkko
06.04.2004	ME	2	TU Meeting
08.04.2004	ME	1	TH Meeting
08.04.2004	DE	3	TH Design w Jarkko
09.04.2004	CO	7	FR long friday coding session
11.04.2004	GC	1	SU general forum stuff and mail
12.04.2004	CO	7	MO monday coding Jarkko and Jonathan
13.04.2004	GC	1	TU general correspondence
14.04.2004	CO	2	WE general improvements
16.04.2004	GC	1	TU general correspondence
18.04.2004	GC	1	TU general correspondence
20.04.2004	ME	2	TU meeting
20.04.2004	CO	2	TU coding entreemodel
21.04.2004	CO	2	TU coding entreemodel
22.04.2004	CO	6	TH morning coding meeting
23.04.2004	CO	2	FR coding enc panel beginning
24.04.2004	CO	4	SA studying enc panel stuff
25.04.2004	CO	1	SU coding enc panel stuff
27.04.2004	ME	3	TU meeting, with Kojo demo
27.04.2004	CO	3	TU coding entreemodel
29.04.2004	ME	2	TH Meeting

29.04.2004	AD	1	TH preparing for trip
--Petrozavodsk			
03.05.2004	AD	5	MO CVS negotioations, preparations
03.05.2004	ME	1	MO Global meeting
04.05.2004	CO	8	TU Coding, testing
05.05.2004	CO	9	WE Coding, notemanager
06.05.2004	CO	9	TH Coding
06.05.2004	ME	1	TH Global meeting
07.05.2004	CO	10	FR Coding
08.05.2004	CO	9	SA Coding
-- Veterans day			
10.05.2004	DO	11	Localization / presentation
11.05.2004	DO	10	Localization / coding / presentation
12.05.2004	DO	5	Presentation
--Helsinki			
19.05.2004	ME	2	WE 9 meeting
19.05.2004	DO	4	Localization, manual planning
20.05.2004	GC	1	Random mailing, communicating
23.05.2004	GC	1	Mailing / communic
23.05.2004	DO	2	user manual
25.05.2004	DO	1	manual
25.05.2004	ME	2	meeting TUE 1600

3.2.4 Alejandro Fernández Rey

DATE	CLASS	HOURS	TASK
21.01.2004	ME	2	first meeting with the project, management stuff mainly.
22.01.2004	ME	1	first meeting with whole group, unofficial.
23.01.2004	ME	2	meeting of the Helsinki group, visit of supervisor, role decision and tool presentation.
23.01.2004	PP	2	meeting of the whole group, role decision and technical matters commented.
23.01.2004	AD	2	minutes of the meetings summary and transcription.
25.01.2004	ME	3	unofficial meeting of Helsinki group, first question list for the customer.
26.01.2004	DE	2	tcpdump manual reading and tests (tcpdump outputs examination).
27.01.2004	ME	2	meeting of the whole group.
27.01.2004	AD	3	minutes of the meeting summary and transcription, TWiki building.

28.01.2004 ME 2 group meeting, first time with customer.
29.01.2004 ME 1 group meeting, tool presentations, project plan matters and next meeting with customer preparation.
30.01.2004 ME 3 group meeting, tool presentations, questions to the customer, requirements gathering.
30.01.2004 AD 2 minutes of the meeting transcription.
01.02.2004 ME 6 unofficial meeting of Helsinki group, requirements document elaboration.
03.02.2004 PP 2 writing reporting/monitoring and resource requirement parts of project plan.
03.02.2004 ME 4 group meeting, third meeting with customer, requirements elicitation and project planning.
03.02.2004 AD 1 working hours document redaction.

