



Enabling Grids for E-scienceE

New GENIUS and GILDA services for gLite

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INFN Catania

*Retreat between GILDA and ESR VO on gLite
Bratislava, 27-30.06.2005*

www.eu-egee.org



- **Introduction**
- **Architecture and Implementation:**
 - **The GENIUS hourglass model**
 - **Genius : How it works**
 - **Genius Services**
 - **Genius Installation**
 - **FAQs**



- Grid computing vision brings the idea that enormous and heterogeneous computing resources, distributed world-wide and “linked” by large bandwidth networks, can be connected by an intelligent series of services (**the Grid middleware**) and behave as a single machine.
- Within this paradigm, an easy way to access and share computing resources is to provide large communities (**VO**) where scientists and researchers could work together to solve complex problems.
- Grids must provide a **secure** access to distributed resources which must be presented in terms of applications and not of complex protocols.

- Actually the services provided by the grid-middleware are currently exposed through **Command Line Interfaces (CLI)**
- As solution to overcome this problem the Italian **INFN** Grid Project and the Italian web technology company **NICE S.r.l.** start a collaboration (beginning of 2002) which bring to the develop of the **GENIUS Grid Portal**
- Thanks to **GENIUS** scientists and researchers can execute and monitor their applications on the Grid just using a simple web browser.

- It can be accessed from everywhere and by “everything” (desktop, laptop, PDA, cell phone).
- It can keep the same 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.

- **All available grid services must be incorporated in a logic way, just “one mouse click away”.**
- **Layout used is very easy to understand and user friendly.**

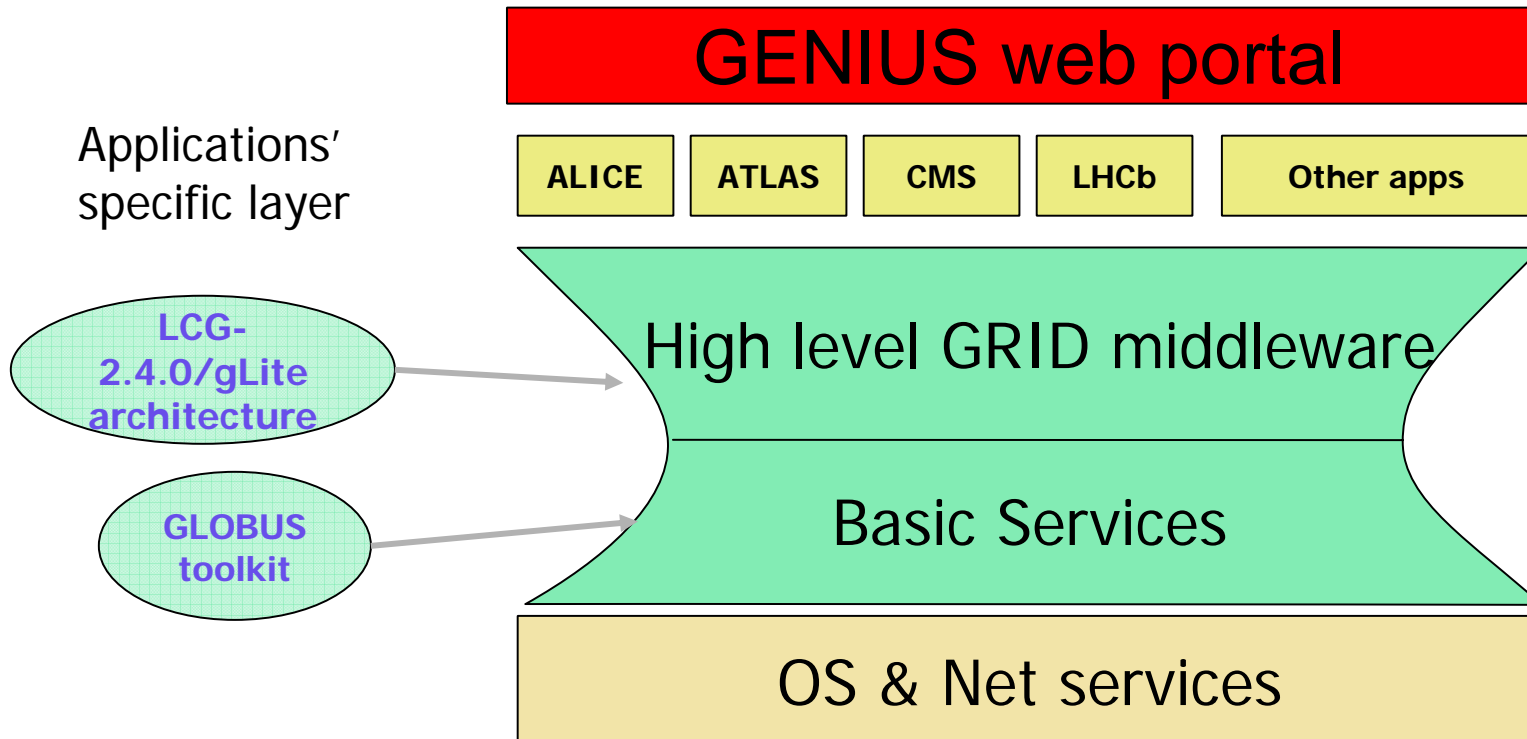


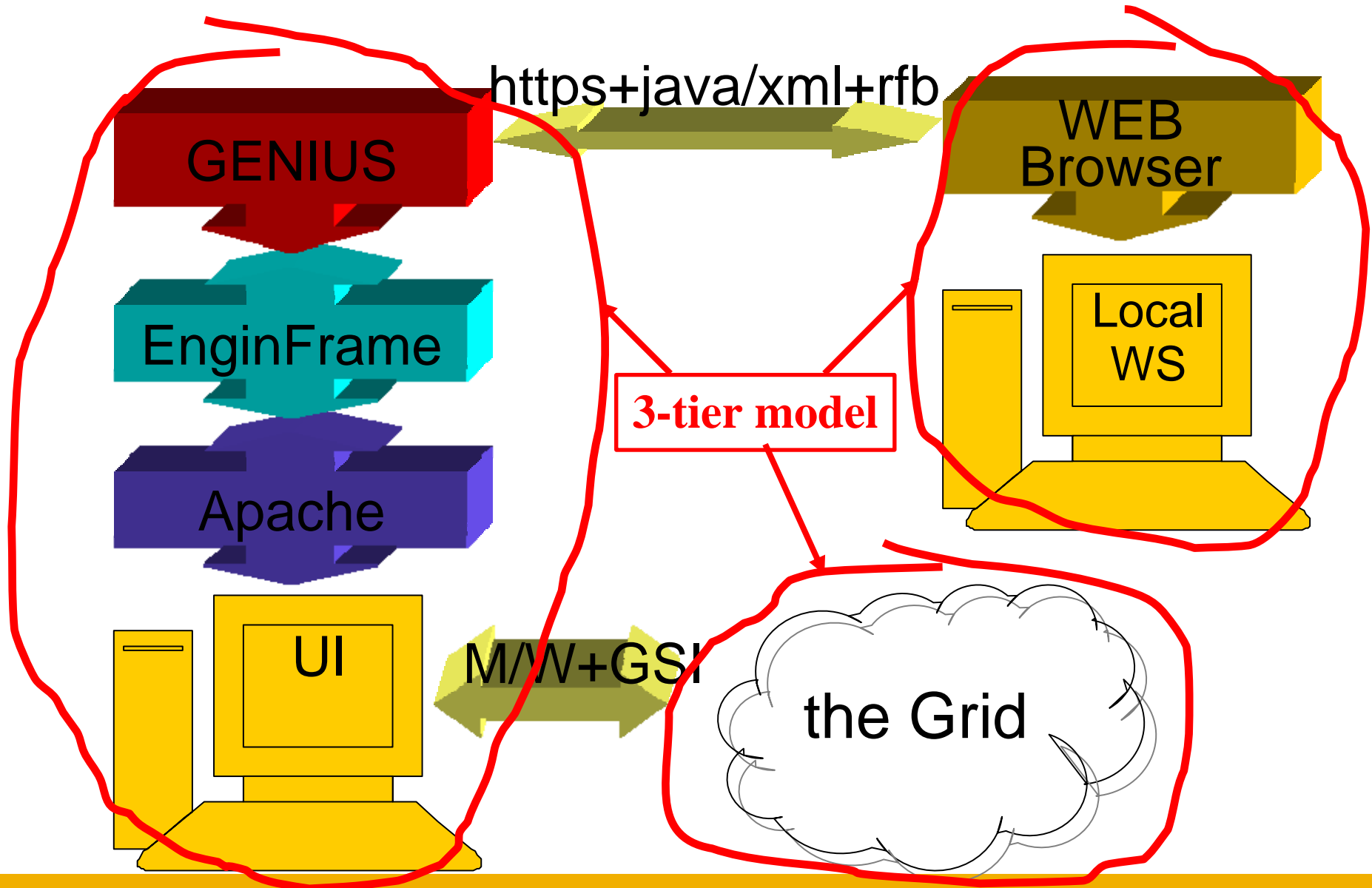
GENIUS[®]

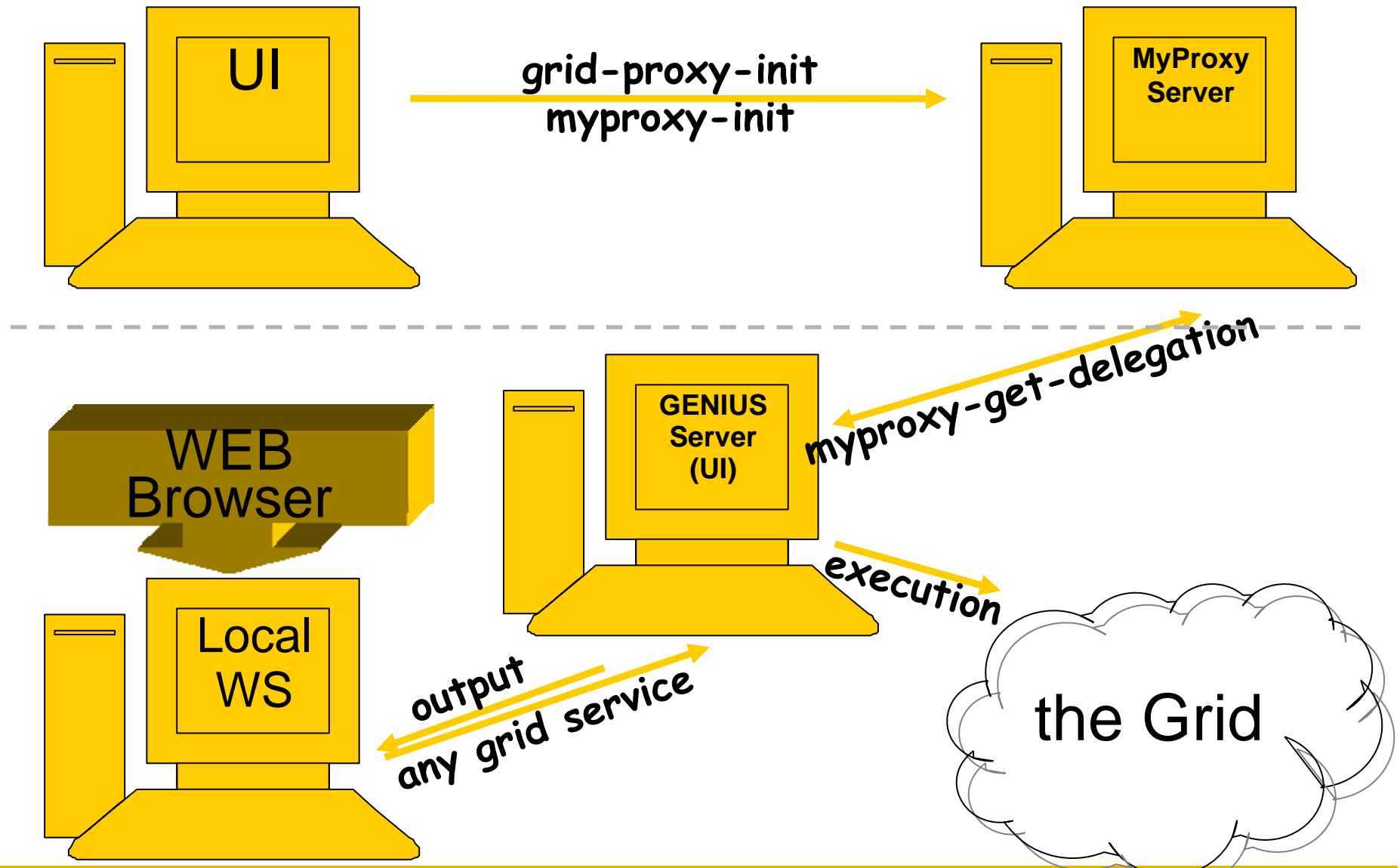
(Grid Enabled web eNvironment for site Independent User job Submission)


[<https://genius.ct.infn.it>]

INFN/NICE collaboration









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Welcome to GENIUS based on

gLite

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[GENIUS User's Guide \(pdf\)](#)
[New Grid Authentication with MyProxy](#)
[GENIUS MyProxy Server Installation](#)
[GENIUS CVS Available](#)
[GENIUS Mailing List](#)
[GENIUS Mailing Archive \(Help on Majordomo Commands\)](#)
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Grid Enabled web eNvironment for site Independent User job Submission

RB: cnaf_gridit VO: alice RLS: GRIDIT 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.

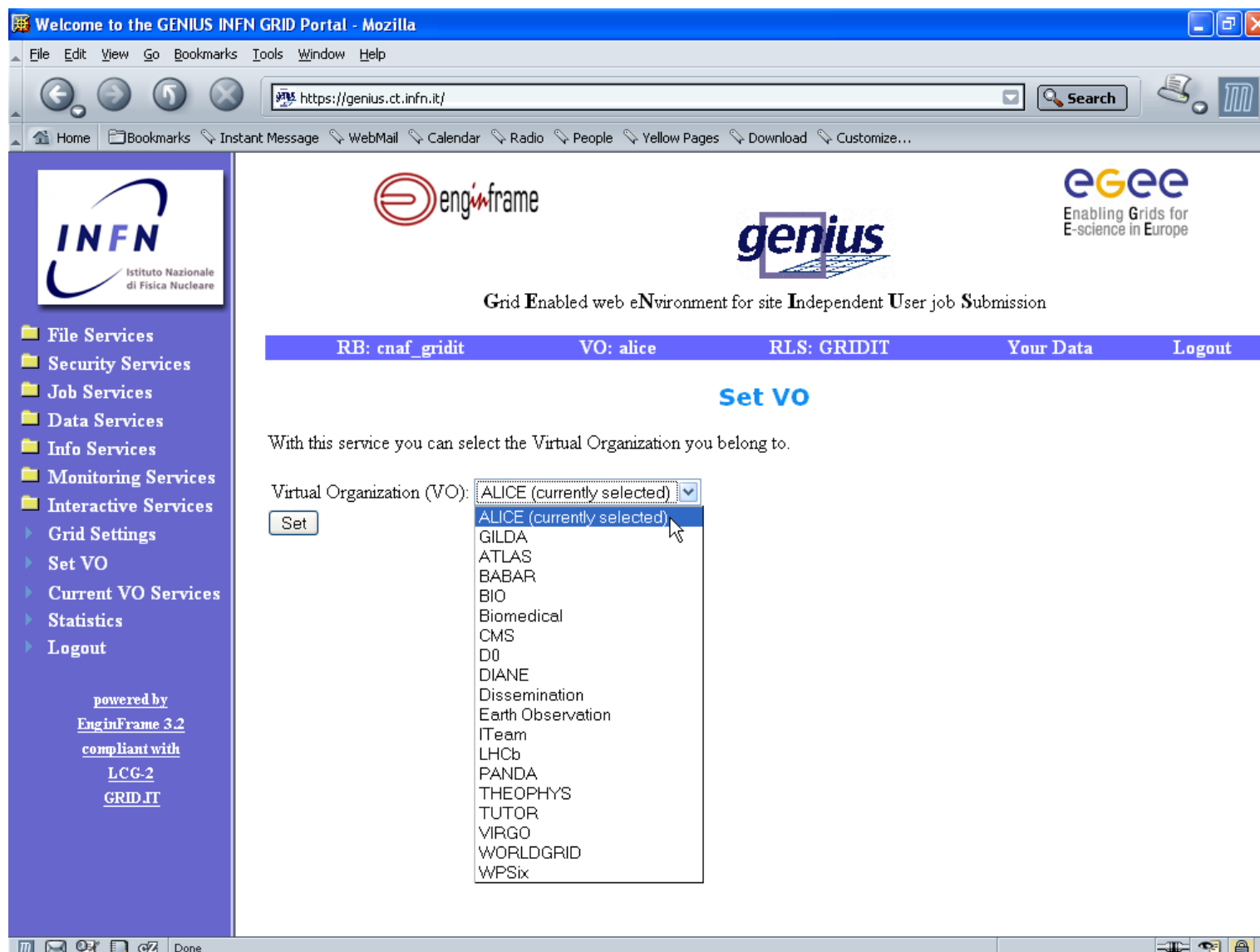
Resource Broker (RB): CNAF GRIDIT (currently selected) ▾

Replica Location Server (RLS): GRIDIT (currently selected) ▾

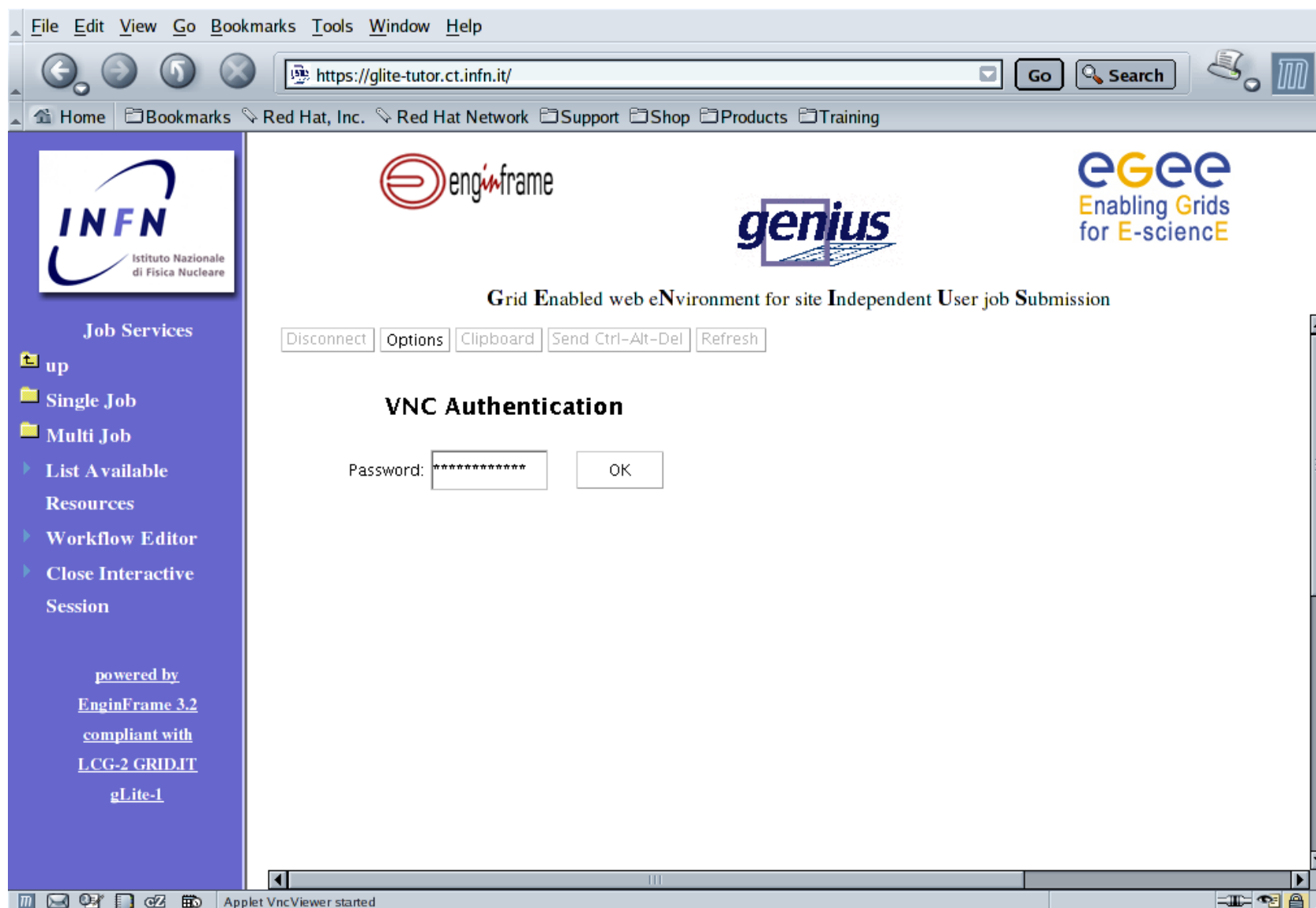
MyProxy Server: grid001.ct.infn.it (currently selected) ▾

Update

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The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla" with the address bar set to "https://genius.ct.infn.it/". The page features logos for "enginframe", "genius", and "eGEE". A navigation bar displays "RB: cnaf_gridit", "VO: alice", "RLS: GRIDIT", "Your Data", and "Logout". The main content area is titled "Set VO" and includes the text: "With this service you can select the Virtual Organization you belong to." Below this is a dropdown menu for "Virtual Organization (VO)" with "ALICE (currently selected)" chosen. A "Set" button is positioned to the left of the dropdown. The dropdown list contains the following options: ALICE (currently selected), GILDA, ATLAS, BABAR, BIO, Biomedical, CMS, D0, DIANE, Dissemination, Earth Observation, ITeam, LHCb, PANDA, THEOPHYS, TUTOR, VIRGO, WORLDGRID, and WPSix. A sidebar on the left lists various services such as File Services, Security Services, Job Services, Data Services, Info Services, Monitoring Services, and Interactive Services. At the bottom of the sidebar, it states "powered by EnginFrame 3.2 compliant with LCG-2 GRID.IT".



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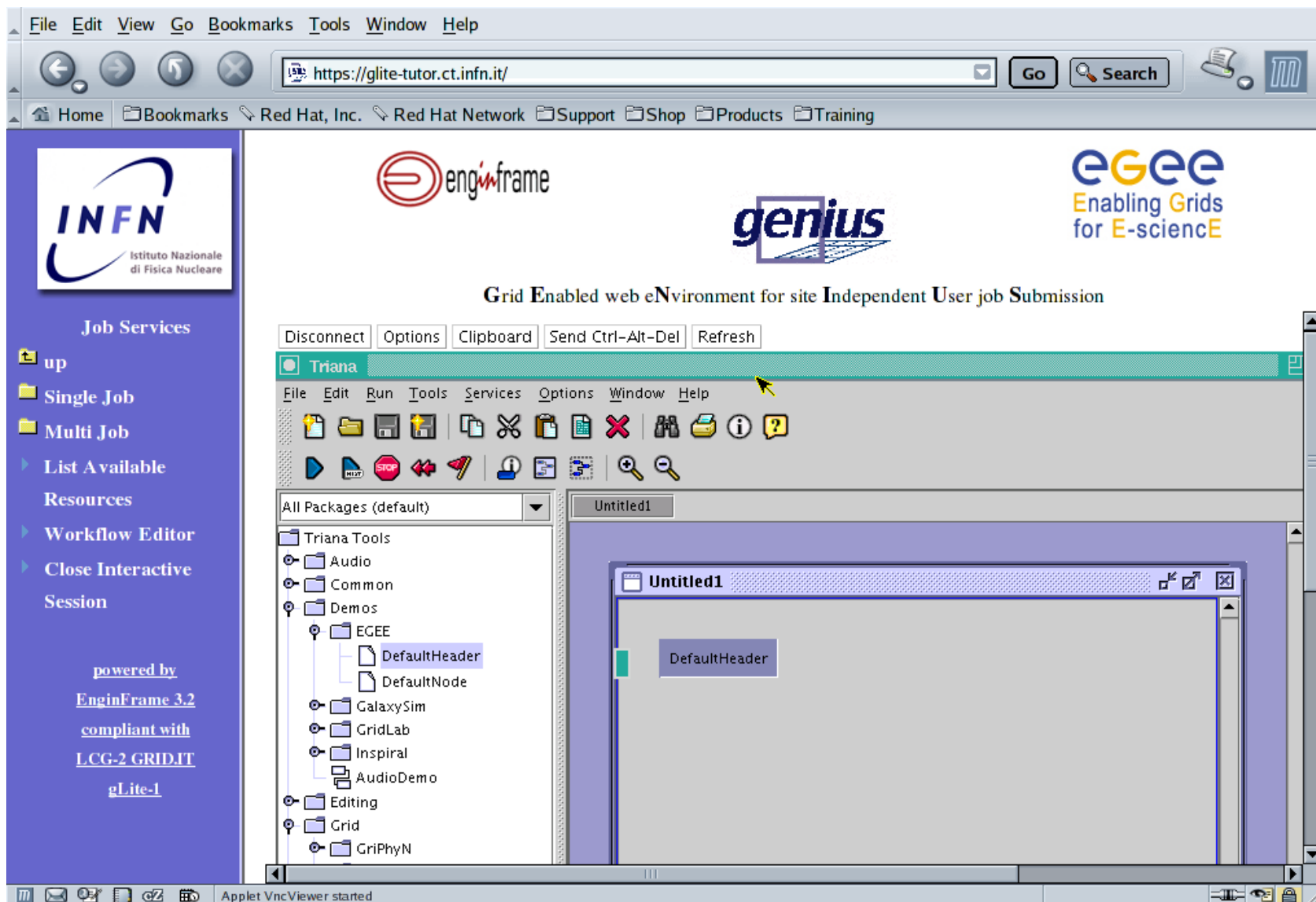
Disconnect Options Clipboard Send Ctrl-Alt-Del Refresh

VNC Authentication

Password: OK

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Applet VncViewer started



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Disconnect Options Clipboard Send Ctrl-Alt-Del Refresh

Triana

File Edit Run Tools Services Options Window Help

All Packages (default)

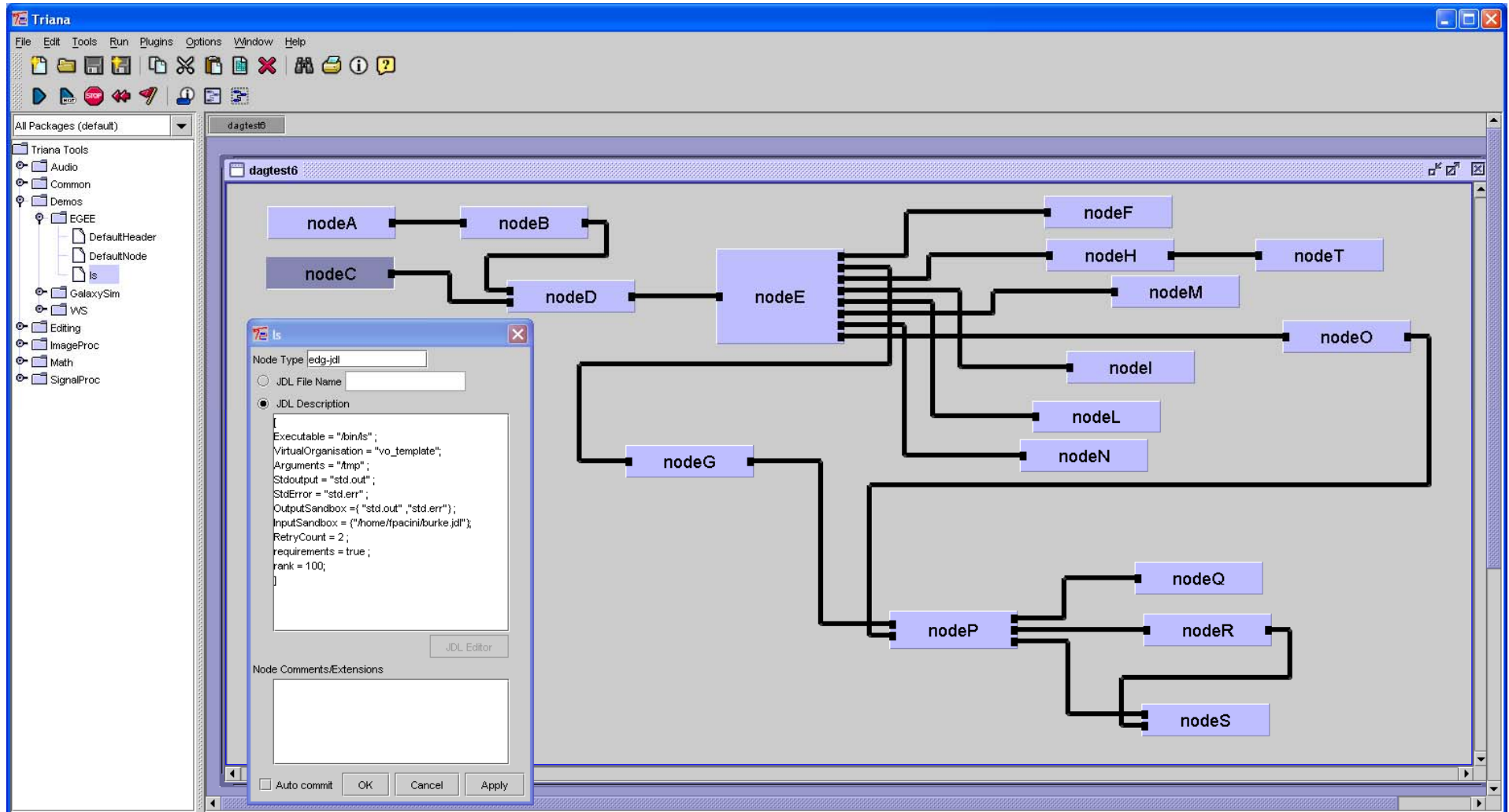
- Triana Tools
 - Audio
 - Common
 - Demos
 - EGEE
 - DefaultHeader
 - DefaultNode
 - GalaxySim
 - GridLab
 - Inspiral
 - AudioDemo
 - Editing
 - Grid
 - CriPhyN

