



Enabling Grids for E-scienceE

GILDA Grid Demonstrator

Олешко Сергей

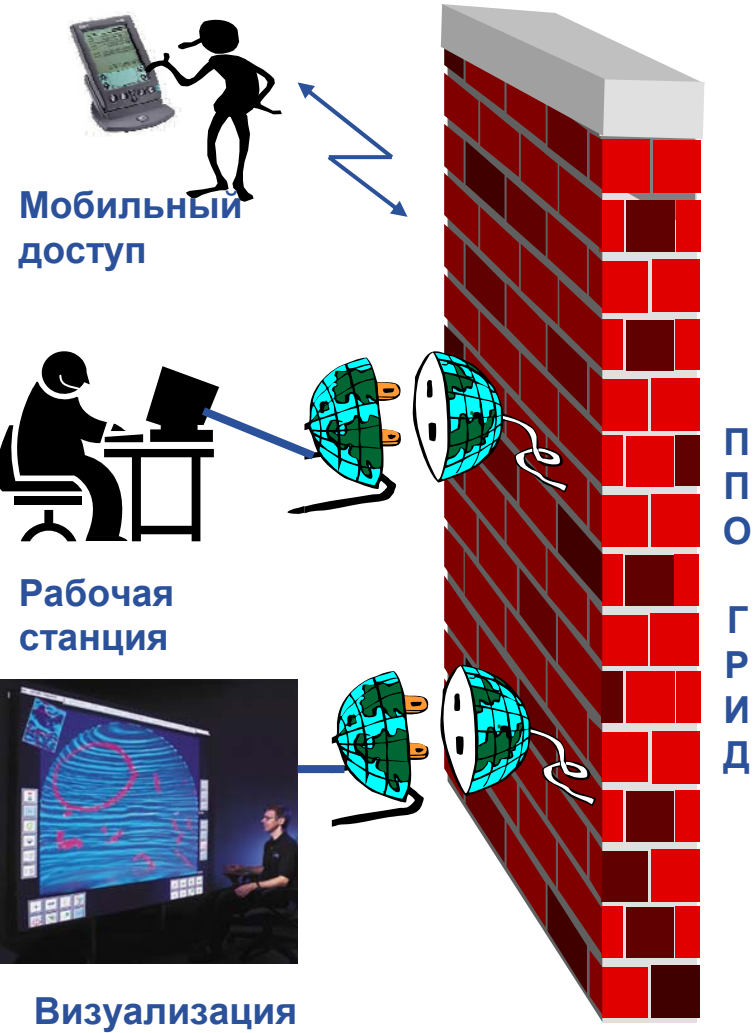
Петербургский институт ядерной физики РАН

