



EGI-InSPIRE

TRAINING WEB SITE

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Abstract

The EGEE training support services have been migrated from the EGEE web site to the EGI.eu web site. In order to support this process, and to make the services robust to expected short-term modifications to the EGI web site, the front-ends for the services have been minimally re-factored during the migration process.



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II. DELIVERY SLIP

	Name	Partner/Activity	Date
From	Dr. David Fergusson	UEDIN/NA3	27/07/2010
Reviewed by	Moderator: Steven Newhouse Reviewers: Roberto Barbera	EGI.eu IGI	08/07/2010
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IV. APPLICATION AREA

This document is a formal deliverable for the European Commission, applicable to all members of the EGI-InSPIRE project, beneficiaries and Joint Research Unit members, as well as its collaborating projects.



V. DOCUMENT AMENDMENT PROCEDURE

Amendments, comments and suggestions should be sent to the authors. The procedures documented in the EGI-InSPIRE “Document Management Procedure” will be followed:
<https://wiki.egi.eu/wiki/Procedures>



VI. TERMINOLOGY

A complete project glossary is provided at the following page: <http://www.egi.eu/results/glossary/>.



VII. PROJECT SUMMARY

To support science and innovation, a lasting operational model for e-Science is needed – both for coordinating the infrastructure and for delivering integrated services that cross national borders.

The EGI-InSPIRE project will support the transition from a project-based system to a sustainable pan-European e-Infrastructure, by supporting ‘grids’ of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI-InSPIRE will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example within the ESFRI projects. Additional support will also be given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

The objectives of the project are:

1. The continued operation and expansion of today’s production infrastructure by transitioning to a governance model and operational infrastructure that can be increasingly sustained outside of specific project funding.
2. The continued support of researchers within Europe and their international collaborators that are using the current production infrastructure.
3. The support for current heavy users of the infrastructure in earth science, astronomy and astrophysics, fusion, computational chemistry and materials science technology, life sciences and high energy physics as they move to sustainable support models for their own communities.
4. Interfaces that expand access to new user communities including new potential heavy users of the infrastructure from the ESFRI projects.
5. Mechanisms to integrate existing infrastructure providers in Europe and around the world into the production infrastructure, so as to provide transparent access to all authorised users.
6. Establish processes and procedures to allow the integration of new DCI technologies (e.g. clouds, volunteer desktop grids) and heterogeneous resources (e.g. HTC and HPC) into a seamless production infrastructure as they mature and demonstrate value to the EGI community.

The EGI community is a federation of independent national and community resource providers, whose resources support specific research communities and international collaborators both within Europe and worldwide. EGI.eu, coordinator of EGI-InSPIRE, brings together partner institutions established within the community to provide a set of essential human and technical services that enable secure integrated access to distributed resources on behalf of the community.



The production infrastructure supports Virtual Research Communities (VRCs) – structured international user communities – that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.

VIII. EXECUTIVE SUMMARY

The EGEE training support services (a registry of training services, trainers' registry, and calendar of training events) have been migrated from the EGEE web site to the EGI.eu web site. In order to support this process, and to make the services robust to the expected short term modifications needed to integrate them into the EGI.eu web site, the front-ends for the services have been minimally re-factored during the migration process.



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1 INTRODUCTION

This document describes the migration of training support services into the EGI.eu web site.

2 FORSEEN WORK

2.1 *Web site training services*

The EGEE web site hosted a number of services aimed at supporting cooperation between trainers in different localities these included:

1. Training events list: This allows trainers to advertise their training events and to be made aware of other training events being run within the community. It also provides potential attendees with information about events within their local area and globally.
2. Training Materials: This repository provides access to a digital library which holds all forms of training related materials. This acts as a resource allowing trainers to share, find and re-purpose materials
3. Trainers information: This holds information about trainers across the EGI area. Allowing trainers to contact each other and solicit expertise to help support their training activities.

At the start of the EGI-InSPIRE project these services were migrated to the EGI.eu web domain, providing the same functionality as they did under EGEE.

2.2 *Migration of user interfaces*

As these training services have been built as loosely coupled user interfaces (clients) and data sources (servers) the main work carried out was on migrating the user interfaces. The servers provide feeds in a number of formats and support a number of different searches. Some modification of the front-ends of the services was required in order to change branding from EGEE to EGI.eu and to integrate the services into the EGI.eu web site, as the site structure is slightly different.

