



Enabling Grids for E-science

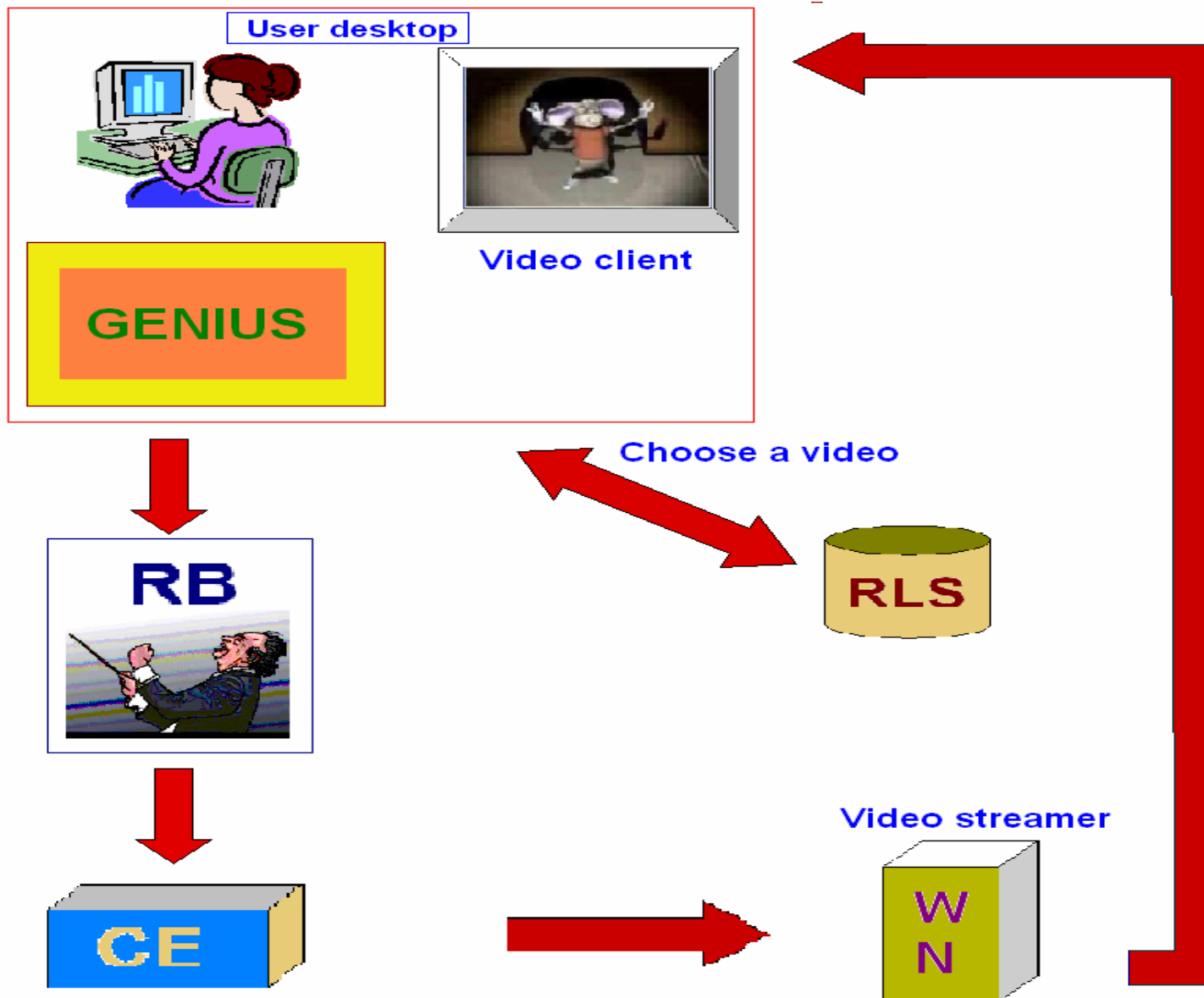
Video-on-demand demo

*Roberto Barbera, Univ. of Catania and INFN
EGEE 2nd Conference, The Hague, 22-26.11.2004
Demo Session, 24.11.2004*