www.eu-egee.org



Information Society



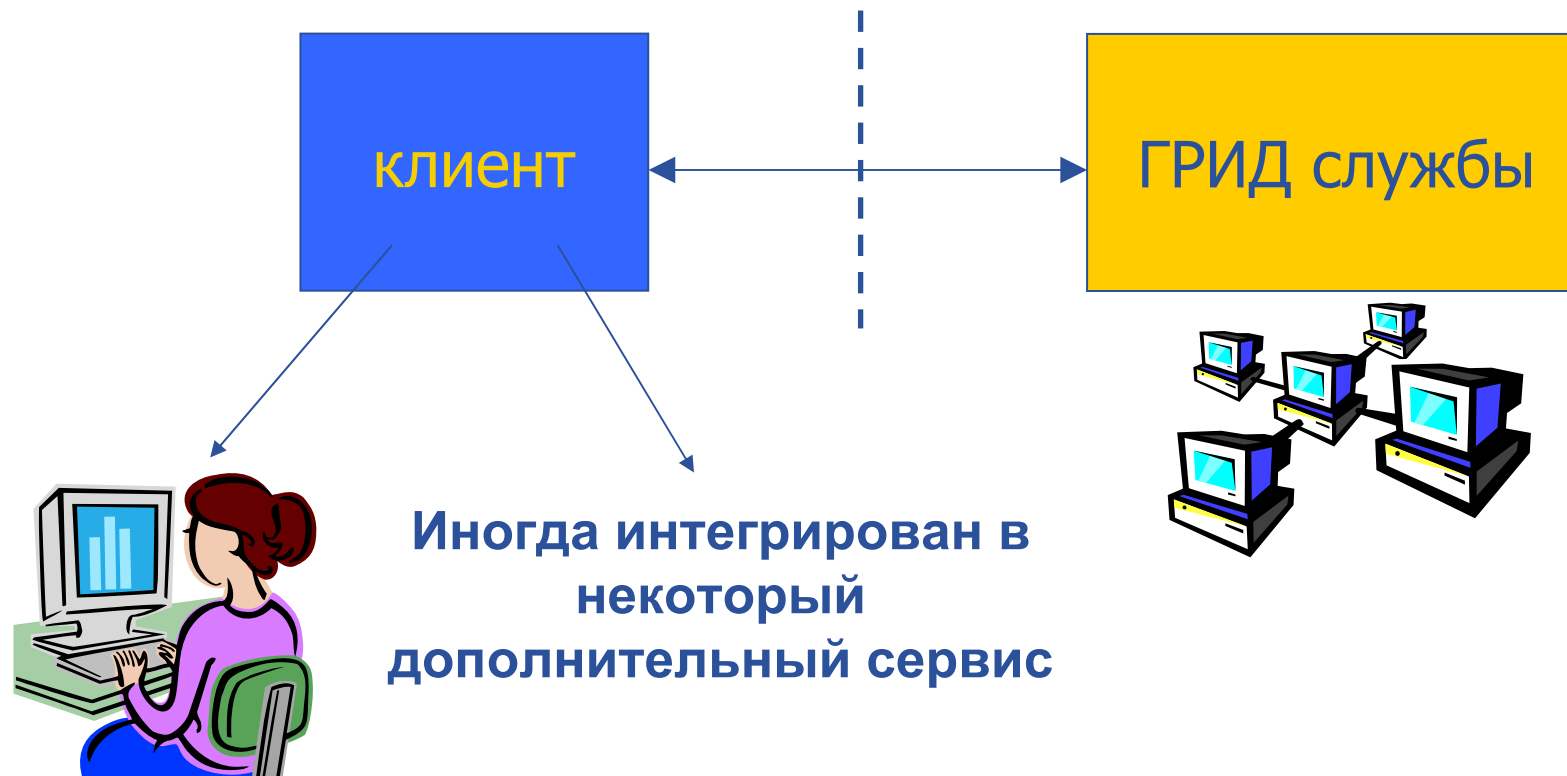


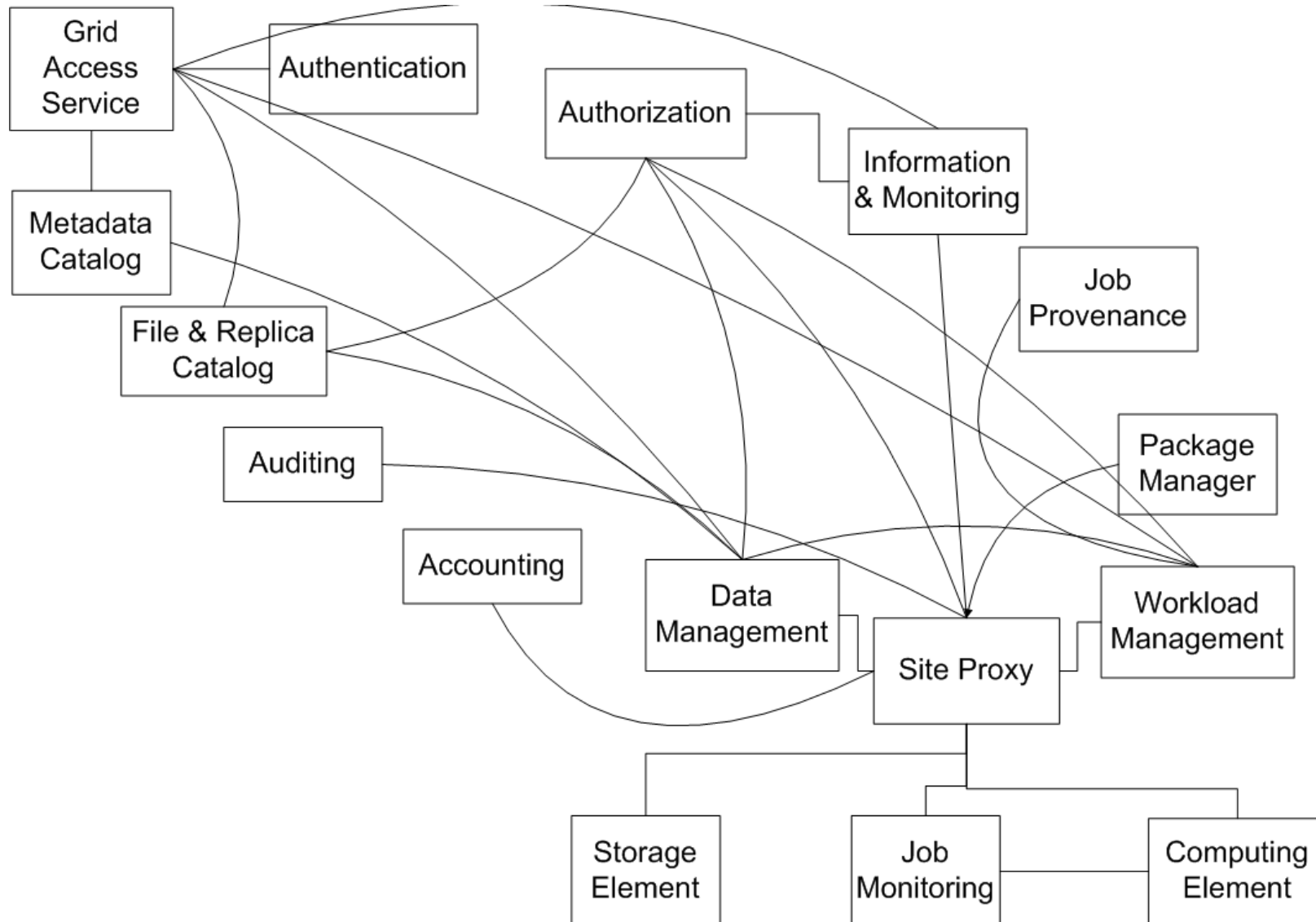
Суперкомпьютеры, кластеры

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



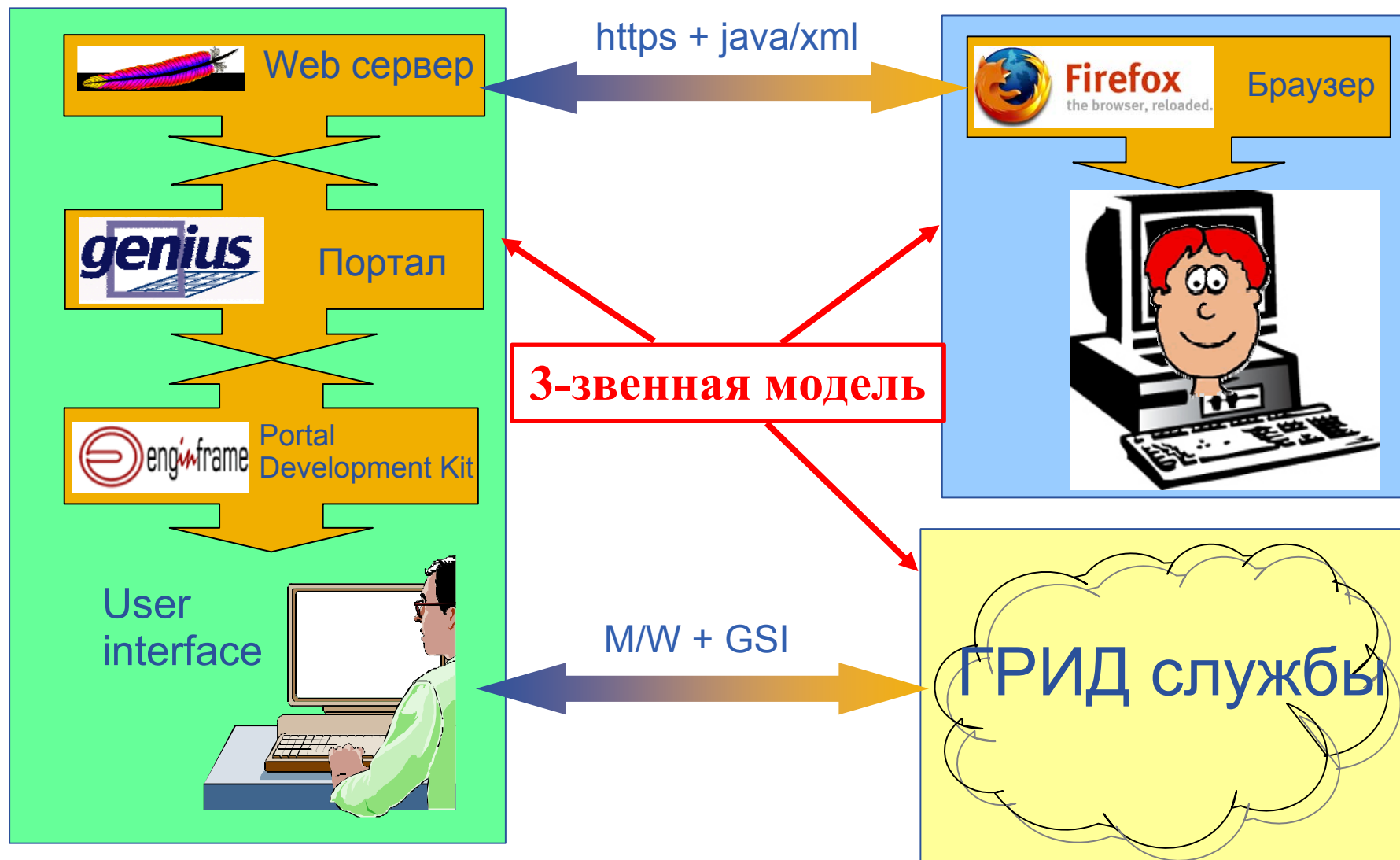
- Он может быть доступен отовсюду и при помощи “чего угодно” (ПК, ноутбук, КПК, мобильный телефон).
- Он может использовать один и тот же пользовательский интерфейс для доступа к различным службам.
- Он должен обеспечивать “избыточную безопасность” на всех уровнях: 1) безопасность передачи данных по 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

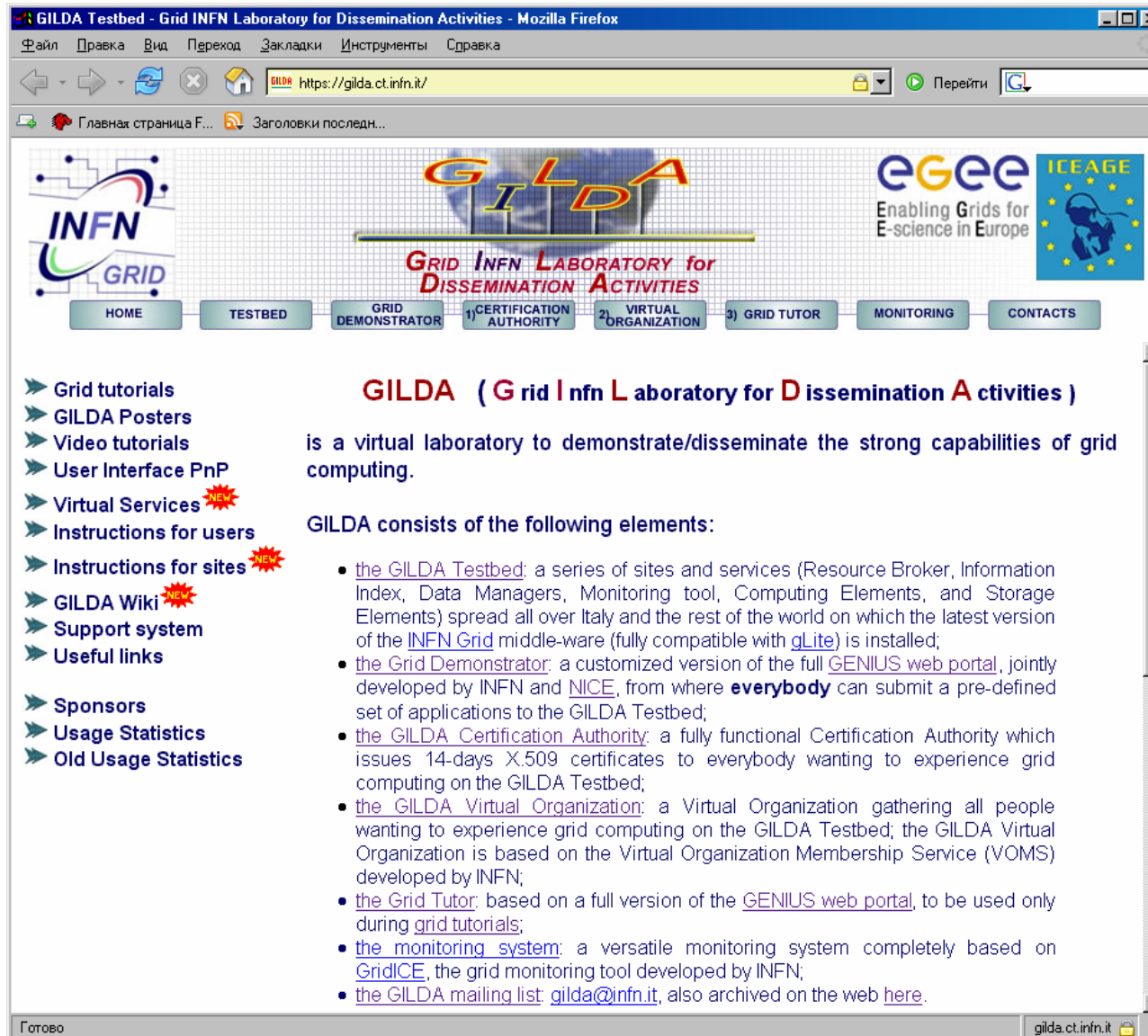


Существует несколько версий портала:

- **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, 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, and NICE. The main content area displays the following text:

**Welcome to the GILDA Grid Demonstrator
powered by GENIUS Portal
based on**



[Credits](#)

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.

powered by 

Last update: Mon 3 July 2006

The left sidebar of the website lists "GENIUS Services" with categories: File (View a File, Show the Environment), Security (Info on proxy, Info on VOMS proxy), Data (Navigate Catalog), Info (Explore R-GMA), and Monitoring (View Testbed, BLAST Services, VO Services). The footer of the browser window contains the text: "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." and the URL glite-demo.ct.infn.it.

