

WP8 : GANMVL Report

4th EUROTeV Annual Meeting
DESY, Hamburg
January 30th 2009

Milestones and Deliverables
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on behalf of the GANMVL collaboration

GANMVL scope

From Annex 1 – EUROTev 011899 :

4.3.7.1 Objectives:

The most likely scenario of a linear collider is that it will be built by a collaboration of existing laboratories, which will remain involved during the operation of the accelerator. Advanced means of communication will be necessary to support efficient collaboration. GANMVL is a project which will design and build a novel collaboration tool and test it on existing accelerator collaborations. The tool is a mobile communication centre which provides immersive video and audio capture and reproduction of an accelerator control room, a laboratory workplace environment or an accelerator hardware installation. It is able to connect to standard measurement equipment (oscilloscopes, network analyzers etc.) and to elements of accelerator controls and make these connections available to a remote client. The remote user should be able to participate in accelerator studies, assembly of accelerator components, trouble shooting of hardware or analysis of on-line data as if he or she would be present on site. The GANMVL project will provide valuable experience of a new way in designing, building and operating large accelerator complexes, and will address the important psychological and sociological issues of the Global Accelerator Network. Specifically, the objectives of the Work Package can be summarised as follows:

- Evaluation of human needs to support the concept of remote operation.
- Produce a 'collaboration tool' (Multipurpose-Virtual-Laboratory, MVL) as test bed for in-field evaluation of remote operation.

Milestones and Deliverables

from Annual Report 2008

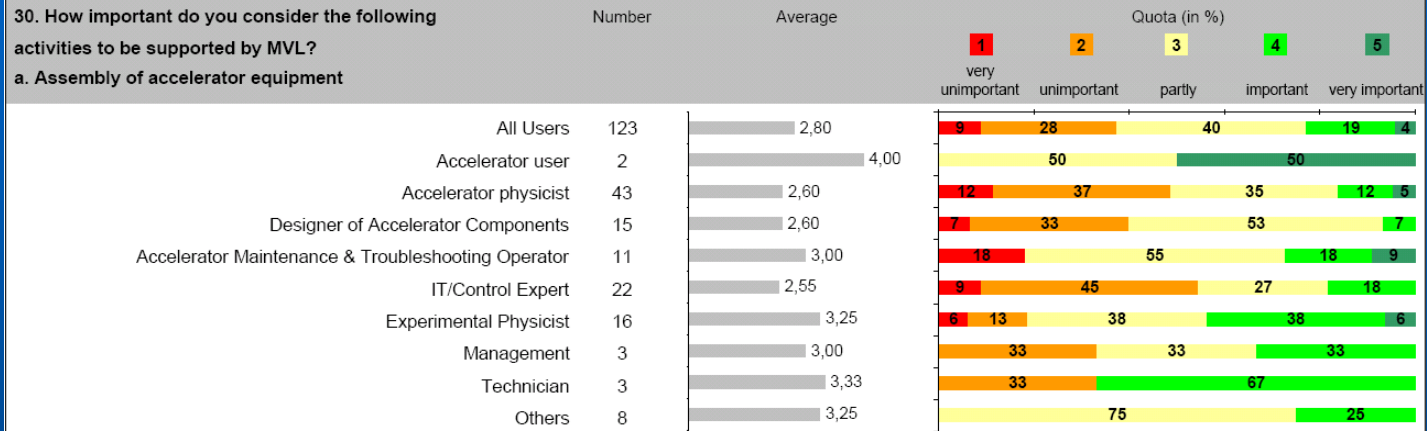
Milestone N°	Milestone Name	Work package	Lead Contractor(s)	Planned (in months)	Achieved (in months)
1	Detailed scope and planning report to first Workshop	8	1	6	6
2	Evaluation of human requirements available	8	19, 20	9	16
3	Design of MVL system complete	8	1	9	30
4	First prototype MVL constructed and initial evaluation complete	8	1, 6, 7, 8, 9	18	21
5	Presentation of results and detailed implementation at Second Workshop	8	All	18	25
6	Second prototype MVL constructed and initial evaluation complete	8	1, 6, 7, 8, 9	27	27
7	Presentation of phase 2 results to Third Workshop; plans for GDI-TDR input and further R&D (phase 3 and beyond)	8	All	30	30
8	Results of prototype field-trials available	8	6	48	48
Deliverable No	Deliverable Name	WP	Lead Contractor	Planned (in months)	Achieved (in months)
1	Report on evaluation of human requirements	8	19, 20	9	6
2	First phase MVL prototype	8	1, 6, 7, 8, 9	18	21
3	Second phase MVL prototype	8	1, 6, 7, 8, 9	27	27

