



Enabling Grids for E-scienceE

## GILDA Grid Demonstrator

*Олешко Сергей*

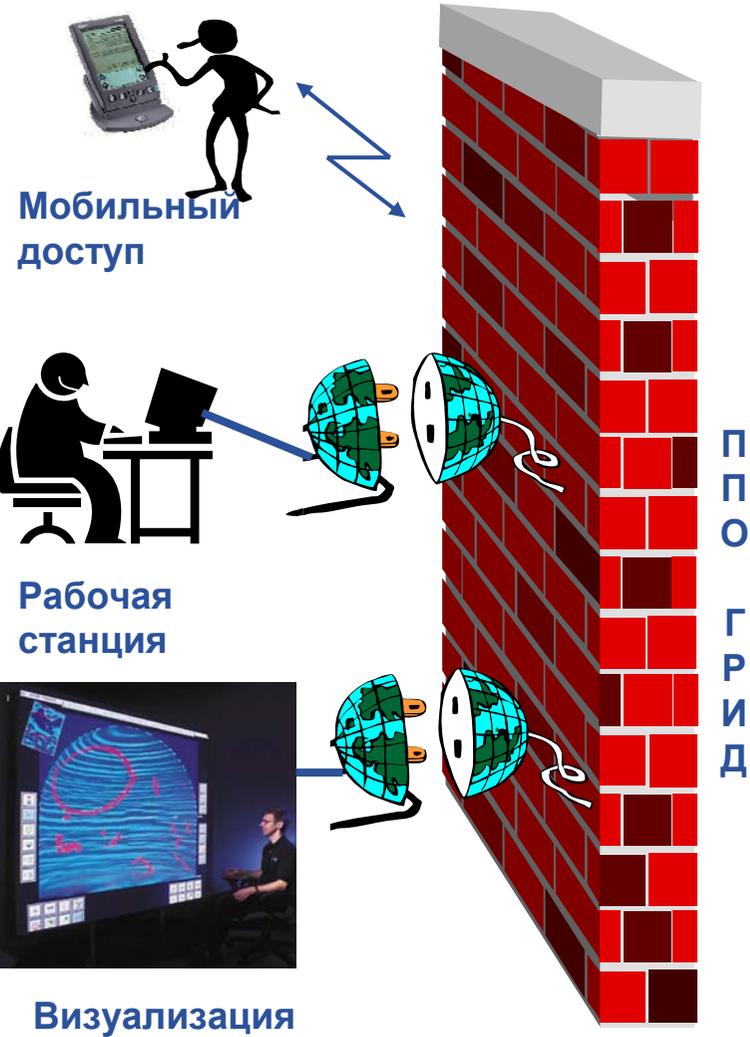
*Петербургский институт ядерной физики РАН*

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



Information Society



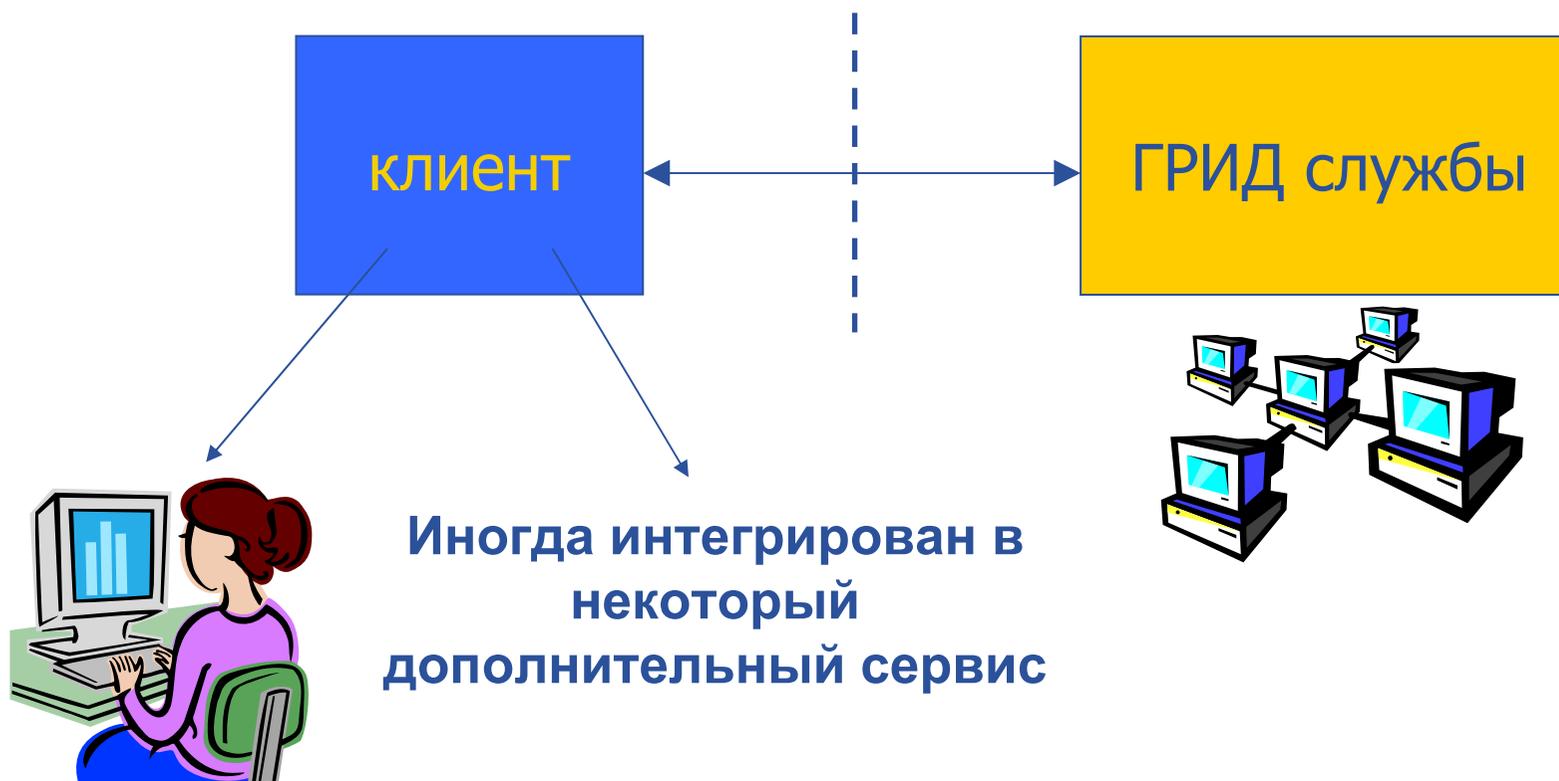


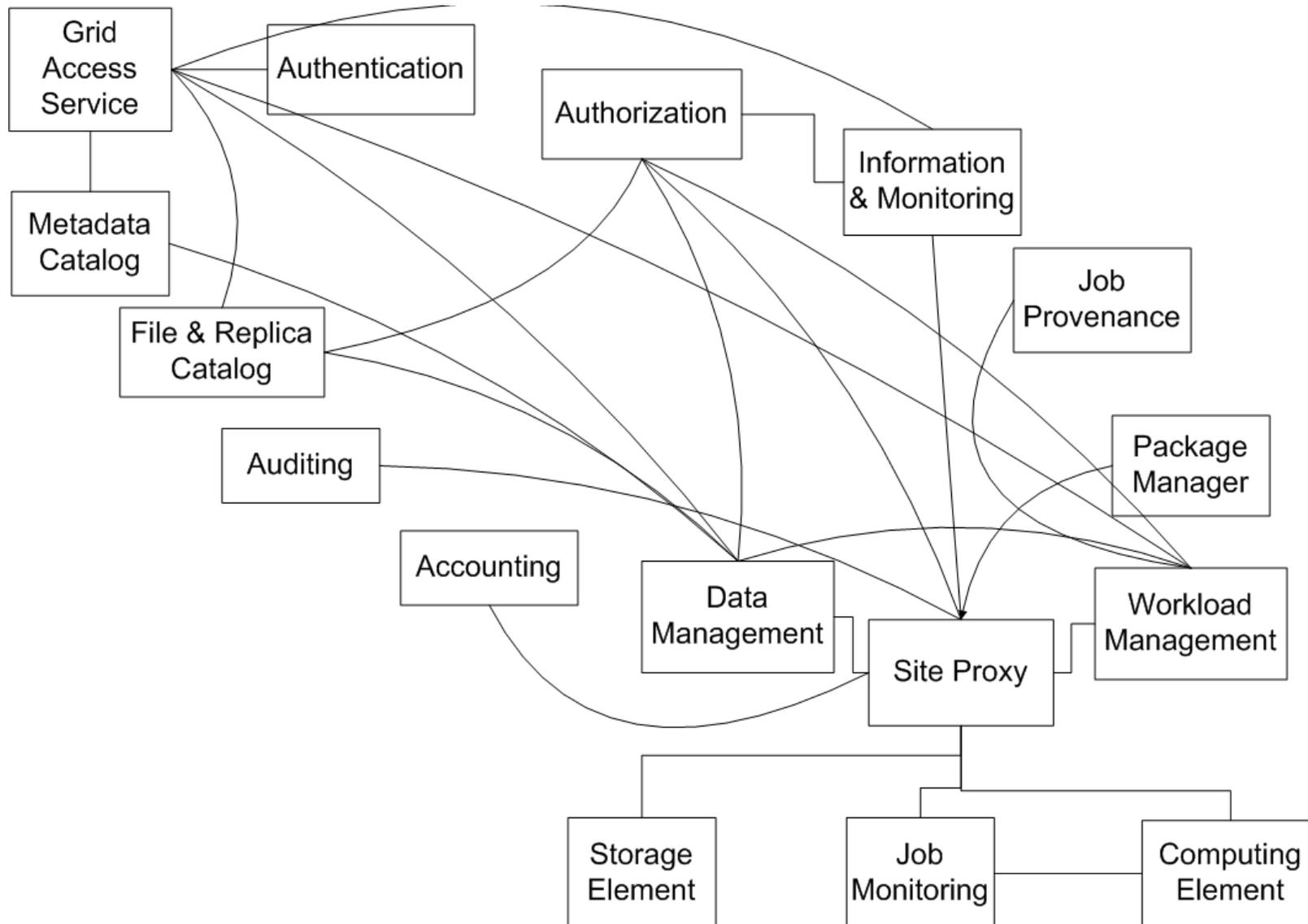
**Суперкомпьютеры, кластеры**

**Хранилища данных, эксперименты, датчики**

**Интернет, сети**

- ППО ГРИД – это множество программных ГРИД служб
- ГРИД службы более-менее стандартизованы, т.е. имеют стандартизованные интерфейсы и используют стандартные технологии
- Они могут быть доступны множеству клиентов





- **ГРИД службы используют шифрование:**
  - Вы должны получить сертификат от центра сертификации
  - Вы должны быть зарегистрированы в Виртуальной Организации (ГРИД службы доступны только для членов ВО.)
  - Вы должны сгенерировать временный сертификат
- **ГРИД клиенты – это достаточно низкоуровневые программные средства**
  - Интерфейс командной строки
  - Платформозависимость (как правило Linux)
  - Много параметров