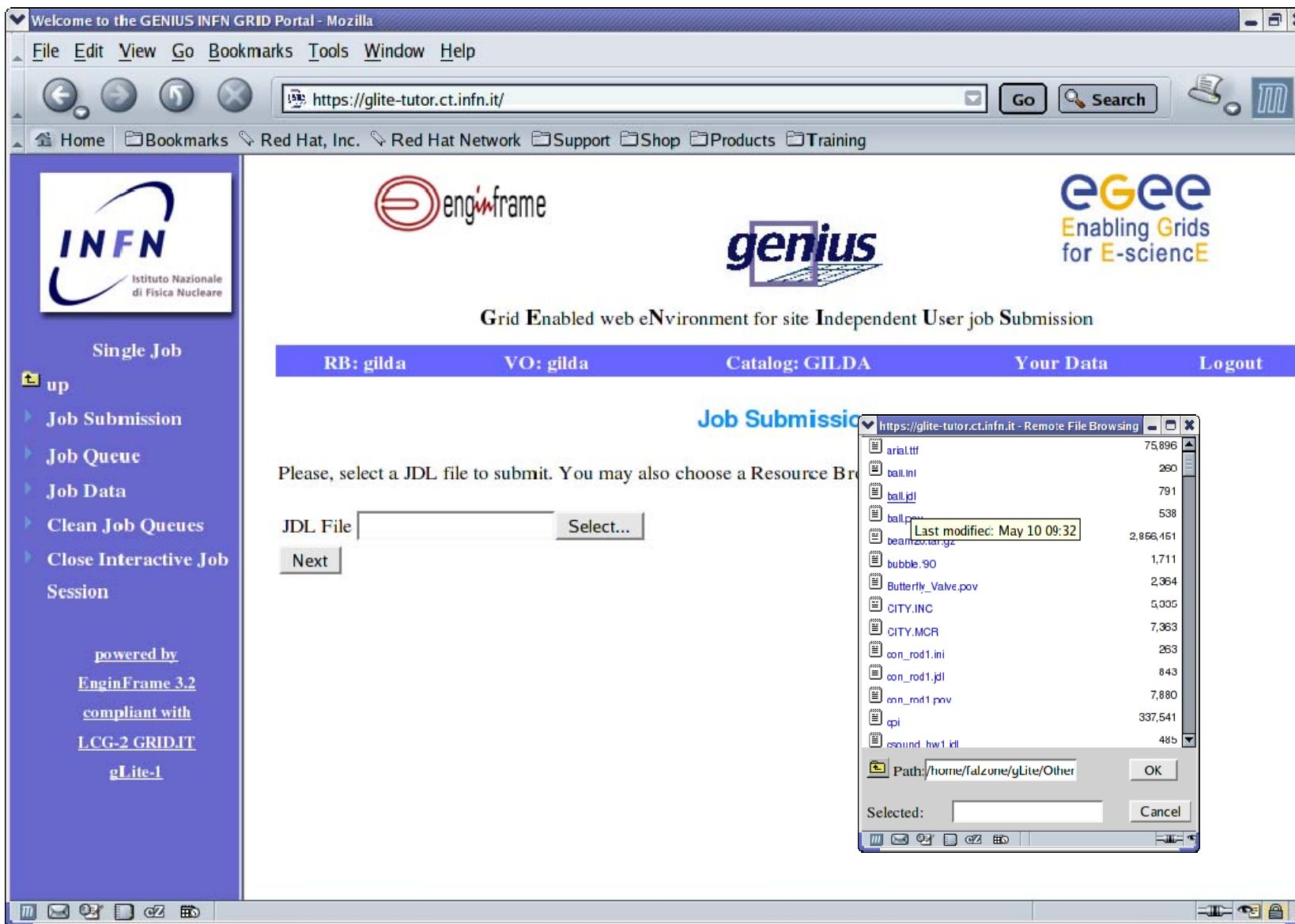
Untitled1

Untitled1

DefaultHeader

Applet VncViewer started





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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Job Submission

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

JDL File

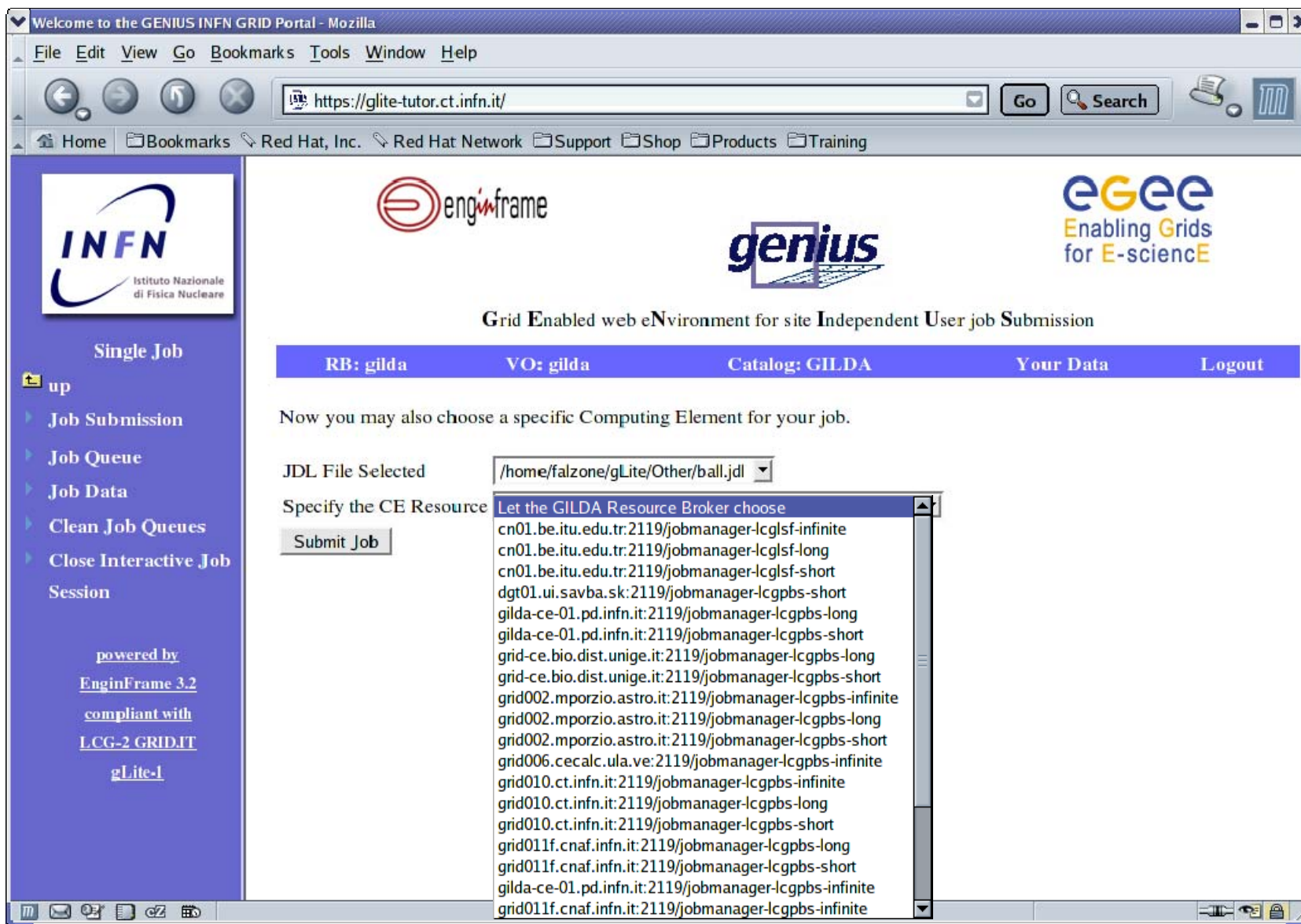
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Remote File Browsing

arial.ttf	75,896
ball.ini	260
ball.jdl	791
ball.pov	538
ball.pov.gz	2,866,451
bubble_90	1,711
Butterfly_Valve.pov	2,364
CITY.INC	5,035
CITY.MCR	7,363
con_rod1.ini	263
con_rod1.jdl	843
con_rod1.pov	7,880
cpu	337,541
csound_hw1.kit	485

Path: /home/falzone/gLite/Other

Selected:

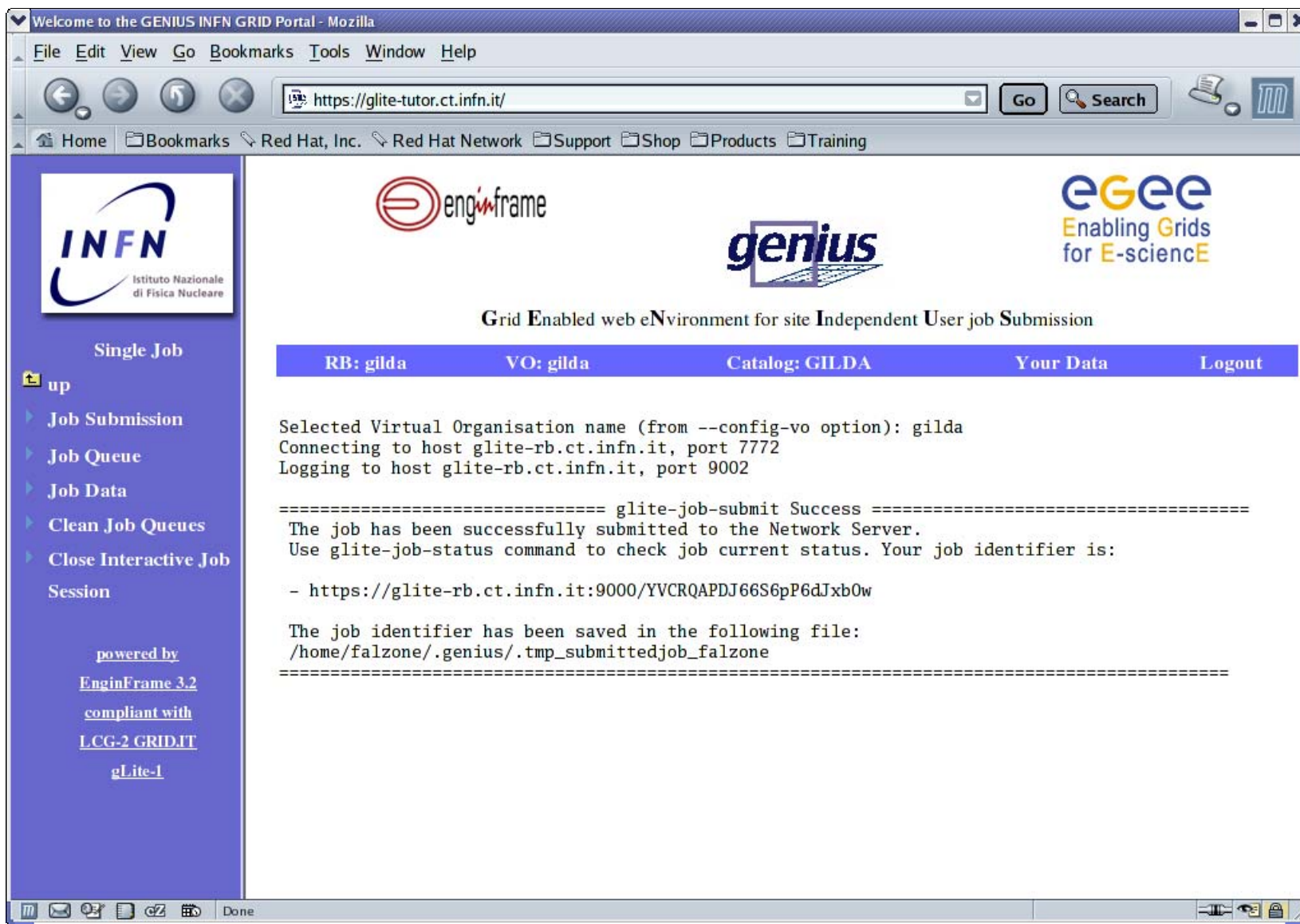


The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla". The address bar contains "https://glite-tutor.ct.infn.it/". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The browser's toolbar shows navigation buttons, a search box, and a printer icon. The browser's bookmark bar contains Home, Bookmarks, Red Hat, Inc., Red Hat Network, Support, Shop, Products, and Training.

The main content area features the logos for INFN (Istituto Nazionale di Fisica Nucleare), EnginFrame, genius, and eGEE (Enabling Grids for E-science). Below the logos, the text reads "Grid Enabled web eNvironment for site Independent User job Submission". A navigation bar contains links for "RB: gilda", "VO: gilda", "Catalog: GILDA", "Your Data", and "Logout".

The main content area displays the text "Now you may also choose a specific Computing Element for your job." Below this, there is a form with a "JDL File Selected" field containing "/home/falzone/gLite/Other/ball.jdl". A "Specify the CE Resource" field is open, showing a list of computing elements. The list includes resources such as "cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite", "gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-long", and "grid002.mporzio.astro.it:2119/jobmanager-lcgpbs-infinite". A "Submit Job" button is located below the list.

The left sidebar contains a "Single Job" section with a "up" button and a list of links: "Job Submission", "Job Queue", "Job Data", "Clean Job Queues", and "Close Interactive Job Session". At the bottom of the sidebar, it states "powered by EnginFrame 3.2 compliant with LCG-2 GRIDIT gLite-1".



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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

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

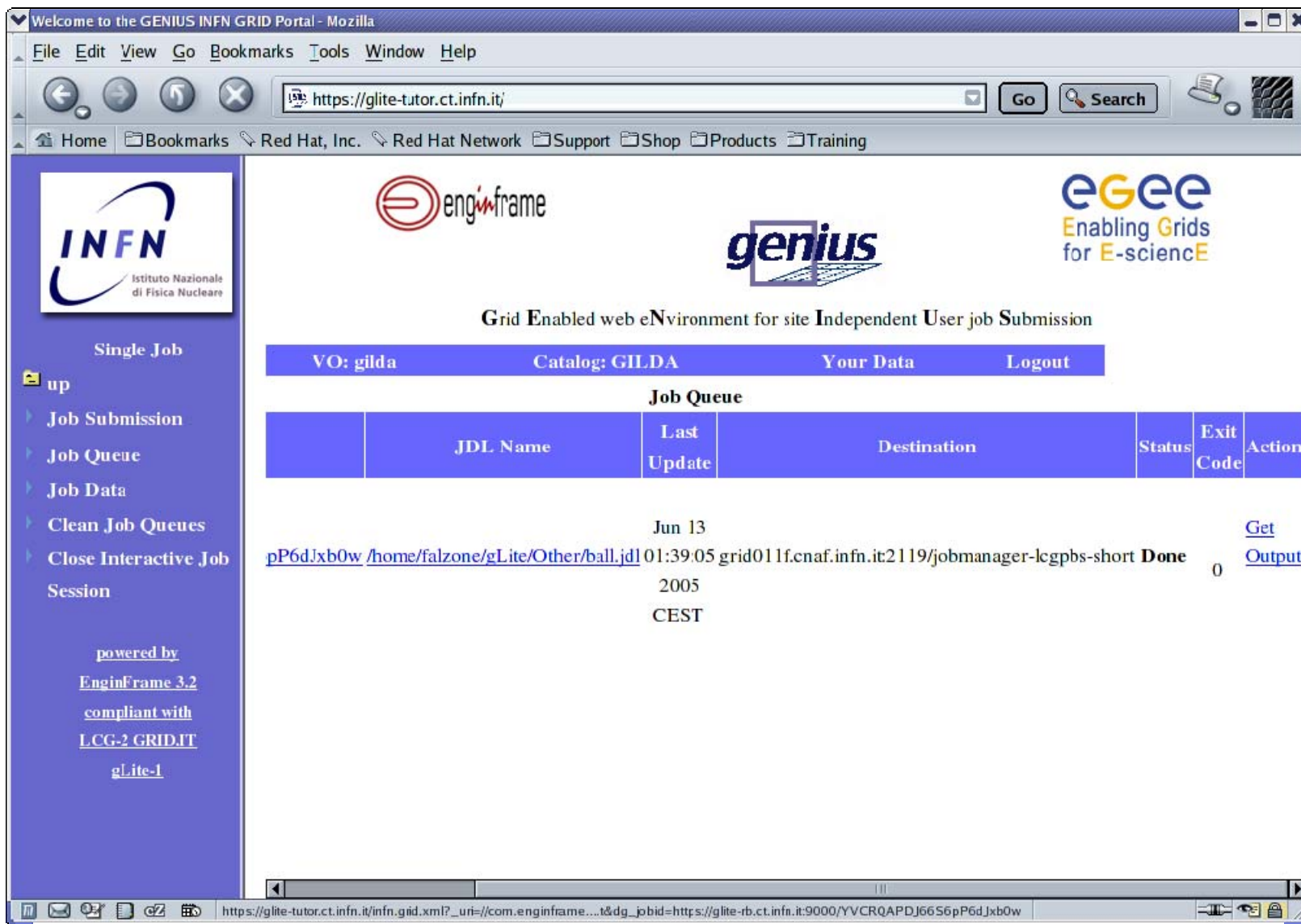
===== glite-job-submit Success =====
The job has been successfully submitted to the Network Server.
Use glite-job-status command to check job current status. Your job identifier is:

- https://glite-rb.ct.infn.it:9000/YVCRQAPDJ66S6pP6dJxb0w

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

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Done







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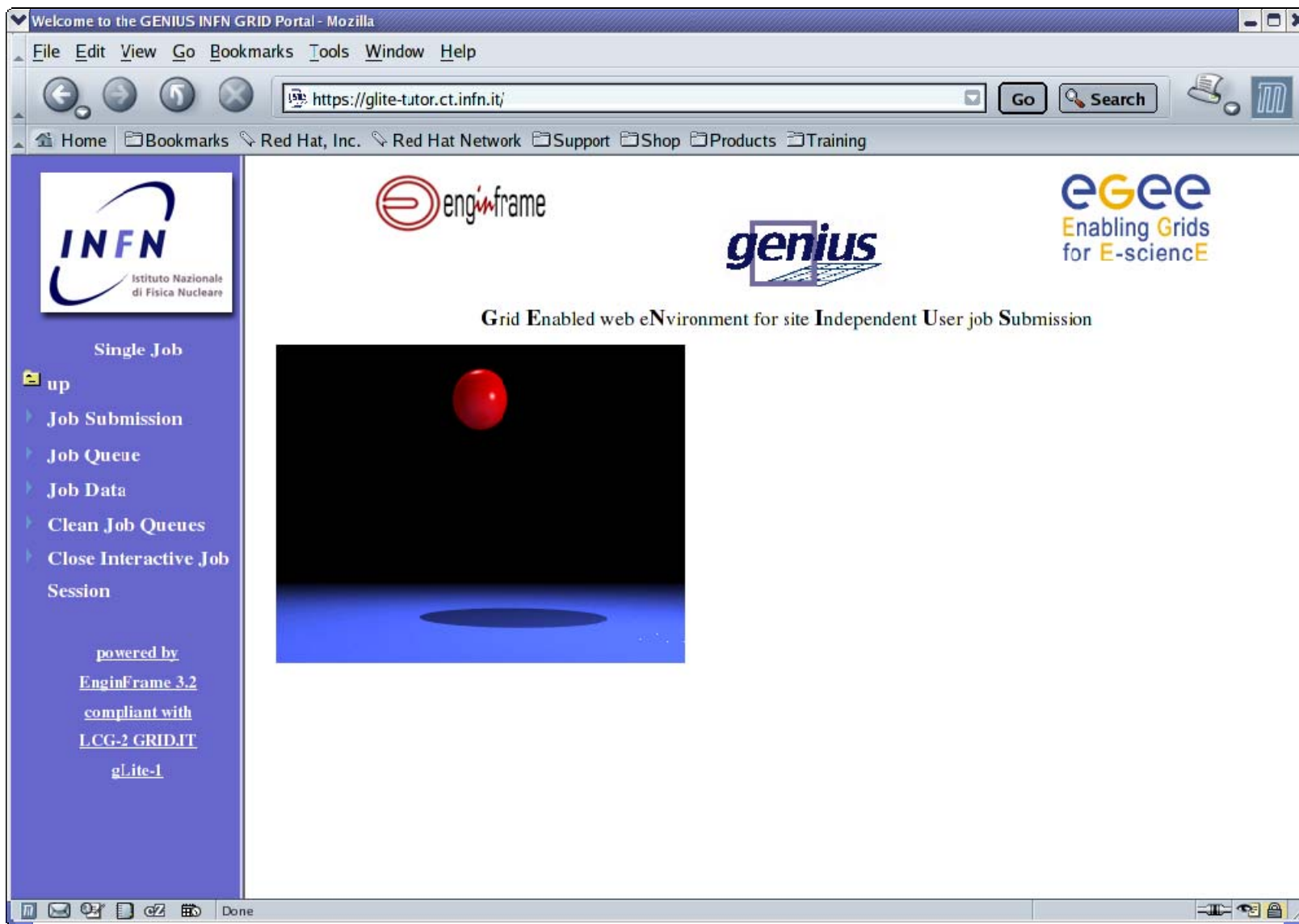
VO: gilda Catalog: GILDA Your Data Logout

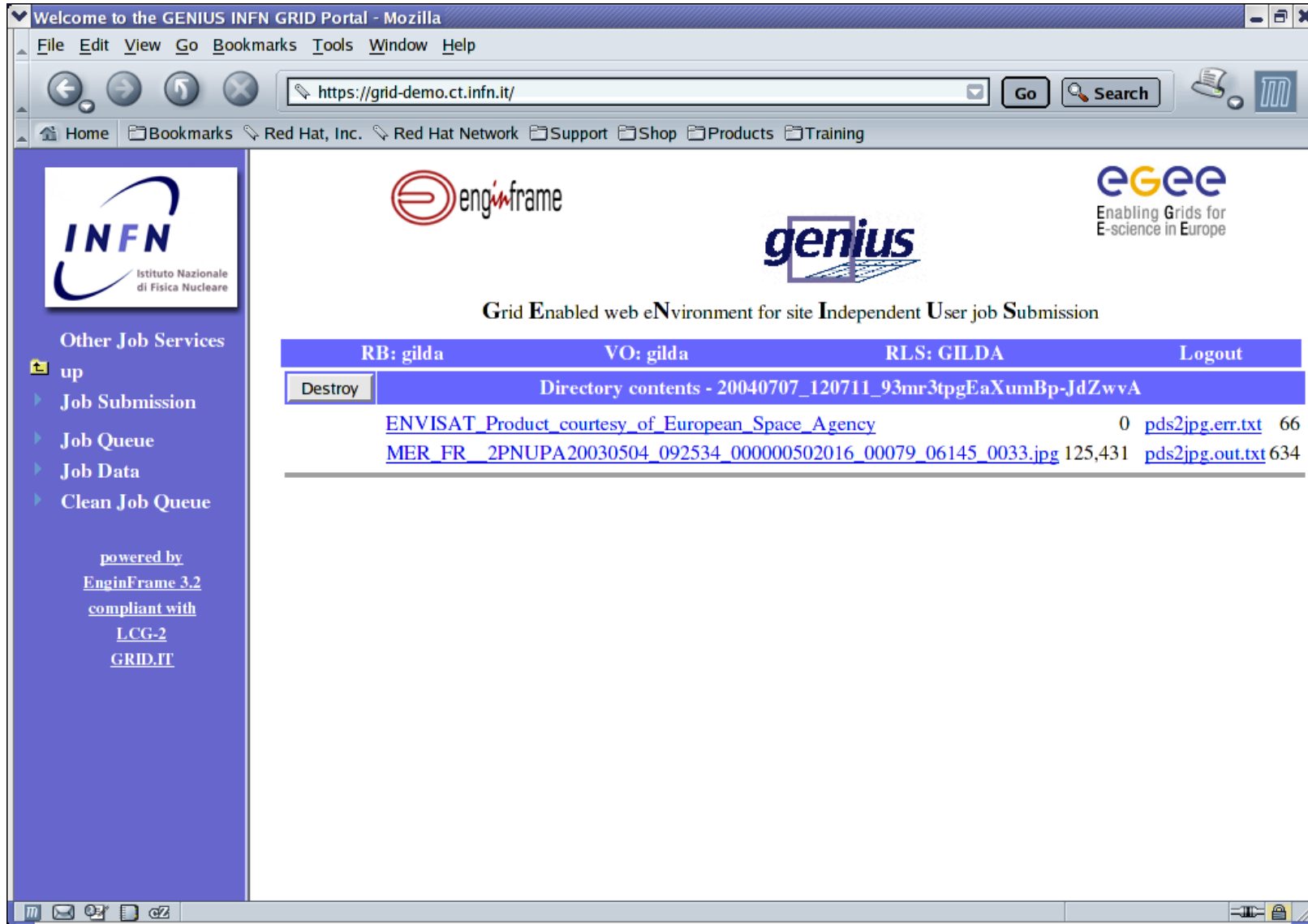
Job Queue

JDL Name	Last Update	Destination	Status	Exit Code	Action
pP6dJxb0w /home/falzone/gLite/Other/ball.jdl	Jun 13 01:39:05 2005 CEST	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	Done	0	Get Output

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https://glite-tutor.ct.infn.it/inf/gid.xml?_uri=/com.enginframe...&dg_jobid=https://glite-rb.ct.infn.it:9000/YVCRQAPDJ66S6pP6dJxb0w





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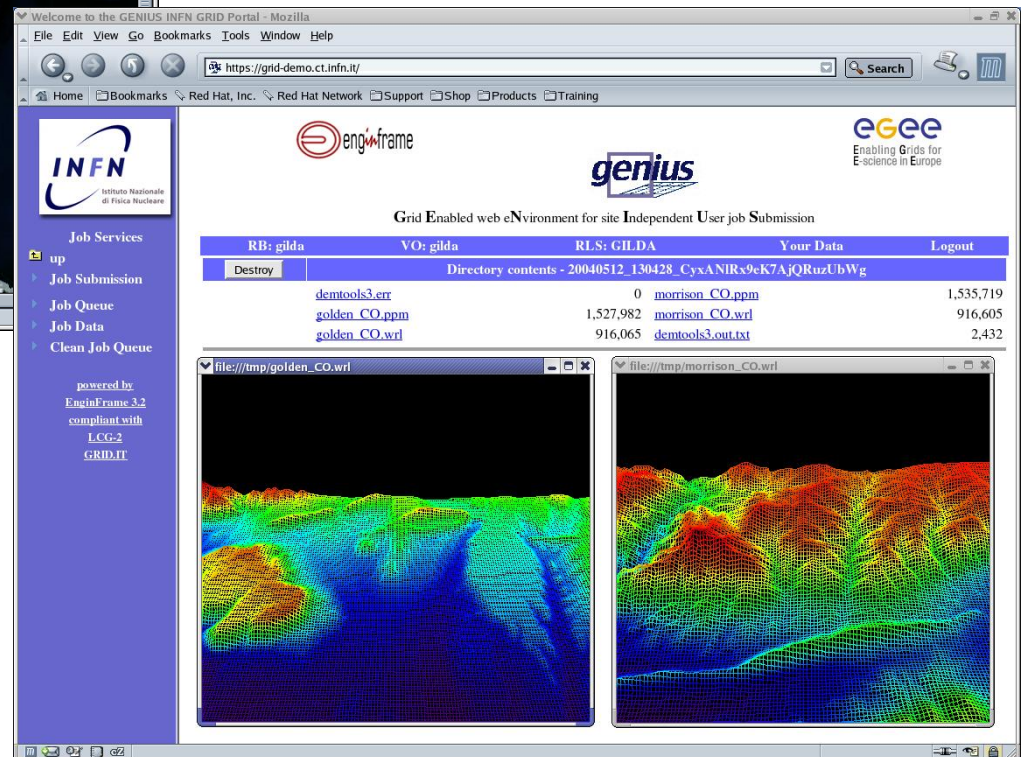
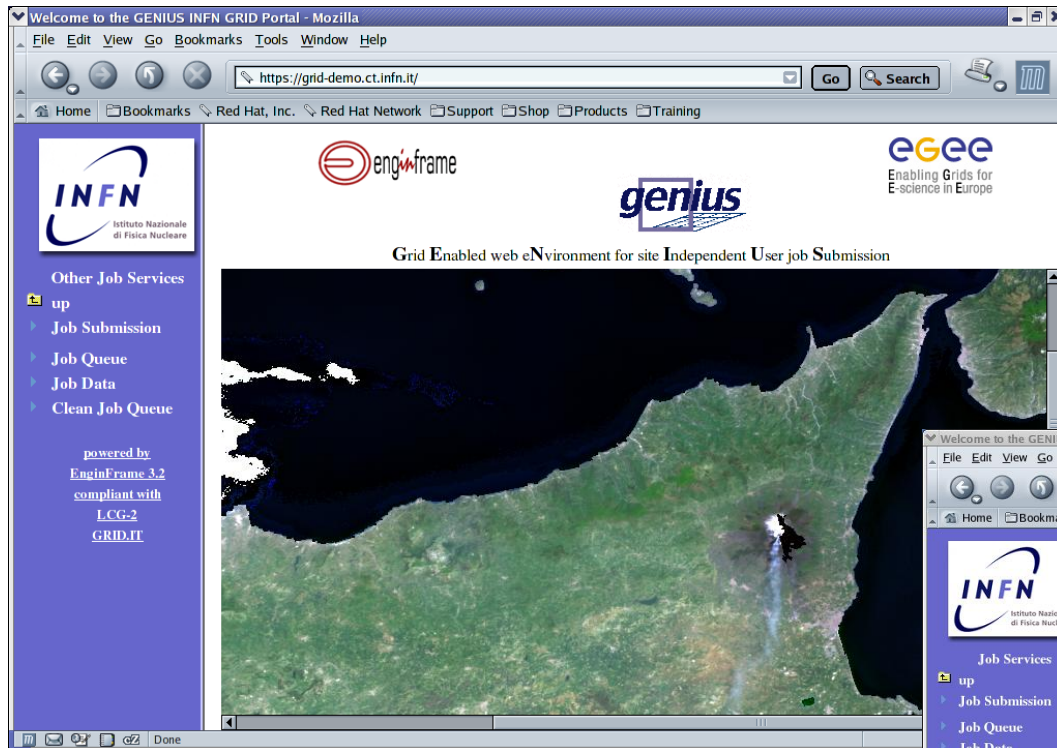
Grid Enabled web eNvironment for site Independent User job Submission

