eGee

Experience and plans using gLite (New applications)

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Enabling Grids for E-sciencE

- **GILDA and GENIUS role**
- **Test on gLite**
- **gLite and the GA requirements**
- **Summary**

30 tutorial+demo from April 2004

Tested applications:

- **Earth observation**

- **Hydrology**

- **Geosciences**

- **Computational Chemistry**

- **Astroparticle Physics**

- **20+ demonstrative applications**

They are

- **Key enablers of of the EGEE "virtuous cycle"**
- **Important instruments for dissemination**

To continue to use these instruments we need

- **Access to testbed (prototype and/or pre-production)**
- **Keep in touch with development**
- **Interaction to have GENIUS working properly on gLite**

Enabling Grids for E-sciencE

- **During last ARDA Workshop I tried to download, install and configure gLite client** successfully

- **Fedora Core 2 machines**
  - the data management related commands worked
  - the job submission commands did not (libstdc++ problem)

- **Production testbed UI**
  - Data management and job submission worked

But…. Last Saturday data management did not work any more

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Documentation

- **Not updated**

- **Unclear the configuration part**

- **Unclear where the configuration files go in case of centralized installation**

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51 requirements

- **12 should be already fulfilled and we will test them in the next days**
  - Job submission
  - Data management
  - Information service
- **22 imply middleware modifications**
  - High priority job submission
  - Metadata and their access rights
  - MPI
- **17 imply further testing or middleware enhancements**
  - DAG jobs
  - Anonymous access
  - Retrieve part of a replica

Enabling Grids for E-sciencE

- **Light client and scripting capabilities (GENIUS)**
- **Program streams accessible at runtime**
- **Interactive and MPI interactive**
- **Posix like interface to replicas**
- **Permanent index for Information Service and Resource Broker**
- **Metric about jobs**
- **QoS**
- **Handling of licensed software**
- **Data encryption**
- **Outbound connectivity to external services**
- **Guaranteed network bandwidth**

Enabling Grids for E-sciencE

- **It is important support to GILDA/GENIUS group**
- **We will begin an extensive testing soon**
  - Basic functionalities
  - Requirements
- **We are ready to discuss other requirements**