Work Package 11

Dissemination and Exploitation

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Outline

- Objectives

- Achievements

- Lessons learned

- Future & Exploitation

- Questions

Tasks for the third year

- **Task 11.2 - maintenance of the dissemination e-environment:**
  - Maintenance of the "DataGrid" dissemination portal;
  - Design, development and maintenance of the "European Grid Industry and Research Forum" website;
  - Deployment and management of the "Dissemination testbed" (GriDis).

- **Task 11.3 - local dissemination:**
  - Live demonstrations and participation to relevant events.

- **Task 11.4 - support of the open software adoption and contribution to international standards:**
  - Software and documentation download site.
  - Report about contributions to international standards (deliverable 11.9).

- **Task 11.5 - industrial deployment:**
  - Improve the I&R Forum initiative, increasing the number of subscribers;
  - Organize dissemination events targeted to Industry;
  - Establish a network of DataGrid Point of Contacts.

Maintenance of the dissemination e-environment

Maintenance of the dissemination web portal

◆ Work Package 11 staff has continued to search, collect and publish papers, news, promotional material and multimedia contents on the dissemination portal.

◆ At the end of 2003 the dissemination web portal contained:

- 187 events in the calendar;

- 63 technical papers;

- 42 slide presentations;

- 44 news;

- 85 press articles;

- 15 FAQs;

- 40 links to related projects.

Dissemination web portal visits

- Some numbers for the year 2003:
  - 802410 page views (single page requests);
  - 74174 visits (a "visit" is a sequence of page requests from the same IP address, sent within a short period of time).

- Visitors were mainly based in the following countries:
  - United States
  - Italy
  - UK
  - Europe
  - Switzerland
  - Germany
  - France
  - Spain
  - China

European Grid Industry and Research Forum

- The "European Grid Industry and Research Forum" resulted from the merger of the "DataGrid Industry and Research Forum" with the related initiative by CrossGrid.

- Work Package 11 has designed, developed and maintained the new "European Grid Industry and Research forum" website, which includes an online subscription form.

[Snapshots of the European Grid Industry and research forum website]

Dissemination testbed

- A dissemination testbed, called GriDis, has been deployed and maintained in order to provide a permanent infrastructure for tutorials and live demos.

- It has been adopted as the official platform for EDG tutorial road show.

- It has also been used by the "Grid Café" initiative to develop and demonstrate some sample grid-enabled applications.

- Grid accounts have been created on the GriDis testbed for some members of the "Grace" project for self-training purposes.

[GriDis logo]

Local dissemination

Live demos

- ◆ The dissemination testbed has been effectively used to demonstrate the project results.

- ◆ 6 live demos held during 2003:

  - ▪ 14 May 2003, web-based live demo during the "6th EDG Conference" (Barcelona – Spain)

  - ▪ 22 May 2003, Perugia University (Perugia - Italy);

  - ▪ 19 June 2003, "Experts Day" of Surfnet GiGaPort (The Netherlands);

  - ▪ July 2003, Demo for Wolfgang Boch, EU program officer for "Complex Problem Solving";

  - ▪ 1 October 2003, wizard-based job submission at the "German Grid Day" following the "7th EDG Conference", (Heidelberg – Germany).

  - ▪ 1 December 2003, live demo for the "Grid Café" one-day event at the Microcosm museum of CERN, (Switzerland/France)

Tutorials

- A major dissemination achievement with contributions from the whole project

- GriDis testbed adopted as the official training facility.

- Two formats:
    - Two full days with lectures and hands-on exercises
    - One day with only theoretical lectures

[Photos of the tutorials]

Two-day format: day 1

Morning - Presentations

- **Tutorial introduction**: tutorial's summary, logistics and useful information

- **Introduction to Grid computing and overview of the DataGrid project**: basic concepts of Grid computing, state of the art in Grid technologies and brief description of the DataGrid project

- **Security**: the security model in the Globus toolkit; user and resource authentication.

- **Testbed overview**: description of the components of a DataGrid Testbed and of their mutual interactions.

- **Job Submission**: job life-cycle in a DataGrid testbed. Resource match-making and allocation.

Afternoon - Hands-on exercises

- Job submission exercises

Two-day format: day 2

Morning - Presentations

- **Data Management**: how data can be moved, replicated and accessed in a DataGrid testbed.