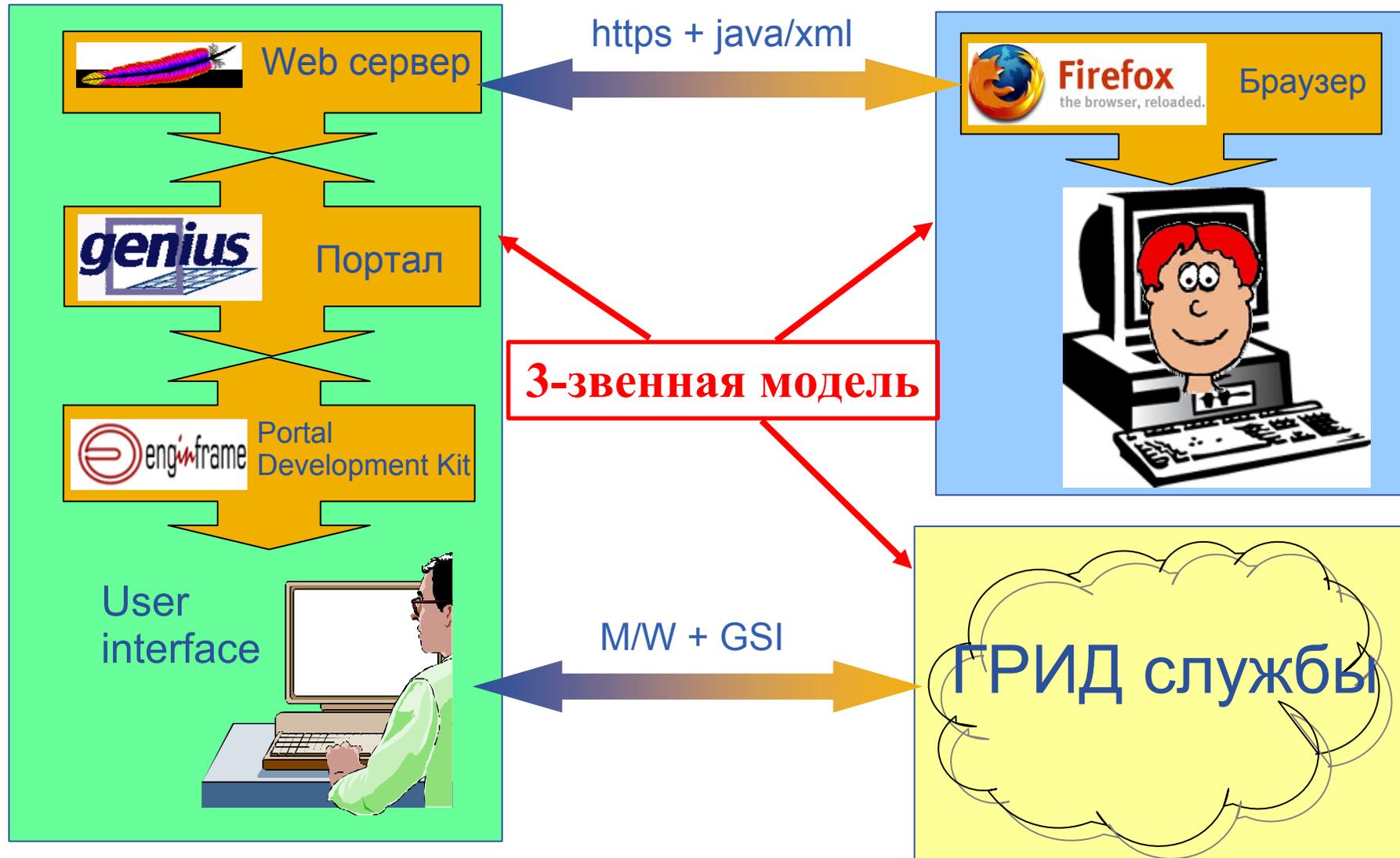
- Он может быть доступен отовсюду и при помощи “чего угодно” (ПК, ноутбук, КПК, мобильный телефон).
- Он может использовать один и тот же пользовательский интерфейс для доступа к различным службам.
- Он должен обеспечивать “избыточную безопасность” на всех уровнях: 1) безопасность передачи данных по web, 2) безопасность пользовательских параметров доступа, 3) безопасность пользовательской аутентификации, 4) безопасность на уровне виртуальной организации.
- ГРИД службы должны быть доступны “по одному нажатию на кнопку мышки”.
- Пользовательский интерфейс должен быть понятен и дружелюбен к пользователю.

## Grid Enabled web Environment for site Independent User job Submission

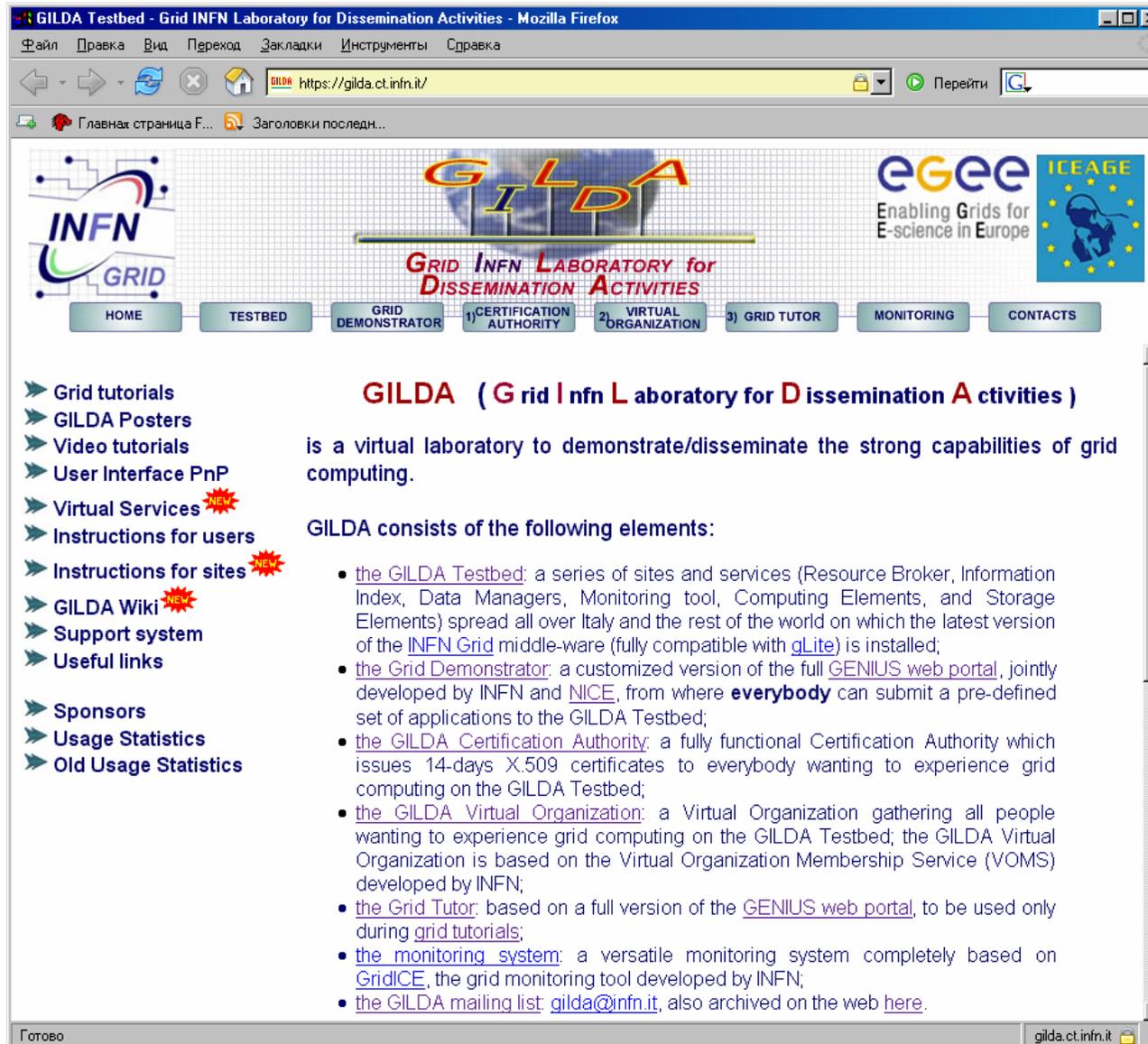


Существует несколько версий портала:

- **GENIUS – полная версия:**  
<https://genius.ct.infn.it>
- **Grid Demonstrator – открытая “для всех” 24/7 версия:**  
<https://glite-demo.ct.infn.it/>
- **Grid Tutor – версия, адаптированная для обучения и тренинга:**  
<https://glite-tutor.ct.infn.it/>



- Проблема: Web сервер, а значит и весь портал запускается с наимизшим уровнем привилегий. Каким же образом он сможет запускать задания для пользователя?
- Наилучший выход – расширение системы делегирования GSI (Grid Security Infrastructure) таким образом, чтобы пользователь мог делегировать права на запуск заданий порталу.
- Сервис MyProху обеспечивает такое расширение следующим образом:
  - временно сохраняет пользовательские имя/пароль.
  - запускает прокси от имени пользователя.
  - поддерживает отдельный пароль для портала.



**GILDA (Grid INFN Laboratory for Dissemination Activities)**

is a virtual laboratory to demonstrate/disseminate the strong capabilities of grid computing.