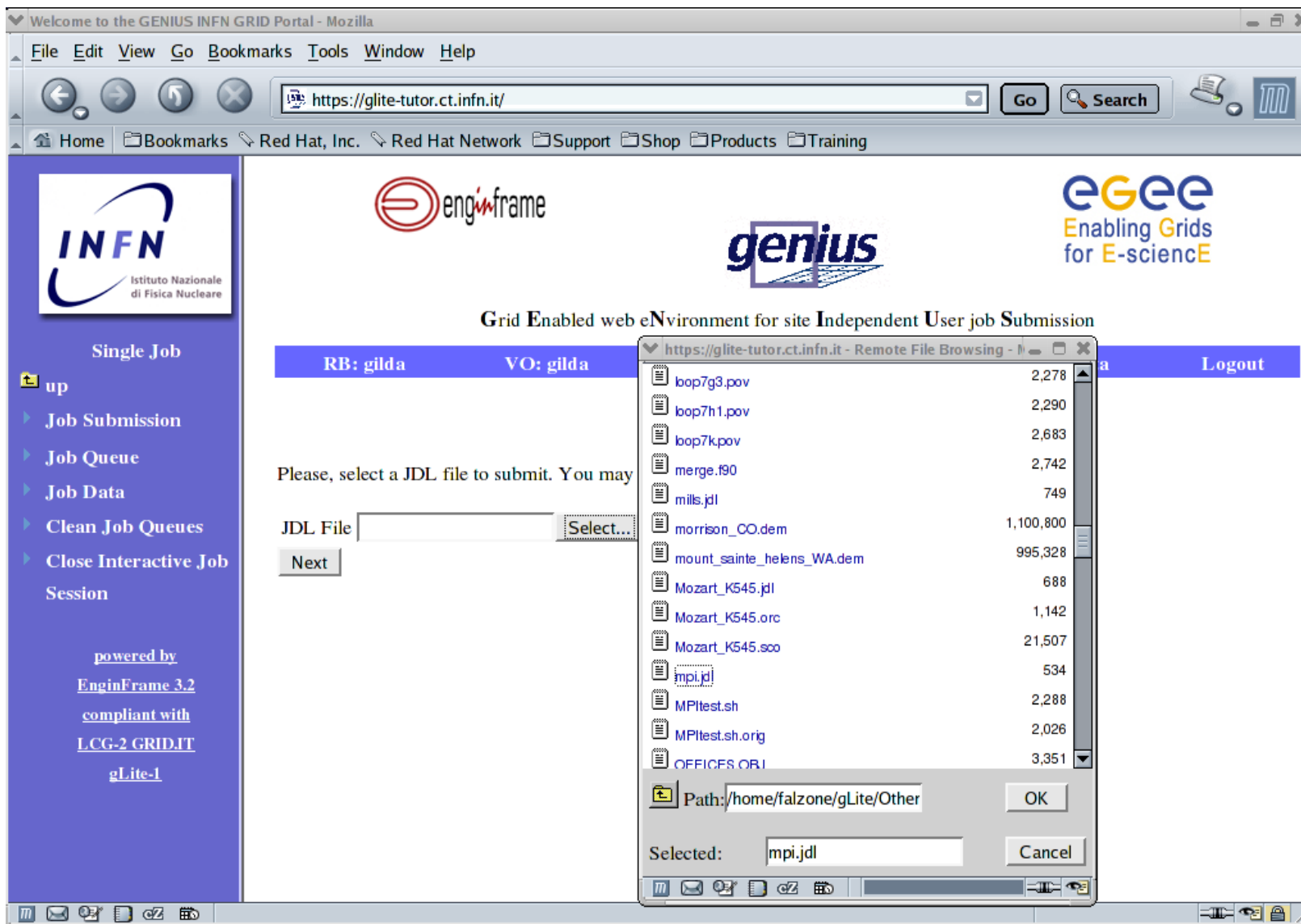
RB: gilda	VO: gilda	RLS: GILDA	Logout
<input type="button" value="Destroy"/>	Directory contents - 20040707_120711_93mr3tpgEaXumBp-JdZwvA		
ENVISAT_Product_courtesy_of_European_Space_Agency	0	pds2jpg.err.txt	66
MER_FR_2PNUPA20030504_092534_000000502016_00079_06145_0033.jpg	125,431	pds2jpg.out.txt	634

Other Job Services

- up
- Job Submission
- Job Queue
- Job Data
- Clean Job Queue

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RB: gilda VO: gilda

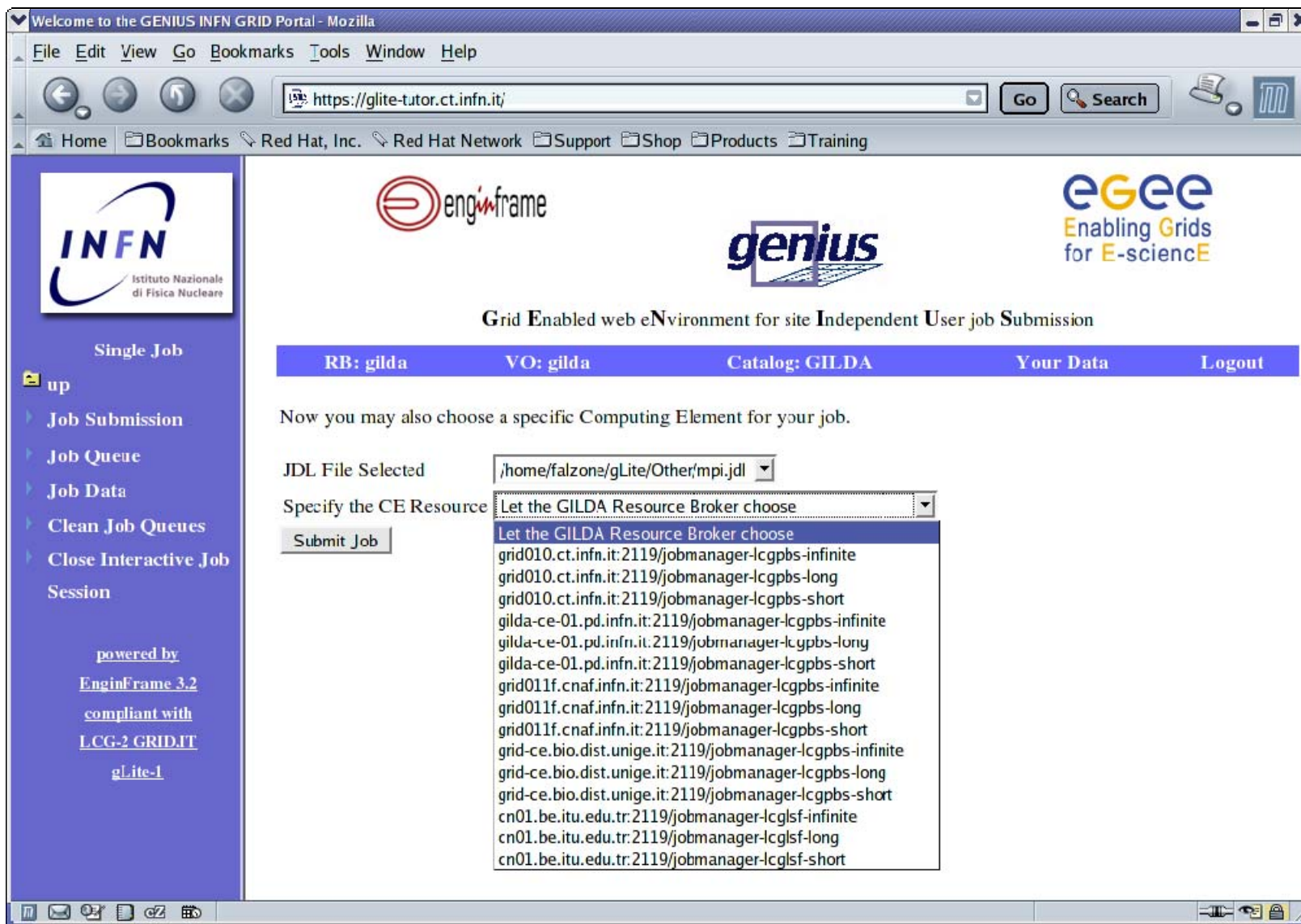
Please, select a JDL file to submit. You may

JDL File

File Name	Size
loop7g3.pov	2,278
loop7h1.pov	2,290
loop7k.pov	2,683
merge.f90	2,742
mills.jdl	749
morrison_CO.dem	1,100,800
mount_sainte_helens_WA.dem	995,328
Mozart_K545.jdl	688
Mozart_K545.orc	1,142
Mozart_K545.sco	21,507
mpi.jdl	534
MPItest.sh	2,288
MPItest.sh.orig	2,026
OFFICES.ORI	3,351

Path: /home/falzone/gLite/Other

Selected: mpi.jdl



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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

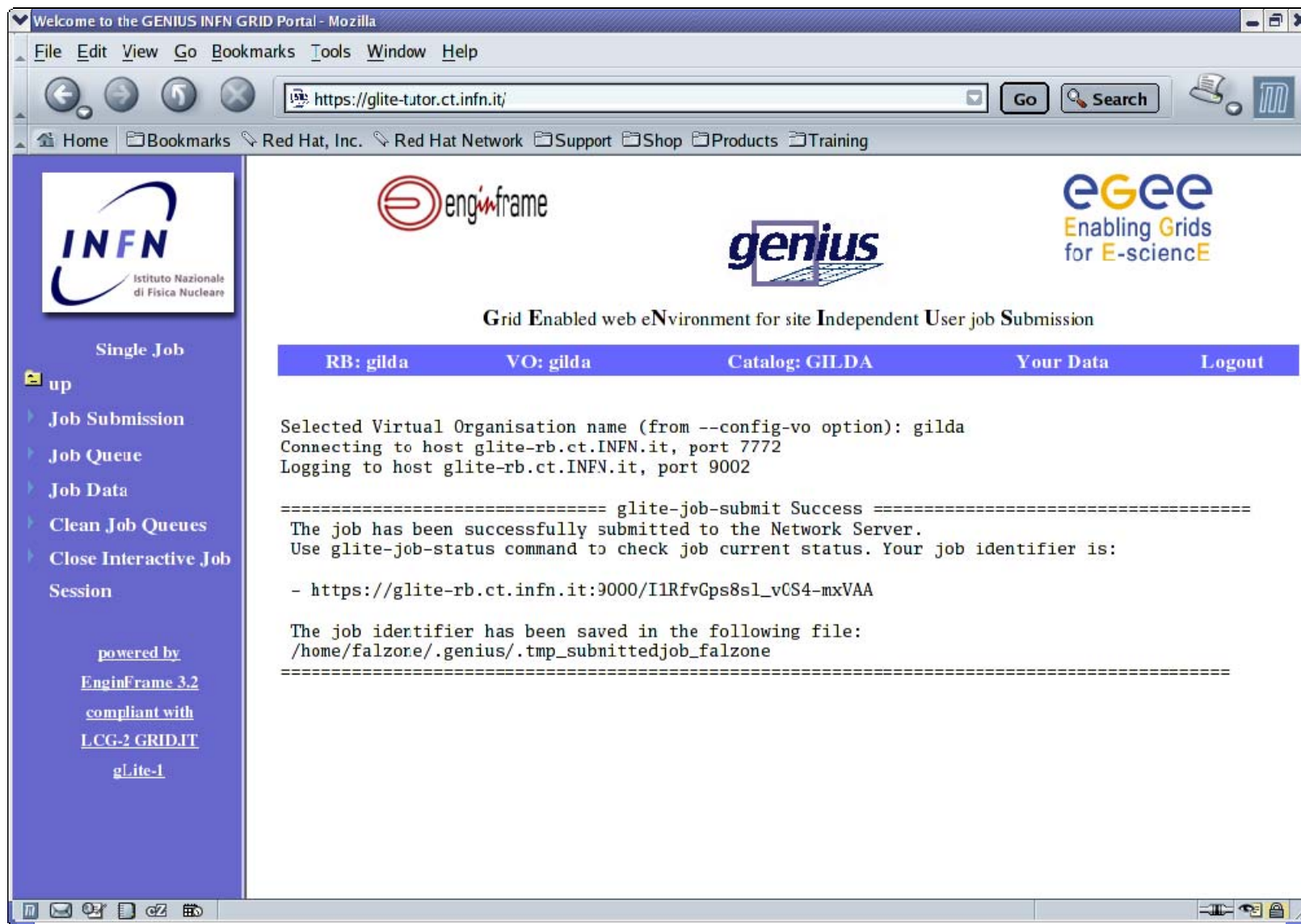
Now you may also choose a specific Computing Element for your job.

JDL File Selected

Specify the CE Resource

- Let the GILDA Resource Broker choose
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-long
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-short
- gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite
- gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-long
- gilda-ce-01.pd.infn.it: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
- grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-infinite
- grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-long
- grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-short
- cn01.be.itu.edu.tr:2119/jobmanager-lcglfs-infinite
- cn01.be.itu.edu.tr:2119/jobmanager-lcglfs-long
- cn01.be.itu.edu.tr:2119/jobmanager-lcglfs-short

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Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Selected Virtual Organisation name (from --config-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/I1RfvGps8s1_vCS4-mxVAA

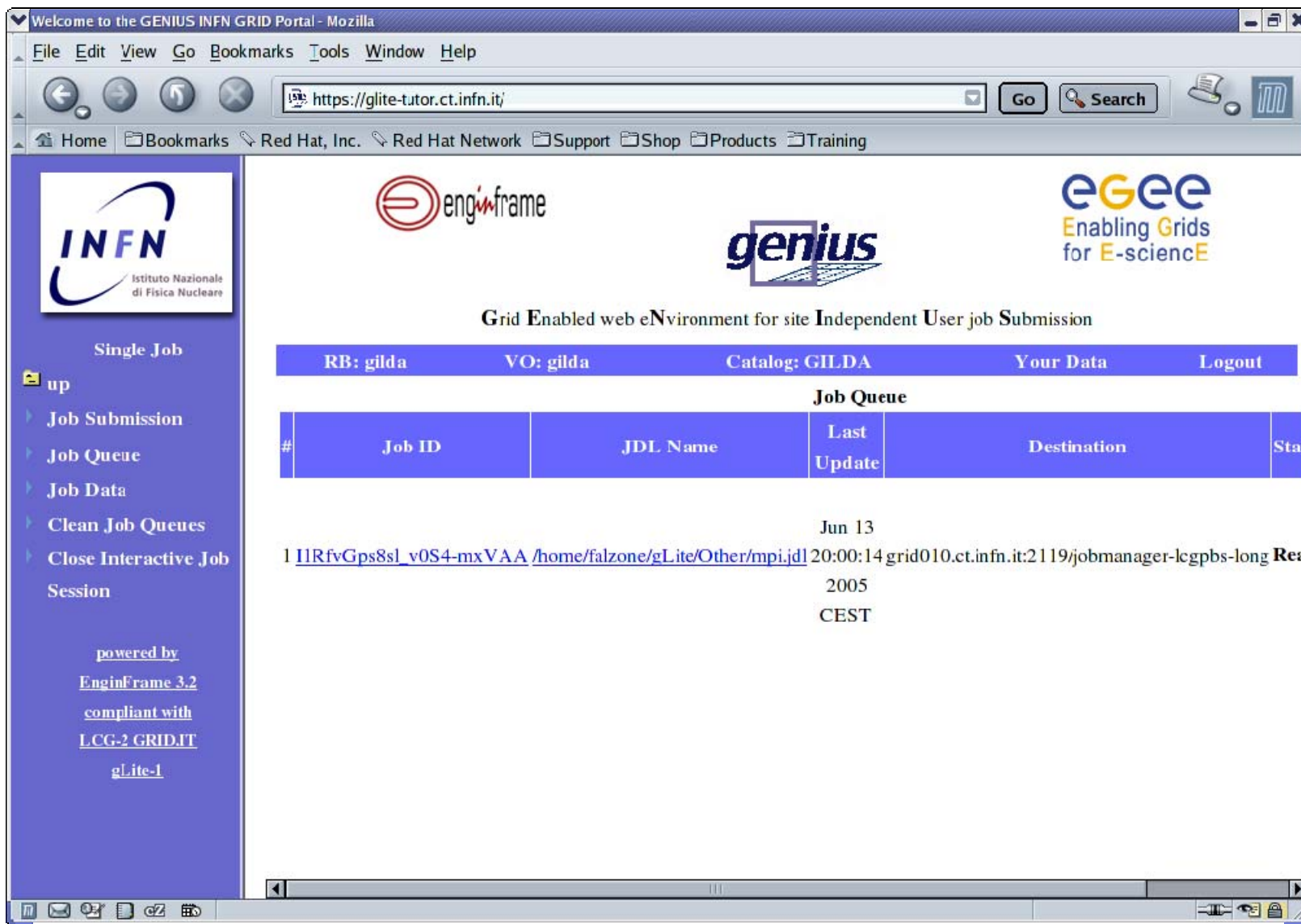
The job identifier has been saved in the following file:
/home/falzone/.genius/.tmp_subnittedjob_falzone
=====

Single Job

up

- Job Submission
- Job Queue
- Job Data
- Clean Job Queues
- Close Interactive Job Session

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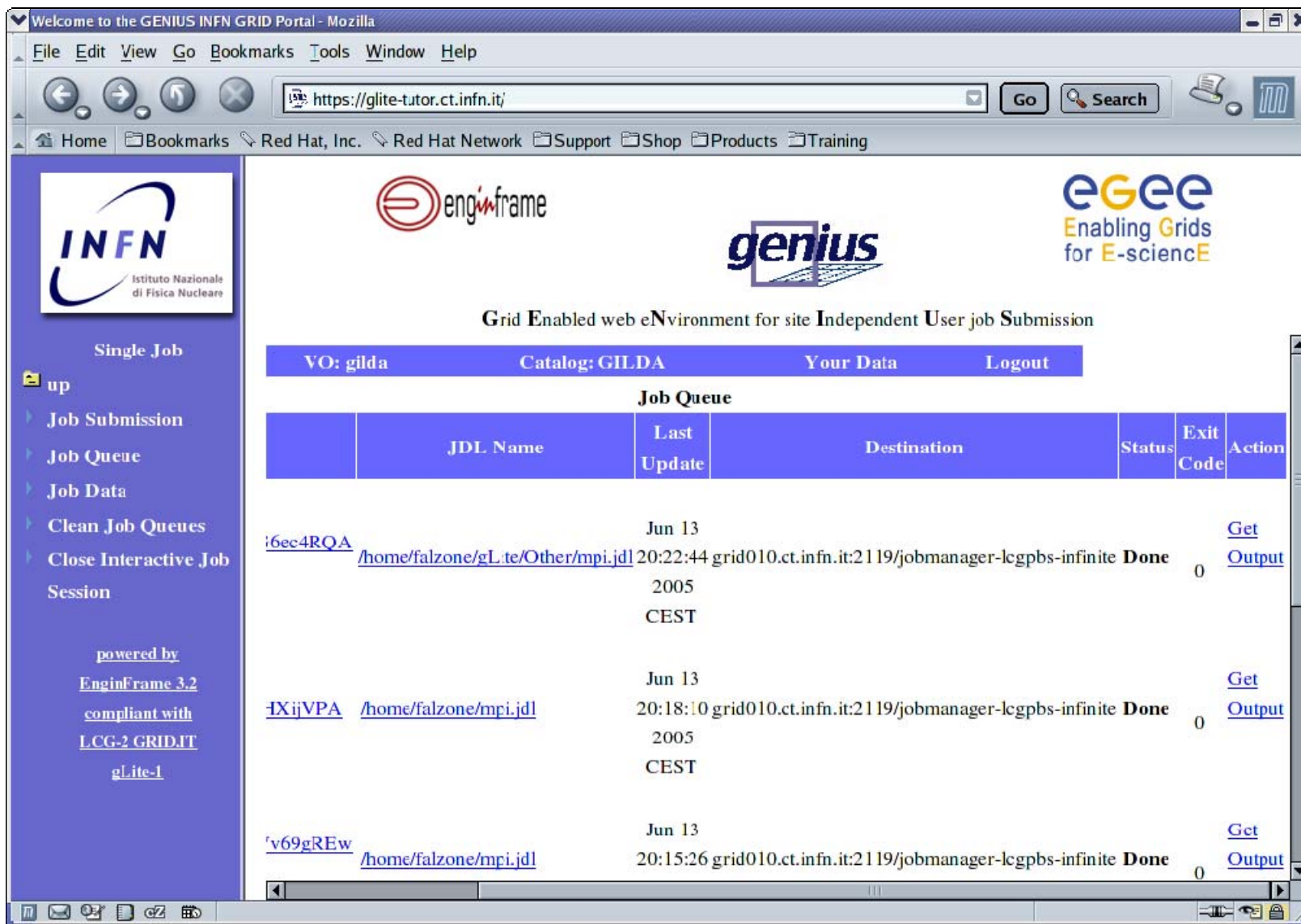




Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda
VO: gilda
Catalog: GILDA
Your Data
Logout

Job Queue

#	Job ID	JDL Name	Last Update	Destination	Stat
1	IIRfvGps8sl_v0S4-mxVAA	/home/falzone/gLite/Other/mpi.jdl	20:00:14 2005 CEST	grid010.ct.infn.it:2119/jobmanager-lcgpbs-long	Rea







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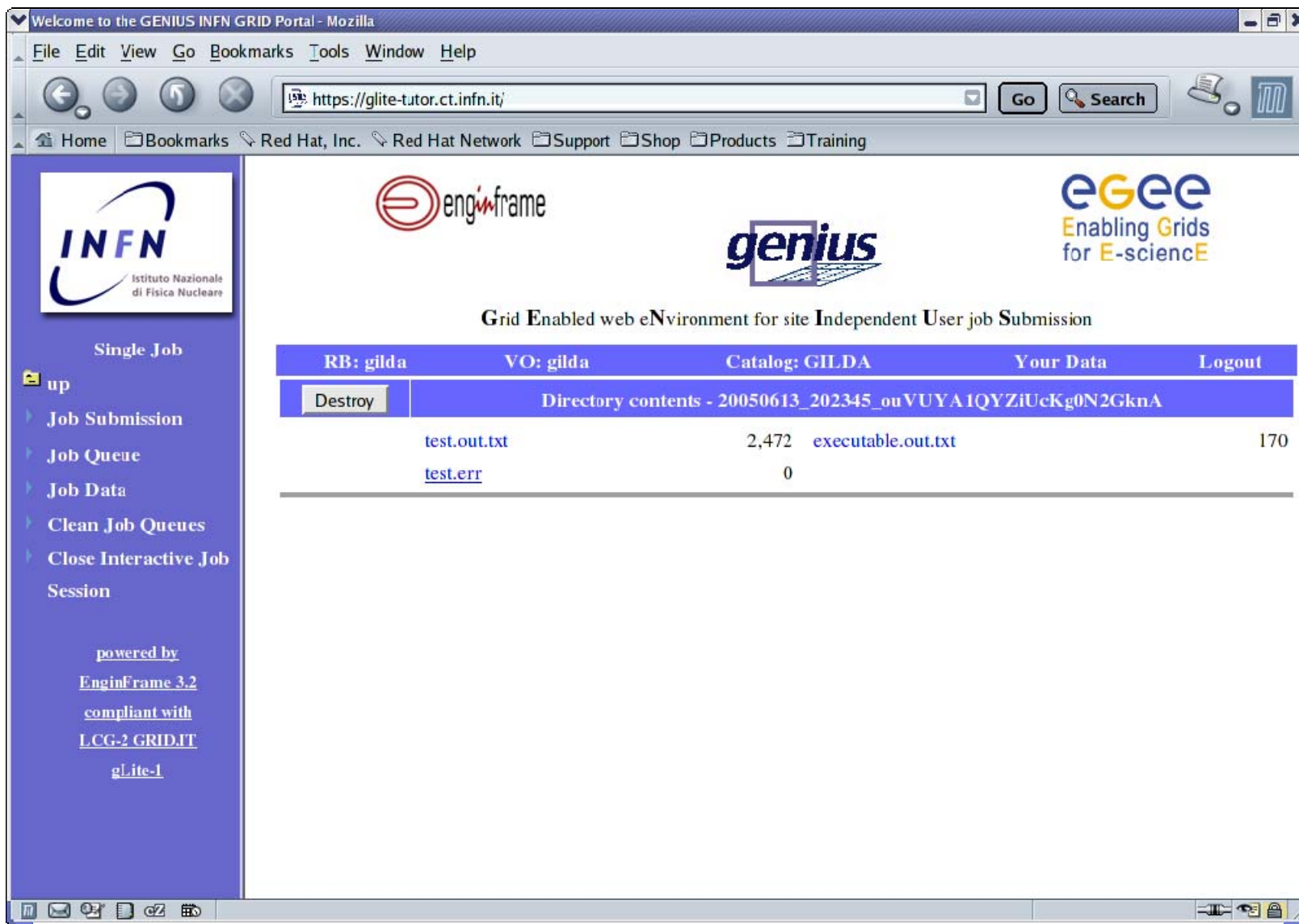
Grid Enabled web eNvironment for site Independent User job Submission

VO: gilda Catalog: GILDA Your Data Logout

Job Queue

JDL Name	Last Update	Destination	Status	Exit Code	Action
!6ec4RQA /home/falzone/gLite/Other/mpi.jdl	Jun 13 20:22:44	grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite	Done	0	Get Output
	2005	CEST			
!XijVPA /home/falzone/mpi.jdl	Jun 13 20:18:10	grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite	Done	0	Get Output
	2005	CEST			
!v69gREw /home/falzone/mpi.jdl	Jun 13 20:15:26	grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite	Done	0	Get Output

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

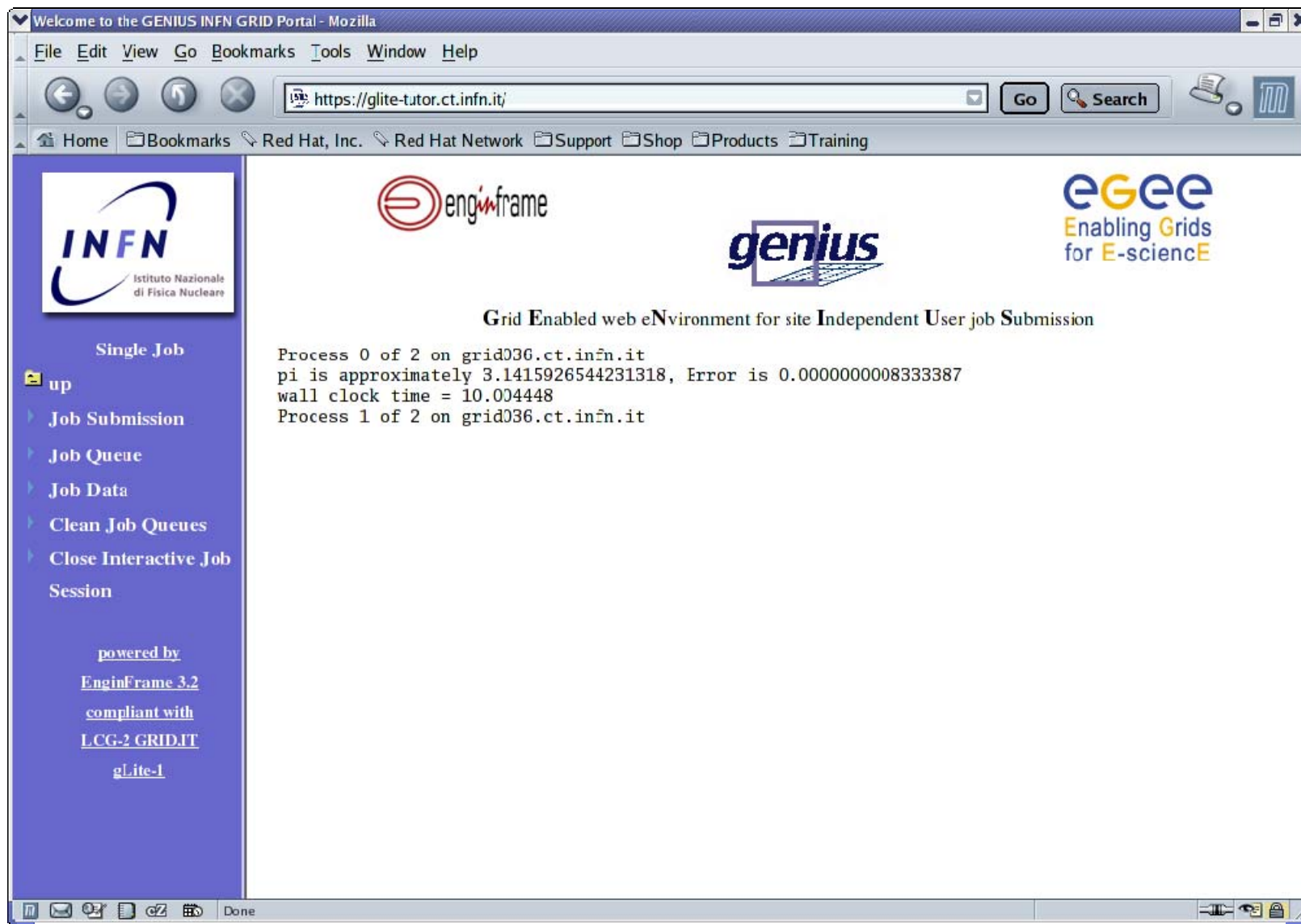
Destroy Directory contents - 20050613_202345_on VUYA 1QYZiUcKg0N2GknA

test.out.txt	2,472	executable.out.txt	170
test.err	0		

Single Job

- up
- Job Submission
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Process 0 of 2 on grid036.ct.infn.it
pi is approximately 3.1415926544231318, Error is 0.0000000008333387
wall clock time = 10.004448
Process 1 of 2 on grid036.ct.infn.it