As the services have grown organically over the 6 years of the three EGEE projects there was some build-up of legacy code and structures within the existing front-ends. In order to allow the migration to proceed some degree of re-factoring of the front-ends was required to streamline the code. This focussed on modularising the components (to improve re-use and consistency within the code) and concurrently separation of the data and presentation components of the code. This was necessary to avoid issues with the propagation of the re-branding within the site and to some degree resulted from the build-up of succeeding EGEE styling revisions (CSS sheets) in the past.

During the gathering of requirements for the migration it also became clear that the whole EGI.eu web site is likely to undergo further re-branding in the short term (3 – 6 months). It was therefore important to make sure that during the migration process the migrated code was modularised to allow a simplification of the expected future re-branding activity.

2.3 *Architecture Revisions*

The following architectural revisions were made resulting in the system architecture shown in Figure 1:

- Removal of the inline database queries and styling from the old site code.
- Removal of the table based layouts from the old site code
- The site still uses the existing database tables from previous projects to ensure there is no loss of data. Any updates to the old sites should filter through to the new EGI.eu site.

The internal structure of the web application was separated into:

1. Theme folder: theme specific images and libraries (CSS, Javascript etc.).
2. Global includes: config, default files: CSS, Javascript, images, global library of reusable server side functions (components)
3. Sub folders to contain imported code or imported frameworks that can be upgraded independently, e.g. Trainer sections and Digital library front-end.

2.3.1 Modularisation

The migration has resulted in the following modularisation activities:

1. A library of reusable server side functions (components) have been created that can return raw data, be it database queries, validation objects or web services without any formatting.
2. Forms and other smaller web page components have been moved to a generic includes folder so they can be managed in a container that is not styled and can be reused across the site where needed.
3. A single config file has been created to hold site wide variables such as contact emails, web developer email, site theme (skin) and references to relevant databases. This is included in ColdFusion's Application.cfc file which is a global handler anyway but having this should make it easier for someone who is not a ColdFusion programmer to set or, more importantly, change simple global variables without in depth technical knowledge.

2.3.2 Implementation

The migration has resulted in the following implementation changes:

1. A new front end has been created to browse training events. This is cleaner and quicker than the previous design and the validation and error handling has been greatly improved.
1. Greater use of Ajax requests to both local server and remote objects to improve performance.
2. Utilisation of the jQuery Javascript framework, extensions and UI's such as a calendar to improve usability and reduce the size and complexity of the web forms.
3. Ported relevant content from egee.nesc (events section and web forms), ICEAGE (trainer section) and Digital Library standalone front end module.

The user interfaces are all implemented as ColdFusion scripts and exported as HTML into the EGI.eu web site. The site can be accessed at: <http://training.egi.eu/>