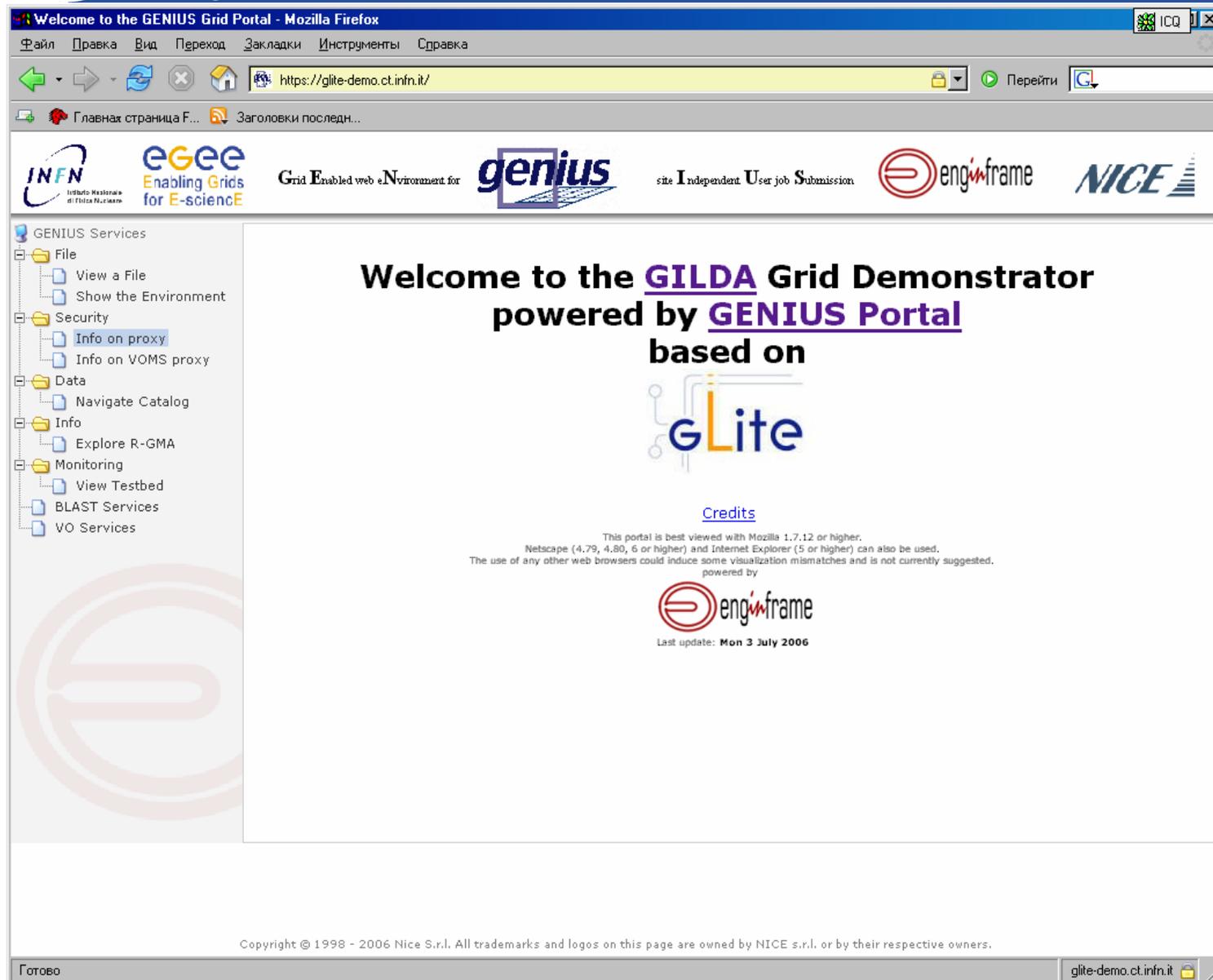
GILDA consists of the following elements:

- the [GILDA Testbed](#): a series of sites and services (Resource Broker, Information Index, Data Managers, Monitoring tool, Computing Elements, and Storage Elements) spread all over Italy and the rest of the world on which the latest version of the [INFN Grid](#) middle-ware (fully compatible with [gLite](#)) is installed;
- the [Grid Demonstrator](#): a customized version of the full [GENIUS web portal](#), jointly developed by INFN and [NICE](#), from where **everybody** can submit a pre-defined set of applications to the GILDA Testbed;
- the [GILDA Certification Authority](#): a fully functional Certification Authority which issues 14-days X.509 certificates to everybody wanting to experience grid computing on the GILDA Testbed;
- the [GILDA Virtual Organization](#): a Virtual Organization gathering all people wanting to experience grid computing on the GILDA Testbed; the GILDA Virtual Organization is based on the Virtual Organization Membership Service (VOMS) developed by INFN;
- the [Grid Tutor](#): based on a full version of the [GENIUS web portal](#), to be used only during [grid tutorials](#);
- the [monitoring system](#): a versatile monitoring system completely based on [GridICE](#), the grid monitoring tool developed by INFN;
- the GILDA mailing list: [gilda@infn.it](mailto:gilda@infn.it), also archived on the web [here](#).

- **GILDA Testbed** - набор сайтов с установленным ППО LCG/gLite.
- **Grid Demonstrator** - веб-интерфейс GENIUS, позволяющий работать с определенным набором приложений.
- **GILDA CA** - центр сертификации, выдающий 14-дневные сертификаты для работы с GILDA.
- **GILDA VO** - виртуальная организация, объединяющая всех пользователей GILDA.
- **Grid Tutor** - веб-интерфейс GENIUS, используемый для демонстрации возможностей технологии Грид.
- **Monitoring System** - система мониторинга для GILDA Testbed.



20 сайтов на 3 континентах !



The screenshot shows a Mozilla Firefox browser window displaying the GILDA Grid Demonstrator website. The browser's address bar shows the URL <https://glite-demo.ct.infn.it/>. The website header features logos for INFN, EGEE (Enabling Grids for E-science), genius, site Independent User job Submission, enginframe, and NICE. A left sidebar lists 'GENIUS Services' including File, Security, Data, Info, and Monitoring. The main content area displays a welcome message: 'Welcome to the **GILDA** Grid Demonstrator powered by **GENIUS Portal** based on **GLite**'. Below this, there is a 'Credits' link and a note about browser compatibility: 'This portal is best viewed with Mozilla 1.7.12 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.' The enginframe logo and 'Last update: Mon 3 July 2006' are also visible. The footer contains the copyright notice: 'Copyright © 1998 - 2006 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners.'

+

- Не требуется сертификат
- Доступ через браузер
- Предопределённые имя/пароль (не требуется предварительная регистрация)

-

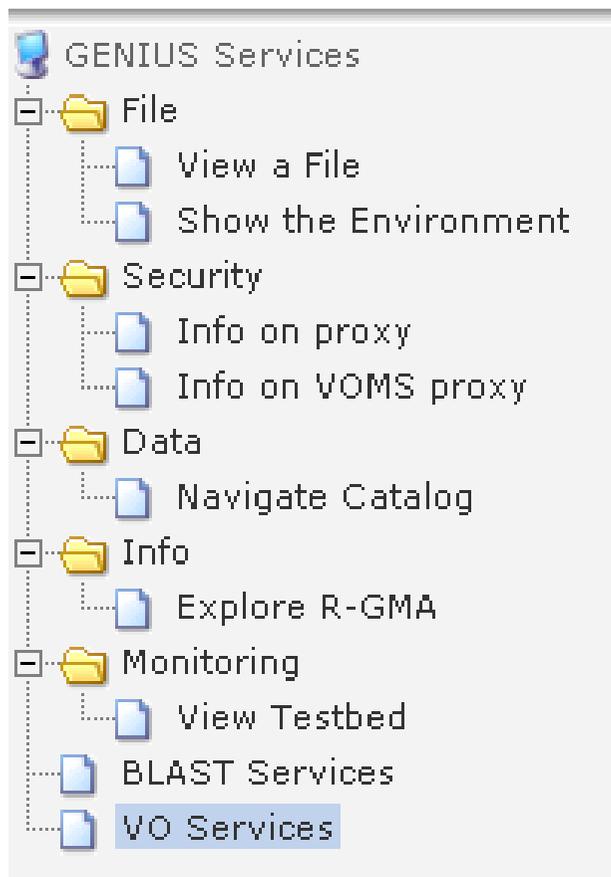
- Работа только с заранее подготовленными задачами и сервисами неполной функциональности (демо-режим)
- Ограниченное время действия MyProxy сертификата

**Login to the GRID**

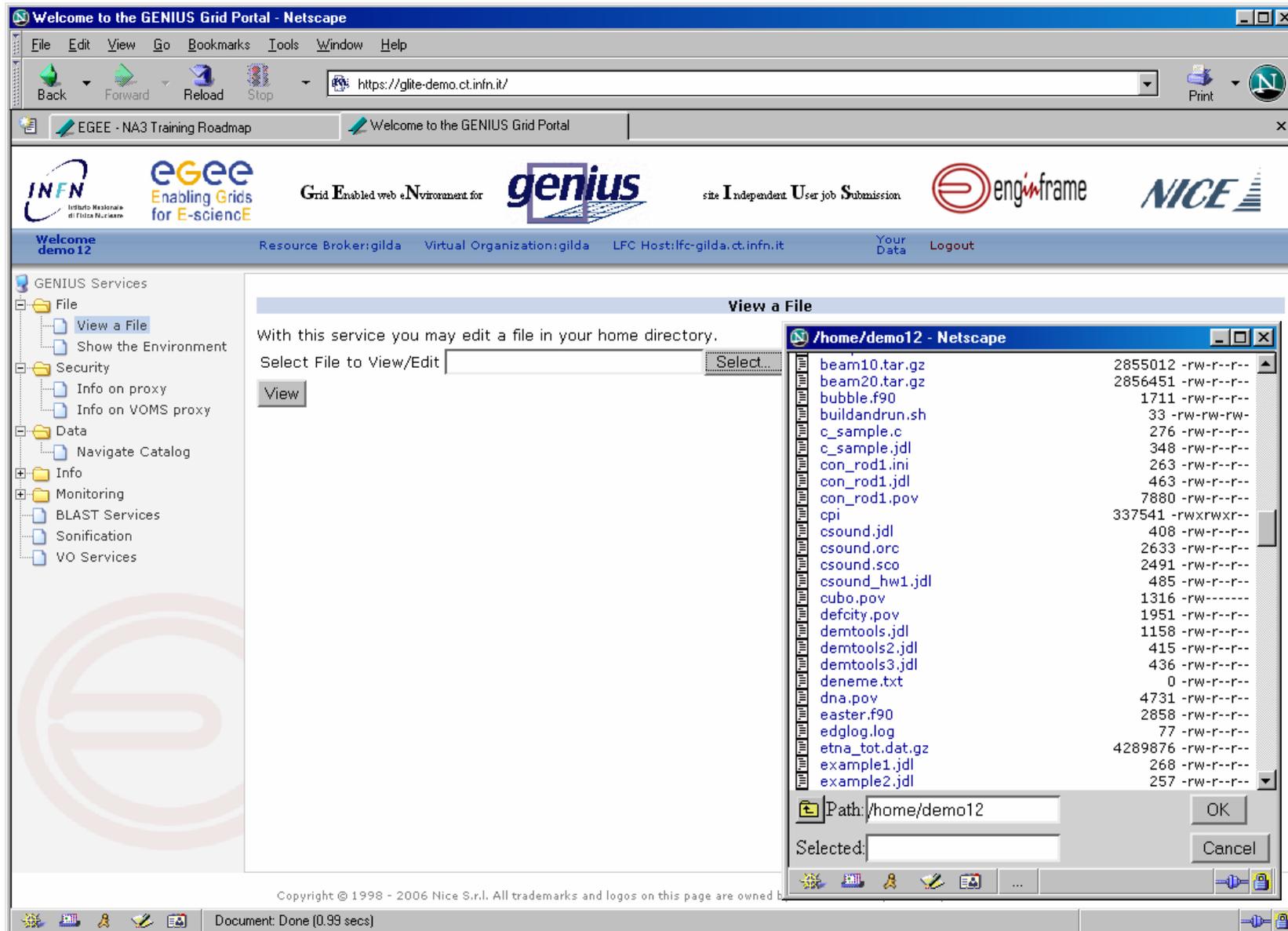
Username:

MyProxy Passphrase:

Validity (hours):



- **Просмотр файлов в HOME директории демо-пользователя**
- **Просмотр переменных окружения**
- **Навигация в пределах директории виртуальной организации GILDA (просмотр и скачивание файлов)**
- **Ссылка на web интерфейс некоторых проектов**



GENIUS Services

- File
  - View a File
  - Show the Environment
- Security
  - Info on proxy
  - Info on VOMS proxy
- Data
  - Navigate Catalog
- Info
- Monitoring
  - BLAST Services
  - Sonification
  - VO Services

View a File

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

Select File to View/Edit

**/home/demo12 - Netscape**

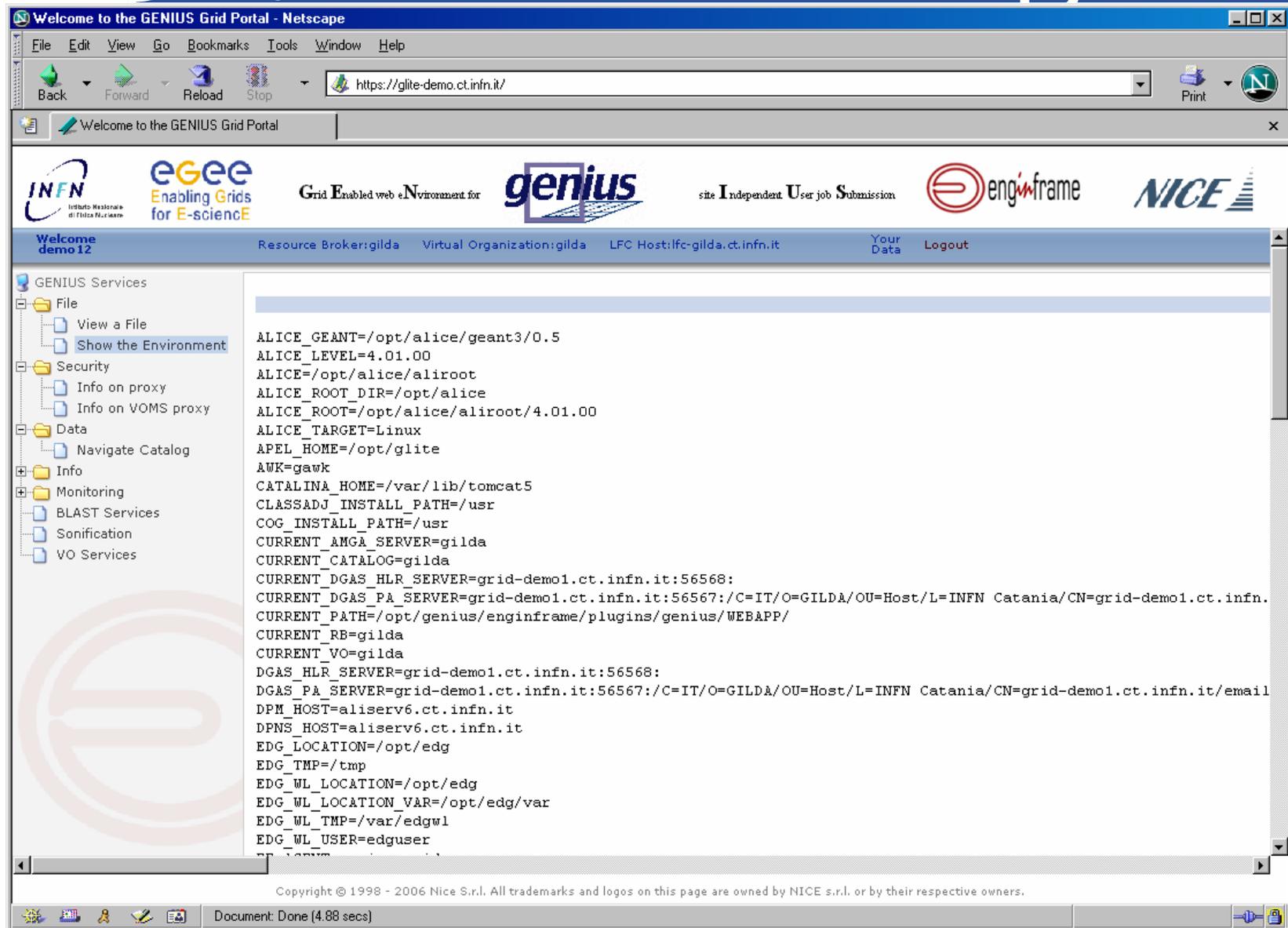
beam10.tar.gz	2855012	-rw-r--r--
beam20.tar.gz	2856451	-rw-r--r--
bubble.f90	1711	-rw-r--r--
buildandrun.sh	33	-rw-rw-rw-
c_sample.c	276	-rw-r--r--
c_sample.jdl	348	-rw-r--r--
con_rod1.ini	263	-rw-r--r--
con_rod1.jdl	463	-rw-r--r--
con_rod1.pov	7880	-rw-r--r--
cpu	337541	-rwxrwxr--
csound.jdl	408	-rw-r--r--
csound.orc	2633	-rw-r--r--
csound.sco	2491	-rw-r--r--
csound_hw1.jdl	485	-rw-r--r--
cubo.pov	1316	-rw-----
defcity.pov	1951	-rw-r--r--
demtools.jdl	1158	-rw-r--r--
demtools2.jdl	415	-rw-r--r--
demtools3.jdl	436	-rw-r--r--
deneme.txt	0	-rw-r--r--
dna.pov	4731	-rw-r--r--
easter.f90	2858	-rw-r--r--
edglog.log	77	-rw-r--r--
etna_tot.dat.gz	4289876	-rw-r--r--
example1.jdl	268	-rw-r--r--
example2.jdl	257	-rw-r--r--

Path: /home/demo12

Selected:

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Document: Done [0.99 secs]



[Welcome to the GENIUS Grid Portal](#) | [Resource Broker:gilda](#) | [Virtual Organization:gilda](#) | [LFC Host:lfc-gilda.ct.infn.it](#) | [Your Data](#) | [Logout](#)

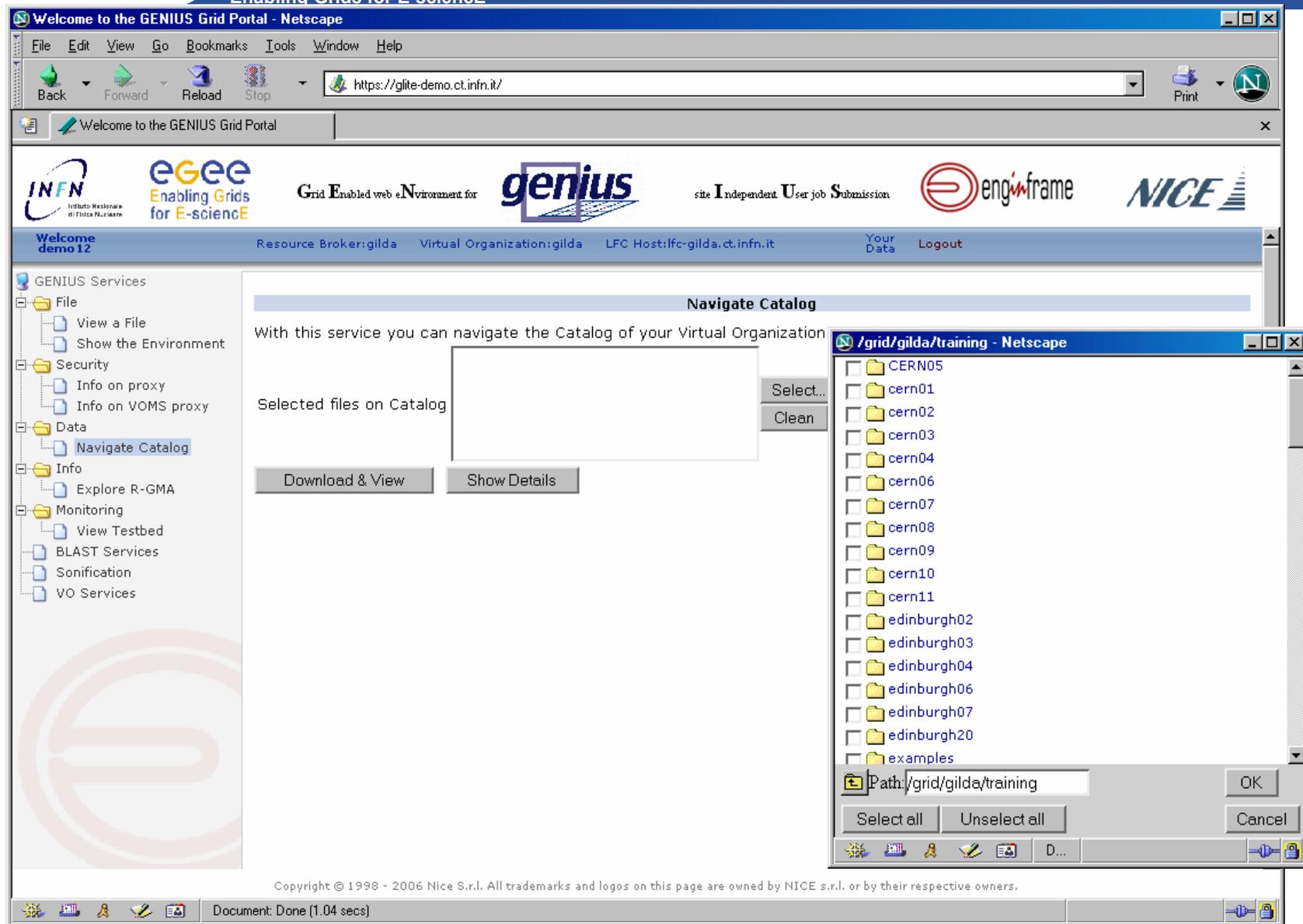
**GENIUS Services**  
 File  
   View a File  
   Show the Environment  
 Security  
   Info on proxy  
   Info on VOMS proxy  
 Data  
   Navigate Catalog  
 Info  
 Monitoring  
   BLAST Services  
   Sonification  
   VO Services

```

ALICE_GEANT=/opt/alice/geant3/0.5
ALICE_LEVEL=4.01.00
ALICE=/opt/alice/aliroot
ALICE_ROOT_DIR=/opt/alice
ALICE_ROOT=/opt/alice/aliroot/4.01.00
ALICE_TARGET=Linux
APEL_HOME=/opt/glite
AWK=gawk
CATALINA_HOME=/var/lib/tomcat5
CLASSADJ_INSTALL_PATH=/usr
COG_INSTALL_PATH=/usr
CURRENT_AMGA_SERVER=gilda
CURRENT_CATALOG=gilda
CURRENT_DGAS_HLR_SERVER=grid-demo1.ct.infn.it:56568:
CURRENT_DGAS_PA_SERVER=grid-demo1.ct.infn.it:56567:/C=IT/O=GILDA/OU=Host/L=INFN Catania/CN=grid-demo1.ct.infn.
CURRENT_PATH=/opt/genius/enginframe/plugins/genius/WEBAPP/
CURRENT_RB=gilda
CURRENT_VO=gilda
DGAS_HLR_SERVER=grid-demo1.ct.infn.it:56568:
DGAS_PA_SERVER=grid-demo1.ct.infn.it:56567:/C=IT/O=GILDA/OU=Host/L=INFN Catania/CN=grid-demo1.ct.infn.it/email
DPM_HOST=aliserv6.ct.infn.it
DPNS_HOST=aliserv6.ct.infn.it
EDG_LOCATION=/opt/edg
EDG_TMP=/tmp
EDG_WL_LOCATION=/opt/edg
EDG_WL_LOCATION_VAR=/opt/edg/var
EDG_WL_TMP=/var/edgw1
EDG_WL_USER=edguser
  
