



Enabling Grids for  
E-science in Europe

[www.eu-egee.org](http://www.eu-egee.org)

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# Job Submission

**Roberto Barbera**  
**EGEE NA4 Generic Applications**



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# The Command Line User Interface

- The user interacts with Grid via a **Workload Management System (WMS)**
- The Goal of WMS is the **distributed scheduling and resource management in a Grid environment.**
- What does it allow Grid users to do?
  - To submit their jobs
  - To execute them on the “best resources”
    - The WMS tries to optimize the usage of resources
  - To get information about their status
  - To retrieve their output

# Job Submission

```
>> edg-job-submit [-r <res_id>] [-c <config file>] [-vo  
<VO>] [-o <output file>] <job.jdl>
```

- **-r** the job is submitted directly to the computing element identified by *<res\_id>*
- **-c** the configuration file *<config file>* is pointed by the UI instead of the standard configuration file
- **-vo** the Virtual Organization (if user is not happy with the one specified in the UI configuration file)
- **-o** the generated *edg\_jobId* is written in the *<output file>*
  - Useful for other commands, e.g.:
  - **edg-job-status -i *<input file>* (or *edg\_jobId*)**
    - i the status information about *edg\_jobId* contained in the *<input file>* are displayed

## Other Job's commands (1/2)

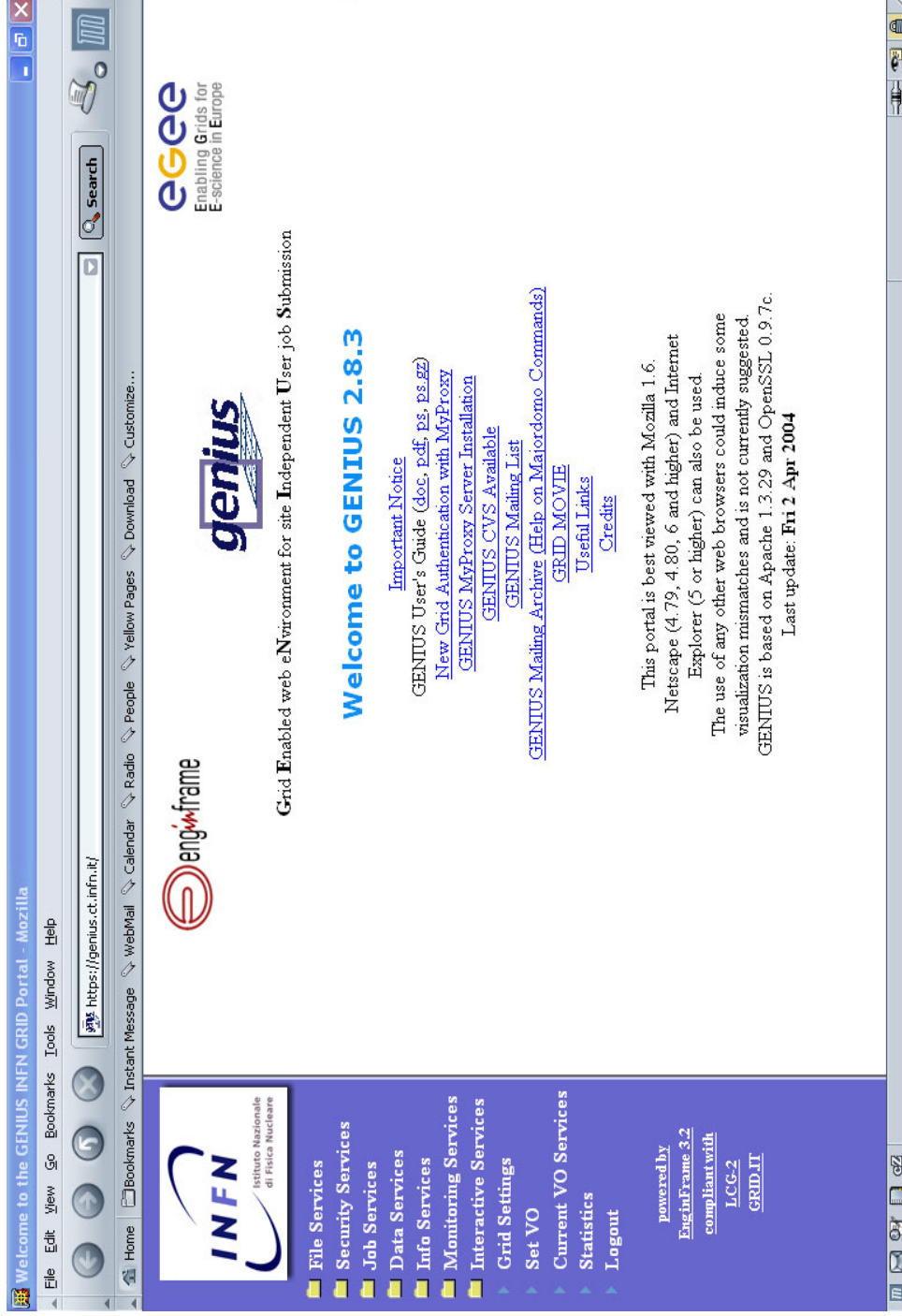
- **edg-job-list-match** *<job.jdl>*
  - Lists resources matching a job description
  - Performs the matchmaking without submitting the job
- **edg-job-cancel** *<jobId>*
  - Cancels a given job
- **edg-job-status** *-i <input file> (or edg\_jobId)*
  - Displays the status of the job
  - *-i* the status information about **edg\_jobId** contained in the *<input file>* are displayed

