

contract no. : 031891

WP5

Dissemination, standardization and cooperation with other projects



REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS

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<http://www.ringrid.eu/>

RINGGrid REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS

### Objectives

- Raising project awareness among user communities
- Increasing involvement of user communities in common European research
- Close cooperation with initiatives and projects from the field of Remote Instrumentation
- Taking part in standardization bodies
  - setting up a OGF group devoted to remote instrumentation
- Specific dissemination objectives:
  - setting up and maintaining a portal for project-related activities
  - the preparation and distribution of information material
  - preparation of seminars
  - taking part in conferences

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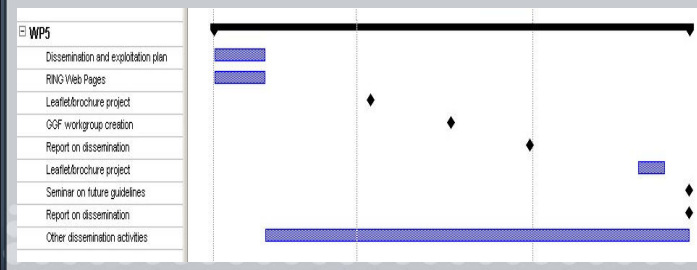
### Deliverables

• D5.1	Dissemination and exploitation plan	M2
• D5.2	RINGGrid Web Pages finished	M2
• D5.3	Project leaflet/brochure	M6
• D5.4	OGF workgroup creation	M9
• D5.5	Report on dissemination	M12
• D5.6	Project leaflet/brochure	M16
• D5.7	Seminar presenting future guidelines	M18
• D5.8	Report on dissemination	M18

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### Workplan

- Whole project duration
- Growing intensification



Task	Start (Month)	End (Month)
Dissemination and exploitation plan	2	2
RING Web Pages	2	2
Leaflet/brochure project	6	6
OGF workgroup creation	9	9
Report on dissemination	12	12
Leaflet/brochure project	16	16
Seminar on future guidelines	18	18
Report on dissemination	18	18
Other dissemination activities	2	18

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### Web page

- [www.ringrid.eu](http://www.ringrid.eu)
- Document storage and management: DokuWiki
- Public and internal sections
- Information about recent project news
- More than 2600 visitors since 10/2006

The screenshot shows the RINGrid website interface. It features a top navigation bar with the RINGrid logo and the project title. Below this, there's a main content area with a sidebar on the left containing a 'Latest Events' section and a 'Main Menu' section. The main content area includes a 'Project overview' section with a world map and a 'Technical Committee' and 'Executive Board' section at the bottom.

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### Discussion lists

- [ringrid@lists.man.poznan.pl](mailto:ringrid@lists.man.poznan.pl) - RINGrid project discussion list
- [ringrid-eb@lists.man.poznan.pl](mailto:ringrid-eb@lists.man.poznan.pl) Executive Board
- [ringrid-tb@lists.man.poznan.pl](mailto:ringrid-tb@lists.man.poznan.pl) Technical Board
- [ringrid-wp2@lists.man.poznan.pl](mailto:ringrid-wp2@lists.man.poznan.pl) Workpackage 2
- [ringrid-wp3@lists.man.poznan.pl](mailto:ringrid-wp3@lists.man.poznan.pl) Workpackage 3
- [ringrid-wp4@lists.man.poznan.pl](mailto:ringrid-wp4@lists.man.poznan.pl) Workpackage 4
- [ringrid-wp5@lists.man.poznan.pl](mailto:ringrid-wp5@lists.man.poznan.pl) Workpackage 5
- [ringrid-wp6@lists.man.poznan.pl](mailto:ringrid-wp6@lists.man.poznan.pl) Workpackage 6

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### Teleconferences

The screenshot shows the VRVS website interface. It features a top navigation bar with the RINGrid logo and the project title. Below this, there's a main content area with a sidebar on the left containing a 'Work better with cross-platform, vld' section. The main content area includes a 'QUICK TOUR' section, a 'EVENTS' section with a calendar, and a 'TECHNICAL NEWS' section.

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### Folder, leaflets, logo

The screenshot shows a folder containing various RINGrid promotional materials. It includes a large RINGrid logo, a leaflet titled 'RINGrid REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS', and a smaller leaflet titled 'RINGrid REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS' with a world map. There are also several smaller logos and icons.