```

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Document: Done (4.88 secs)



Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://gilde-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal







Welcome demo12 Resource Broker:gilda Virtual Organization:gilda LFC Host:lfc-gilda.ct.infn.it Your Data Logout

GENIUS Services

- File
  - View a File
  - Show the Environment
- Security
  - Info on proxy
  - Info on VOMS proxy
- Data
  - Navigate Catalog
- Info
  - Explore R-GMA
- Monitoring
  - View Testbed
- BLAST Services
- Sonification
- VO Services

**Navigate Catalog**

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

Selected files on Catalog

Select... Clean

Download & View Show Details

**/grid/gilda/training - Netscape**

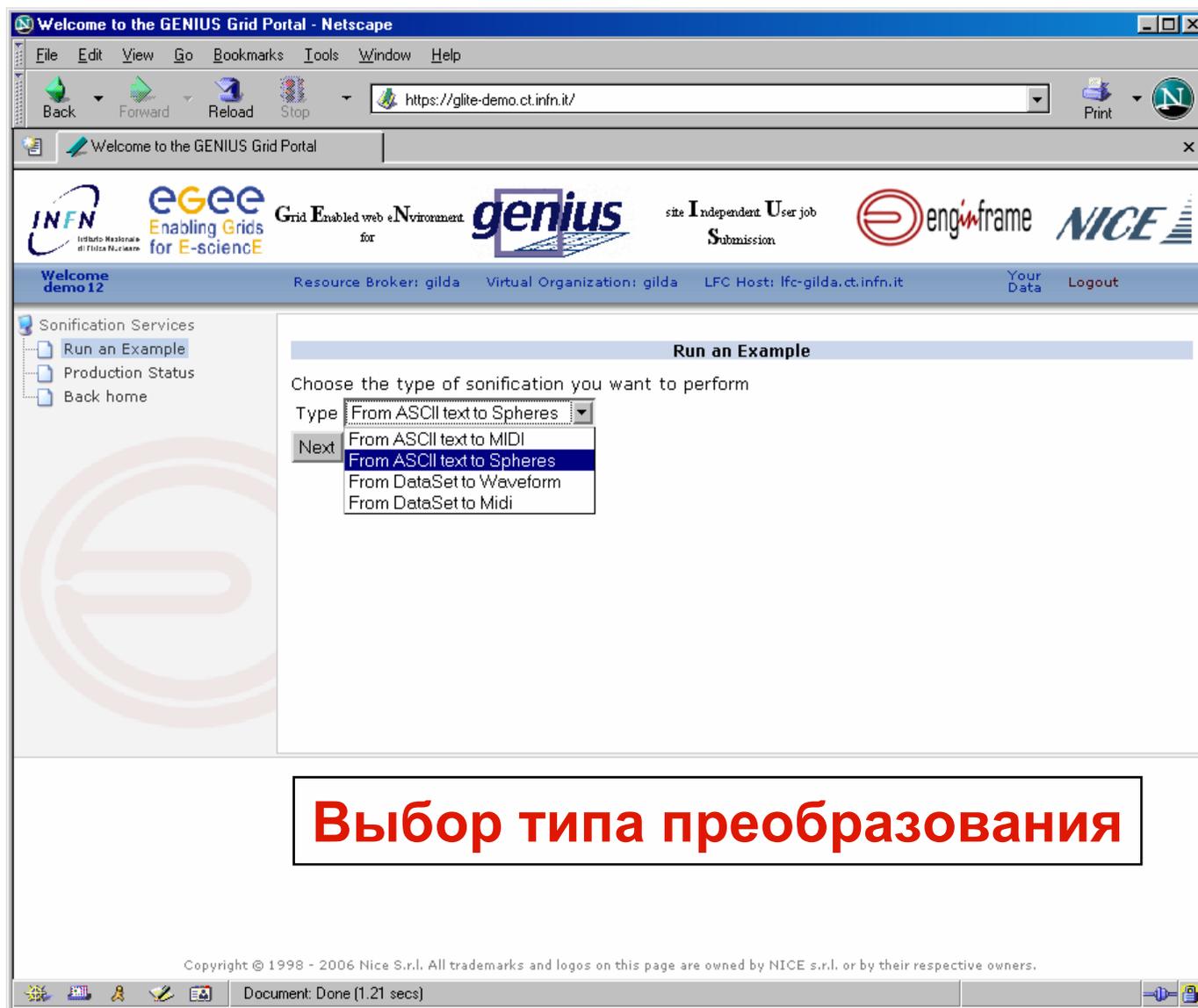
- CERN05
- cern01
- cern02
- cern03
- cern04
- cern06
- cern07
- cern08
- cern09
- cern10
- cern11
- edinburgh02
- edinburgh03
- edinburgh04
- edinburgh06
- edinburgh07
- edinburgh20
- examples

Path: /grid/gilda/training

Select all Unselect all OK Cancel

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Document: Done [1.04 secs]



Choose the type of sonification you want to perform

Type:

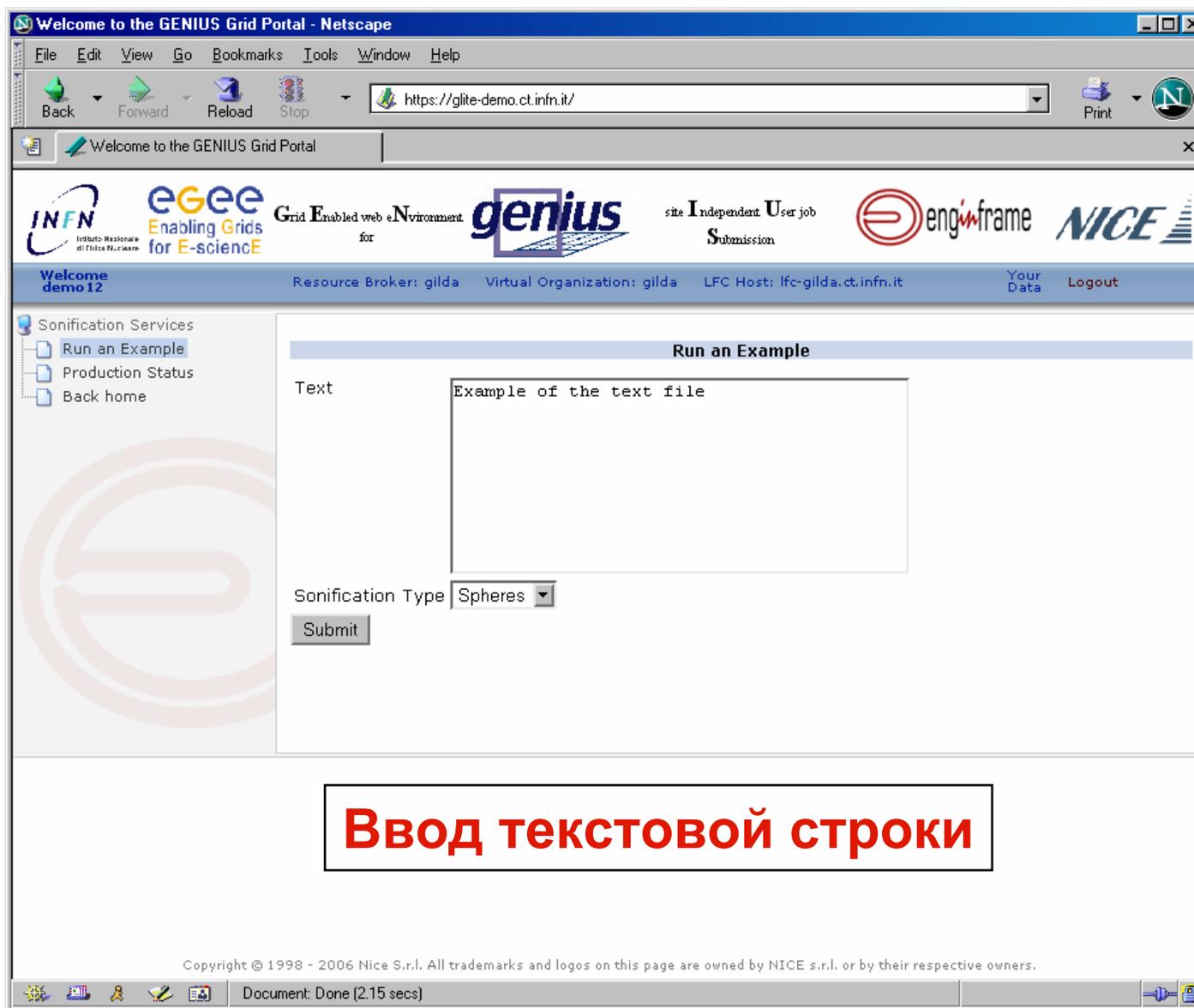
Next

- From ASCII text to Spheres
- From ASCII text to MIDI
- From ASCII text to Spheres**
- From DataSet to Waveform
- From DataSet to Midi