+

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

-

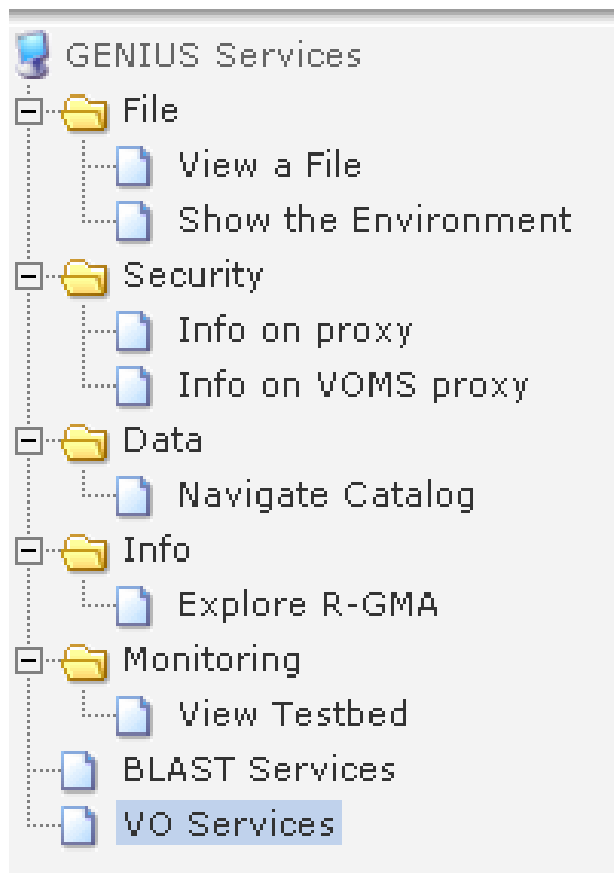
- Работа только с заранее подготовленными задачами и сервисами неполной функциональности (демо-режим)
- Ограниченное время действия MyProxy сертификата

Login to the GRID

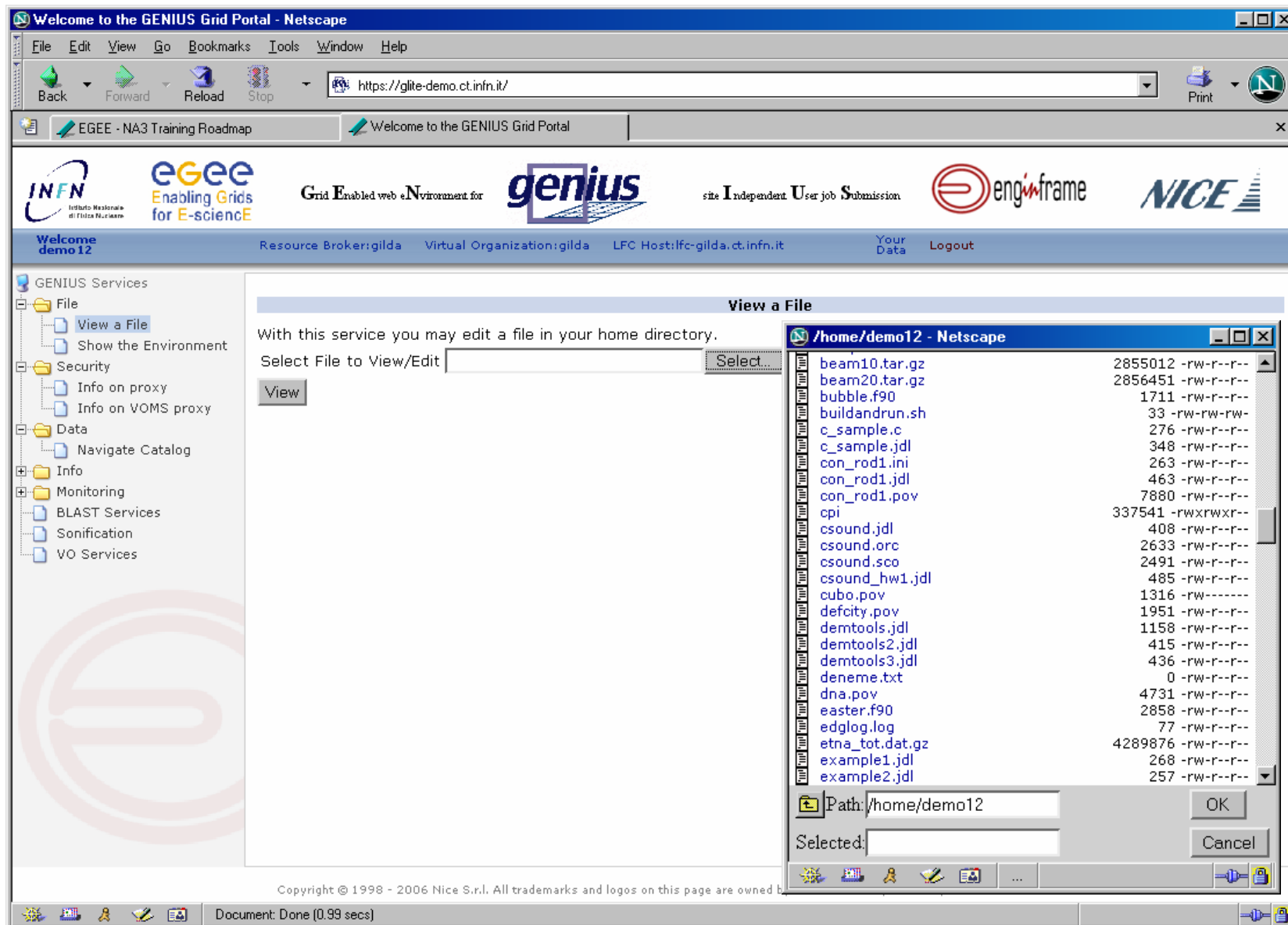
Username:

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**








Welcome to the GENIUS Grid Portal - Netscape

File Edit View Go Bookmarks Tools Window Help

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

EGEE - NA3 Training Roadmap Welcome to the GENIUS Grid Portal

Welcome demo 12 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

View a File

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

Select File to View/Edit

/home/demo12 - Netscape

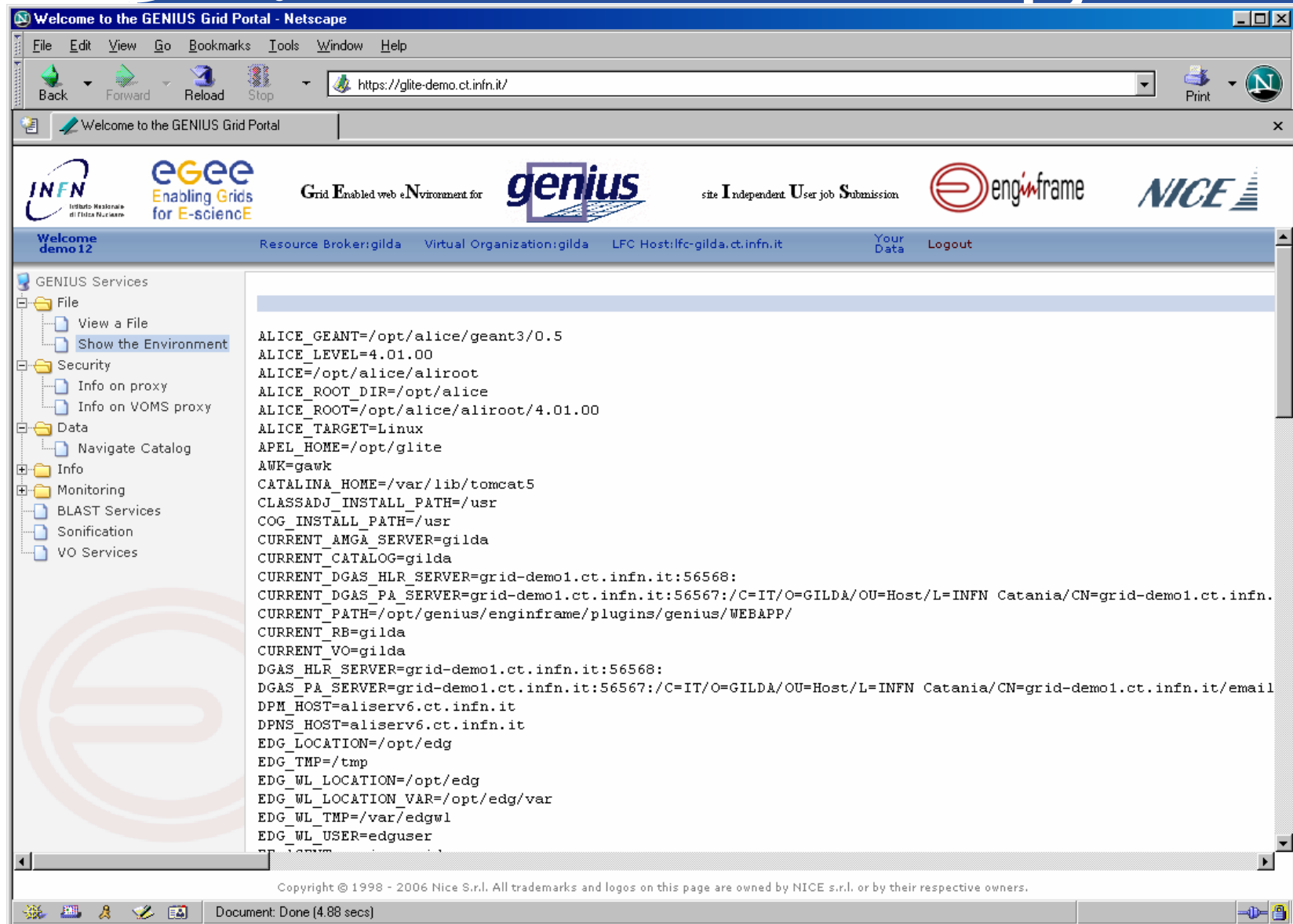
beam10.tar.gz	2855012	-rw-r--r--
beam20.tar.gz	2856451	-rw-r--r--
bubble.f90	1711	-rw-r--r--
buildandrun.sh	33	-rw-rw-rw-
c_sample.c	276	-rw-r--r--
c_sample.jdl	348	-rw-r--r--
con_rod1.ini	263	-rw-r--r--
con_rod1.jdl	463	-rw-r--r--
con_rod1.pov	7880	-rw-r--r--
cpi	337541	-rwxrwxr--
csound.jdl	408	-rw-r--r--
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]



The screenshot shows a Netscape browser window titled "Welcome to the GENIUS Grid Portal - Netscape". The address bar contains the URL "https://glite-demo.ct.infn.it/". The page header includes logos for INFN, eGEE, genius, enginframe, and NICE. Below the header, there are navigation links: "Welcome demo12", "Resource Broker:gilda", "Virtual Organization:gilda", "LFC Host:lfc-gilda.ct.infn.it", "Your Data", and "Logout".