www.eu-egee.org

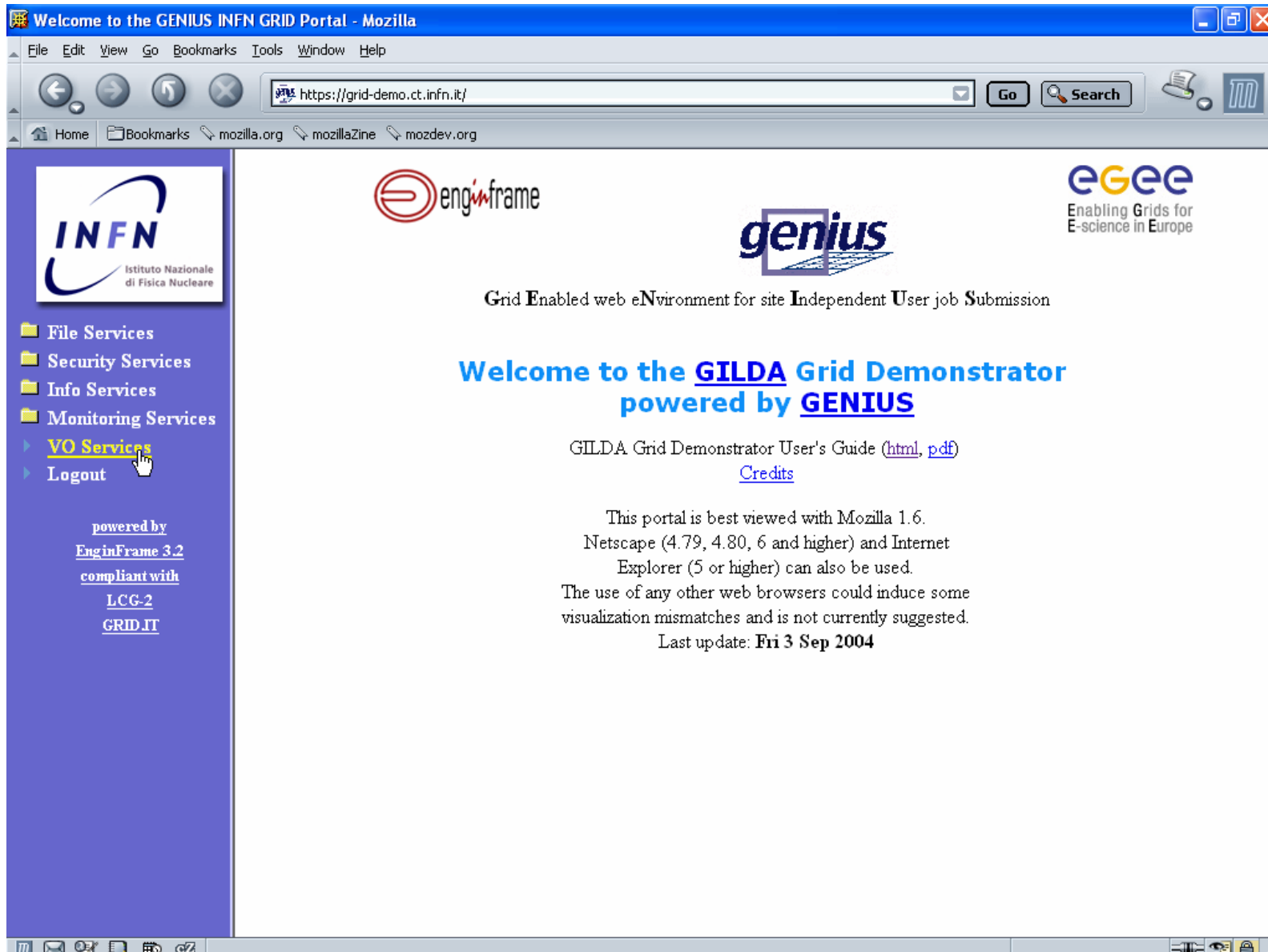


- **Goal of the use-case:**
 - create a real video-on-demand application using the LCG/EGEE middleware
 - make it in a way that it could have large adoption
- **Used testbed: GILDA**