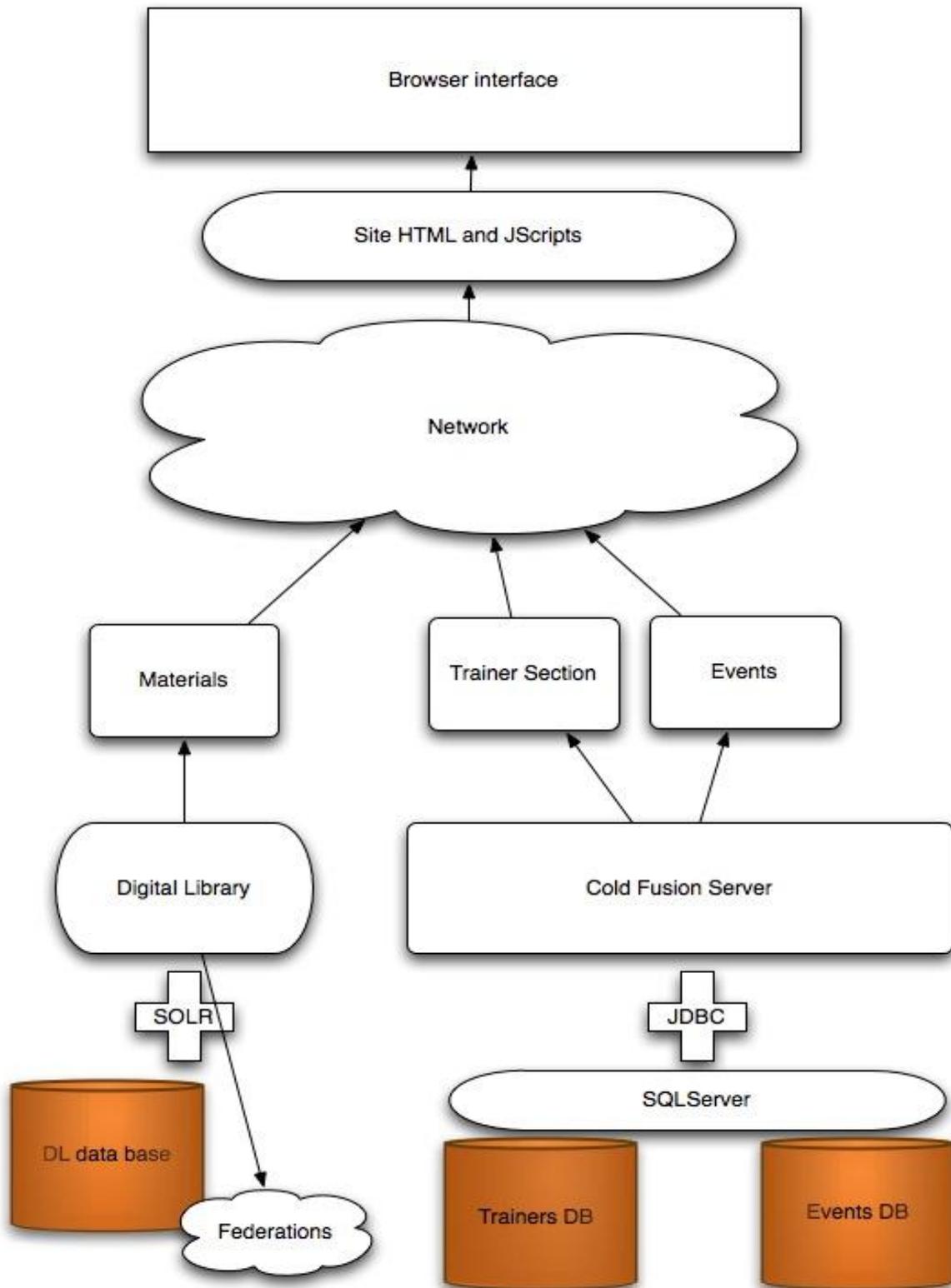


Figure 1: Training Services Architecture



2.3.3 ColdFusion 8 Application Server.

NESC invested in, and upgraded to, a new version of ColdFusion (to version 8 from 6.1) and has leveraged a number of new features of that service that improve both performance and security.

Security is improved due to form and URL validation by enhancing or rewriting existing code, and the abstraction of code to more reusable ColdFusion components (cfc's). Inline database queries and other functions have been abstracted out to ColdFusion components (cfc's) which afford an extra level of protection as they cannot be accessed directly in the browser. Reusing these components means that changes, validation and enhancements can now be affected site wide from single files. ColdFusion instantiates these components when the web Application starts and holds these in cache so there is a substantial increase in performance as well.

2.3.4 SQL Server Database.

No major change needed to the "model" in our MVC framework.



3 PORTING DIFFERENT SECTIONS OF THE WEBSITE

3.1 Digital library / Training Materials:

The digital library, located at <http://library.nesc.ed.ac.uk:8080/> runs Apache SOLR on Fedora. There is an existing front end at the above URL but that is not styled for EGI *“nor are there the resources to continually create new front ends for this service.”*

The recently created reusable, “custom” integration uses a jQuery based, minimally styled Javascript façade that can be dropped into any existing web template whilst still, asynchronously, leveraging the powerful faceted search features of SOLR.

In this instance, the created search “module” lives in its own separate directory under the web root and leverages ColdFusion to provide a web template only.

3.2 Trainers Section

The trainers section also uses a JavaScript façade (Adobe Spry in this instance) but this relies on ColdFusion’s connection to the existing SQL Server database to provide the data. It is worth mentioning here that this service was conceived and implemented in the last 12 months of the EGEE-III project has scope to be further developed and expanded as a resource to the community. Its initial implementation was under an ICEAGE URL but the database is held separately within a “Person Registry” with which is currently underutilised. With some minor tweaking could become a very valuable resource for the future as it contains not only information about existing trainers but also, almost 800, students who have applied for, and/or attended schools, workshops and grid computing related events under ICEAGE and EGEE projects.