The main content area is titled "GENIUS Services" and has a left-hand navigation menu with the following items: File, Security, Data, Info, Monitoring, BLAST Services, Sonification, and VO Services. Under "File", "View a File" and "Show the Environment" are visible. The "Show the Environment" option is selected, displaying a list of environment variables in a text area:

```

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

```

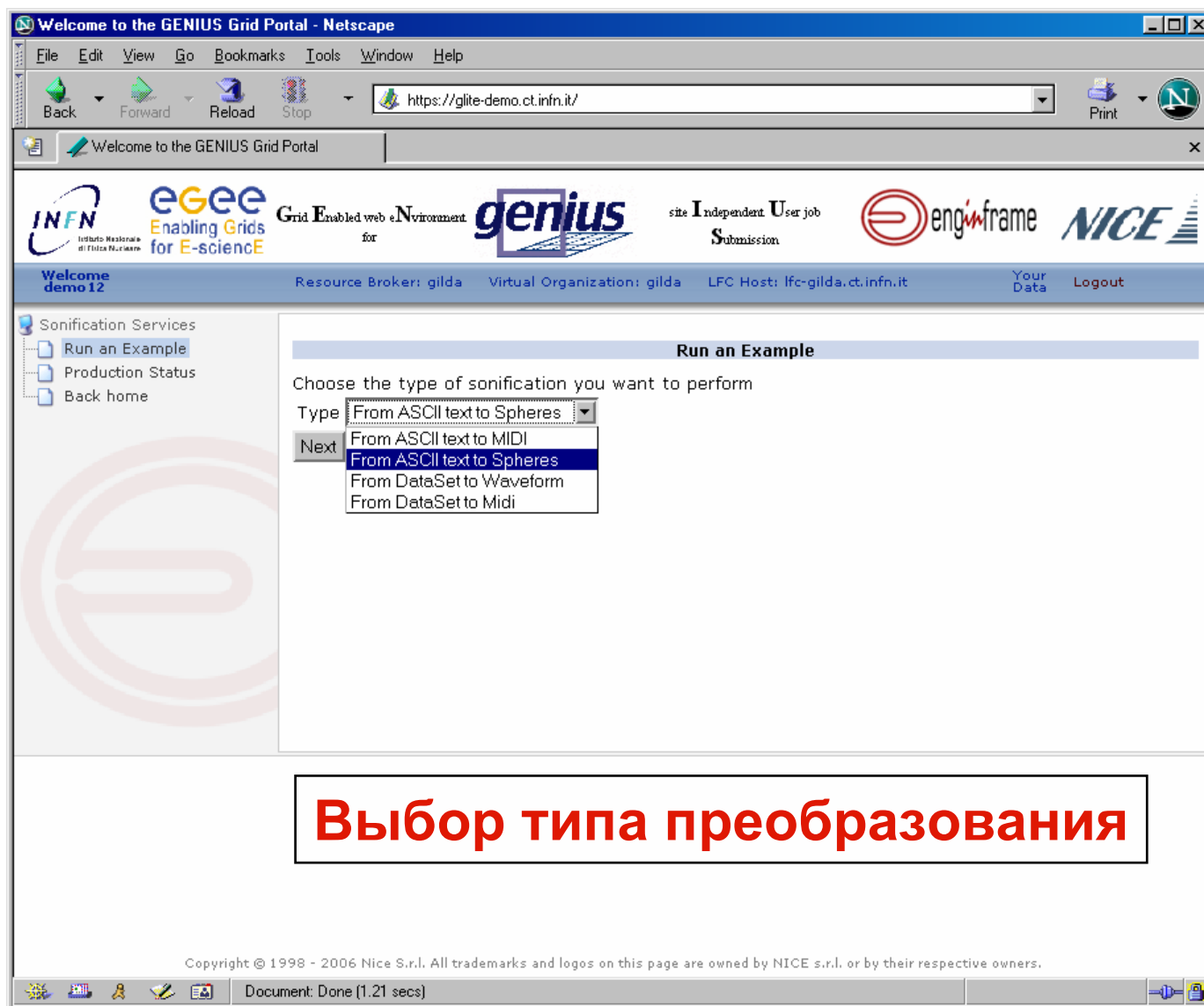
At the bottom of the browser window, there is a copyright notice: "Copyright © 1998 - 2006 Nice S.r.l. All trademarks and logos on this page are owned by NICE s.r.l. or by their respective owners." The status bar at the very bottom shows "Document: Done (4.88 secs)".

The screenshot shows a Netscape browser window titled "Welcome to the GENIUS Grid Portal - Netscape". The address bar shows "https://gilde-demo.ct.infn.it/". The page header includes logos for INFN, eGEE, genius, enginframe, and NICE. Below the header, there are navigation links: "Resource Broker:gilda", "Virtual Organization:gilda", "LFC Host:lfc-gilda.ct.infn.it", "Your Data", and "Logout".

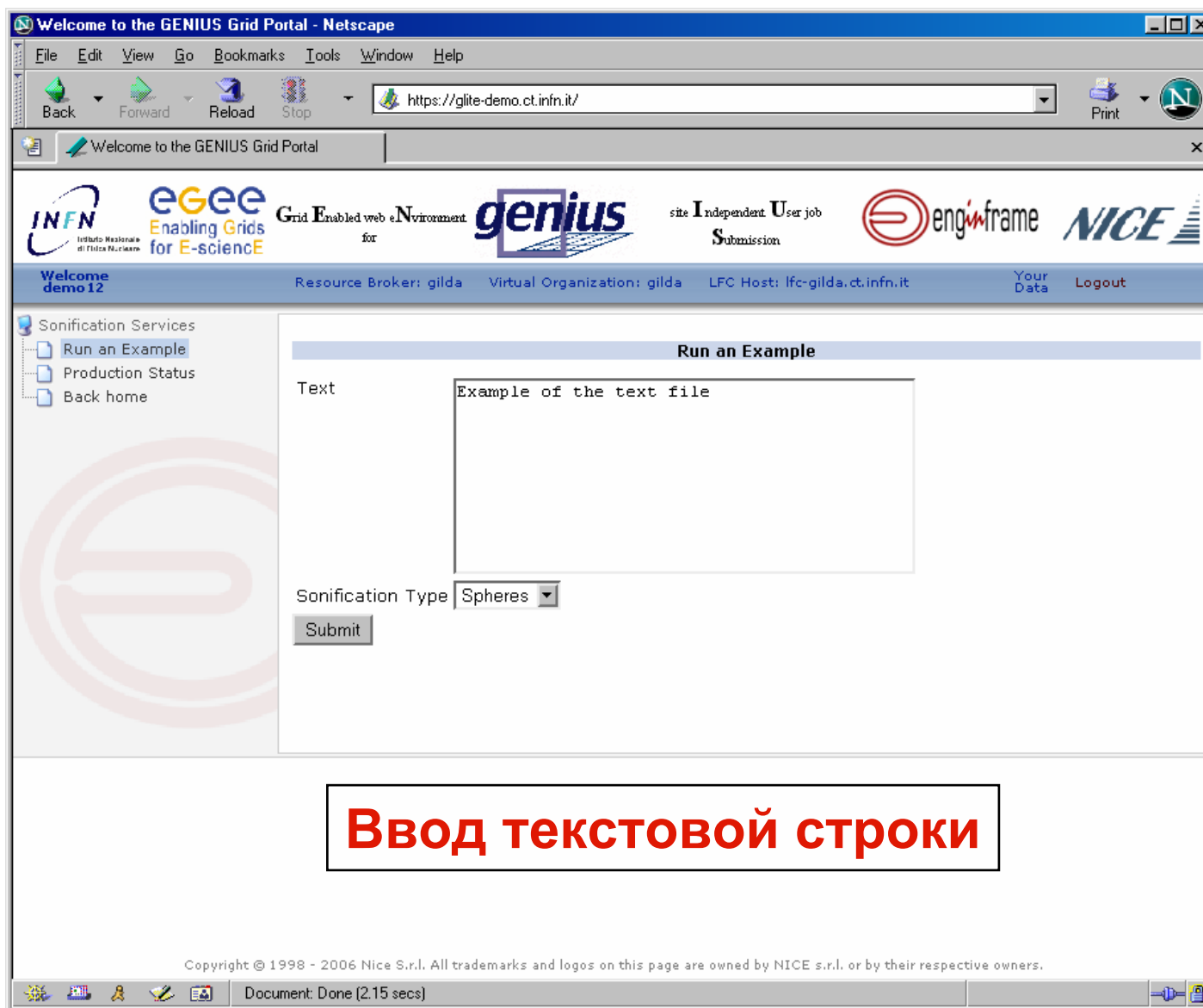
The main content area is titled "Navigate Catalog" and contains the text: "With this service you can navigate the Catalog of your Virtual Organization". Below this is a large empty box labeled "Selected files on Catalog". To the right of this box are buttons for "Select...", "Clean", "Download & View", and "Show Details".