04.02.2004 TM 1 TWiki system sections update.
04.02.2004 PP 2 monitoring and reporting parts of project plan continued.
05.02.2004 ME 2 group meeting
05.02.2004 RE 7 scenario list elaboration for requirements document
05.02.2004 AD 2 minutes of the meeting summary and transcription, TWiki building
06.02.2004 AD 2 project plan corrections
06.02.2004 ME 2 group meeting
06.02.2004 ME 2 scenario list task distribution
09.02.2004 RE 2 scenarios completion
10.02.2004 ME 2 group meeting
12.02.2004 ME 2 group meeting
17.02.2004 ME 2 group meeting
17.02.2004 RE 1 networking scenarios completion
19.02.2004 ME 1 group meeting
19.02.2004 RE 4 use cases and networking scenarios elaboration
23.02.2004 RE 3 use cases and networking scenarios elaboration
24.02.2004 ME 2 group meeting

01.03.2004 RE 3 use cases and scenarios review for requirements document
02.03.2004 ME 2 group meeting
02.03.2004 AD 2 minutes of the meeting transcription.
04.03.2004 ME 2 group meeting
08.03.2004 DE 3 initial design of data structures
09.03.2004 DE 1 initial design of data structures
10.03.2004 ME 2 group meeting; requirements document review

11.03.2004 ME 2 group meeting
11.03.2004 DE 1 design with group
12.03.2004 DE 2 data structures design

15.03.2004 RE 1 making changes to section 4 of requirements document
16.03.2004 RE 1 making changes to section 4 of requirements document completed
16.03.2004 ME 2 group meeting
18.03.2004 ME 2 group meeting for design

25.03.2004 ME 2 group meeting
28.03.2004 DE 3 design with group

30.03.2004 ME 2 group meeting
31.03.2004 DE 2 design and writing design document
01.04.2004 ME 2 group meeting
04.04.2004 DE 2 designing notes framework

06.04.2004 DE 2 writing design document introduction
06.04.2004 DE 2 design with group members
06.04.2004 ME 2 group meeting
06.04.2004 DE 2 continued writing design document introduction
07.04.2004 DE 2 continued writing design document introduction
08.04.2004 ME 2 group meeting
08.04.2004 DE 2 changes to design document
09.04.2004 CO 1 coded data structures
11.04.2004 CO 3 coded data structures, went through Java 1.4.2 specs

12.04.2004 CO 5 coded data structures

21.04.2004 LC 3 read forum and mails and code
22.04.2004 TE 3 designed PEF scenarios for testing
24.04.2004 TE 4 designed scenarios for testing, wrote them in XML format

27.04.2004 ME 3 group meeting
28.04.2004 TE 4 created structure and tests for test plan
29.04.2004 TE 4 writing test plan
30.04.2004 TE 2 writing test plan

03.05.2004 TE 5 in Petrozavodsk: writing test plan and running test cases
03.05.2004 ME 1 in Petrozavodsk: group meeting
04.05.2004 TE 8 in Petrozavodsk: writing test plan and running test cases
05.05.2004 TE 9 in Petrozavodsk: writing test plan and running test cases
06.05.2004 TE 9 in Petrozavodsk: writing test plan and running test cases
06.05.2004 ME 1 in Petrozavodsk: group meeting

07.05.2004 AD 2 in Petrozavodsk: writing minutes
07.05.2004 TE 8 in Petrozavodsk: running test cases, testing user interface
08.05.2004 AD 2 in Petrozavodsk: publishing documents and updating TWiki
08.05.2004 TE 4 in Petrozavodsk: running test cases, testing user interface
10.05.2004 ME 1 in Petrozavodsk: group meeting
10.05.2004 TE 10 in Petrozavodsk: running test cases, writing test execution doc
11.05.2004 TE 7 in Petrozavodsk: running test cases, writing test execution doc
12.05.2004 TE 3 in Petrozavodsk: testing, writing test execution doc

19.05.2004 ME 2 group meeting

22.05.2004 CO 2 completed spanish localisation
23.05.2004 TE 2 writing test execution document

24.05.2004 TE 5 writing test execution document
25.05.2004 TE 1 writing test execution document
25.05.2004 ME 1 group meeting
25.05.2004 AD 2 writing minutes
26.05.2004 TE 2 finished test execution document
26.05.2004 DO 4 writing conclusion document
26.05.2004 TE 3 running analyzer to prepare demo presentation
27.05.2004 TE 2 running analyzer to prepare demo presentation
27.05.2004 DO 2 writing conclusion document
27.05.2004 GC 1 demo presentation
28.05.2004 DO 1 writing conclusion document
28.05.2004 GC 2 demo presentation to customer
28.05.2004 DO 6 writing conclusion document
30.05.2004 DO 2 writing conclusion document