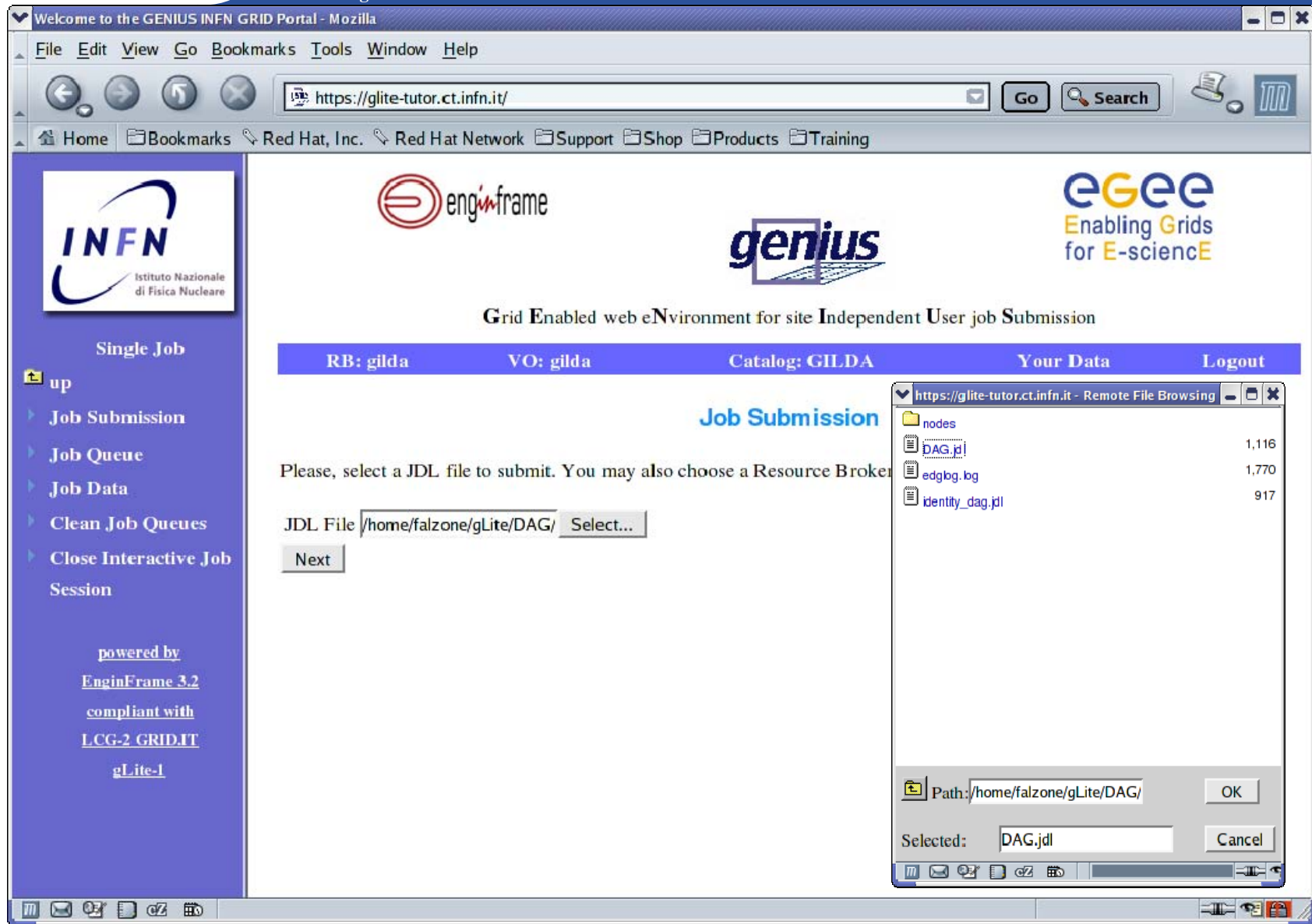
Single Job

up

- Job Submission
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Job Submission

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

JDL File

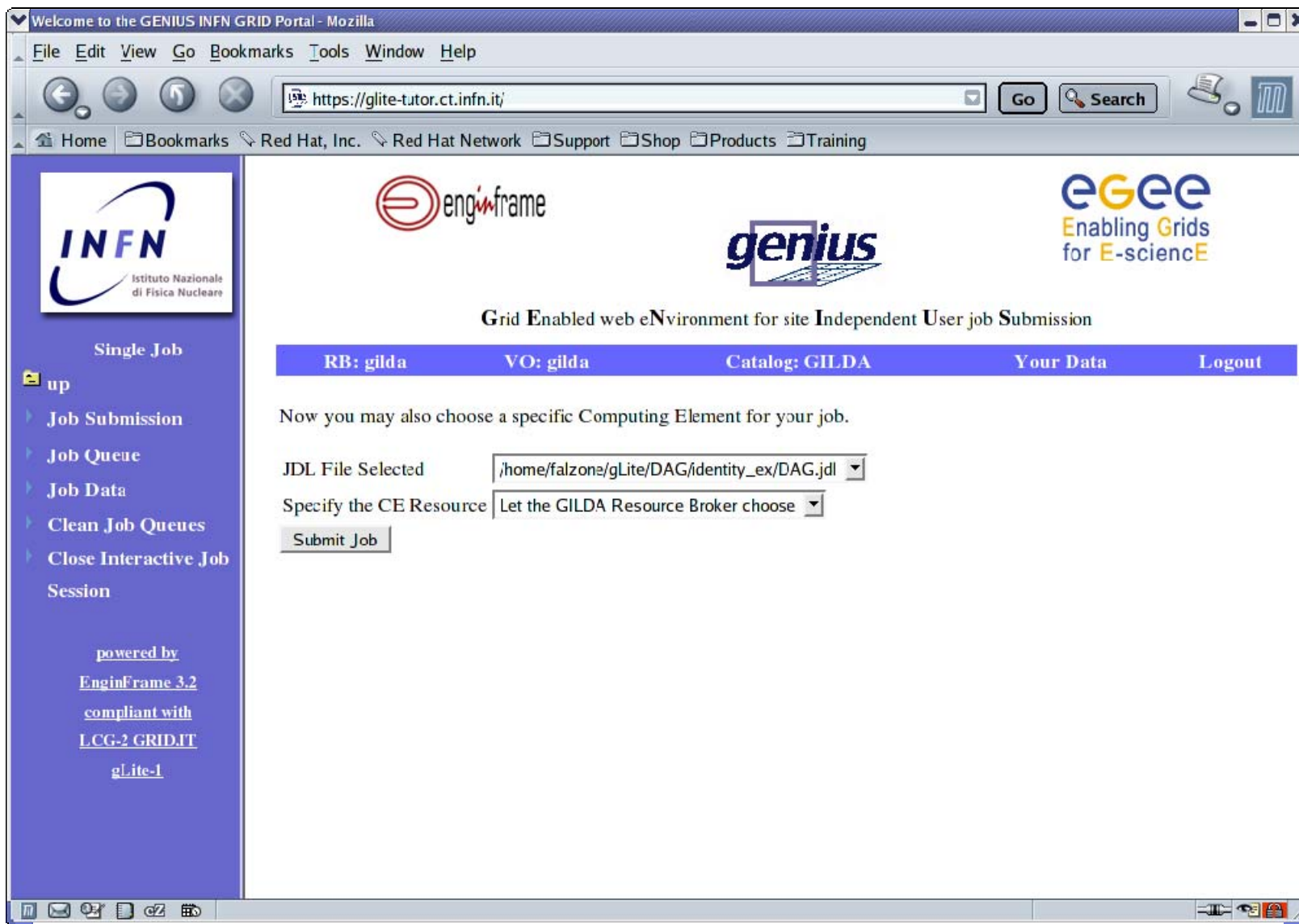
powered by
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https://glite-tutor.ct.infn.it - Remote File Browsing

nodes	
DAG.jdl	1,116
edglog.bg	1,770
identity_dag.jdl	917

Path: /home/falzone/gLite/DAG/

Selected: DAG.jdl







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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

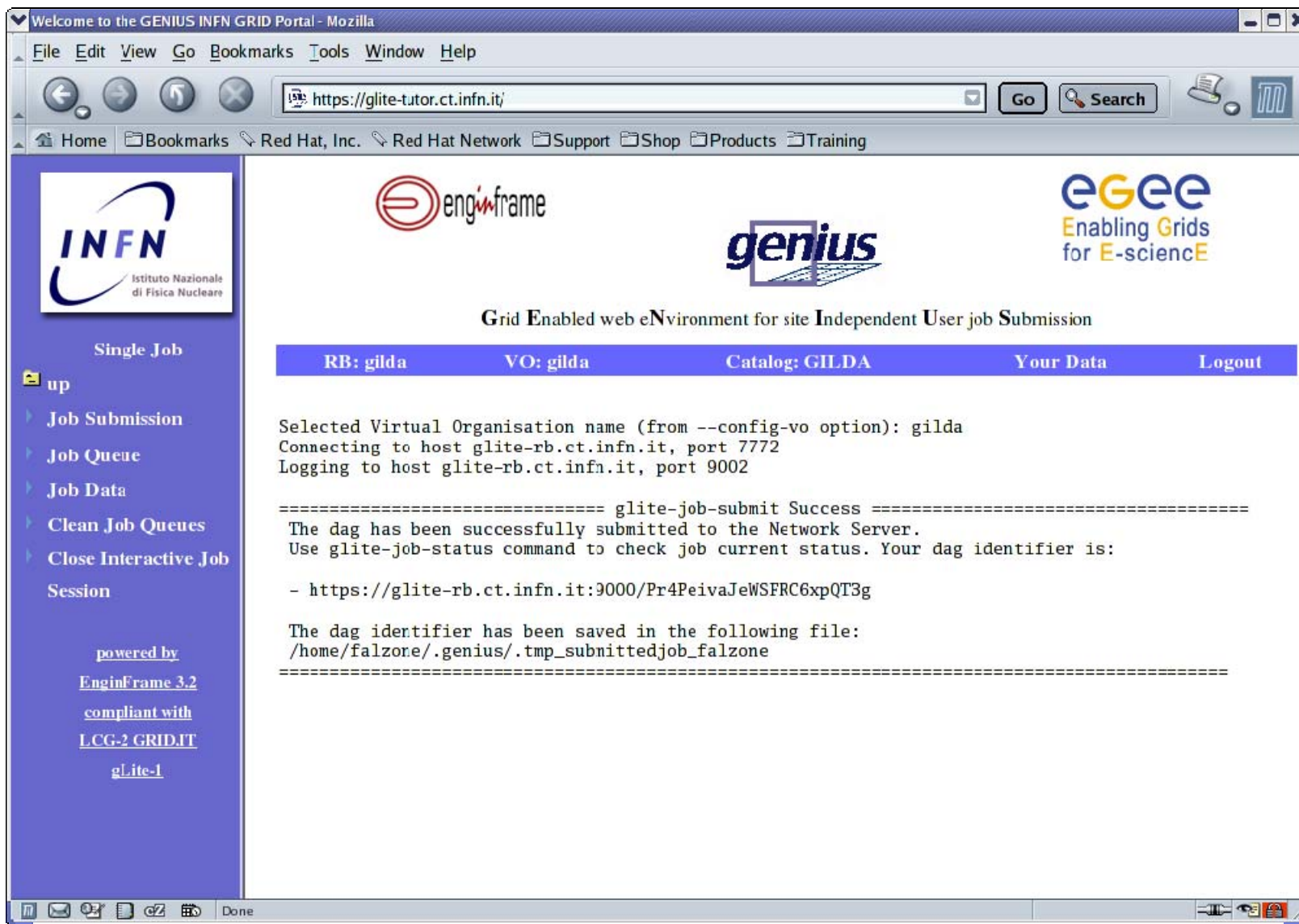
Now you may also choose a specific Computing Element for your job.

JDL File Selected

Specify the CE Resource

Single Job
 up
 Job Submission
 Job Queue
 Job Data
 Clean Job Queues
 Close Interactive Job Session

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Selected Virtual Organisation name (from --config-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 dag has been successfully submitted to the Network Server.
 Use glite-job-status command to check job current status. Your dag identifier is:

- https://glite-rb.ct.infn.it:9000/Pr4PeivaJeWSFRC6xpQT3g

The dag identifier has been saved in the following file:
 /home/falzone/.genius/.tmp_subnittedjob_falzone
 =====

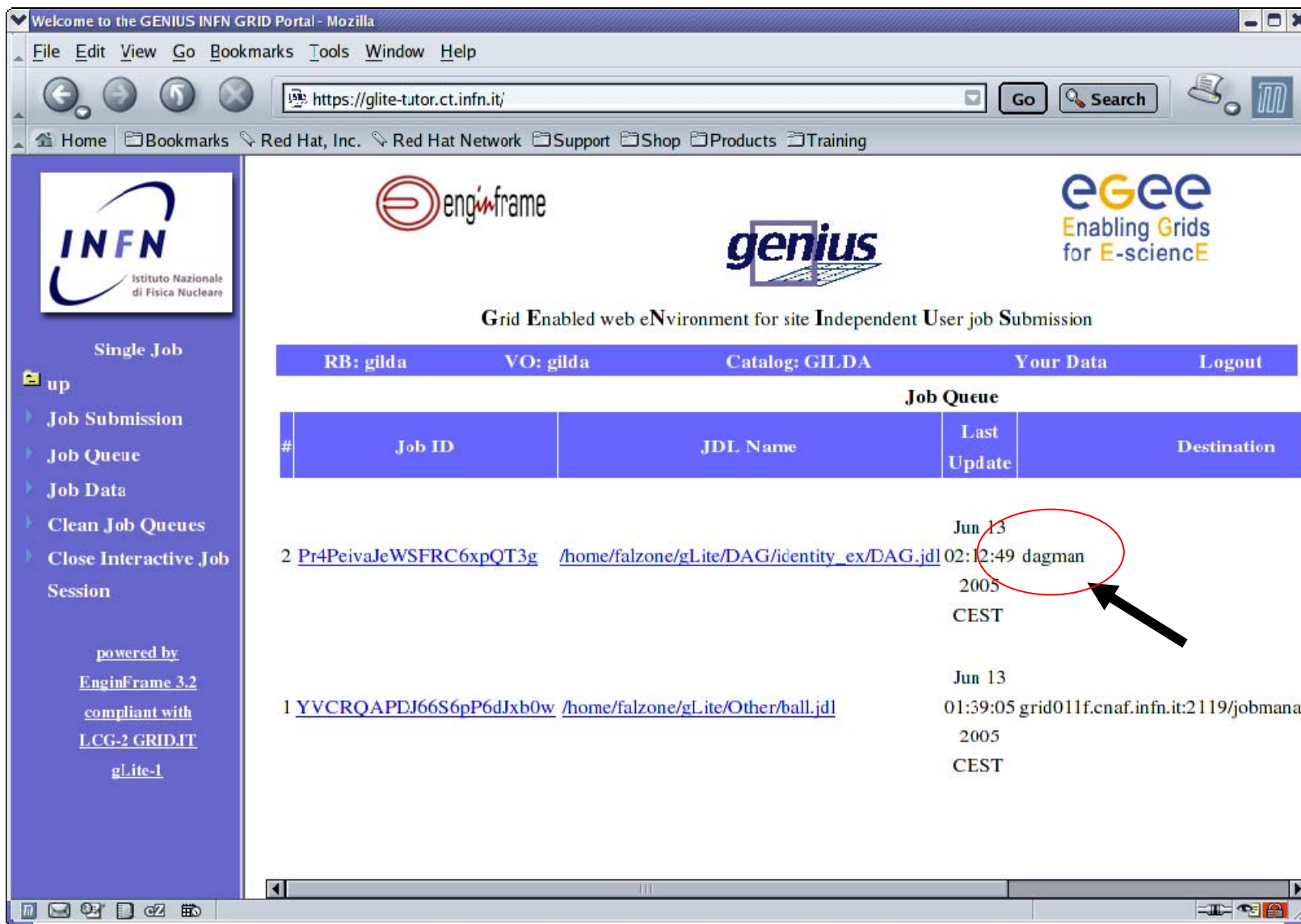
Single Job

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Done







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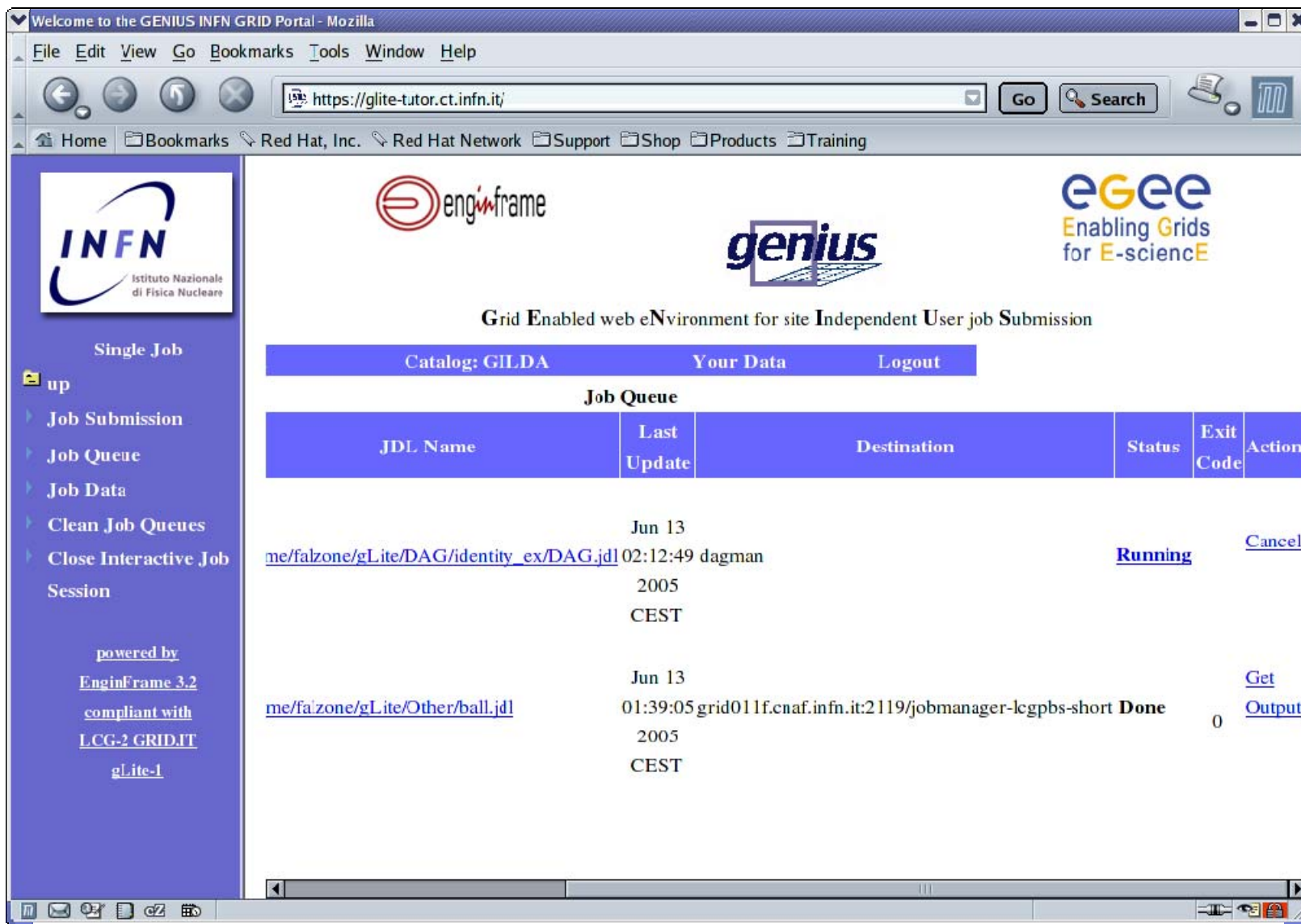
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Job Queue

#	Job ID	JDL Name	Last Update	Destination
2	Pr4PeivaJeWSFRC6xpQT3g	/home/falzone/gLite/DAG/identity_ex/DAG.jdl	Jun 13 02:12:49	dagman
1	YVCRQAPDJ66S6pP6dJxb0w	/home/falzone/gLite/Other/ball.jdl	Jun 13 01:39:05	grid011f.cnaf.infn.it:2119/jobmanag

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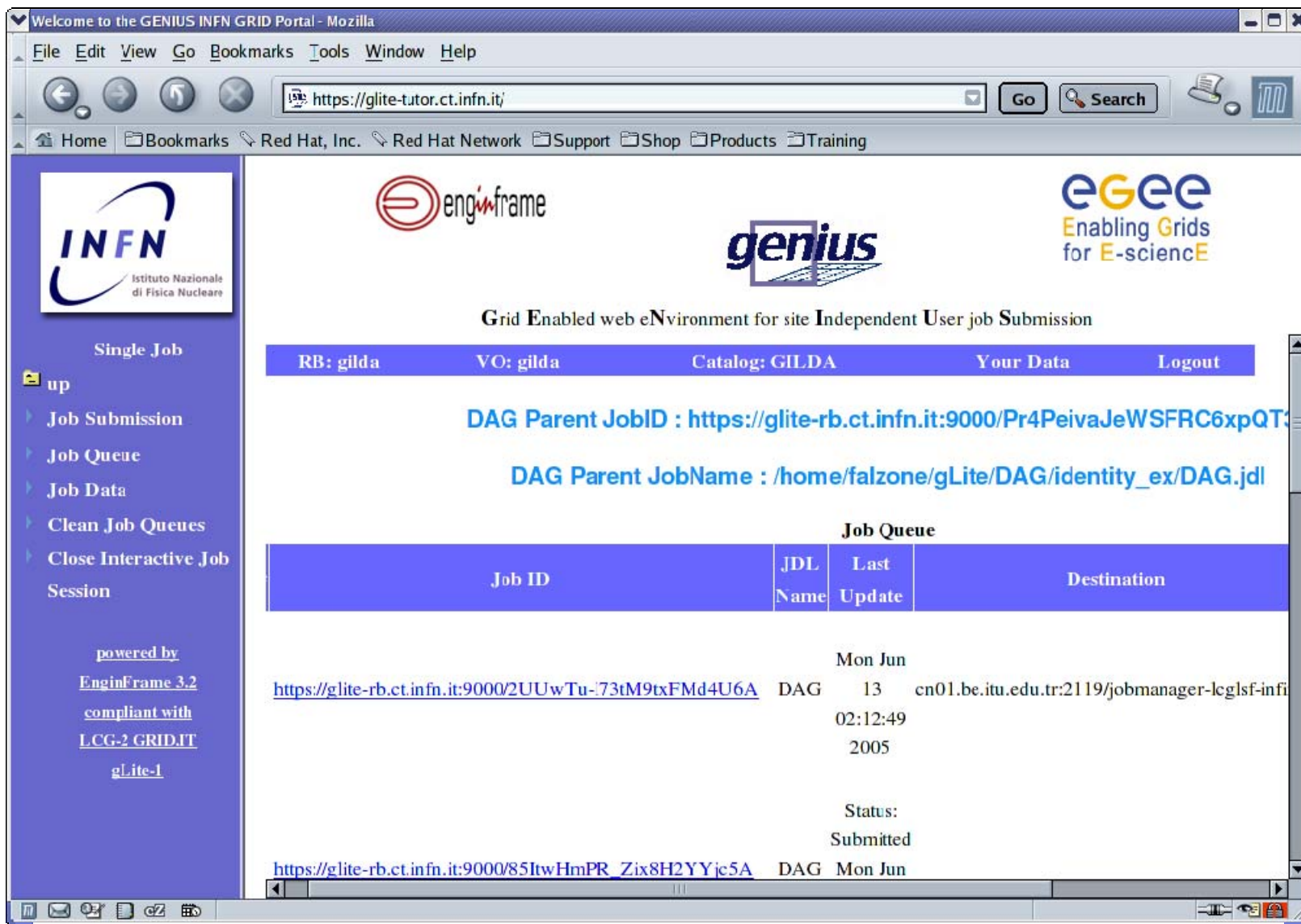
Grid Enabled web eNvironment for site Independent User job Submission

Catalog: GILDA Your Data Logout

Job Queue

JDL Name	Last Update	Destination	Status	Exit Code	Action
me/falzone/gLite/DAG/identity_ex/DAG.jdl	Jun 13 02:12:49 dagman		Running		Cancel
me/falzone/gLite/Other/ball.jdl	Jun 13 01:39:05 grid011f.cnaf.infn.it:2119/jobmanager-legpbs-short		Done	0	Get Output

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

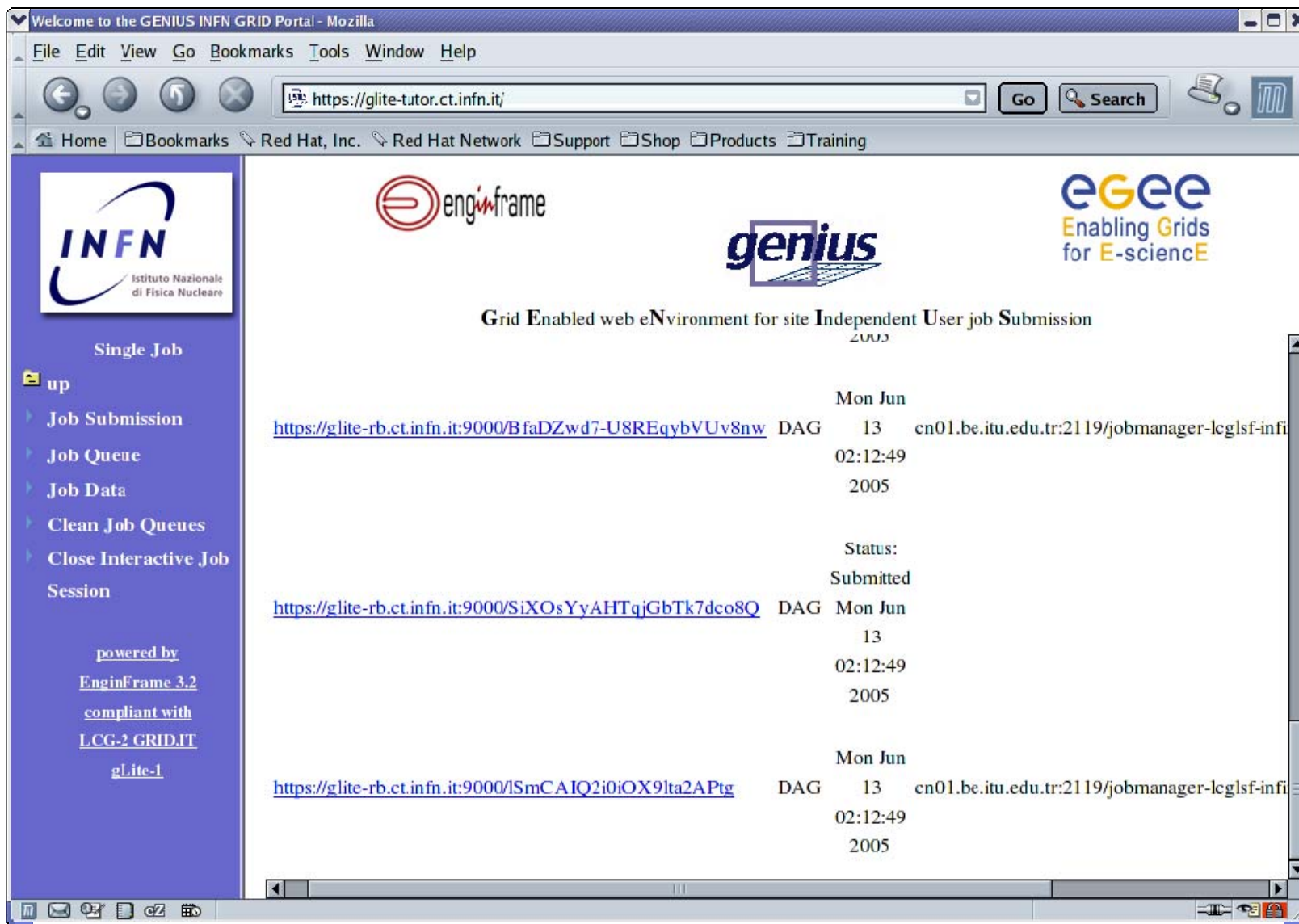
DAG Parent JobID : <https://glite-rb.ct.infn.it:9000/Pr4PeivaJeWSFRC6xpQT3>