A smaller window titled "/grid/gilda/training - Netscape" is open in the foreground, showing a file browser interface. It displays a list of folders: CERN05, cern01, cern02, cern03, cern04, cern06, cern07, cern08, cern09, cern10, cern11, edinburgh02, edinburgh03, edinburgh04, edinburgh06, edinburgh07, edinburgh20, and examples. The path is set to "/grid/gilda/training".

At the bottom of the browser window, there is a 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." and a status bar showing "Document: Done [1.04 secs]".

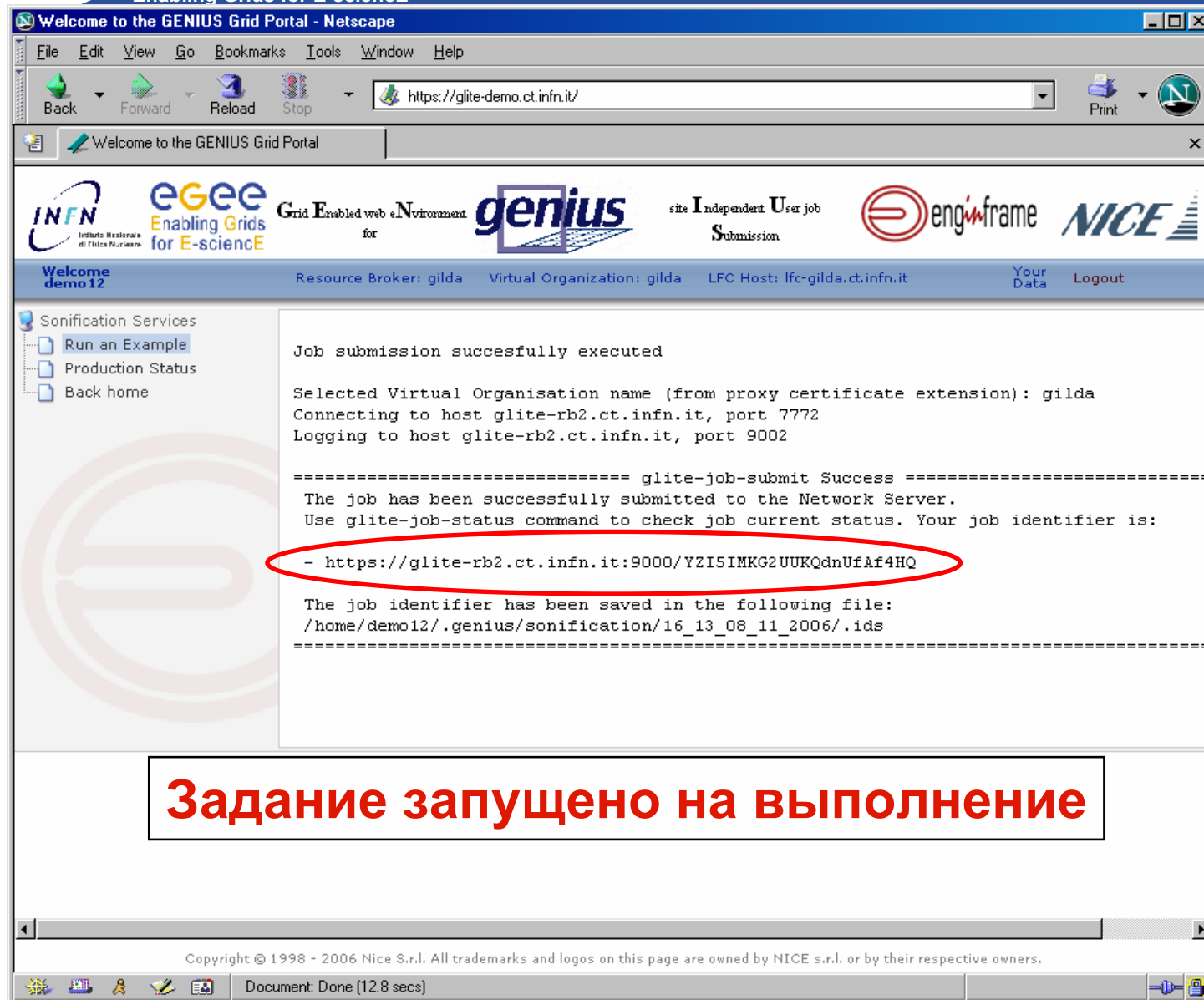


Выбор типа преобразования



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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

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

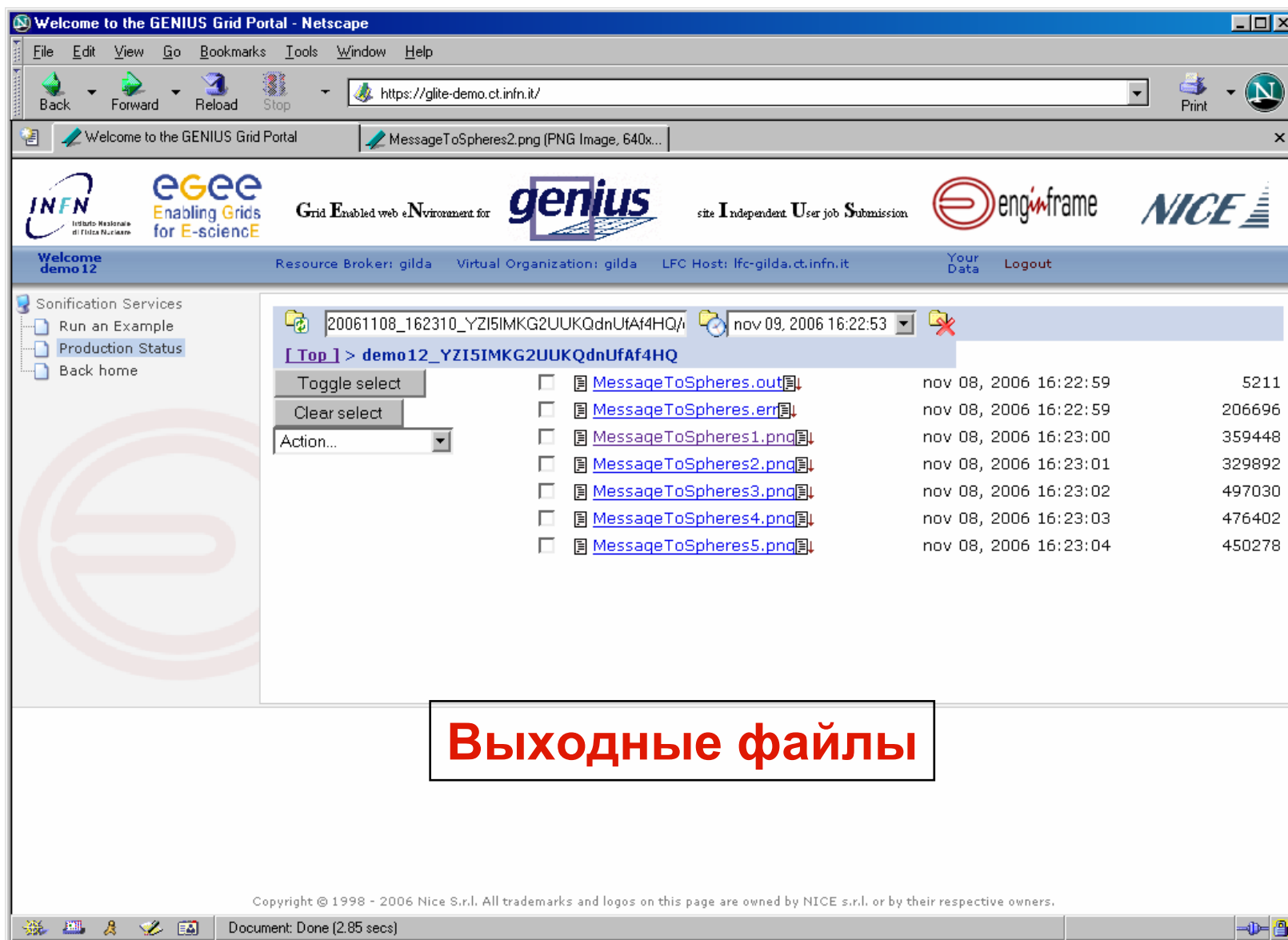
- Run an Example
- Production Status
- Back home

Job Queue					
#	Globus JobID	Last Update Time	Status	Destination	Exit Code
5	YZI5IMKG2UUKQdnUfAf4HQ	2006 Nov 8 16:13	Done	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short	0
4	1694IFgTgR6sNQBHYytwpw	2006 Sep 22 16:38	Done	gildace01.roma3.infn.it:2119/jobmanager-lcgpbs-short	
3	rHTTlzqWQGQbDjZmAzQVvXA	2006 Sep 22 16:25	Cleared	trigrd-ce00.unime.it:2119/jobmanager-lcgpbs-short	
2	4NwGoglc_trUOgyuZ7DwJg	2006 Sep 22 16:23	Aborted	grid010.ct.infn.it:2119/jobmanager-lcgpbs-short	
1	UX2AozCvOt1EoEljXPrnJw	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

