



Enabling Grids for E-scienceE

# GENIUS, GENIUSphere and EnginFrame

*Alberto Falzone, Andrea Rodolico*  
*NICE srl*

*[www.nice-italy.com](http://www.nice-italy.com)*

*NA4 Generic Application Meeting*  
*Catania, 10.01.2006*

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



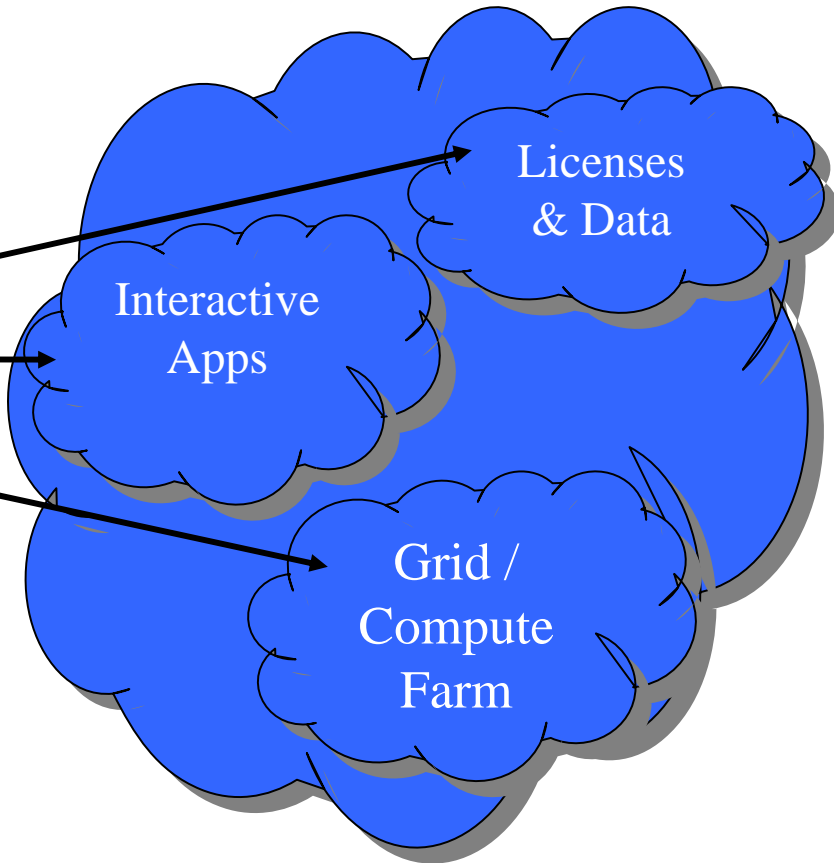
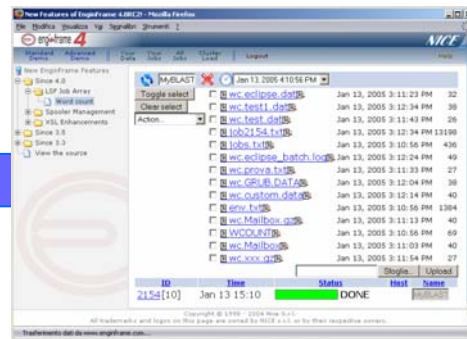
- **EnginFrame: the Framework for Computing Portals/Gateways**
  - The long history from 3.2 to 4.1 version
  - Industrial adoption overview
- **GENIUS: new features, improvements**
  - The Changes in the backend and the stack on the gLite UI
  - New Features, Improvements
  - Management of User Security
- **GENIUSphere**
  - JSR168 compliance from GENIUS/EnginFrame
  - EnginFrame Portlets in GridSphere
- **Demo Session**
- **Q & A**

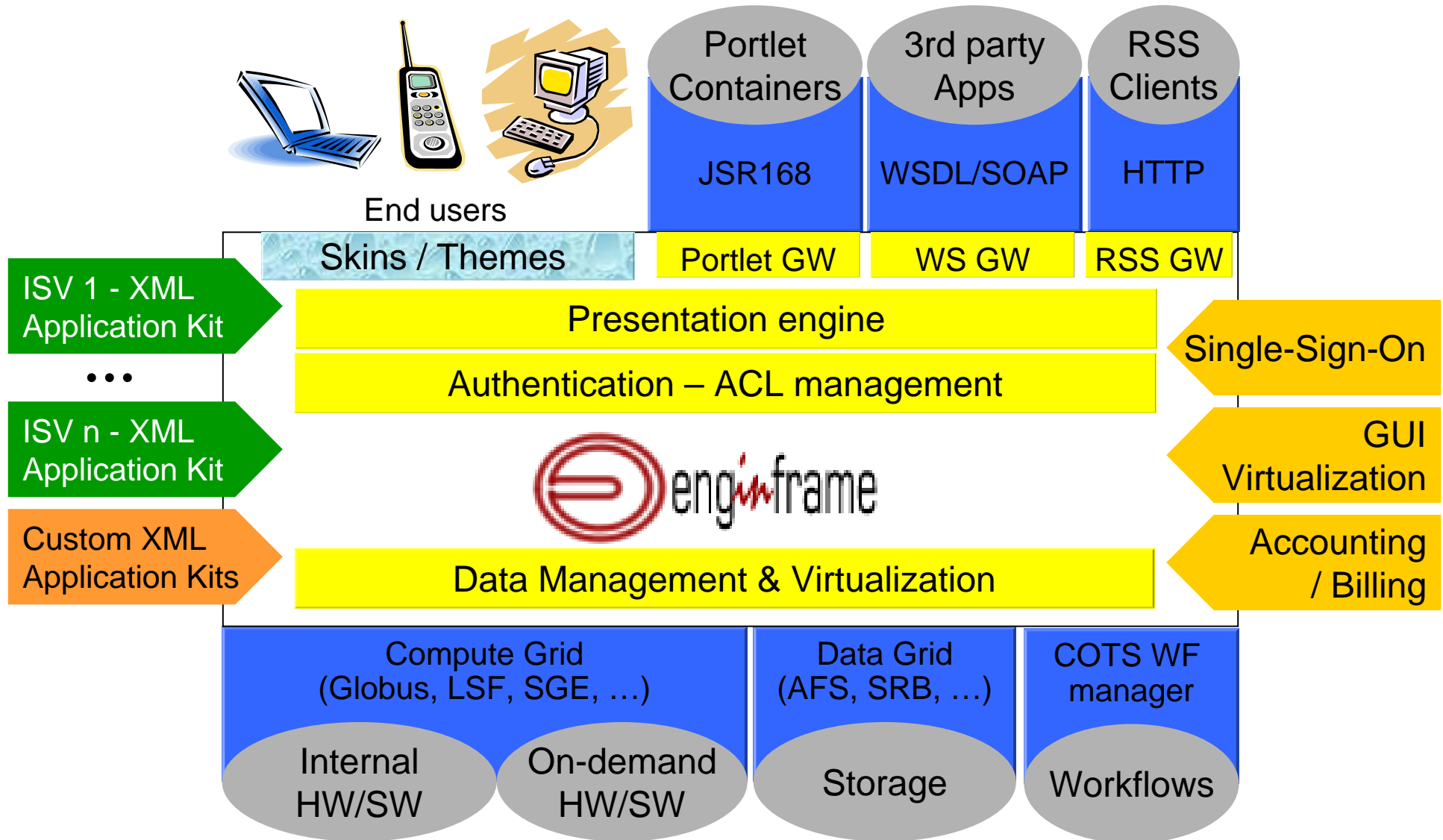
- **It can be accessed from everywhere and by “everything” (desktop, laptop, PDA, cell phone).**
- **It can keep the same user interface to several back-ends.**
- **It must be redundantly “secure” at all levels:**
  - 1) secure for web transactions,
  - 2) secure for user credentials,
  - 3) secure for user authentication,
  - 4) secure at VO/VOMS level.
  - 5) secure in data management
- **All available grid services must be incorporated in a logic way, just “one mouse click away”.**
- **Its layout must be easily understandable and user friendly.**



**Clients**

**Standard  
Web  
Technology**





## 1.x - LAN Integration (1998)

- Unix-Windows integration for simplified parallel and distributed computing

## 2.x - WAN MetaComputing interface (1999)

- Standards convergence, dynamic contents management

## 3.x - Computing Portal (2000-2003)

- Web architecture, JS independence, Globus integration

## 3.5 – Enterprise Grid Portal (2004)

- Fault tolerance, Auth delegation, Authorization, EP integration

## 4.x – Grid Gateway (2005)

- WebServices, user mapping, enhanced Data management, RSS, JSR168



End users



ACL management

Services

Option sets

Field contents

XML output

# The Authorization Framework

- **Authorization System** is aimed to authorize *user* accesses to *resources*
  - allowing or denying **operations**
  - according to a set of predefined **policies**.
- Actor **concept abstracts users**. An actor can represent
  - single user
  - group of users
- **EnginFrame resources are:**
  - **folders**
  - **services**
  - service **options**
  - service **action**
  - service **output**
- **Authorization policies are defined by** *Access Control Lists*



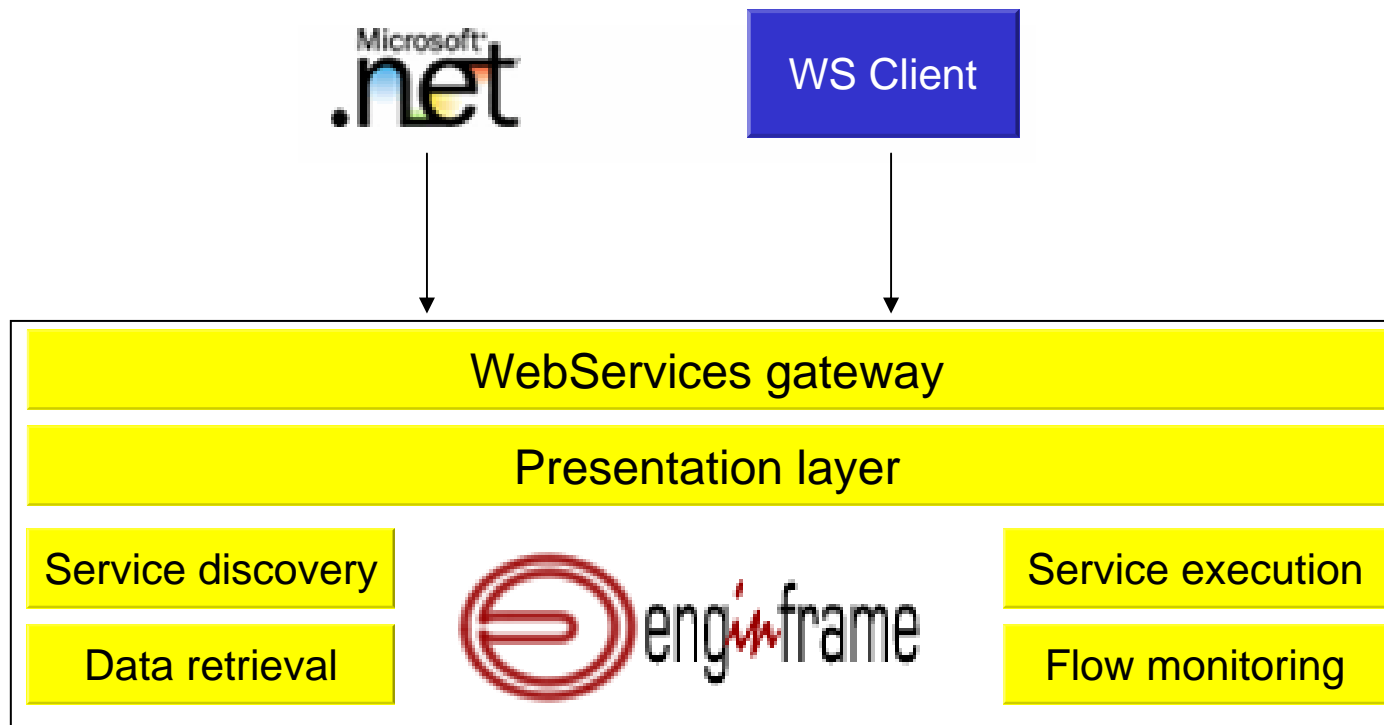
Slide 8

---

M2

100%

Mauri, 1/24/2005

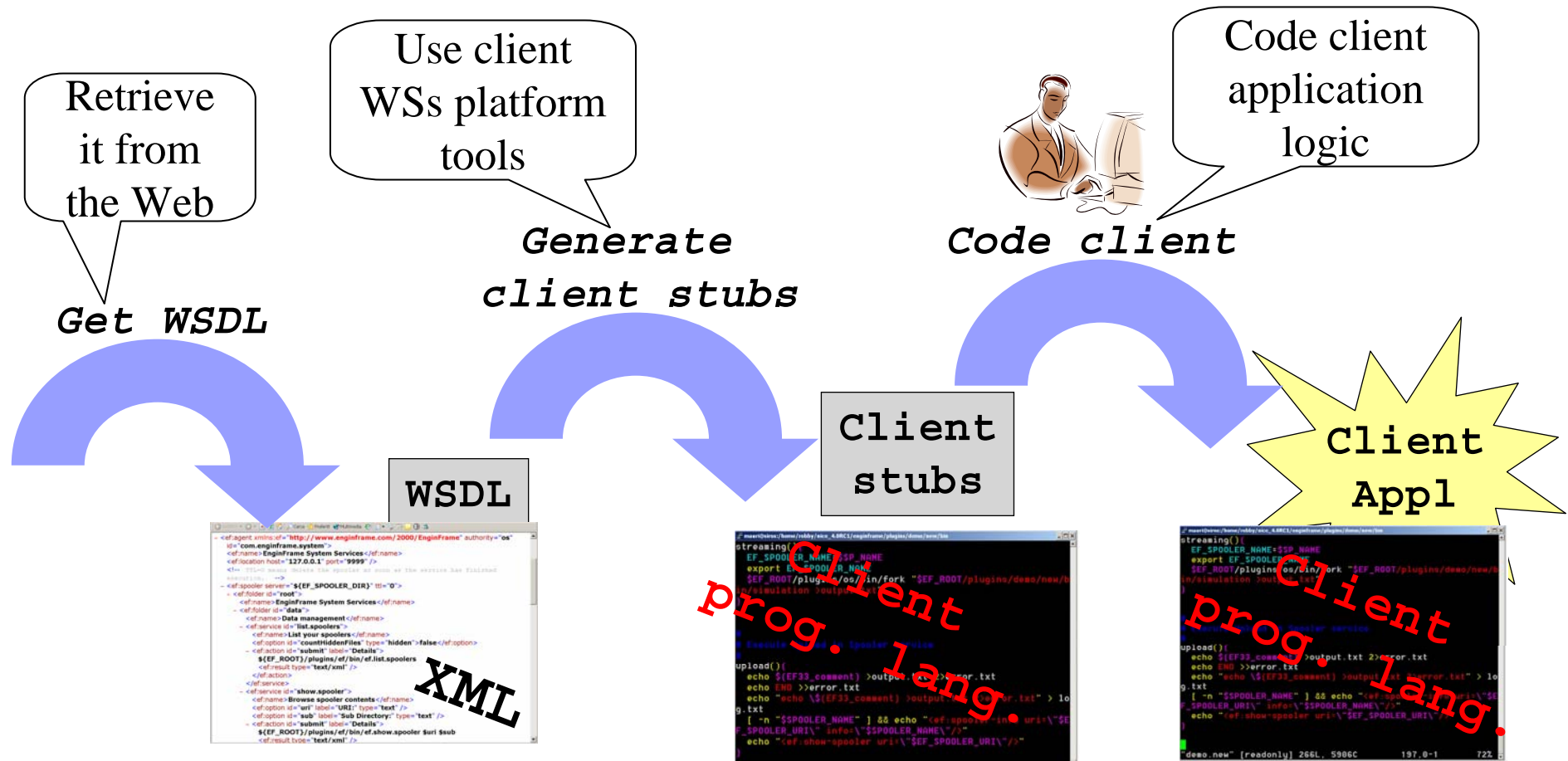


- **EnginFrame WSDL file defines:**
  - The Web Service **end-point**: URI location of the Web Service
  - The Web Service **operations**: the functions available by the Web Service and their complete interface
  - The **data types**: data structures used with the Web Service operations
- **EnginFrame WS is described by its WSDL:**  
EnginFrameWS.wsdl
- **EnginFrame.wsdl** on the file system:
  - `$EF_ROOT/WEBAPP/WEB-INF/wsdl/EnginFrameWS.wsdl`
- **EnginFrame.wsdl** on the Web:
  - `http://<EF_host>:<EF_port>/<EF_context>/efws/EnginFrameWS?wsdl`

m1

0% - 1gg  
mauri, 1/17/2005

- The *general approach* of setting-up an EnginFrame WS client application:



**EnginFrame Client Reference Implementation is available for Java language.**

M1

100%

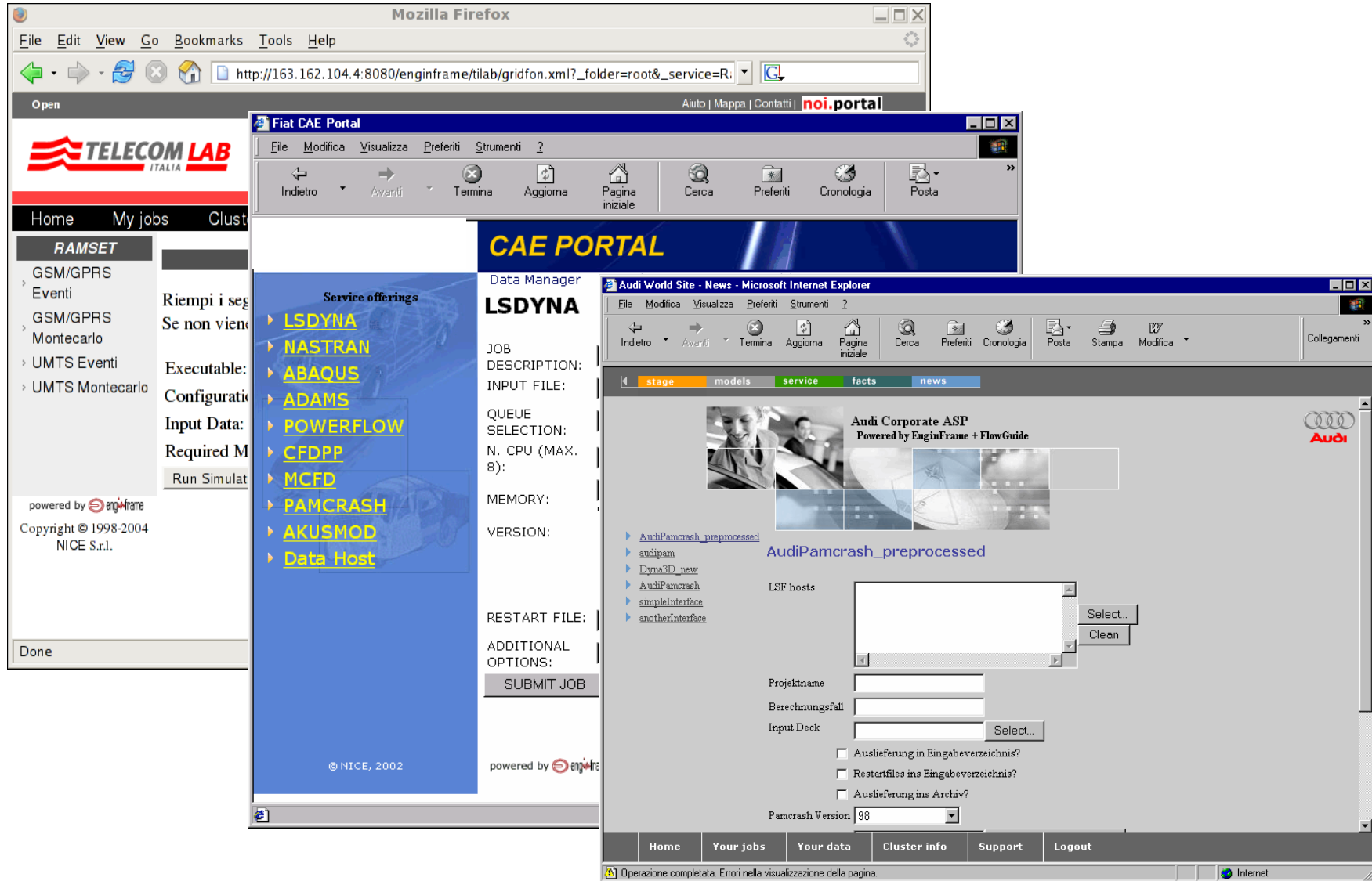
Mauri, 1/25/2005

- **The Java Client Reference Implementation is a Java language client API**
- **Based on the Apache Axis technology**
- **Layer over the stubs classes aimed to provide a higher level application interface to EnginFrame**
- **Major benefits of use the EnginFrame WS Java CRI:**
  - *Ready to use*
  - *Transparent:* it is just a Java API. You do not have to cope with stub generation.
  - *OOA*
  - *File upload/download management*

- It is possible to request the EF Web Services Java Client Reference Implementation from [support@enginframe.com](mailto:support@enginframe.com)
- The Java Client Reference Implementation software bundle includes
  - Java **stubs** classes
  - Java **client layer**: client + utility classes
  - Required **Java libraries**: Axis, Jakarta-httpclient
  - **Javadoc** of the client API
  - Client **examples** with sources
- Implementation for other languages (.NET, Python, Perl) are also available



- **Mechanical**
  - Ferrari, Audi, BMW, FIAT Auto, Delphi, Elasis, Magneti Marelli, P+Z, Swagelok, Toyota, TRW
- **Manufacturing**
  - Bridgestone, Procter & Gamble, Galileo Avionica
- **Oil&Gas**
  - Slavneft, Schlumberger, TOTAL, VNIIGaz
- **Electronics**
  - STMicroelectronics, Accent, SensorDynamics, Motorola
- **Biotech**
  - ENEA, EGEE LS community
- **Telecom**
  - Telecom Italia
- **Research**
  - INFN, ASSC, CCLRC, CERN, CILEA, CINECA, CNR, CNRS/IN2P3, ENEA, FzU, ICI, IFAE, ITEP, JSC G.G.M., KU Leuven, SSC-Russia, SDSC
- **Education**
  - Dresda University, Ferrara University, ITU, Messina University, Politecnico of Milan, Technische Universität Dresden, Trinity College Dublin, Salerno University, S-PACI



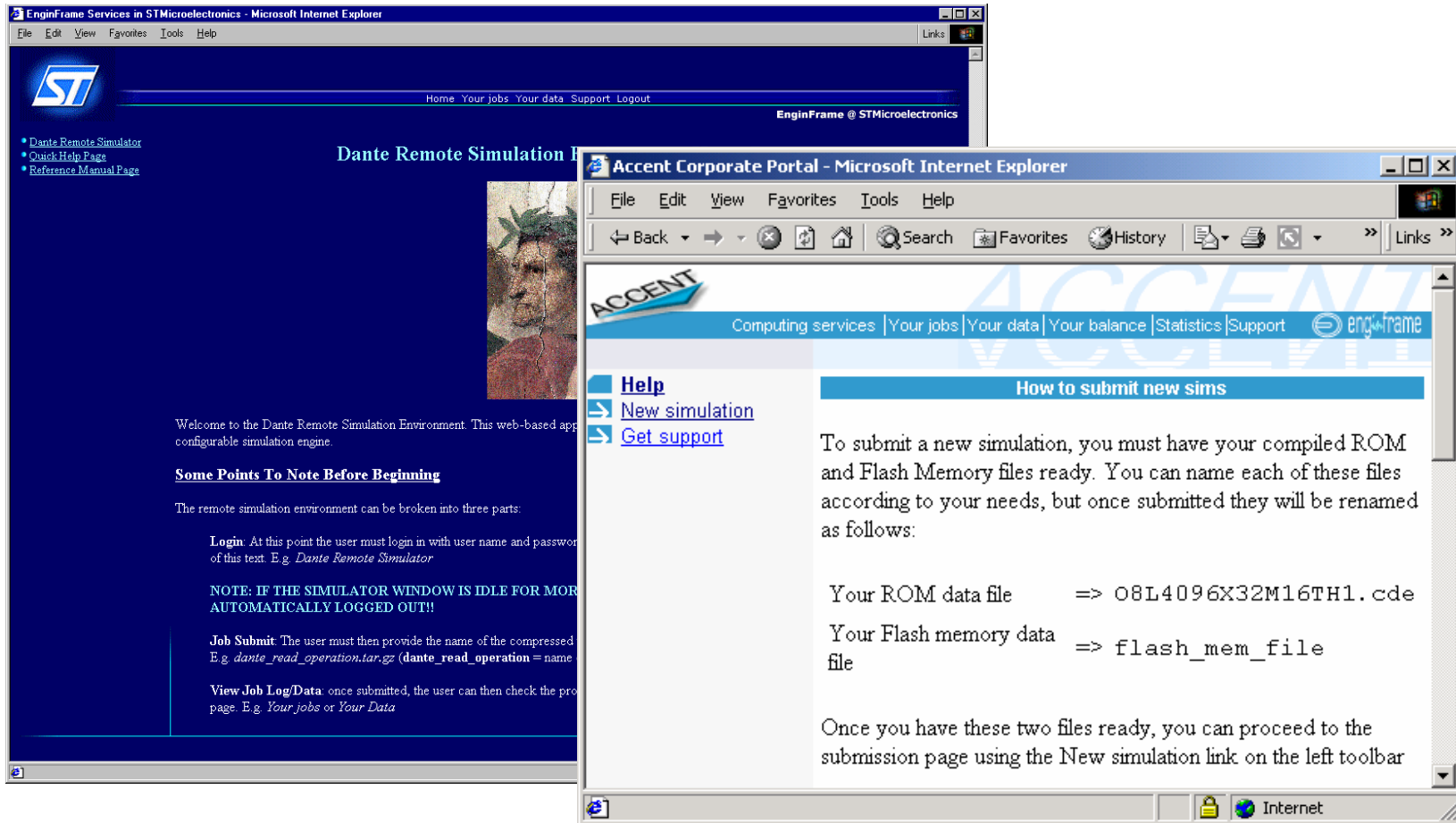
The screenshot displays two overlapping web browser windows. The background window is Mozilla Firefox showing the Fiat CAE Portal. The foreground window is Microsoft Internet Explorer showing the Audi Corporate ASP interface.

**Fiat CAE Portal (Background Window):**

- Address bar: `http://163.162.104.4:8080/enginframe/tilab/gridfon.xml?_folder=root&_service=R...`
- Navigation: Home, My jobs, Clust
- Service offerings menu:
  - ▶ LSDYNA
  - ▶ NASTRAN
  - ▶ ABAQUS
  - ▶ ADAMS
  - ▶ POWERFLOW
  - ▶ CFDP
  - ▶ MCFD
  - ▶ PAMCRASH
  - ▶ AKUSMOD
  - ▶ Data Host
- Footer: © NICE, 2002

**Audi Corporate ASP (Foreground Window):**

- Address bar: Audi World Site - News - Microsoft Internet Explorer
- Navigation: Home, Your jobs, Your data, Cluster info, Support, Logout
- Page Title: Audi Corporate ASP Powered by EnginFrame + FlowGuide
- Content:
  - stage | models | **service** | facts | news
  - AudiPamcrash\_preprocessed
  - andipam
  - Dyna3D\_new
  - AudiPamcrash
  - simpleInterface
  - anotherInterface
  - LSF hosts: [Dropdown menu] [Select...] [Clean]
  - Projektname: [Text input]
  - Berechnungsfall: [Text input]
  - Input Deck: [Text input] [Select...]
  - Options:
    - Auslieferung in Eingabeverzeichnis?
    - Restartfiles ins Eingabeverzeichnis?
    - Auslieferung ins Archiv?
  - Pamcrash Version: 98
- Footer: Operazione completata. Errori nella visualizzazione della pagina.



## Black-box for EDA simulation



http://www.gridage.com - Gridage :: HOME - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indietro Cerca Preferiti

**GRID AGE** Login Password Go

HOME  
GRID AGE  
TRY GRID ONLINE  
PARTNERS  
SOLUTIONS  
NEWS & EVENTS  
CONTACTS

**News**

- MSC.Actran™ now on GridAge for efficient vibroacoustics simulation
- Intel tops off 64-bit server platform portfolio
- Intel Silicon Breakthrough Speeds Server, Network Responsiveness
- Newly formed Intel® Software Network creates 'one-stop shop' for ...

**What is Grid?**

Tracing its roots into distributed computing architectures, **Grid computing** enables geographically dispersed systems to share and virtualize their applications, data and computational resources.

More than just a vision, Grid computing delivers measurable business value, particularly among organizations with compute or data-intensive demands. With Grid Computing, companies can balance the supply and demand of computing cycles and resources by providing users with a single, transparent, aggregated source of computing power. Ultimately, it provides the ability to lower the total cost of computing by providing on-demand, reliable and transparent access to available computer resources...

Read more: [About Grid](#)

**Why GridAge?**

The **GridAge** initiative - born from the collaboration between HP, Intel, MSC.Software and Nice - is becoming the reference site for those people that are involved with technical-scientific computing both in educational and industrial departments.

**GridAge** offers information on the most important events that concern the world of the *High Performance Computing (HPC)* and give the real opportunity to be updated on the evolution of the solutions of this specific sector...

Read more: [Why GridAge](#)

Search

MSC SOFTWARE | hp | NICE | intel | www.mscsoftware.com | www.hp.com | www.nice-italy.com | www.intel.com

Print

Internet

<http://www.GridAge.com>

## Computational Fluid Dynamics

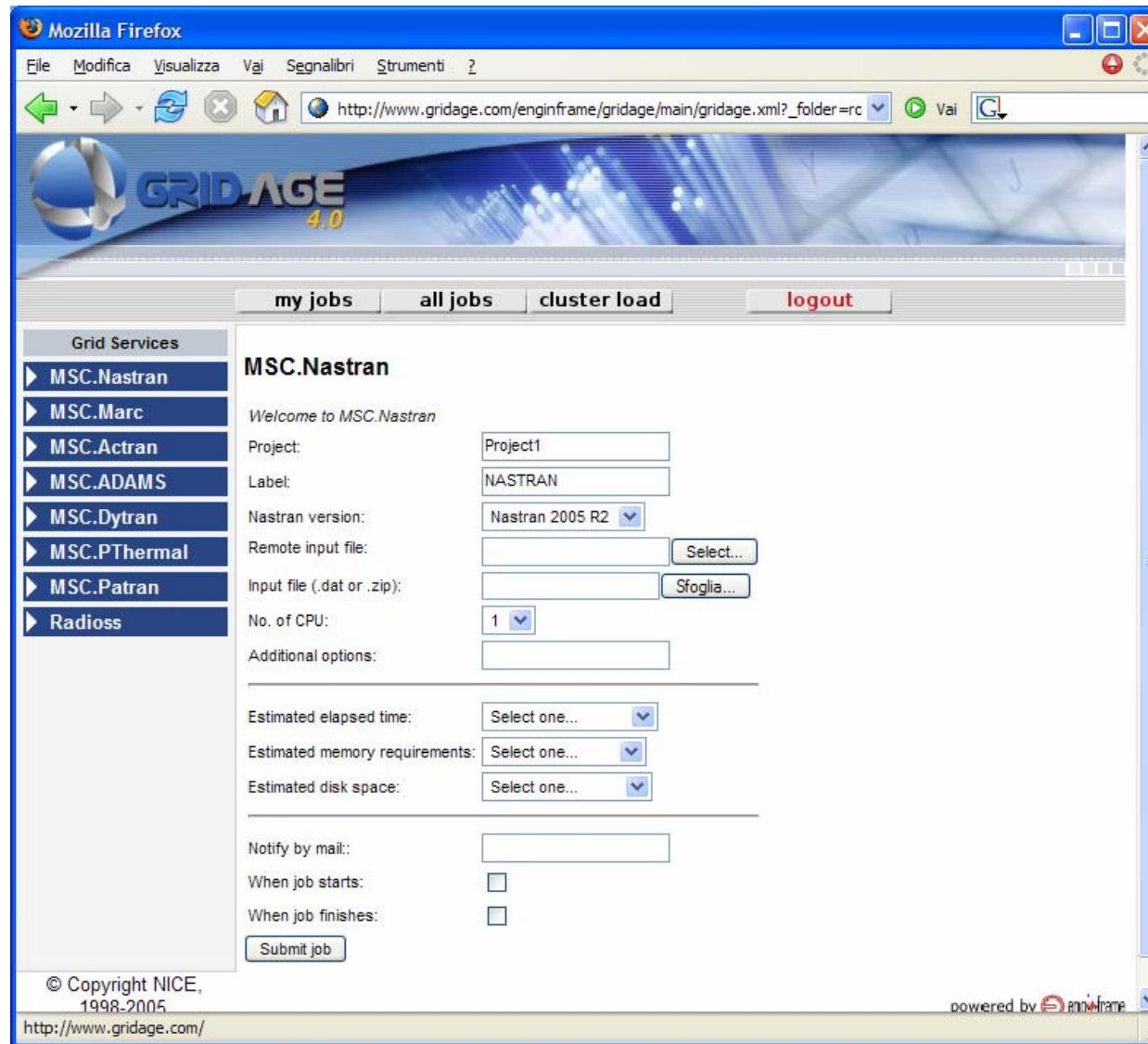
Vendor	Application	Type of Integration
EXA	Powerflow	Submission, Checkpoint
Metacomp	CFD++	Submission, Checkpoint
Fluent	Fluent	Submission, MPI Parallel, GUI for convergence
Ricardo	Vectis	Submission, MPI Parallel, Multi-step
Ricardo	Wave	Submission

## Finite Element Analysis

Vendor	Application	Type of Integration
Altair	Optistruct	Submission
HKS	Abaqus	Submission
MSC	Marc	Submission, MPI Parallel
MSC	Nastran	Submission, MPI Parallel

## Crash Simulation

Vendor	Application	Type of Integration
Mecalog	Radioss	Submission, MPI Parallel
Livermore	LS-Dyna	MPI Parallel, Checkpoint
ESI	PAM/Crash	Submission
MSC	Dytran	Submission



EnginFrame Mechanical Design Automation demo site! - Microsoft Internet Explorer

enginframe MECHANICAL GRID PORTAL

My jobs | My data | Cluster load | Logout

**Service offerings**

- LIBRARY definition
- Mechanical FEA services
- Mechanical CFD services
- Mechanical Crash services

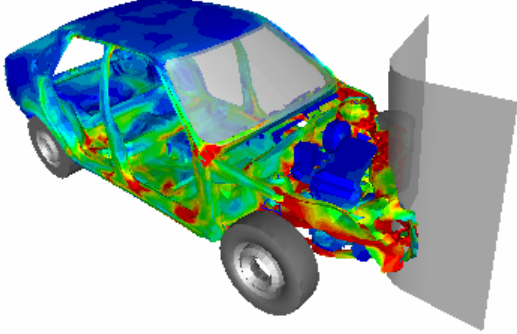
**Directory contents - Isdyna simulation**

Destroy

Toggle select

<input checked="" type="checkbox"/>	<a href="#">lsdyna.txt</a>	3792	<input checked="" type="checkbox"/>	<a href="#">car.vtf</a>	2518176
	Dec 20, 2004 12:25:28 PM			Dec 20, 2004 12:29:42 PM	

simulation



Frame: 9/9  
Step: 5

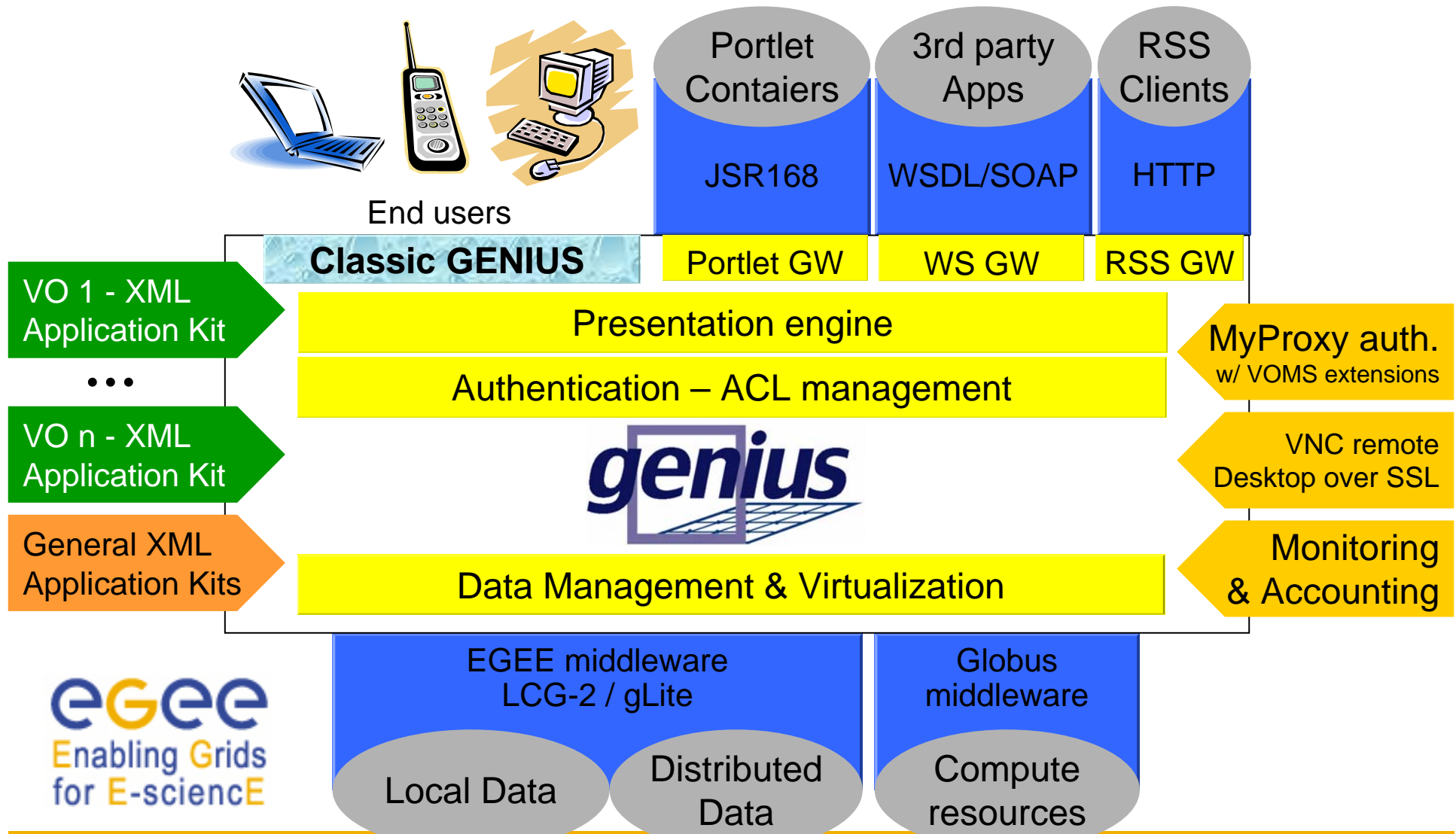
ID	Time	Status	Host	Name
<a href="#">26004</a>	Dec 20 12:23	DONE	<a href="#">antilla</a>	lsdyna simulation

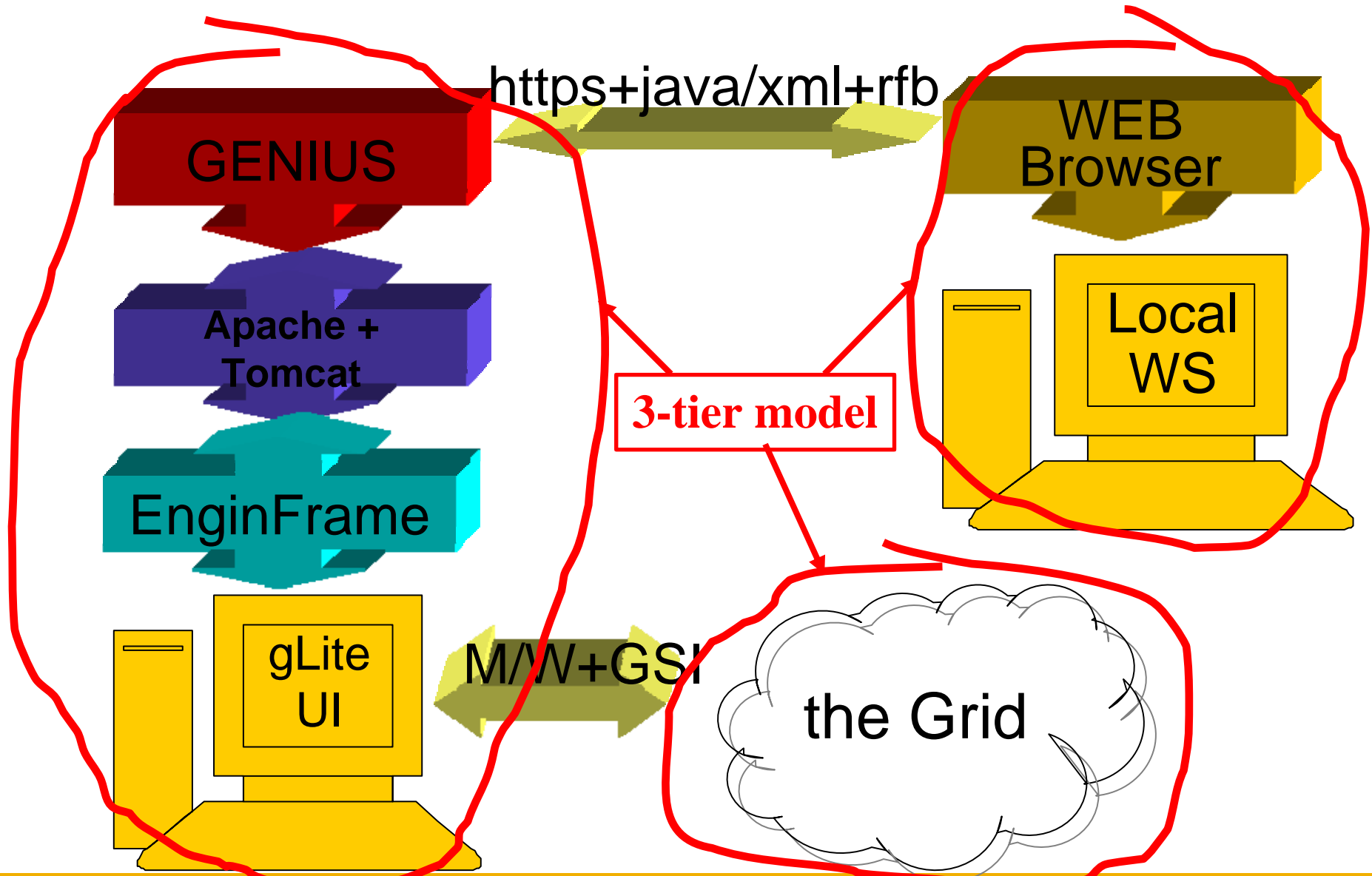
**Resource usage:** CPU: 105.5s.