## Other Job's commands (2/2)

- **edg-job-get-output --dir <jobId> -i <input file>**
  - Returns the job-output (the OutputSandbox files) to the user in the <dir> directory
- **edg-job-get-logging-info <jobId>**
  - Displays logging information about submitted jobs (all the events “pushed” by the various components of the WMS)
  - Very useful for debug purposes

# Genius Portal

<https://grid-tutor.ct.infn.it>






The screenshot shows a Mozilla browser window displaying the Genius Portal. The browser's address bar shows the URL <https://genius.ct.infn.it/>. The page content includes the E-GEE logo at the top right, the 'genius' logo in the center, and the 'engwframe' logo at the bottom left. A navigation menu is located at the bottom of the page, listing services such as File Services, Security Services, Job Services, Data Services, Info Services, Monitoring Services, Interactive Services, Grid Settings, Set VO, Current VO Services, Statistics, and Logout. A footer section mentions the site is powered by EngwFrame 3.2, compliant with LCG-2 and GRID.IT. The main content area features a 'Welcome to GENIUS 2.8.3' section with a link to an 'Important Notice' and several other links related to user guides, authentication, and mailing lists. A paragraph of text explains that the portal is best viewed with Mozilla 1.6 or Netscape 4.79, 4.80, 6 and higher, and Internet Explorer 5 or higher. It also notes that the use of other web browsers could cause visualization mismatches and is not currently suggested. The page is based on Apache 1.3.29 and OpenSSL 0.9.7c, with a last update date of Fri 2 Apr 2004.

Welcome to the GENIUS INFN GRID Portal - Mozilla

File Edit View Go Bookmarks Tools Window Help

Home Bookmarks Instant Message WebMail Calendar Radio People Yellow Pages Download Customize...

Grid Enabled web eNvironment for site Independent User job Submission

## Welcome to GENIUS 2.8.3

[Important Notice](#)  
GENIUS User's Guide ([doc](#), [pdf](#), [ps](#), [ps.gz](#))  
[New Grid Authentication with MyProxy](#)  
[GENIUS MyProxy Server Installation](#)  
[GENIUS CVS Available](#)  
[GENIUS Mailing List](#)  
[GENIUS Mailing Archive \(Help on Major domo Commands\)](#)  
[GRID MOVIE](#)  
[Useful Links](#)  
[Credits](#)

This portal is best viewed with Mozilla 1.6.  
Netscape (4.79, 4.80, 6 and higher) and Internet Explorer (5 or higher) can also be used.  
The use of any other web browsers could induce some visualization mismatches and is not currently suggested.  
GENIUS is based on Apache 1.3.29 and OpenSSL 0.9.7c.  
Last update: **Fri 2 Apr 2004**

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- File Services
- Security Services
- Job Services
- Data Services
- Info Services
- Monitoring Services
- Interactive Services
- Grid Settings
- Set VO
- Current VO Services
- Statistics
- Logout

powered by  
EngwFrame 3.2  
compliant with  
LCG-2  
GRID.IT