31.05.2004 TM 4 final fixes to prepare cd for supervisors

3.2.5 Jarkko Laine

Date	Task	Time	Description
21.01.2004	ME	2	First project meeting
21.01.2004	LC	2	Informal meeting with the project group
21.01.2004	PP	1	Doing research on LaTeX
22.02.2004	PP	2	LaTeX research continued
22.02.2004	GC	1	First informal meeting with group 2
23.01.2004	ME	2	Second project meeting with the Helsinki group
23.01.2004	ME	2	First formal meeting with the Petrozavodsk group
23.01.2004	PP	1	LaTeX research continued
24.01.2004	AD	2	Updating the document templates
25.01.2004	PP	2	Preparing questions for the client
27.01.2004	TM	3	Installing TWiki
27.01.2004	ME	2	Formal meeting with the Petrozavodsk group
27.01.2004	TM	3	Setting up TWiki
28.01.2004	ME	2	First meeting with the client
29.01.2004	ME	1	Meeting with the Petrozavodsk group
29.01.2004	TM	3	Setting up TWiki, writing minutes etc.
30.01.2004	ME	2	Meeting with the customer
30.01.2004	LC	1	Discussing the meeting with the group.
01.02.2004	ME	6	Discussing product requirements
03.02.2004	ME	2	Meeting with the customer
03.02.2004	ME	2	Meeting continued without the customer
04.02.2004	PP	1	Writing the requirements document
04.02.2004	TM	3	Setting up the forum with Carlos
05.02.2004	ME	2	Meeting
05.02.2004	TM	1	Processing group images
05.02.2004	PP	1	Writing project plan
06.02.2004	ME	2	Meeting
09.02.2004	PP	1	Writing the project plan
09.02.2004	ME	6	Sauna evening
10.02.2004	ME	2	Meeting w/ client

-- Second period

12.02.2004	ME	3	Meeting
12.02.2004	PP	2	Reading and reviewing project plan
13.02.2004	AD	1	Writing meeting minutes
13.02.2004	GC	1	Writing comments about the project plan

17.02.2004	PP	2	Writing and reviewing the project plan
17.02.2004	ME	2	Meeting
17.02.2004	PP	2	Finishing project plan
19.02.2004	ME	2	Meeting
22.02.2004	LC	4	Working (use cases,scenarios) with Carlos

-- Third period

23.02.2004	LC	4	Use cases with Carlos and Alex
24.02.2004	AD	1	Writing minutes
24.02.2004	AD	2	Organizing the requirements specs doc
24.02.2004	ME	2	Meeting
25.02.2004	DE	2	Working with requirements
27.02.2004	ME	2	Meeting
29.02.2004	DE	1	Requirements
01.03.2004	DE	1	Requirements
02.03.2004	DE	3	Finishing requirements document
02.03.2004	ME	2	Meeting
02.03.2004	AD	1	Publishing the requirements document
04.03.2004	ME	2	Meeting
09.03.2004	AD	2	Preparing for the review
09.03.2004	ME	2	Project review
11.03.2004	ME	2	Meeting
11.03.2004	DE	5	Design meeting with Jonathan (UI)

-- Fourth period

16.03.2004	RE	1	Making changes to the reqdoc
16.03.2004	ME	2	Meeting
18.03.2004	ME	2	Meeting
23.03.2004	ME	2	Meeting
25.03.2004	ME	2	Meeting
30.03.2004	ME	2	Meeting
31.03.2004	DE	3	Designing the UI class hierarchy
01.04.2004	ME	2	Meeting
01.04.2004	DE	3	UI design w/ Jonathan
02.04.2004	DE	2	UI design w/ Jonathan
06.04.2004	DE	2	UI design
06.04.2004	ME	2	Meeting
06.04.2004	AD	1	Writing minutes
09.04.2004	CO	7	Long friday coding session
12.04.2004	CO	7	Monday coding Jarkko and Jonathan
13.04.2004	ME	2	Meeting
13.04.2004	AD	1	Adding minutes and uploading analyzer design