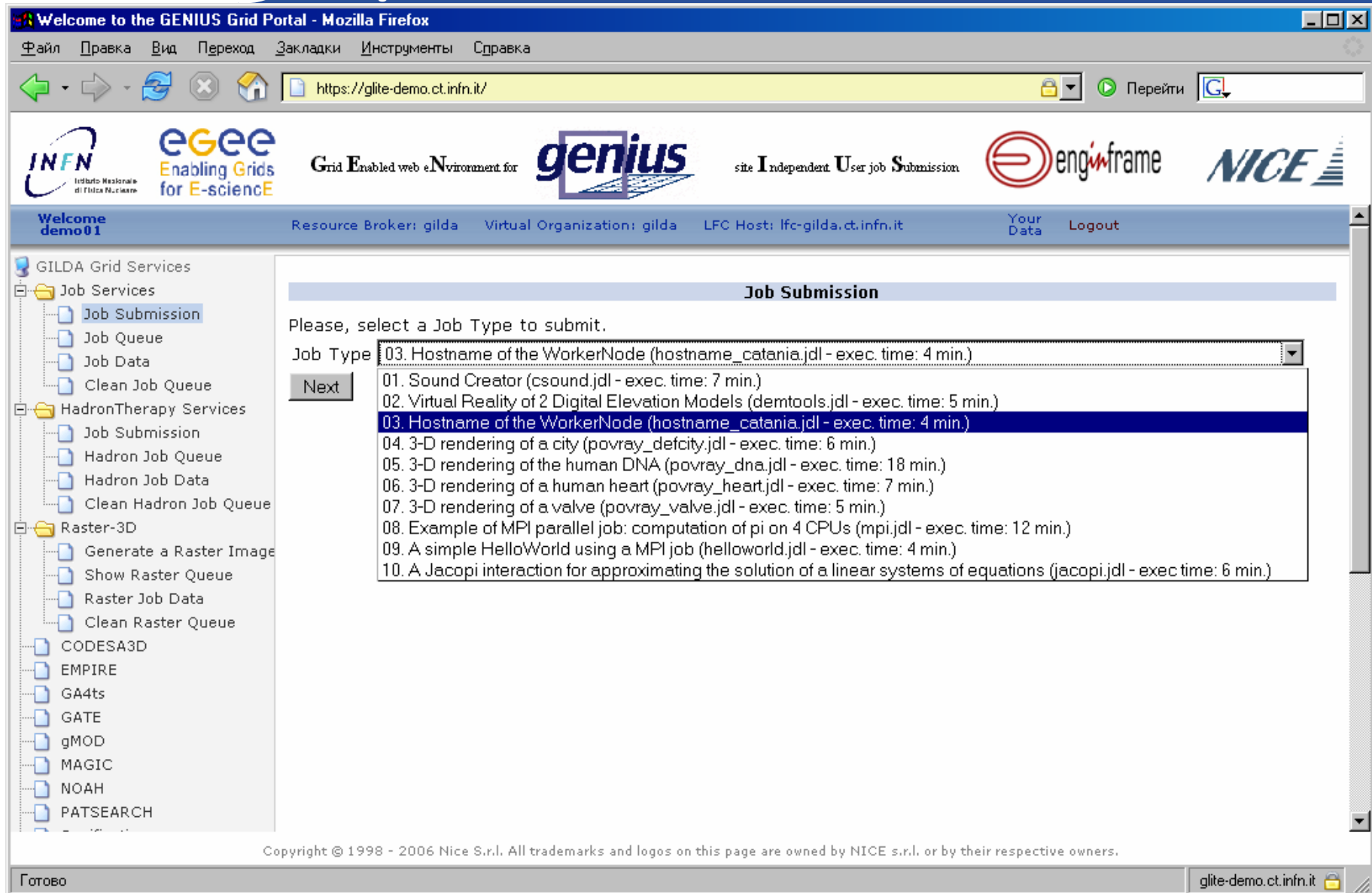
File Name	Timestamp	Size
MessageToSpheres.out	nov 08, 2006 16:22:59	5211
MessageToSpheres.err	nov 08, 2006 16:22:59	206696
MessageToSpheres1.png	nov 08, 2006 16:23:00	359448
MessageToSpheres2.png	nov 08, 2006 16:23:01	329892
MessageToSpheres3.png	nov 08, 2006 16:23:02	497030
MessageToSpheres4.png	nov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

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Document: Done (2.85 secs)

Выходные файлы










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

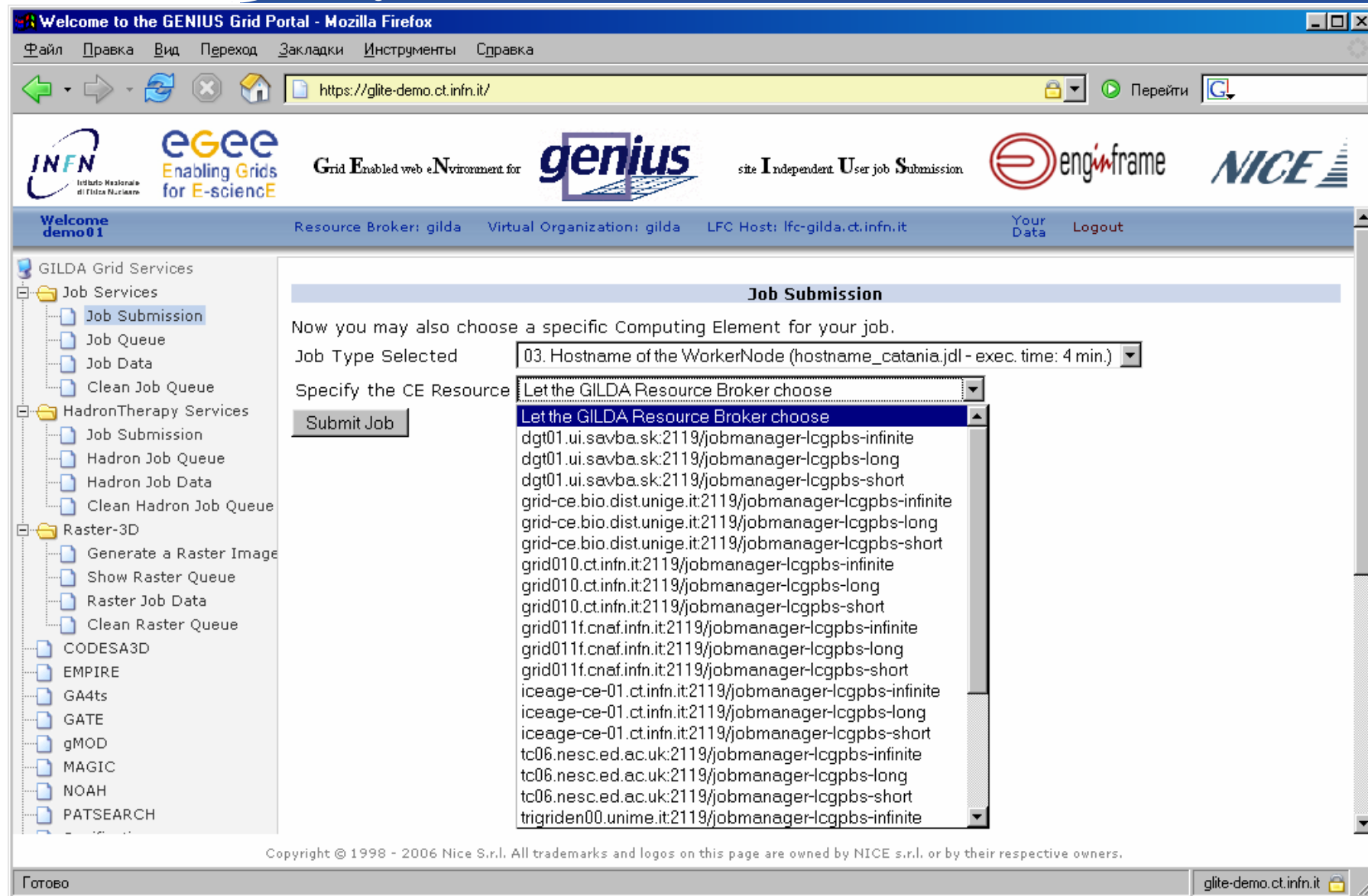
Please, select a Job Type to submit.

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

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

- 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.