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- **Powered by EnginFrame 4.1 !!**
- **The Stack on the User Interface:**
  - Apache + Mod\_JK2 ;
  - Mod\_SSL for secure encrypted connections ;
  - Tomcat as servlets container ;
  - EnginFrame 4.1.1 as core of 3-tier model
- **Thanks to New EF 4.1.1 features, NOW GENIUS Portal can export its services in JSR168 as portlets!**
- **New Flexibility of EF 4.1.1 improves the ways to write the code for grid integrations: plugins as independent modules**
- **Improved virtualization of Remote File Browsing**
- **A power GridML has been created for Job details**
- **Available the MyProxy Applet for MyProxy Inizialization!**





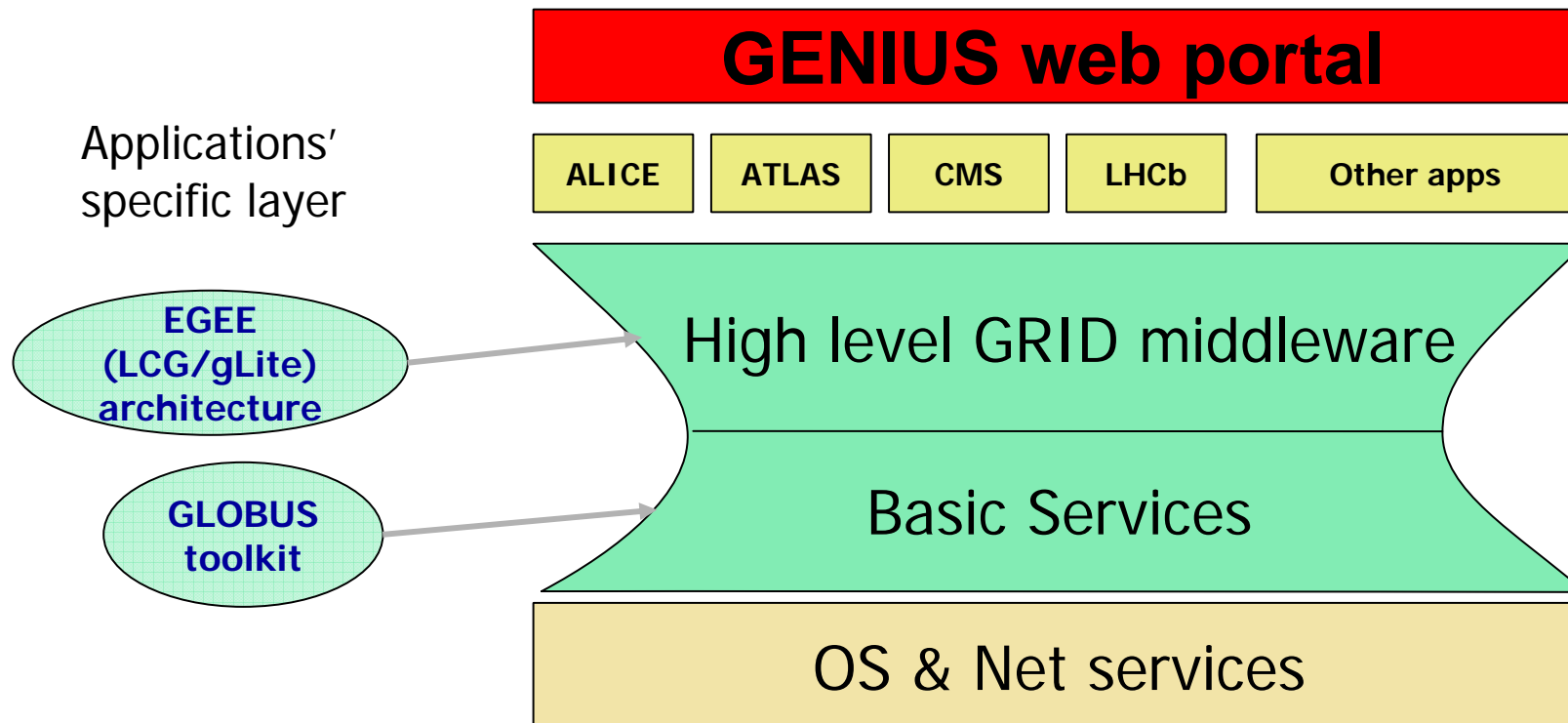


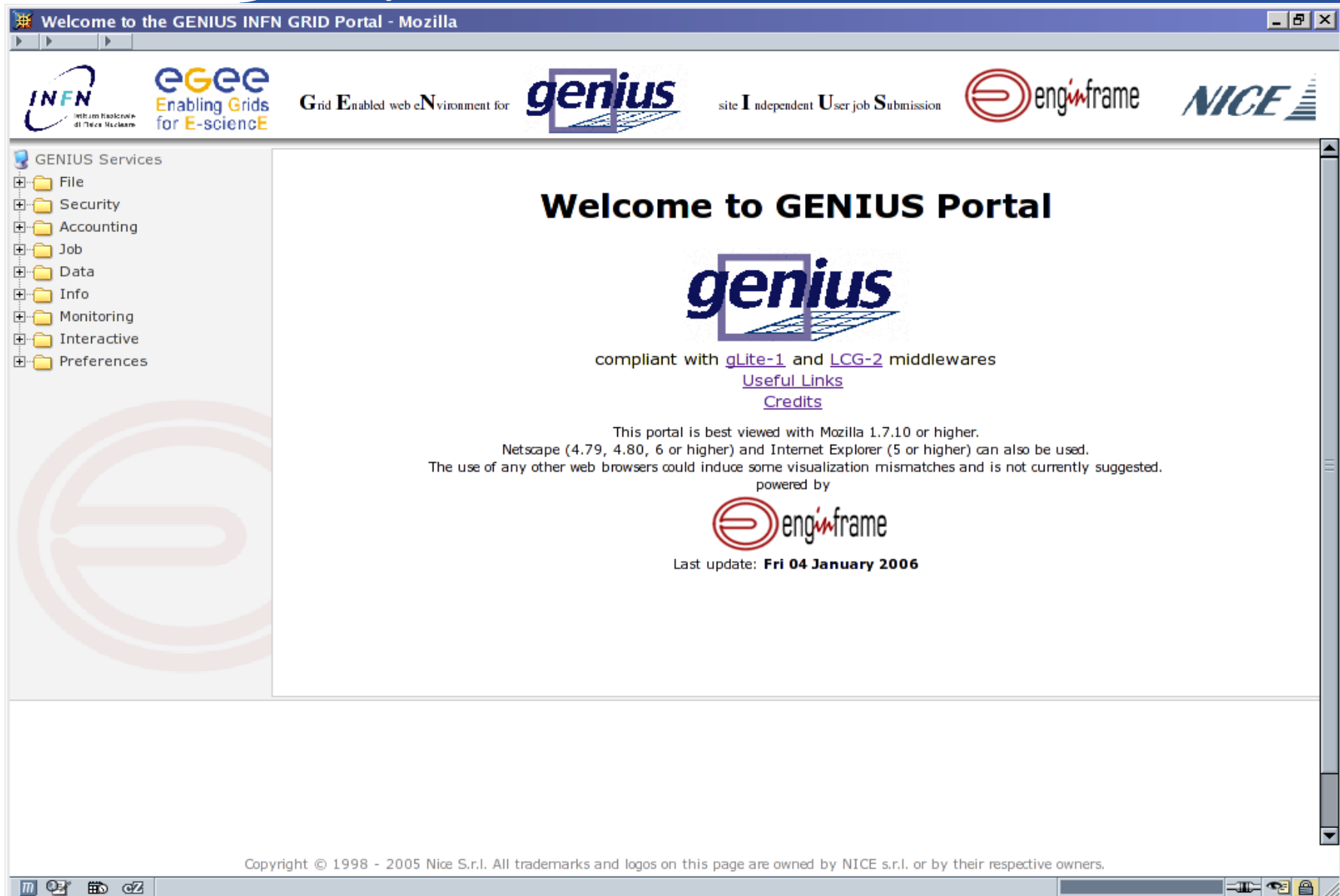
## GENIUS

**G**rid **E**nabled web **e**nvironment for site **I**ndependent

**U**ser job **S**ubmission

## INFN / NICE Collaboration







Welcome to the GENIUS INFN GRID Portal - Mozilla



 Grid Enabled web Environment for 
 site Independent User job Submission
 


**GENIUS Services**

- File
  - Create a File
  - View/Edit a File
  - Copy/Rename a File/Dir
  - Delete Files/Dirs
  - Create a Directory
  - Upload a TAR ball
  - Upload a File
  - Change Permissions
  - Show the Environment
- Security
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

**Welcome to GENIUS Portal**



compliant with [gLite-1](#) and [LCG-2](#) middlewares

[Useful Links](#)  
[Credits](#)

This portal is best viewed with Mozilla 1.7.10 or higher.  
Netscape (4.79, 4.80, 6 or 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.

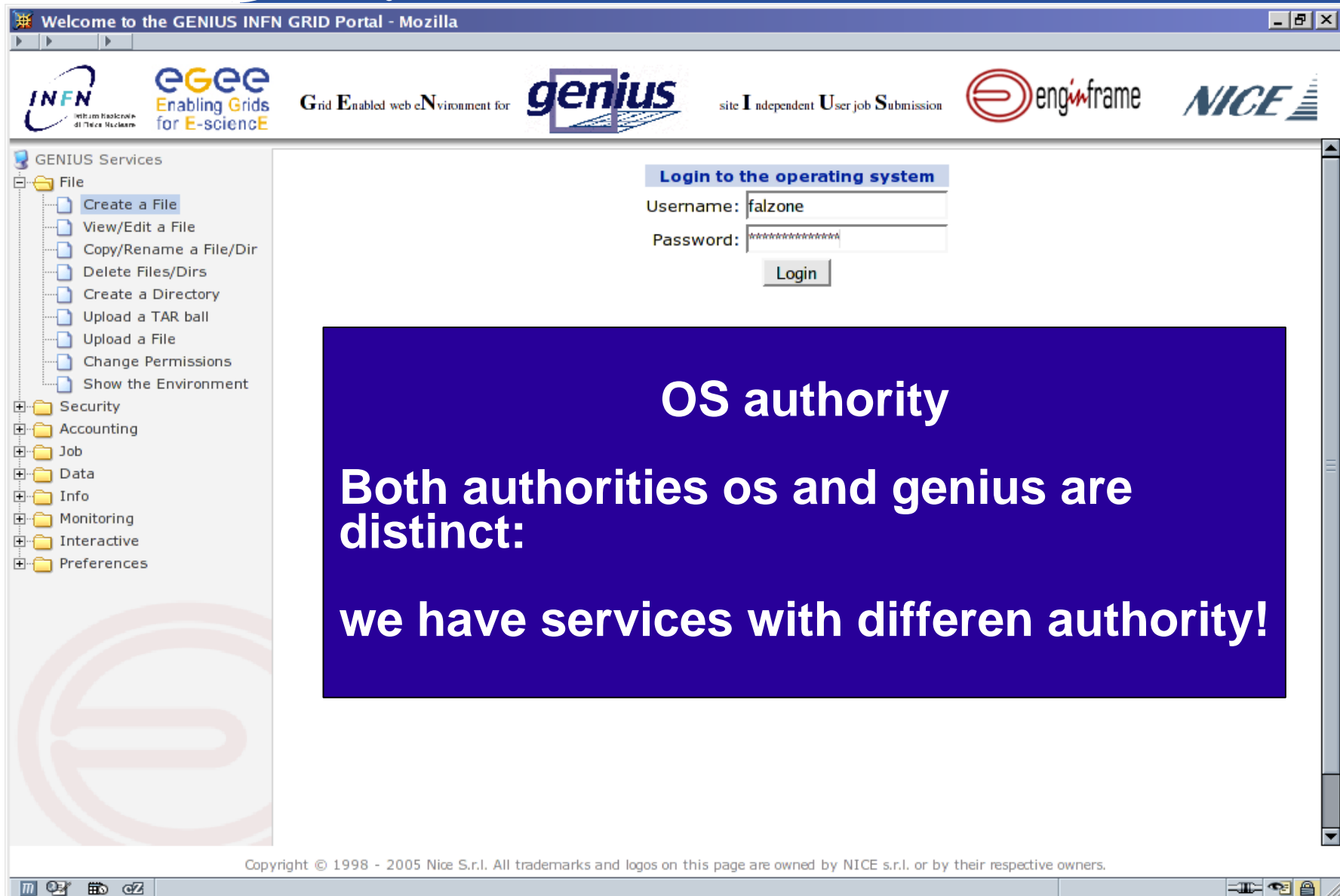
powered by 

Last update: **Fri 04 January 2006**

**SSL Encryption !**

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javascript: navigation.o(1);

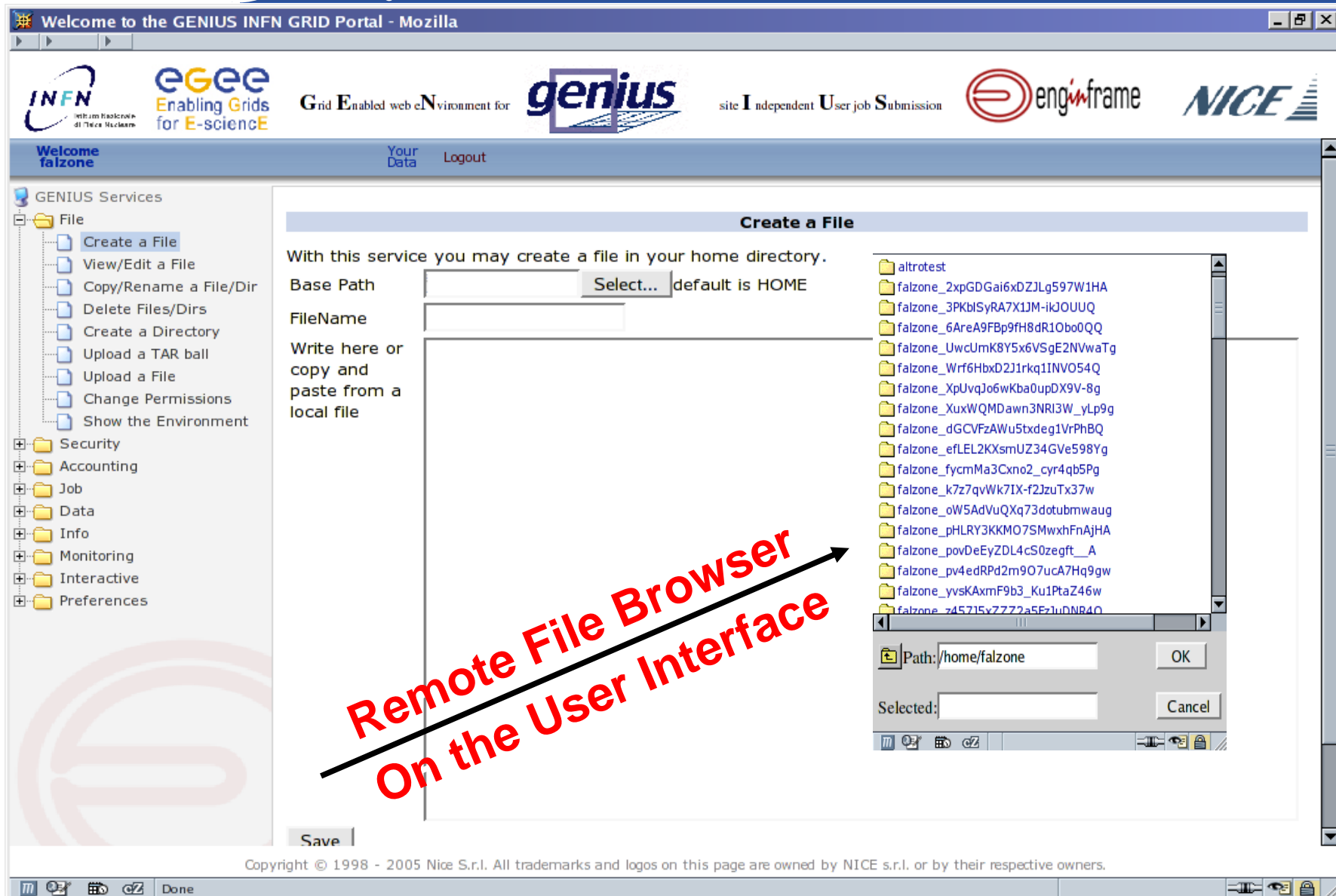


**OS authority**






**Both authorities os and genius are distinct:**

**we have services with differen authority!**

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Welcome to the GENIUS INFN GRID Portal - Mozilla

Welcome falzone [Your Data](#) [Logout](#)

GENIUS Services

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**Create a File**

With this service you may create a file in your home directory.

Base Path  default is HOME

FileName

Write here or copy and paste from a local file

Path: /home/falzone

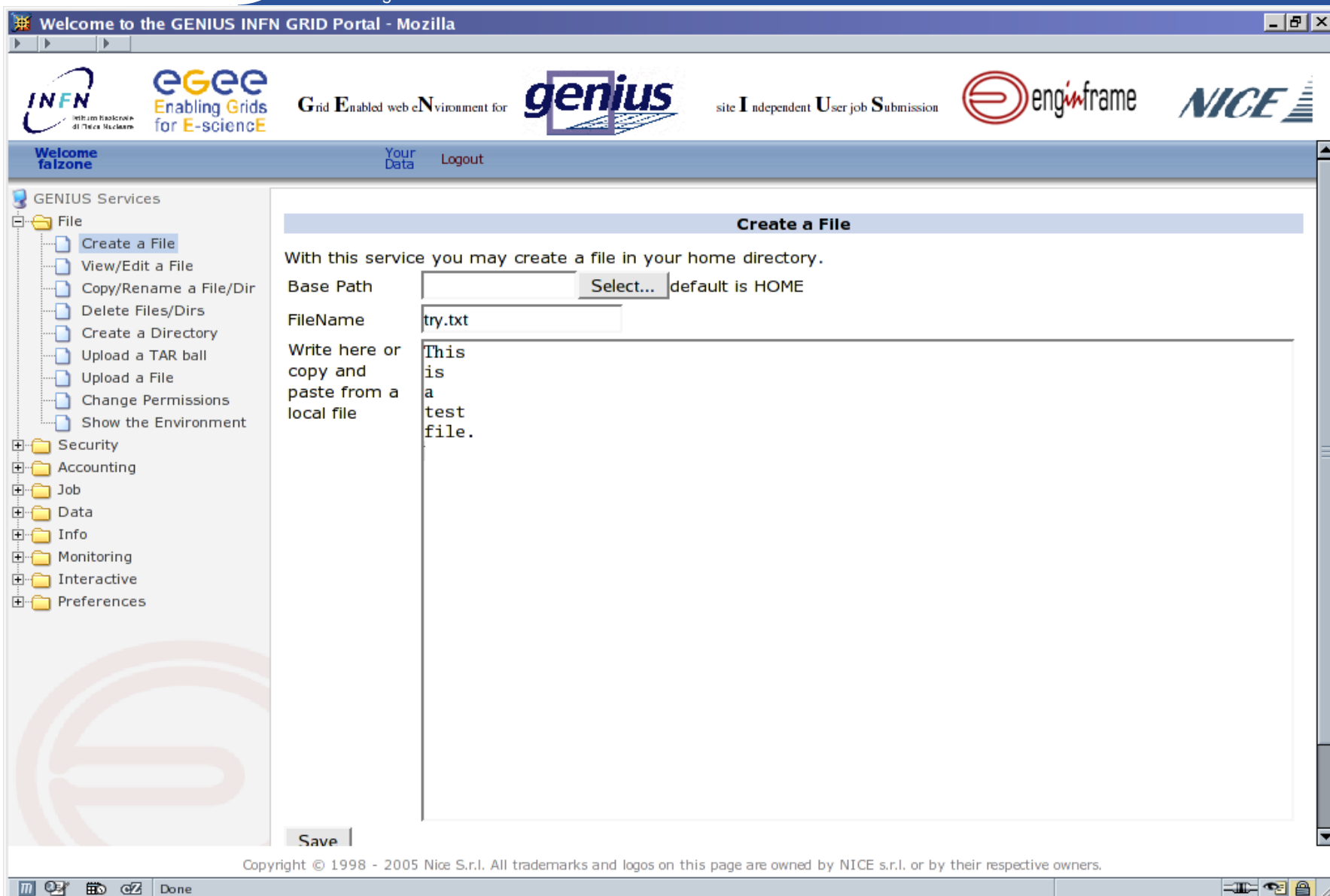
Selected:

**Remote File Browser  
On the User Interface**






Save

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Grid Enabled web Environment for site Independent User job Submission

Welcome falzone [Your Data](#) [Logout](#)

**GENIUS Services**

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**Create a File**

With this service you may create a file in your home directory.

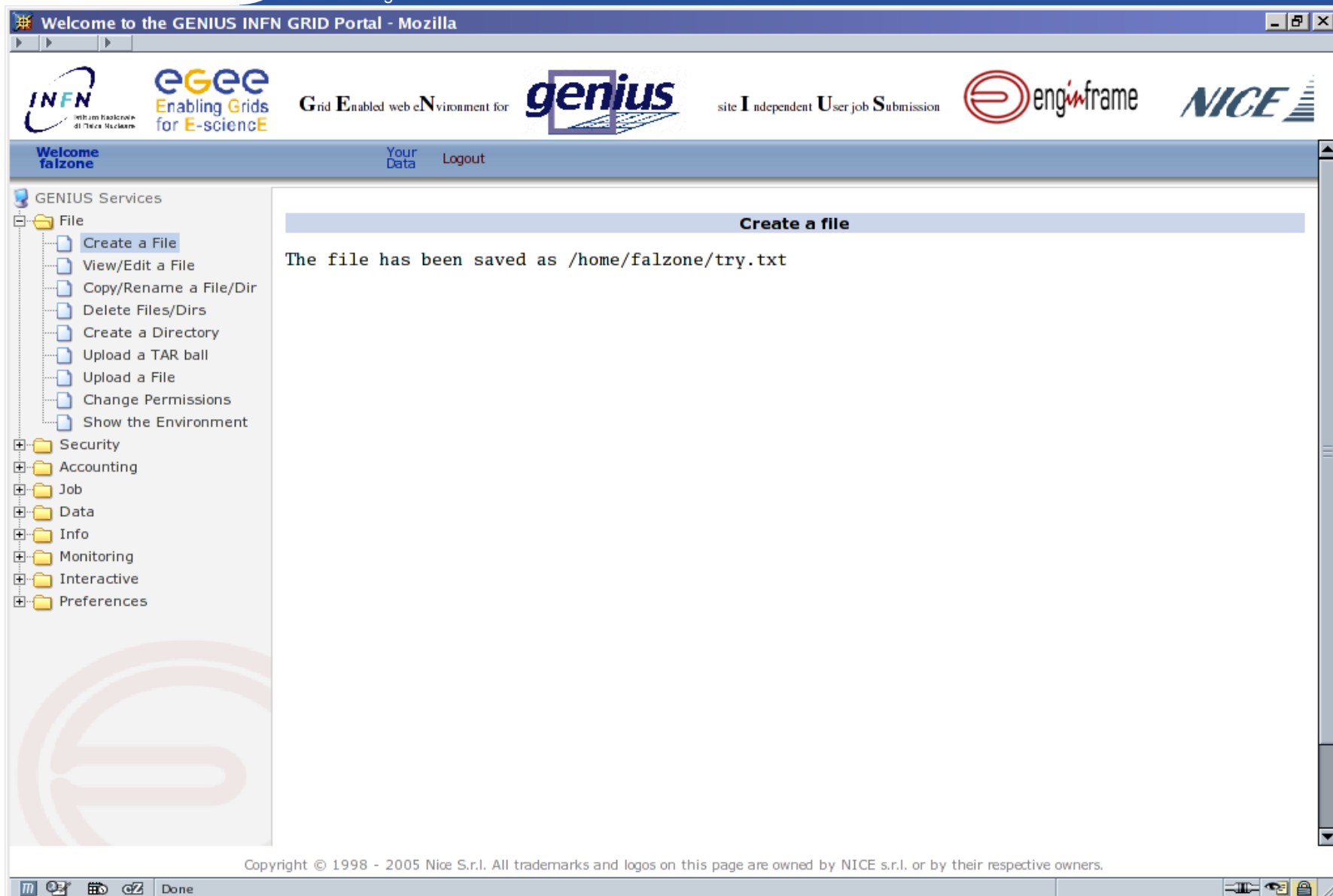
Base Path   default is HOME

FileName

Write here or copy and paste from a local file

```
This
is
a
test
file.
```

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Grid Enabled web eNvironment for **genius** site Independent User job Submission **enginframe** **NICE**

Welcome **falzone** [Your Data](#) [Logout](#)

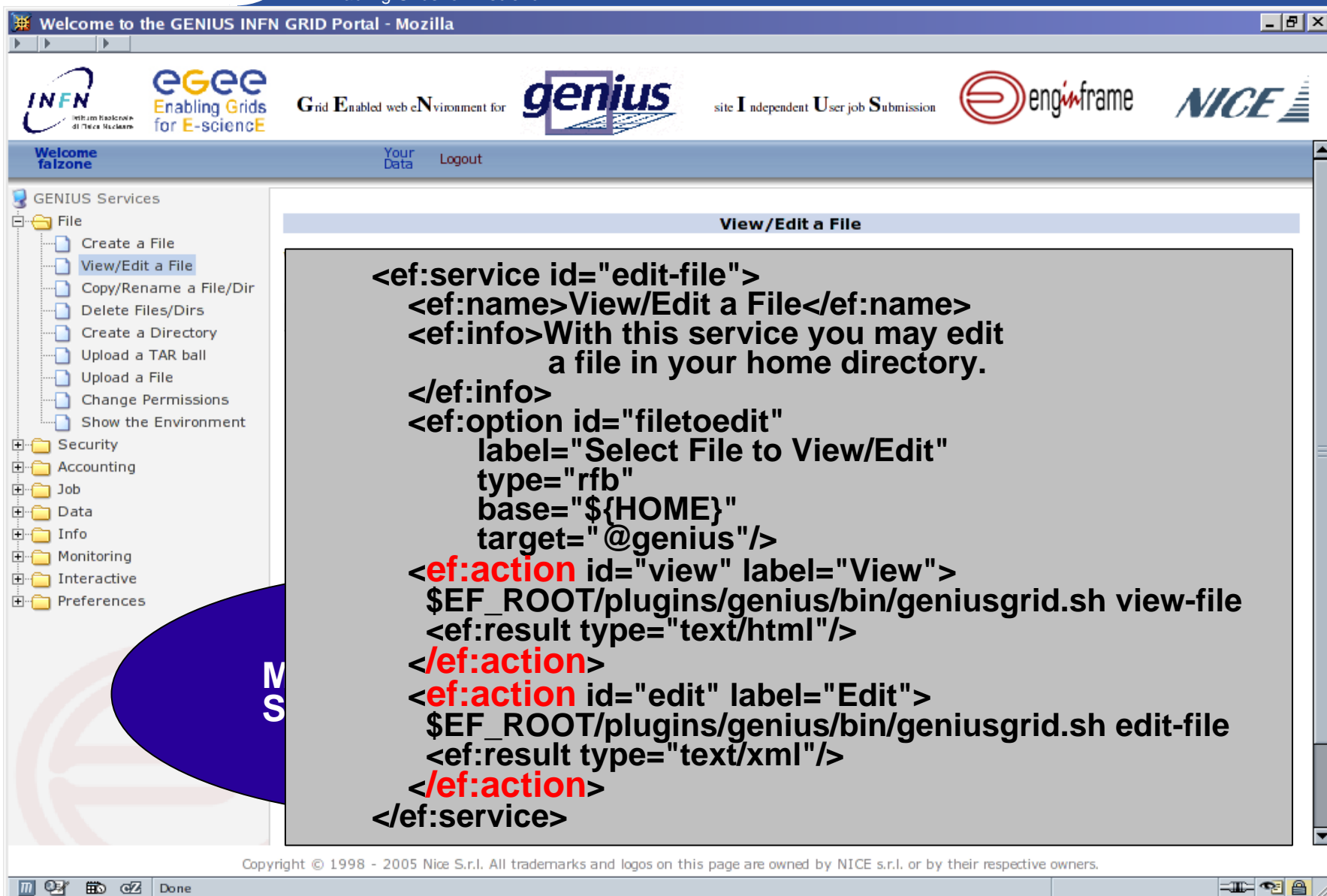
GENIUS Services

- File
  - Create a File**
  - View/Edit a File
  - Copy/Rename a File/Dir
  - Delete Files/Dirs
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**Create a file**

The file has been saved as `/home/falzone/try.txt`

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The screenshot shows a web browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla". The page features several logos at the top: INFN, eGEE (Enabling Grids for E-science), genius (Grid Enabled web Environment for site Independent User job Submission), enginframe, and NICE. Below the logos, there is a navigation bar with "Welcome falzone", "Your Data", and "Logout".

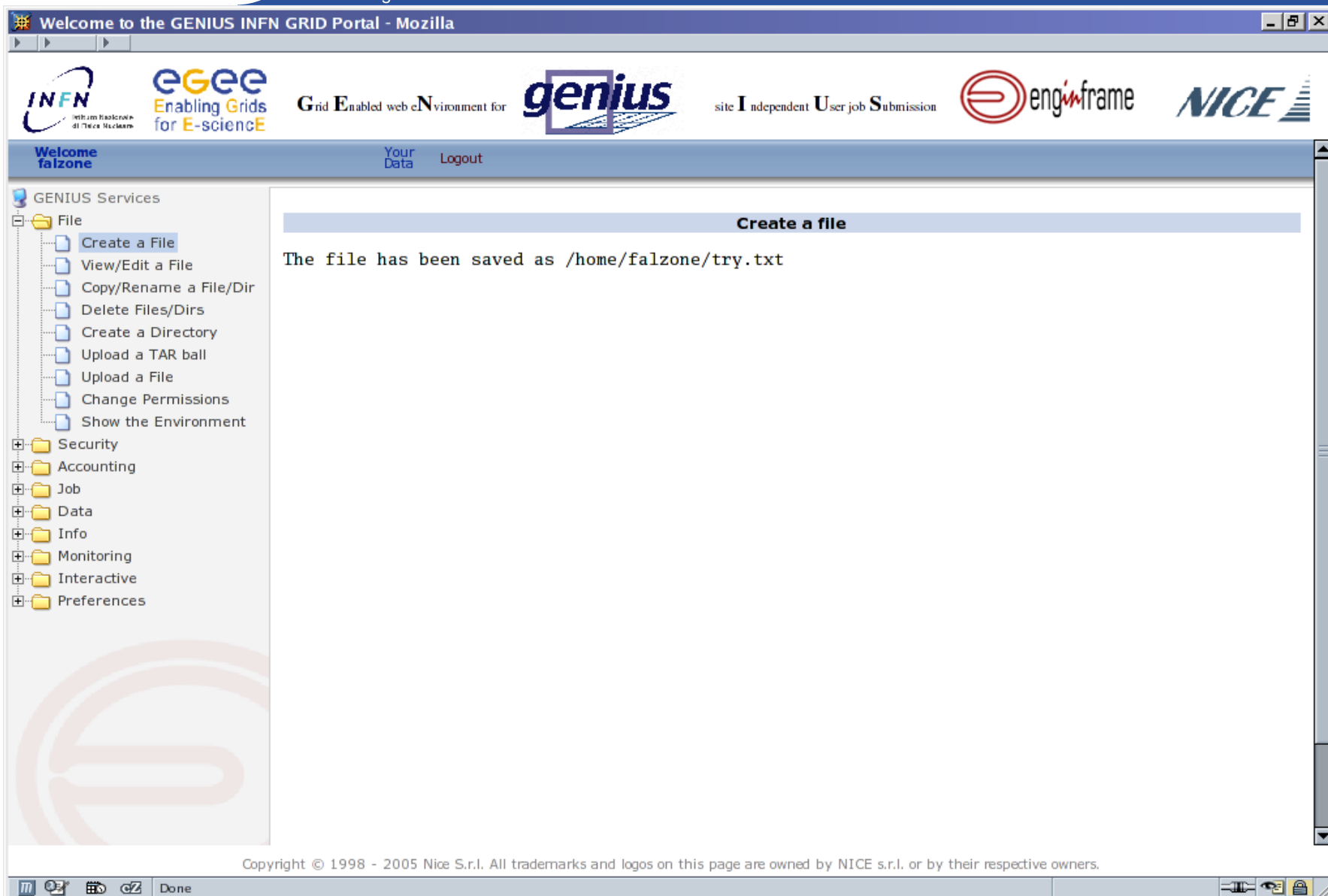
The main content area is titled "View/Edit a File" and displays the following XML service definition:

```






<ef:service id="edit-file">
  <ef:name>View/Edit a File</ef:name>
  <ef:info>With this service you may edit
    a file in your home directory.
  </ef:info>
  <ef:option id="filetoedit"
    label="Select File to View/Edit"
    type="rfb"
    base="{HOME}"
    target="@genius"/>
  <ef:action id="view" label="View">
    $EF_ROOT/plugins/genius/bin/geniusgrid.sh view-file
  <ef:result type="text/html"/>
</ef:action>
  <ef:action id="edit" label="Edit">
    $EF_ROOT/plugins/genius/bin/geniusgrid.sh edit-file
  <ef:result type="text/xml"/>
</ef:action>
</ef:service>

```

At the bottom of the browser window, a copyright notice reads: "Copyright © 1998 - 2005 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners."