D1 : User Survey

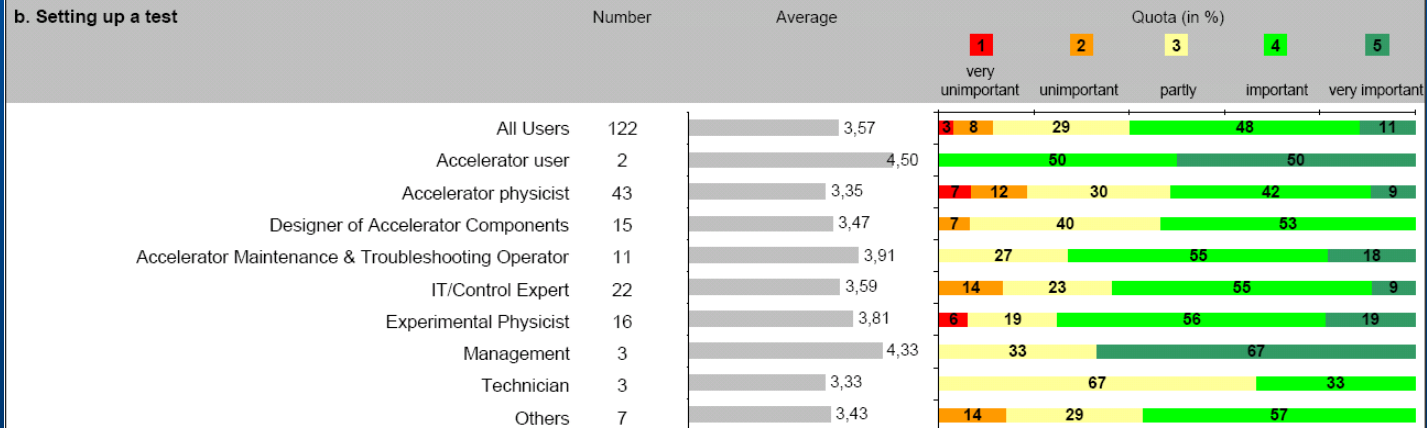
Activities to be supported by MVL (Continuation)

30. How important do you consider the following activities to be supported by MVL?

a. Assembly of accelerator equipment



b. Setting up a test



M3 : GANMVL design features

		High Resolution Video Conference Cameras	3-D high resolution Video & Cameras	Multiple Screens	Large Display	Audio Support	Lighting	Stands	Virtual Instruments	Control System Interface	Wireless Access Point
Stationary Setup	remotely assisted Accelerator Experiment	x	x	x	x	x		x			x
	Remotely assisted Accelerator Commissioning	x	x	x	x	x		x			x
Semi-mobile Setup	Remotely assisted Test preparation	x	x	x		x	x	x	x	x	x
	Remotely assisted Assembly	x	x	x		x	x	x	x	x	x
Mobile Setup	Remotely Assisted Maintenance	x	x			x	x		x	x	
	Remotely Assisted Repair	x	x			x	x		x	x	
	Remotely assisted Trouble Shooting	x	x			x	x		x	x	
	...										