3.3 Events

Of all the sections this has taken the most work to port over even though the resulting “façade” may “seem” very similar to previous incarnations. The main work was that inline database queries and functions be abstracted to, site wide, reusable components, e.g. a reusable, simple function like: `getEvents` (arguments).

The old mixture of table based and subsequent CSS based, page layouts has all been integrated and replaced with CSS based equivalents. This will allow easier, global restyling and separates the presentation layer and business layer to allow easier integration future projects.

As a result the web pages have been broken down into reusable components that do not require full page styling to exist. For example, web forms (including validation), menus/ site navigation, global variables (project ID, project name, contact details etc...) are all extracted into single, reusable instances. This has nothing against previous developers practices, merely a reflection of current trends, and continuing practice with any well maintained system, towards building and extending web applications with the most modular and reusable architecture available.

An example that highlights the above would be the “Add an Event Page” (`addEvent.cfm`) which on the previous EGEE site was spread across three different web pages and involved well over 1,500 lines of code. The current incarnation, employing the features outlined above namely:

- ColdFusion 8 enhancements,
- abstraction of functions,
- separating logic and



- separating presentation

has reduced this to a single page of only 260 lines of code which can easily be restyled or redeployed.

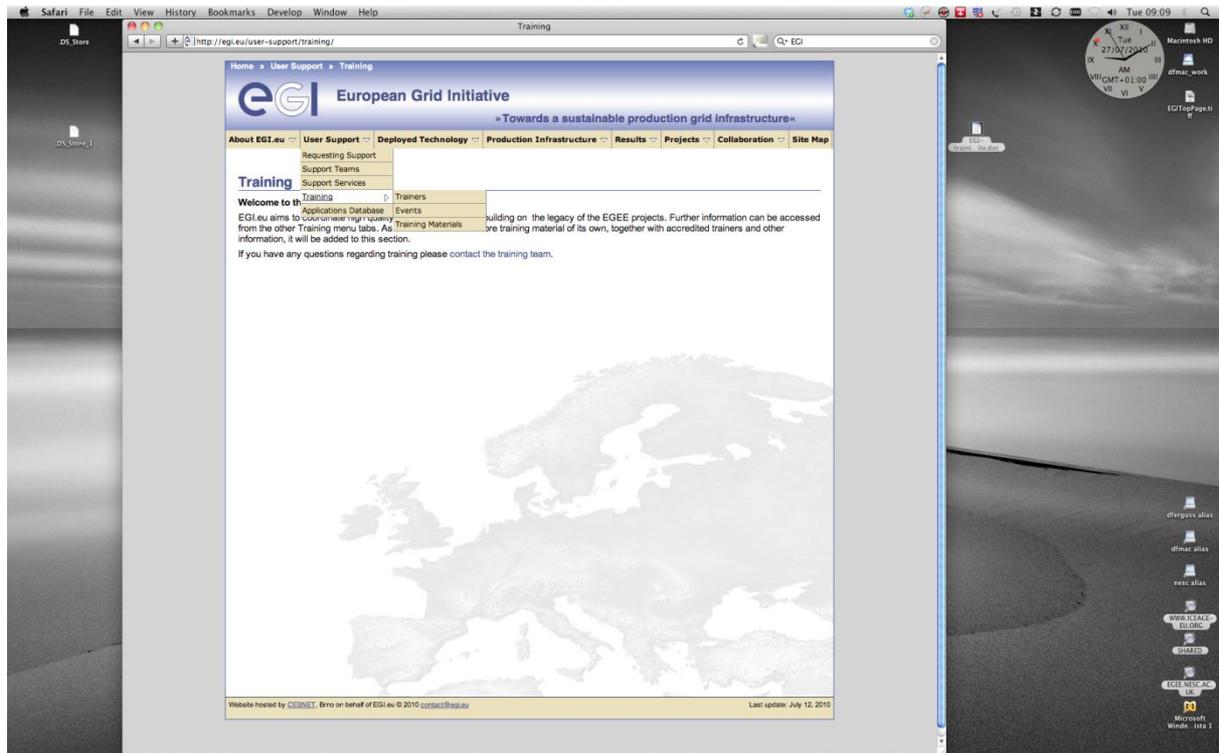
Finally, it would appear that Adobe seems to be actively moving ColdFusion more and more into the Service Layer of the web application tier making it a valuable resource for multiple front ends, both locally and remotely. As an ongoing resource and with such a valuable data source, the training section could benefit from further investment to support and enhance these features as an ongoing concern.