Welcome to the GENIUS INFN GRID Portal - Mozilla

Grid Enabled web Environment for **genius** site Independent User job Submission

Welcome **falzone** [Your Data](#) [Logout](#)

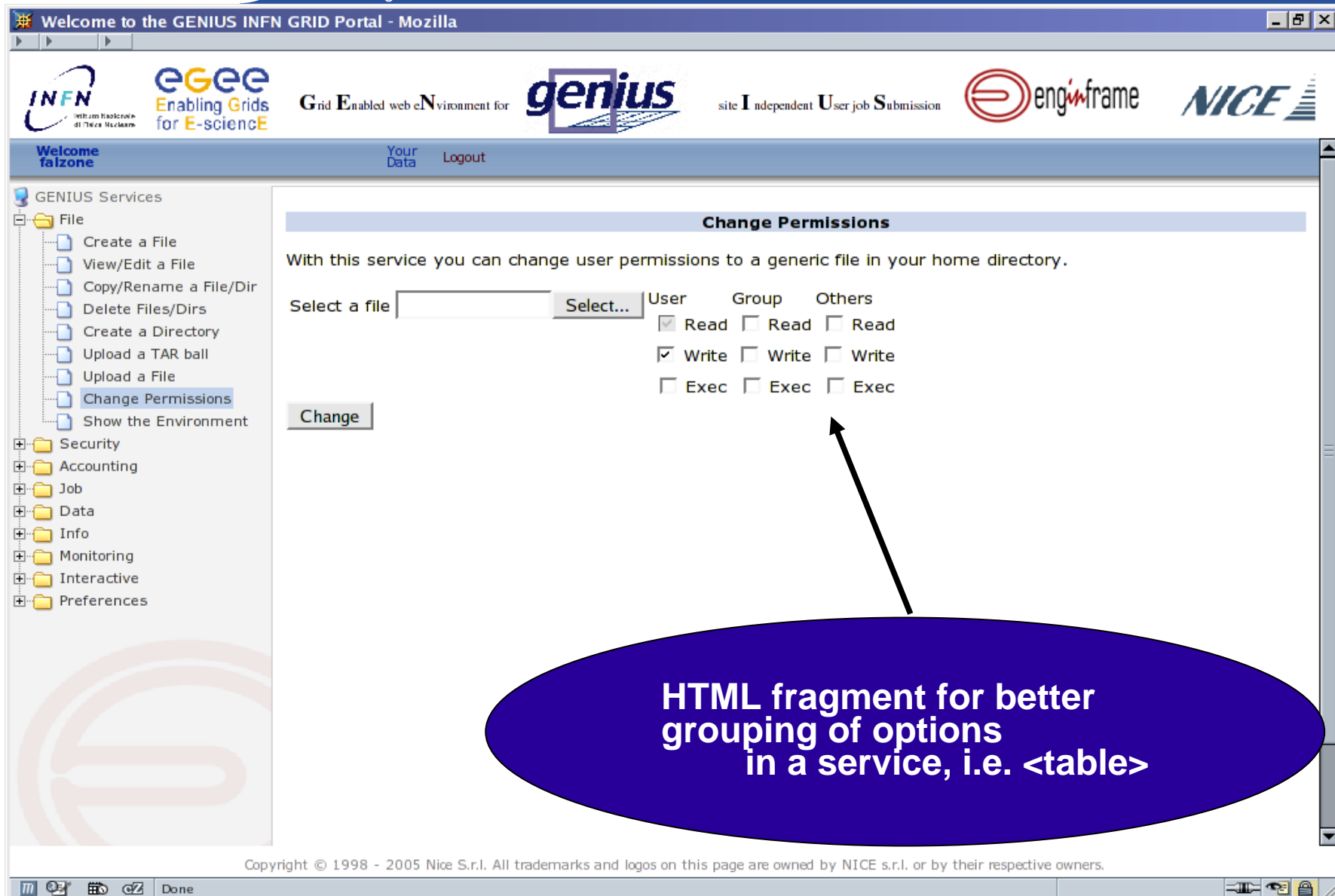
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Welcome to the GENIUS INFN GRID Portal - Mozilla

Welcome falzone    Your Data    Logout

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### Change Permissions

With this service you can change user permissions to a generic file in your home directory.

Select a file

User	Group	Others
<input checked="" type="checkbox"/> Read	<input type="checkbox"/> Read	<input type="checkbox"/> Read
<input checked="" type="checkbox"/> Write	<input type="checkbox"/> Write	<input type="checkbox"/> Write
<input type="checkbox"/> Exec	<input type="checkbox"/> Exec	<input type="checkbox"/> Exec

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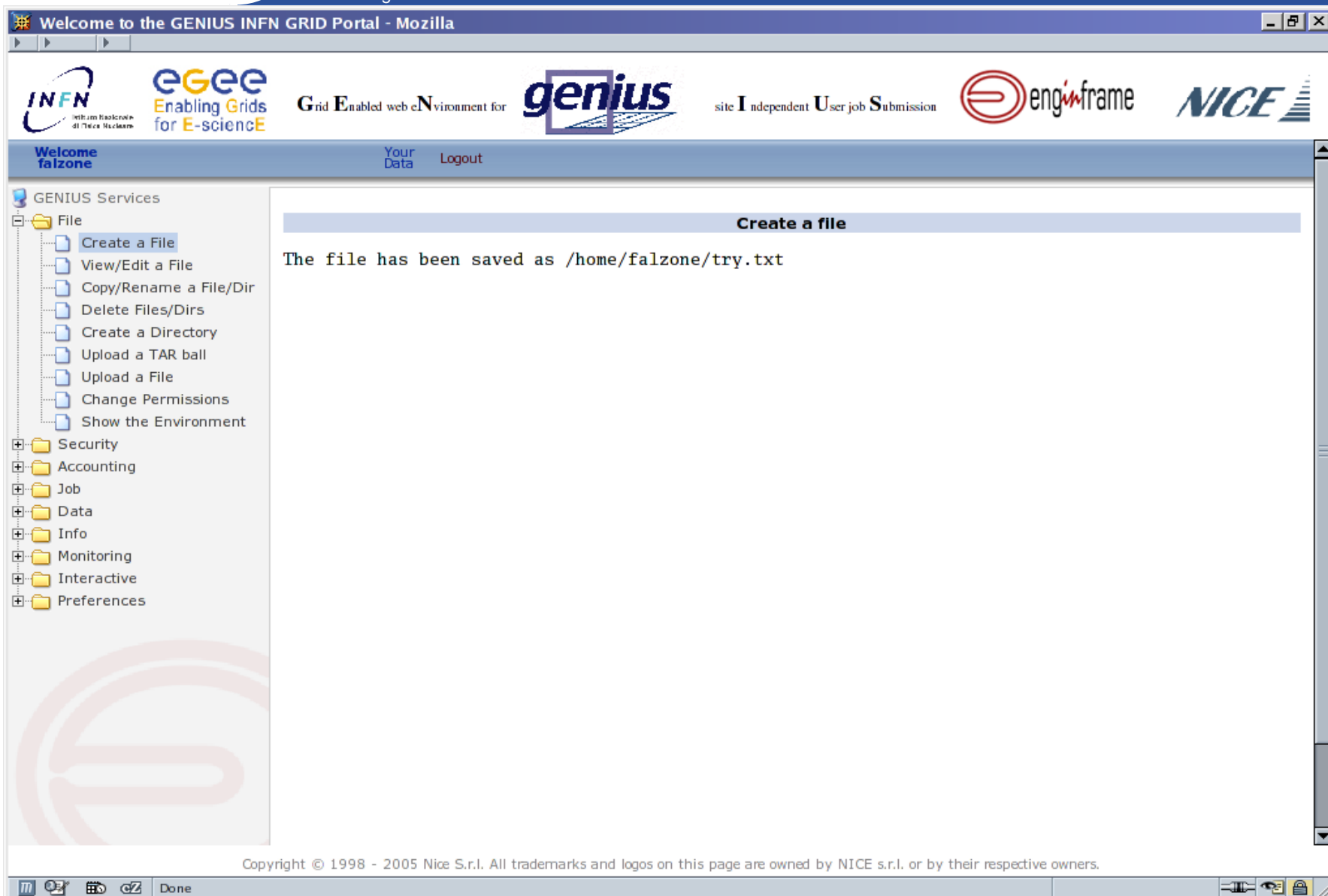
HTML fragment for better grouping of options in a service, i.e. <table>



# GENIUS: Grid Authentication with Myproxy

Enabling Grids for E-science

**myproxy-get-delegation**



Welcome to the GENIUS INFN GRID Portal - Mozilla

INFN **eGEE** Enabling Grids for E-science  
Grid Enabled web Environment for **genius** site Independent User job Submission **enginframe** **NICE**

Welcome **falzone** [Your Data](#) [Logout](#)

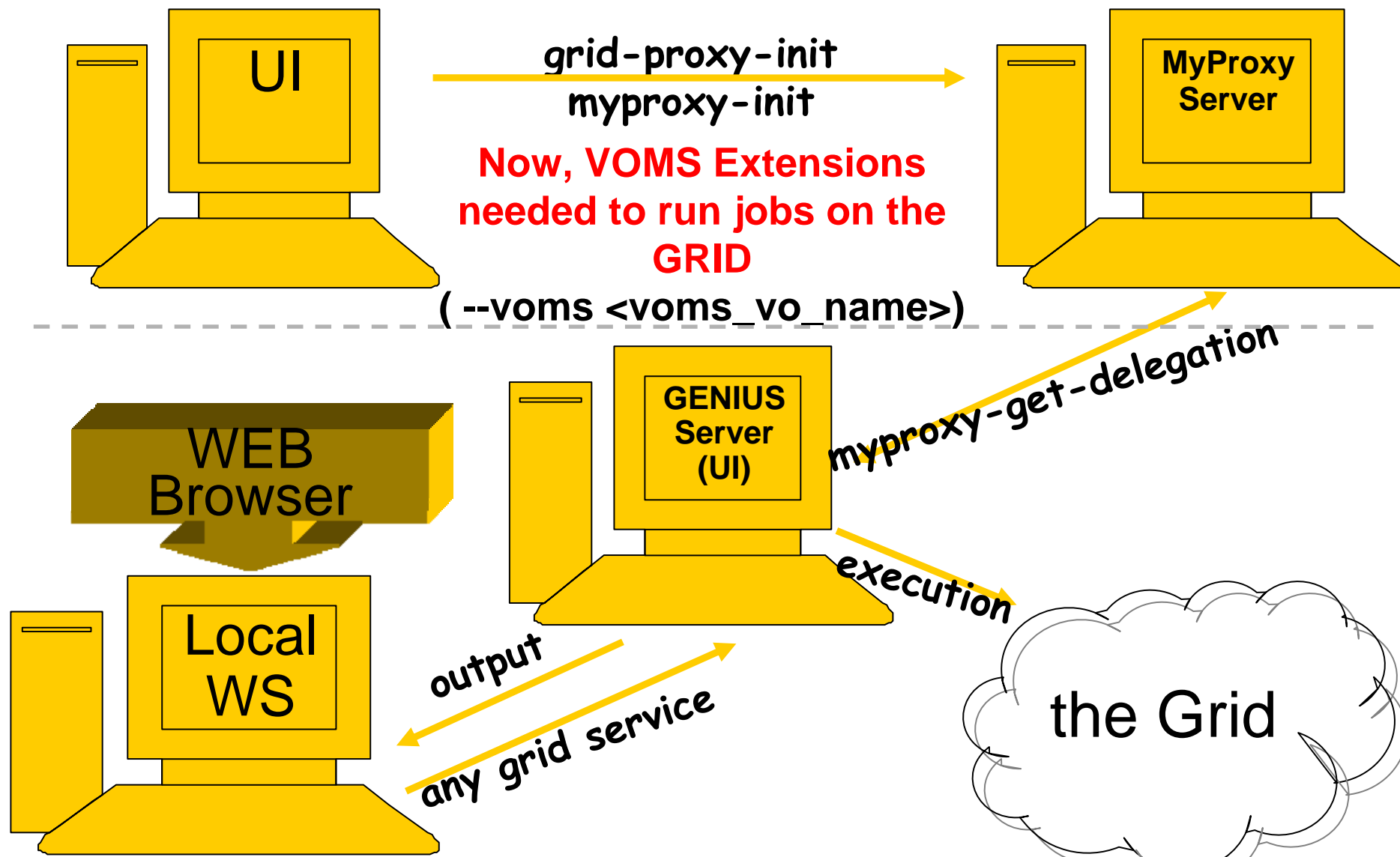
GENIUS Services

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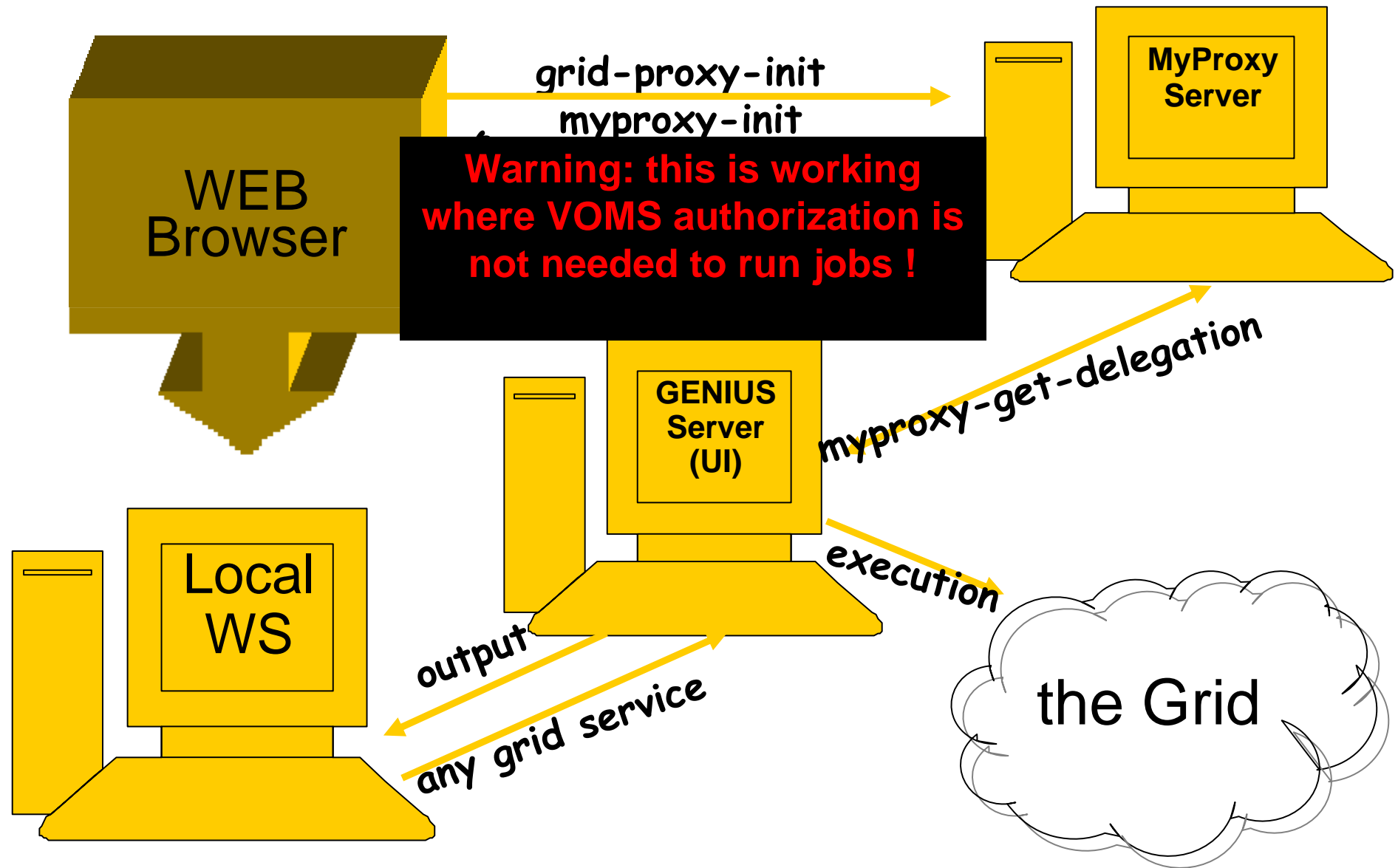
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Welcome to the GENIUS INFN GRID Portal - Mozilla

Logos: INFN, eGEE, genius, enginframe, NICE

Grid Enabled web eNvironment for site Independent User job Submission

**GENIUS Services**

- File
- Security
  - MyProxy
    - MyProxy Init**
    - Info on MyProxy
  - VOMS Exts
    - Info on proxy
    - Change OS Password
    - Remove proxy & Logout
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

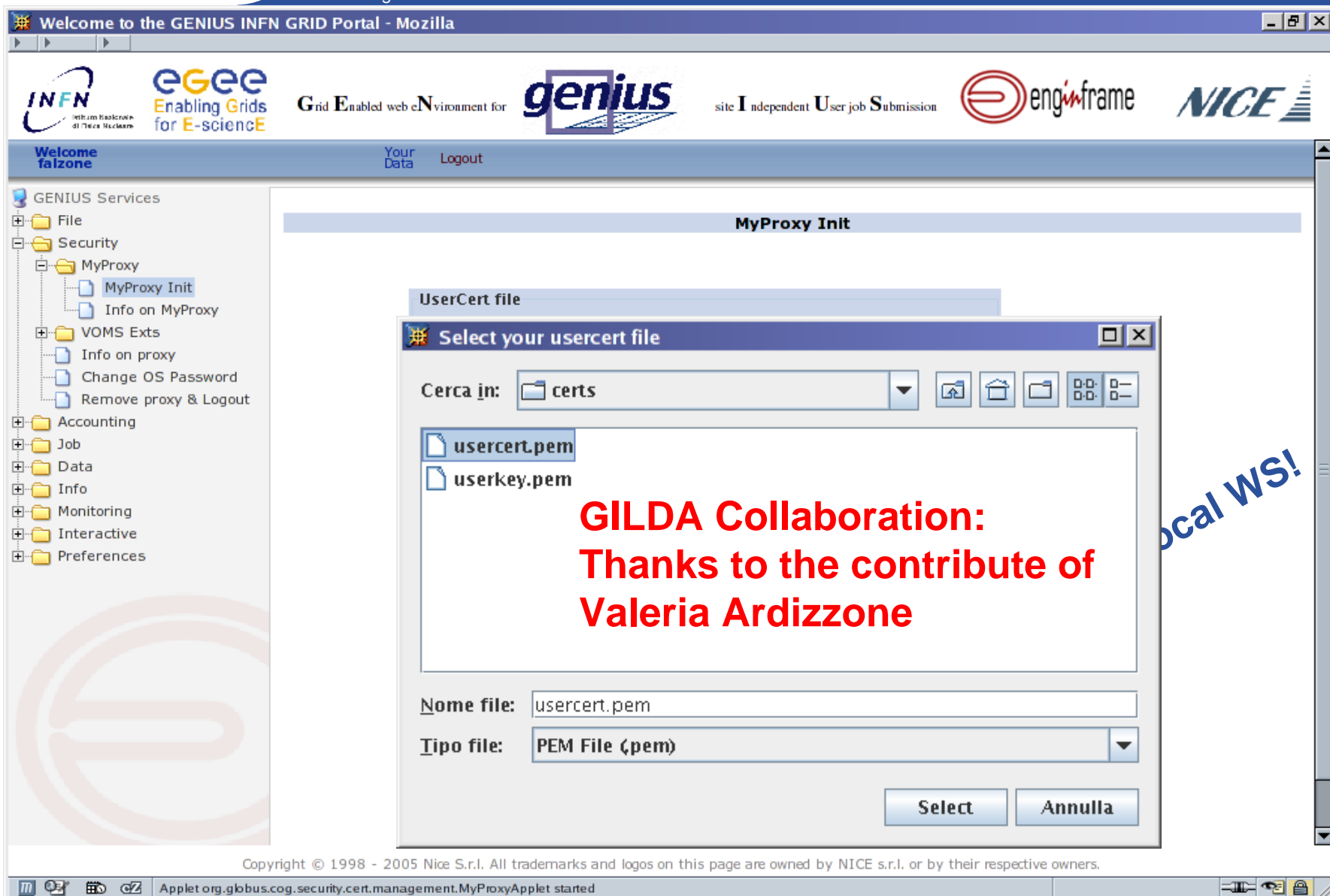
**Login to the operating system**

Username:

Password:

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MyProxy Init



The screenshot shows a web browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla". The page header includes logos for INFN, eGEE, genius, enginframe, and NICE. A navigation bar contains "Welcome falzone", "Your Data", and "Logout". A left sidebar lists "GENIUS Services" such as File, Security, MyProxy, VOMS Exts, Accounting, Job, Data, Info, Monitoring, Interactive, and Preferences. The main content area is titled "MyProxy Init" and features a "UserCert file" selection dialog. The dialog shows a search path of "certs" and lists two files: "usercert.pem" and "userkey.pem". The "Nome file" field contains "usercert.pem" and the "Tipo file" dropdown is set to "PEM File (.pem)". "Select" and "Annulla" buttons are at the bottom of the dialog. A red text overlay reads "GILDA Collaboration: Thanks to the contribute of Valeria Ardizzone". A blue diagonal watermark "Local WS!" is visible on the right side of the dialog. The footer of the browser window contains the copyright notice: "Copyright © 1998 - 2005 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners." and the address bar shows "Applet org.globus.cog.security.cert.management.MyProxyApplet started".



Welcome to the GENIUS INFN GRID Portal - Mozilla



Welcome falzone    Your Data    Logout

**GENIUS Services**

- File
- Security
  - MyProxy
    - MyProxy Init**
    - Info on MyProxy
  - VOMS Exts
    - Info on proxy
    - Change OS Password
    - Remove proxy & Logout
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

**MyProxy Init**

**UserCert file**

**UserKey file**






**Applet Time Life**

Available time:

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Applet org.globus.cog.security.cert.management.MyProxyApplet started

Welcome to the GENIUS INFN GRID Portal - Mozilla

Grid Enabled web Environment for site Independent User job Submission

Welcome falzone [Your Data](#) [Logout](#)

**GENIUS Services**

- File
- Security
  - MyProxy
    - MyProxy Init**
    - Info on MyProxy
  - VOMS Exts
    - Info on proxy
    - Change OS Password
    - Remove proxy & Logout
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

**MyProxy Init**






MyProxy Settings		Action
MyProxy host:	grid001.ct.infn.it	<input type="button" value="Init"/>
MyProxy Account Name:	falzone	<input type="button" value="Info on myproxy"/>
Grid PassPhrase:	<input type="password"/>	<input type="button" value="Destroy"/>
MyProxy PassPhrase:	<input type="password"/>	<input type="button" value="Delete Pem's files"/>
MyProxy PassPhrase Confirmation:	<input type="password"/>	
Lifetime:	7	

**Applet Time Life**  
Available time:

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Applet org.globus.cog.security.cert.management.MyProxyApplet started

Welcome to the GENIUS INFN GRID Portal - Mozilla

Grid Enabled web eNvironment for site Independent User job Submission

Welcome falzone [Your Data](#) [Logout](#)

GENIUS Services

- File
- Security
  - MyProxy
    - MyProxy Init**
    - Info on MyProxy
  - VOMS Exts
    - Info on proxy
    - Change OS Password
    - Remove proxy & Logout
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

### MyProxy Init

MyProxy Settings		Action
MyProxy host:	grid001.ct.infn.it	<input type="button" value="Init"/>
MyProxy Account Name:	falzone	<input type="button" value="Info on myproxy"/>
Grid PassPhrase:	*****	<input type="button" value="Destroy"/>
MyProxy PassPhrase:	*****	<input type="button" value="Delete Pem's files"/>
MyProxy PassPhrase Confirmation:	*****	
Lifetime:	7	

Applet Time Life

Available time:

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Applet org.gbbus.cog.security.cert.management.MyProxyApplet started

Welcome to the GENIUS INFN GRID Portal - Mozilla







Grid Enabled web eNvironment for site Independent User job Submission

Welcome falzone [Your Data](#) [Logout](#)

GENIUS Services

- File
- Security
  - MyProxy
    - MyProxy Init
    - Info on MyProxy
  - VOMS Exts


**MyProxy Init**

MyProxy Settings

MyProxy host:

Action

**Important Message**

 You have a proxy on grid001.ct.infn.it / C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it

Interactive

Preferences

End Prev Next Reset

Applet Time Life






Available time:

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Applet org.gbbus.cog.security.cert.management.MyProxyApplet started



Welcome to the GENIUS INFN GRID Portal - Mozilla

Grid Enabled web eNvironment for site Independent User job Submission

Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

**GENIUS Services**

- File
- Security
  - MyProxy
  - VOMS Ext
    - VOMS Proxy Init**
    - Destroy VOMS Proxy
    - Info on VOMS proxy
    - Info on proxy
    - Change OS Password
    - Remove proxy & Logout
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

**VOMS Proxy Init**

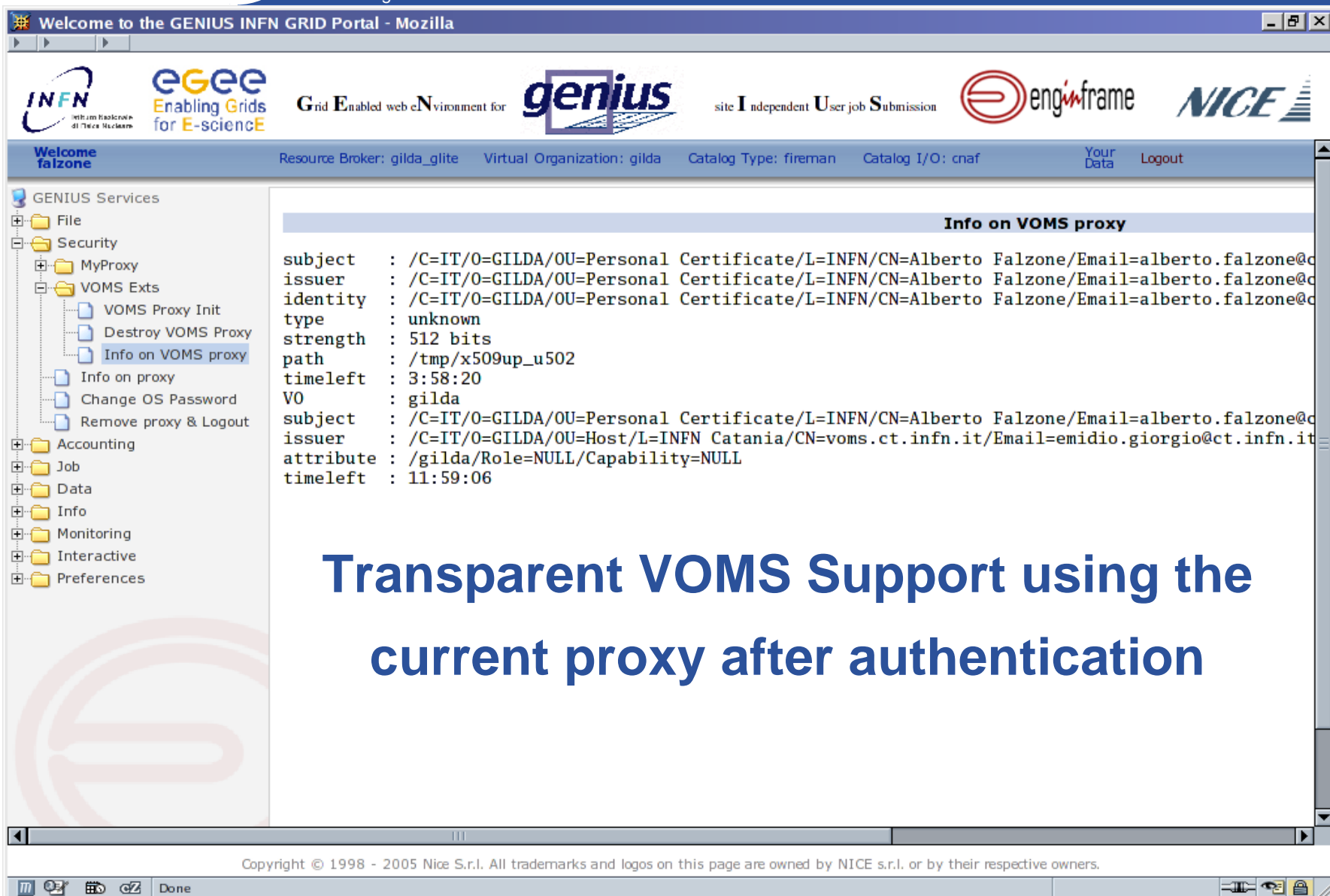
```

Your identity: /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone
Creating temporary proxy Done
Contacting voms.ct.infn.it:15001 [/C=IT/O=GILDA/OU=Host/L=INFN Catania/CN=voms.ct.infn.it/Email=er
Creating proxy Done






Warning: your certificate and proxy will expire Thu Jan 5 02:58:19 2006
which is within the requested lifetime of the proxy
    
```

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Welcome to the GENIUS INFN GRID Portal - Mozilla

Grid Enabled web eNvironment for site Independent User job Submission

Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

GENIUS Services

- File
- Security
  - MyProxy
  - VOMS Exts
    - VOMS Proxy Init
    - Destroy VOMS Proxy
    - Info on VOMS proxy
    - Info on proxy
    - Change OS Password
    - Remove proxy & Logout
- Accounting
- Job
- Data
- Info
- Monitoring
- Interactive
- Preferences

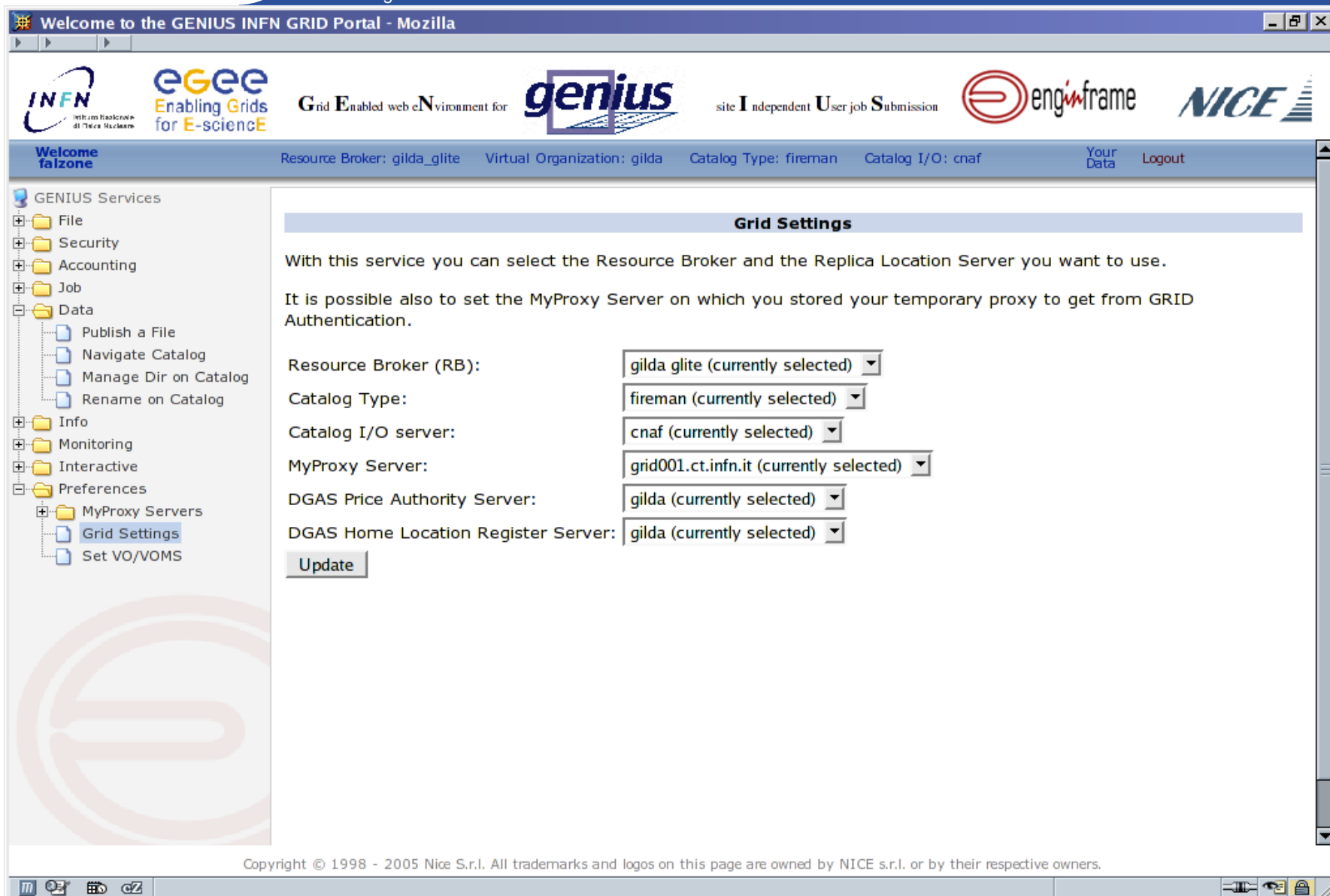
### Info on VOMS proxy

```






subject   : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it
issuer    : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it
identity  : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it
type      : unknown
strength  : 512 bits
path      : /tmp/x509up_u502
timeleft  : 3:58:20
VO        : gilda
subject   : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it
issuer    : /C=IT/O=GILDA/OU=Host/L=INFN Catania/CN=voms.ct.infn.it/Email=emidio.giorgio@ct.infn.it
attribute : /gilda/Role=NULL/Capability=NULL
timeleft  : 11:59:06
  
```

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## Transparent VOMS Support using the current proxy after authentication



Welcome to the GENIUS INFN GRID Portal - Mozilla

Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

### Grid Settings

With this service you can select the Resource Broker and the Replica Location Server you want to use.

It is possible also to set the MyProxy Server on which you stored your temporary proxy to get from GRID Authentication.

Resource Broker (RB):

Catalog Type:

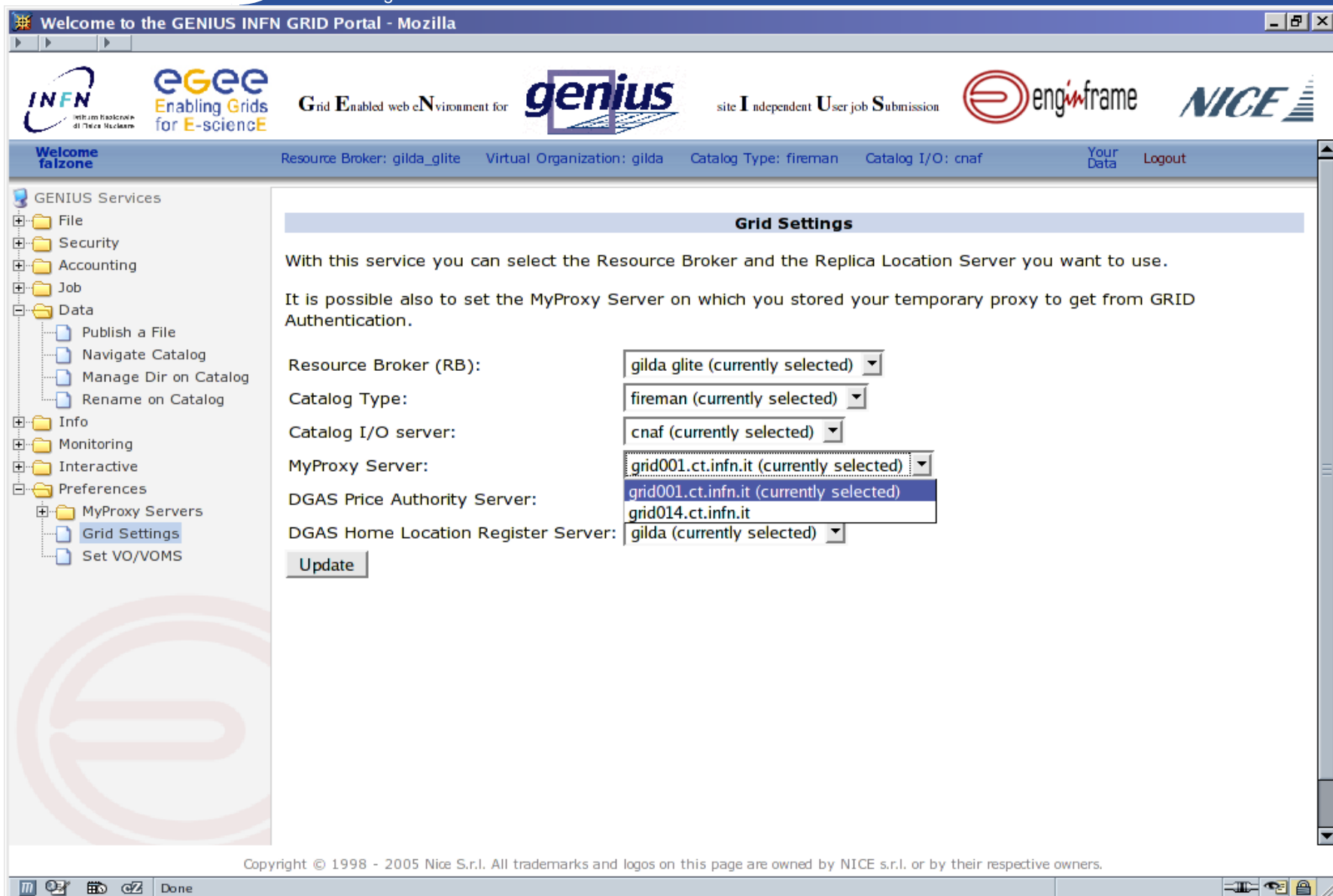
Catalog I/O server:

MyProxy Server:

DGAS Price Authority Server:

DGAS Home Location Register Server:

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Welcome to the GENIUS INFN GRID Portal - Mozilla

INFN eGEE Enabling Grids for E-science Grid Enabled web Environment for site Independent User job Submission enginframe NICE

Welcome falzone Resource Broker: gilda\_glite Virtual Organization: gilda Catalog Type: fireman Catalog I/O: cnaf Your Data Logout

### Grid Settings

With this service you can select the Resource Broker and the Replica Location Server you want to use.

It is possible also to set the MyProxy Server on which you stored your temporary proxy to get from GRID Authentication.