Proto typ
June 06

D2 & 3 : MVL Prototypes

GANMVL integration workshop, August 2006
Test of first prototype

Web Portal of GANMVL V2.2

Summary

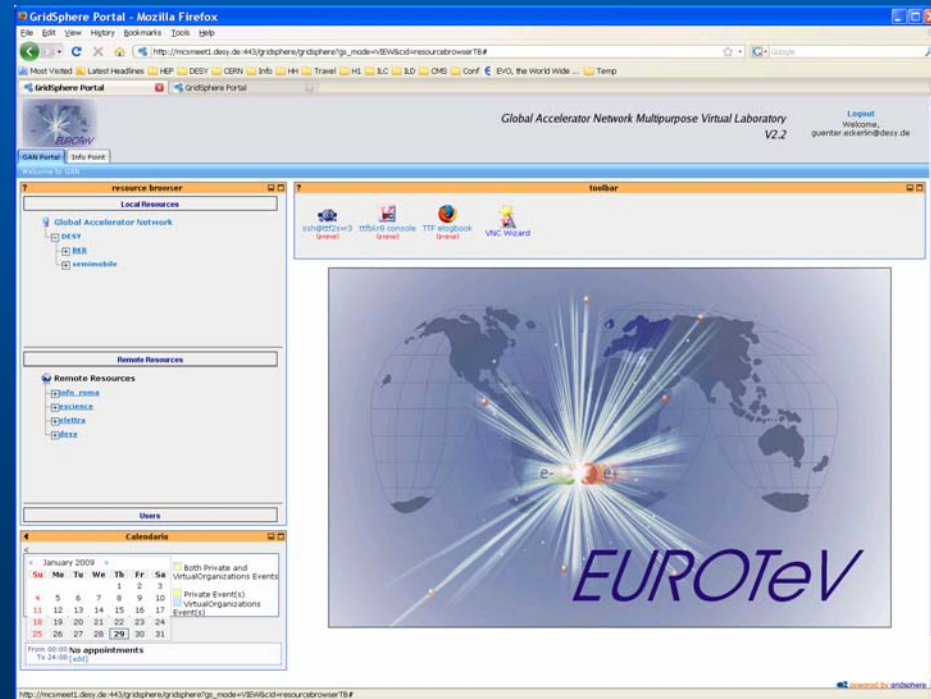
- The workshop brought together ~ 20 GANMVL developers from ELettra, Milano, GSI, IGD, DESY Zeuthen and DESY Hamburg.
- The major goals of the workshop were achieved. The lab server and local station components for the GANMVL prototype were installed and successfully operated. Remote client users were able to test the provided functionality. A test with a control room pc in the HERA control room from a remote user at LBL completed successful.

The workshop was a big success.

23.8.2006

GANMVL - Integration Workshop

14/14



M8 : Usability Reports

EUROTeV-Report-2008-077



Usability Review Report of GANMVL version 2.2

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January 21, 2009

Abstract

EUROTeV Report 2007-005
EUROTeV Report 2008-077

3.2.1 General Aspects

To collect feedback about how the users perceived the GANMVL in general, we asked users to rate the aspects listed in Figure 2 on a 5-point Likert scale [1] ranging from "Very Bad" to "Very Good".

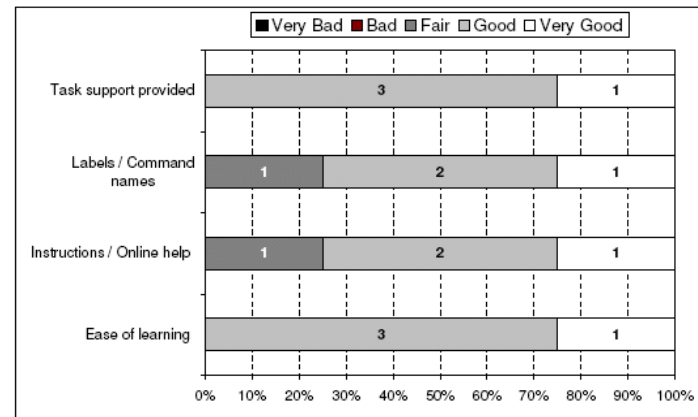


Figure 2 – Users' ratings about general aspects of the GANMVL

Summary

- **All Milestones (8) ✓**
- **All Deliverables (3) ✓**
- **GANMVL Version 2.2 in use at ELETTRA since 2007**

Thank you to all collaborators