- **Information systems**: how a DataGrid testbed manages information about available resources.

- **Fabric management, software distribution & installation**: tools for computing farm installation and machine configuration management.

- **Applications and Use Cases**: examples of applications which can benefit from the adoption of Grid technologies.

- **Future Directions**: future developments in Grid computing and prosecution of the DataGrid project

Afternoon: Hands-on exercises

- Data management exercises

The tutorial road show

◆ Starting from March 2003 the GriDis testbed has been used as the EDG training facility in 11 tutorials:

  - 4 in Italy,

  - 2 in Switzerland/France at CERN,

  - 1 in Greece,

  - 1 in Spain,

  - 1 in Austria,

  - 1 in Portugal,

  - 1 in UK.

◆ Due to bandwidth limitations an ad hoc testbed has been set up locally for a tutorial in Pakistan

Tutorial road show stops (2003)

- 18/19 March 2003: EDG User tutorial. Location: CERN (Switzerland/France).

- 7/8 April 2003: EDG User tutorial. Location: Imperial College (London, UK).

- 29/30 April 2003: EDG User tutorial. Location: Aveiro, Portugal.

- 26/28 May 2003: EDG User tutorial. Location: INFN (Catania, Italy).

- 10/11 June 2003: EDG User tutorial. Location: Consiglio Nazionale delle Ricerche (Rome, Italy).

- 13/25 July 2003: Grid School (including EDG User Tutorial). Location: Vico Equense - Naples, Italy .

- 25 August/ 5 September 2003: CERN School of Computing (EDG Tutorial in Grid Track). Location: Krems, Austria.

- 11/12 November 2003: EDG Tutorial on EDG 2.0. Location: CERN (Switzerland/France).

- 2/3 December 2003: EDG Tutorial. Location:University of Madrid (Madrid, Spain).

- 10/11 December 2003: Globus/EDG Tutorial. Location: ESA/ESRIN (Frascati - Rome, Italy).

- 15/16 December 2003: EDG Tutorial. Location: Athens, Greece.

Support of the open software adoption and contribution to international standards

Software and documentation download website

- The EDG software and documentation can be downloaded from the URL … .

- The EDG software is also included in the GPT repository.

[Snapshots of the EDG download site]

Contributions to international standards

◆ The DataGrid project contributed to the establishment od international standards in the following ways:

- ▪ Participation to GGF activities

- ▪ Papers

- ▪ Inter-project collaborations

◆ An exhaustive report about the contributions to international standards can be found in D11.9

Industrial deployment

Events organization/participation

- WP11 staff contributed to the organization of 13 events during 2003 in one or more of the following forms:

    - attendance;

    - provision of dissemination material;

    - booth organization;

    - public talks;

    - live demos;

    - logistic organization.

Video material

◆ About 50 hours of video material

◆ About 980 photos

◆ About 370 photos published on the dissemination portal

[Photos]

European Grid Industry and Research Forum

- The **European DataGrid Industry and Research Forum** is the result of the merger of the DataGrid and CrossGrid Industry and Research Fora

- It now counts 283 members.

- WP11 staff collected subscriptions during events and conferences.

- People can also subscribe via the online form accessible in the "European Grid Industry and Research Forum" website.

Industry and Research events

- ◆ During 2003 WP11 supported the organization of the following two "**European DataGrid Industry and Research Forum**" events:

  - ▪ Santiago de Compostela, Spain, February 2003, within the framework of the "Across Grids Conference";

  - ▪ Barcelona, Spain, June 2003, within the framework of the "6th EDG project conference".

Lessons learned

◆ Tutorials with hands-on practice, live demos and a rich web portal are effective dissemination instruments;

◆ The deployment of an ad hoc training facility (e.g. the dissemination testbed) is the only way to assure the availability of a testbed during tutorials and dissemination events.

But …

◆ Funding of dissemination activities is a critical issue to insure the necessary human and technical resources.

◆ The establishment of a network of point of contacts can be achieved only with the allocation of ad hoc human resources.

Future and exploitation

◆ The dissemination website will be archived and turned into a static repository where the EDG results will be still available.

◆ All the dissemination experience acquired during the DataGrid project will be fed into the EGEE project.