Resource Broker (RB): gilda glite (currently selected)

Catalog Type: fireman (currently selected)

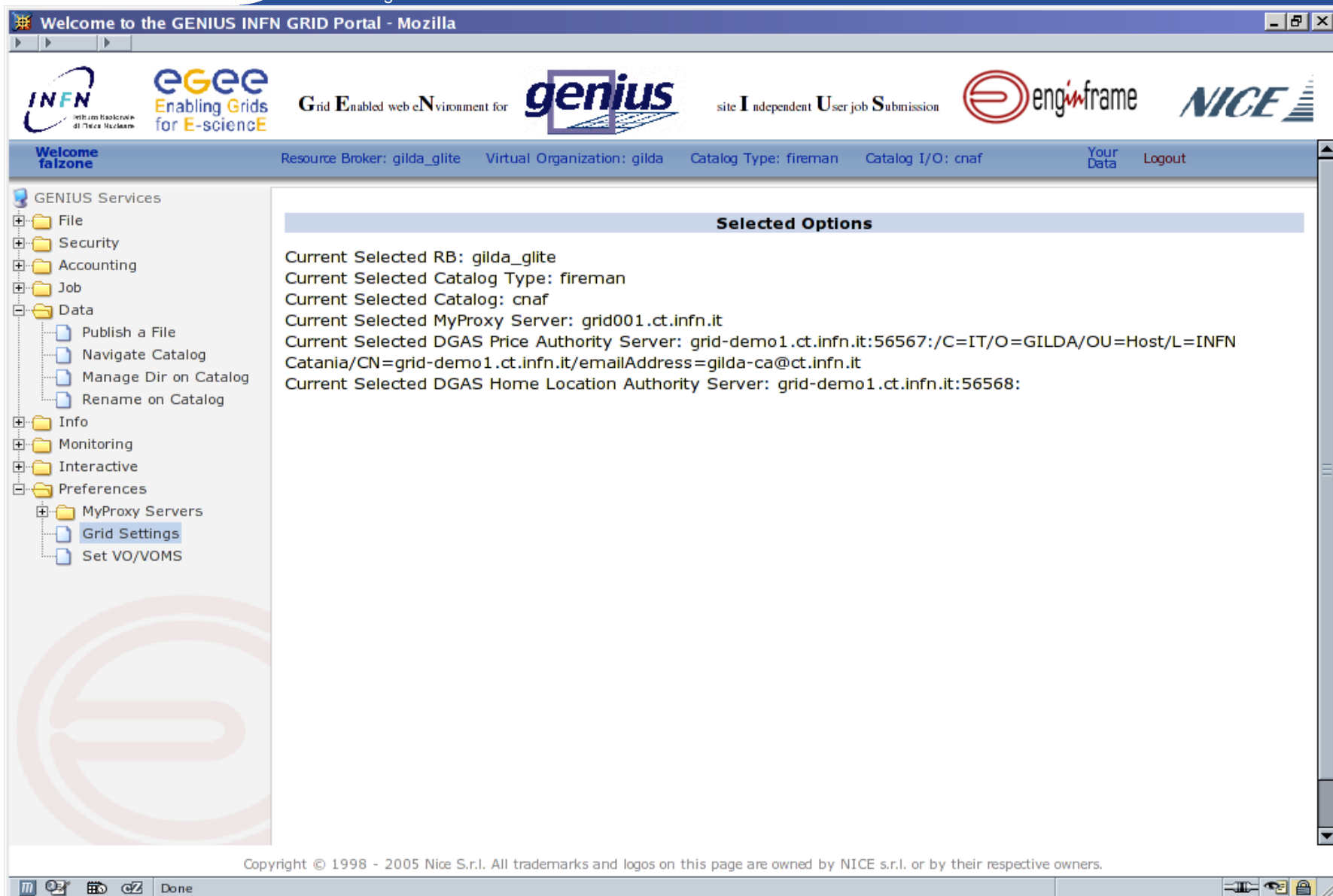
Catalog I/O server: cnaf (currently selected)

MyProxy Server: grid001.ct.infn.it (currently selected)






DGAS Price Authority Server: grid001.ct.infn.it (currently selected) / grid014.ct.infn.it

DGAS Home Location Register Server: gilda (currently selected)

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Welcome to the GENIUS INFN GRID Portal - Mozilla

Grid Enabled web eNvironment for **genius** site Independent User job Submission

Welcome **falzone**   
 Resource Broker: gilda\_glite   
 Virtual Organization: gilda   
 Catalog Type: fireman   
 Catalog I/O: cnaf   
 Your Data   
 Logout

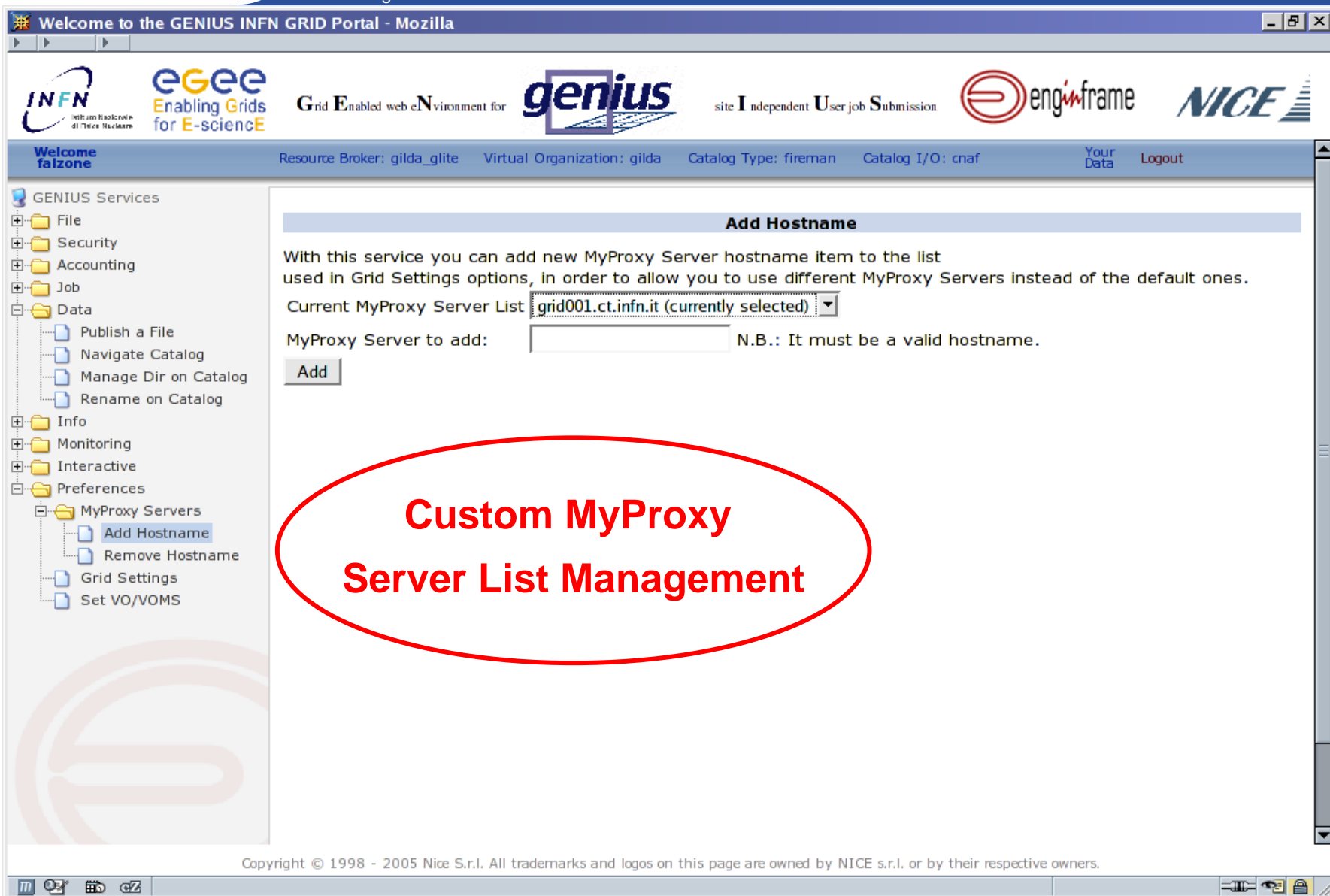
**GENIUS Services**

- File
- Security
- Accounting
- Job
- Data
  - Publish a File
  - Navigate Catalog
  - Manage Dir on Catalog
  - Rename on Catalog
- Info
- Monitoring
- Interactive
- Preferences
  - MyProxy Servers
  - Grid Settings**
  - Set VO/VOMS






**Selected Options**

Current Selected RB: gilda\_glite  
 Current Selected Catalog Type: fireman  
 Current Selected Catalog: cnaf  
 Current Selected MyProxy Server: grid001.ct.infn.it  
 Current Selected DGAS Price Authority Server: grid-demo1.ct.infn.it:56567:/C=IT/O=GILDA/OU=Host/L=INFN  
 Catania/CN=grid-demo1.ct.infn.it/emailAddress=gilda-ca@ct.infn.it  
 Current Selected DGAS Home Location Authority Server: grid-demo1.ct.infn.it:56568:

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Welcome to the GENIUS INFN GRID Portal - Mozilla

Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

GENIUS Services

- File
- Security
- Accounting
- Job
- Data
  - Publish a File
  - Navigate Catalog
  - Manage Dir on Catalog
  - Rename on Catalog
- Info
- Monitoring
- Interactive
- Preferences
  - MyProxy Servers
    - Add Hostname**
    - Remove Hostname
    - Grid Settings
    - Set VO/VOMS

**Add Hostname**

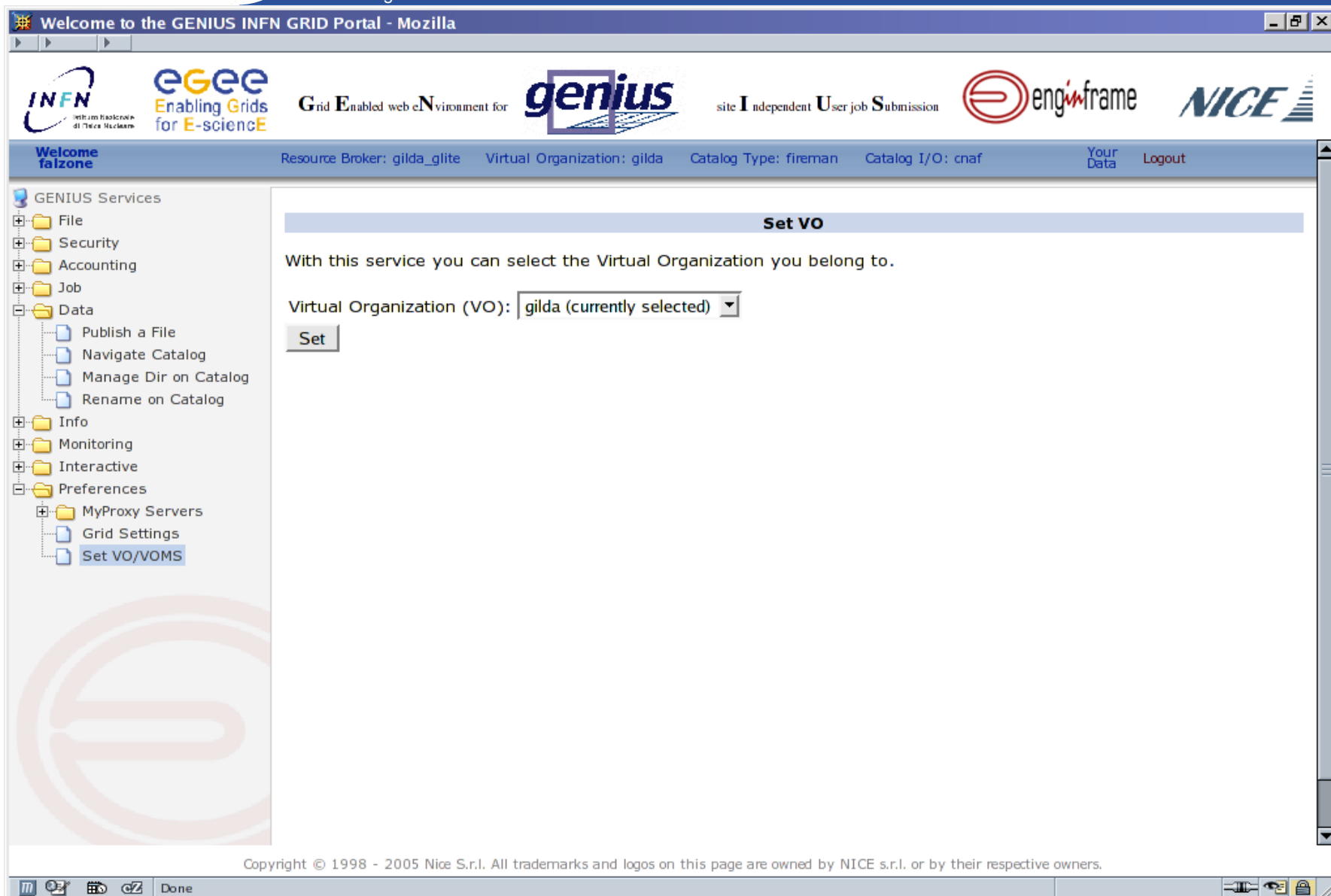
With this service you can add new MyProxy Server hostname item to the list used in Grid Settings options, in order to allow you to use different MyProxy Servers instead of the default ones.

Current MyProxy Server List:




MyProxy Server to add:  N.B.: It must be a valid hostname.


**Custom MyProxy Server List Management**

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Welcome to the GENIUS INFN GRID Portal - Mozilla



Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

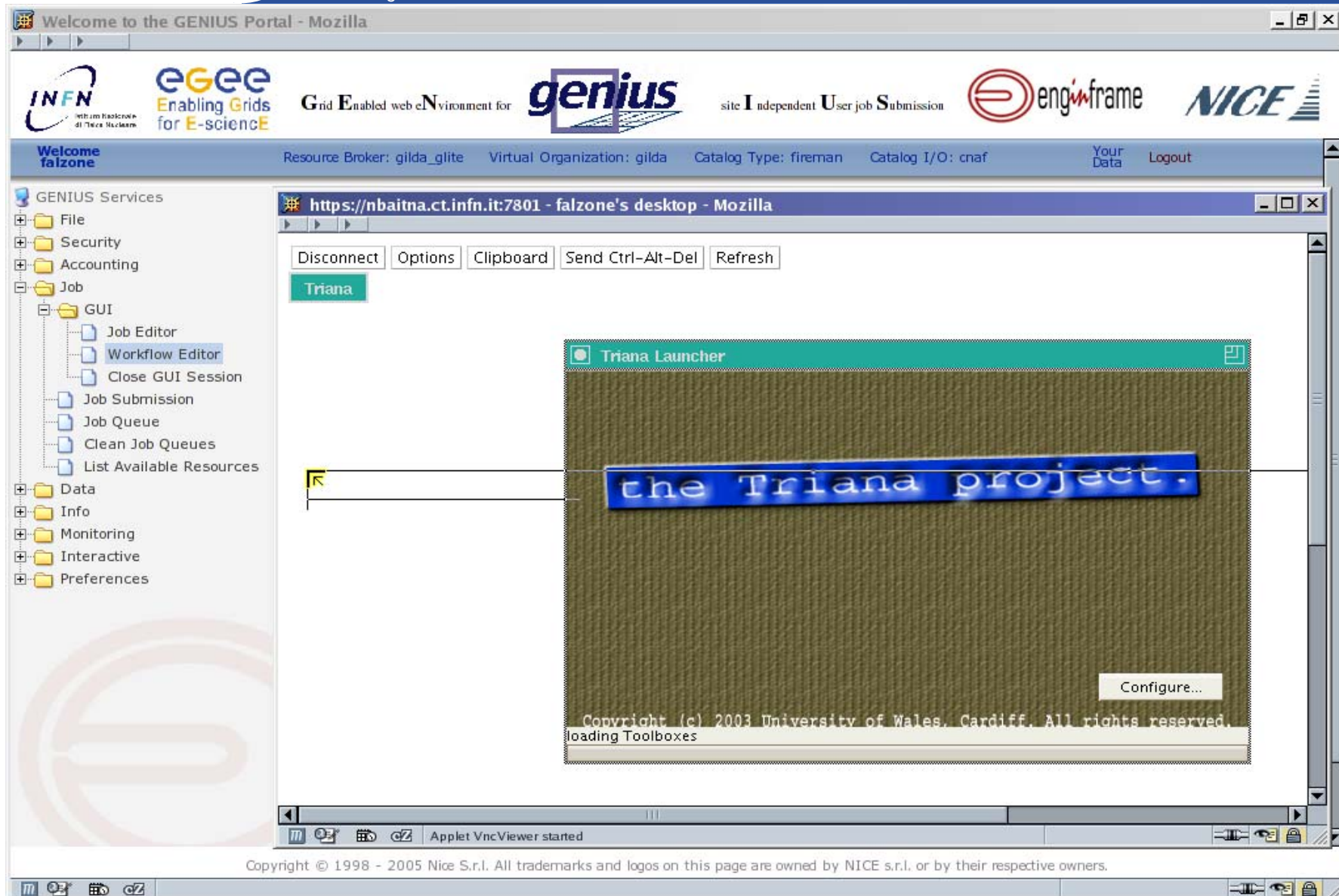
**GENIUS Services**  
 File  
 Security  
 Accounting  
 Job  
 Data  
   Publish a File  
   Navigate Catalog  
   Manage Dir on Catalog  
   Rename on Catalog  
 Info  
 Monitoring  
 Interactive  
 Preferences  
   MyProxy Servers  
   Grid Settings  
   Set VO/VOMS

**Set VO**






With this service you can select the Virtual Organization you belong to.

Virtual Organization (VO):

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Welcome to the GENIUS Portal - Mozilla

Grid Enabled web eNvironment for site Independent User job Submission

Welcome falzone Resource Broker: gilda\_glite Virtual Organization: gilda Catalog Type: fireman Catalog I/O: cnaf Your Data Logout

GENIUS Services

- File
- Security
- Accounting
- Job
  - GUI
    - Job Editor
    - Workflow Editor
    - Close GUI Session
  - Job Submission
  - Job Queue
  - Clean Job Queues
  - List Available Resources
- Data
- Info
- Monitoring
- Interactive
- Preferences

https://nbaitna.ct.infn.it:7801 - falzone's desktop - Mozilla

Disconnect Options Clipboard Send Ctrl-Alt-Del Refresh

Triana

Triana Launcher

the Triana project.

Configure...

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loading Toolboxes

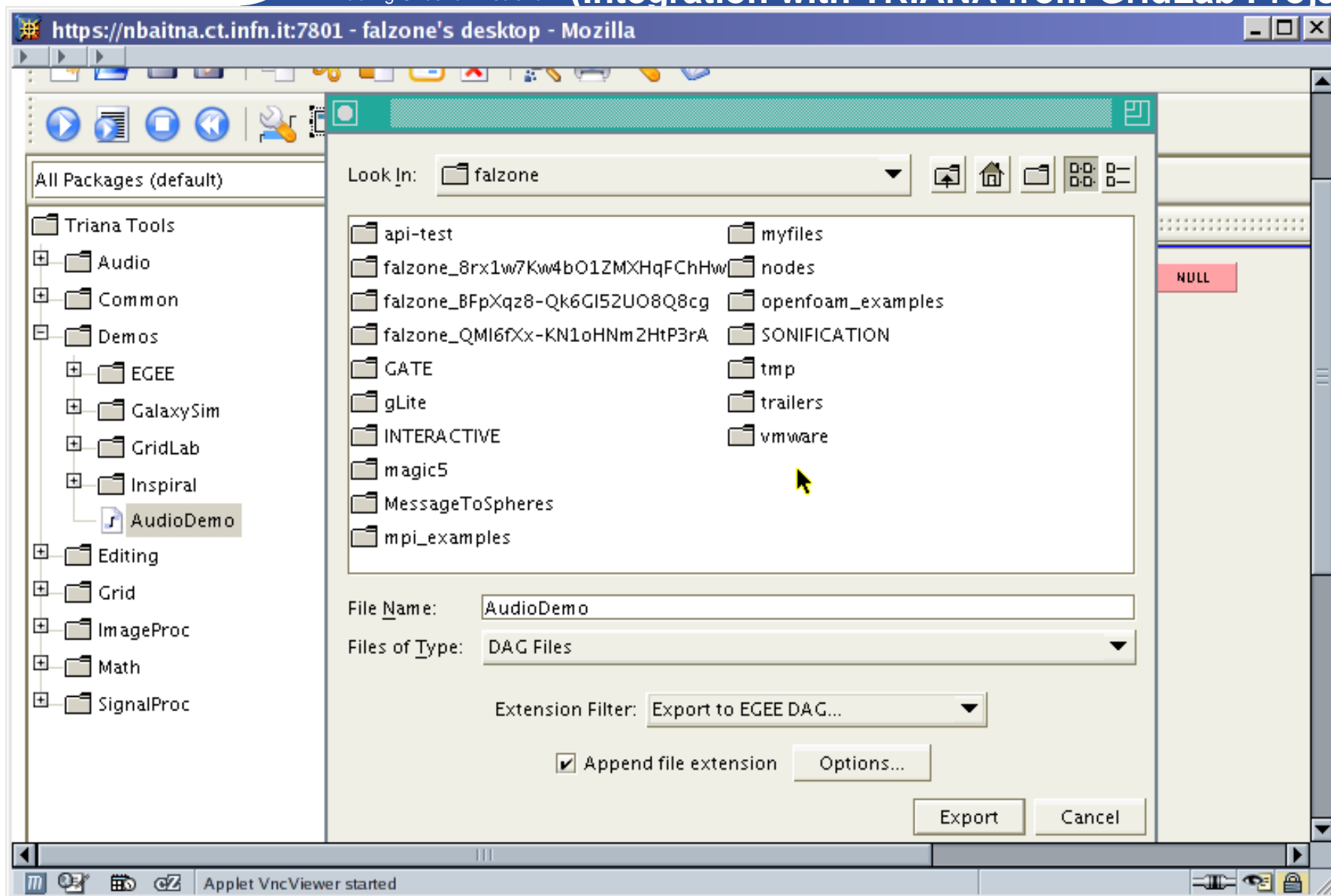
Applet VncViewer started

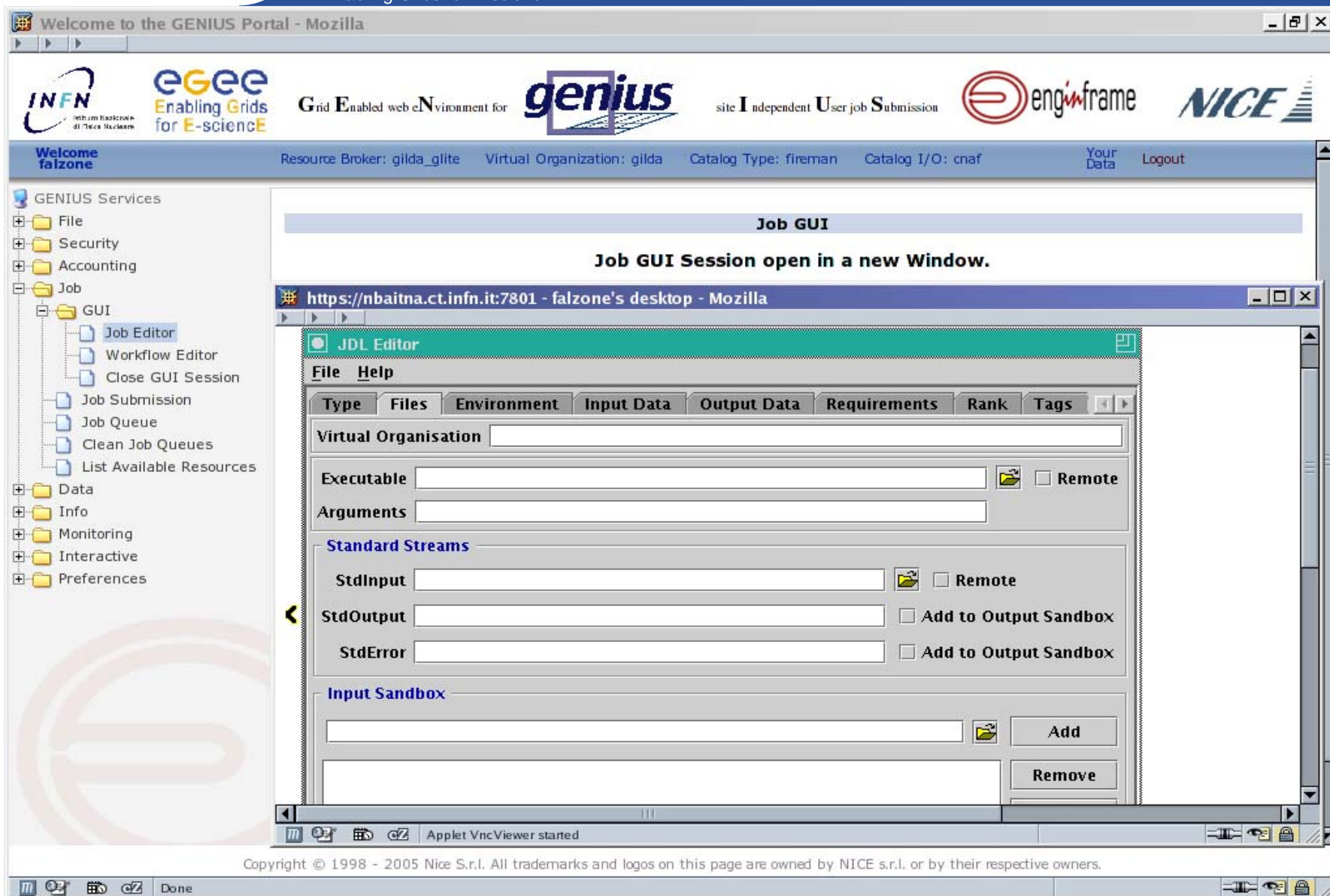
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The screenshot displays the GENIUS Portal in a Mozilla browser window. The page header includes logos for INFN, eGEE, genius, EnginFrame, and NICE. A navigation bar shows the user's name (falzone) and various system settings like Resource Broker (gilda\_glite) and Virtual Organization (gilda). On the left, a tree view lists GENIUS Services such as File, Security, Accounting, Job, GUI, Data, Info, Monitoring, Interactive, and Preferences. The main content area shows a web browser window titled 'https://nbaitna.ct.infn.it:7801 - falzone's desktop - Mozilla' containing the Triana workflow editor. The Triana interface includes a menu bar (File, Edit, Run, Tools, Services, Options, Window, Help) and a toolbar with icons for file operations and workflow actions. A file browser on the left shows a tree structure with folders like Triana Tools, Audio, Common, Demos, EGEE, GalaxySim, GridLab, Inspiral, and AudioDemo. The main workspace shows a workflow diagram for 'AudioDemo' with nodes: LoadSound, MAudioToSSet, MAudioToSSet1, Stereo2Mono, Subtractor, SSetToMAudio, Play, and a NULL terminal. The workflow starts with LoadSound, which feeds into MAudioToSSet and MAudioToSSet1. MAudioToSSet1 feeds into Stereo2Mono. Stereo2Mono feeds into MAudioToSSet. MAudioToSSet feeds into Subtractor. Subtractor feeds into SSetToMAudio. SSetToMAudio feeds into Play. Play feeds into the NULL terminal.






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Welcome to the GENIUS Portal - Mozilla

Welcome falzone  
 Resource Broker: gilda\_glite Virtual Organization: gilda Catalog Type: fireman Catalog I/O: cnaf Your Data Logout

GENIUS Services

- File
- Security
- Accounting
- Job
  - GUI
    - Job Editor
    - Workflow Editor
    - Close GUI Session
    - Job Submission
    - Job Queue
    - Clean Job Queues
    - List Available Resources
- Data
- Info
- Monitoring
- Interactive
- Preferences

**Job GUI**

**Job GUI Session open in a new Window.**

https://nbaitna.ct.infn.it:7801 - falzone's desktop - Mozilla

**JDL Editor**

File Help

Type Files Environment Input Data Output Data Requirements Rank Tags

Virtual Organisation

Executable   Remote

Arguments

**Standard Streams**

StdInput   Remote

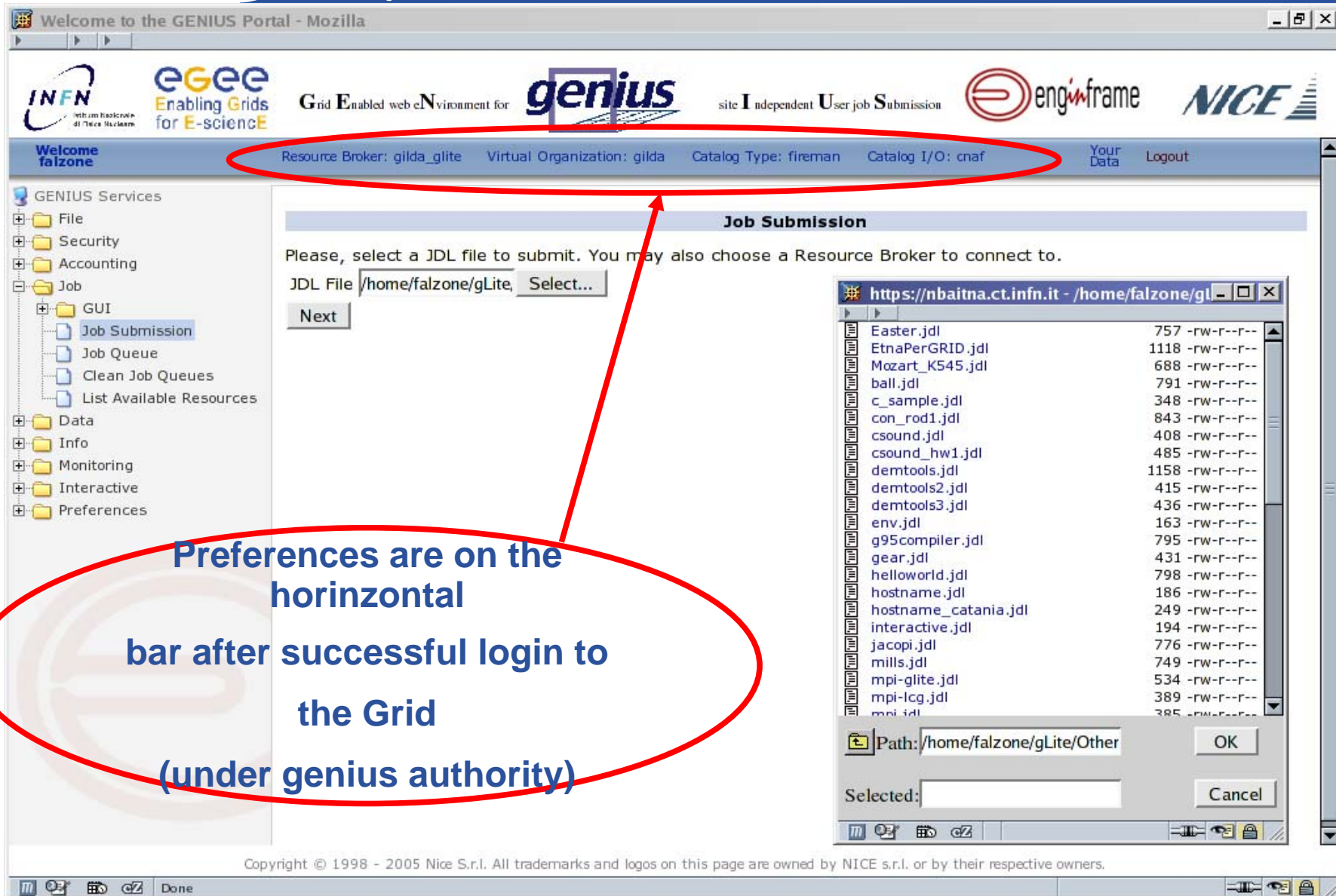
StdOutput   Add to Output Sandbox

StdError   Add to Output Sandbox






**Input Sandbox**

Applet VncViewer started

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Welcome to the GENIUS Portal - Mozilla

Welcome falzone

Resource Broker: gilda\_glite Virtual Organization: gilda Catalog Type: fireman Catalog I/O: cnaf

Your Data Logout

**Job Submission**

Please, select a JDL file to submit. You may also choose a Resource Broker to connect to.

JDL File

<https://nbaitna.ct.infn.it/~home/falzone/glite/>

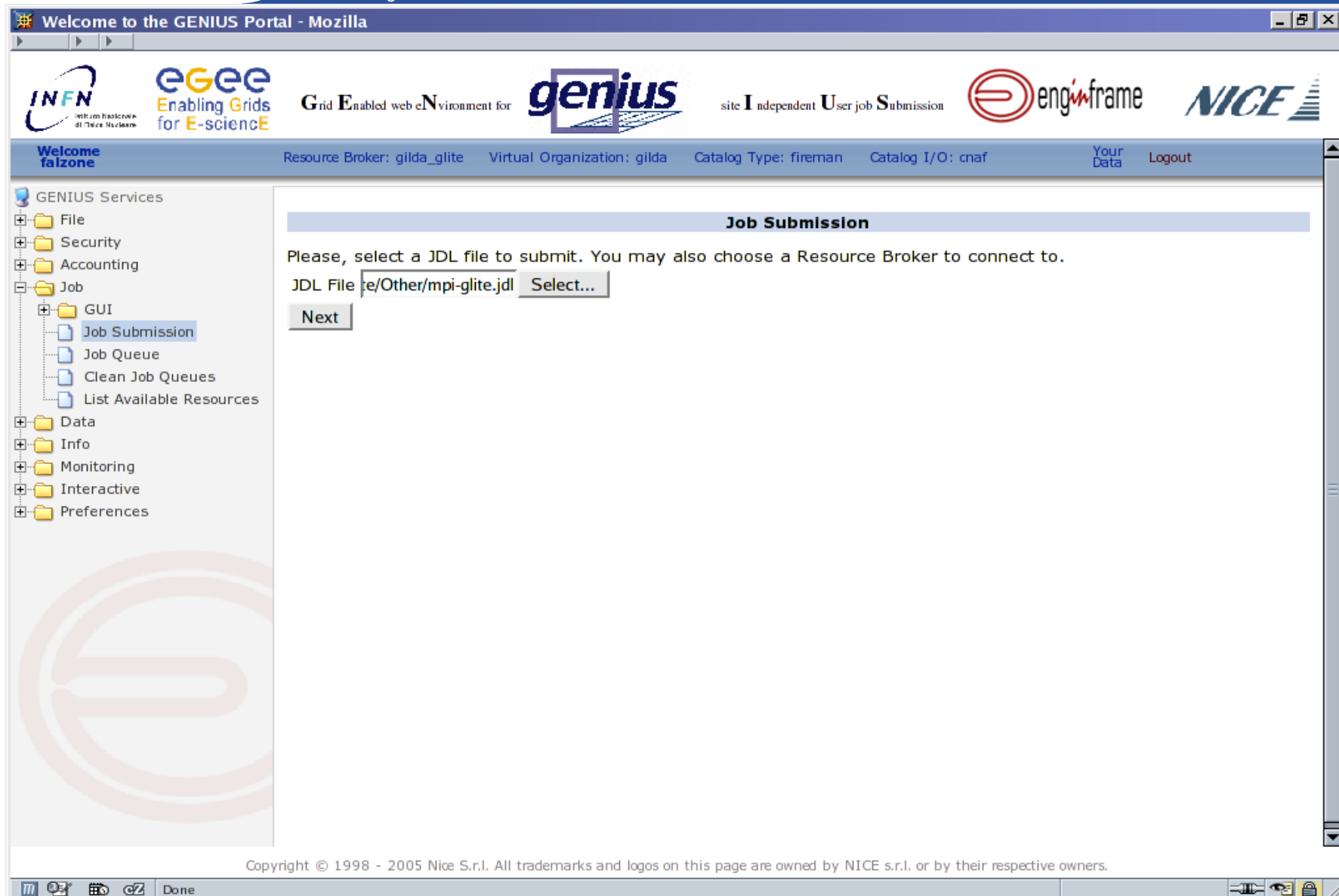
Easter.jdl	757	-rw-r--r--
EtnaPerGRID.jdl	1118	-rw-r--r--
Mozart_K545.jdl	688	-rw-r--r--
ball.jdl	791	-rw-r--r--
c_sample.jdl	348	-rw-r--r--
con_rod1.jdl	843	-rw-r--r--
csound.jdl	408	-rw-r--r--
csound_hw1.jdl	485	-rw-r--r--
demtools.jdl	1158	-rw-r--r--
demtools2.jdl	415	-rw-r--r--
demtools3.jdl	436	-rw-r--r--
env.jdl	163	-rw-r--r--
g95compiler.jdl	795	-rw-r--r--
gear.jdl	431	-rw-r--r--
helloworld.jdl	798	-rw-r--r--
hostname.jdl	186	-rw-r--r--
hostname_catania.jdl	249	-rw-r--r--
interactive.jdl	194	-rw-r--r--
jacopi.jdl	776	-rw-r--r--
mills.jdl	749	-rw-r--r--
mpi-glite.jdl	534	-rw-r--r--
mpi-lcg.jdl	389	-rw-r--r--
mpi.jdl	385	-rw-r--r--

Path:

Selected:

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Preferences are on the horizontal bar after successful login to the Grid (under genius authority)

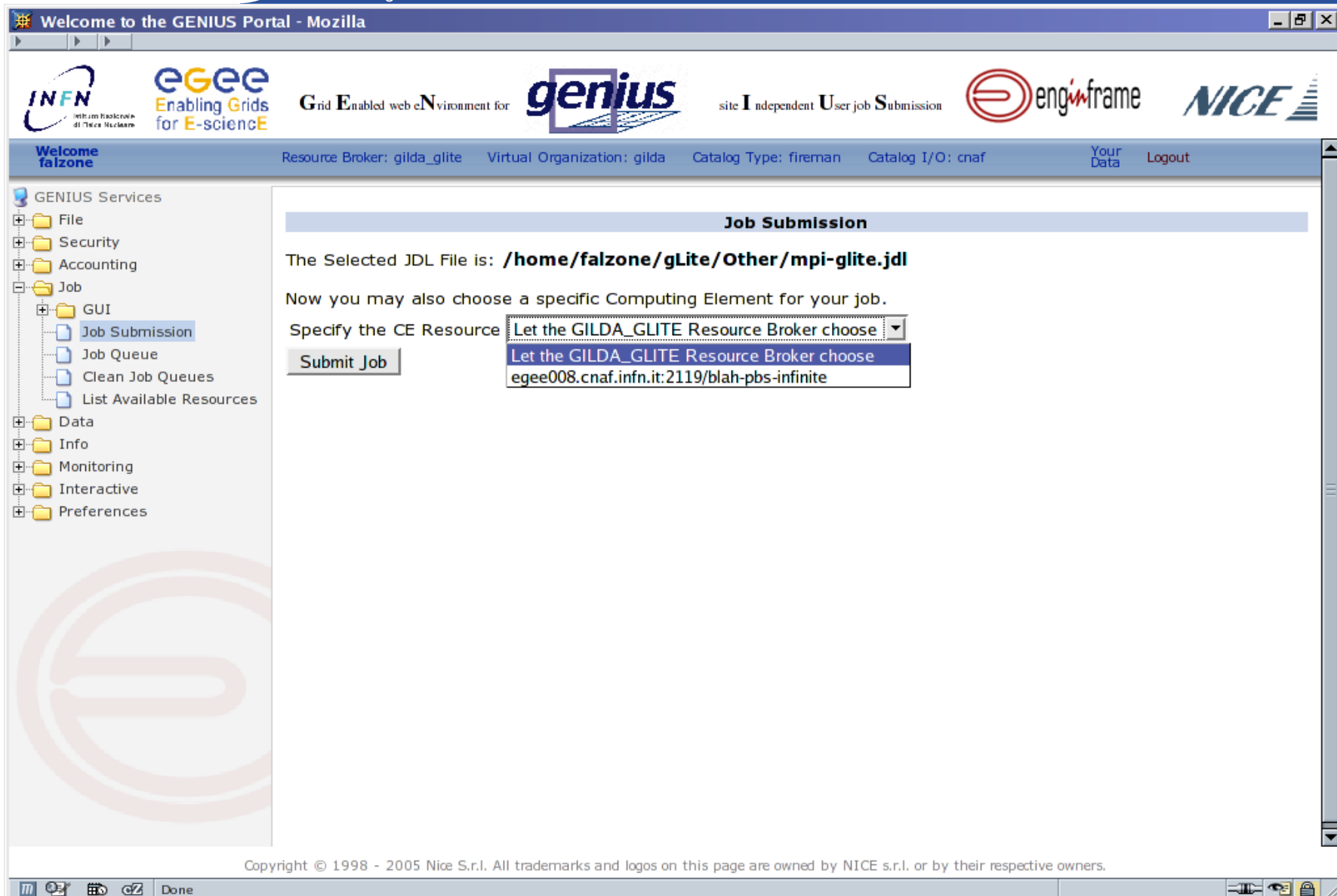


The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS Portal - Mozilla". The page features a header with logos for INFN, eGEE (Enabling Grids for E-science), genius (Grid Enabled web Environment for site Independent User job Submission), EnginFrame, and NICE. Below the header, a navigation bar displays "Welcome falzone" and system information: "Resource Broker: gilda\_glite", "Virtual Organization: gilda", "Catalog Type: fireman", "Catalog I/O: cnaf", "Your Data", and "Logout".