DAG Parent JobName : /home/falzone/gLite/DAG/identity_ex/DAG.jdl

Job Queue

Job ID	JDL Name	Last Update	Destination
https://glite-rb.ct.infn.it:9000/2UUwTu-73tM9txFMd4U6A	DAG	Mon Jun 13 02:12:49 2005	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infn
https://glite-rb.ct.infn.it:9000/85ltwHmPR_Zix8H2YYjc5A	DAG	Mon Jun	Status: Submitted

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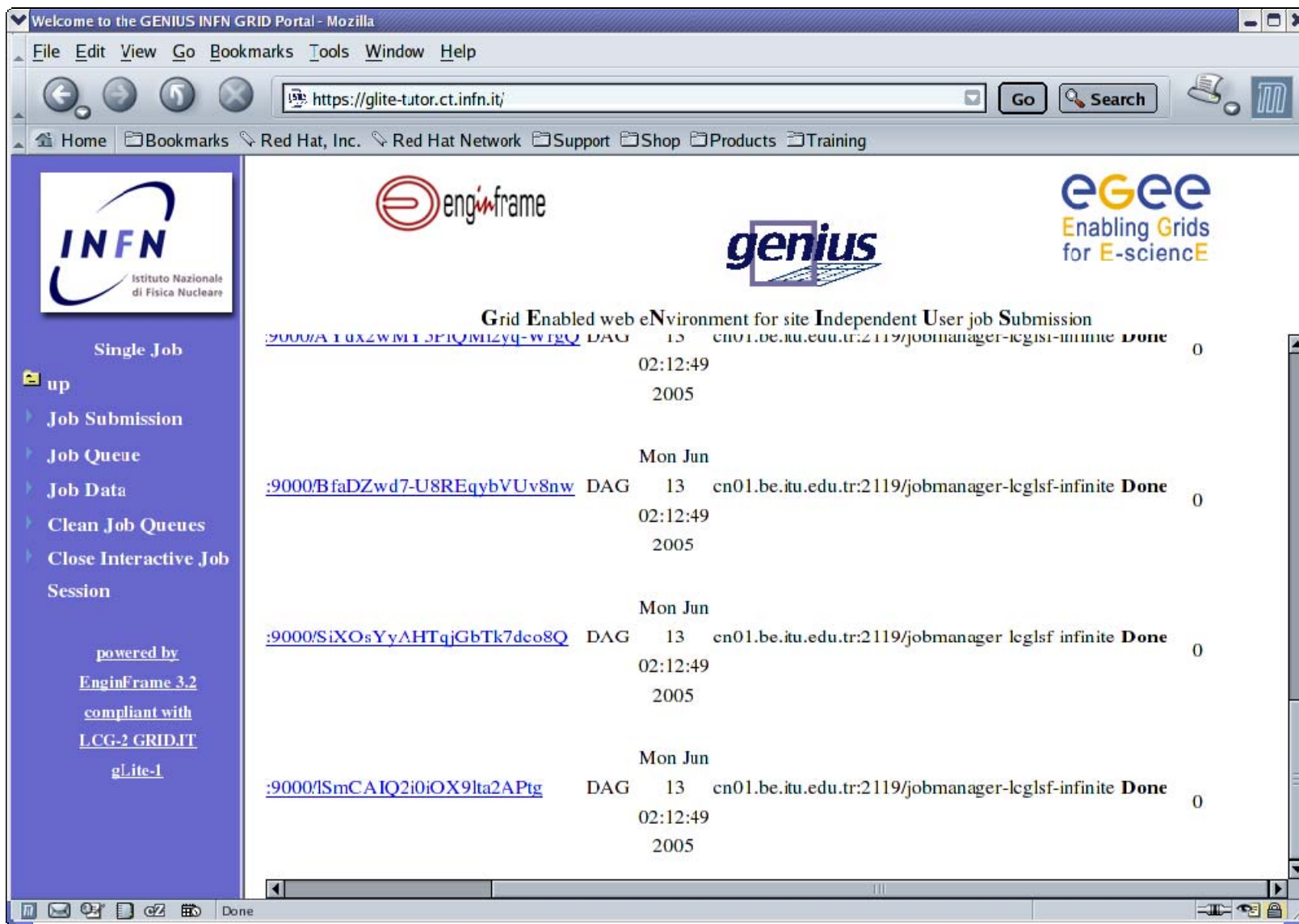
2005

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- Close Interactive Job Session

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URL	Type	Mon	Jun	Time	Year	Status
https://glite-rb.ct.infn.it:9000/BfaDZwd7-U8REqybVUv8nw	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infn	02:12:49	2005	Submitted
https://glite-rb.ct.infn.it:9000/SiXOsYyAHTqjGbTk7dco8Q	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infn	02:12:49	2005	Submitted
https://glite-rb.ct.infn.it:9000/ISmCAIQ2i0iOX9lta2APtg	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infn	02:12:49	2005	Submitted







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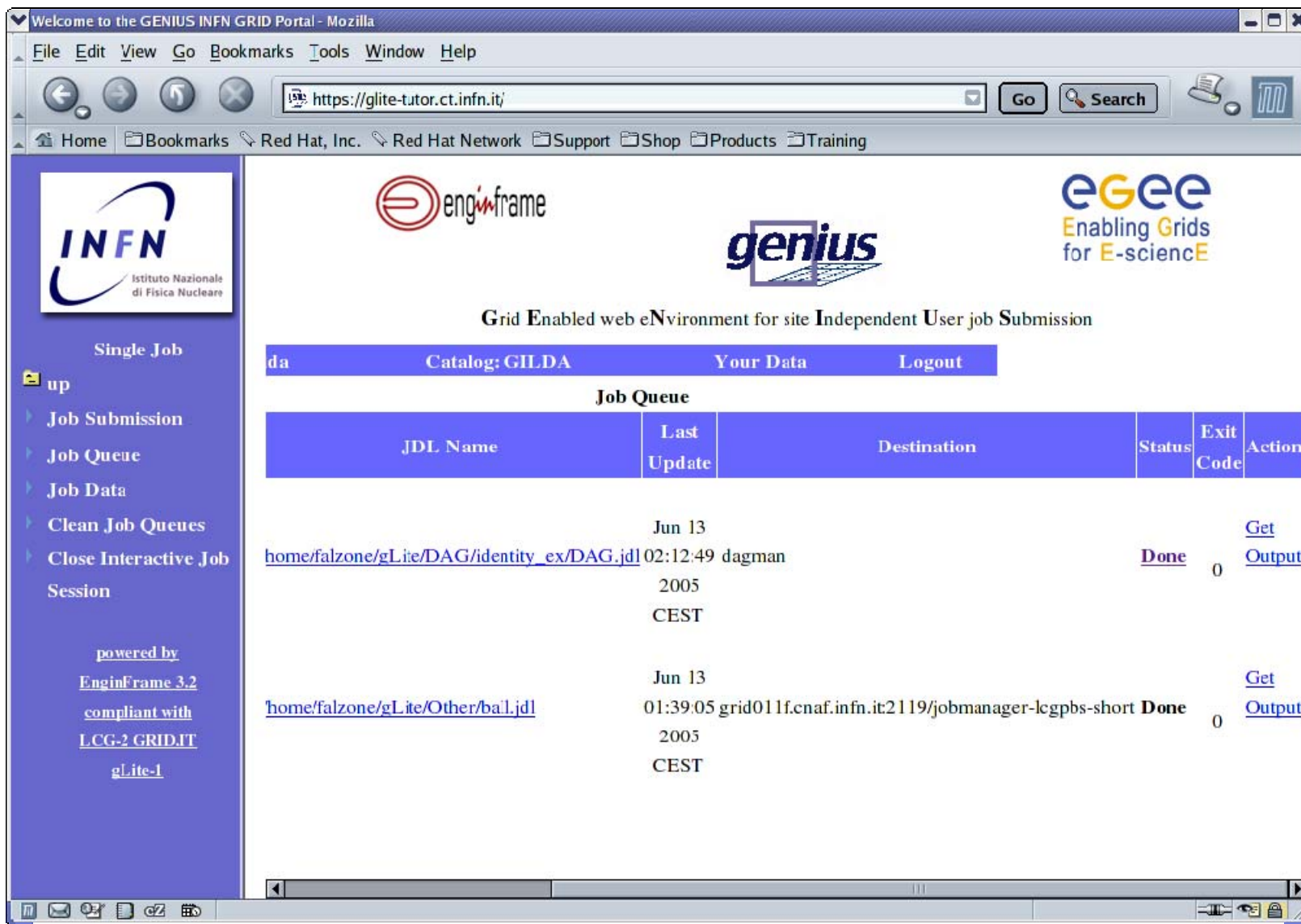





Grid Enabled web eNvironment for site Independent User job Submission

:9000/A1UXZWM13FTQMLZYQ-WF2Q	DAG	15	cn01.be.itu.edu.tr:2119/jobmanager-lcgisf-infinite	Done	0
		02:12:49			
		2005			
		Mon Jun			
:9000/BfaDZwd7-U8REqybVUv8nw	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	Done	0
		02:12:49			
		2005			
		Mon Jun			
:9000/SiXOsYyAHTqjGbTk7dco8Q	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	Done	0
		02:12:49			
		2005			
		Mon Jun			
:9000/ISmCAIQ2i0iOX9lta2APtg	DAG	13	cn01.be.itu.edu.tr:2119/jobmanager-lcglsf-infinite	Done	0
		02:12:49			
		2005			
		Mon Jun			

Single Job
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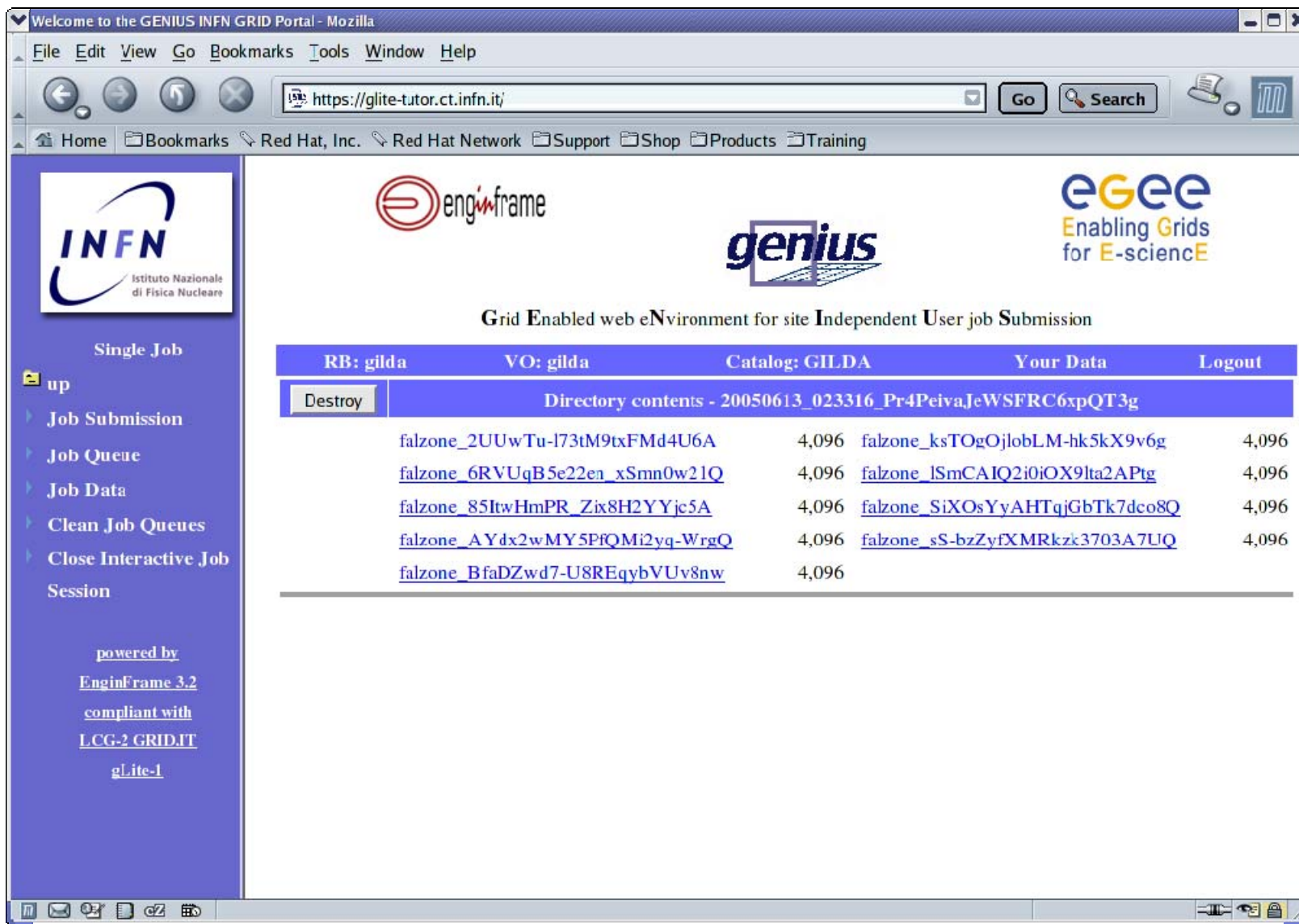
Grid Enabled web eNvironment for site Independent User job Submission

da Catalog: GILDA Your Data Logout

Job Queue

JDL Name	Last Update	Destination	Status	Exit Code	Action
home/falzone/gLite/DAG/identity_ex/DAG.jdl	Jun 13 02:12:49	dagman	Done	0	Get Output
home/falzone/gLite/Other/ba1.jdl	Jun 13 01:39:05	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	Done	0	Get Output

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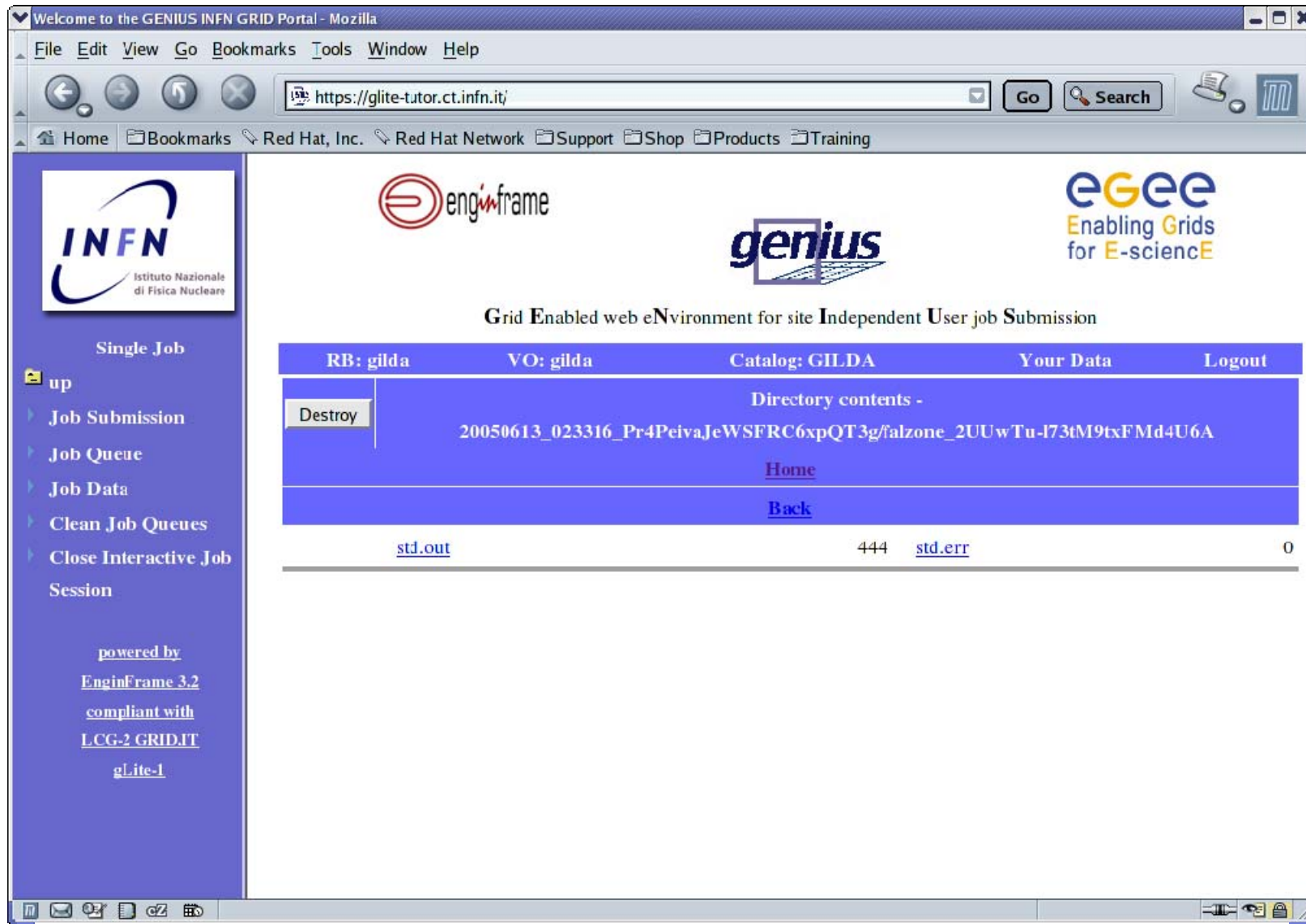
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Destroy Directory contents - 20050613_023316_Pr4PeivaJeWSFRC6xpQT3g

falzone_2UUwTu-l73tM9txFMd4U6A	4,096	falzone_ksTOgOjlobLM-hk5kX9v6g	4,096
falzone_6RVUqB5e22en_xSrn0w21Q	4,096	falzone_lSmCAIQ2i0iOX9lta2APtg	4,096
falzone_85ltwHmPR_Zix8H2YYjc5A	4,096	falzone_SiXOsYyAHTqjGbTk7dco8Q	4,096
falzone_AYdx2wMY5PfQMi2yq-WrgQ	4,096	falzone_sS-bzZyfXMRkzk3703A7UIQ	4,096
falzone_BfaDZwd7-U8REqybVUv8nw	4,096		

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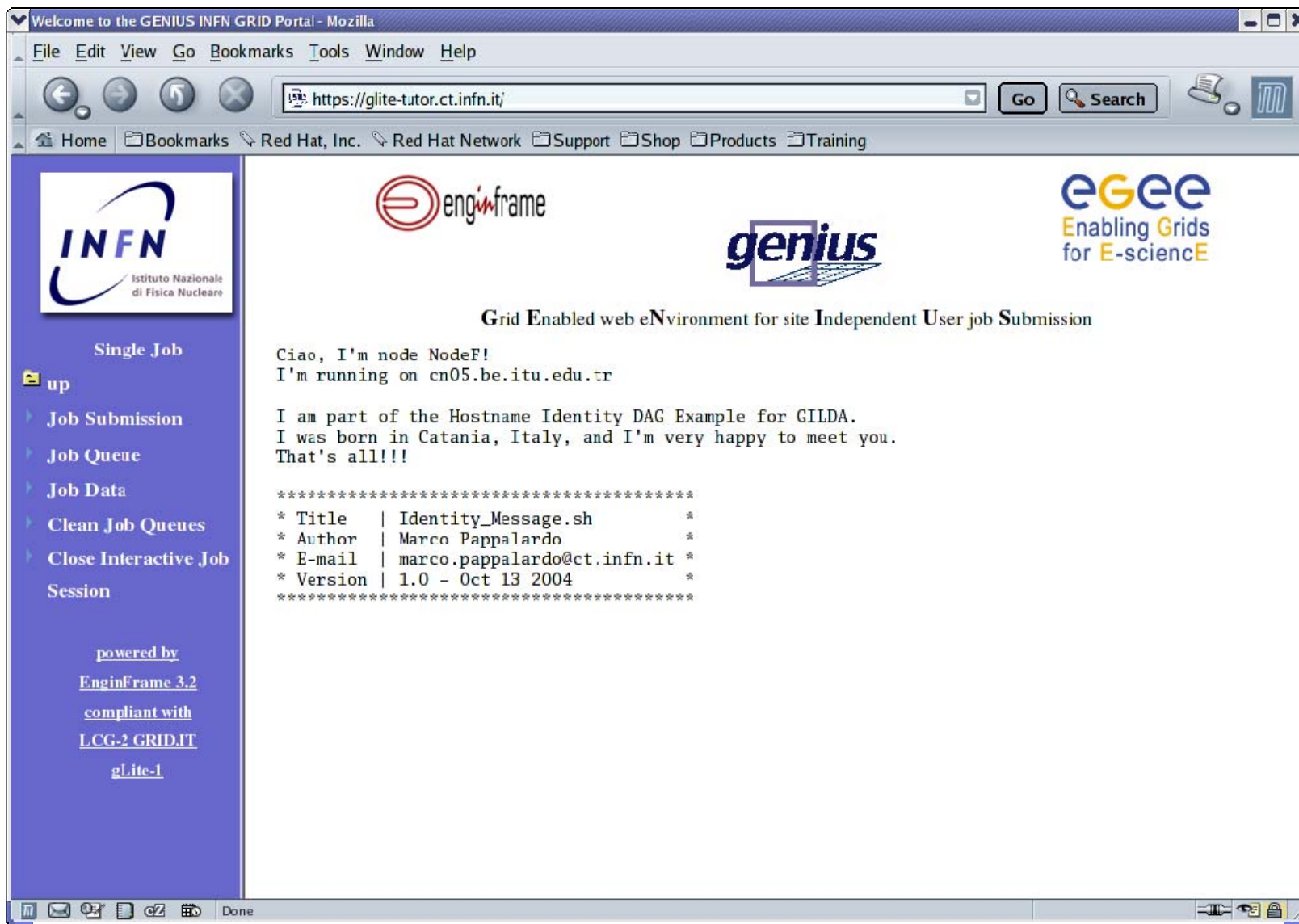
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RB: gilda	VO: gilda	Catalog: GILDA	Your Data	Logout
Directory contents -				
Destroy 20050613_023316_Pr4Peiva,JeWSFRC6xpQT3g/falzone_2UUwTu-173tM9txFMd4U6A				
Home Back				
std.out		444	std.err	
			0	

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Ciao, I'm node NodeF!
I'm running on cn05.be.itu.edu.tr

I am part of the Hostname Identity DAG Example for GILDA.
I was born in Catania, Italy, and I'm very happy to meet you.
That's all!!!

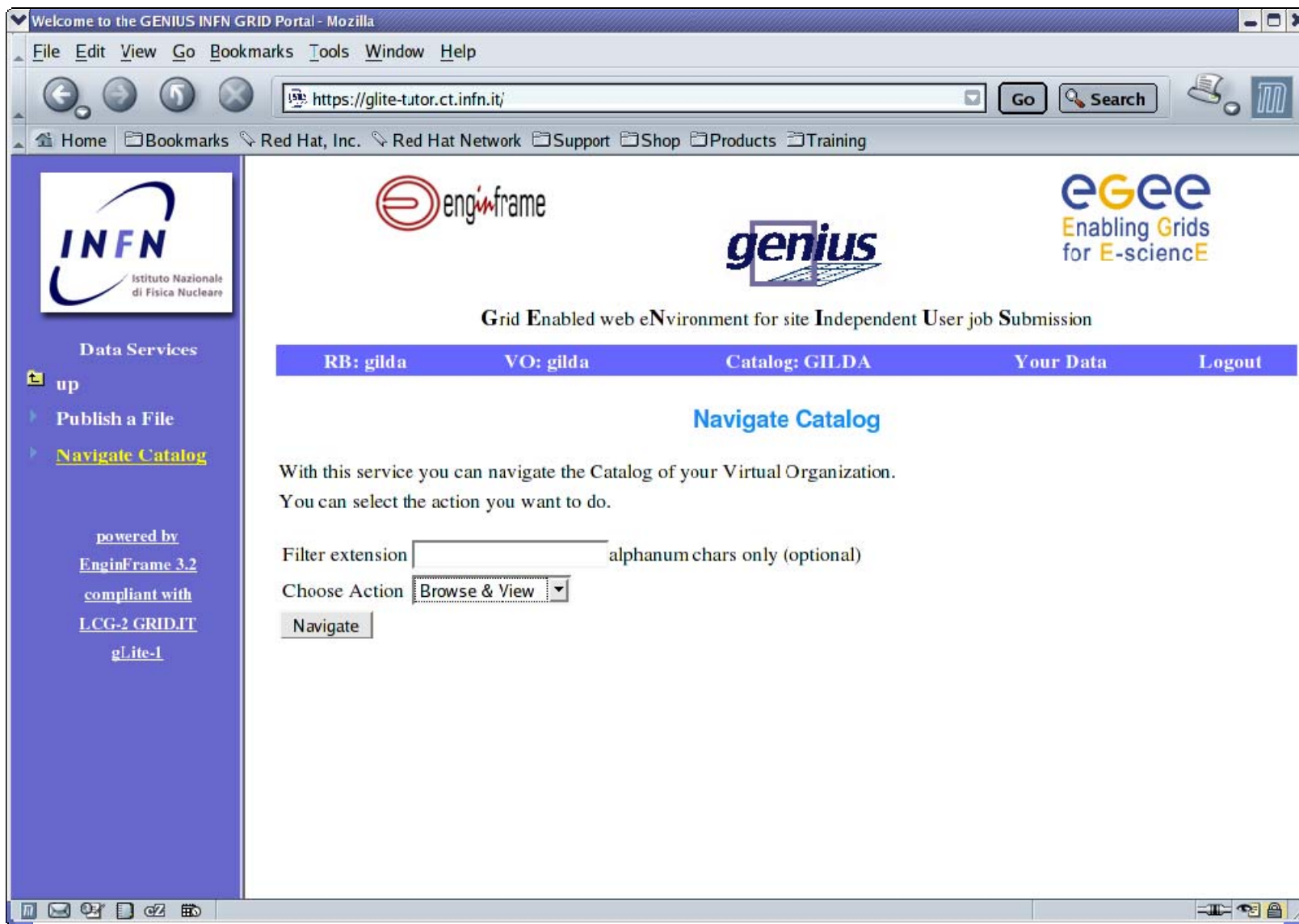
```

*****
* Title   | Identity_Message.sh      *
* Author  | Marco Pappalardo         *
* E-mail  | marco.pappalardo@ct.infn.it *
* Version | 1.0 - Oct 13 2004        *
*****

```

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization.
You can select the action you want to do.

