Introduction to GILDA testbed and Genius portal

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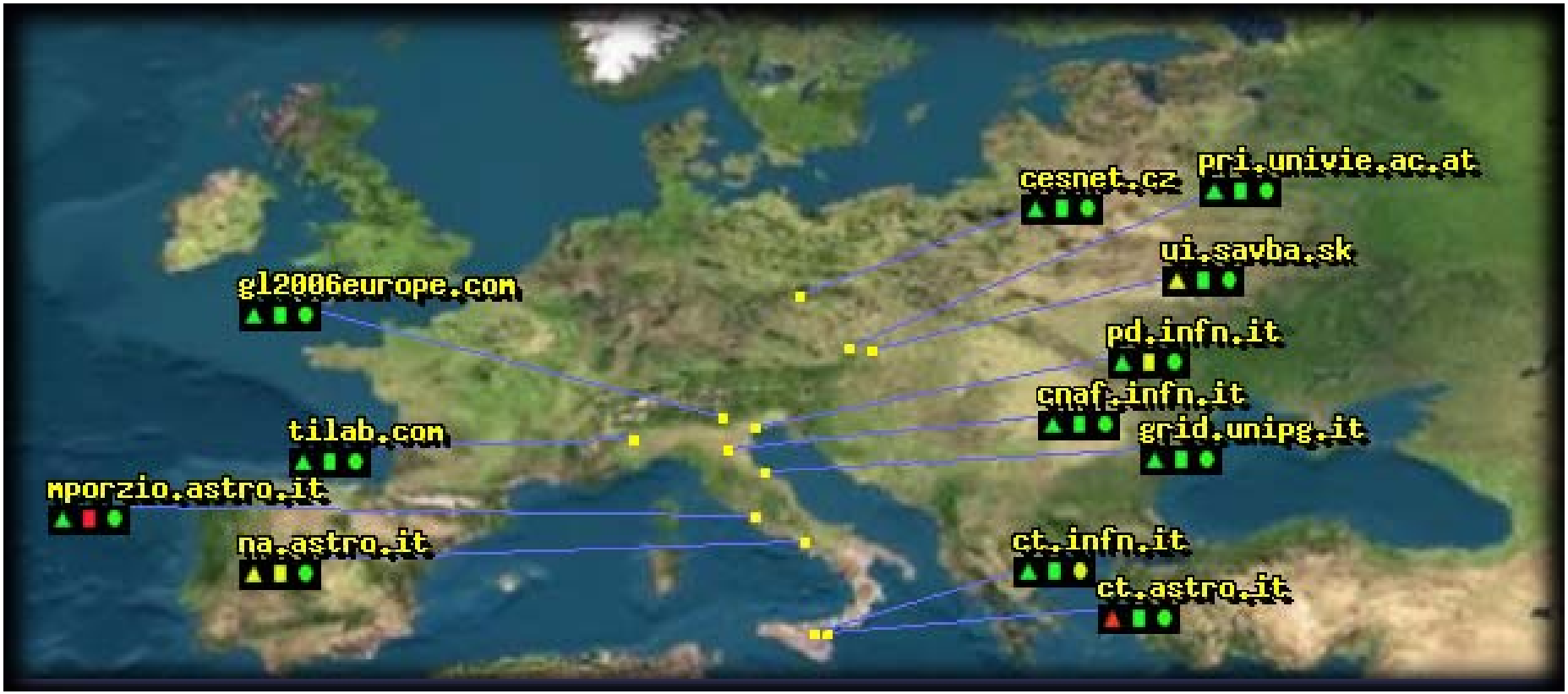
GILDA testbed

- **After a lot of information**
  - Users want to see a Grid testbed in action
  - Users want to try some examples in Grid
  - Users want to run their applications in Grid

- **GILDA is a complete suite of grid elements (test-bed, CA, VO, monitoring system, web portal) and applications**
- **Everyone can register and use GILDA for training and testing purposes**