The main content area is titled "Job Submission" and contains the following text: "Please, select a JDL file to submit. You may also choose a Resource Broker to connect to." Below this text is a text input field containing "e/Other/mpj-glite.jdl" and a "Select..." button. A "Next" button is positioned below the input field.

A left-hand sidebar lists "GENIUS Services" with expandable folders: File, Security, Accounting, Job (expanded), GUI (expanded), Data, Info, Monitoring, Interactive, and Preferences. Under the "Job" folder, the "Job Submission" sub-item is highlighted.

At the bottom of the page, a copyright notice reads: "Copyright © 1998 - 2005 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners." The browser's status bar at the very bottom shows "Done" and various system icons.

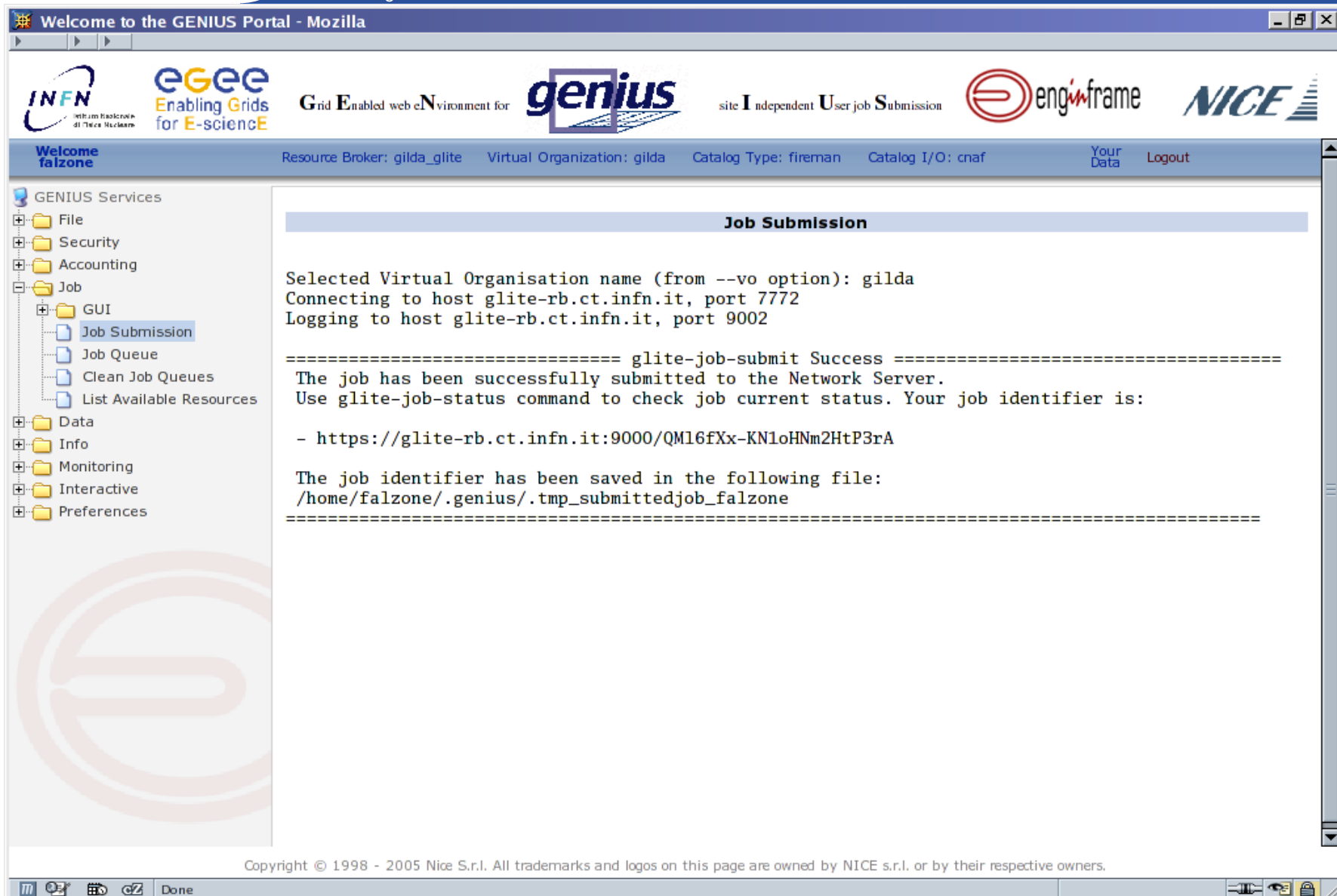


The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS Portal - Mozilla". The page header includes logos for INFN, eGEE (Enabling Grids for E-science), genius (Grid Enabled web Environment for site Independent User job Submission), EnginFrame, and NICE. A navigation bar shows "Welcome falzone" and system information: "Resource Broker: gilda\_glite", "Virtual Organization: gilda", "Catalog Type: fireman", "Catalog I/O: cnaf", "Your Data", and "Logout".






The main content area is titled "Job Submission". It displays the selected JDL file path: `/home/falzone/gLite/Other/mpi-glite.jdl`. Below this, it prompts the user to choose a specific Computing Element (CE) resource. A dropdown menu is open, showing the selected option: "Let the GILDA\_GLITE Resource Broker choose egee008.cnaf.infn.it:2119/blah-pbs-infinite". A "Submit Job" button is visible below the dropdown.

The left sidebar contains a tree view of "GENIUS Services" with categories like File, Security, Accounting, Job (with sub-items: GUI, Job Submission, Job Queue, Clean Job Queues, List Available Resources), Data, Info, Monitoring, Interactive, and Preferences.

At the bottom of the browser window, a copyright notice reads: "Copyright © 1998 - 2005 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners." The browser's status bar shows "Done".



Welcome to the GENIUS Portal - Mozilla

Grid Enabled web eNvironment for **genius** site Independent User job Submission

Welcome **falzone**    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

**GENIUS Services**

- File
- Security
- Accounting
- Job
  - GUI
    - Job Submission**
    - Job Queue
    - Clean Job Queues
    - List Available Resources
- Data
- Info
- Monitoring
- Interactive
- Preferences

**Job Submission**

```

Selected Virtual Organisation name (from --vo option): gilda
Connecting to host glite-rb.ct.infn.it, port 7772
Logging to host glite-rb.ct.infn.it, port 9002






===== glite-job-submit Success =====
The job has been successfully submitted to the Network Server.
Use glite-job-status command to check job current status. Your job identifier is:

- https://glite-rb.ct.infn.it:9000/QM16fXx-KN1oHNm2HtP3rA

The job identifier has been saved in the following file:
/home/falzone/.genius/.tmp_submittedjob_falzone
=====
  
```

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Welcome to the GENIUS Portal - Mozilla

Grid Enabled web eNvironment for site Independent User job Submission

Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

GENIUS Services

- File
- Security
- Accounting
- Job
  - GUI
  - Job Submission
  - Job Queue
  - Clean Job Queues
  - List Available Resources
- Data
- Info
- Monitoring
- Interactive
- Preferences

#	Globus Job ID	Last Update Time	Status	Destination	Exit Code
33	<a href="#">8rx1w7Kw4b01ZMXHqFChHw</a>	2006 Jan 8 14:50	Ready	glite-ce.ct.infn.it:2119/blah-pbs-short	
32	<a href="#">BFpXqz8-Qk6GI52UO8Q8cg</a>	2006 Jan 8 14:48	Ready	egee008.cnaf.infn.it:2119/blah-pbs-infinite	
31	<a href="#">ug271XmY1vGWyadRJ-6vqg</a>	2006 Jan 8 14:48	Ready	egee008.cnaf.infn.it:2119/blah-pbs-short	
30	<a href="#">QMI6fXx-KN1oHNm2HtP3rA</a>	2006 Jan 8 14:45	Ready	egee008.cnaf.infn.it:2119/blah-pbs-infinite	
29	<a href="#">ivKeaRNjtYijhTfjaaeaAA</a>	2006 Jan 2 16:43	Done	egee008.cnaf.infn.it:2119/blah-pbs-long	0
24	<a href="#">nNW0pQgp_vTNVaTGcAU8rQ</a>	2005 Dec 28 20:15	Done	glite-ce.ct.infn.it:2119/blah-pbs-long	0
22	<a href="#">XpUvqJo6wKba0upDX9V-8g</a>	2005 Dec 28 19:59	Done	glite-ce.ct.infn.it:2119/blah-pbs-short	0
21	<a href="#">MIZ-y3MIPkNLfxBcivit5A</a>	2005 Dec 28 19:59	Done	ixcde01.pd.infn.it:2119/blah-pbs-infinite	0
20	<a href="#">XuxWQMDawn3NRI3W_yLp9g</a>	2005 Dec 28 18:11	Done	glite-ce.ct.infn.it:2119/blah-pbs-short	0
17	<a href="#">eciQWhy4UoPbTZmgRhfxjA</a>	2005 Dec 28 16:52	Done	gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short	0
16	<a href="#">rvZJgqldmlEBWC-4jgv1tg</a>	2005 Dec 28 15:08	Done	glite-ce.ct.infn.it:2119/blah-pbs-short	0
3	<a href="#">LXplqV3AlcoQssrUWpTofA</a>	2005 Dec 27 23:12	Done	grid004.iucc.ac.il:2119/jobmanager-lcgpbs-long	0
2	<a href="#">X4PZT3vFMk_EOaHF0bq7zw</a>	2005 Dec 27 23:12	Done	grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite	0
1	<a href="#">oKUA3k-0_CIEyTpiXBTyVa</a>	2005 Dec 27 23:11	Done	grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite	0

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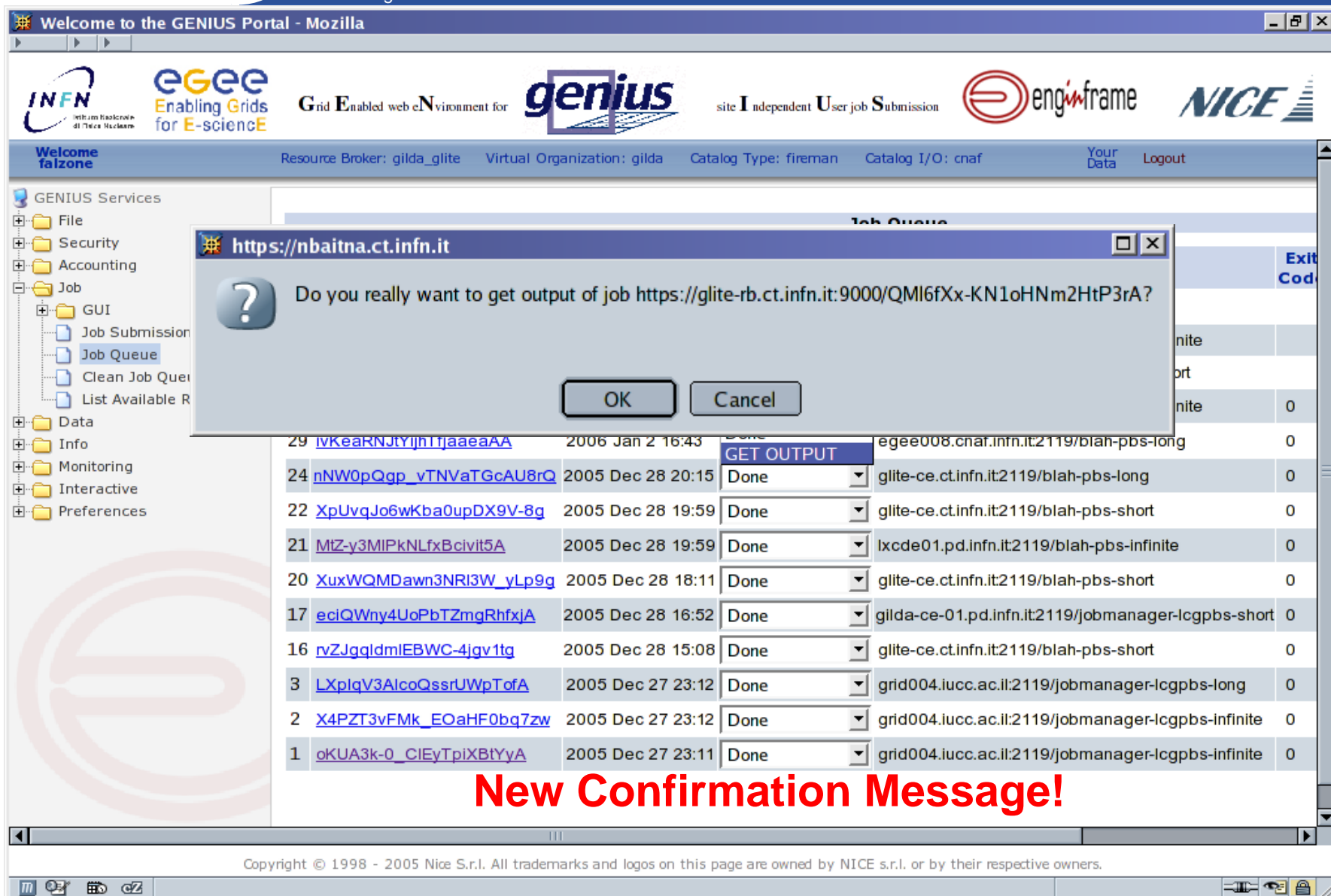
**Code for Job Queue management rewritten using GridML tags**

```

<grid:job-list type="lsf" xmlns:grid="http://www.enginframe.com/2000/GRID">
  <grid:job type="lsf" id="4120">
    <grid:owner>andrea</grid:owner>
    <grid:account>default</grid:account>
    <grid:status>DONE</grid:status>
    <grid:queue>priority</grid:queue>
    <grid:command>/usr/bin/spamc</grid:command>
    <grid:submission-time month="Jan" day="21" hour="23" minute="06" year="2005"/>
    <grid:submission-host>mail</grid:submission-host>
    <grid:submission-directory>$HOME</grid:submission-directory>
    <grid:execution-time month="Jan" day="21" hour="23" minute="06" year="2005"/>
    <grid:execution-host>mail</grid:execution-host>
    <grid:termination-time month="Jan" day="21" hour="23" minute="06" year="2005"/>
    <grid:total-cpu-usage>0.0</grid:total-cpu-usage>
    <grid:exit-code>0</grid:exit-code>
  </grid:job>
</grid:job-list>

```





Job Queue

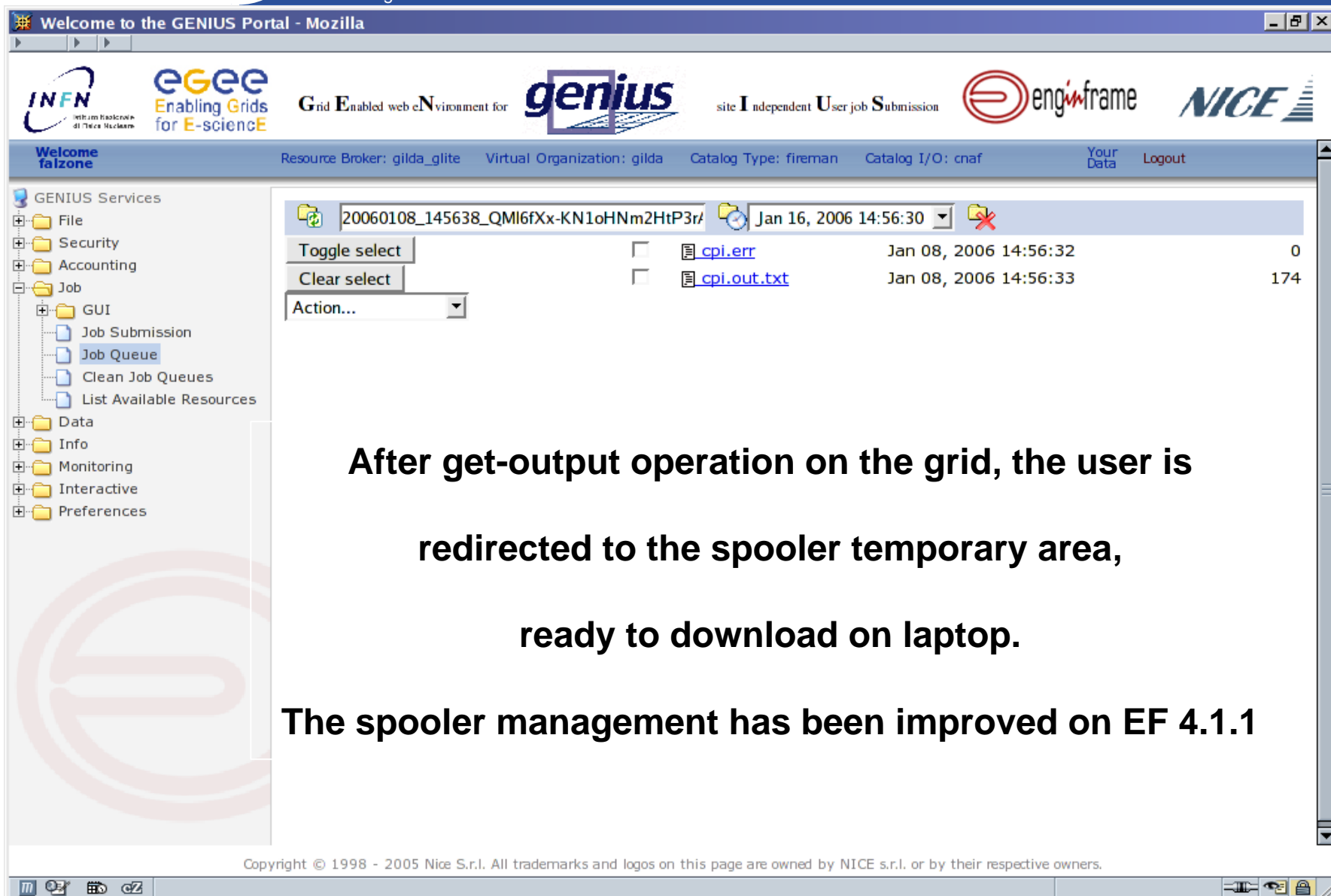
Do you really want to get output of job <https://glite-rb.ct.infn.it:9000/QMI6fXx-KN1oHNm2HtP3rA?>

OK Cancel

Job ID	Job Name	Start Time	Status	Output Location	Exit Code
29	<a href="#">vKearNjYtYjnlTjaaaAA</a>	2006 Jan 2 16:43	Done	egee008.cnar.infn.it:2119/blah-pbs-long	0
24	<a href="#">nNW0pQgp_vTNVaTGcAU8rQ</a>	2005 Dec 28 20:15	Done	glite-ce.ct.infn.it:2119/blah-pbs-long	0
22	<a href="#">XpUvqJo6wKba0upDX9V-8g</a>	2005 Dec 28 19:59	Done	glite-ce.ct.infn.it:2119/blah-pbs-short	0
21	<a href="#">MIZ-y3MIPkNlfxBcivit5A</a>	2005 Dec 28 19:59	Done	lxcde01.pd.infn.it:2119/blah-pbs-infinite	0
20	<a href="#">XuxWQMDawn3NRI3W_yLp9g</a>	2005 Dec 28 18:11	Done	glite-ce.ct.infn.it:2119/blah-pbs-short	0
17	<a href="#">eciQWny4UoPbTZmgRhfjA</a>	2005 Dec 28 16:52	Done	gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short	0
16	<a href="#">rvZJgqldmlEBWC-4jgv1tg</a>	2005 Dec 28 15:08	Done	glite-ce.ct.infn.it:2119/blah-pbs-short	0
3	<a href="#">LXplqV3AlcoQssrJWpTofA</a>	2005 Dec 27 23:12	Done	grid004.iucc.ac.il:2119/jobmanager-lcgpbs-long	0
2	<a href="#">X4PZT3vFMk_EOaHF0bq7zw</a>	2005 Dec 27 23:12	Done	grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite	0
1	<a href="#">oKUA3k-0_CIEyTpiXBtYyA</a>	2005 Dec 27 23:11	Done	grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite	0

**New Confirmation Message!**

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The screenshot shows the GENIUS Portal interface in a Mozilla browser window. The page title is "Welcome to the GENIUS Portal - Mozilla". The header includes logos for INFN, eGEE, genius, EnginFrame, and NICE. Below the header, there is a navigation bar with "Welcome falzone" and various system information like "Resource Broker: gilda\_glite", "Virtual Organization: gilda", "Catalog Type: fireman", and "Catalog I/O: cnaf".

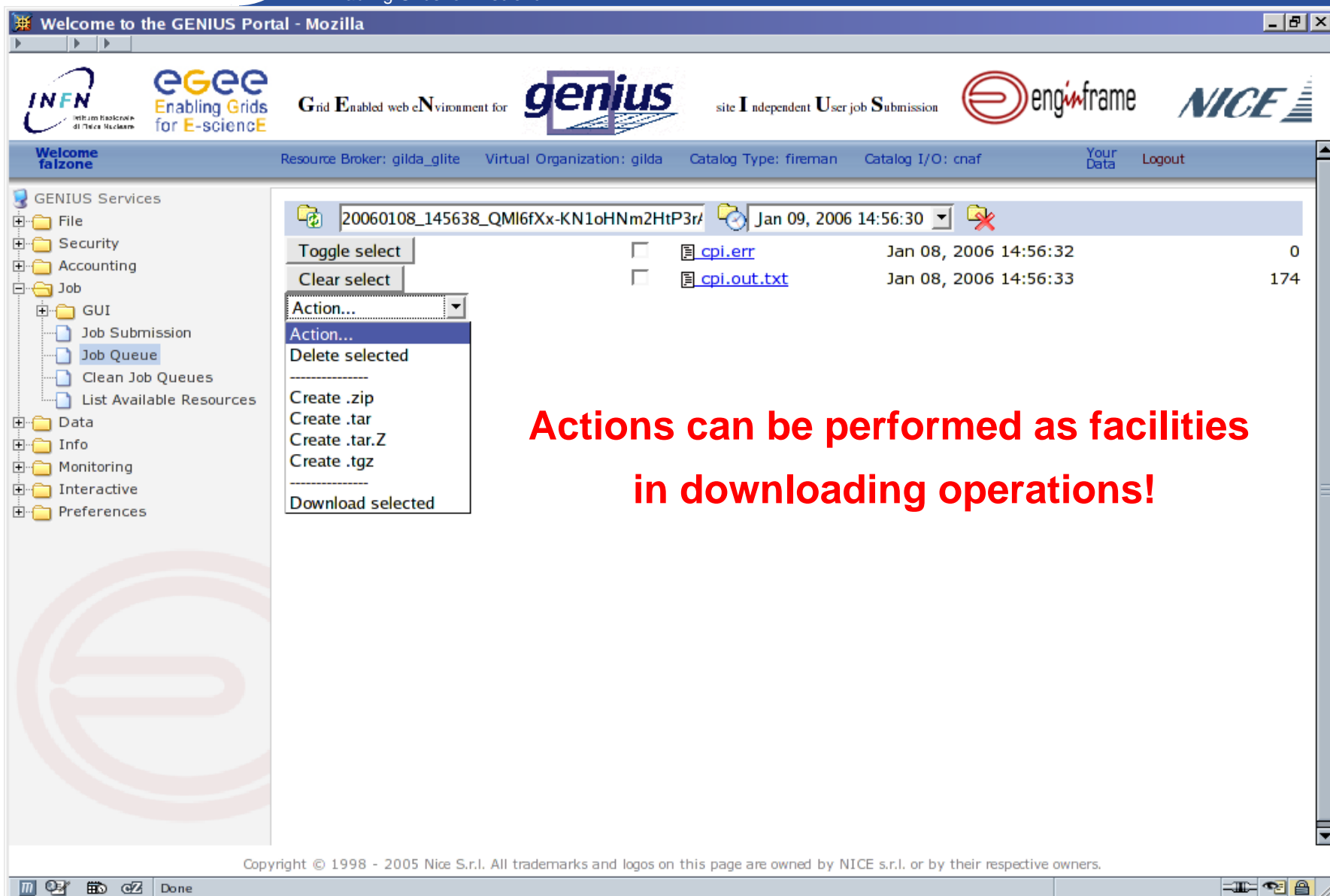
The main content area displays a job queue. The selected job ID is "20060108\_145638\_QMI6fXx-KN1oHNm2HtP3r/". The job was submitted on "Jan 16, 2006 14:56:30". Below the job ID, there are two files listed:

File Name	Submission Date	Size
<a href="#">cpi.err</a>	Jan 08, 2006 14:56:32	0
<a href="#">cpi.out.txt</a>	Jan 08, 2006 14:56:33	174






There are controls for "Toggle select", "Clear select", and "Action..." for the selected files.

**After get-output operation on the grid, the user is redirected to the spooler temporary area, ready to download on laptop.**

**The spooler management has been improved on EF 4.1.1**



Welcome to the GENIUS Portal - Mozilla

Grid Enabled web eNvironment for **genius** site Independent User job Submission

Welcome falzone    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

GENIUS Services

- File
- Security
- Accounting
- Job
  - GUI
  - Job Submission
  - Job Queue
  - Clean Job Queues
  - List Available Resources
- Data
- Info
- Monitoring
- Interactive
- Preferences






20060108_145638_QMI6fXx-KN1oHNm2HtP3r/	Jan 09, 2006 14:56:30	
<input type="checkbox"/> <a href="#">cpi.err</a>	Jan 08, 2006 14:56:32	0
<input type="checkbox"/> <a href="#">cpi.out.txt</a>	Jan 08, 2006 14:56:33	174

Toggle select    Clear select    Action...  
 Action...  
 Delete selected  
 -----  
 Create .zip  
 Create .tar  
 Create .tar.Z  
 Create .tgz  
 -----  
 Download selected

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**Actions can be performed as facilities  
in downloading operations!**

Welcome to the GENIUS Portal - Mozilla



 Grid Enabled web eNvironment for 
 site Independent User job Submission  

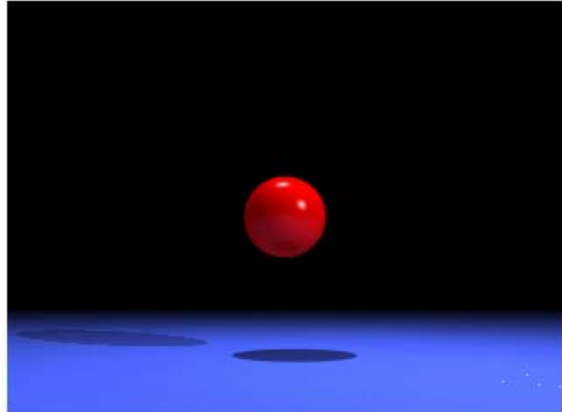
Welcome **falzone**    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: catania    Your Data    Logout

**GENIUS Services**  
 + File  
 + Security  
 + Accounting  
 + Job  
   + GUI  
     Job Submission  
     **Job Queue**  
     Clean Job Queues  
     List Available Resources  
 + Data  
 + Info  
 + Monitoring  
 + Interactive  
 + Preferences

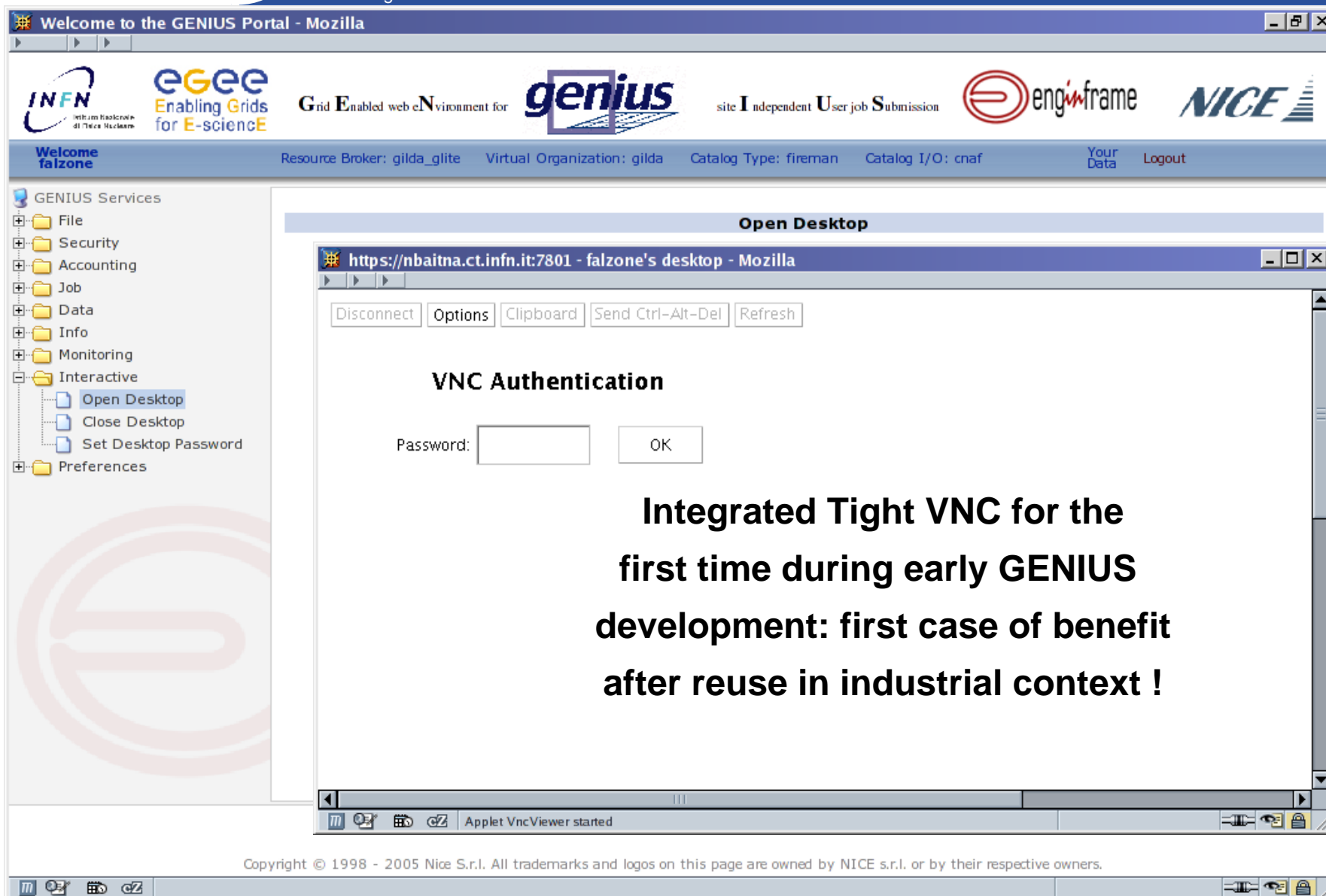
20060108\_211105\_fx2vwJQZv6Jlak89sVMXXv    Jan 09, 2006 21:10:57

<input type="checkbox"/>	<a href="#">ball.out</a>	Jan 08, 2006 21:10:58	0
<input type="checkbox"/>	<a href="#">final_ball.gif</a>	Jan 08, 2006 21:11:00	915033
<input type="checkbox"/>	<a href="#">ball.err.txt</a>	Jan 08, 2006 21:10:59	186804

Toggle select    Clear select    Action...

**final\_ball.gif (GIF Image, 320x250 pixels) - Mozilla**  


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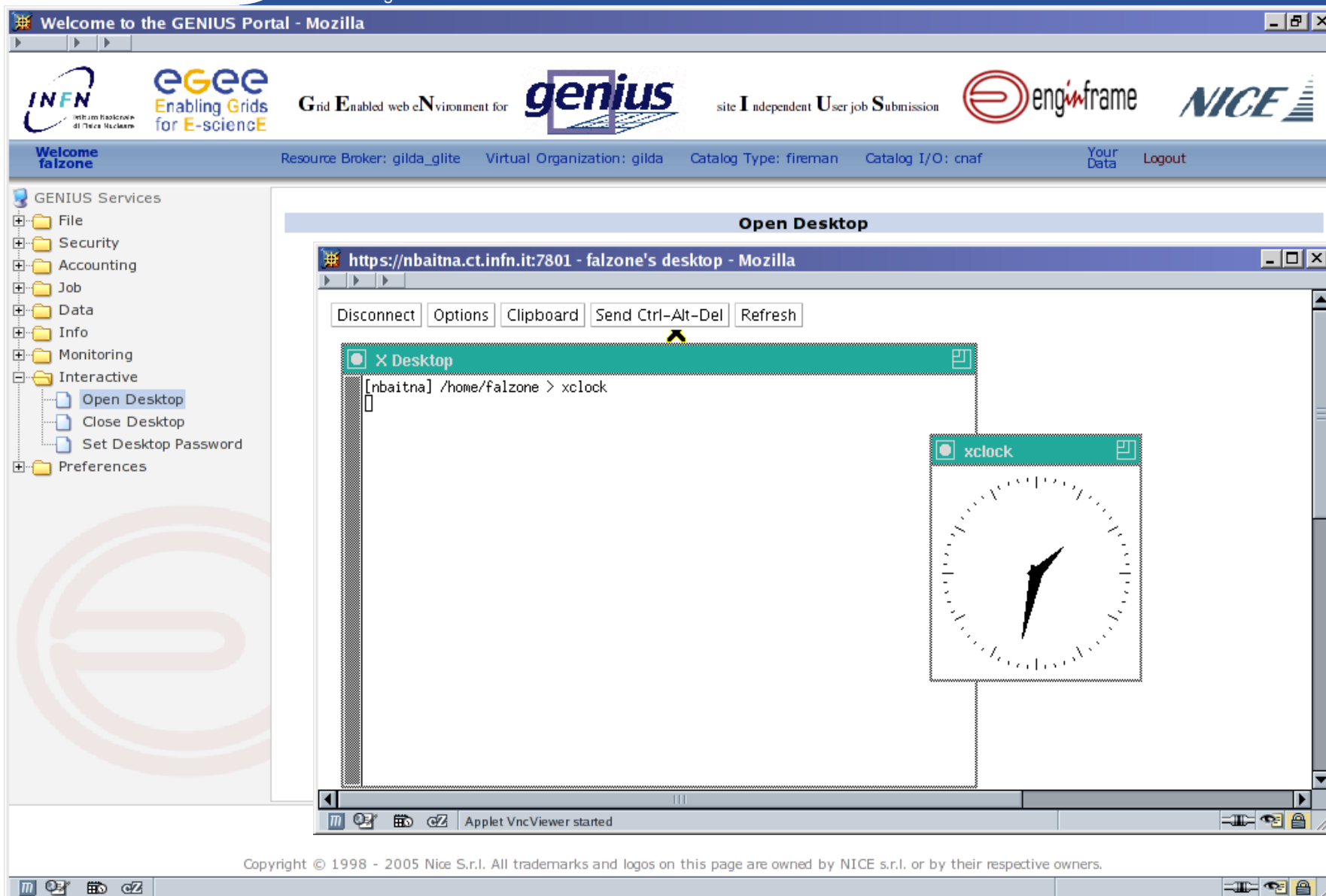
The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS Portal - Mozilla". The page header includes logos for INFN, eGEE (Enabling Grids for E-science), genius, and NICE. A navigation bar contains links for "Welcome falzone", "Resource Broker: gilda\_glite", "Virtual Organization: gilda", "Catalog Type: fireman", "Catalog I/O: cnaf", "Your Data", and "Logout".

On the left, a "GENIUS Services" sidebar lists various folders: File, Security, Accounting, Job, Data, Info, Monitoring, Interactive, and Preferences. The "Interactive" folder is expanded, showing "Open Desktop", "Close Desktop", and "Set Desktop Password".

The main content area displays an "Open Desktop" window titled "https://nbaitna.ct.infn.it:7801 - falzone's desktop - Mozilla". This window contains a "VNC Authentication" form with a "Password:" label, an input field, and an "OK" button. Above the form are buttons for "Disconnect", "Options", "Clipboard", "Send Ctrl-Alt-Del", and "Refresh".

At the bottom of the browser window, a status bar shows "Applet VncViewer started".

**Integrated Tight VNC for the first time during early GENIUS development: first case of benefit after reuse in industrial context !**



The screenshot displays the GENIUS Portal in a Mozilla browser window. The main content area is titled "Open Desktop" and shows a remote desktop session for user "falzone". The desktop environment includes a terminal window with the command `[nbaitna] /home/falzone > xclock` and a clock window titled "xclock". The portal header features logos for INFN, eGEE, genius, enginframe, and NICE. A navigation bar includes "Welcome falzone", "Resource Broker: gilda\_glite", "Virtual Organization: gilda", "Catalog Type: fireman", "Catalog I/O: cnaf", "Your Data", and "Logout". A left sidebar lists "GENIUS Services" such as File, Security, Accounting, Job, Data, Info, Monitoring, Interactive (with sub-items like Open Desktop, Close Desktop, Set Desktop Password), and Preferences. A footer contains the copyright notice: "Copyright © 1998 - 2005 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners."

The screenshot displays the GENIUS Portal interface within a Mozilla browser window. The main page features logos for INFN, eGEE, genius, EnginFrame, and NICE. A navigation bar includes links for 'Welcome falzone', 'Resource Broker: gilda\_glite', 'Virtual Organization: gilda', 'Catalog Type: fireman', 'Catalog I/O: cnaf', 'Your Data', and 'Logout'. A sidebar on the left lists 'GENIUS Services' such as File, Security, Accounting, Job, Data, Info, Monitoring, Interactive, and Preferences. The main content area shows a file browser interface with a 'Publish' button and a list of files and folders. A 'File Upload' dialog is open, showing a list of files with their names and modification dates. A smaller dialog box is also visible at the bottom.