Filter extension alphanumeric chars only (optional)

Choose Action **Browse & View**

Navigate

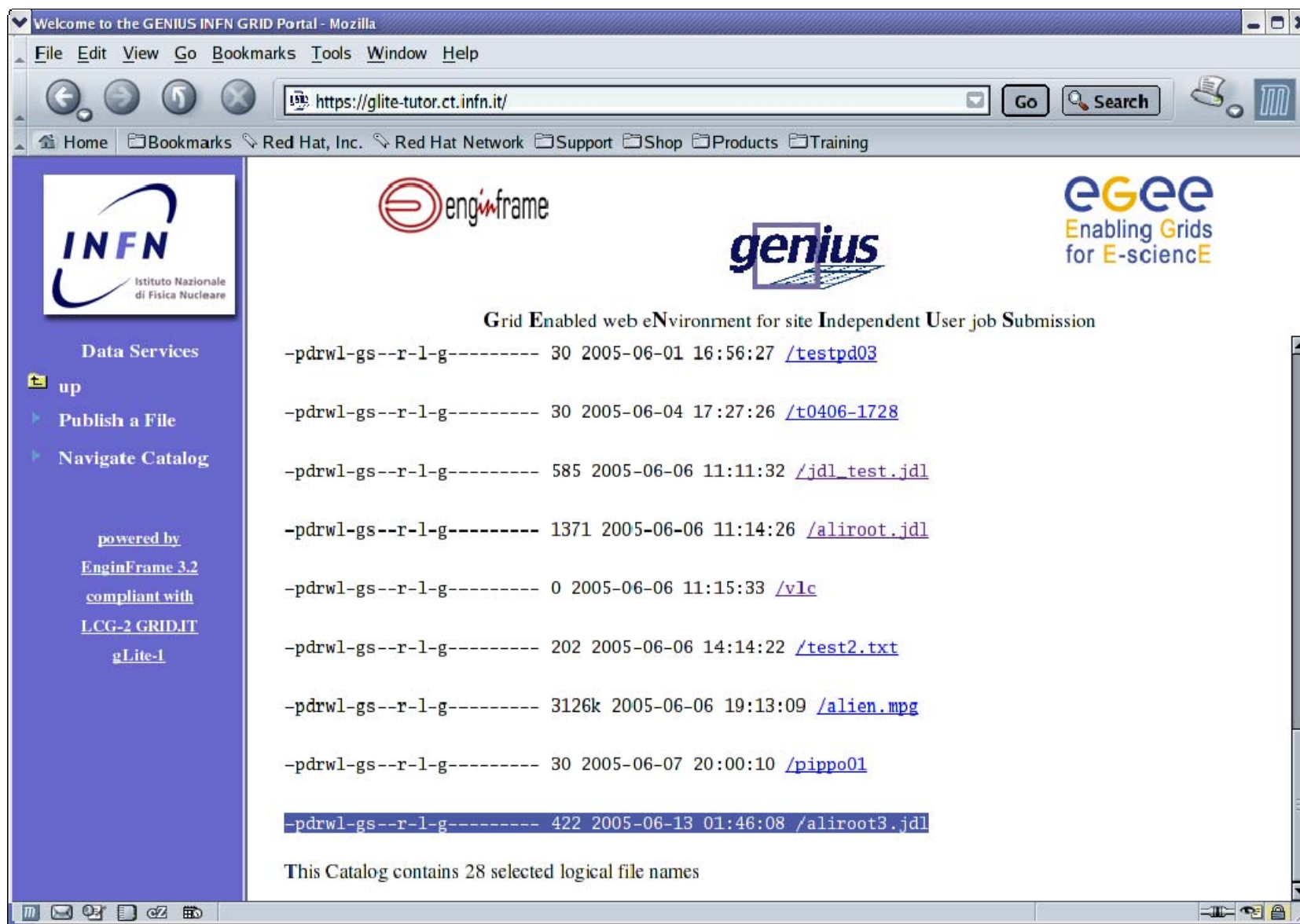
Data Services

up

Publish a File

[Navigate Catalog](#)

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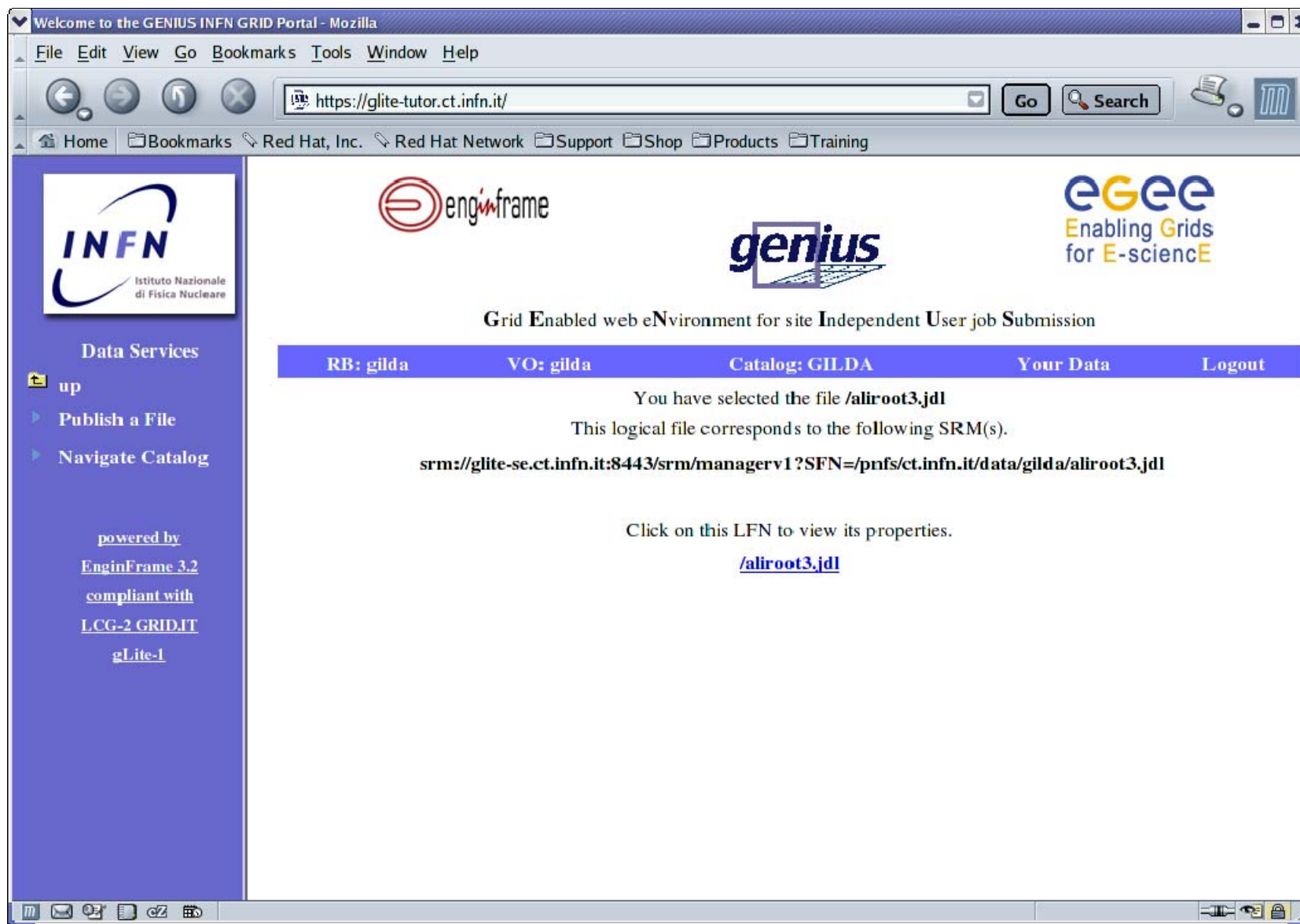





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-pdrwl-gs--r-l-g-----	30	2005-06-01	16:56:27	/testpd03
-pdrwl-gs--r-l-g-----	30	2005-06-04	17:27:26	/t0406-1728
-pdrwl-gs--r-l-g-----	585	2005-06-06	11:11:32	/jdl_test.jdl
-pdrwl-gs--r-l-g-----	1371	2005-06-06	11:14:26	/aliroot.jdl
-pdrwl-gs--r-l-g-----	0	2005-06-06	11:15:33	/vlc
-pdrwl-gs--r-l-g-----	202	2005-06-06	14:14:22	/test2.txt
-pdrwl-gs--r-l-g-----	3126k	2005-06-06	19:13:09	/alien.mpg
-pdrwl-gs--r-l-g-----	30	2005-06-07	20:00:10	/pippo01
-pdrwl-gs--r-l-g-----	422	2005-06-13	01:46:08	/aliroot3.jdl

This Catalog contains 28 selected logical file names

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/alroot3.jdl**

This logical file corresponds to the following SRM(s).

srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/alroot3.jdl

Click on this LFN to view its properties.

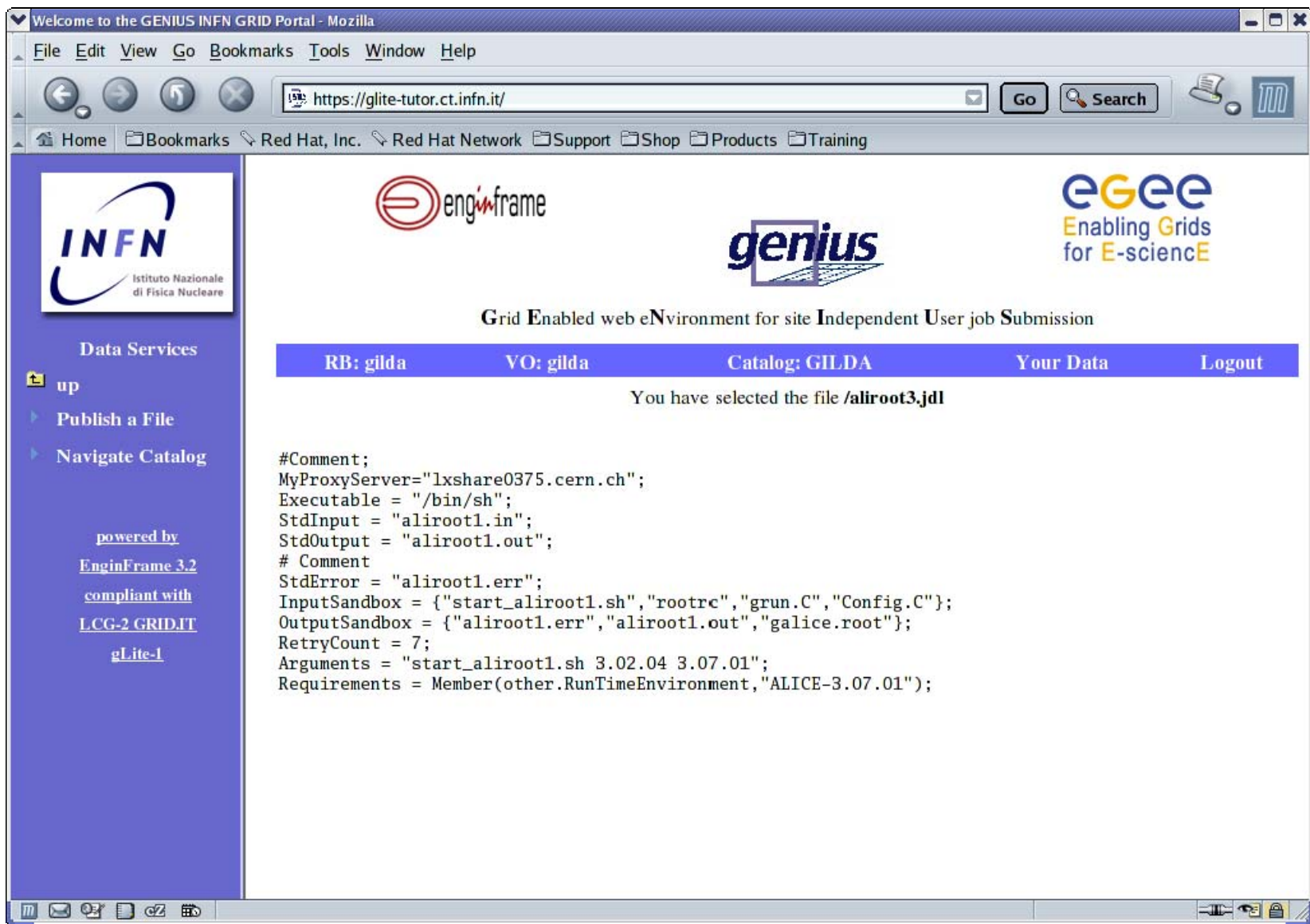
[/alroot3.jdl](#)

Data Services

up

- Publish a File
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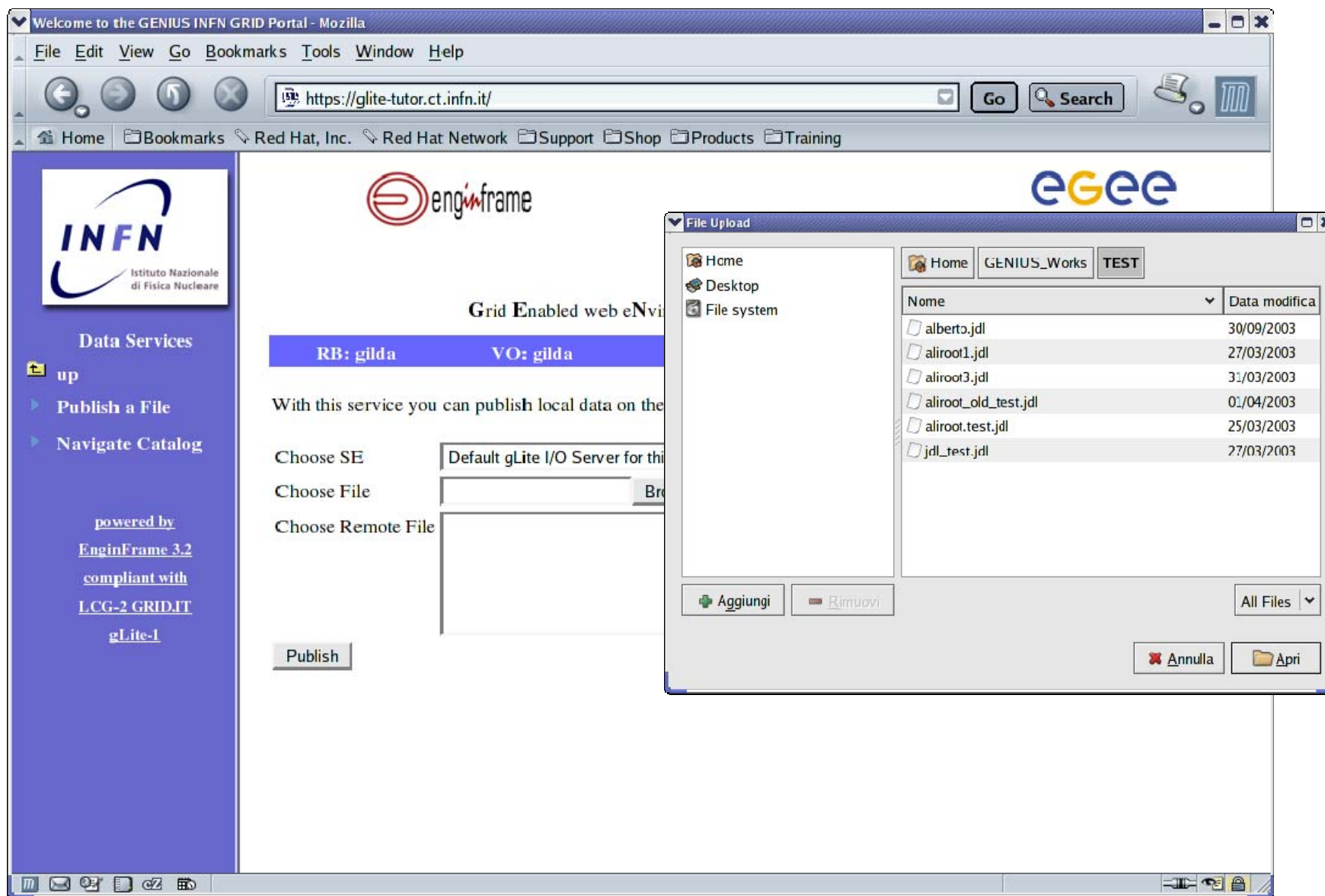
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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/aliroot3.jdl**

```
#Comment;
MyProxyServer="lxshare0375.cern.ch";
Executable = "/bin/sh";
StdInput = "aliroot1.in";
StdOutput = "aliroot1.out";
# Comment
StdError = "aliroot1.err";
InputSandbox = {"start_aliroot1.sh","rootc","grun.C","Config.C"};
OutputSandbox = {"aliroot1.err","aliroot1.out","galice.root"};
RetryCount = 7;
Arguments = "start_aliroot1.sh 3.02.04 3.07.01";
Requirements = Member(other.RunTimeEnvironment,"ALICE-3.07.01");
```

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RB: gilda VO: gilda

With this service you can publish local data on the

Choose SE: Default gLite I/O Server for thi

Choose File: []

Choose Remote File: []

Publish

File Upload

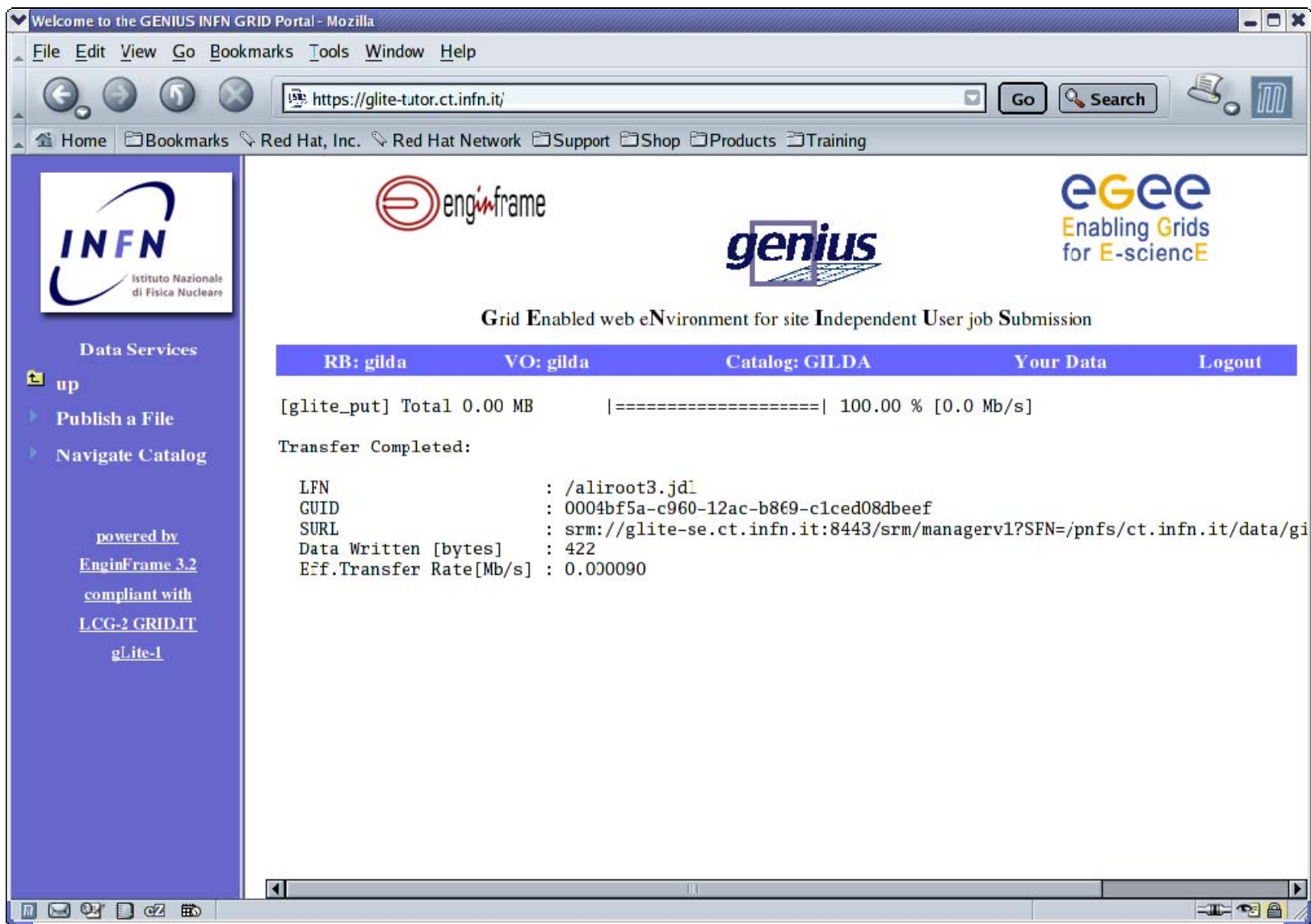
Home GENIUS_Works TEST

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
jdl_test.jdl	27/03/2003

Aggiungi Rimuovi

All Files

Annulla Apri



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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

[glite_put] Total 0.00 MB |=====| 100.00 % [0.0 Mb/s]

Transfer Completed:

LFN : /aliroot3.jdl
 GUID : 0004bf5a-c960-12ac-b869-c1ced08dbeef
 SURL : srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gi
 Data Written [bytes] : 422
 Eff. Transfer Rate [Mb/s] : 0.000090

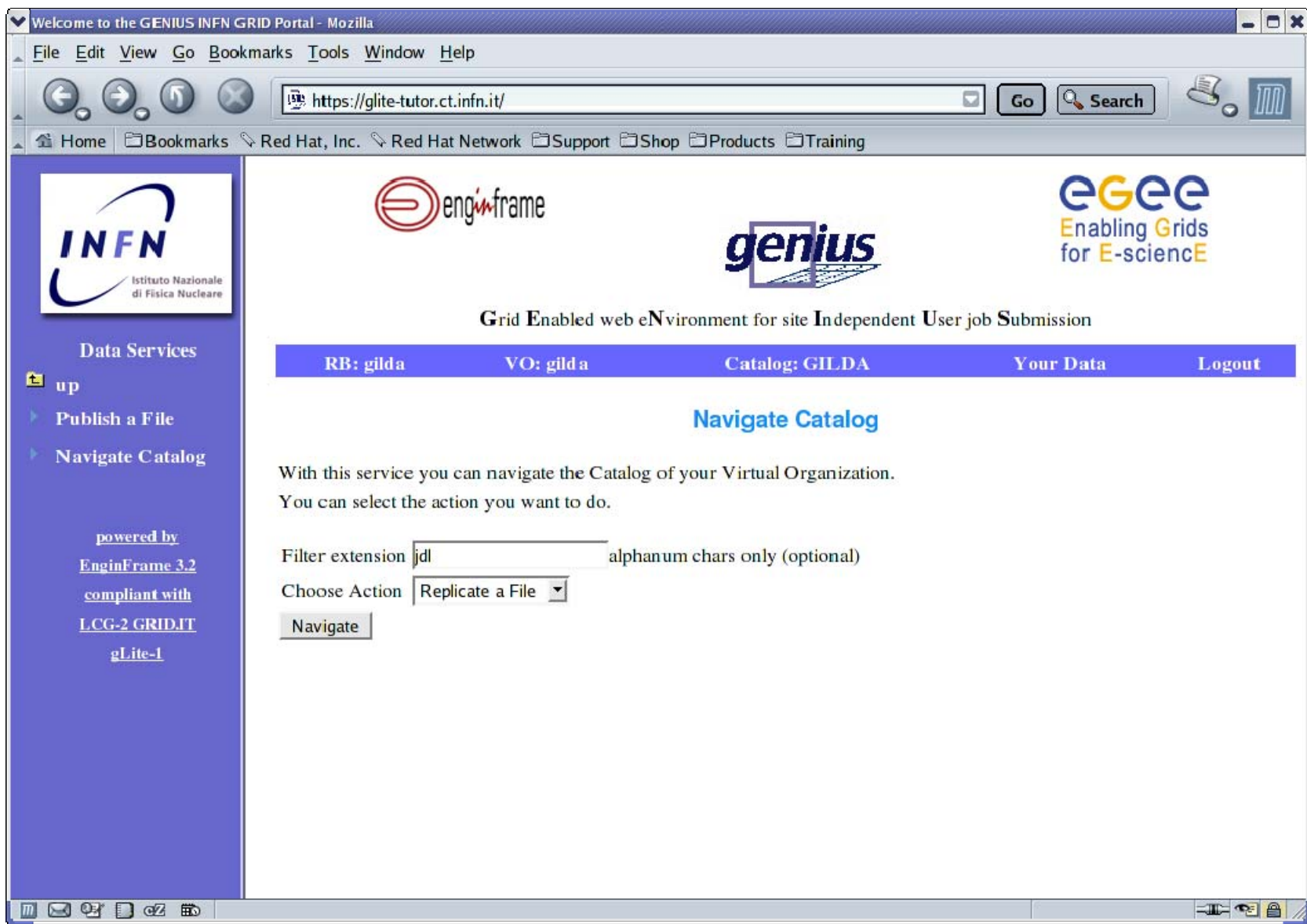
Data Services

up

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Navigate Catalog

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RB: gilda VO: gild a Catalog: GILDA Your Data Logout

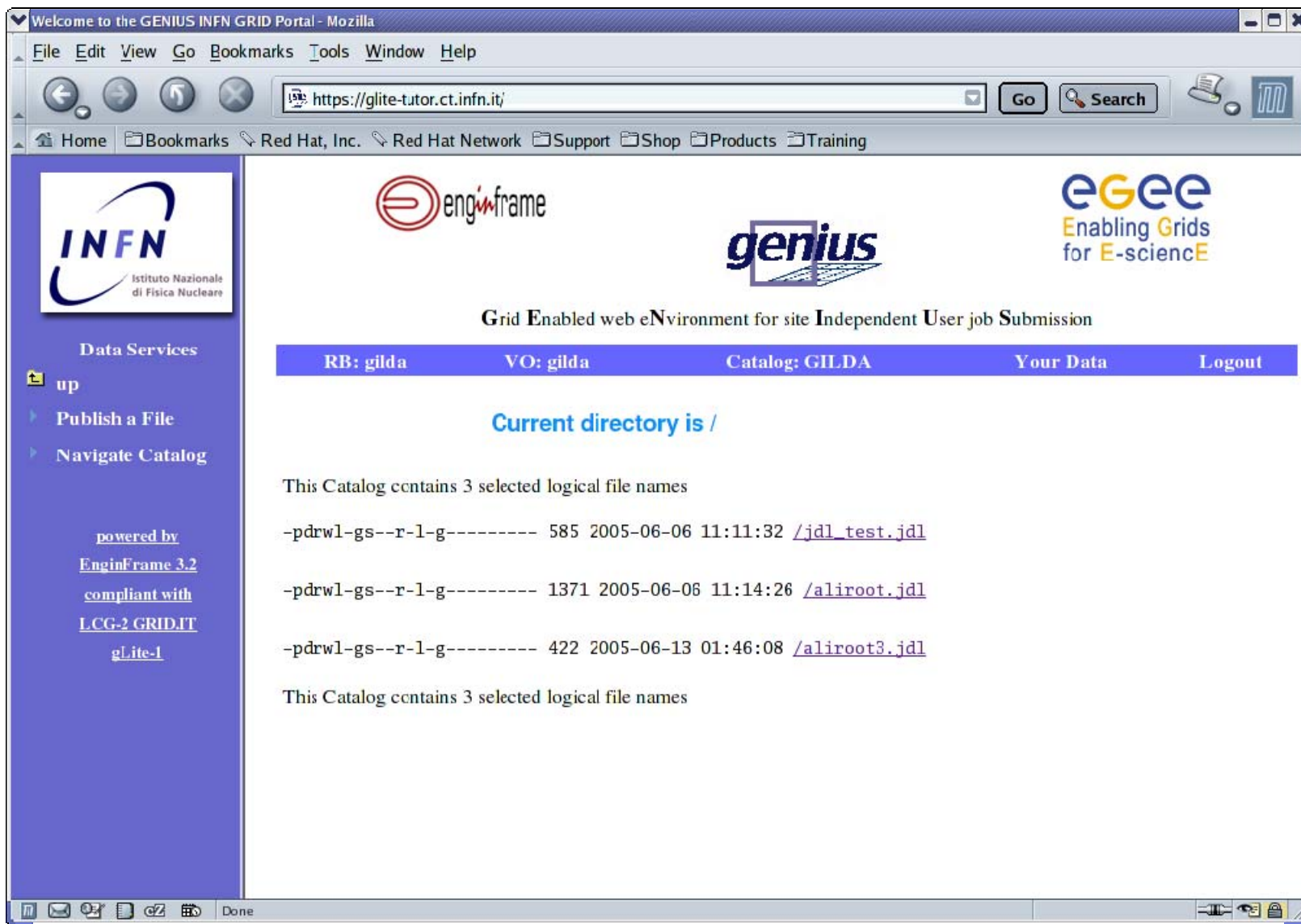
Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization.
You can select the action you want to do.

