EO Applications Parallel Session

DataGrid WP9

6th Project Conference – May 12-15, Barcelona

Outline

- Status Report

- Overview of Objectives & Achievements

- Work plan for May-Dec 2002

- EDG Follow-on plans

- Specific Issues

Status Report - Tasks

- Task 9.1 EO requirements definition
  - Completed

- Task 9.2 EO related middleware components (pm1 - pm18)
  - Completed

- Task 9.3 EO Platform Interface Development (pm7 - pm30)
  - Nearly done
  - D9.4 (Report) due July

- Task 9.4 EO Ozone/Climate application (pm13 - pm36)
  - D9.3 completed
  - Web Portal version 1 completed
  - D9.5 (Demonstration & Report) due December

- Task 9.5 Full scale Earth Science application (pm7 - pm18)
  - Completed

Status Report - Deliverables

- Delivered to EU

  - D9.1 EO Requirements Specification

  - D9.2 Report on Grid Testbeds State-of-art

  - D9.6 Report on the EO application scaling study

  - D9.3 Demonstration /report of second software components release

- In Work

  - D9.4 Report on EO application platform interface

- Not started

  - D9.5 EO application processing test-bed (Demonstration and report)

Status Report – Effort (pm)

- From QR9 Report (simplified)

	Estimated	Spent	Remaining	Deviation
KNMI	24	22	8	+6
IPSL	36	40	5	+9
ESA	94	131	11	+48
ENEA	0	3	0	+3

- Total effort remaining est. 24 pm (reported)

- Total effort available to completion est. 64 pm (actual)
  - ESA : 5 (40)
  - IPSL : 2 (16)
  - KNMI : 1 (8)

Overview of Objectives & Achievements

- **EO Application environment and components**
    - Deployment of GOME (proc. & val. algorithms),
    - EO Grid Portal
    - EO Grid Engine
    - Low-level interfacing components, scripts, etc.

- **EO infrastructure deployment**
    - UI, CE, SE at partners sites
    - Campus Grid, Local Grid

- **Increasing GRID awareness in EO**
    - many new applications being discussed
    - under way : GREASE, GOMOS,

- **Participation to EDG**
    - ATF, AWG, QAG, Project conf, etc.

- **EDG TestBed evaluation**
    - Next evaluations : May-Aug & Sep-Dec
    - Next demo ?

Work plan May-Dec : Tasks & Deliverables

- Task 9.3

  - Common application layer specification, design, prototyping

  - Grid-Engine & Portal prototype

  - EDG sites deployment

  - D9.4 : EO Platform Interface (Report)

- Task 9.4

  - GOME processing / validation deployment

  - GOMOS deployment ?

  - Further development of EO Use Cases / Requirements
    - (AWG / ATF / QAG)

  - D9.5 : Final Evaluation (Prototype demonstration and report)

Workplan May-Dec : Evaluation of EDG 2.0

- New features available to be evaluated
  - information system (R-GMA)
  - improved JSS capacity
  - RLS (WP2 new rollout of RC/RM)
    - new metadata capabilities
  - SE space reservation
  - MPI
  - other features ?

- Re-run EO GOME data challenge
  - process 1,2,3,4,5 years ?

- OPERA

- GOMOS

Workplan May-Dec : EDG Activities

- Meetings planned, key topics, documents, inputs etc.

- AWG
  - Pritority list
  - Use Cases
  - ...

- ATF
  - EO Requirements
  - ...

- QAG
  - Quality metrics
  - ...

Workplan May-Dec : Next demonstrations

- EO Grid Portal
  - deployment on new Grid Engine + infrastructure
  - processing multiple orbits
    - submit & monitor multiple processing/validation jobs on multiple grids
  - data transfer from (to ?) AMS
  - metadata handling by RLS ?
  - interfacing to new EDG security
- OPERA
  - ...
- GOMOS
  - ...
- Other ?
  - ...

Workplan May-Dec : Application development

- GOME
  - Data challenge – more GOME data processing required ?

- GOMOS
  - operational requirements

- Other ?

Workplan May-Dec : EO Platform Interface

- Several parallel tasks

- Requirements & design

- Code development & testing
  - of basic functionality
    - select target Grid
    - authenticate
    - browse Information System
    - list available applications
    - execute jobs (on the different available Grids)
    - retrieve results
  - of SOAP interface

- Integration of client and sever (via SOAP)
  - new Grid Portal roll-out

- Write-up of D9.3

EDG Follow-on plans

- Future presence of EO community in the leading-edge pan-European Grid ?

- Continuation of EO VO ?

  - From June EDG app testbed will be transfered under LCG
    - EO applications will be supported until end of EDG project

- Future participation of EO Sites Resources & Services ?

Specific Issues