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### Presentation and document/report templates

Document filename:	document_template
Work package:	Name
Partner(s):	Names
Lead Partner:	Name
Document classification:	Public

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### RINGrid meetings

- Kickoff meeting in Poznań – October 12-13, 2006
- Meeting in Santa Margherita – April 18-19, 2007

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### Wikipedia – RINGrid page

- General info about the project
- Links to external sources: RINGrid web site, related projects

**Overview**  
 RINGrid is a project funded by the European Commission's Sixth Framework Programme under the contract number 031091. RINGrid is an acronym that stands for 'Remote Instrumentation in Next-generation Grids'. It provides an architecture which integrates instrumentation with infrastructure. It encompasses the current state of art and new future technology, defines conceptual design of existing architecture (hardware) and is supported by Grid environment.

**Objectives**  
 Strategic objectives addressed:  
 • Identification of instruments and user communities, definition of requirements,  
 • Strongly between Remote Instrumentation and next-generation high-speed, communication networks and grid infrastructures,  
 • Trend analysis and recommendations for designing next-generation Remote Instrumentation Services,  
 • Promoting equipment access to European infrastructures,  
 • Dissemination of project results to scientific and business groups of equipment owners and users.

**Technology approach**  
 Usage of both Grid computing and supercomputing technologies as support for performing laboratory experiments gives measurable effects in improving the quality of research. Computations performed on (depending on the experimental) value and application level local or Grid resources are essential to process and visualize experimental results. The RINGrid project will collect requirements and produce recommendations for using computing techniques in scientific experiments. The project research also addresses the issues of resource utilization and general definition of heterogeneous Grid resources.

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### Poster

- Presented during IST Event 2006, November 21-23, 2006, Helsinki

Will be presented at:

- OGF20/EGEE User Forum on the booth, Manchester, UK, May 7-11, 2007
- IMEKO, Iasi, Romania, September 19 - 21, 2007
- PPAM2007, Gdańsk, Poland, September 9-12, 2007
- ...

**Poster Content:**  
 RINGrid REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS  
 Remote Instrumentation and user communities definition of digital services  
 RINGrid Network includes instrumentation and integration with current communication networks and grid infrastructures  
 Future trends and recommendations for building services of the next generation digital communication  
 Promoting equipment access to European infrastructures  
 Dissemination of project results to scientific and business groups of users  
 HTTP://WWW.RINGRID.EU/  
 CONTACT: T. B. SUDAN

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### New leaflet

- Additional one
- Four A4 pages
- More detailed
- Presentation of all WPs objectives and major activities
- Currently under construction

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### Conferences

- Supercomputing 2006, November 11-17, 2006, Tampa Bay, USA
- 2nd International Conference on e-Science and Grid Computing
- BELIEF eInfrastructures, December 14 – 15, 2006, Grand New Delhi Hotel, New Delhi, India
- Día Virtual CUDI de Laboratorios Compartidos
- IST Event 2006, November 21-23, 2006, Helsinki
- Grid Computing Core Technologies,
- 25th BESSY Users` Meeting, December 6-7, 2006, Berlin, Germany
- 4th TERENA NRENs and Grids Workshop, December 6-7 2006, Amsterdam, The Netherlands
- 2nd International Workshop on Distributed Cooperative Laboratories - INGRID 2007, April 16-18, 2007, Snata Margherita, Italy
- MINOS FP7 Brokerage Event in Bucharest, March 22 – 23, 2007
- ICTP-ELETTRA-INAF/OATS, Advanced Training Workshop on Instruments and Sensors on the Grid
- EGEE User Forum, May 9-11, 2007, Manchester, UK (near future)

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### Round tables

- In conjunction with: EPE 2006 - 4-th International Conference on Electrical and Power Engineering, Iasi, Romania and in connection with: Ceex M1 Speedvirt: Informatic System Of Interactive Training Based On High-Speed Multitask Algorithms Developed On The Reconfigurable Online Platform For Virtual Laboratory Type Applications (responsible and contact person Codrin Donciu, [cdonciu@ee.tulasi.ro](mailto:cdonciu@ee.tulasi.ro)), October 16, 2006
- In connection with: Ceex M2 Virtex: Virtual And Distributed Systems In Support Of Quality And Maintenance Management (responsible and contact person Cristina Schreiner, [cschrein@ee.tulasi.ro](mailto:cschrein@ee.tulasi.ro)), November 1, 2006
- In connection with: Ceex M3 E-Mange: The Development Of Romanian Integration Capacity In Programs, Platforms And European Networks, In Domain Of Virtual And Distributed Systems Of Design And Research Managment (responsible and contact person Cristina Schreiner), December 15, 2006