Nome	Data modifica
alberto.jdl	30/09/2003
alroot1.jdl	27/03/2003
alroot3.jdl	31/03/2003
alroot_old_test.jdl	01/04/2003
alroot.test.jdl	25/03/2003
first_tarball.tar	15/11/2005
jdl_test.jdl	27/03/2003
second_tarball.tar.gz	15/11/2005
second_tarball.tgz	15/11/2005

ended Remote  
File Browse  
man/LFC Catalog

Welcome to the GENIUS Portal - Mozilla

INFN eGEE Enabling Grids for E-science Grid Enabled web eNvironment for genius site Independent User job Submission enginframe NICE

Welcome falzone Resource Broker: gilda\_glite Virtual Organization: gilda Catalog Type: fireman Catalog I/O: cnaf Your Data Logout

### Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization

Selected files on Catalog

[Download & View](#) [Remove](#) [Show Details](#)

https://nbaitna.ct.infn.it - /Alberto - Mozilla

<input checked="" type="checkbox"/>	test1.jdl	0	-pdrwl-gs--r-l-g-----
<input checked="" type="checkbox"/>	DAG.jdl	566	-pdrwl-gs--r-l-g-----
<input type="checkbox"/>	test-alberto-cnaf-1.jdl	203	-pdrwl-gs--r-l-g-----
<input type="checkbox"/>	hostname.jdl	203	-pdrwl-gs--r-l-g-----
<input checked="" type="checkbox"/>	alberto.jdl	166	-pdrwl-gs--r-l-g-----
<input checked="" type="checkbox"/>	EtnaPerGRID.jdl	1740	-pdrwl-gs--r-l-g-----

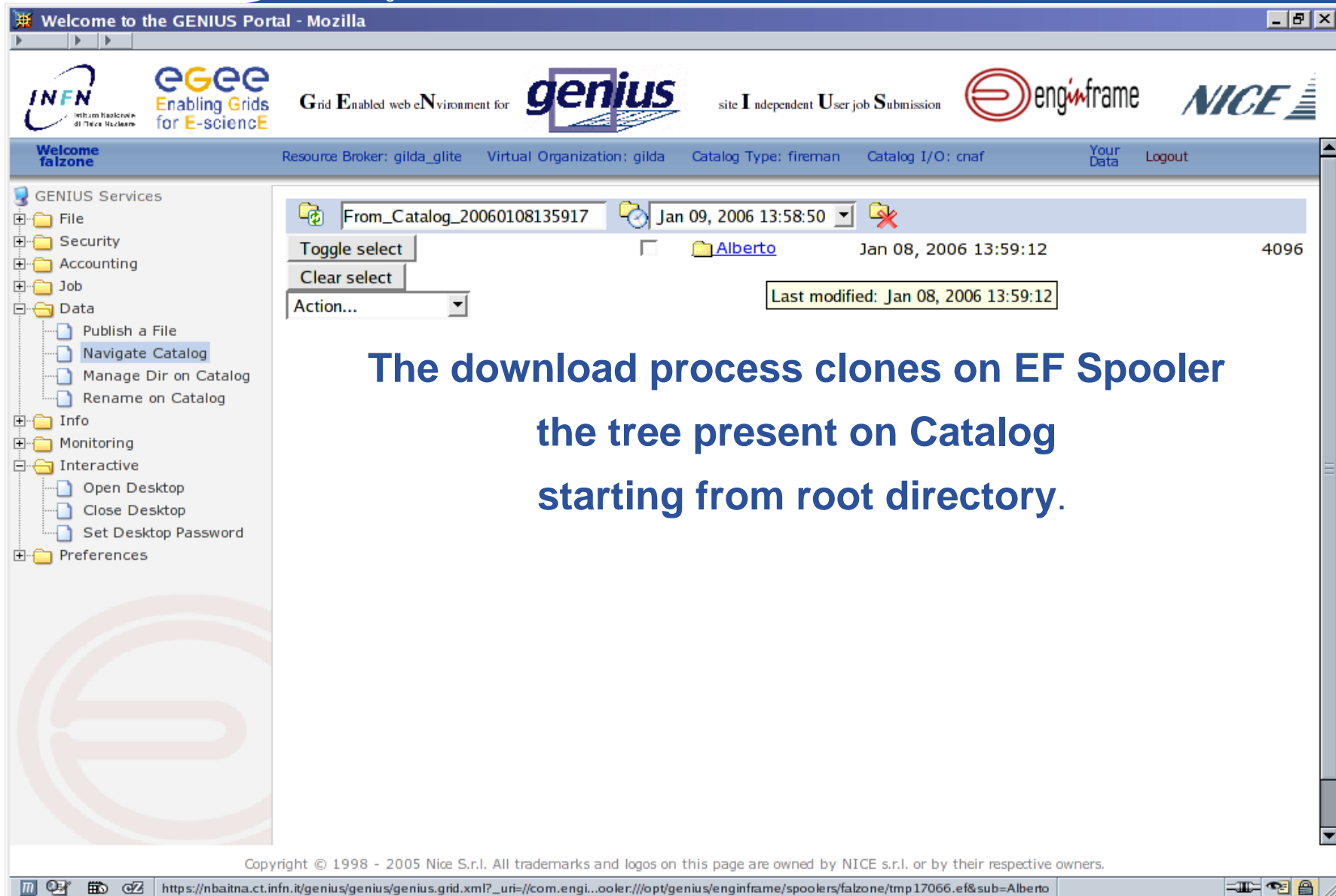
Path: /Alberto OK

Select all Unselect all Cancel






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Welcome to the GENIUS Portal - Mozilla

Welcome **falzone**    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

GENIUS Services

- File
- Security
- Accounting
- Job
- Data
  - Publish a File
  - Navigate Catalog
  - Manage Dir on Catalog
  - Rename on Catalog
- Info
- Monitoring
- Interactive
  - Open Desktop
  - Close Desktop
  - Set Desktop Password
- Preferences

From\_Catalog\_20060108135917    Jan 09, 2006 13:58:50

Toggle select     [Alberto](#)    Jan 08, 2006 13:59:12    4096

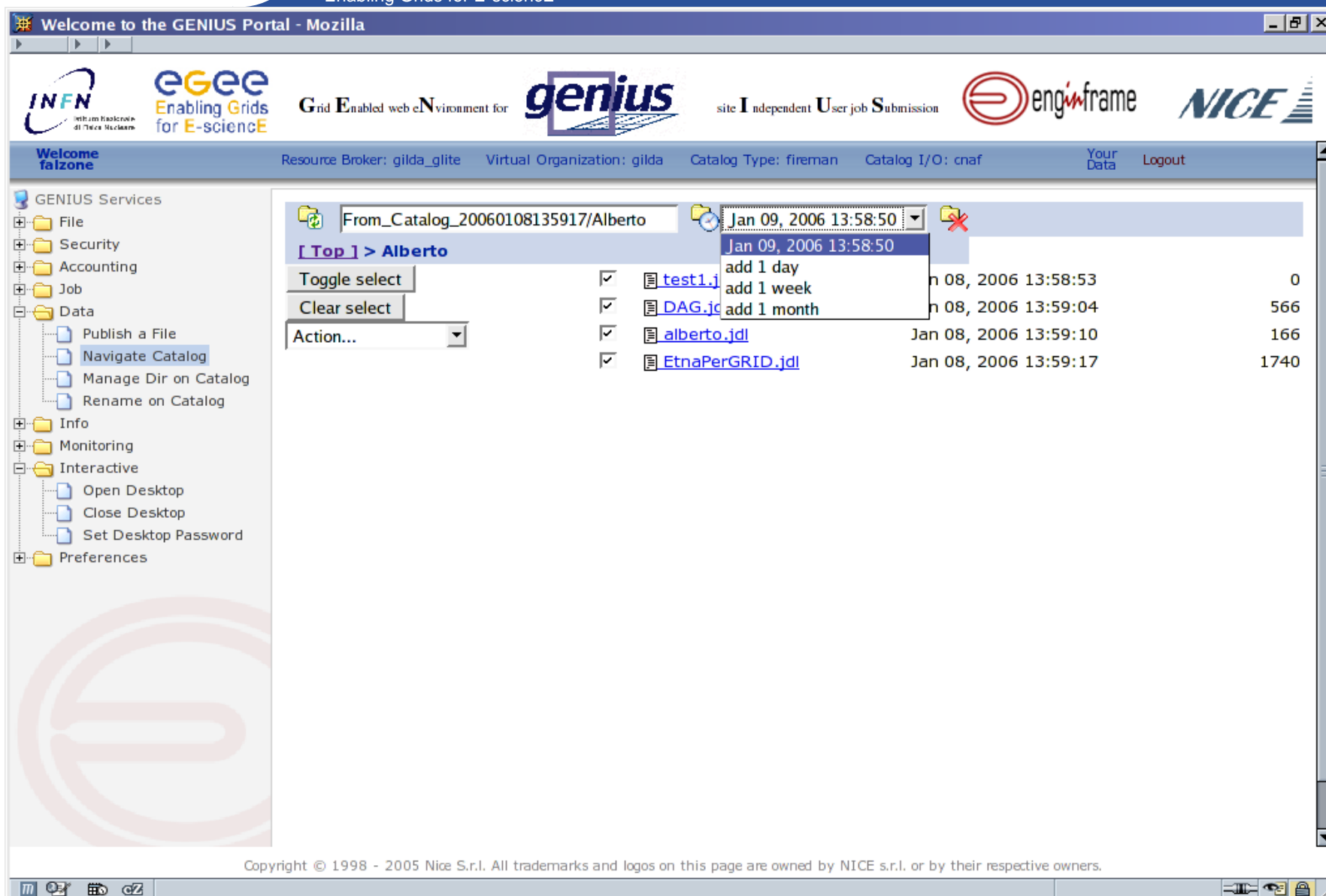
Clear select

Action...    Last modified: Jan 08, 2006 13:59:12






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https://nbaitna.ct.infn.it/genius/genius/genius.grid.xml?\_uri=//com.engi...ooler://opt/genius/enginframe/spoolers/falzone/tmp17066.ef&sub=Alberto

**The download process clones on EF Spooler  
the tree present on Catalog  
starting from root directory.**



Welcome to the GENIUS Portal - Mozilla

Welcome **faizone**   
 Resource Broker: gilda\_glite   
 Virtual Organization: gilda   
 Catalog Type: fireman   
 Catalog I/O: cnaf   
 Your Data   
 Logout

GENIUS Services

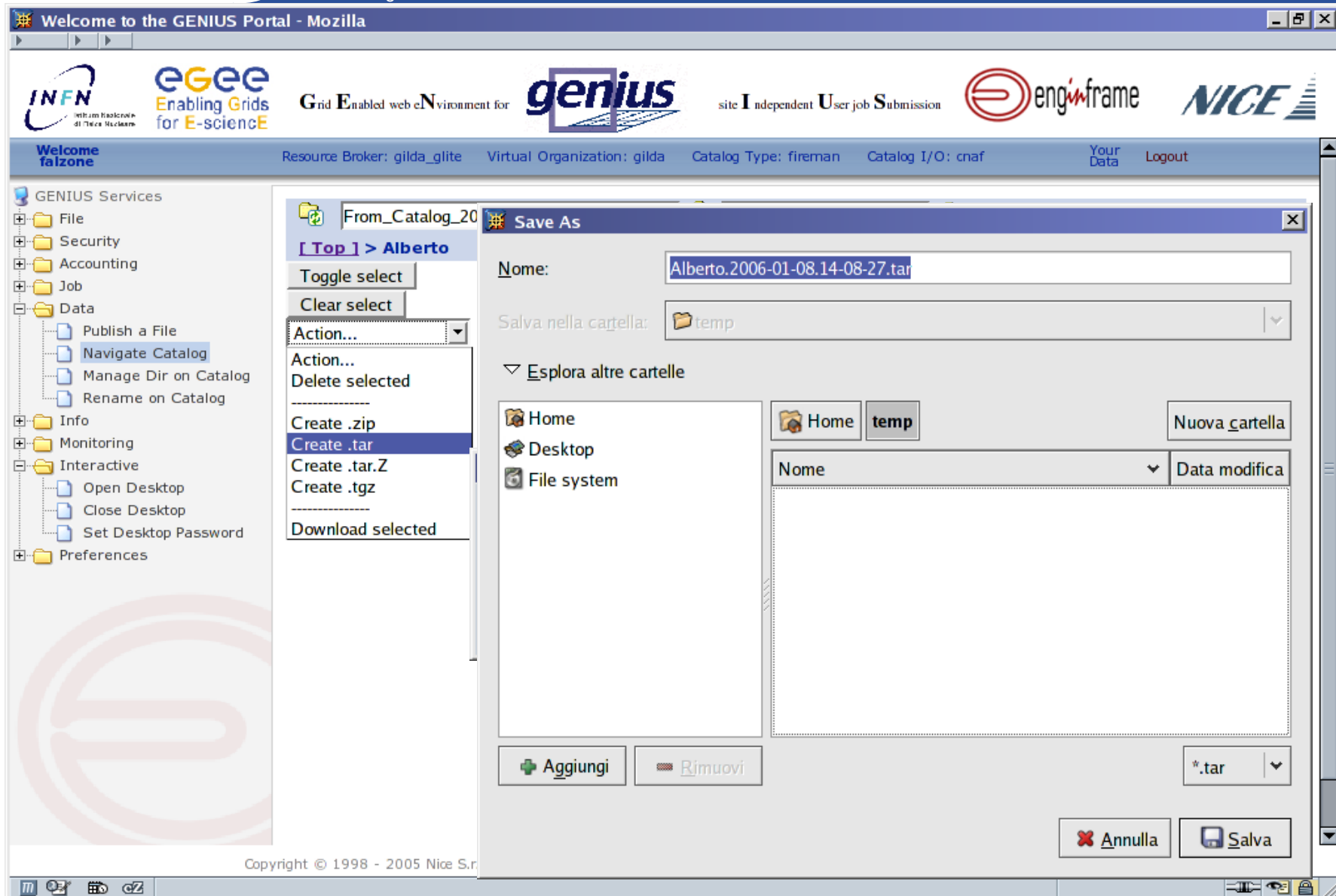
- File
- Security
- Accounting
- Job
- Data
  - Publish a File
  - Navigate Catalog
  - Manage Dir on Catalog
  - Rename on Catalog
- Info
- Monitoring
- Interactive
  - Open Desktop
  - Close Desktop
  - Set Desktop Password
- Preferences

From\_Catalog\_20060108135917/Alberto






[ Top ] > Alberto

File Name	Date	Size
<input checked="" type="checkbox"/> <a href="#">test1.j</a>	Jan 08, 2006 13:58:53	0
<input checked="" type="checkbox"/> <a href="#">DAG.j</a>	Jan 08, 2006 13:59:04	566
<input checked="" type="checkbox"/> <a href="#">alberto.jdl</a>	Jan 08, 2006 13:59:10	166
<input checked="" type="checkbox"/> <a href="#">EtnaPerGRID.jdl</a>	Jan 08, 2006 13:59:17	1740

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Welcome to the GENIUS Portal - Mozilla

Grid Enabled web eNvironment for site Independent User job Submission

Welcome faizone Resource Broker: gilda\_glite Virtual Organization: gilda Catalog Type: fireman Catalog I/O: cnaf Your Data Logout

GENIUS Services

- File
- Security
- Accounting
- Job
- Data
  - Publish a File
  - Navigate Catalog
  - Manage Dir on Catalog
  - Rename on Catalog
- Info
- Monitoring
- Interactive
  - Open Desktop
  - Close Desktop
  - Set Desktop Password
- Preferences

From\_Catalog\_20

[ Top ] > Alberto

Toggle select

Clear select

Action...

Action...

Delete selected

-----

Create .zip

Create .tar

Create .tar.Z

Create .tgz

-----

Download selected

Save As

Nome: Alberto.2006-01-08.14-08-27.tar

Salva nella cartella: temp

Esplora altre cartelle

Home temp Nuova\_cartella

Desktop

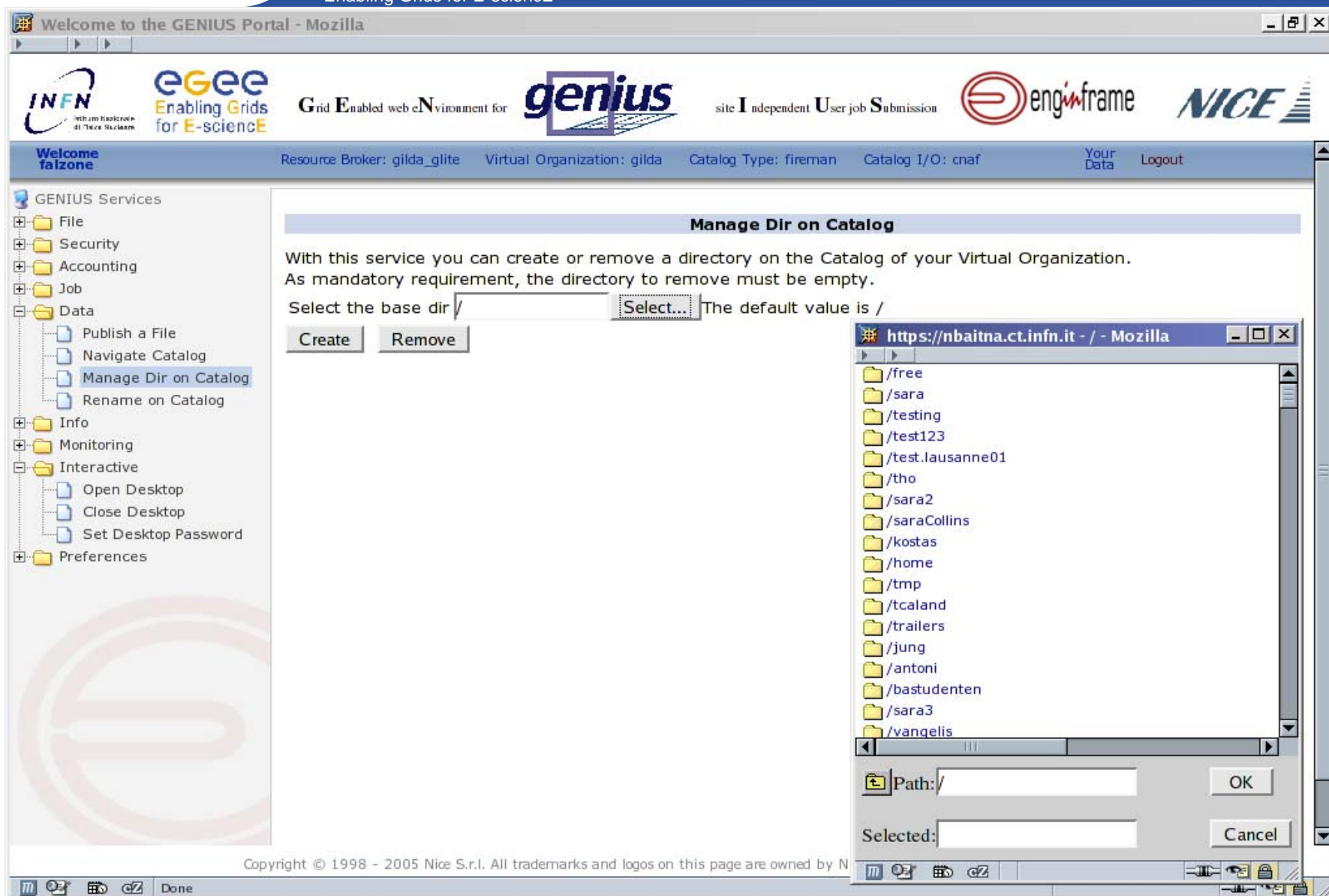
File system

Nome	Data modifica





Aggiungi Rimuovi \*.tar

Annulla Salva

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Welcome to the GENIUS Portal - Mozilla


Welcome **faizone**    Resource Broker: gilda\_glite    Virtual Organization: gilda    Catalog Type: fireman    Catalog I/O: cnaf    Your Data    Logout

**GENIUS Services**

- File
- Security
- Accounting
- Job
- Data
  - Publish a File
  - Navigate Catalog
  - Manage Dir on Catalog**
  - Rename on Catalog
- Info
- Monitoring
- Interactive
  - Open Desktop
  - Close Desktop
  - Set Desktop Password
- Preferences

**Manage Dir on Catalog**

With this service you can create or remove a directory on the Catalog of your Virtual Organization. As mandatory requirement, the directory to remove must be empty.

Select the base dir /   The default value is /

https://nbaitna.ct.infn.it - / - Mozilla

- /free
- /sara
- /testing
- /test123
- /test.lausanne01
- /tho
- /sara2
- /saraCollins
- /kostas
- /home
- /tmp
- /tcaland
- /trailers
- /jung
- /antoni
- /bastudenten
- /sara3
- /vangelis






Path: /        

Selected:

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- **EnginFrame: the Framework for Computing Portals/Gateways**
  - The long history from 3.2 to 4.1 version
  - Industrial adoption overview
- **GENIUS: new features, improvements**
  - The Changes in the backend and the stack on the gLite UI
  - New Features, Improvements
  - Management of User Security
- **GENIUSphere**
  - JSR168 compliance from GENIUS/EnginFrame
  - EnginFrame Portlets in GridSphere
- **Demo Session**
- **Q & A**

Welcome to GENIUSphere Portal - Mozilla

  **Enabling Grids for E-science** **Grid Enabled web eNvironment for**  **site Independent User job Submission**  

GENIUSphere  
Home

## Welcome to GENIUSphere


### Login


User Name

Password

Remember my login






[Forget your password?](#)

powered by  **enginframe portlets**

 **powered by gridsphere**

Taskbar: m, [icons], [system tray icons]

Welcome to GENIUSphere Portal - Mozilla

  **Enabling Grids for E-scienceE** **Grid Enabled web eNvironment for**  **site Independent User job Submission**  

GENIUSphere  
Home

## Welcome to GENIUSphere


### Login


User Name

Password

Remember my login



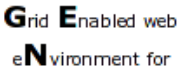



[Forget your password?](#)

powered by  **enginframe portlets**

 **powered by gridsphere**



Welcome to GENIUSphere Portal - Mozilla





 site Independent User job Submission
 

 Logout  
Welcome, NICE srl



Welcome | **EnginFrame Portlet**

Settings | Layout

### Profile Manager

#### Edit Settings for nice

Last Login Time: **Sunday, January 8, 2006 4:35:36 PM CET**

User Name: nice      Locale:   English

Full Name: NICE srl

Email Address: alberto@nice-italy.com      Timezone: Europe/Nicosia  
 Europe/Oslo  
 Europe/Paris  
 Europe/Prague  
 Europe/Riga  
 Europe/Rome

Organization:

#### Configure group membership

Groups:	Group Description:	Role in Group
<input checked="" type="checkbox"/>	enginframegroup	A EnginFrame group User

#### Update password

Enter original password:

Password:

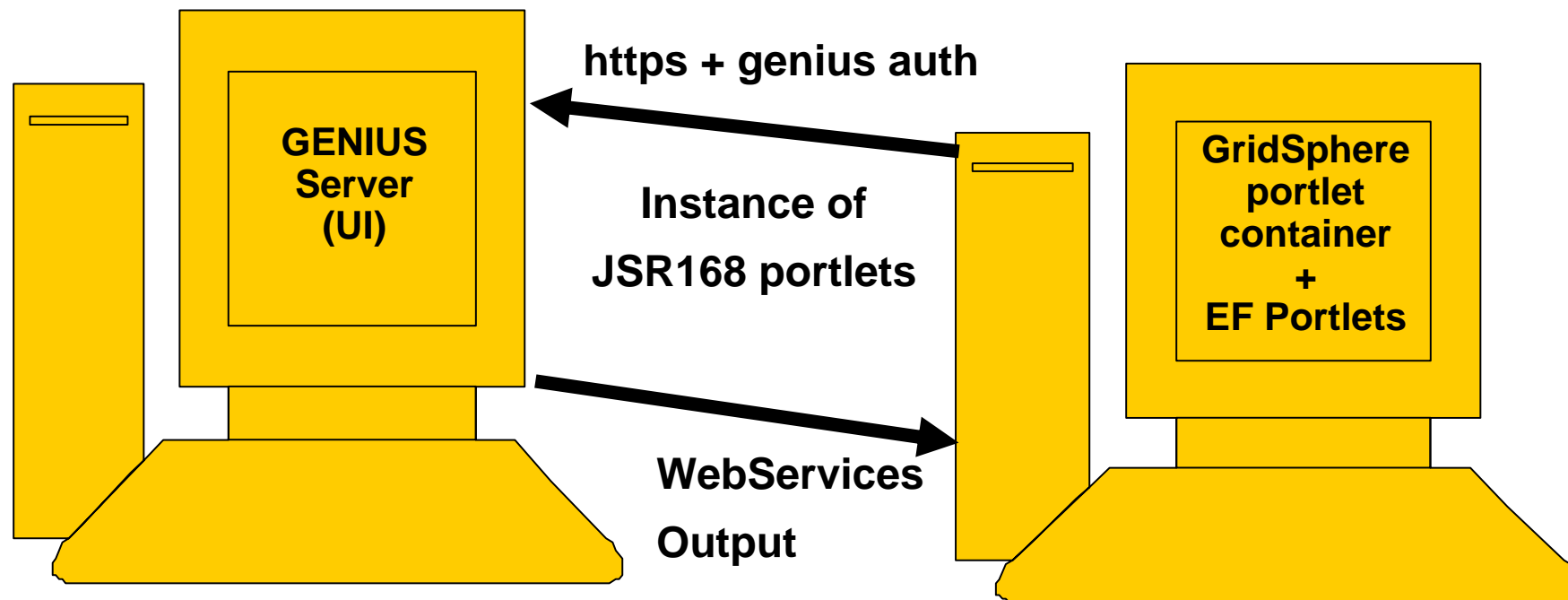
Confirm password:

#### Configure messaging service

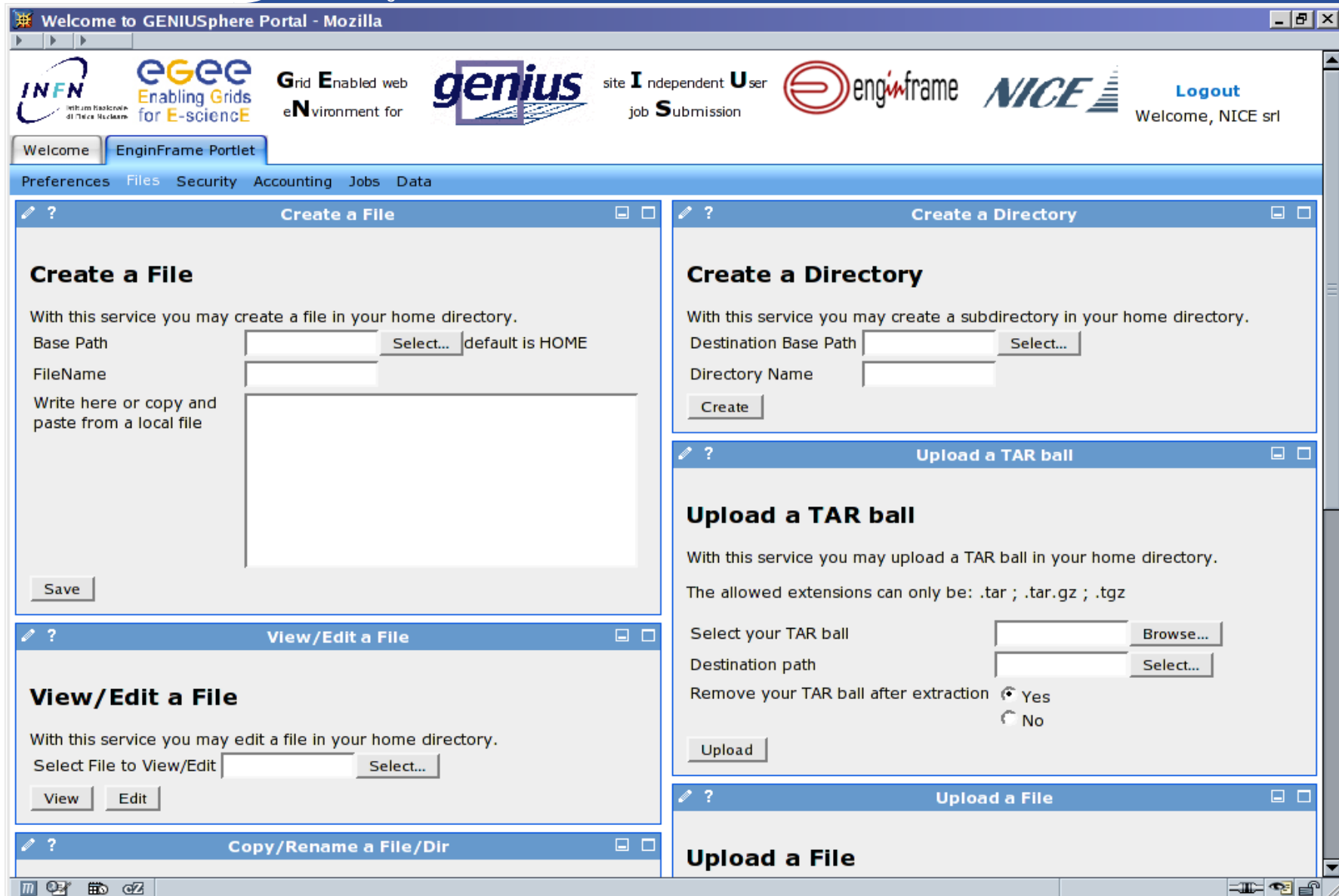
No Messaging service configured.

January 8, 2006

http://grid-dhcp09.ct.infn.it:8080/gridisphere/gridisphere?cid=58&JavaScript=enabled



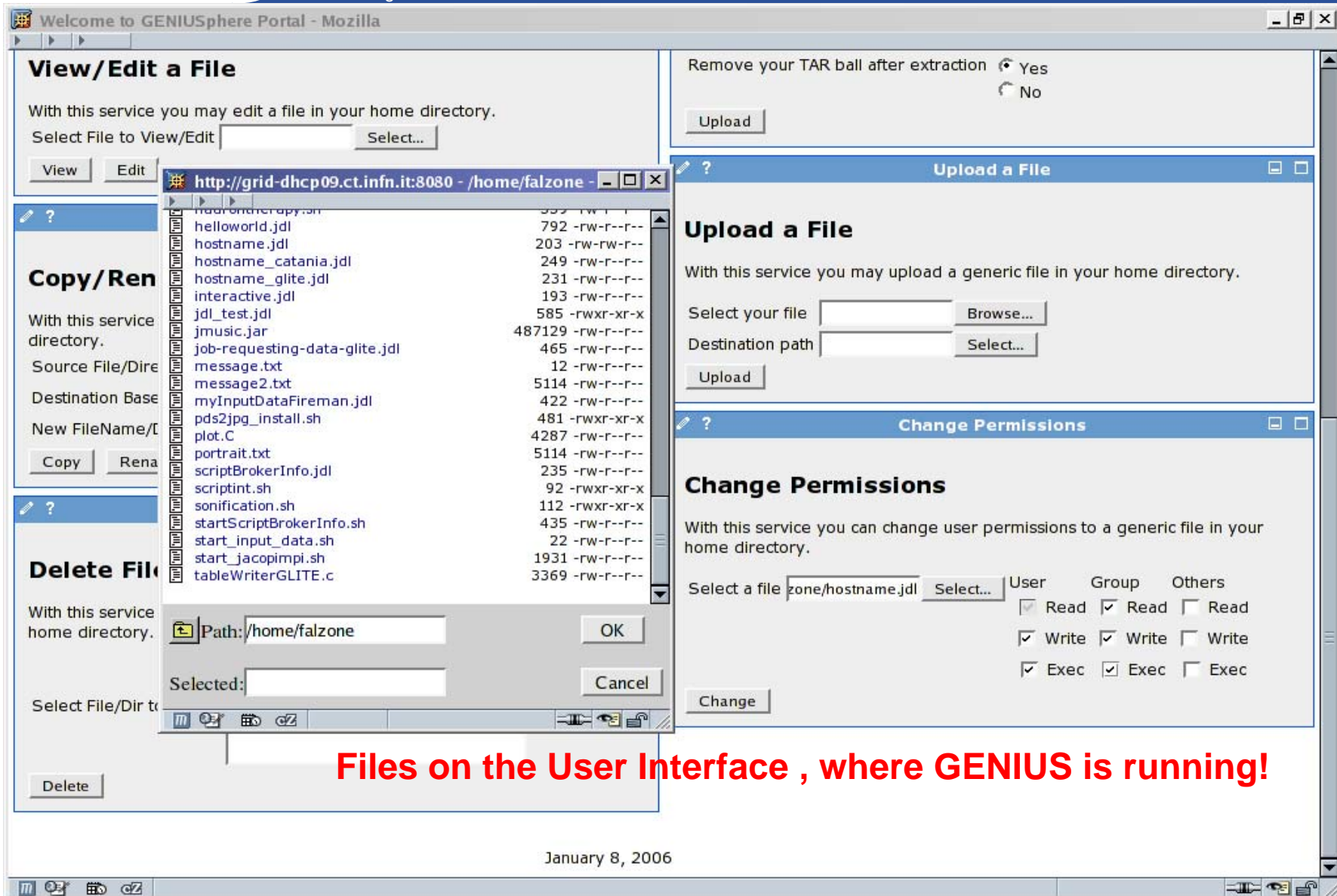
**Every Genius Service can be considered as a singol atom to build a specific custom portal based on a portlet container like GridSphere that can dialog with the EGEE Grid Middleware !**



The screenshot shows a web browser window titled "Welcome to GENIUSphere Portal - Mozilla". The page header includes logos for INFN, eGEE (Enabling Grids for E-scienceE), genius (site Independent User job Submission), EnginFrame, and NICE. A "Logout" link and "Welcome, NICE srl" message are also present. Below the header is a navigation menu with "Welcome" and "EnginFrame Portlet" tabs. A secondary menu includes "Preferences", "Files", "Security", "Accounting", "Jobs", and "Data".

The main content area is divided into several panels:

- Create a File:** A form with fields for "Base Path" (with a "Select..." button and "default is HOME" text), "FileName", and a large text area for "Write here or copy and paste from a local file". A "Save" button is at the bottom.
- Create a Directory:** A form with fields for "Destination Base Path" (with a "Select..." button) and "Directory Name". A "Create" button is at the bottom.
- Upload a TAR ball:** A form with fields for "Select your TAR ball" (with a "Browse..." button) and "Destination path" (with a "Select..." button). It includes radio buttons for "Remove your TAR ball after extraction" (Yes/No) and an "Upload" button.
- View/Edit a File:** A form with a "Select File to View/Edit" field (with a "Select..." button) and "View" and "Edit" buttons.
- Copy/Rename a File/Dir:** A partially visible form at the bottom left.
- Upload a File:** A partially visible form at the bottom right.



The screenshot shows the GENIUSphere Portal interface with several panels:

- View/Edit a File:** Includes a text input for file selection and buttons for 'View' and 'Edit'.
- Copy/Rename:** Includes fields for 'Source File/Directory', 'Destination Base', and 'New FileName/Location', with 'Copy' and 'Rename' buttons.
- Delete File:** Includes a 'Path' field and a 'Delete' button.
- Upload a File:** Includes a 'Select your file' field with a 'Browse...' button, a 'Destination path' field with a 'Select...' button, and an 'Upload' button.
- Change Permissions:** Includes a 'Select a file' field with a 'Select...' button and a table of permissions for User, Group, and Others.

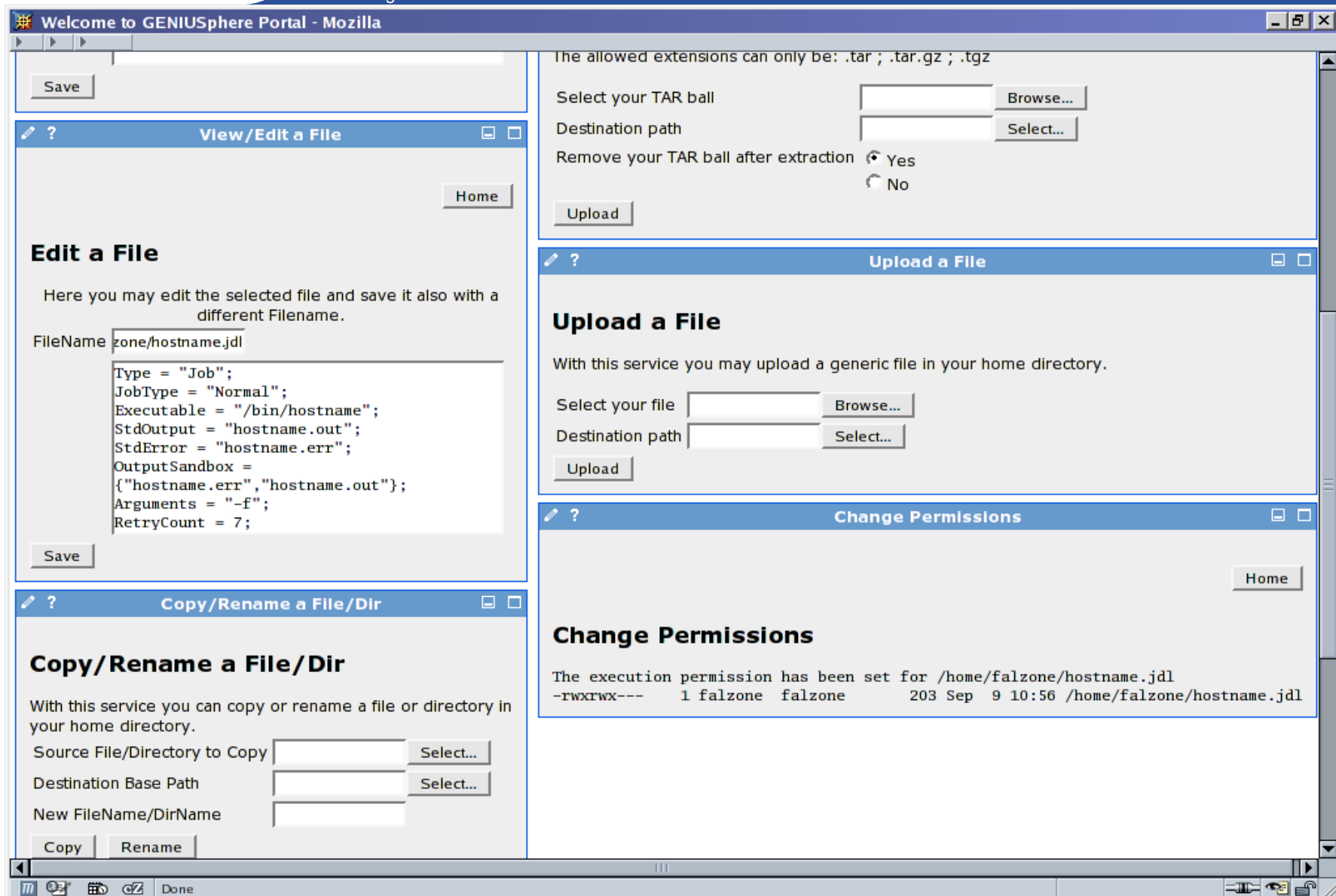
The file list overlay shows the following files and their permissions:

File Name	Permissions
helloworld.jdl	792 -rw-r--r--
hostname.jdl	203 -rw-rw-r--
hostname_catania.jdl	249 -rw-r--r--
hostname_glite.jdl	231 -rw-r--r--
interactive.jdl	193 -rw-r--r--
jdl_test.jdl	585 -rwxr-xr-x
jmusic.jar	487129 -rw-r--r--
job-requesting-data-glite.jdl	465 -rw-r--r--
message.txt	12 -rw-r--r--
message2.txt	5114 -rw-r--r--
myInputDataFireman.jdl	422 -rw-r--r--
pds2jpg_install.sh	481 -rwxr-xr-x
plot.C	4287 -rw-r--r--
portrait.txt	5114 -rw-r--r--
scriptBrokerInfo.jdl	235 -rw-r--r--
scriptint.sh	92 -rwxr-xr-x
sonification.sh	112 -rwxr-xr-x
startScriptBrokerInfo.sh	435 -rw-r--r--
start_input_data.sh	22 -rw-r--r--
start_jacopimpi.sh	1931 -rw-r--r--
tableWriterGLITE.c	3369 -rw-r--r--

The interface also includes a 'Remove your TAR ball after extraction' checkbox (set to 'Yes') and an 'Upload' button.