**Выбор типа преобразования**

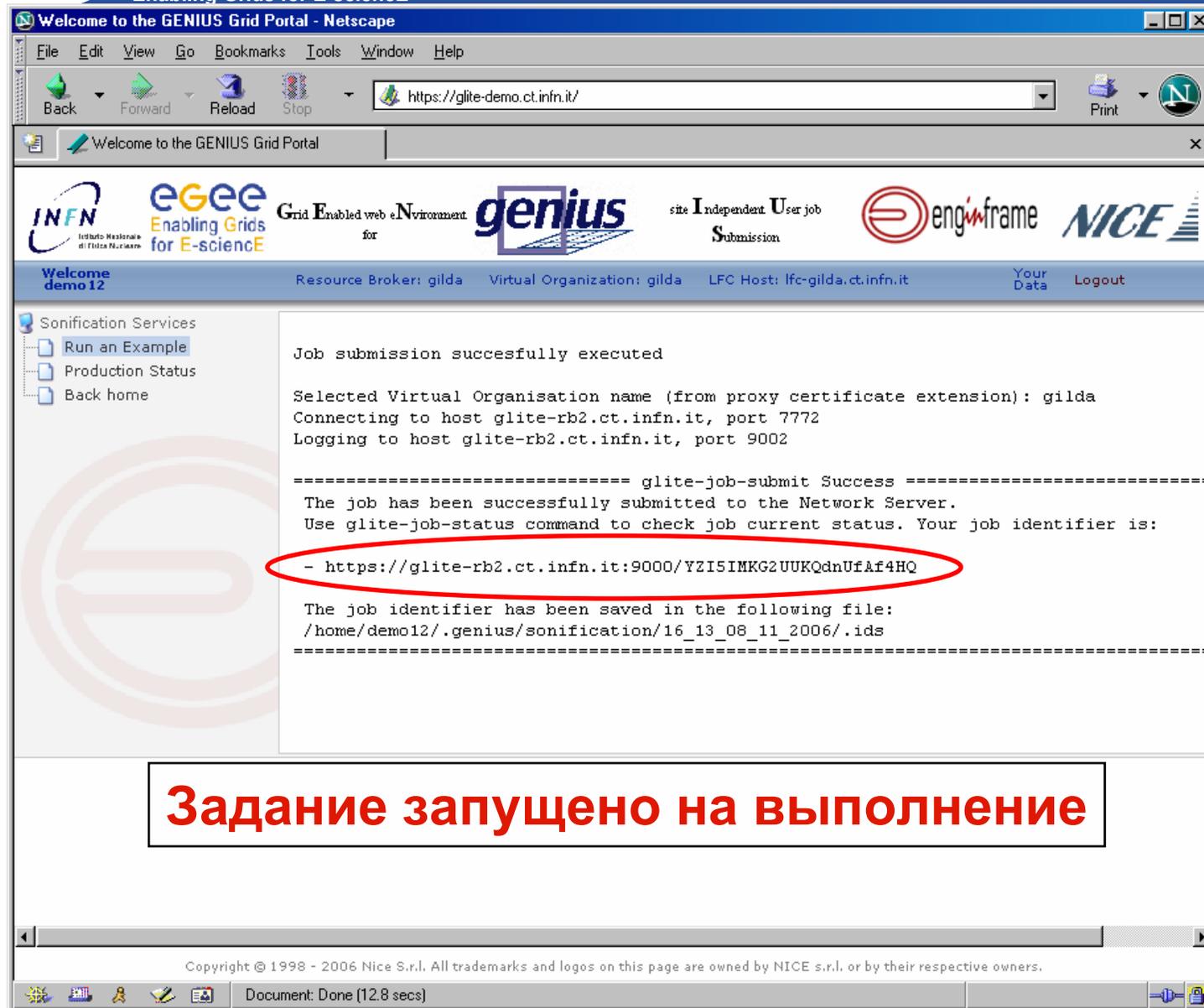
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Document: Done (1.21 secs)



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**Ввод текстовой строки**



Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://glite-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal



 Grid Enabled web eNvironment for  site Independent User job Submission  

Welcome demo12 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

Sonification Services

- Run an Example
- Production Status
- Back home

```

Job submission successfully executed

Selected Virtual Organisation name (from proxy certificate extension): gilda
Connecting to host glite-rb2.ct.infn.it, port 7772
Logging to host glite-rb2.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-rb2.ct.infn.it:9000/YZISIMKG2UUKQdnUfAf4HQ
The job identifier has been saved in the following file:
/home/demo12/.genius/sonification/16_13_08_11_2006/.ids
    
```

**Задание запущено на выполнение**

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Document: Done (12.8 secs)

Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <https://glite-demo.ct.infn.it/> Print

Welcome to the GENIUS Grid Portal







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

Welcome demo12 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

Sonification Services

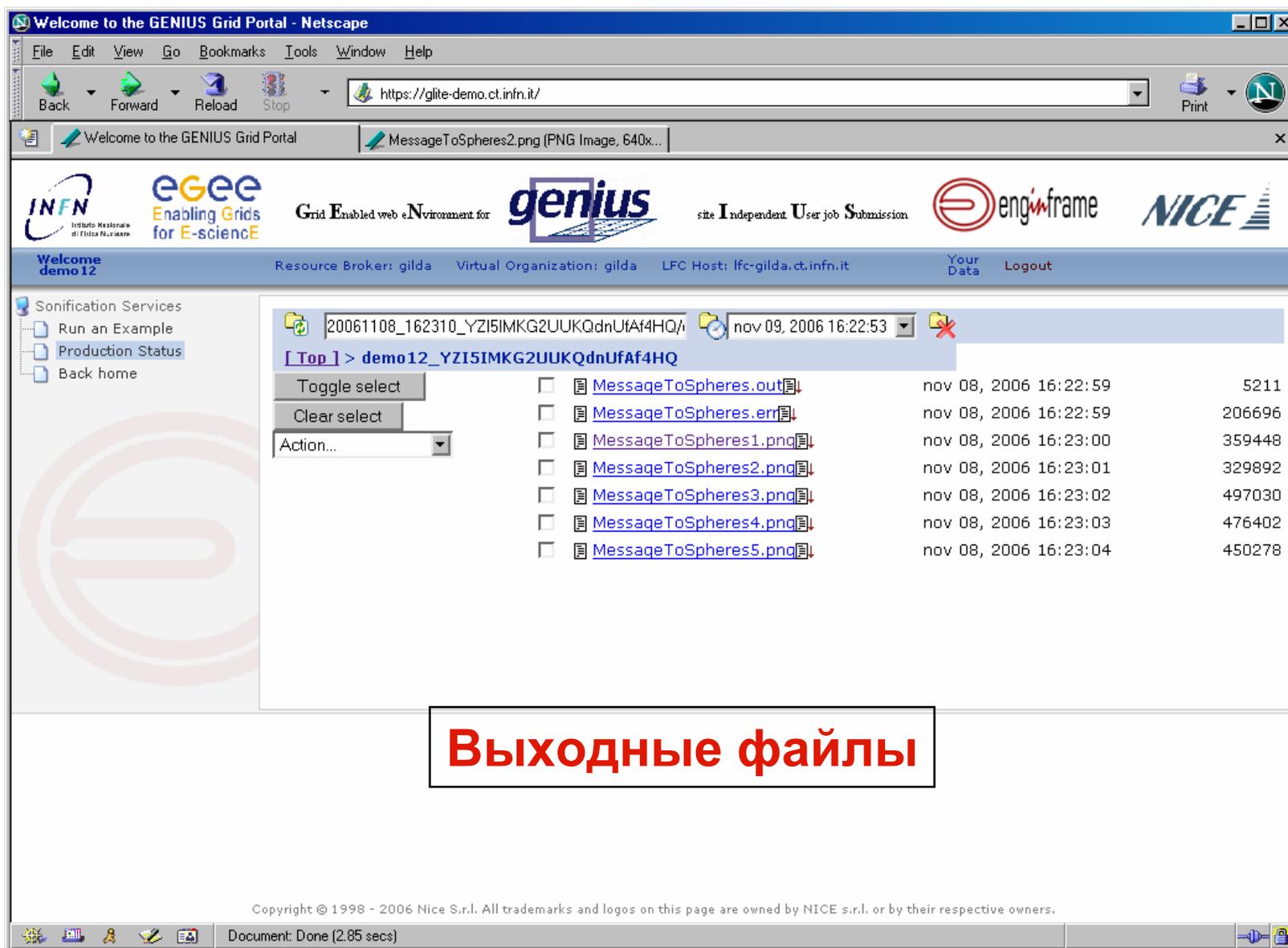
- Run an Example
- Production Status
- Back home

Job Queue					
#	Globus JobID	Last Update Time	Status	Destination	Exit Code
5	<a href="#">YZI5IMKG2UUKQdnUfAf4HQ</a>	2006 Nov 8 16:13	Done	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	0
4	<a href="#">1694IFgTgR6sNQBHYytwpw</a>	2006 Sep 22 16:38	Done	gildace01.roma3.infn.it:2119/jobmanager-lcgpbs-short	
3	<a href="#">rHTTlzqWGGQbDjZmAzQVvXA</a>	2006 Sep 22 16:25	Cleared	trigrd-ce00.unime.it:2119/jobmanager-lcgpbs-short	
2	<a href="#">4NwGoglc_trUOgyuZ7DWJg</a>	2006 Sep 22 16:23	Aborted	grid010.ct.infn.it:2119/jobmanager-lcgpbs-short	
1	<a href="#">UX2AozCvOt1EoEljXPrnJw</a>	2006 Sep 22 16:21	Aborted	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	

**Задание выполнено, результат доступен**

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Transferring data from glite-demo.ct.infn.it...



20061108\_162310\_YZI5IMKG2UUKQdnUfAf4HQ/ nov 09, 2006 16:22:53

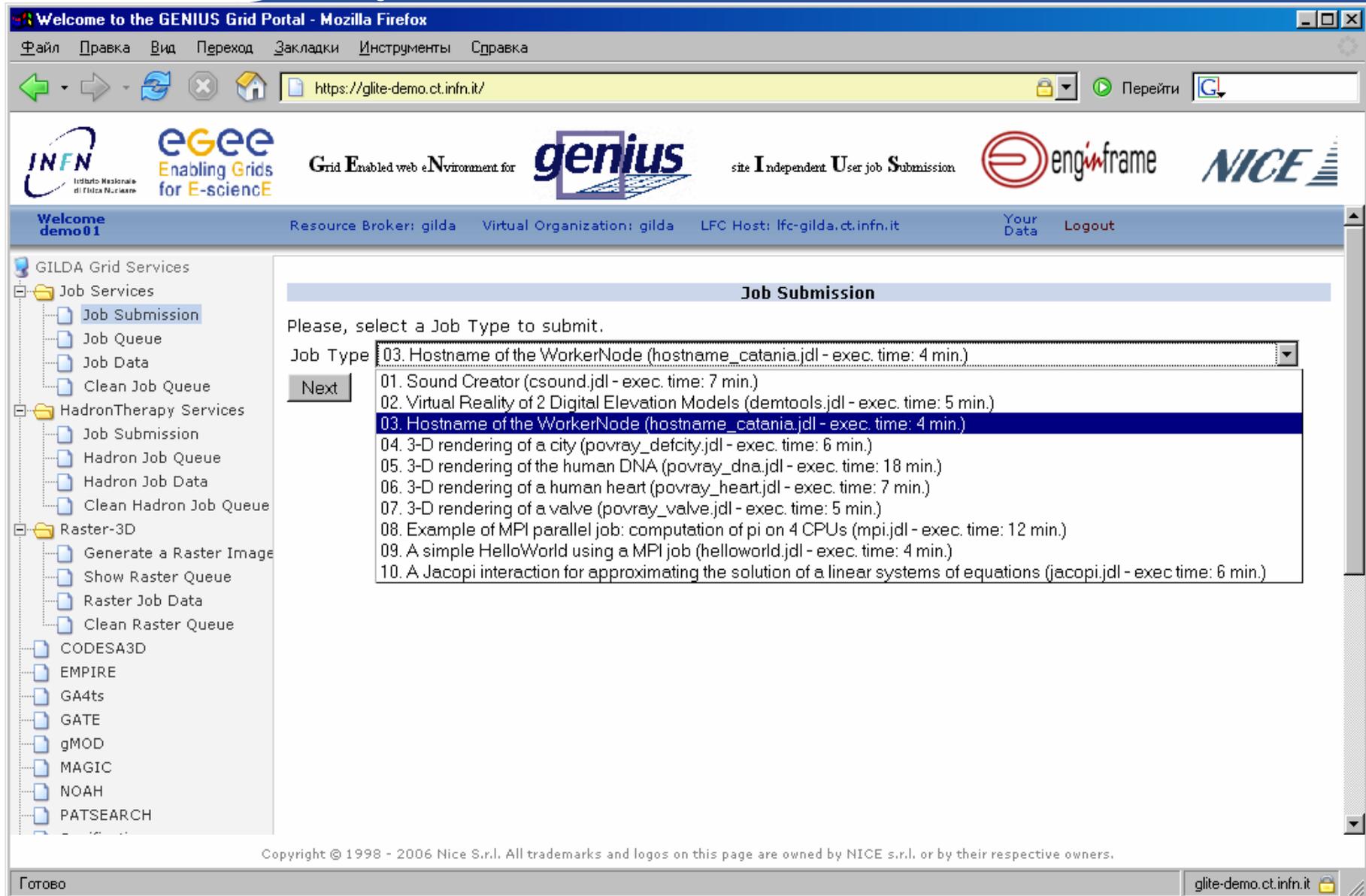
[ Top ] > demo12\_YZI5IMKG2UUKQdnUfAf4HQ