4 EGI TRAINING WEB SITE INTERFACE

The various training support services are accessible through a menu structure from the top menu bar of the EGI.eu site See Figure 1 below.

Figure 1 Training Web site menu structure



4.1 Training Events

The Training events service is accessible at: <http://training.egi.eu/index.cfm>

The event data is held in a SQLServer database and accessed through ColdFusion SQL queries. All events are moderated before being made visible to the public.

The events are presented as a reverse chronology (most recent first) browse-able list. A search facility allowing search by title or date is also available. See Figure 2.

Figure 2 Training Event listing

Home » Training

EGI European Grid Initiative
» Towards a sustainable production grid infrastructure«

[About EGI.eu](#) ▾
 [User Support](#) ▾
 [Deployed Technology](#) ▾
 [Production Infrastructure](#) ▾
 [Results](#) ▾
 [Projects](#) ▾
 [Collaboration](#) ▾
 [Site Map](#)

EGI Training Events

Event Title Start Date End Date Results Per page

Results page: 1 2 3 4 ▶▶

No	Title	Location	Dates	Summary/Registration
1.	GRID DAYS	Bucharest, Romania	20 April, 2010	
2.	1st ILC gLite Training Course	Tsukuba, Japan	20 - 22 April, 2010	Summary
3.	Introduction to gLite	Uppsala, Sweden	15 April, 2010	
4.	Introduction to PL-Grid infrastructure	Poznan, Poland	15 April, 2010	Summary
5.	Rendering service for Photorealistic 3D design on grid infrastructure	Zagreb, Croatia	14 April, 2010	
6.	EGEE Grid Training at MI SANU	Belgrade, Serbia	9 April, 2010	
7.	Introduction to grid computing	Zagreb, Croatia	8 - 9 April, 2010	Summary
8.	Introduction to cluster computing	Zagreb, Croatia	7 April, 2010	Summary
9.	Grid5000 School	Lille, France	6 - 9 April, 2010	
10.	TR-Grid User Training for Specific Local Communities	Ankara, Turkey	5 - 9 April, 2010	Summary
11.	gLite training at ICM	Warsaw, Poland	26 March, 2010	Summary
12.	Basic grid tutorial	Budapest, Hungary	26 - 28 March, 2010	
13.	IPNO Training - Use training on grid Computing	Orsay, France	25 - 26 March	Summary

4.2 Training Materials

EGI Training materials site is available at: <http://training.egi.eu/material/index.cfm>. The training materials data is held in a Fedora (<http://www.fedora-commons.org/>) based digital library. Fedora is a well adopted open source standard digital library implementation. Further details of the library structure and implementation can be found in EGEE and ICEAGE project deliverables.

The training materials in the EGI training web site are presented as a browse-able list with a free text search facility, which can search within all documents held, a tag cloud of the types of materials held (video, audio, slides, etc.) and a tag cloud of the subjects of records in the library. See Figure 3.

Figure 3 Training materials list

Home » Training

EGI European Grid Initiative
»Towards a sustainable production grid infrastructure«

[About EGI.eu](#) ▾
 [User Support](#) ▾
 [Deployed Technology](#) ▾
 [Production Infrastructure](#) ▾
 [Results](#) ▾
 [Projects](#) ▾
 [Collaboration](#) ▾
 [Site Map](#)

Browse the Digital Library of Training Material

> >> displaying 1 to 10 of 9021

Current Selection
Viewing all documents!