Filter extension alphanum chars only (optional)

Choose Action

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

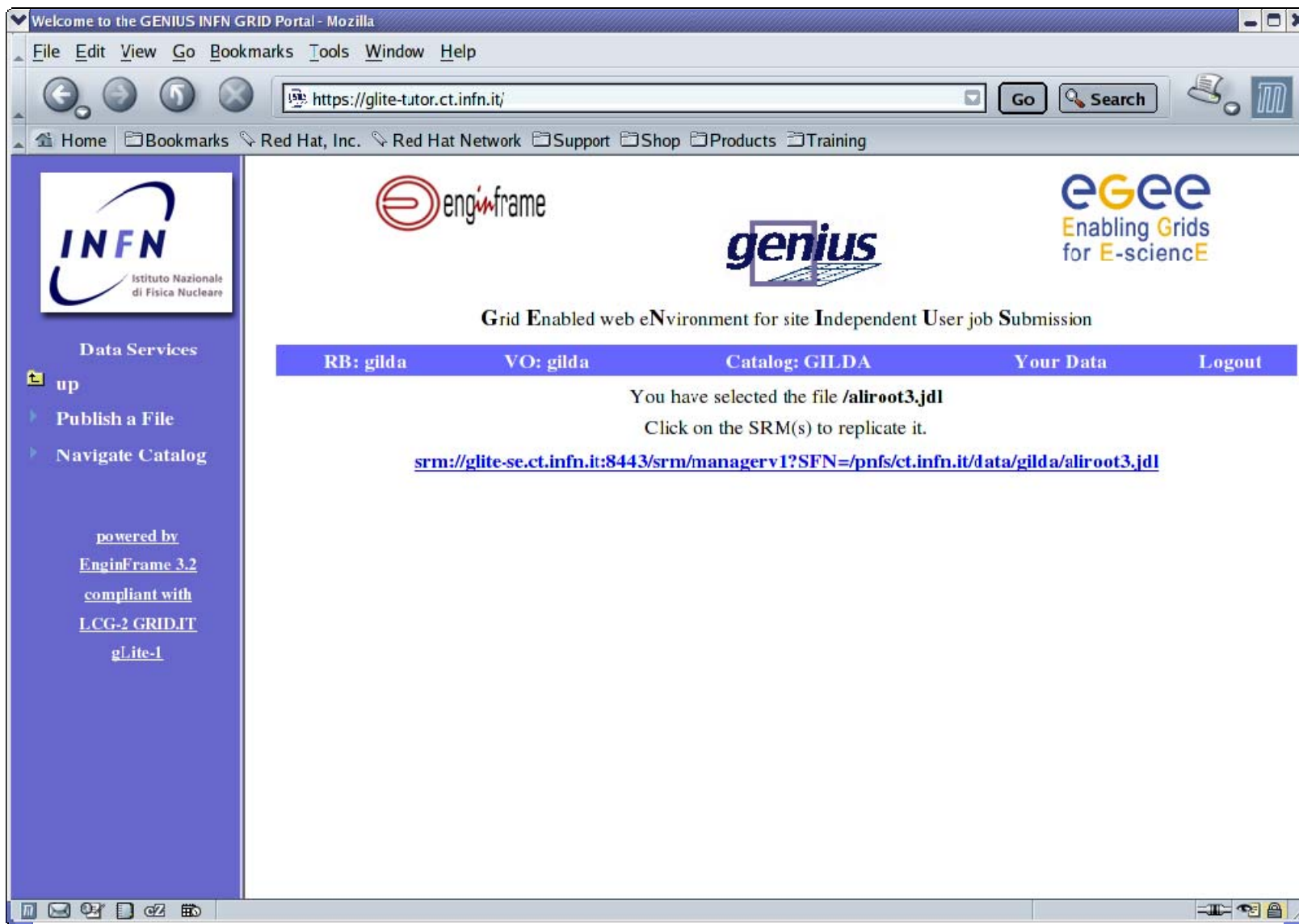
Current directory is /

This Catalog contains 3 selected logical file names

```
-pdrwl-gs--r-l-g----- 585 2005-06-06 11:11:32 /jdl_test.jdl
-pdrwl-gs--r-l-g----- 1371 2005-06-06 11:14:26 /aliroot.jdl
-pdrwl-gs--r-l-g----- 422 2005-06-13 01:46:08 /aliroot3.jdl
```

This Catalog contains 3 selected logical file names

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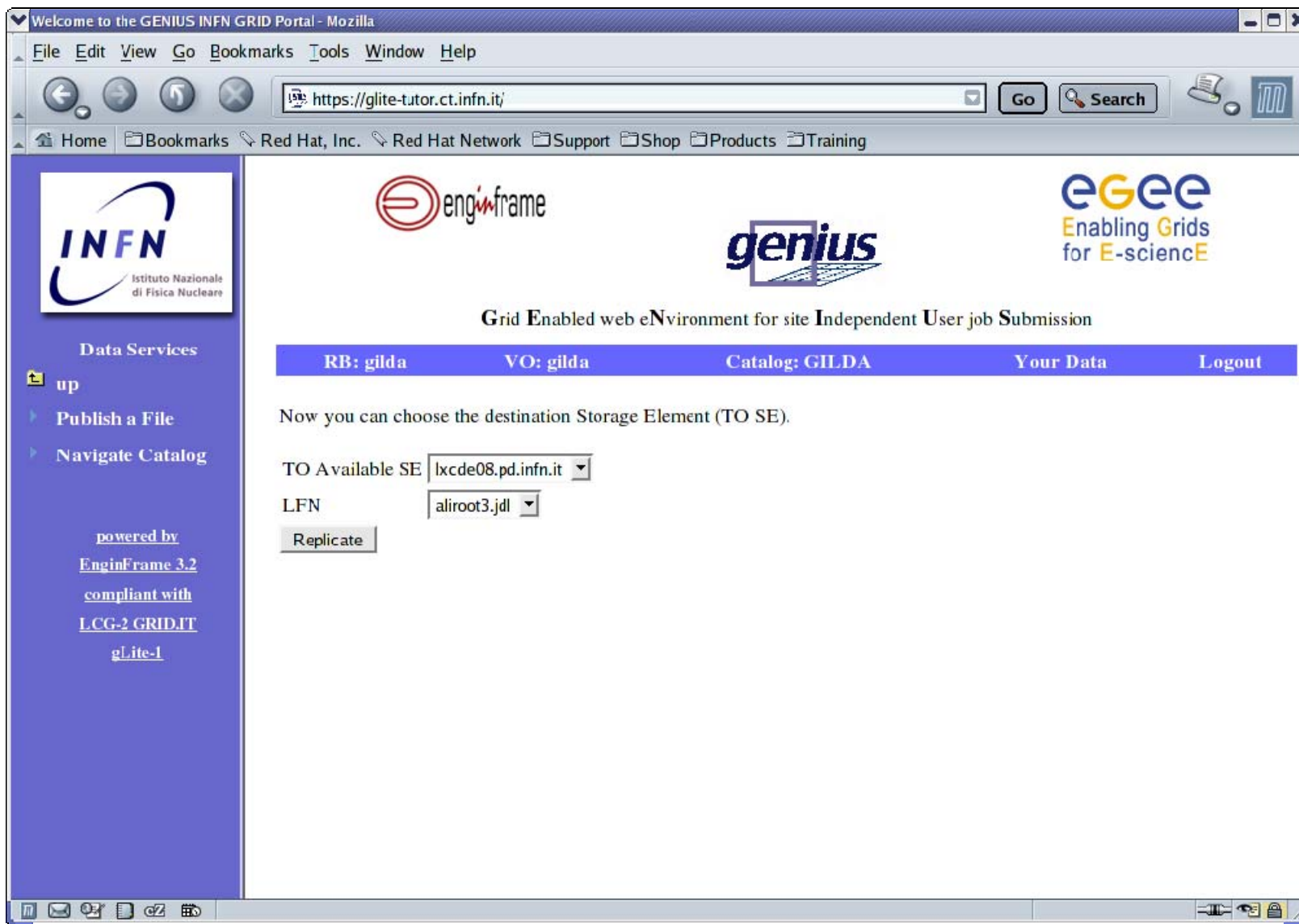
Grid Enabled web eNvironment for site Independent User job Submission

RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/aliroot3.jdl**
Click on the SRM(s) to replicate it.

<srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/aliroot3.jdl>

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compliant with
LCG-2 GRID.IT
gLite-1



The screenshot shows a Mozilla browser window titled "Welcome to the GENIUS INFN GRID Portal - Mozilla". The address bar contains "https://glite-tutor.ct.infn.it/". The browser's bookmark bar shows "Home", "Bookmarks", "Red Hat, Inc.", "Red Hat Network", "Support", "Shop", "Products", and "Training".

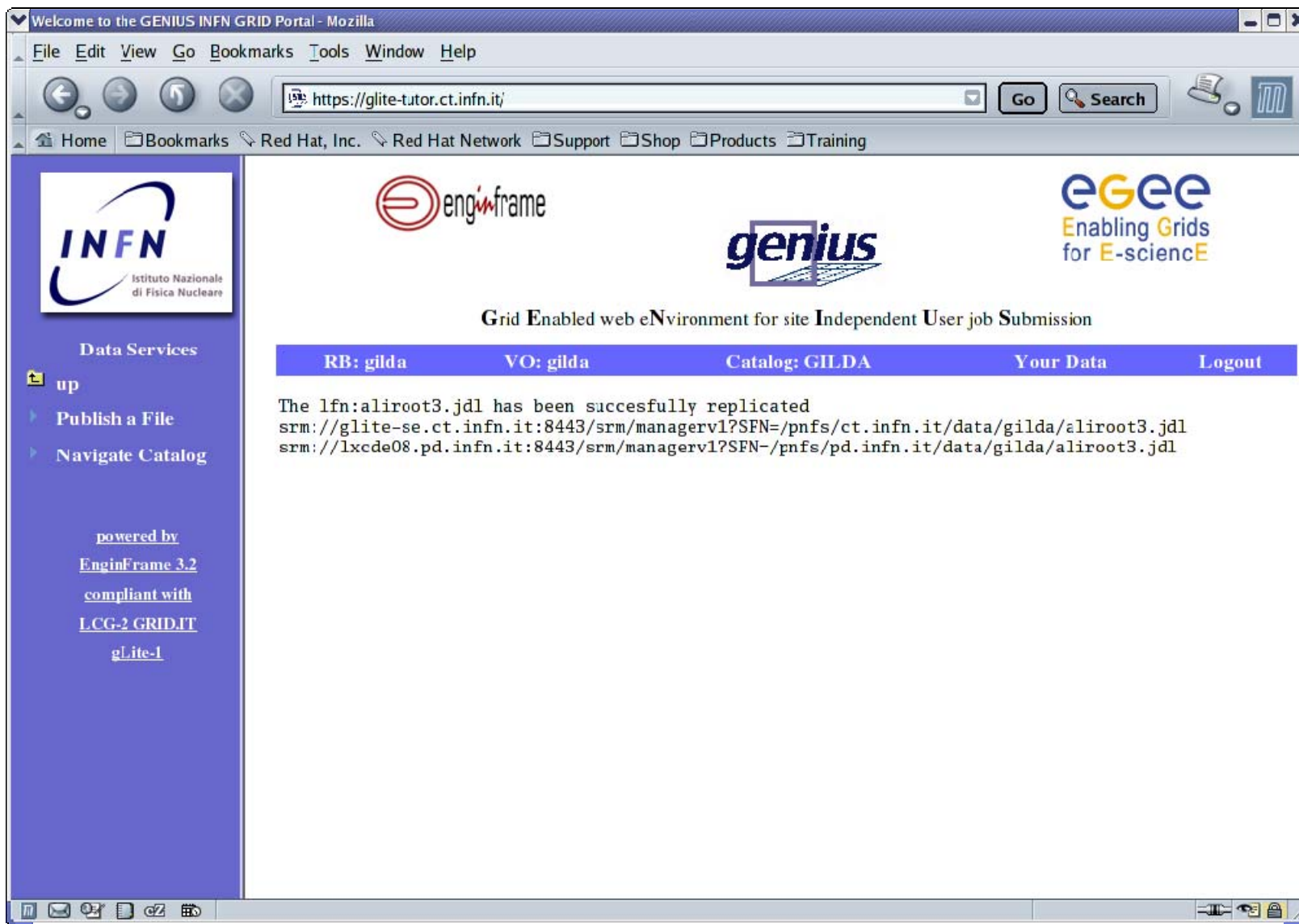
The main content area features several logos: "INFN Istituto Nazionale di Fisica Nucleare" on the left, "enginframe" in the center, "genius" in the center, and "eGEE Enabling Grids for E-science" on the right. Below the logos, the text reads "Grid Enabled web eNvironment for site Independent User job Submission".

A navigation bar contains the following links: "RB: gilda", "VO: gilda", "Catalog: GILDA", "Your Data", and "Logout".

The main content area contains the text: "Now you can choose the destination Storage Element (TO SE)."

Below this text are two dropdown menus: "TO Available SE" with the value "lxcde08.pd.infn.it" and "LFN" with the value "alroot3.jdl". A "Replicate" button is located below these menus.

The left sidebar is titled "Data Services" and contains the following links: "up", "Publish a File", and "Navigate Catalog". At the bottom of the sidebar, it says "powered by EnginFrame 3.2 compliant with LCG-2 GRID.IT gLite-1".



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File Edit View Go Bookmarks Tools Window Help

https://glite-tutor.ct.infn.it/ Go Search

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

The lfn:alroot3.jdl has been succesfully replicated
 srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/alroot3.jdl
 srm://lxcde08.pd.infn.it:8443/srm/managerv1?SFN=/pnfs/pd.infn.it/data/gilda/alroot3.jdl

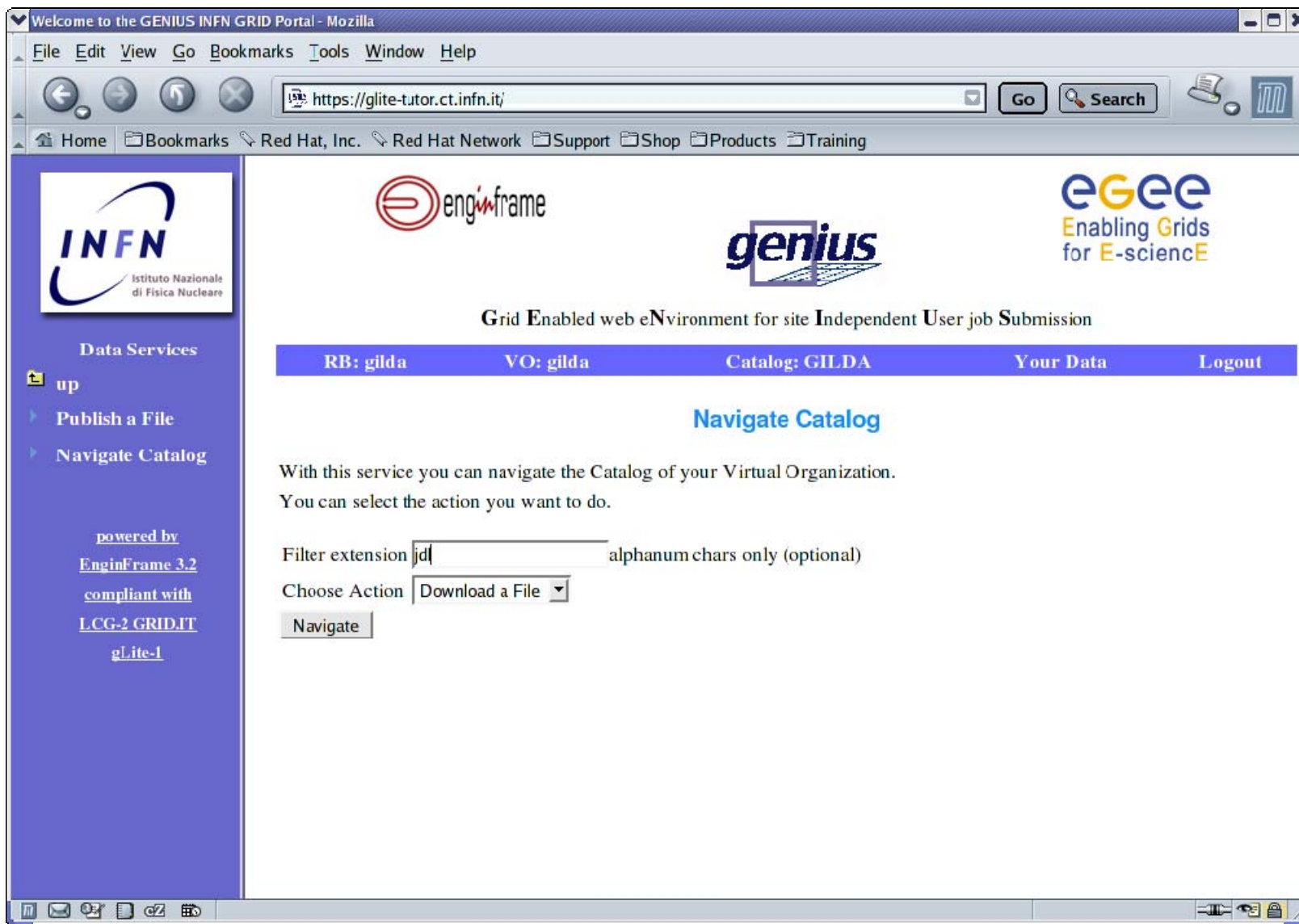
Data Services

up

Publish a File

Navigate Catalog

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization.
You can select the action you want to do.

Filter extension alphanum chars only (optional)

Choose Action

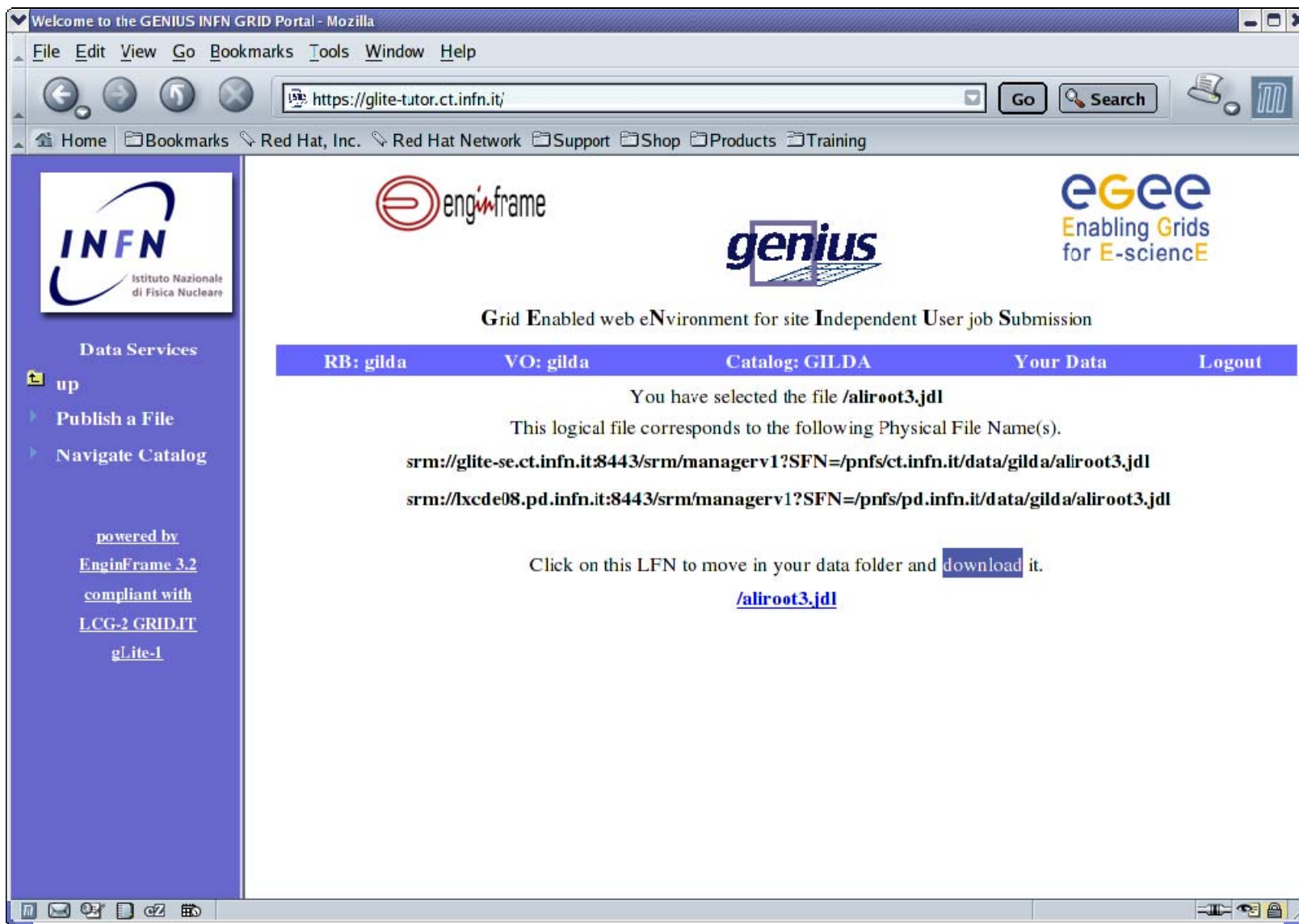
Data Services

up

Publish a File

Navigate Catalog

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/alroot3.jdl**

This logical file corresponds to the following Physical File Name(s).

srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/alroot3.jdl

srm://lxcde08.pd.infn.it:8443/srm/managerv1?SFN=/pnfs/pd.infn.it/data/gilda/alroot3.jdl

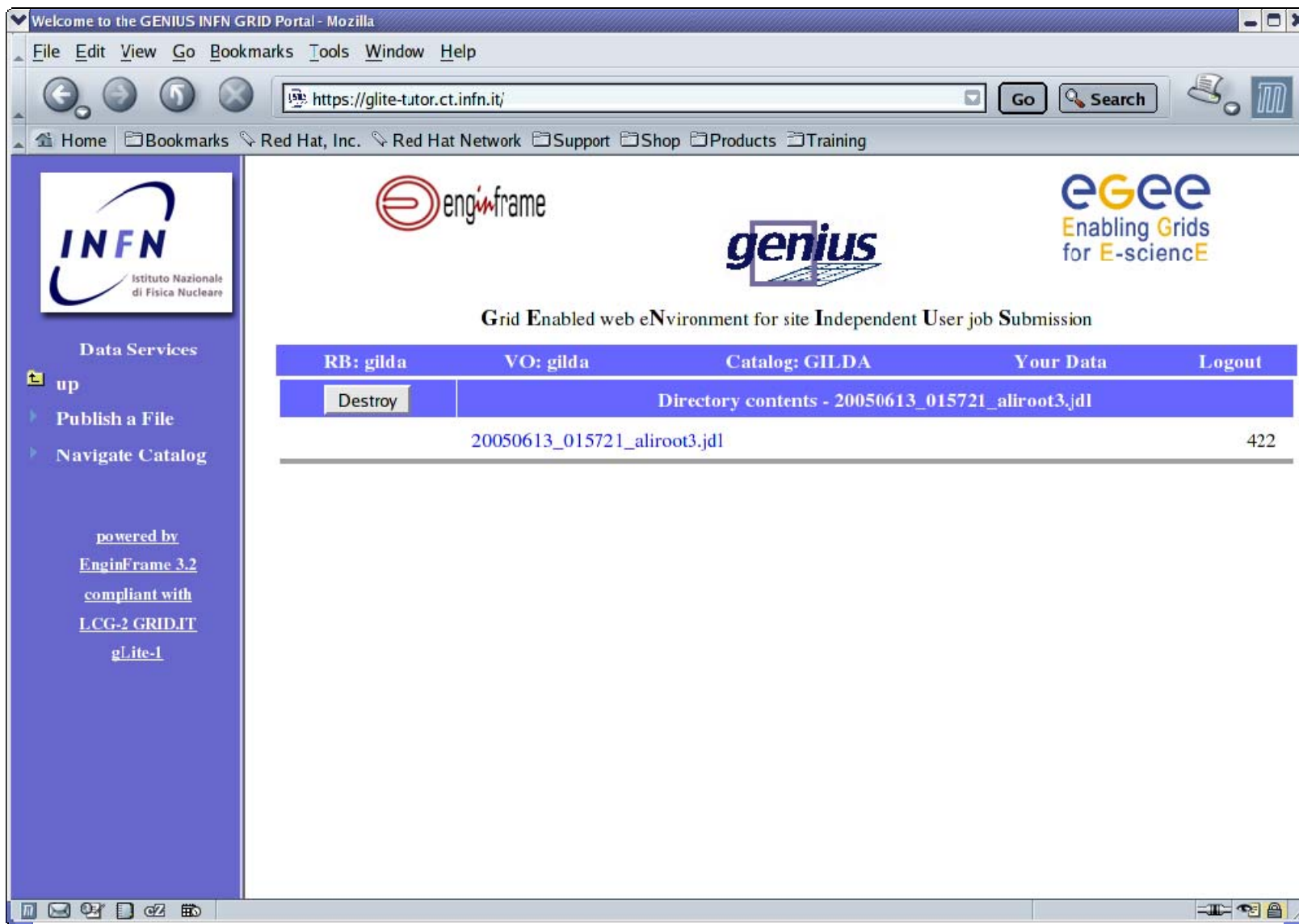
Click on this LFN to move in your data folder and **download** it.

[/alroot3.jdl](#)

Data Services

- up
- Publish a File
- Navigate Catalog

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[gLite-1](#)



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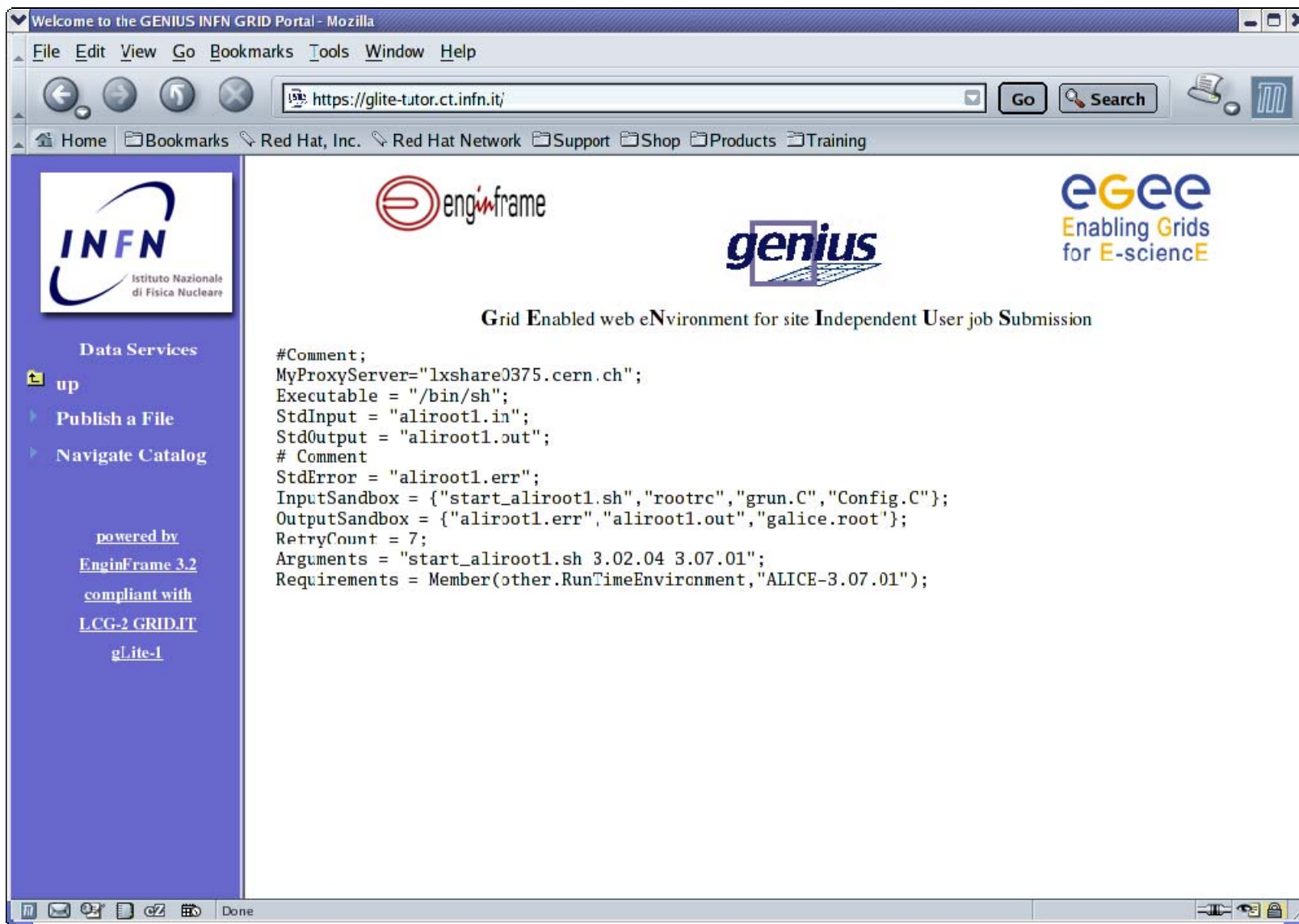
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RB: gilda	VO: gilda	Catalog: GILDA	Your Data	Logout
<input type="button" value="Destroy"/>	Directory contents - 20050613_015721_aliroot3.jdl			
	20050613_015721_aliroot3.jdl			422

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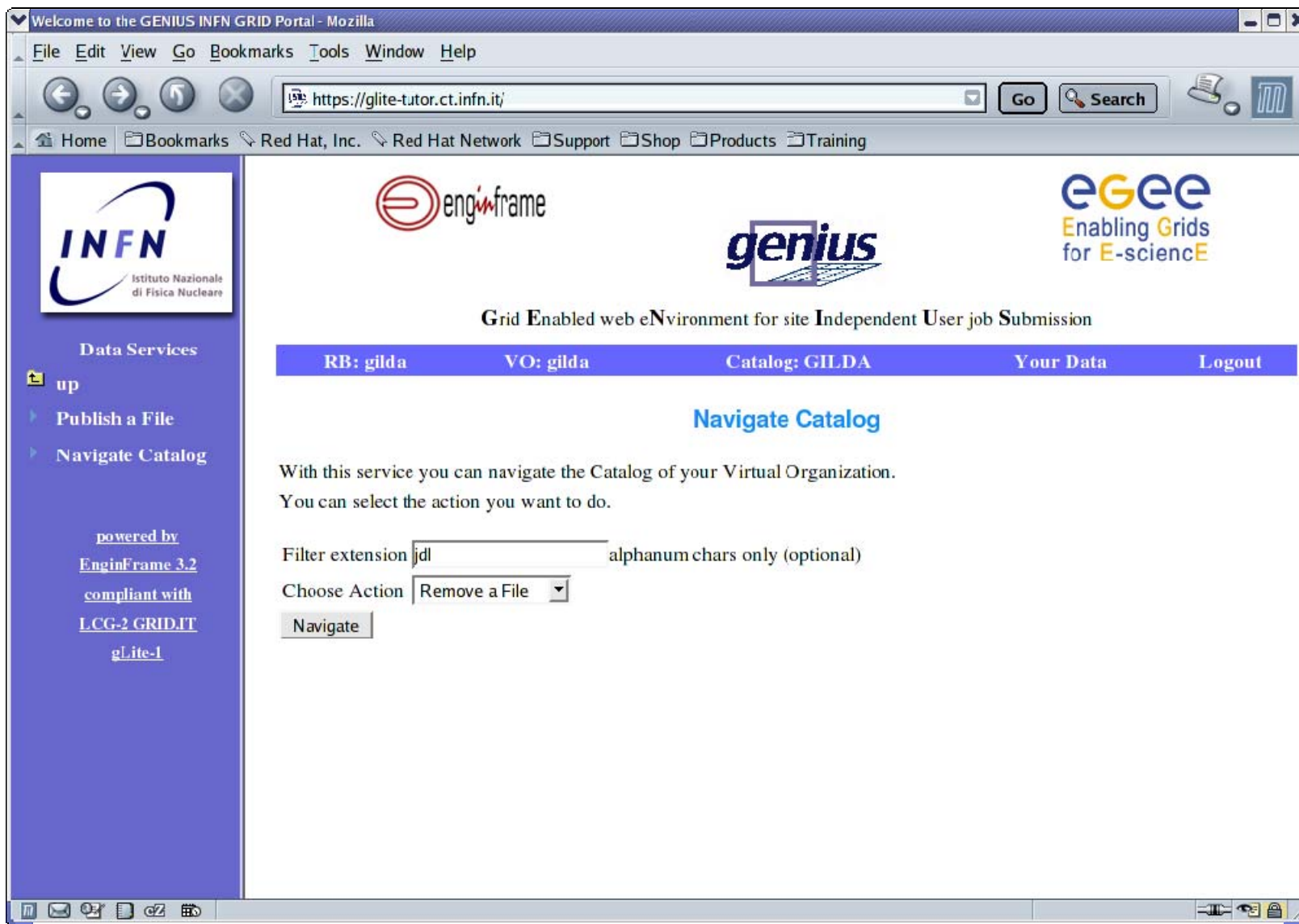
```
#Comment;
MyProxyServer="lxshare0375.cern.ch";
Executable = "/bin/sh";
StdInput = "aliroot1.in";
StdOutput = "aliroot1.out";
# Comment
StdError = "aliroot1.err";
InputSandbox = {"start_aliroot1.sh", "rootrc", "grun.C", "Config.C"};
OutputSandbox = {"aliroot1.err", "aliroot1.out", "galice.root"};
RetryCount = 7;
Arguments = "start_aliroot1.sh 3.02.04 3.07.01";
Requirements = Member(other.RunTimeEnvironment, "ALICE-3.07.01");
```