GILDA testbed



GILDA testbed

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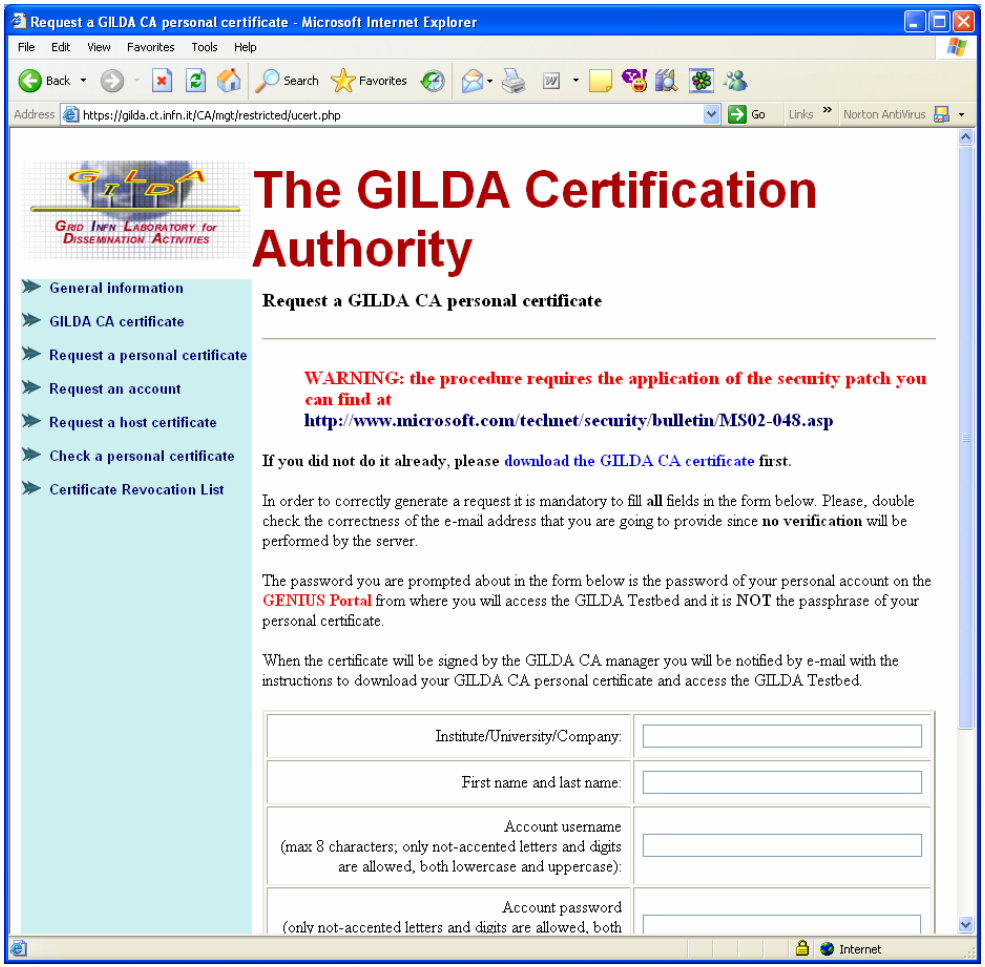
How to access to GILDA

- **Grid Demonstrator portal https://grid-demo.ct.infn.it**
  - Simplified version of Genius portal
  - No registration required
  - Users can run only predefined jobs
- **Grid Tutor portal https://grid-tutor.ct.infn.it**
  - Full version of Genius portal
  - Registration required (for accounts and certificates)
  - Users can define own jobs
  - Advanced features: VNC, job editor, Triana workflow, certificate management
- **Command-line user interface “ssh grid-tutor.ct.infn.it”**
  - Only for registered users
  - Users have full access to all grid commands

GILDA Certification Authority

- https://gilda.ct.infn.it/CA/
- Users can register and get Grid certificates (valid for 14 days)
- After that, users can use full version of Genius portal and/or command-line interface
- Please read carefully the instructions on the web pages