**Files on the User Interface , where GENIUS is running!**

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Welcome to GENIUSphere Portal - Mozilla

The allowed extensions can only be: .tar ; .tar.gz ; .tgz

Select your TAR ball  Browse...

Destination path  Select...

Remove your TAR ball after extraction  Yes  No

Upload

**View/Edit a File**

Home

**Edit a File**

Here you may edit the selected file and save it also with a different Filename.

FileName

```
Type = "Job";
JobType = "Normal";
Executable = "/bin/hostname";
StdOutput = "hostname.out";
StdError = "hostname.err";
OutputSandbox =
{"hostname.err", "hostname.out"};
Arguments = "-f";
RetryCount = 7;
```

Save

**Upload a File**

With this service you may upload a generic file in your home directory.

Select your file  Browse...

Destination path  Select...

Upload

**Change Permissions**

Home

**Change Permissions**

The execution permission has been set for /home/falzone/hostname.jdl

```
-rwxrwx--- 1 falzone falzone 203 Sep 9 10:56 /home/falzone/hostname.jdl
```

**Copy/Rename a File/Dir**

With this service you can copy or rename a file or directory in your home directory.

Source File/Directory to Copy  Select...

Destination Base Path  Select...

New FileName/DirName

Copy Rename

Welcome to GENIUSphere Portal - Mozilla

**View/Edit a File**

With this service you may edit a file in your home directory.  
 Select File to View/Edit

---

**Copy/Rename a File/Dir**

With this service you can copy or rename a file or directory in your home directory.

Source File/Directory to Copy

Destination Base Path

New FileName/DirName

---

**Delete Files/Dirs**

With this service you may delete one or more files or directories under your home directory.

Select File/Dir to delete

---

**Upload a File**

With this service you may upload a generic file in your home directory.

Select your file

Destination path






---

**Change Permissions**

```
The execution permission has been set for /home/falzone/hostname.jdl
-rwxrwx---  1 falzone falzone    203 Sep  9 10:56 /home/falzone/hostname.jdl
```

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Welcome to GENIUSphere Portal - Mozilla

Grid Enabled web environment for site Independent User job Submission

Logout  
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### Info on proxy

Refresh

```

subject : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it/CN=proxy/CN=proxy/CN=proxy
issuer  : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it/CN=proxy/CN=proxy
identity : /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it
type    : full legacy globus proxy
strength : 512 bits
path    : /tmp/x509up_u502
timeleft : 4:00:37
    
```

### Info on MyProxy

Refresh







```

MyProxy Server: grid001.ct.infn.it
username: falzone
owner: /C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it
timeleft: 77:29:10 (3.2 days)
    
```

### Info on VOMS proxy

Refresh

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### Check Balance

[Refresh](#)

**User Name** *Alberto Falzone*

**E-Mail** *alberto.falzone@ct.infn.it*

**Subject** */C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it*

**Assigned credits** 0

**Booked credits** 0

**Used credits** 31

**Used wall clock time (sec)** 387

**Used CPU time (sec)** 43

**Accounted jobs** 13

### Check CE(s) Price

[Home](#)

With this service you can browse the price of one(all) Computing Element(s) of the Testbed.

Computing Elements host name

[View Price](#)

ALL

ALL

cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite

cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-long

cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-short

dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-infinite

dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-long

dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-short

grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite

grid004.iucc.ac.il:2119/jobmanager-lcgpbs-long

grid004.iucc.ac.il:2119/jobmanager-lcgpbs-short

grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-infinite

grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-long

grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-short

grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-infinite

grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-long

grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short

gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-long

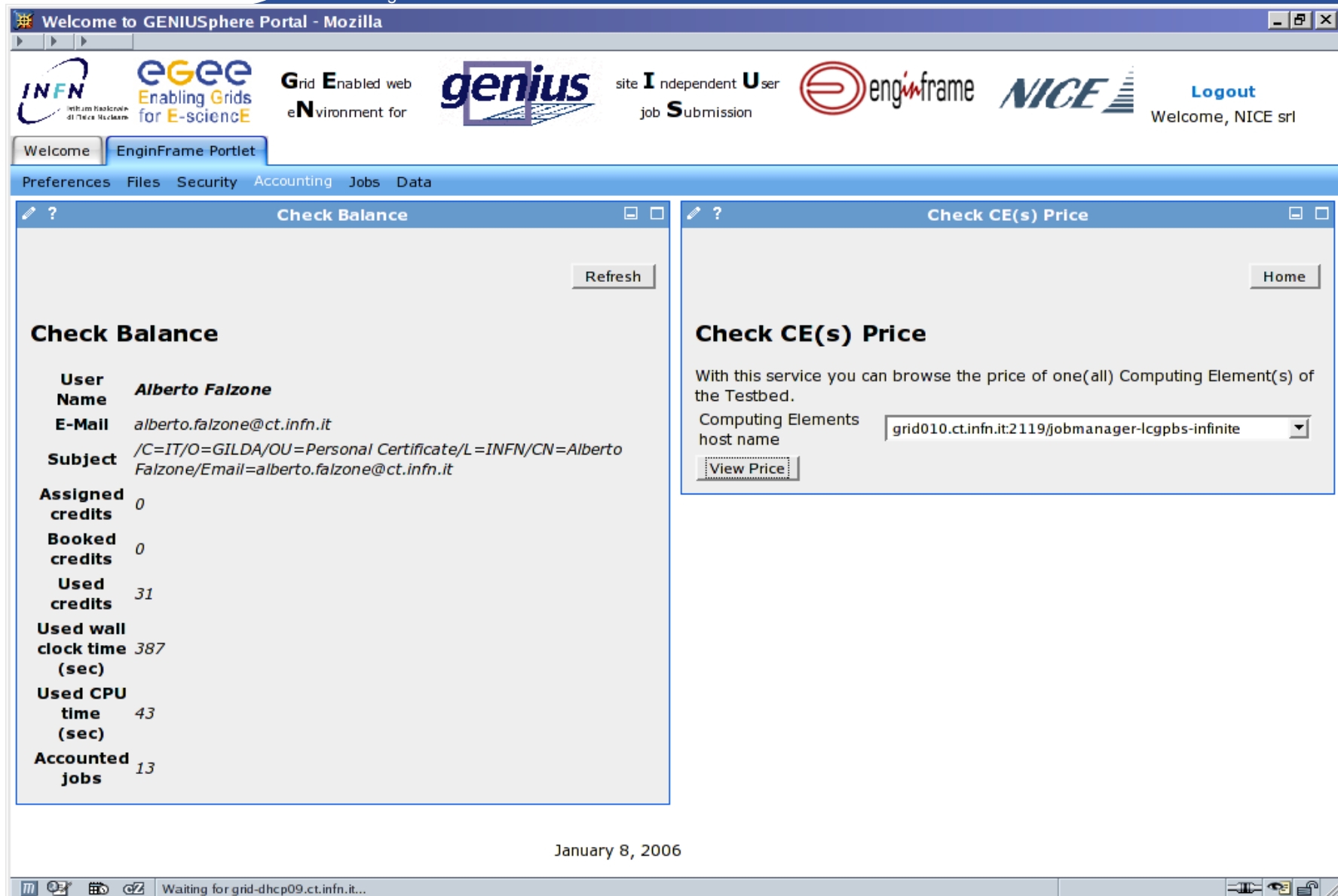
gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short

gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite






grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite

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### Check Balance

[Refresh](#)

**User Name** *Alberto Falzone*

**E-Mail** *alberto.falzone@ct.infn.it*

**Subject** */C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it*

**Assigned credits** 0

**Booked credits** 0

**Used credits** 31

**Used wall clock time (sec)** 387

**Used CPU time (sec)** 43

**Accounted jobs** 13

### Check CE(s) Price

[Home](#)

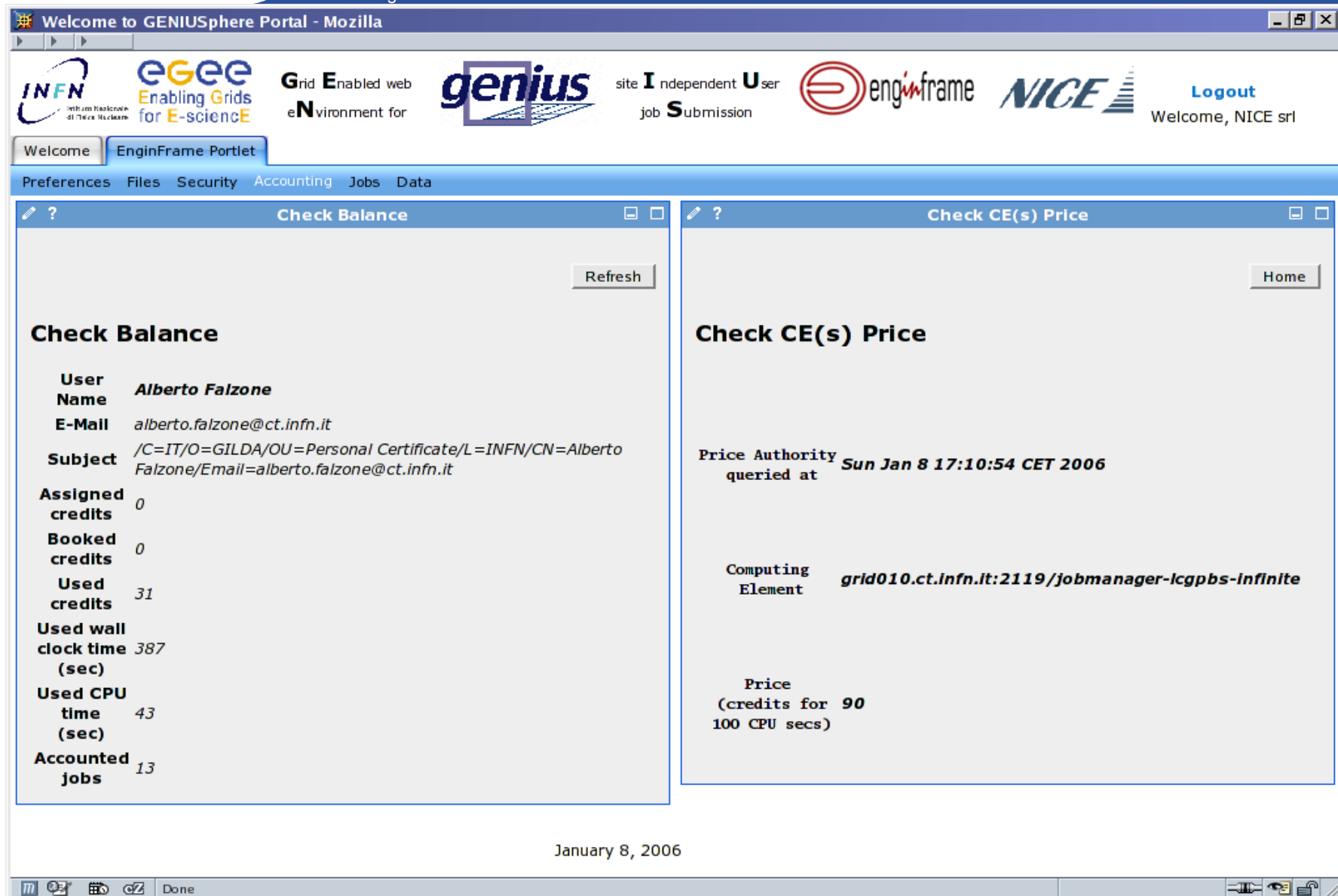
With this service you can browse the price of one(all) Computing Element(s) of the Testbed.

Computing Elements host name






[View Price](#)

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Waiting for grid-dhcp09.ct.infn.it...



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Logout  
Welcome, NICE srl

Welcome | **EnginFrame Portlet**

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### Check Balance

[Refresh](#)

**User Name** *Alberto Falzone*

**E-Mail** *alberto.falzone@ct.infn.it*

**Subject** */C=IT/O=GILDA/OU=Personal Certificate/L=INFN/CN=Alberto Falzone/Email=alberto.falzone@ct.infn.it*

**Assigned credits** 0

**Booked credits** 0

**Used credits** 31

**Used wall clock time (sec)** 387

**Used CPU time (sec)** 43

**Accounted jobs** 13

### Check CE(s) Price

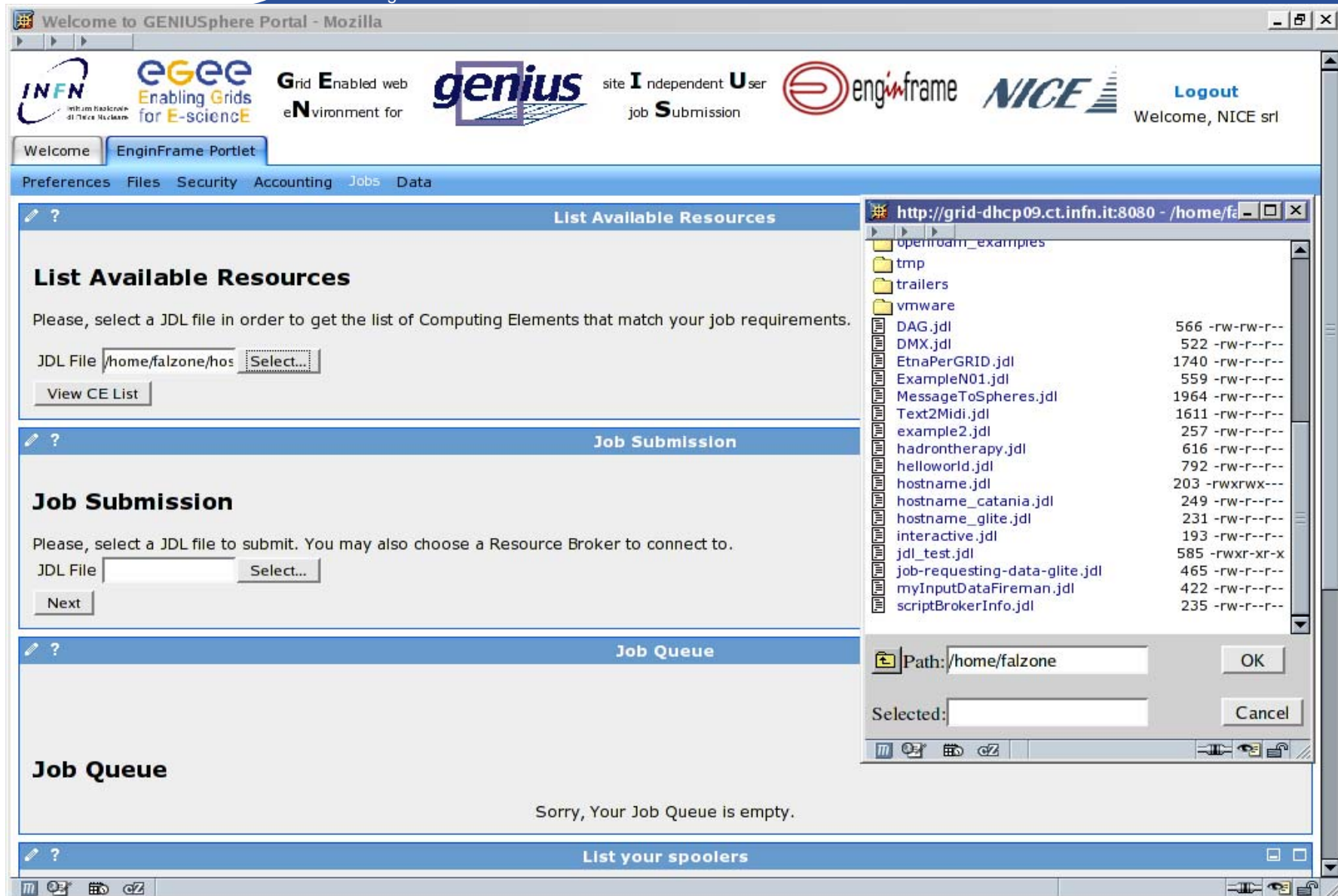
[Home](#)

**Price Authority queried at** *Sun Jan 8 17:10:54 CET 2006*






**Computing Element** *grid010.ct.infn.it:2119/jobmanager-icgpbs-infinite*

**Price (credits for 90 100 CPU secs)**

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### List Available Resources

Please, select a JDL file in order to get the list of Computing Elements that match your job requirements.

JDL File

### Job Submission

Please, select a JDL file to submit. You may also choose a Resource Broker to connect to.

JDL File

### Job Queue

Sorry, Your Job Queue is empty.

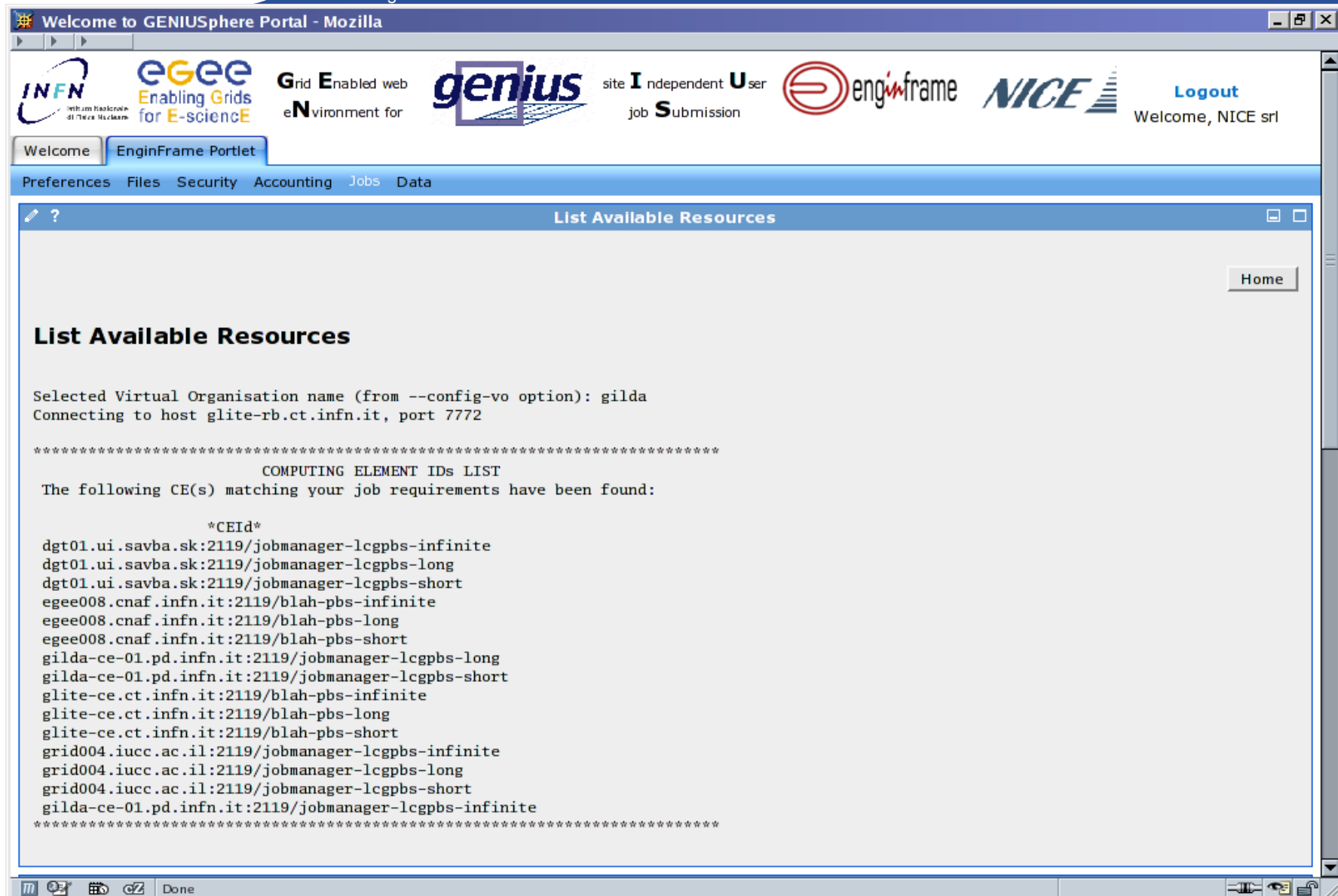
### List your spoolers

http://grid-dhcp09.ct.infn.it:8080 - /home/fa






- openroam\_examples
- tmp
- trailers
- vmware
- DAG.jdl 566 -rw-rw-r--
- DMX.jdl 522 -rw-r--r--
- EtnaPerGRID.jdl 1740 -rw-r--r--
- ExampleN01.jdl 559 -rw-r--r--
- MessageToSpheres.jdl 1964 -rw-r--r--
- Text2Midi.jdl 1611 -rw-r--r--
- example2.jdl 257 -rw-r--r--
- hadrontherapy.jdl 616 -rw-r--r--
- helloworld.jdl 792 -rw-r--r--
- hostname.jdl 203 -rwxrwx---
- hostname\_catania.jdl 249 -rw-r--r--
- hostname\_glite.jdl 231 -rw-r--r--
- interactive.jdl 193 -rw-r--r--
- jdl\_test.jdl 585 -rwxr-xr-x
- job-requesting-data-glite.jdl 465 -rw-r--r--
- myInputDataFireman.jdl 422 -rw-r--r--
- scriptBrokerInfo.jdl 235 -rw-r--r--

Path:

Selected:



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## List Available Resources

Home

List Available Resources

Selected Virtual Organisation name (from --config-vo option): gilda  
Connecting to host glite-rb.ct.infn.it, port 7772

\*\*\*\*\*  
COMPUTING ELEMENT IDs LIST  
The following CE(s) matching your job requirements have been found:

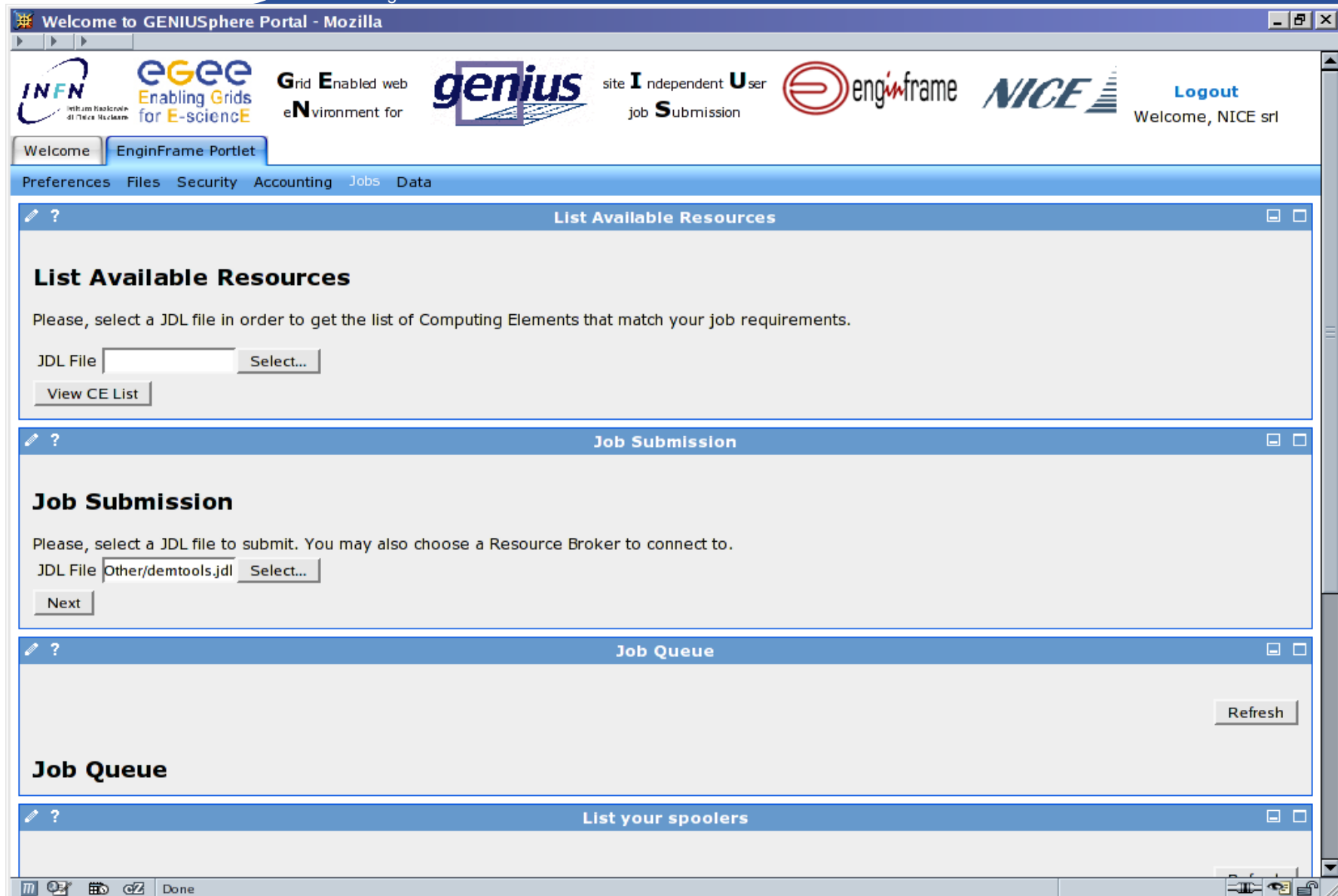
\*CEId\*

```

dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-infinite
dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-long
dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-short
egee008.cnaf.infn.it:2119/blah-pbs-infinite
egee008.cnaf.infn.it:2119/blah-pbs-long
egee008.cnaf.infn.it:2119/blah-pbs-short
gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-long
gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short
glite-ce.ct.infn.it:2119/blah-pbs-infinite
glite-ce.ct.infn.it:2119/blah-pbs-long
glite-ce.ct.infn.it:2119/blah-pbs-short
grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite
grid004.iucc.ac.il:2119/jobmanager-lcgpbs-long
grid004.iucc.ac.il:2119/jobmanager-lcgpbs-short
gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite

```

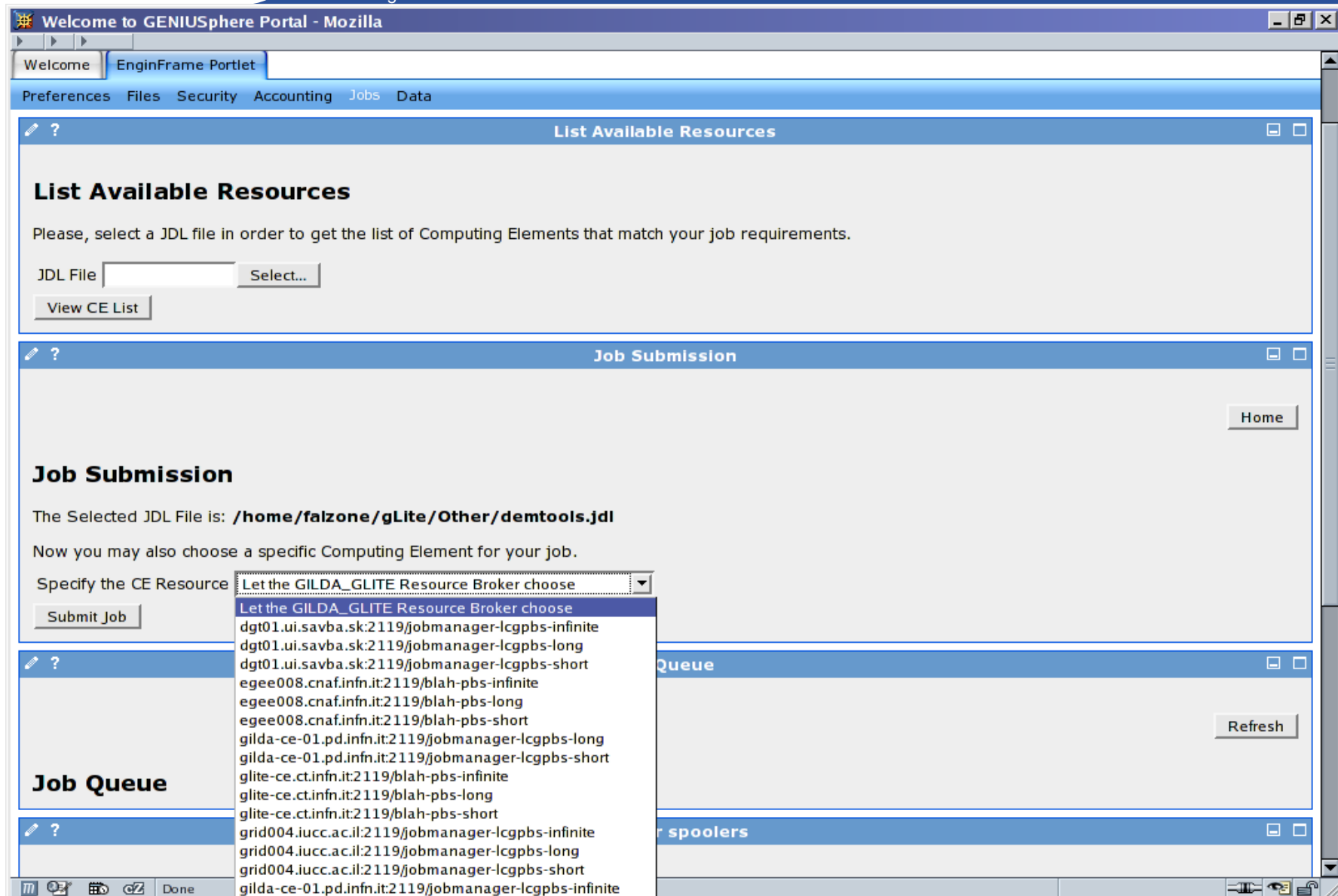
\*\*\*\*\*



The screenshot shows a Mozilla browser window titled "Welcome to GENIUSphere Portal - Mozilla". The page header includes logos for INFN, eGEE (Enabling Grids for E-science), genius (site Independent User job Submission), EnginFrame, and NICE. A "Logout" link and the text "Welcome, NICE srl" are also present. Below the header is a navigation menu with "Welcome" and "EnginFrame Portlet" selected. The main content area contains four panels:

- List Available Resources:** A panel with a title bar "List Available Resources". It contains the text "Please, select a JDL file in order to get the list of Computing Elements that match your job requirements." Below this is a "JDL File" input field with a "Select..." button and a "View CE List" button.
- Job Submission:** A panel with a title bar "Job Submission". It contains the text "Please, select a JDL file to submit. You may also choose a Resource Broker to connect to." Below this is a "JDL File" input field containing "Other/demtools.jdl" with a "Select..." button and a "Next" button.
- Job Queue:** A panel with a title bar "Job Queue". It contains a "Refresh" button.
- List your spoolers:** A panel with a title bar "List your spoolers".

The browser's status bar at the bottom shows "Done" and various system icons.



Welcome to GENIUSphere Portal - Mozilla

EnginFrame Portlet

Preferences Files Security Accounting Jobs Data

### List Available Resources

Please, select a JDL file in order to get the list of Computing Elements that match your job requirements.

JDL File

### Job Submission

The Selected JDL File is: **/home/falzone/gLite/Other/demtools.jdl**

Now you may also choose a specific Computing Element for your job.

Specify the CE Resource

Let the GILDA\_GLITE Resource Broker choose

- dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-infinite
- dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-long
- dgt01.ui.savba.sk:2119/jobmanager-lcgpbs-short
- egee008.cnaf.infn.it:2119/blah-pbs-infinite
- egee008.cnaf.infn.it:2119/blah-pbs-long
- egee008.cnaf.infn.it:2119/blah-pbs-short
- gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-long
- gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short
- glite-ce.ct.infn.it:2119/blah-pbs-infinite
- glite-ce.ct.infn.it:2119/blah-pbs-long
- glite-ce.ct.infn.it:2119/blah-pbs-short
- grid004.iucc.ac.il:2119/jobmanager-lcgpbs-infinite
- grid004.iucc.ac.il:2119/jobmanager-lcgpbs-long
- grid004.iucc.ac.il:2119/jobmanager-lcgpbs-short
- gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite

### Job Queue

### spoolers

Welcome to GENIUSphere Portal - Mozilla

Please, select a JDL file in order to get the list of Computing Elements that match your job requirements.

JDL File

---

**Job Submission**

Selected Virtual Organisation name (from --vo option): gilda  
 Connecting to host glite-rb.ct.infn.it, port 7772  
 Logging to host glite-rb.ct.infn.it, port 9002

```

===== glite-job-submit Success =====
The job has been successfully submitted to the Network Server.
Use glite-job-status command to check job current status. Your job identifier is:

- https://glite-rb.ct.infn.it:9000/f_eYE57Bae_s91QYmny5Zw






The job identifier has been saved in the following file:
/home/falzone/.genius/.tmp_submittedjob_falzone
=====
    
```

---

**Job Queue**

#	Globus Job ID	Last Update Time	Status	Destination	Exit Code	Name
2	f_eYE57Bae_s91QYmny5Zw	2006 Jan 8 17:35	Ready	glite-ce.ct.infn.it2119/blah-pbs-infinite		demtools.jdl

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### Job Queue

Refresh

#	Globus Job ID	Last Update Time	Status	Destination	Exit Code	Name
2	f_eYE57Bae_s91QYmny5Zw	2006 Jan 8 17:35	Done	glite-ce.ct.infn.it:2119/blah-pbs-infinite	0	demtools.jdl



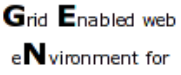



http://grid-dhcp09.ct.infn.it:8080

Do you really want to get output of job https://glite-rb.ct.infn.it:9000/f\_eYE57Bae\_s91QYmny5Zw?

OK Cancel



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 site Independent User  
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### Job Queue

Home

20060108\_174300\_f\_eYE57Bae\_s91QYm Jan 09, 2006 17:42:50

Toggle select  demtools.err Jan 08, 2006 17:42:52 0

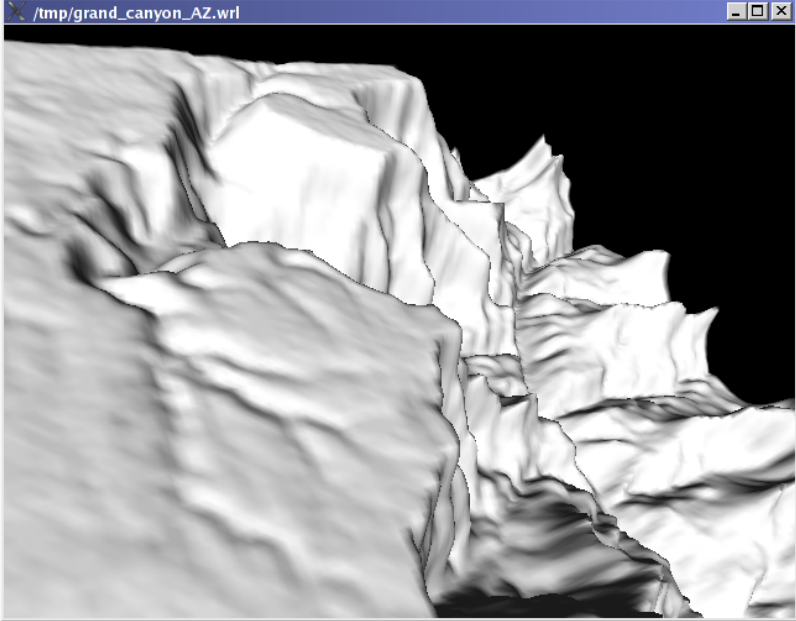
Clear select  grand\_canyon\_AZ.ppm Jan 08, 2006 17:42:54 1604909

Action...  grand\_canyon\_AZ.wrl Jan 08, 2006 17:42:55 971259







/tmp/grand\_canyon\_AZ.wrl .ppm Jan 08, 2006 17:42:53 1404771

.wrl Jan 08, 2006 17:42:54 837421

Jan 08, 2006 17:42:52 2394



Welcome to GENIUSphere Portal - Mozilla





 site **I**ndependent **U**ser  
job **S**ubmission
 

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Welcome | **EnginFrame Portlet**

Preferences | Files | Security | Accounting | **Jobs** | Data

### Job Queue






Home

20060108\_174300\_f\_eYE57Bae\_s91QYm Jan 09, 2006 17:42:50

File Name	Time	Count
<input checked="" type="checkbox"/> demtools.err	Jan 08, 2006 17:42:52	0
<input checked="" type="checkbox"/> grand_canyon_AZ.ppm	Jan 08, 2006 17:42:54	1604909
<input checked="" type="checkbox"/> grand_canyon_AZ.wrl	Jan 08, 2006 17:42:55	971259
<input checked="" type="checkbox"/> mount_sainte_helens_WA.ppm	Jan 08, 2006 17:42:53	1404771
<input checked="" type="checkbox"/> mount_sainte_helens_WA.wrl	Jan 08, 2006 17:42:54	837421
<input checked="" type="checkbox"/> demtools.out.txt	Jan 08, 2006 17:42:52	2394

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**Grid Enabled web eNvironment for**

 site **I**ndependent **U**ser job **S**ubmission
 

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### Job Queue

Home

20060108\_174300\_f\_eYE57Bae\_s91QYm Jan 09, 2006 17:42:50

File Name	Time	Count
<input type="checkbox"/> demtools.err	Jan 08, 2006 17:42:52	0
<input type="checkbox"/> zip_log.txt	Jan 08, 2006 17:48:12	271
<input type="checkbox"/> grand_canyon_AZ.ppm	Jan 08, 2006 17:42:54	1604909
<input type="checkbox"/> grand_canyon_AZ.wrl	Jan 08, 2006 17:42:55	971259
<input type="checkbox"/> mount_sainte_helens_WA.ppm	Jan 08, 2006 17:42:53	1404771
<input type="checkbox"/> mount_sainte_helens_WA.wrl	Jan 08, 2006 17:42:54	837421
<input type="checkbox"/> demtools.out.txt	Jan 08, 2006 17:42:52	2394
<input type="checkbox"/> tmp17649.2006-01-08.17-48-11.zip	Jan 08, 2006 17:48:12	753662

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**Save As**







Nome: tmp17649.2006-01-08.17-48-11.zip

Salva nella cartella: temp

Esplora altre cartelle

http://grid-dhcp09.ct.infn.it:8080/efportlet/download/tmp17649.2006-01-08.17-48-11.zip

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Preferences | Files | Security | Accounting | Jobs | Data

### Job Queue

Home

20060108\_174300\_f\_eYE57Bae\_s91QYm Jan 09, 2006 17:42:50

File Name	Date	Size
<input type="checkbox"/> demtools.err	Jan 08, 2006 17:42:52	0
<input type="checkbox"/> zip_log.txt	Jan 08, 2006 17:48:12	271
<input type="checkbox"/> grand_canyon_AZ.ppm	Jan 08, 2006 17:42:54	1604909
<input type="checkbox"/> grand_canyon_AZ.wrl	Jan 08, 2006 17:42:55	971259
<input type="checkbox"/> mount_sainte_helens_WA.ppm		1404771
<input type="checkbox"/> mount_sainte_helens_WA.wrl		837421
<input type="checkbox"/> demtools.out.txt		2394
<input type="checkbox"/> tmp17649.2006-01-08.17-48-11...		753662

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64% of tmp17649.2006-01-08.17-48-11.zip Saved

Saving From: http://grid-dhcp09.ct.infn.it:8080/efportlet/download/...