- ★ **VLC (initially VideoLAN Client)** is a highly portable multimedia player for various audio and video formats (MPEG-1, MPEG-2, MPEG-4, DivX, mp3, ...) as well as DVDs, VCDs, and various streaming protocols. It can also be used as a server to stream in unicast or multicast in IPv4 or IPv6 on a high-bandwidth network.
- ★ VLC media player is a cross-platform media player and server. It works under Linux, Windows, Mac OS X, BeOS, BSD, Solaris, Familiar Linux and QNX.
- ★ Last release: **VLC.0.7.2** installed on all GILDA sites
- ★ More information about the VideoLAN streaming solution can be found in the streaming section <http://www.videolan.org/>.





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enginframe

genius

EGEE
Enabling Grids for E-science in Europe

Grid Enabled web eNvironment for site Independent User job Submission

Welcome to the GILDA Grid Demonstrator powered by GENIUS

GILDA Grid Demonstrator User's Guide ([html](#), [pdf](#))
[Credits](#)

This portal is best viewed with Mozilla 1.6.
Netscape (4.79, 4.80, 6 and 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.
Last update: **Fri 3 Sep 2004**

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Video on Demand

- up
- ▶ [Request a Video](#)
- ▶ Video Queue
- ▶ Clean Video Queue

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Welcome to GILDA Services




GRID INFN LABORATORY for DISSEMINATION ACTIVITIES

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RB: gilda
VO: gilda
RLS: GILDA
Logout

Please, select a Video to stream.

Video Type

- 01. EDG History (waiting time 3min. video time 7min.)
- 02. The Alien Sound - I will survive (waiting time 2min. video time 1min.)
- 03. The Mouse - You sexy thing (waiting time 2min. video time 2min.)
- 04. The Pete - Can't get enough of your love (waiting time 2min. video time 1min.)
- 05. The Pete - Wanna be startin' somethin' (waiting time 2min. video time 1min.)
- 06. dts-experience.vob (waiting time 2min. video time 2min.)
- 07. dolby-rain.vob (waiting time 2min. video time 1min.)



The screenshot shows a web browser window displaying the GENIUS interface. The browser's address bar shows a URL starting with 'http://www.genius...'. The page features logos for 'enginframe', 'genius', and 'EGEE'. A navigation menu includes 'Home', 'About', 'Contact', 'FAQ', 'Help', 'Privacy', 'Terms', and 'Feedback'. A sidebar on the left contains 'Video on Demand' options: 'up', 'Request a Video', 'Video Queue', and 'Clean Video Queue'. Below the sidebar, it says 'powered by Enginframe 3.2' and 'powered with LCG 2 CRUI-IT'. The main content area has a header 'God Enabled web eNvironment for the Independent User Job Submission' and a 'Job Queue' table. A 'W.C. media player' window is overlaid on the page, showing a cartoon character with large ears and a red shirt, standing with arms raised.

ID: glda	VO: glda	RLS: GILDA	Your Data	Logout			
Job Queue							
#	Job ID	JDL Name	Last Update	Destination	Status	Exit Code	Action
1	144-SVE-48x3-NSI-85A	AccountInfoSubmission.rdl	Wed Jun 23 17:25:2 2004	grid010.ct.ac.uk:21196/jobmanager-gilga-eRex	Running		Cancel

- **Video-on-demand on grid opens the future to many applications:**
 - e-Learning
 - distance self-teaching
 - ubiquitous/transparent digital media access/sharing
 - commercial exploitation:
 - pro's from the user point of view
 - *certificates+web interface allow access from everywhere and by "everything" (desktop, laptop, PDA, ...)*
 - *no decoders or any other equipments required*
 - pro's from the provider point of view
 - *certificates can be issued for 2 hours (the time of a movie), 1 day, 1 week, 1 month,*
 - *certificates can be easily revoked in case of abuse*
 - *no decoders or any other equipments required, so no possibility to clone or modify cards*
 - *media files are "unicasted": no problems of unauthorized access*