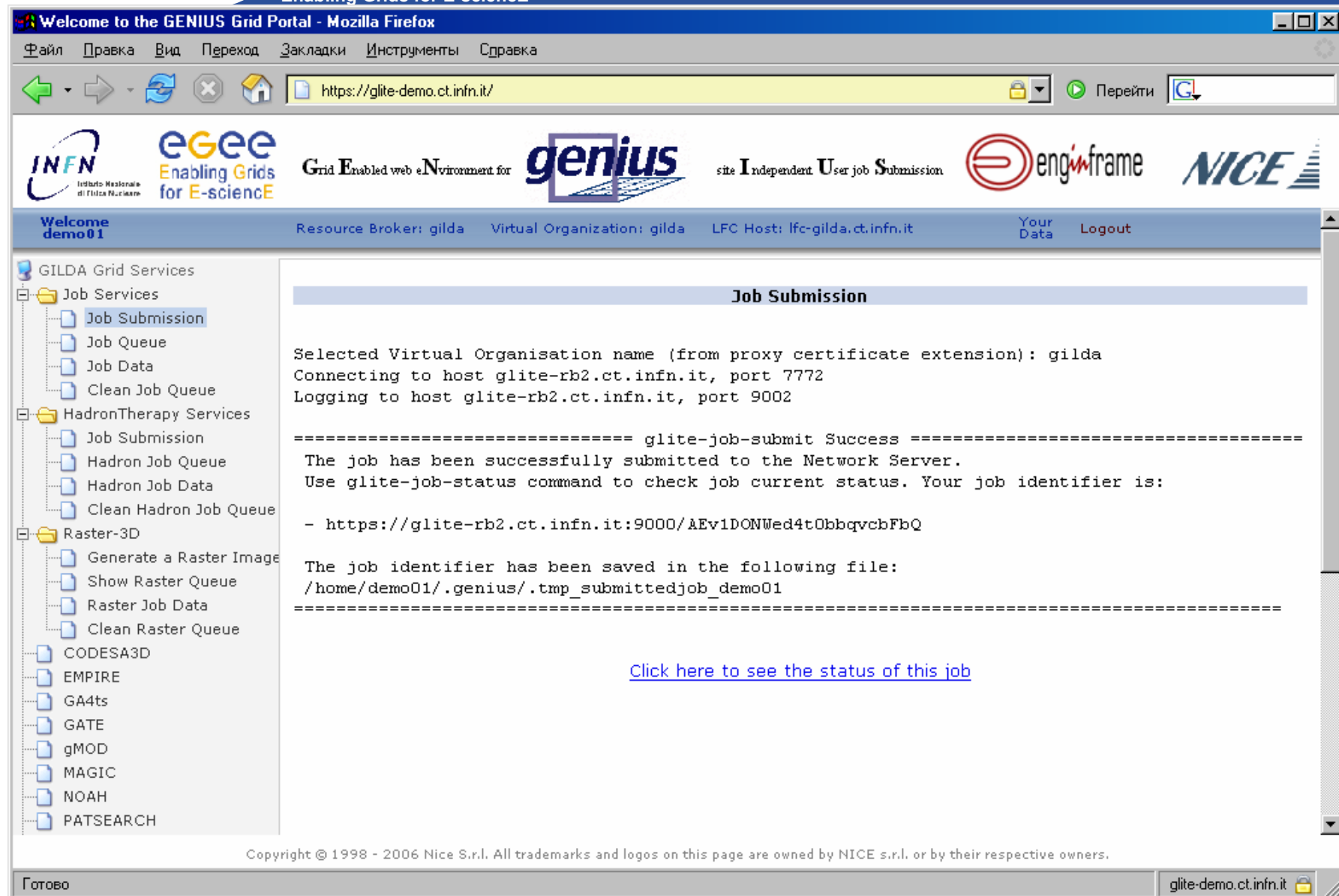
Job Type Selected: 03. Hostname of the WorkerNode (hostname_catania.jdl - exec. time: 4 min.)

Specify the CE Resource: Let the GILDA Resource Broker choose

- 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, along with the text "Grid Enabled web eNvironment for site Independent User job Submission".

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 link: [Click here to see the status of this job](#)

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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/







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	AEv1DONWed4t0bbqvcbFbQ	2006 Nov 7 14:52	Running	tc06.nesc.ed.ac.uk:2119/jobmanager-lcgpbs-short		hostname_catania.jdl

Details

Submission:

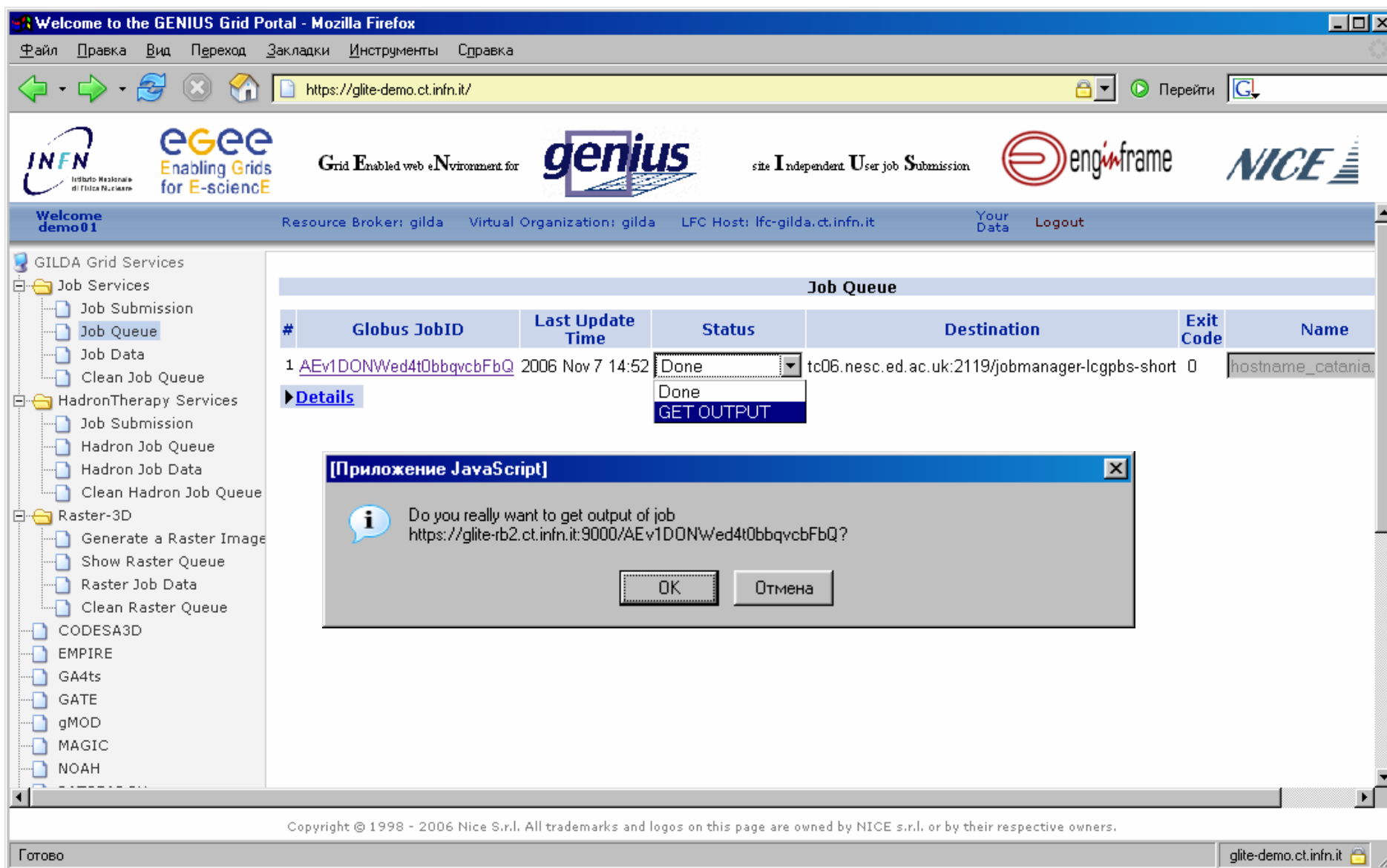
- Job manager: genius
- Time: 2006 Nov 7 14:52
- Host:
- Directory:

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

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- GATE
- gMOD
- MAGIC
- NOAH

Job Queue

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

[Details](#)

GET OUTPUT

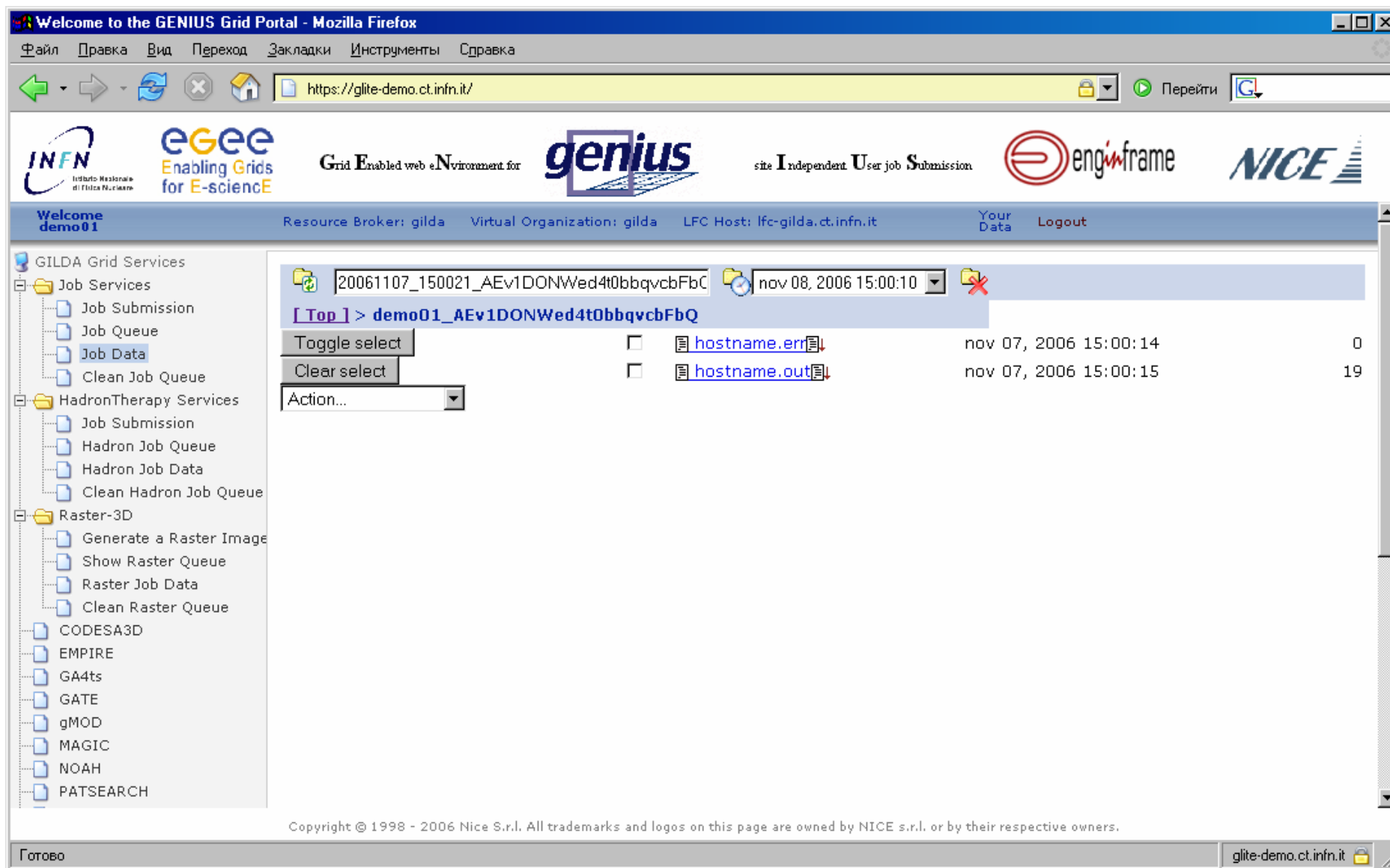
[[Приложение JavaScript]]