To: /home/alberto/temp/tmp17649.2006-01-08.17-48-11.zip

Status: 474KB of 736KB (at 232.0KB/sec)

Time Left: 00:01

Time Elapsed: 00:02

Progress:  64%

Keep this window open after the download is complete.

Cancel Pause Launch File Show File Location

http://grid-dhcp09.ct.infn.it:8080/efportlet/download/tmp17649.2006-01-08.17-48-11.zip

Welcome to GENIUSphere Portal - Mozilla

20060108\_174300\_f\_eYE57Bae\_s91QYm Jan 16, 2006 17:42:50

Toggle select Clear select Action...

<input type="checkbox"/>	demtools.err	Jan 08, 2006 17:42:52	0
<input type="checkbox"/>	zip_log.txt	Jan 08, 2006 17:48:12	271
<input type="checkbox"/>	grand_canyon_AZ.ppm	Jan 08, 2006 17:42:54	1604909
<input type="checkbox"/>	grand_canyon_AZ.wrl	Jan 08, 2006 17:42:55	971259
<input type="checkbox"/>	mount_sainte_helens_WA.ppm	Jan 08, 2006 17:42:53	1404771
<input type="checkbox"/>	mount_sainte_helens_WA.wrl	Jan 08, 2006 17:42:54	837421
<input type="checkbox"/>	demtools.out.txt	Jan 08, 2006 17:42:52	2394
<input type="checkbox"/>	tmp17649.2006-01-08.17-48-11.zip	Jan 08, 2006 17:48:12	753662

---

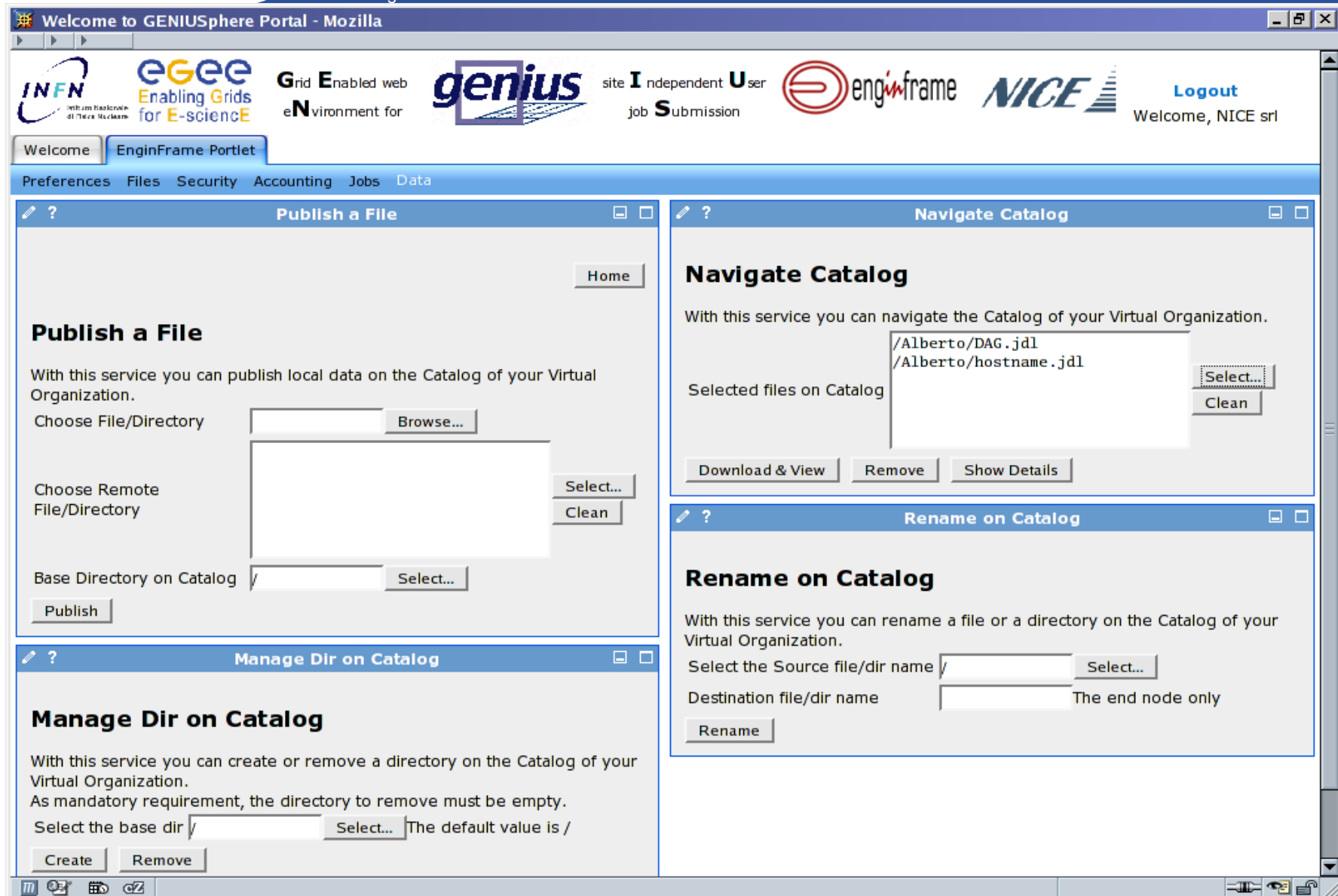
List your spoolers

Refresh






	Name	Created on	Deletion on	Items
<input type="checkbox"/>	20060108_174300_f_eYE57Bae_s91QYmny5Zw	Jan 08, 2006 17:42:50	Jan 16, 2006 17:42:50	8
<input type="checkbox"/>	20060108_172553_Tc015MBHBRTKp-RgpGmbMg	Jan 08, 2006 17:25:45	Jan 09, 2006 17:25:45	2
<input type="checkbox"/>	20060108_154506_BFpXqz8-Qk6GI52UO8Q8cg	Jan 08, 2006 15:44:59	Jan 09, 2006 15:44:59	2
<input type="checkbox"/>	20060108_154248_8rx1w7Kw4bO1ZMXHqFChHw	Jan 08, 2006 15:42:40	Jan 09, 2006 15:42:40	3
<input type="checkbox"/>	20060108_145638_QMI6fXx-KN1oHNm2HIP3rA	Jan 08, 2006 14:56:30	Jan 16, 2006 14:56:30	2
<input type="checkbox"/>	From_Catalog_20060108135917	Jan 08, 2006 13:58:50	Jan 09, 2006 13:58:50	1
<input type="checkbox"/>	From_Catalog_20060108135656	Jan 08, 2006 13:56:25	Jan 09, 2006 13:56:25	1
<input checked="" type="checkbox"/>	tmp17054.ef	Jan 08, 2006 13:52:50	Jan 09, 2006 13:52:50	1

Toggle select Clear select Delete

January 8, 2006



Welcome to GENIUSphere Portal - Mozilla

Grid Enabled web environment for site Independent User job Submission

Logout  
Welcome, NICE srl

Welcome EnginFrame Portlet

Preferences Files Security Accounting Jobs Data

### Publish a File

Home

**Publish a File**

With this service you can publish local data on the Catalog of your Virtual Organization.

Choose File/Directory

Choose Remote File/Directory

Base Directory on Catalog

### Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization.

Selected files on Catalog

```

/Alberto/DAG.jdl
/Alberto/hostname.jdl
    
```

### Manage Dir on Catalog

With this service you can create or remove a directory on the Catalog of your Virtual Organization.

As mandatory requirement, the directory to remove must be empty.

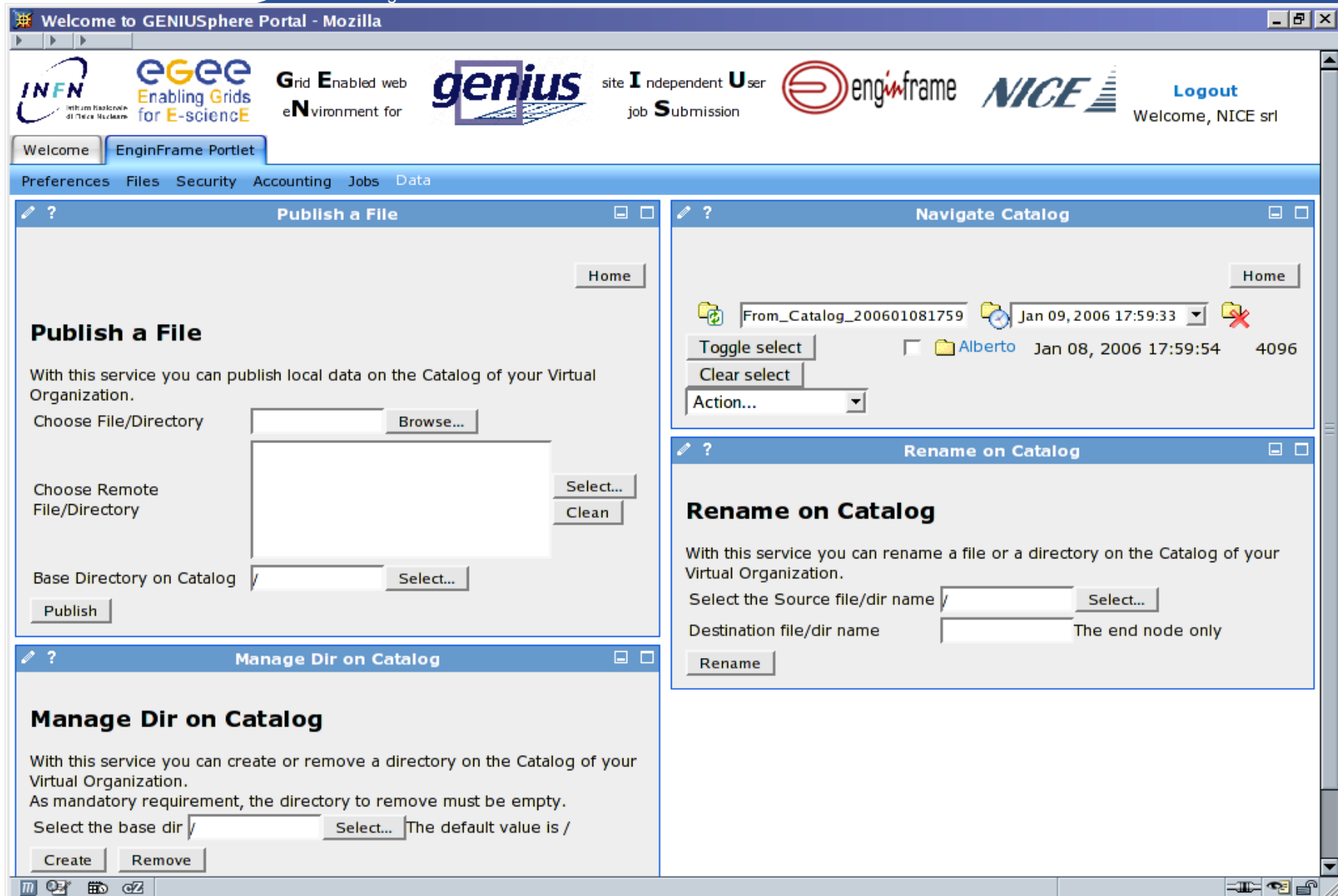
Select the base dir   The default value is /

### Rename on Catalog






With this service you can rename a file or a directory on the Catalog of your Virtual Organization.

Select the Source file/dir name

Destination file/dir name  The end node only



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Preferences | Files | Security | Accounting | Jobs | Data

### Publish a File

Home

**Publish a File**

With this service you can publish local data on the Catalog of your Virtual Organization.

Choose File/Directory

Choose Remote File/Directory

Base Directory on Catalog /

### Navigate Catalog

Home

From_Catalog_200601081759	Jan 09, 2006 17:59:33	
Alberto	Jan 08, 2006 17:59:54	4096

### Rename on Catalog

With this service you can rename a file or a directory on the Catalog of your Virtual Organization.

Select the Source file/dir name /

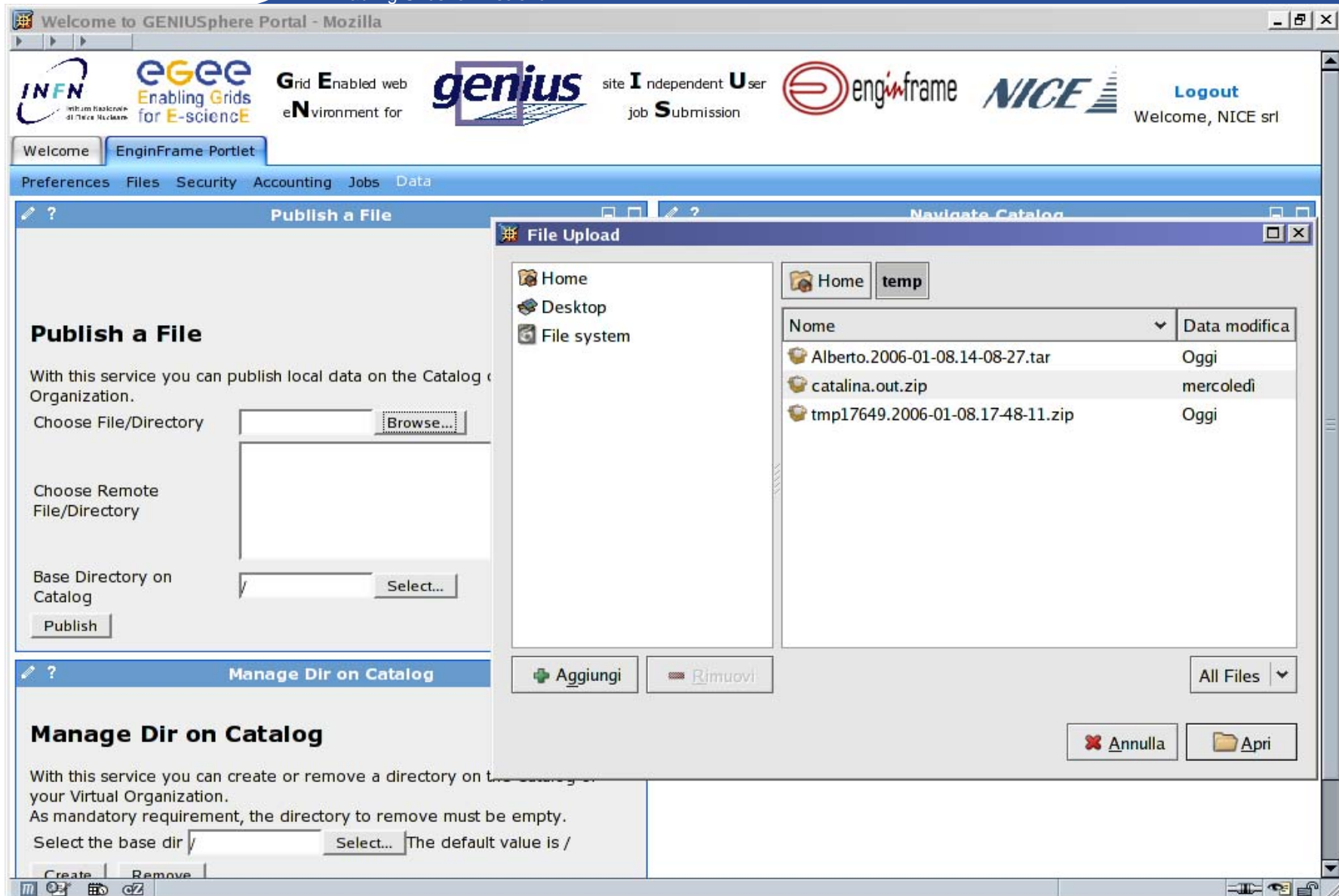
Destination file/dir name  The end node only

### Manage Dir on Catalog






With this service you can create or remove a directory on the Catalog of your Virtual Organization.

As mandatory requirement, the directory to remove must be empty.

Select the base dir /   The default value is /



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Preferences | Files | Security | Accounting | Jobs | Data

### Publish a File

With this service you can publish local data on the Catalog of your Organization.

Choose File/Directory:

Choose Remote File/Directory:

Base Directory on Catalog:

### File Upload

Home | temp

Nome	Data modifica
Alberto.2006-01-08.14-08-27.tar	Oggi
catalina.out.zip	mercoledì
tmp17649.2006-01-08.17-48-11.zip	Oggi

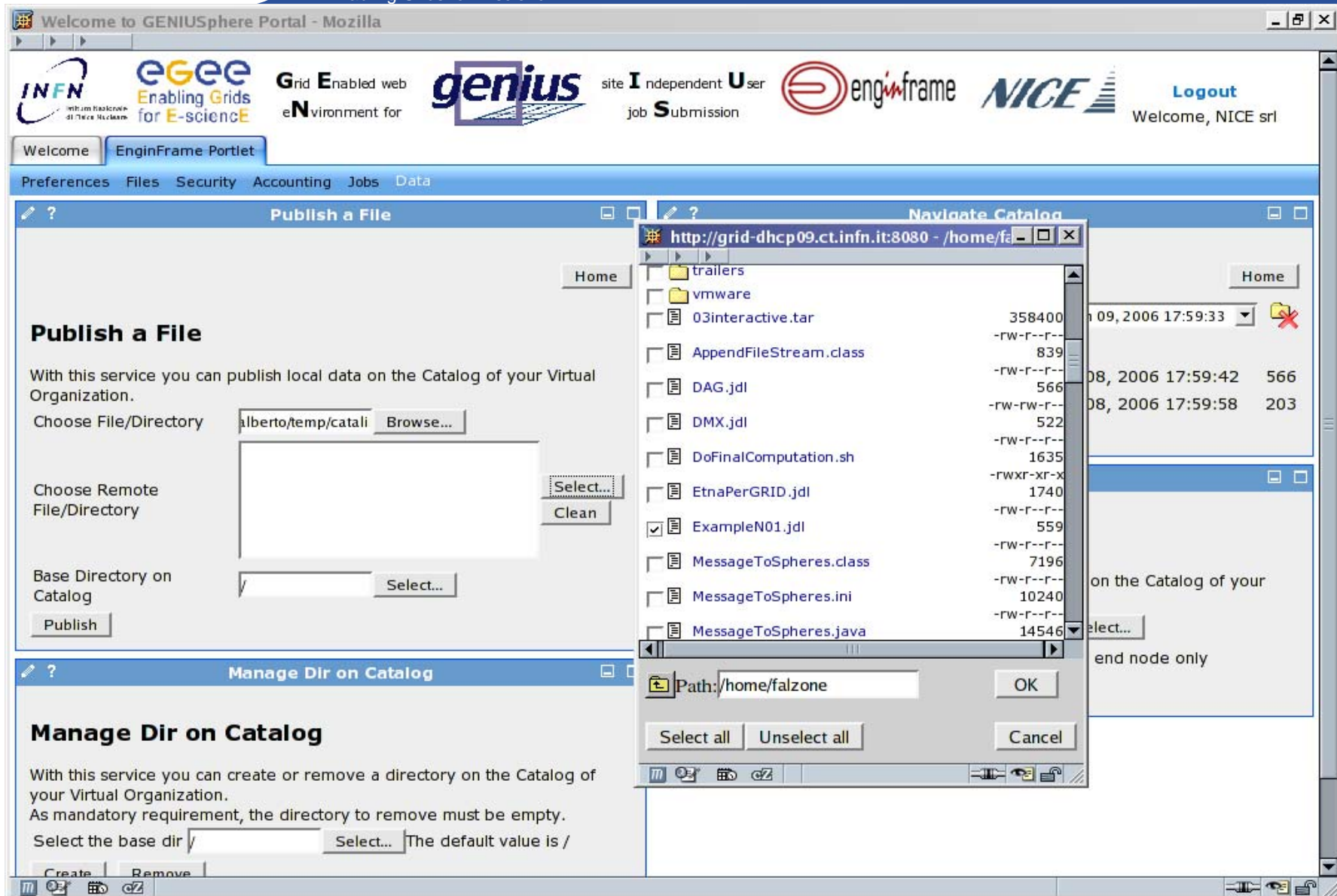
### Manage Dir on Catalog

With this service you can create or remove a directory on the Catalog of your Virtual Organization.






As mandatory requirement, the directory to remove must be empty.

Select the base dir /   The default value is /





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Logout  
Welcome, NICE srl

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Preferences | Files | Security | Accounting | Jobs | Data

### Publish a File

With this service you can publish local data on the Catalog of your Virtual Organization.

Choose File/Directory:

Choose Remote File/Directory:

Base Directory on Catalog:

### Manage Dir on Catalog

With this service you can create or remove a directory on the Catalog of your Virtual Organization.

As mandatory requirement, the directory to remove must be empty.

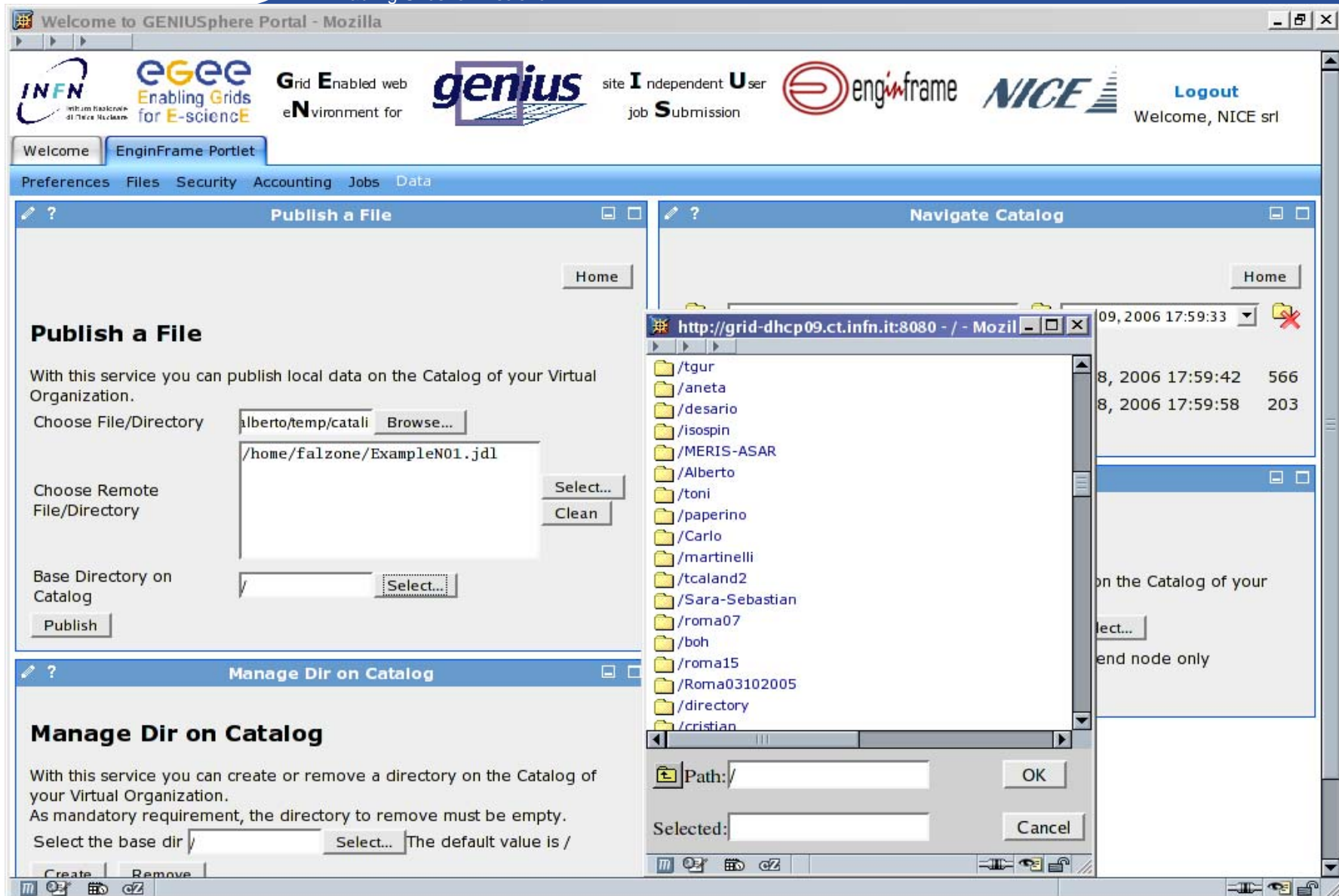
Select the base dir   The default value is /

### Navigate Catalog






http://grid-dhcp09.ct.infn.it:8080 - /home/falzone

trailers			
vmware			
03interactive.tar	358400	09, 2006 17:59:33	
AppendFileStream.class	839		
DAG.jdl	566	08, 2006 17:59:42	566
DMX.jdl	522	08, 2006 17:59:58	203
DoFinalComputation.sh	1635		
EtnaPerGRID.jdl	1740		
ExampleN01.jdl	559		
MessageToSpheres.class	7196		
MessageToSpheres.ini	10240		
MessageToSpheres.java	14546		

Path: /home/falzone



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Preferences | Files | Security | Accounting | Jobs | Data

### Publish a File

With this service you can publish local data on the Catalog of your Virtual Organization.

Choose File/Directory:

Choose Remote File/Directory:

Base Directory on Catalog:

### Navigate Catalog

09, 2006 17:59:33

8, 2006 17:59:42	566
8, 2006 17:59:58	203

on the Catalog of your

lect...

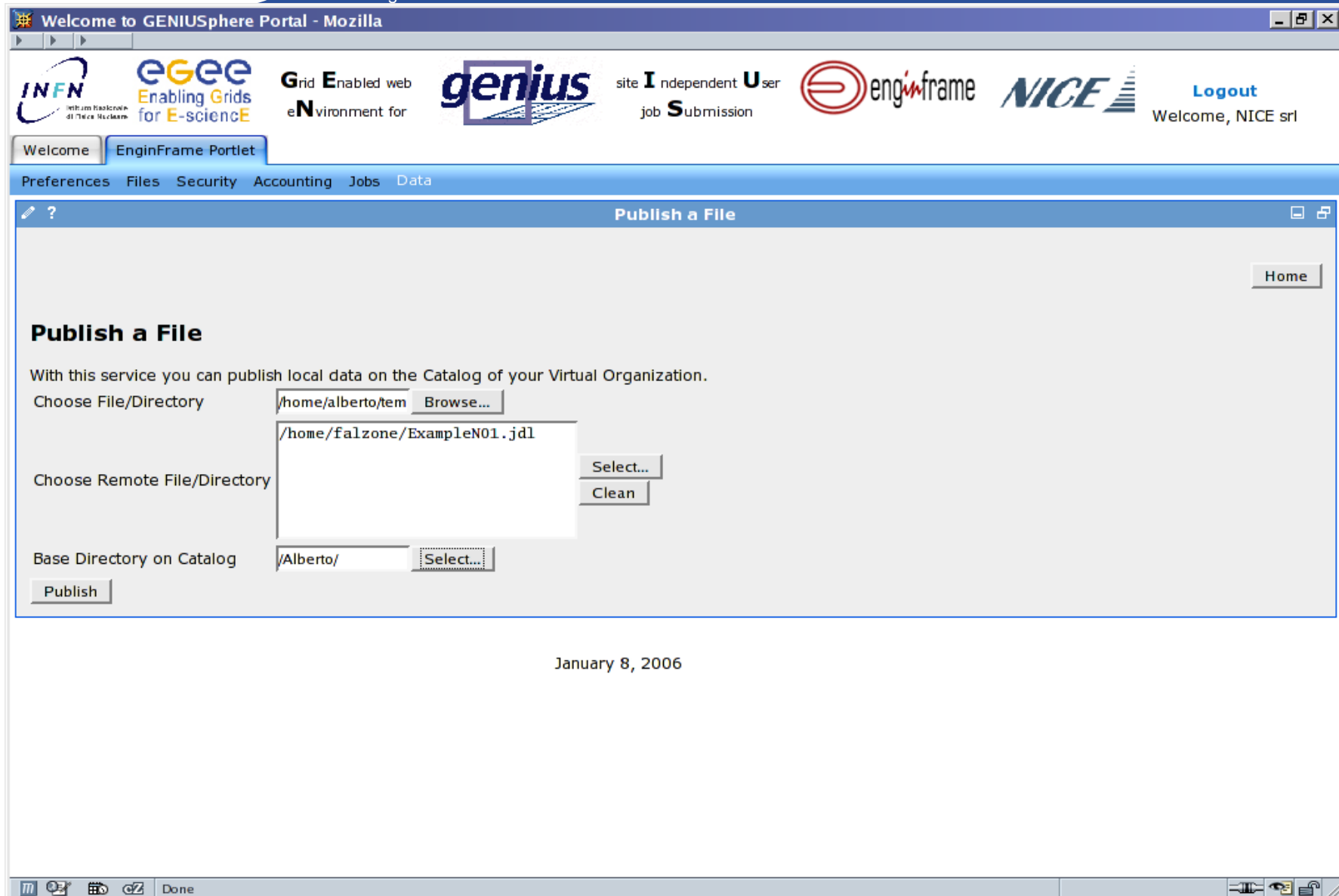
end node only

### Manage Dir on Catalog

With this service you can create or remove a directory on the Catalog of your Virtual Organization.

As mandatory requirement, the directory to remove must be empty.

Select the base dir   The default value is /

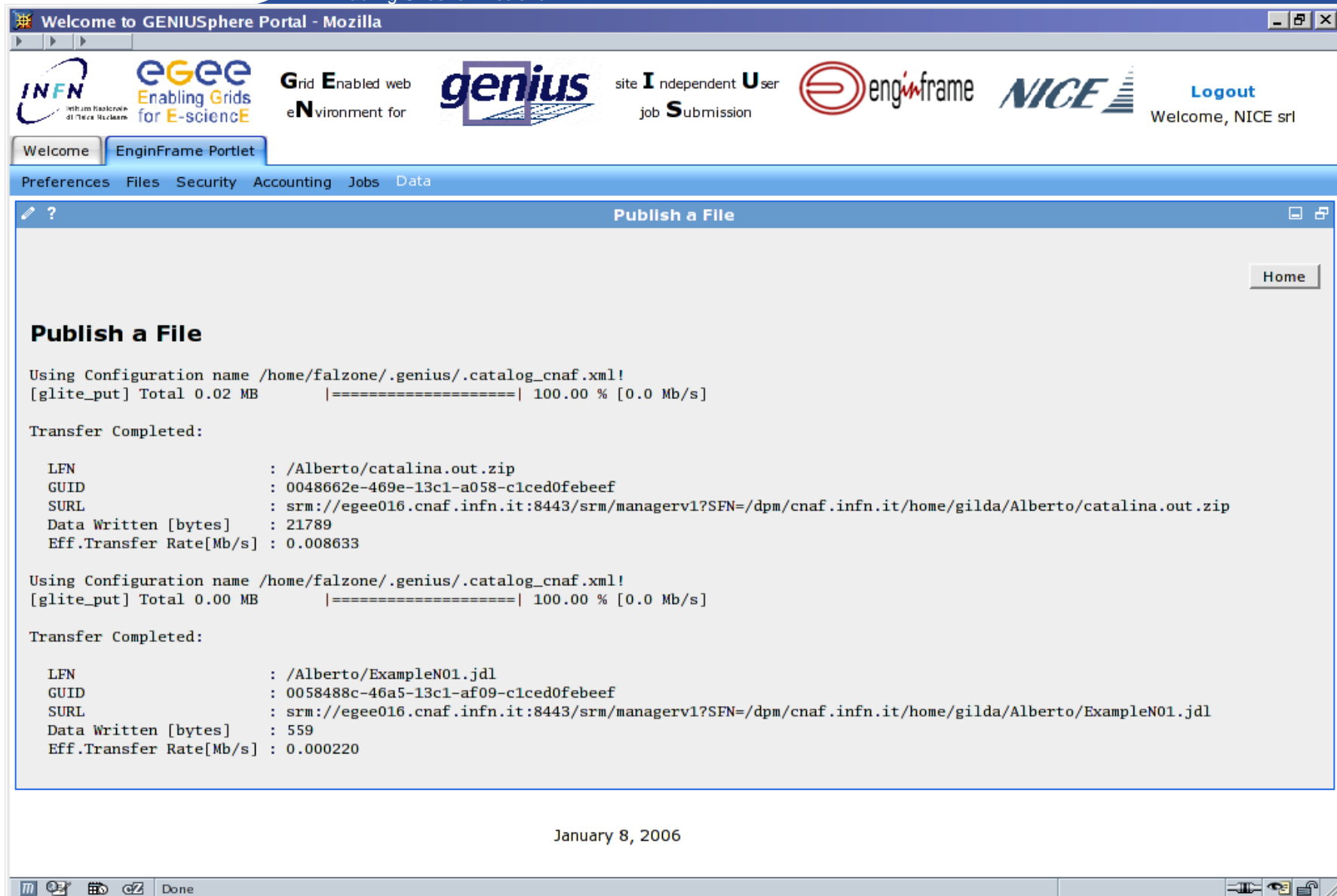


The screenshot shows a Mozilla browser window titled "Welcome to GENIUSphere Portal - Mozilla". The page header includes logos for INFN, eGEE (Enabling Grids for E-science), genius (Grid Enabled web Environment for site Independent User job Submission), EnginFrame, and NICE. A "Logout" link and "Welcome, NICE srl" message are also present. Below the header is a navigation menu with "Welcome" and "EnginFrame Portlet" tabs, and a secondary menu with "Preferences", "Files", "Security", "Accounting", "Jobs", and "Data".






The main content area is titled "Publish a File" and contains the following form elements:

- Publish a File** (Section Header)
- Text: "With this service you can publish local data on the Catalog of your Virtual Organization."
- Form: "Choose File/Directory" with a text input field containing "/home/alberto/tem" and a "Browse..." button.
- Form: "Choose Remote File/Directory" with a text input field containing "/home/falzone/ExampleN01.jdl", a "Select..." button, and a "Clean" button.
- Form: "Base Directory on Catalog" with a text input field containing "/Alberto/" and a "Select..." button.
- Form: A "Publish" button.

A "Home" button is located in the top right corner of the main content area. The date "January 8, 2006" is displayed at the bottom center of the page. The browser's status bar at the bottom shows "Done" and various navigation icons.



Welcome to GENIUSphere Portal - Mozilla

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Preferences Files Security Accounting Jobs Data

Publish a File

Home

### Publish a File

Using Configuration name /home/falzone/.genius/.catalog\_cnaf.xml!  
 [glite\_put] Total 0.02 MB |=====| 100.00 % [0.0 Mb/s]

Transfer Completed:

LFN : /Alberto/catalina.out.zip  
 GUID : 0048662e-469e-13c1-a058-c1ced0febeef  
 SURL : srm://egee016.cnaf.infn.it:8443/srm/managerv1?SFN=/dpm/cnaf.infn.it/home/gilda/Alberto/catalina.out.zip  
 Data Written [bytes] : 21789  
 Eff.Transfer Rate[Mb/s] : 0.008633

Using Configuration name /home/falzone/.genius/.catalog\_cnaf.xml!  
 [glite\_put] Total 0.00 MB |=====| 100.00 % [0.0 Mb/s]

Transfer Completed:

LFN : /Alberto/ExampleN01.jdl  
 GUID : 0058488c-46a5-13c1-af09-c1ced0febeef  
 SURL : srm://egee016.cnaf.infn.it:8443/srm/managerv1?SFN=/dpm/cnaf.infn.it/home/gilda/Alberto/ExampleN01.jdl  
 Data Written [bytes] : 559  
 Eff.Transfer Rate[Mb/s] : 0.000220

January 8, 2006

Done

- **EnginFrame: the Framework for Computing Portals/Gateways**
  - The long history from 3.2 to 4.1 version
  - Industrial adoption overview
- **GENIUS: new features, improvements**
  - The Changes in the backend and the stack on the gLite UI
  - New Features, Improvements
  - Management of User Security
- **GENIUSphere**
  - JSR168 compliance from GENIUS/EnginFrame
  - EnginFrame Portlets in GridSphere
- **Demo Session**
- **Q & A**

- **EnginFrame: the Framework for Computing Portals/Gateways**
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- **Q & A**



# Grid Gateway User Group proposal

Enabling Grids for E-science

- **Open community for GENIUS and EnginFrame plugin developers**
  - Info forum on major happenings in the Grid Gateway arena
  - Blog / newsgroup for technical discussions
- **Repository for portlet / plug-in developers**
  - Industrial plug-ins for EnginFrame
  - Open source plug-ins for GENIUS
  - Other contributed components (e.g. GridSphere portlets, etc.)
- **Volunteers are welcome!**
  - Please contact:
    - [roberto.barbera@ct.infn.it](mailto:roberto.barbera@ct.infn.it)
    - [livia@bio.dist.unige.it](mailto:livia@bio.dist.unige.it)
    - [info@nice-italy.com](mailto:info@nice-italy.com)

**Thanks for your attention!**

Q&A





# A typical job workflow