Search
(press ESC to close suggestions)

Type

[annotation](#)
[article](#)
[assessment](#)
[audio](#)
[blog](#)
[book](#)
[ca](#)
[code](#)
[exemplar](#)
[collection](#)
[course](#)
[event](#)
[exercise](#)
[handbook/manual](#)
[image](#)
[manual](#)
[module](#)
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[pollresults](#)
[presentation](#)
[report](#)
[rss](#)
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[egee conference](#)
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CDDL Configuration Description Language

Info: J. Tatemura (author) 2007-01-12

Successful realization of the Grid vision of a broadly applicable and adopted framework for distributed system integration, virtualization, and management requires the support for configuring Grid services, their deployment, and managing their lifecycle. A major part of this framework is a language in which to describe the components and systems that are required. This document, produced by the CDDL working group within the Open Grid Forum (OGF), provides a definition of the XML-based configuration description language and its requirements.

<http://www.ogf.org/documents/GFD.85.pdf>

Report for the GGF 15 Community Activity: Leveraging Site Infrastructure for Multi-Site Grids

Info: Von Welch (author) 2007-01-18

This document summarizes the Community Activity "Leveraging Site Infrastructure for Multi-Site Grids" held at GGF 15 on October 3rd in Boston.

<http://www.ogf.org/documents/GFD.89.pdf>

OGSA Basic Security Profile 1.0 – Core

Info: T. Mori (author) F. Siebenlist (author) 2007-01-12

The growing number of Web services specifications makes it important to understand and define the interaction and use of these specifications to ensure interoperability. In the wider technical domain of distributed system management and grid computing, the OGSA WSRF Basic Profile 1.0 [OGSA WSRF Basic Profile] provides the first normative profile, addressing issues regarding the addressing, modeling and management of WS-Resources, but it does

4.3 Trainers Information

The EGI Trainers information site is available at: <http://training.egi.eu/trainers/index.cfm>. The accreditation procedure is outlined in the EGI document at: <https://documents.egi.eu/secure/ShowDocument?docid=116>

The trainers data is held in a SQLServer database and accessed through ColdFusion SQL queries

The trainer information is derived from the trainer certification process of EGEE 3. The information is presented as a browse-able list with a free text search facility. See Figure 4. For each trainer there is also a drill-down facility to allow more information to be accessed. See Figure 5.



Figure 4 Trainer information list

Home » Training

EGI European Grid Initiative
»Towards a sustainable production grid infrastructure«

[About EGI.eu](#) ▾ [User Support](#) ▾ [Deployed Technology](#) ▾ [Production Infrastructure](#) ▾ [Results](#) ▾ [Projects](#) ▾ [Collaboration](#) ▾ [Site Map](#)

Trainers

Quick search: (searches in the same order as the columns)

Name (sort)	Country (sort)	Specialist Technologies (sort)	View Trainer
SIPOS, Gergely (Mr.)	Netherlands	gLite,p-GRADE	Show Trainer
MCCONNELL, Robin (Mr)	United Kingdom	gLite	Show Trainer
KATSIFODIMOS, Asterios (Mr.)	Cyprus	gLite	Show Trainer
ASIKI, Athanasia (PhD Candidate)			Show Trainer
GKAMAS, Vasileios (Mr)	Greece	gLite	Show Trainer
POP, Florin (Mr.)	Romania	Condor,gLite,Globus	Show Trainer
IACONO-MANNO, Marcello (Dr)			Show Trainer
LA ROCCA, Giuseppe (Dr)	Italy		Show Trainer
KOTLYAR, Victor (IHEP)	Russia	gLite	Show Trainer
GEORGATOS, Fotis (Drs)	Switzerland	gLite,Globus,ARC	Show Trainer
SCIBILIA, Fabio (Dr.)			Show Trainer
SOTIROPOULOS, Aristidis (Dr)	Greece		Show Trainer
DOBRUCKY, Miroslav (Mr.)			Show Trainer
...			Show Trainer

The list of trainers can be given in alphabetical order using the “(sort)” link. Additional work may be necessary for this option to be more obvious.