File Name	Timestamp	Size
<a href="#">MessageToSpheres.out</a>	nov 08, 2006 16:22:59	5211
<a href="#">MessageToSpheres.err</a>	nov 08, 2006 16:22:59	206696
<a href="#">MessageToSpheres1.png</a>	nov 08, 2006 16:23:00	359448
<a href="#">MessageToSpheres2.png</a>	nov 08, 2006 16:23:01	329892
<a href="#">MessageToSpheres3.png</a>	nov 08, 2006 16:23:02	497030
<a href="#">MessageToSpheres4.png</a>	nov 08, 2006 16:23:03	476402
<a href="#">MessageToSpheres5.png</a>	nov 08, 2006 16:23:04	450278

**Выходные файлы**

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Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/ Перейти







Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

GILDA Grid Services

- Job Services
  - Job Submission
  - Job Queue
  - Job Data
  - Clean Job Queue
- HadronTherapy Services
  - Job Submission
  - Hadron Job Queue
  - Hadron Job Data
  - Clean Hadron Job Queue
- Raster-3D
  - Generate a Raster Image
  - Show Raster Queue
  - Raster Job Data
  - Clean Raster Queue
- CODESA3D
- EMPIRE
- GA4ts
- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

**Job Submission**

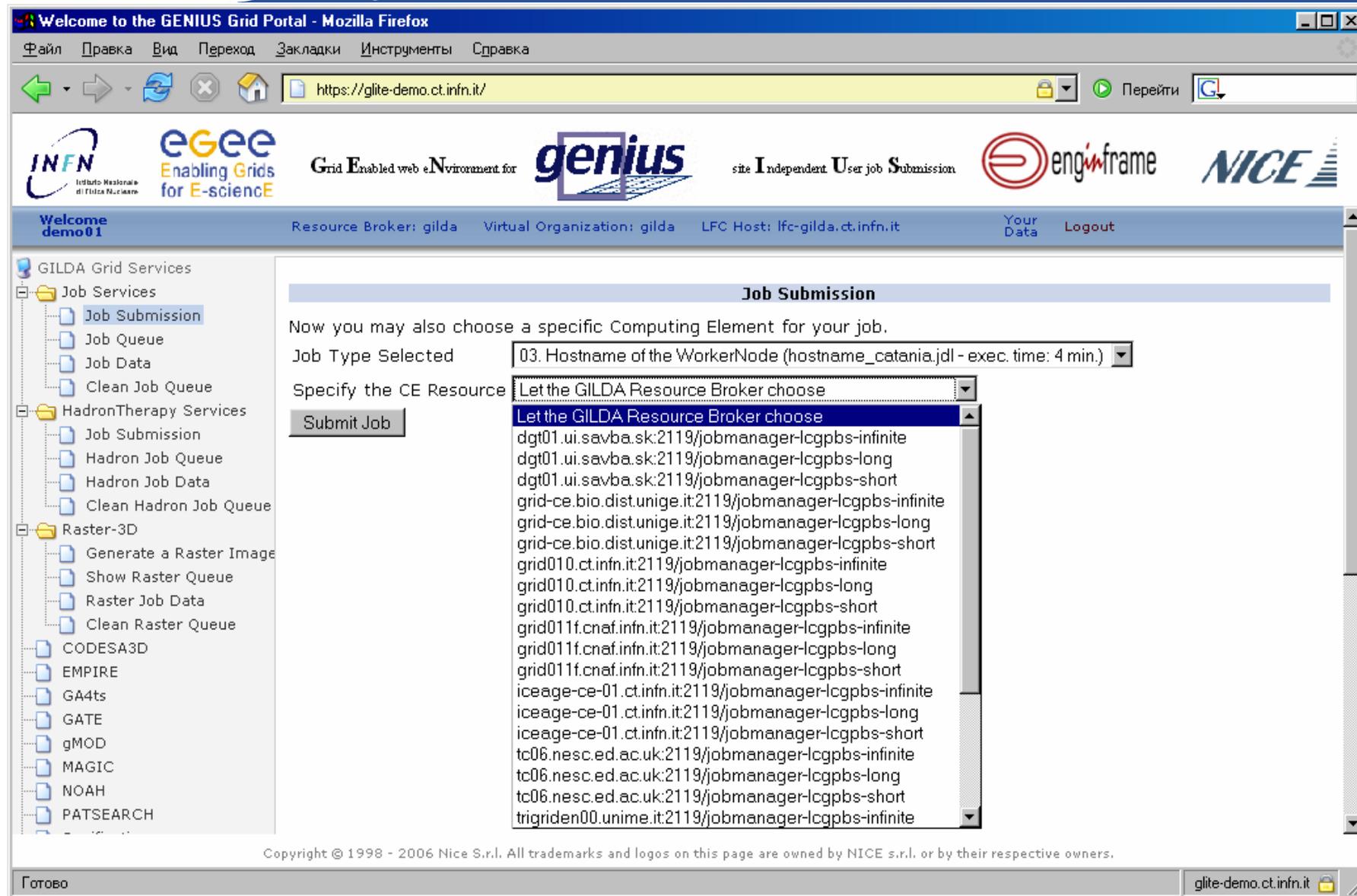
Please, select a Job Type to submit.

Job Type

- 01. Sound Creator (csound.jdl - exec. time: 7 min.)
- 02. Virtual Reality of 2 Digital Elevation Models (demtools.jdl - exec. time: 5 min.)
- 03. Hostname of the WorkerNode (hostname\_catania.jdl - exec. time: 4 min.)**
- 04. 3-D rendering of a city (povray\_defcity.jdl - exec. time: 6 min.)
- 05. 3-D rendering of the human DNA (povray\_dna.jdl - exec. time: 18 min.)
- 06. 3-D rendering of a human heart (povray\_heart.jdl - exec. time: 7 min.)
- 07. 3-D rendering of a valve (povray\_valve.jdl - exec. time: 5 min.)
- 08. Example of MPI parallel job: computation of pi on 4 CPUs (mpi.jdl - exec. time: 12 min.)
- 09. A simple HelloWorld using a MPI job (helloworld.jdl - exec. time: 4 min.)
- 10. A Jacopi interaction for approximating the solution of a linear systems of equations (jacopi.jdl - exec time: 6 min.)

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Готово glite-demo.ct.infn.it



Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/ Перейти







Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

GILDA Grid Services

- Job Services
  - Job Submission
  - Job Queue
  - Job Data
  - Clean Job Queue
- HadronTherapy Services
  - Job Submission
  - Hadron Job Queue
  - Hadron Job Data
  - Clean Hadron Job Queue
- Raster-3D
  - Generate a Raster Image
  - Show Raster Queue
  - Raster Job Data
  - Clean Raster Queue
- CODESA3D
- EMPIRE
- GA4ts
- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

### Job Submission

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

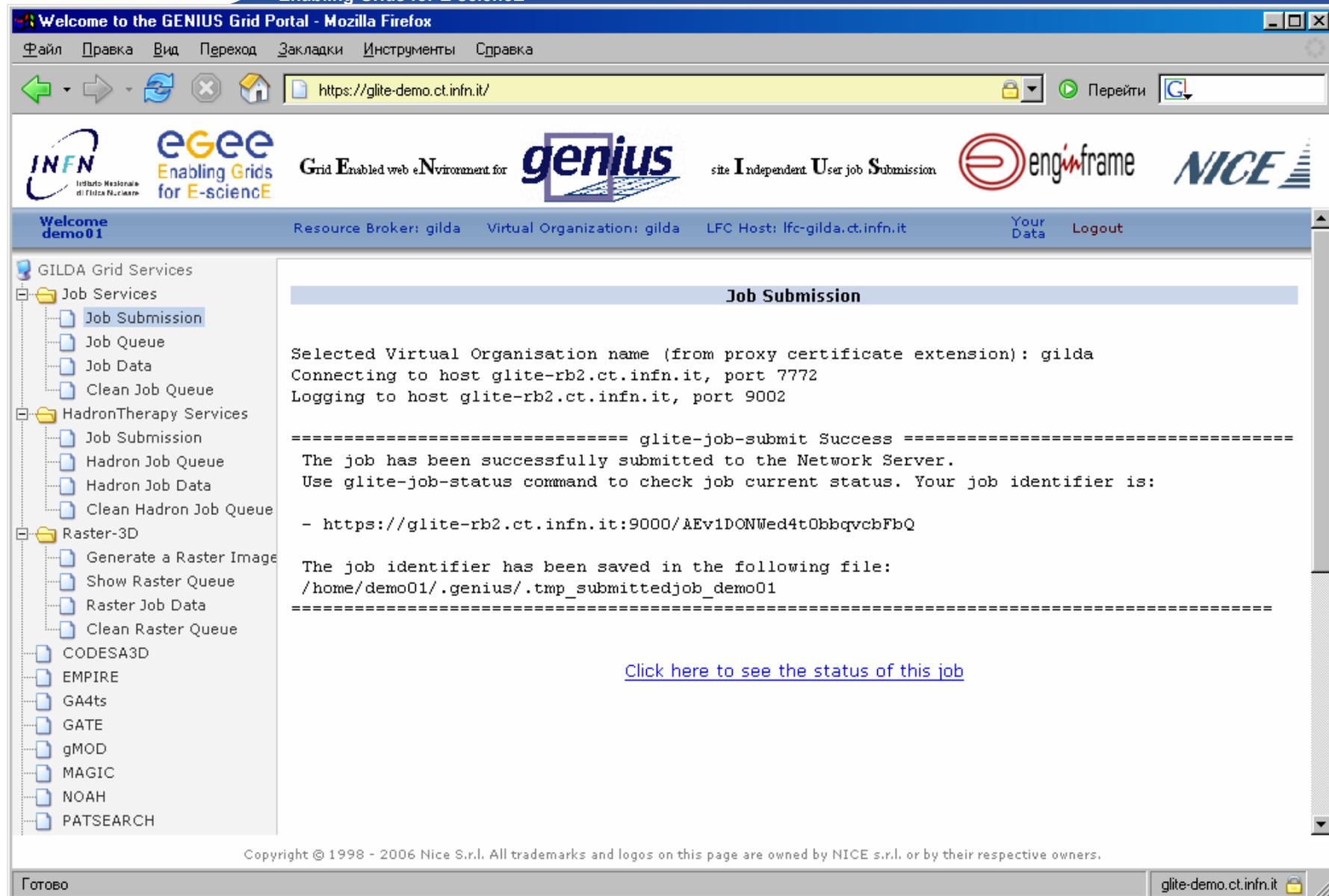
Job Type Selected

Specify the CE Resource

- Let the GILDA 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
- 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
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-infinite
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-long
- grid010.ct.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
- iceage-ce-01.ct.infn.it:2119/jobmanager-lcgpbs-infinite
- iceage-ce-01.ct.infn.it:2119/jobmanager-lcgpbs-long
- iceage-ce-01.ct.infn.it:2119/jobmanager-lcgpbs-short
- tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-infinite
- tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-long
- tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short
- trigriden00.unime.it:2119/jobmanager-lcgpbs-infinite