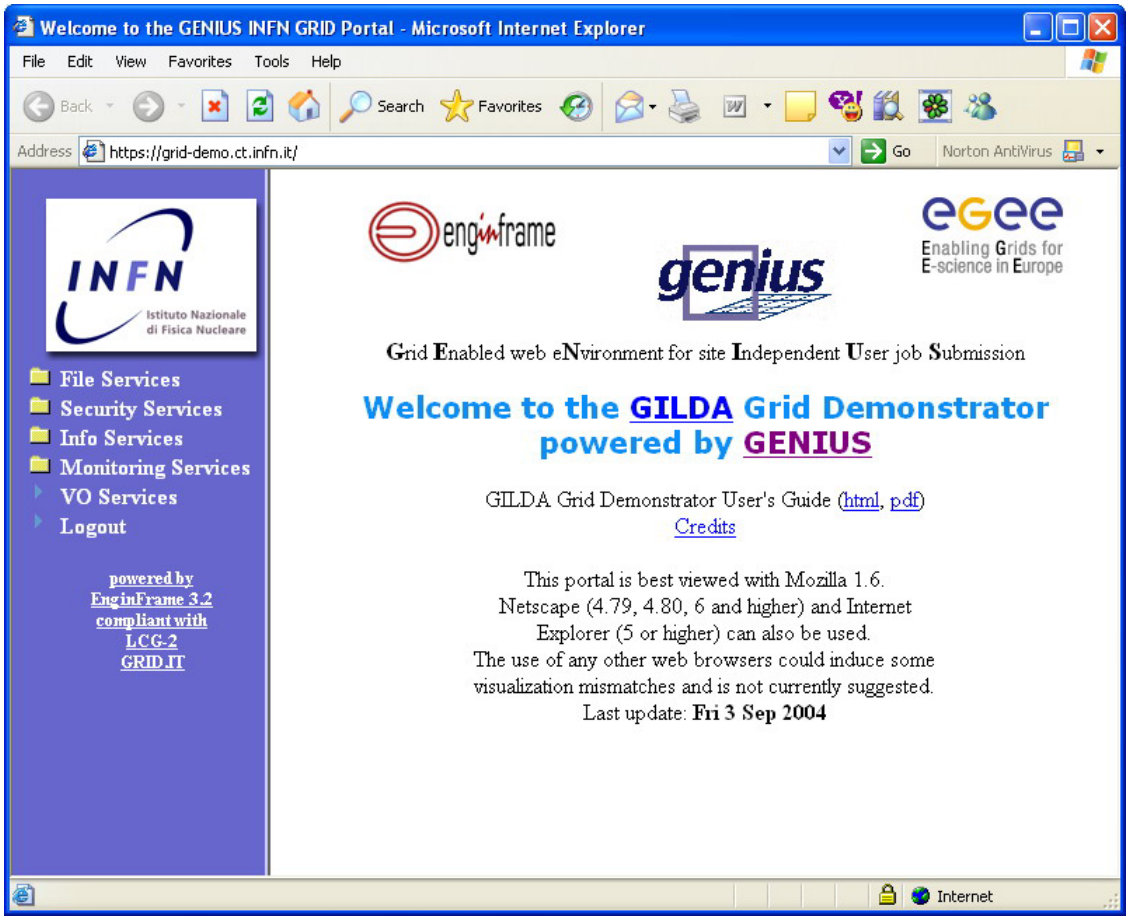
Command line UI versus Portal

- **Command-line user interface is powerful but**
  - It is take some time to learn the commands
  - The interface depends on the middleware
  - It is difficult to control what the users really do