Figure 5 Example trainer information drill-down

Home » Training

EGI European Grid Initiative
» Towards a sustainable production grid infrastructure«

[About EGI.eu](#) ▾
 [User Support](#) ▾
 [Deployed Technology](#) ▾
 [Production Infrastructure](#) ▾
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 [Site Map](#)

Trainer Details

No Photo of this trainer

First Name	Gergely
Last Name	Sipos
Institution	EGI.eu
Country	Netherlands
Biography	www.lpds.sztaki.hu/~sipos
Specialised Technologies	gLite, p-GRADE

Previous Events

1. Grid systems for bioinformatics and medical research (Hungary, Szeged) Nov 2008
2. Introduction to gLite (Sweden, Uppsala) Apr 2010
3. International Summer School in Grid Computing 2009 ISSGC09 (France, Sophia Antipolis) Jul 2009
4. Joint EGEE and EDGeS Summer School on Grid Application Support (Hungary, Budapest) Jun 2009
5. International Summer School on Grid Computing (Hungary, Balatonfured) Jul 2008

4.4 Contacts and Input forms

Contact and input forms are available at: <http://training.egi.eu/contact.cfm> A web form providing an email facility to allow users to contact the EGI training activity has been provided (see Figure 6).

Figure 6 Contact Form

Home » Training

EGI European Grid Initiative
» Towards a sustainable production grid infrastructure«

[About EGI.eu](#) ▾
 [User Support](#) ▾
 [Deployed Technology](#) ▾
 [Production Infrastructure](#) ▾
 [Results](#) ▾
 [Projects](#) ▾
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Contact the training team

We welcome any suggestions and comments you may wish to make about our courses.
If you require a training course to be provided then please use the Training Requirements form.
If you are running an event and wish to add the details please use the Add a New Event form.

Please fill the form below.

Name:

Email:

Comments:

Enter Text Below:

5^NG N^A



This page has links to forms allow the input of new training requirements and to allow input of new training events can be accessed (see Figure 6).



Figure 7 Training request form

Home » Training

EGI European Grid Initiative
» Towards a sustainable production grid infrastructure«

About EGI.eu ▾ User Support ▾ Deployed Technology ▾ Production Infrastructure ▾ Results ▾ Projects ▾ Collaboration ▾ Site Map

Request a Training Course

Name, Email and Image Verification are required fields.

Name

Email

Location for course

Topic/Title of course

Level of course
Note: multiple selections may be made by holding down 'Ctrl' and left clicking with the mouse.
No Preference
Induction
User
Application Developer Training
Advanced Courses
Technical Activity Specific Retreats (Workshops)

Length of course

Possible dates

Any other comments

Enter Text Below:

7 K DS 3 9 N

Figure 7 shows the training request form. This form generates and email request to an EGI email list.





Figure 8 Training event input form

Home » Training

EGI European Grid Initiative
» Towards a sustainable production grid infrastructure«

About EGI.eu ▾ User Support ▾ Deployed Technology ▾ Production Infrastructure ▾ Results ▾ Projects ▾ Collaboration ▾ Site Map

EGI: Training Administration and Planning: Add your event

Please note that if you wish to use GILDA, then this must be booked first. Please go to https://gilda.ct.infn.it/request_tutorial/index.php to request use of the GILDA grid before you finalise dates.

To add your event to the egee events schedule please fill in the form below:

Event Title: *

Start Date: *

End Date: *

URL for Agenda Maker Page: *

Local Organisers First name: *

Local Organisers Last name: *

Local Organisers email: *

Location (Town): *

Location Country:

NeSC is offering Registration support for EGI events. If you wish NeSC to support an event you are organising with registration and a registration web page please select the appropriate option below. You will be asked to provide further information on the next page.

I would like NeSC to support my event by providing Registration and a Registration Page

No thank you I do not require support for registration. *

The training event input form (see figure 8) allows the input of new training events. These are immediately added to the SQLServer database but are not made visible in the training event list until they have been manually moderated, that is their status changed in the database.



5 CONCLUSIONS

The EGEE training support services (a registry of trainers, a calendar of training events, and a digital library of training materials) have been migrated from the EGEE web site to the EGI.eu web site. In order to support this process, and to make the services robust to expected short term modifications to the EGI.eu web site, the front-ends for the services have been minimally re-factored during the migration process.

This is the first step in establishing the training services within EGI. These services will need to be developed to meet the future requirements of the EGI user community. These developments will have to fit within the framework of the EGI User Support activity as a whole. With the EGI staff now in place and the community forming, potential developments can begin to be formulated. A key element in this process will be the gathering of requirements at the 1st EGI Technical Forum.

Immediate developments include a simple form to allow authorised personnel to moderate events, improvements in the interface to allow users to create and edit materials, and to update the look and feel of the EGI.eu web site when the design changes.