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Готово glite-demo.ct.infn.it



The screenshot shows a web browser window titled "Welcome to the GENIUS Grid Portal - Mozilla Firefox". The address bar shows the URL "https://glite-demo.ct.infn.it/". The page header includes logos for INFN, EGEE, genius, and NICE. A navigation bar contains "Welcome demo01", "Resource Broker: gilda", "Virtual Organization: gilda", "LFC Host: lfc-gilda.ct.infn.it", "Your Data", and "Logout".

The main content area is titled "Job Submission" and displays the following text:

```

Selected Virtual Organisation name (from proxy certificate extension): gilda
Connecting to host glite-rb2.ct.infn.it, port 7772
Logging to host glite-rb2.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-rb2.ct.infn.it:9000/AEv1DONWed4t0bbqvcbFbQ

The job identifier has been saved in the following file:
/home/demo01/.genius/.tmp_submittedjob_demo01
=====
    
```

Below the text, there is a blue hyperlink: [Click here to see the status of this job](#)

The footer of the page contains the copyright notice: "Copyright © 1998 - 2006 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 status bar at the bottom shows "Готово" and the URL "glite-demo.ct.infn.it".



Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/ Перейти







Welcome demo01    Resource Broker: gilda    Virtual Organization: gilda    LFC Host: lfc-gilda.ct.infn.it    Your Data    Logout

GILDA Grid Services

- Job Services
  - Job Submission
  - Job Queue
  - Job Data
  - Clean Job Queue
- HadronTherapy Services
  - Job Submission
  - Hadron Job Queue
  - Hadron Job Data
  - Clean Hadron Job Queue
- Raster-3D
  - Generate a Raster Image
  - Show Raster Queue
  - Raster Job Data
  - Clean Raster Queue
- CODESA3D
- EMPIRE
- GA4ts
- GATE
- gMOD
- MAGIC
- NOAH

### Job Queue

#	Globus JobID	Last Update Time	Status	Destination	Exit Code	Name
1	<a href="#">AEv1DONWed4t0bbqvcbFbQ</a>	2006 Nov 7 14:52	Running	tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short		hostname_catania.jdl

**Details**

**Submission:**

- Job manager: genius
- Time: 2006 Nov 7 14:52
- Host:
- Directory:

**Execution:**

- Time:
- Host: tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short
- Directory:

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Готово glite-demo.ct.infn.it

Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/







Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

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- NOAH

**Job Queue**

#	Globus JobID	Last Update Time	Status	Destination	Exit Code	Name
1	<a href="#">AEv1DONWed4t0bbqvcfbFbQ</a>	2006 Nov 7 14:52	Done	tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short	0	hostname_catania

[Details](#)

Done  
GET OUTPUT

**[[Приложение JavaScript]]**

Do you really want to get output of job  
https://glite-rb2.ct.infn.it:9000/AEv1DONWed4t0bbqvcfbFbQ?

OK Отмена

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Готово glite-demo.ct.infn.it

Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/ Перейти







Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

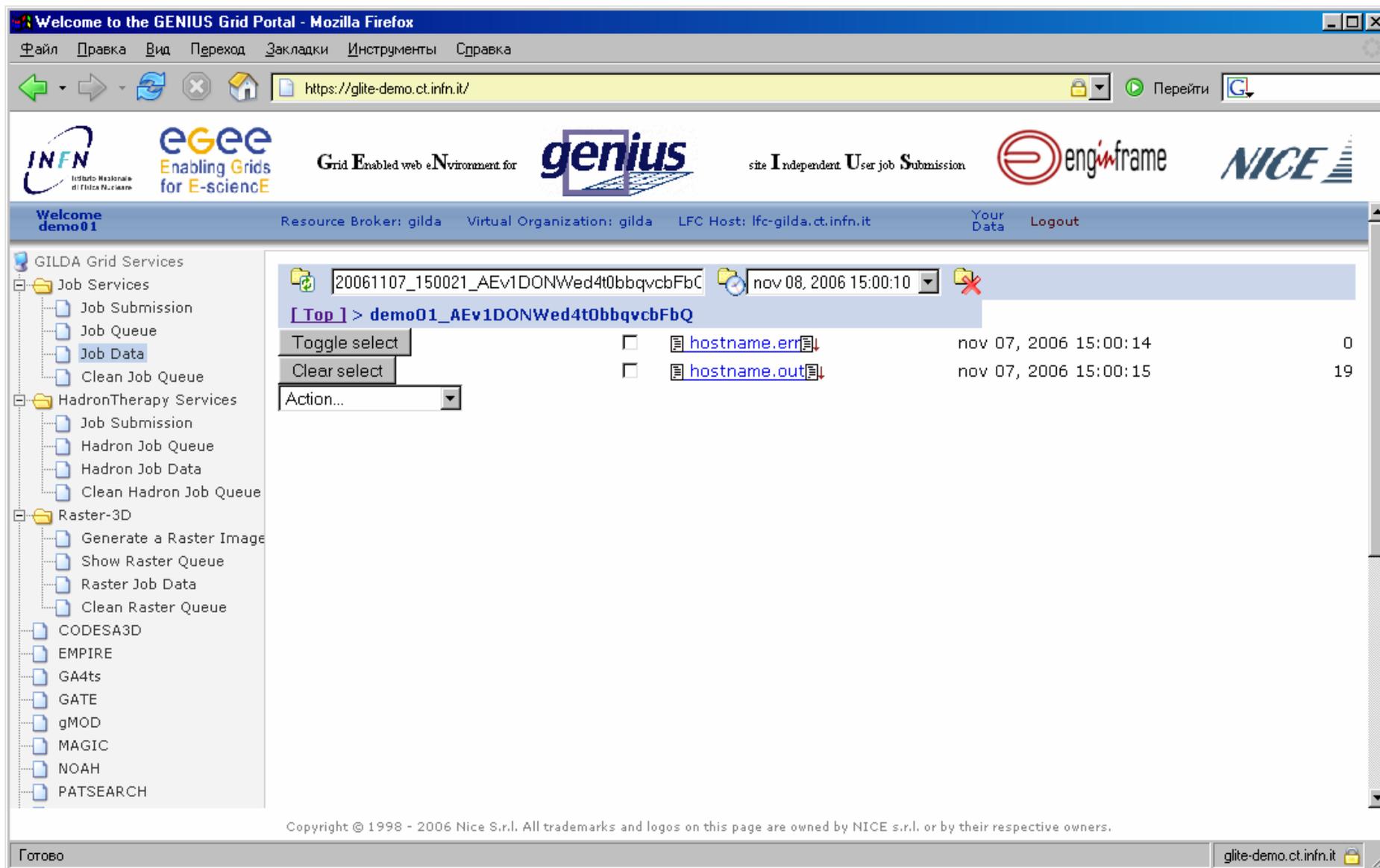
GILDA Grid Services

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- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

20061107_150021_AEv1DONWed4t0bbqvcbF	nov 08, 2006 15:00:10		
<input type="checkbox"/>	<a href="#">demo01_AEv1DONWed4t0bbqvcbFbQ</a>	nov 07, 2006 15:00:15	4096

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Готово glite-demo.ct.infn.it



[File](#) [Edit](#) [View](#) [Go](#) [Bookmarks](#) [Tools](#) [Help](#)

<https://glite-demo.ct.infn.it/>







Welcome demo01    Resource Broker: gilda    Virtual Organization: gilda    LFC Host: lfc-gilda.ct.infn.it    Your Data    Logout

**GILDA Grid Services**

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- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

20061107\_150021\_AEv1DONWed4t0bbqvcbFbC    nov 08, 2006 15:00:10

[\[ Top \]](#) > demo01\_AEv1DONWed4t0bbqvcbFbQ

<input type="checkbox"/>	<a href="#">hostname.err</a>	nov 07, 2006 15:00:14	0
<input type="checkbox"/>	<a href="#">hostname.out</a>	nov 07, 2006 15:00:15	19

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Готово    glite-demo.ct.infn.it

A screenshot of a Mozilla Firefox browser window. The title bar reads "Welcome to the GENIUS Grid Portal - Mozilla Firefox". The address bar shows the URL "https://glite-demo.ct.infn.it/". The page content includes several logos: INFN (Istituto Nazionale di Fisica Nucleare), eGEE (Enabling Grids for E-science), Grid Enabled web eNvironment for genius, site Independent User job Submission, enginframe, and NICE. A red oval highlights the URL "tc08.nesc.ed.ac.uk" in the top left corner of the page content. The footer contains the copyright notice: "Copyright © 1998 - 2006 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners." The status bar at the bottom shows "Готово" and the current page URL "glite-demo.ct.infn.it".

Welcome to the GENIUS Grid Portal - Mozilla Firefox

Файл Правка Вид Переход Закладки Инструменты Справка

https://glite-demo.ct.infn.it/ Перейти







Welcome demo01 Resource Broker: gilda Virtual Organization: gilda LFC Host: lfc-gilda.ct.infn.it Your Data Logout

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- PATSEARCH

20061107\_150021\_AEv1DONWed4t0bbqvcbFbC nov 08, 2006 15:00:10

[ Top ] > demo01\_AEv1DONWed4t0bbqvcbFbQ

Toggle select  [hostname.err](#) nov 07, 2006 15:00:14 0

Clear select  [hostname.out](#) nov 07, 2006 15:00:15 19

Action...

- Action...
- Delete selected
- Create .zip
- Create .tar
- Create .tar.Z
- Create .tgz
- Download selected

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