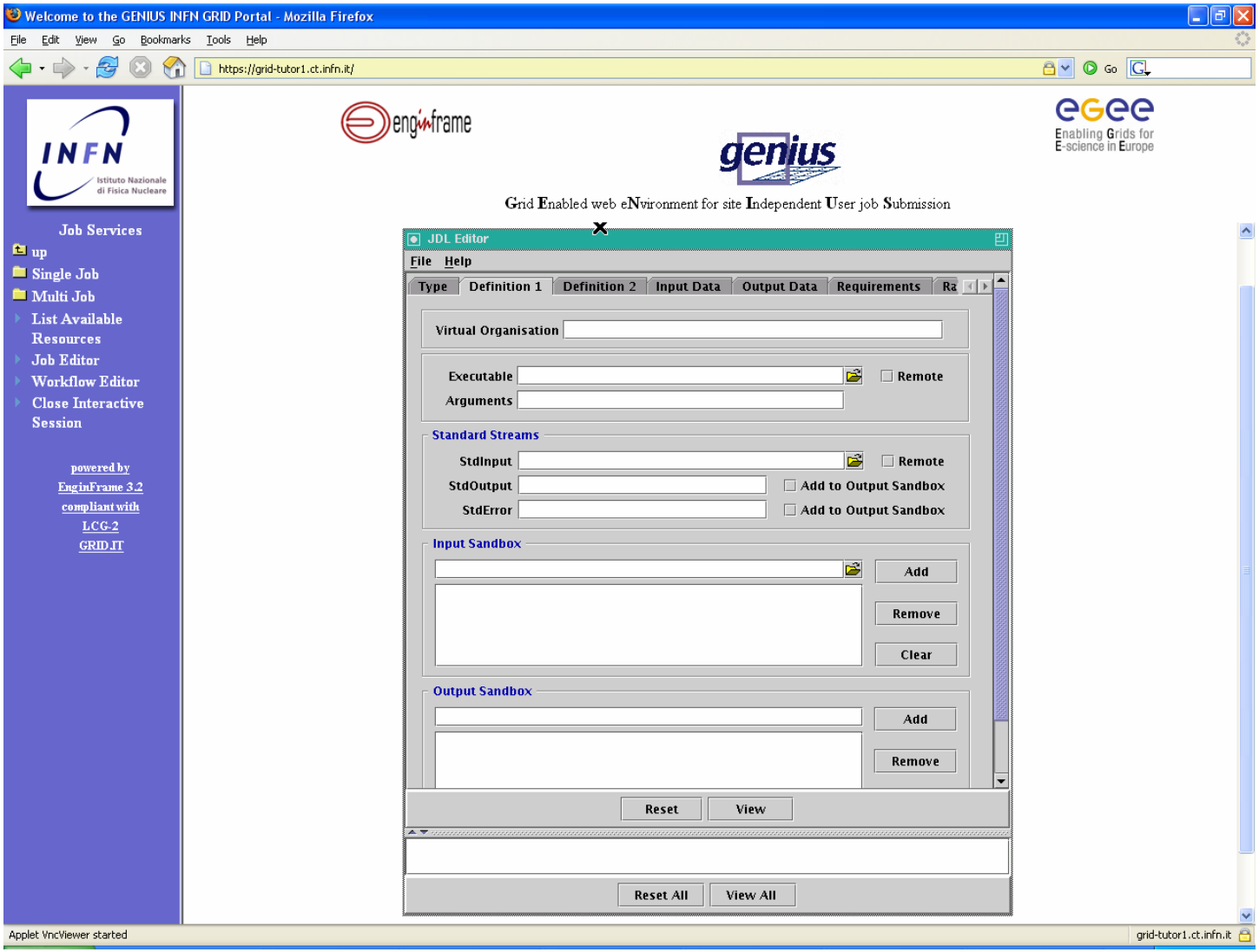
- **Portal is web-based user interface that**
  - Is accessible from everywhere
  - Has redundant security level
  - Is independent from middleware
  - Is easy to control what users can do

