Enabling Desktop Grids for e-Science
and the role of standards

4th e-Infrastructure Concertation Event

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Consortium members

- Computer and Automation Research Institute of the Hungarian Academy of Sciences - MTA SZTAKI (coordinator)
- Centro de Investigaciones Energéticas Medio Ambientales y Tecnológicas - CIEMAT
- Foundation for the Development of Science and Technology in Extremadura - Fundecyt
- The French National Institute for Research in Computer Science and Control - INRIA
- University of Westminster
- Cardiff University
- Faculty of Sciences and Technology of the University of Coimbra
- Stichting AlmereGrid
- Centre National de la Recherche Scientifique - CNRS/IN2P3

Project objectives

The main objective of EDGeS is to support new communities:

- by providing the necessary extensions for existing Grid infrastructures to address the specific needs in these new scientific communities regardless of the location of their research facilities
- with the adaptation of their applications to the enhanced Grid infrastructure
- through the provision of standard APIs and Grid application development tools that facilitate the adaptation of their application to the enhanced Grid infrastructure.
- to extend the potential user communities for both Grids and Desktop Grids beyond traditional scientists and current volunteer computing participants to further involve ordinary citizens, secondary school students, and company employees, giving them an opportunity to become involved in science and to apply Grid technology in their every day life.

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Work plan outline

NA1	Project administrative and technical management
NA2	Knowledge Services (dissemination, training and consulting)
NA3	Standardization procedures
SA1	Combined EGEE-DG Service Management
SA2	Support infrastructure Service Management
SA3	Application Support Service
JRA1	SG-DG Bridges Technologies
JRA2	SG-DG Support Technologies
JRA3	SG-DG Data Access

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Standards related work

- NA3: Standardization procedures of integrating SG and DG systems
- Contribute to several Grid and P2P standards bodies
  - Open Grid Forum (OGF) - GIN
  - Standard organisations (OASIS, W3C, ETSI)
- Standards
  - DRMAA (Distributed Resource Management Application API)
  - SAGA API
  - Job Submission Description Language (JSDL)

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