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



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

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- GA4ts
- GATE
- gMOD
- MAGIC
- NOAH
- PATSEARCH

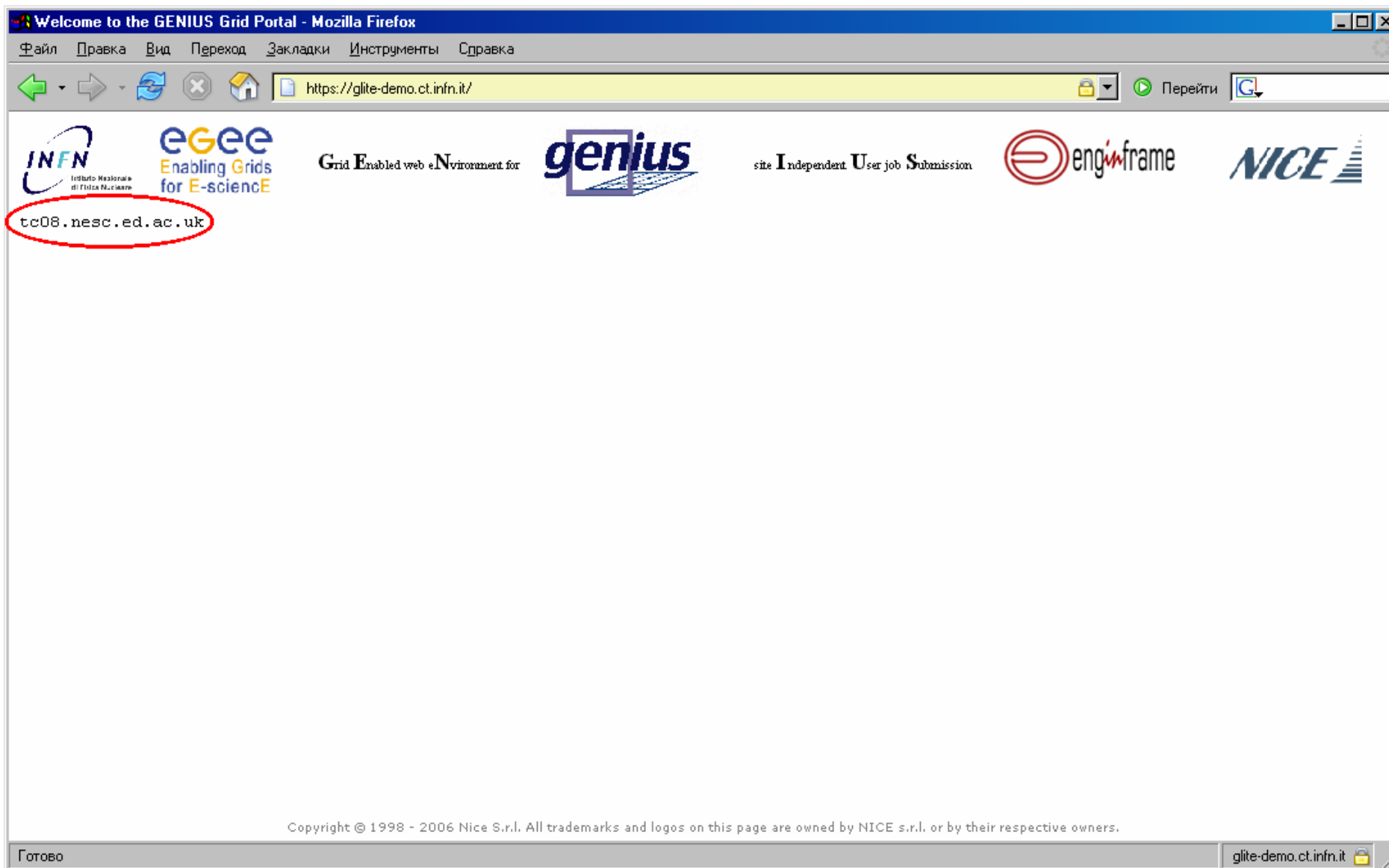
20061107_150021_AEv1DONWed4t0bbqvcbFbC nov 08, 2006 15:00:10

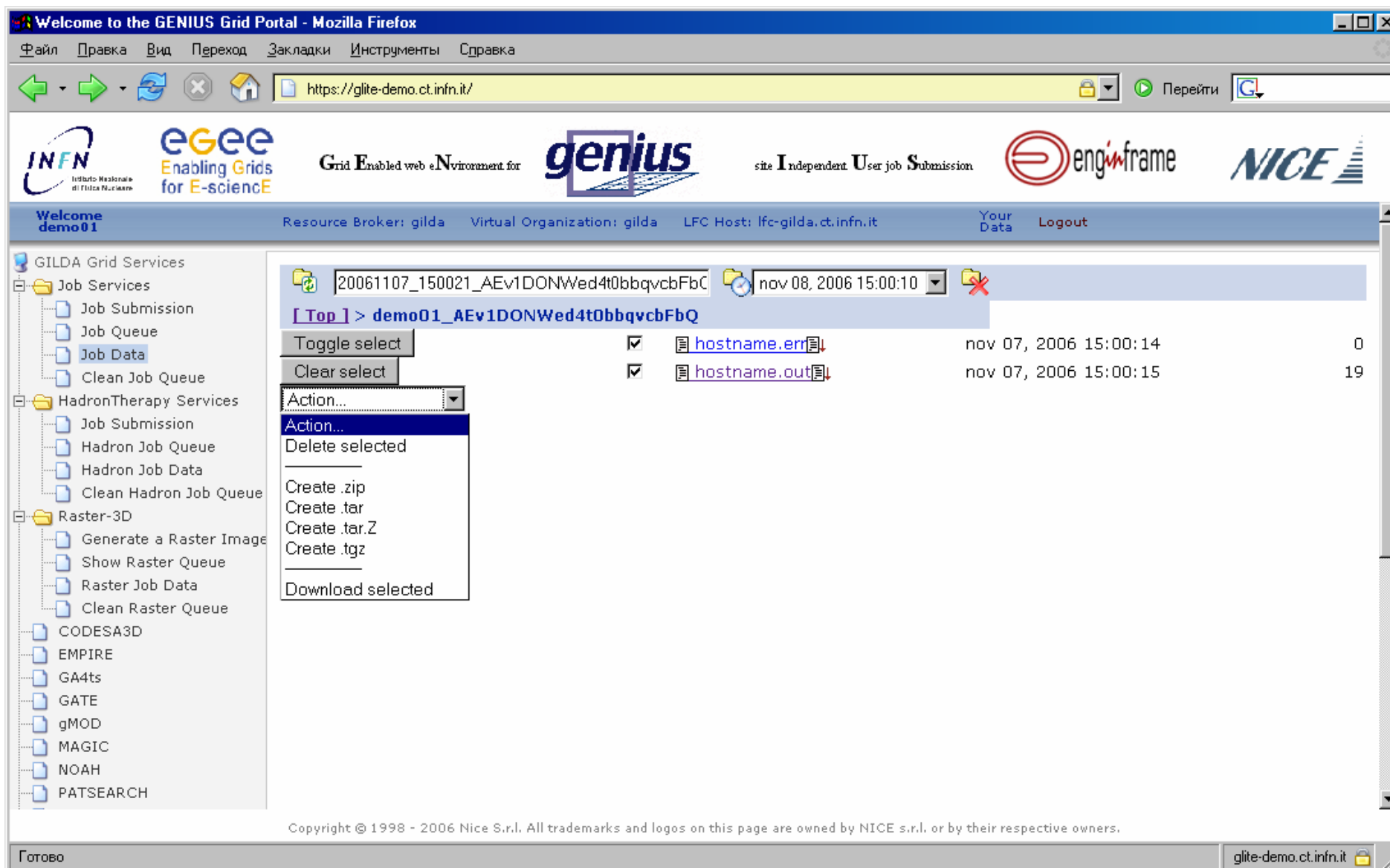
[\[Top \]](#) > demo01_AEv1DONWed4t0bbqvcbFbQ

<input type="checkbox"/>	hostname.err	nov 07, 2006 15:00:14	0
<input type="checkbox"/>	hostname.out	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 "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 circle highlights the URL "tc08.nesc.ed.ac.uk" in the top left corner of the page content. At the bottom of the browser window, there is a 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 "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/

INFN Istituto Nazionale di Fisica Nucleare
 eGee Enabling Grids for E-science
 Grid Enabled web eNvironment for **genius**
 site Independent User job Submission
 enginframe
 NICE

Welcome demo01
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 MAGIC
 NOAH
 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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Готово glite-demo.ct.infn.it