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### INGRID 2007 - conference

- Co-organized by the RINGrid project
- Devoted to Remote Instrumentation
- 3 keynote speakers:
  - Maria Ramalho-Natario, Information Society and Media DG, EC
  - Tatsuya Suda, University of California at Irvine, USA
  - Geoffrey Fox, Indiana University, USA
- More than 40 papers

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## INGRID 2007 - demo

- RINGrid booth
- Demonstration of VLab - one of the system which will be used on verification stage (WP6)
- Wide dissemination of project: leaflets, presentations



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## INGRID 2007

- Mentioned in IIC, Belief, EGEE
- Papers printed in Springer LNCS
- 4 articles from RINGrid



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## OGF20/EGEE User Forum

- 2 papers
  - 1) "Approach to the remote instrumentation idea in the RINGrid project" in Interactivity work and Portals session - given by Constantinos Kotsokalis.
  - 2) "PSNC Virtual Laboratory system as implementation of remote instrumentation idea" in Experience with Application Domains session - given by Marcin Lawenda.
- Booth - shared (co-organized) with other projects: int.eu.grid, gEclipse and GridCC
- Creation of new OGF research group

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## Forthcoming events

- OGF20/EGEE User Forum, May 9-11, Manchester, UK
- The International Supercomputing Conference, ISC 07, Germany
- Modern Management of Mine Producing, Geology And Environmental Protection, S G E M 2007, June 11-15, 2007, Albena, Bulgaria
- 15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation, September 19 - 21, 2007, Iasi, Romania
- Seventh International Conference on Parallel Processing and Applied Mathematics - PPAM 2007, Poland
- Supercomputing 2007, November 10-16, 2007, Reno, USA
- End users conferences and workshops

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### OGF research group

- OGF research group - BoF at OGF-20 in Manchester, May 9th, 2007  
Working title:  
*Remote Instrumentation Services in Grid Environment (RISGE)*

Cooperation with projects:

- GridCC
- int.eu.grid
- Edutain@Grid
- g-Eclipse
- DEGREE
- BalticGrid
- VLab

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### OGF research group

Objectives:

- State of the art in grid and network infrastructure in areas connected with laboratory equipment sharing
- Working out of standards allowing use lab devices remotely
- Integrating research: interactivity, visualisation in a workflow of remote instrumentation
- Interactivity in Grids
- Visualisation Frameworks
- Overview of existing solutions and best practices for interactive service oriented infrastructures

Specific objectives:

- Indicating future directions of Interactive Service Oriented architectures
- Indicating future directions of grid and network functionality development to facilitate access to research infrastructure
- Research on new common architecture for remote instrumentation
- Actively engage the community of virtual laboratory developers in this activity
- Facilitate access to the laboratory equipment via Internet
- Act as a liaison to the grid community and equipment final users in general
- Develop requirements and use cases in the area of the Remote Instrumentation
- Identify how the grid is being challenged by the science disciplines related to shared devices
- Analysis of solutions which enable egalitarian access to research infrastructure by scientific community

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### Dissemination in other WPs

- WP2 – Providing information about the RINGrid project to end users in order to get feedback - done
  - 37 Professors, 17 Researchers and 6 Students
  - Argentina, Brazil, Bulgaria, Canada, Chile, Mexico, Poland, Romania
  - Computer Sciences, Earth and Environment Sciences, Engineering, Material Science, Biomedical Science, Astronomy and Astrophysics

- WP3
- WP4
- WP6

 } Keeping end users informed about project results

- According to project progress and getting more results from WPs contact with end users will be intensified

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### Cooperation with other projects

- Establishing OGF research group
- Organization of conferences and sessions e.g. INGRID 2007, IMEKO, PPAM 2007
- Co-organization of demos/booths e.g. EGEE User Forum in Manchester
- Using knowledge and experience coming from mentioned projects e.g. in WP3 and WP4

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## Dissemination in the media

- Supercomputing 2006 – information on web page of Polish Ministry of Science
- INGRID 2007 – IIC, Belief, EGEE
- Coverage by TV Biznes

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## Summary

- Co-organization of the INGRID 2007 conference
- 14 papers and presentations until now
- 2 demos – INGRID2007, EGEE User Forum
- 2 different leaflets, 1 folder, 1 poster
- Project web page – continuously updated
- First contact with end users during realisation of WP2
- Conferences and workshops from IT area and oriented towards selected science domains
- Taking part in seminars and meetings with scientists from the selected science disciplines
- Distribution of leaflets and folders during conferences, meetings