doc

15.04.2004	ME	2	Meeting
15.04.2004	AD	1	Fixing and publishing the design document
15.04.2004	CO	6	Coding UFO panel and MainFrame
17.04.2004	CO	2	Coding...
20.04.2004	ME	2	Meeting
20.04.2004	CO	2	Coding MainFrame
21.04.2004	CO	7	Coding MainFrame
22.04.2004	ME	2	Meeting
22.04.2004	CO	3	Coding MainFrame and UFO panel
24.04.2004	CO	4	pure coding...
27.04.2004	ME	3	group meeting
28.04.2004	CO	4	coding
30.04.2004	CO	2	coding
03.05.2004	CO	5	in Petrozavodsk: coding
03.05.2004	ME	1	in Petrozavodsk: group meeting
04.05.2004	CO	8	in Petrozavodsk: coding and running tests
05.05.2004	CO	9	in Petrozavodsk: coding
06.05.2004	CO	9	in Petrozavodsk: coding
06.05.2004	ME	1	in Petrozavodsk: group meeting
07.05.2004	CO	10	in Petrozavodsk: coding, testing
08.05.2004	CO	9	in Petrozavodsk: coding, testing
10.05.2004	CO	9	in Petrozavodsk: coding, testing
11.05.2004	CO	11	in Petrozavodsk: coding, testing
12.05.2004	CO	4	in Petrozavodsk: coding, final testing
12.05.2004	AD	1	in Petrozavodsk: presentation
19.05.2004	ME	2	group meeting
23.05.2004	AD	3	working on the DaCoPAN photo album
23.05.2004	AD	2	preparing windows installer for the animator
25.05.2004	ME	1	group meeting
27.05.2004	ME	1	DaCoPAN presentation
27.05.2004	CO	1	fixing last minute bugs
27.05.2004	DO	2	publishing documentation and writing user manual

3.2.6 Vesa Vainio

DATE CLASS HOURS TASK

21.01.2004 ME 4 Initial meeting (formal+informal)
21.01.2004 AD 2 Planning dinner
22.01.2004 ME 5 Initial meeting with Petro group + dinner
23.01.2004 ME 2 First formal meeting with Petro group
26.01.2004 AD 4 Initially preparing the 'Educational
Guidelines' memo
27.01.2004 ME 2 Meeting (both groups)
28.01.2004 ME 2 First meeting with Customer
29.01.2004 AD 0 Sick leave
30.01.2004 AD 0 Sick leave
31.01.2004 AD 5 Reading different memos, finalizing
'Educational Guidelines' and preparing memo on 'Layered Event
Timeline'
03.02.2004 ME 4 Meeting with Customer
04.02.2004 AD 3 Transcribing minutes from yesterday meeting
05.02.2004 ME 2 Global meeting, misc issues
05.02.2004 RE 3 Preparing List of Scenarios with other guys
06.02.2004 ME 2 Meeting with Customer
06.02.2004 AD 1 Planning for sauna
09.02.2004 AD 4 Planning and preparing for sauna
09.02.2004 ME 6 Sauna evening
10.02.2004 RE 2 Writing description of networking scenario
format
10.02.2004 ME 3 Meeting with Customer
10.02.2004 GC 1 Suggestion on TCP state model

-- 2nd period

12.02.2004 ME 2 Local meeting
12.02.2004 LC 2 Discussion about size estimate
16.02.2004 RE 2 Description of components used in size
estimate
17.02.2004 ME 2 Local meeting
17.02.2004 GC 1 Writing mail
19.02.2004 RE 5 Brainstorming and processing about MSC
requirements
21.02.2004 RE 3 Meeting about animation types
22.02.2004 GC 1 Misc forum and mail communication
22.02.2004 RE 2 Created msc-diagram.eps