Data Services

- up
- Publish a File
- Navigate Catalog

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Done



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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

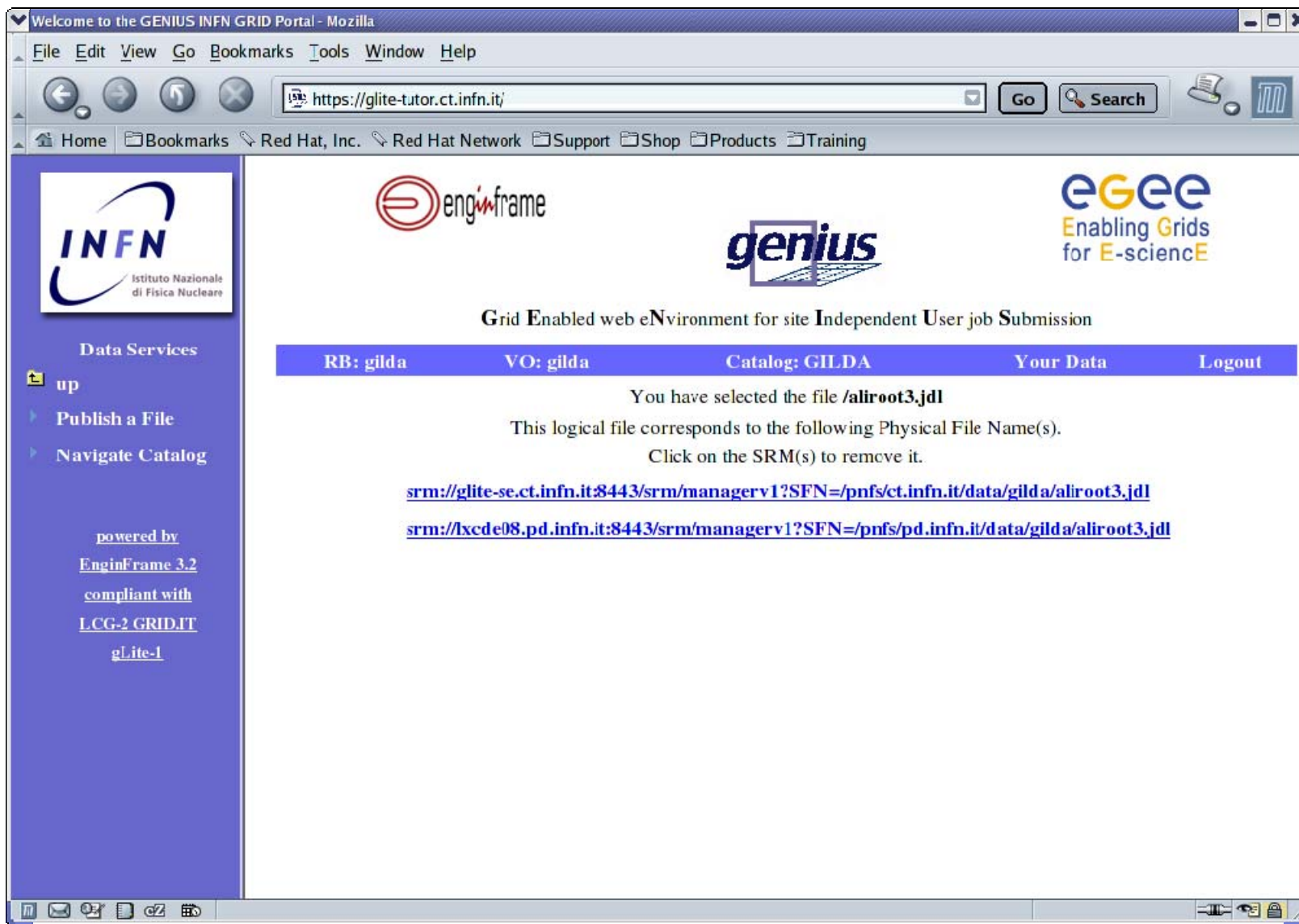
Navigate Catalog

With this service you can navigate the Catalog of your Virtual Organization.
You can select the action you want to do.

Filter extension alphanum chars only (optional)

Choose Action

powered by
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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have selected the file **/alroot3.jdl**

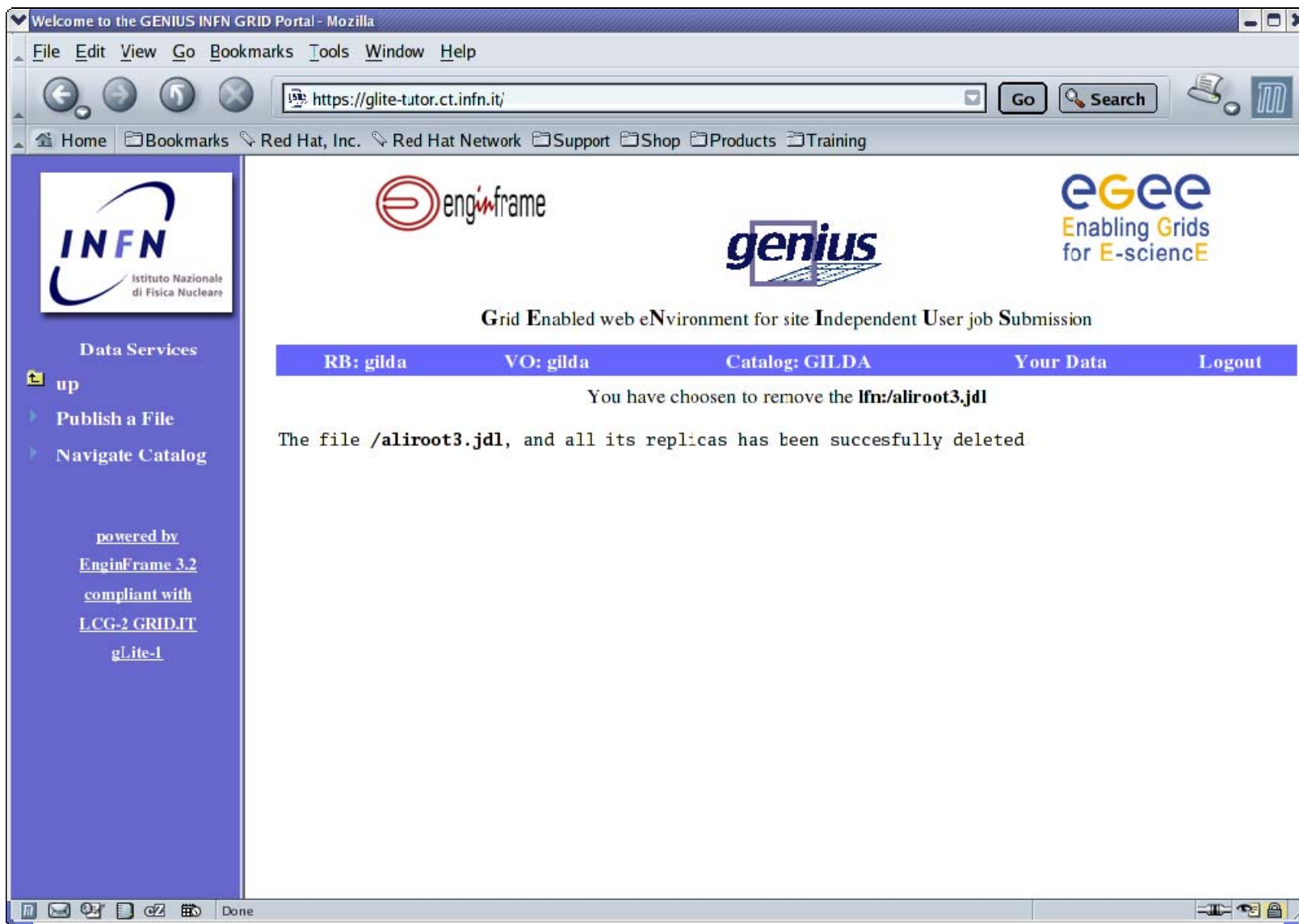
This logical file corresponds to the following Physical File Name(s).

Click on the SRM(s) to remove it.

<srm://glite-se.ct.infn.it:8443/srm/managerv1?SFN=/pnfs/ct.infn.it/data/gilda/alroot3.jdl>

<srm://xcde08.pd.infn.it:8443/srm/managerv1?SFN=/pnfs/pd.infn.it/data/gilda/alroot3.jdl>

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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

You have chosen to remove the **lfn:/alroot3.jdl**

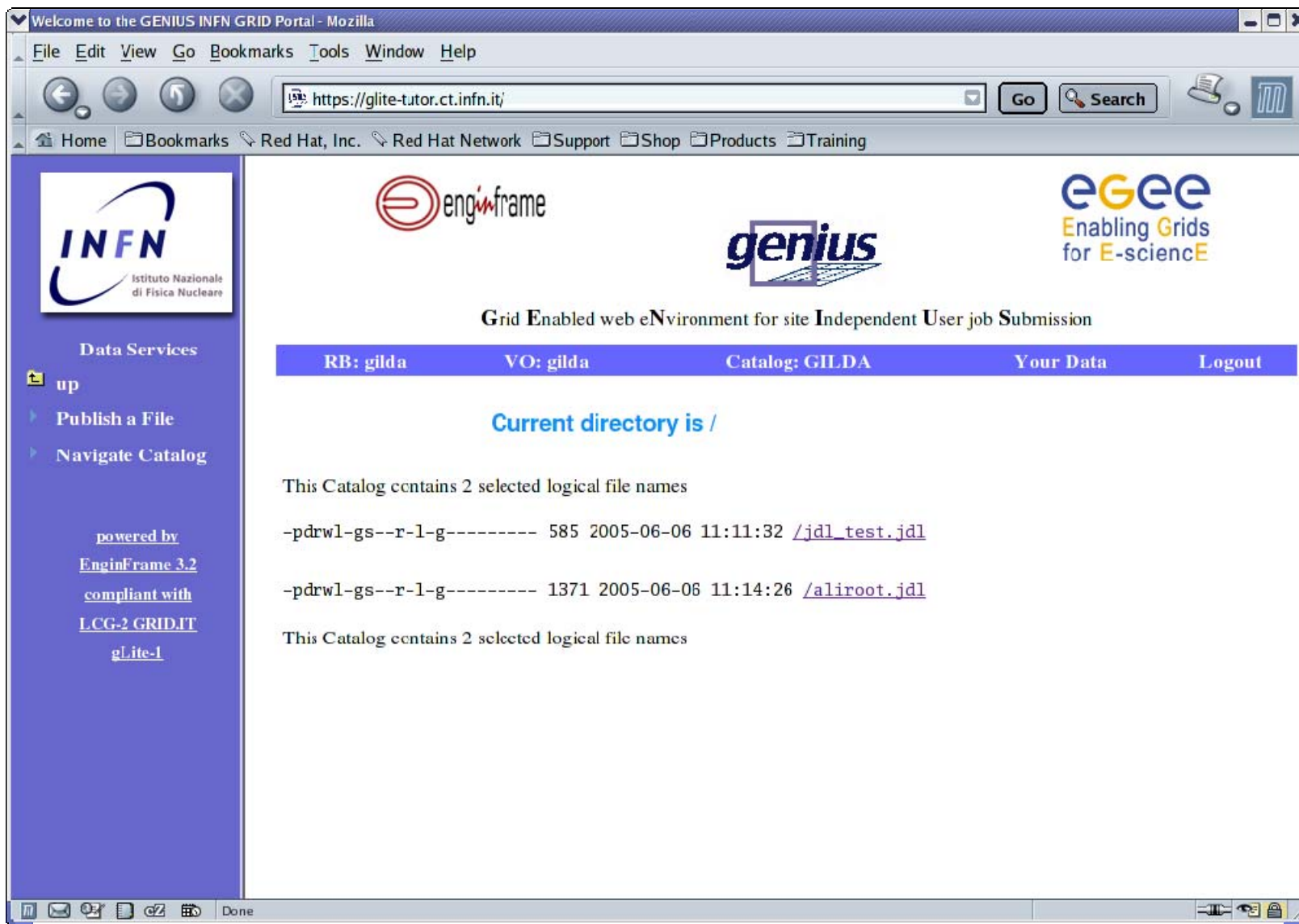
The file **/alroot3.jdl**, and all its replicas has been succesfully deleted

Data Services

- up
- Publish a File
- Navigate Catalog

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Done



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RB: gilda VO: gilda Catalog: GILDA Your Data Logout

Current directory is /

This Catalog contains 2 selected logical file names

-pdrwl-gs--r-l-g----- 585 2005-06-06 11:11:32 [/jdl_test.jdl](#)

-pdrwl-gs--r-l-g----- 1371 2005-06-06 11:14:26 [/aliroot.jdl](#)

This Catalog contains 2 selected logical file names

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Done

INFN - GridICE - Grid Monitoring Service - Mozilla

http://ed002.cnaf.infn.it:5000

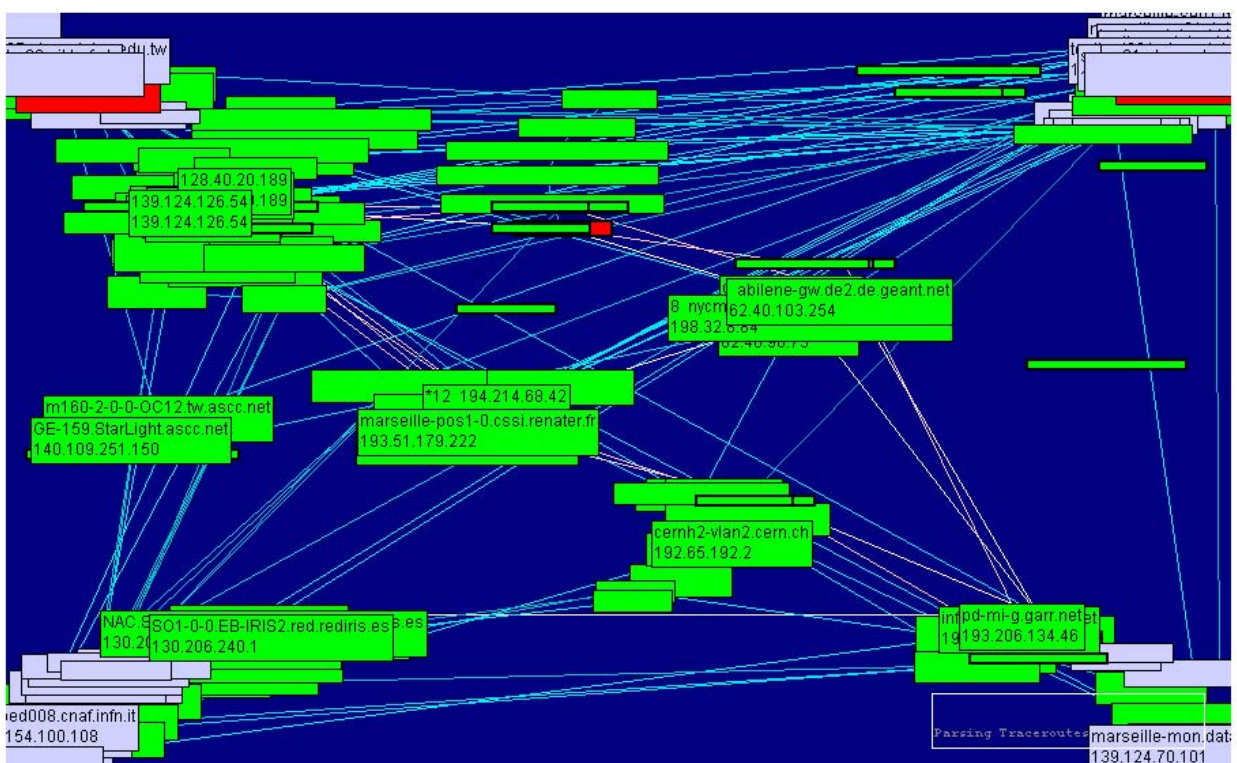
GridICE the eyes of the Grid

Site view VO view Geo view Grid

Select Site

Site	Slot#	SlotFree	SlotLoad
ba.infn.it	189	186	1%
bo.infn.it	30	30	0%
bo.ingv.it	24	24	0%
ca.infn.it	15	12	20%
cnaf.infn.it	-	-	-
cr.cnaf.infn.it	3162	2137	32%
ct.astro.it	0	0	-
ct.infn.it	336	300	10%
fe.infn.it	48	18	62%
le.infn.it	0	0	-
lnl.infn.it	144	115	20%
mi.infn.it	126	126	0%
na.infn.it	72	72	0%
oat.ts.astro.it	6	6	0%
pd.infn.it	198	198	0%
pg.infn.it	12	6	5%
pi.infn.it	21	15	28%
pv.infn.it	18	18	0%
roma1.infn.it	90	87	3%
to.infn.it	104	24	76%
ts.infn.it	6	6	0%
TOTAL	4601	3380	17%

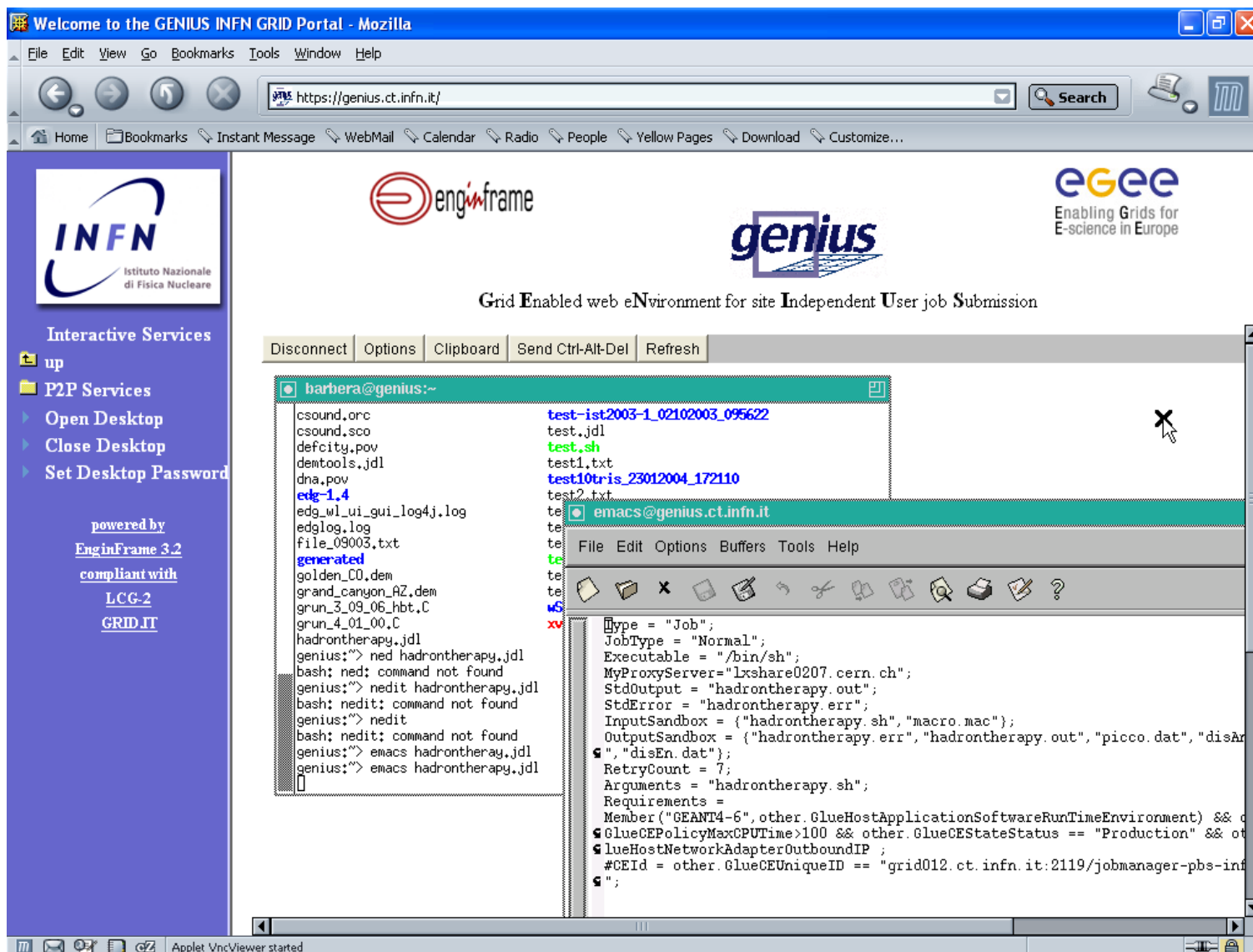
Network Topology (trace.txt.datagrid.pcp)



Abilities to monitor:

- Site view
- VO view
- Geo view
- Grid

Applet NetBird started







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File Edit View Go Bookmarks Tools Window Help

https://genius.ct.infn.it/ Search

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

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Disconnect Options Clipboard Send Ctrl-Alt-Del Refresh

barbera@genius:~

```

csound.orc
csound.sco
defcity.pov
demptools.jdl
dna.pov
edg-1.4
edg_wl_ui_gui_log4j.log
edglog.log
file_09003.txt
generated
golden_C0.dem
grand_canyon_AZ.dem
grun_3_09_06_hbt.C
grun_4_01_00.C
hadrontherapy.jdl
genius:> ned hadrontherapy.jdl
bash: ned: command not found
genius:> nedit hadrontherapy.jdl
bash: nedit: command not found
genius:> nedit
bash: nedit: command not found
genius:> emacs hadrontherapy.jdl
genius:> emacs hadrontherapy.jdl

```

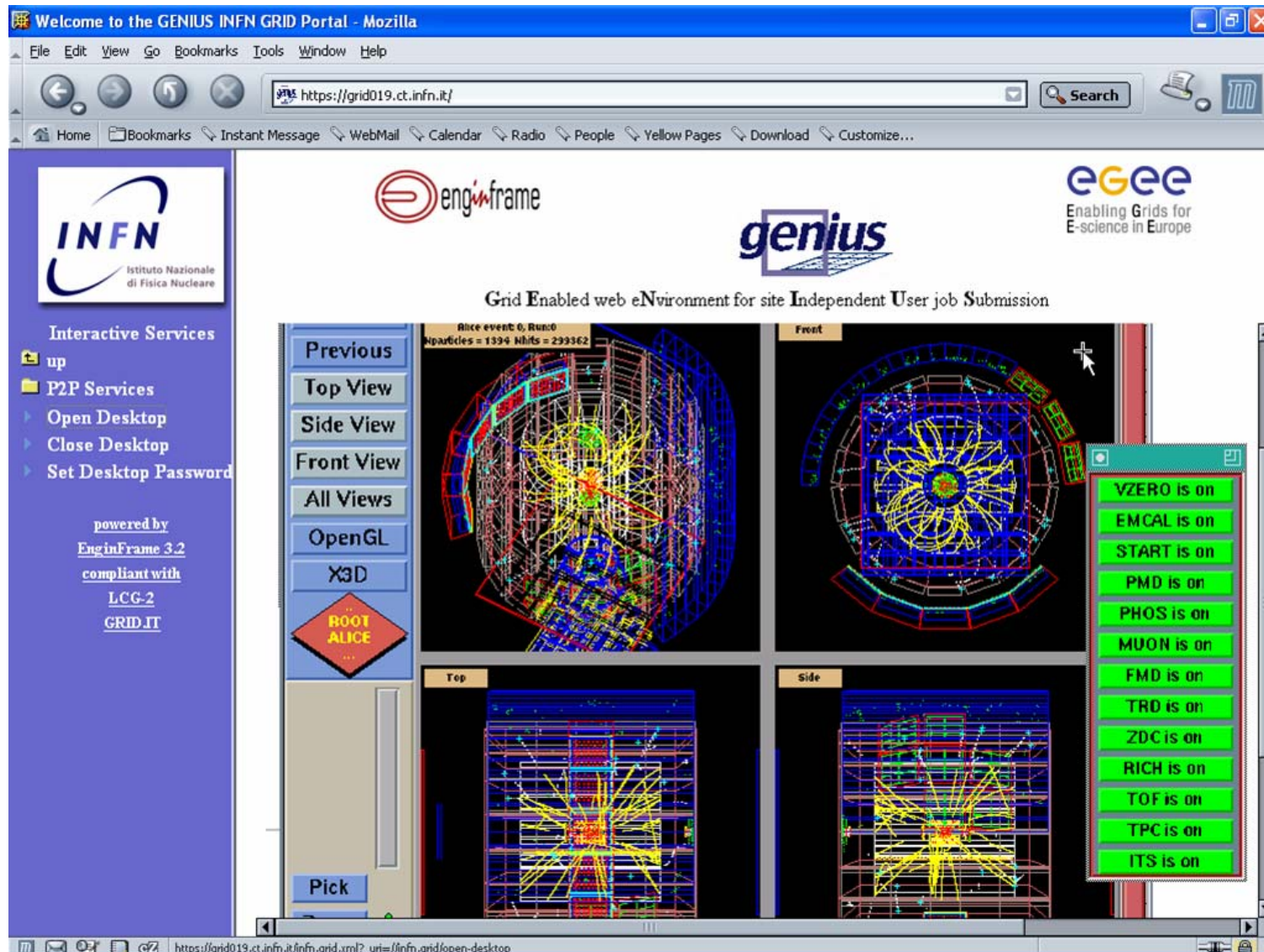
emacs@genius.ct.infn.it

```

File Edit Options Buffers Tools Help
Type = "Job";
JobType = "Normal";
Executable = "/bin/sh";
MyProxyServer="lxshare0207.cern.ch";
StdOutput = "hadrontherapy.out";
StdError = "hadrontherapy.err";
InputSandbox = {"hadrontherapy.sh", "macro.mac"};
OutputSandbox = {"hadrontherapy.err", "hadrontherapy.out", "picco.dat", "disAr
", "disEn.dat"};
RetryCount = 7;
Arguments = "hadrontherapy.sh";
Requirements =
Member("GEANT4-6", other.GlueHostApplicationSoftwareRunTimeEnvironment) && o
GlueCEPolicyMaxCPUTime>100 && other.GlueCEStateStatus == "Production" && ot
GlueHostNetworkAdapterOutboundIP ;
#CEId = other.GlueCEUniqueID == "grid012.ct.infn.it:2119/jobmanager-pbs-inf
";

```

Applet VncViewer started



- To install GENIUS on an User Interface machine you need a server certificate (in order to sign https connection) and a EnginFrame license
- The eadmin user must be present in the system
- GENIUS is downloaded from a SSH CVS server
- GENIUS should be installed under **/opt/genius**

- **Install UI Server certificate under**
`/opt/genius/apache/conf`
- **GENIUS installs with** `/opt/genius/genius_install.sh` **(just one command!)**
- **GENIUS starts/stops with the command**
`/etc/rc.d/init.d/genius start|stop`

- **Configuration files**
 - **/opt/genius/etc**
- **XML files**
 - **/opt/genius/apache/htdocs**
- **Action procedures (shell scripts, etc.)**
 - **/opt/genius/ef/plugins/infngrid/bin**

- **Q: I want to use GENIUS. Do I have to pay for it ?**
- **A: No. GENIUS is “open source” and the underlying portal framework EnginFrame is free for education and research communities.**

- **Q: I want to use GENIUS. Do I need any software running on my laptop ?**
- **A: No client software needs to be installed apart from the web browser. GENIUS can really be accessed from everywhere.**

- **Q: Do I have to be afraid about cached password sent over the web ?**
- **A: Access passwords are securely “streamed” only when needed and then destroyed. Only temporary sessions are possible.**

- **Q: Can new authentication methods implemented into GENIUS ?**
- **A: Of course. Kerberos V is a good example. EnginFrame is compliant with Kerberos authentication and GENIUS with AFS.**

- **Q: I want to add a new VO to GENIUS and customize new services for that VO. How can I do that ?**
- **A: A new VO can be added to GENIUS in just minutes. New VO specific services can be added just modifying only two files: an XML file and a shell script.**

- **Q: Can I use GENIUS to interface other m/w's ?**
- **A: Yes. Although GENIUS is currently based on the LCG/gLite middleware, it can be very easily interfaced to others.**

- **Q: How can I start downloading/using GENIUS ?**
- **A: Go to the reference site <https://genius.ct.infn.it>, click on "GENIUS CVS available" and follow the instructions.**