Genius portals

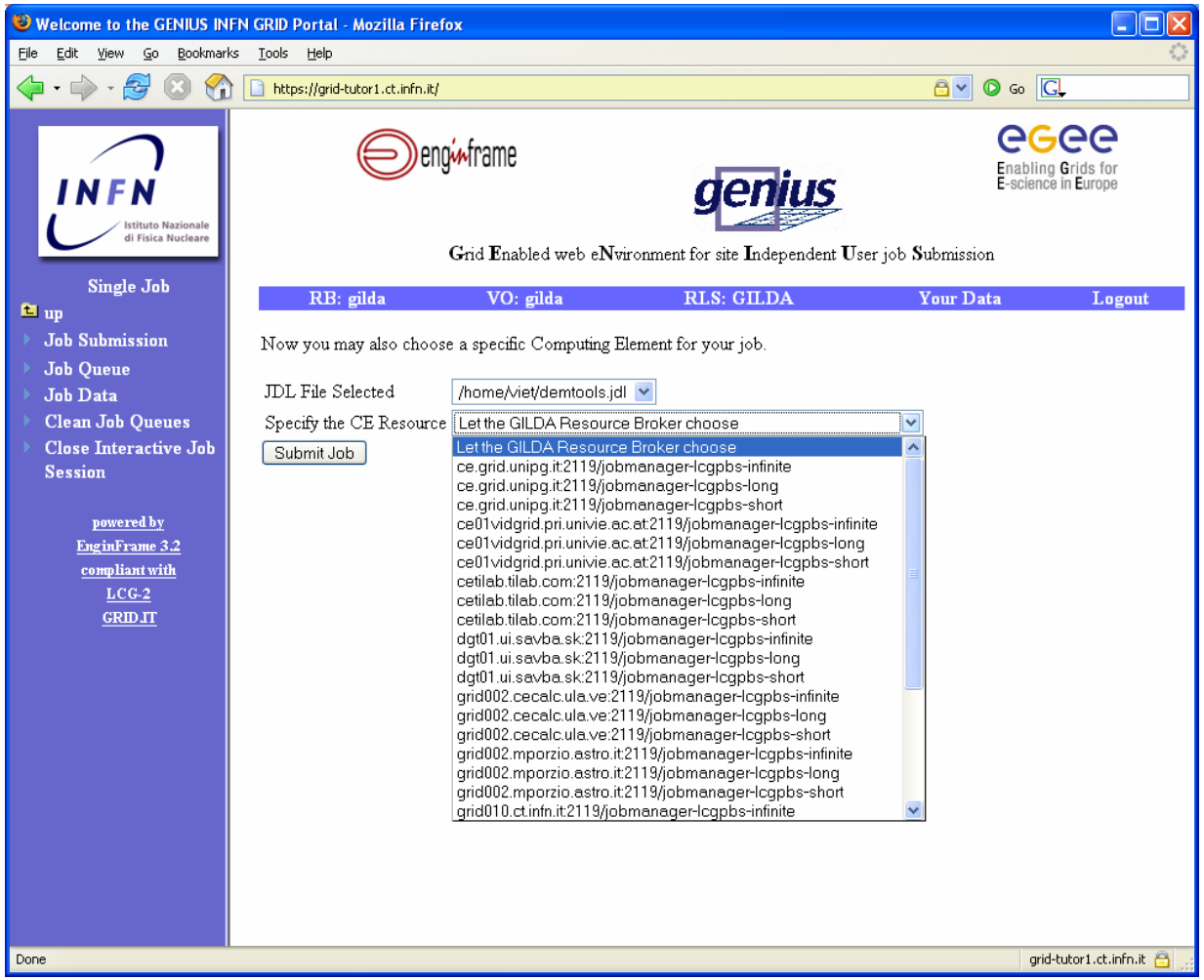
- Dedicated to GILDA testbed
- Based on XML technology
- Use command-line UI in background



Job definition (Creating JDL)



Job submission



GILDA home page

More information at https://gilda.ct.infn.it/

- Video tutorials
- Instructions for users
- LiveCD for User Interface

Notes

- **Note that GILDA is dedicated for training and dissemination purposes**
  - Do not overload it with long-time jobs or too many jobs
- **For large applications, please join EGEE project and run your applications on EGEE production testbed**
- **Contact us**
  - If you need more information about Grid computing and EGEE
  - If you want to join EGEE project
  - If you have a large application and want to port it to Grid
  - Or for any other Grid-related problems

More information at demonstration