-- 3rd period

24.02.2004 RE 2 Editing Requirements Spec
24.02.2004 ME 2 Local meeting
26.02.2004 GC 2 Misc communication

27.02.2004 RE 4 Editing requirements
27.02.2004 ME 2 Local meeting
27.02.2004 AD 1 Transcribing minutes
29.02.2004 GC 2 Misc communication
01.03.2004 GC 1 Misc communication
01.03.2004 RE 4 Editing req spec
02.03.2004 RE 2 Editing req spec
02.03.2004 ME 3 Local meeting
03.03.2004 GC 1 Mail about net scen priorities
04.03.2004 ME 2 Local meeting
04.03.2004 DE 3 Coding first version of MSC proto
07.03.2004 GC 1 Forum discussion
09.03.2004 ME 2 ReqSpec review meeting
09.03.2004 RE 3 Reviewing the ReqSpec
10.03.2004 DE 2 Draft of Control Signals Framework
11.03.2004 ME 4 Design meeting
16.03.2004 LC 1 Misc communication
18.03.2004 ME 4 Design meeting
22.03.2004 DE 1 Design for animation sequence
22.03.2004 DE 3 Reading, analysis and discussion of Jarkko's
proposal
23.03.2004 ME 3 Design meeting
24.03.2004 AD 1 Meeting minutes
24.03.2004 DE 2 Animator architecture description & diagram
29.03.2004 GC 1 Forum reading & commenting
30.03.2004 ME 2 Design meeting
01.04.2004 ME 2 Design meeting
03.04.2004 GC 1 Mail and forum communications
05.04.2004 LC 1 Local mails
05.04.2004 DE 2 Design details for control signals framework
06.04.2004 DE 1 Animation sequence design
06.04.2004 ME 5 Design meeting (formal+informal)
07.04.2004 DE 2 Designing animation sequence recording and
writing MSC stuff
08.04.2004 ME 4 Meeting
10.04.2004 CO 2 Coding
11.04.2004 CO 1 Coding
11.04.2004 GC 1 Forum and mails
13.04.2004 ME 2 Meeting
14.04.2004 LC 1 Mails
15.04.2004 ME 2 Meeting
16.04.2004 CO 2 Coding (thinking about MSCPanel)
17.04.2004 CO 4 Coding (MSCHeaderPanel and some stuff for
MSCPanel)
18.04.2004 CO 4 Coding (paintColumns for MSCPanel)

20.04.2004 ME 2 Meeting
20.04.2004 AD 1 Meeting minutes
21.04.2004 GC 1 Communication
22.04.2004 ME 4 Meeting
23.04.2004 CO 2 Coding
26.04.2004 CO 2 Coding
27.04.2004 CO 2 Coding
27.04.2004 ME 2 Meeting
28.04.2004 CO 2 Coding
29.04.2004 ME 2 Meeting
29.04.2004 CO 2 Coding
03.05.2004 ME 1 Meeting
03.05.2004 CO 7 Coding
04.05.2004 CO 8 Coding
05.05.2004 CO 8 Coding
06.05.2004 CO 7 Coding
06.05.2004 ME 1 Meeting
07.05.2004 CO 8 Coding
08.05.2004 CO 5 Coding
10.05.2004 CO 7 Coding
10.05.2004 ME 1 Meeting
11.05.2004 CO 8 Coding
12.05.2004 CO 5 Coding
16.05.2004 TM 2 Setting up the environment again
17.05.2004 CO 2 More work with environment and looking at
code...
18.05.2004 CO 6 Fixing MSCColumnModel and starting with
optimization
19.05.2004 ME 4 Meeting
19.05.2004 CO 6 Finishing optimization, moving now line with
mouse
20.05.2004 CO 4 Bugfixes and finetuning for MSC
20.05.2004 DO 1 Writing some javadocs for animseq
21.05.2004 CO 4 Some bugfixing & optimization
22.05.2004 CO 5 Localisation and related bugfixing & tuning
22.05.2004 DO 2 Updating design document
23.05.2004 DO 3 Updating design document
23.05.2004 CO 1 Small bugfixing
24.05.2004 CO 8 Debugging, mostly scenario functionality
25.05.2004 ME 2 Meeting
25.05.2004 CO 2 Some debugging and fine-tuning
25.05.2004 DO 4 Writing user manual (scenario section)
26.05.2004 DO 3 Finalising different documents
26.05.2004 CO 1 Fixing scenarios & one MSC bug
27.05.2004 ME 2 The demo

28.05.2004 TE 1 Checking recent fixes
28.05.2004 ME 2 The demo for Mr. Kojo
28.05.2004 CO 1 Fixing the remaining bug in MSC