

EGEE'09 - Uniting our strengths to realise a sustainable European grid



Report of Contributions

Contribution ID: 0

Type: **not specified**

EGEE PMB

3

EGEE PMB

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Agenda to be discussed

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE only

Special requirements other than the set up mentioned in the CfA text.

20/phone conference needed

Abstract

EGEE PMB - Closed meeting

Please indicate your preferred day to give a demo.

4h (or more)

Primary author: Mr JONES, Bob (CERN)

Presenter: Mr JONES, Bob (CERN)

Contribution ID: 1

Type: **Session**

EGEE Collaboration Board (CLOSED, on invitation only)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Agenda to be confirmed.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE

Special requirements other than the set up mentioned in the CfA text.

80

Abstract

EGEE Collaboration Board

Please indicate your preferred day to give a demo.

2 hrs, Wednesday 23, mor

3

EGEE

Primary author: Mr JONES, Bob (CERN)

Presenter: Mr JONES, Bob (CERN)

Track Classification: EGEE

Contribution ID: 2

Type: **Session**

Administrative Federation Committee meeting (Closed)

Please indicate your preferred day to give a demo.

2 hrs, Tuesday 22, PM

3

EGEE

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

To be decided

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

To be decided

Primary author: Mrs COOK, Anna (CERN)

Presenter: Mrs COOK, Anna (CERN)

Track Classification: EGEE

Contribution ID: 3

Type: **Session**

SSC Workshop: Status of Preparations for EGI SSCs

Please indicate your preferred day to give a demo.

6 hours

3

EGEE NA4 (but also expect participation from ARC and UNICORE communities)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will include overview presentations on the current state of EGI and the EGI FP7 proposal. It will be followed by a set of overview presentations from the SSC coordinators (~10 presentations). It will conclude with a roundtable discussion of current problems and issues related to the formation of the SSCs and how those SSCs will interact with EGI.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4

Special requirements other than the set up mentioned in the CfA text.

60

Abstract

The European grid user community is currently organized around specific European projects and technologies. The organization of the wider grid user community will change radically with the transition from project-based grid infrastructures to the European Grid Infrastructure (EGI). Notably the scientific user communities must become strong, independent, self-supporting entities capable of coordinating the use of EGI and of safeguarding grid-related knowledge within their communities. Similarly, those providing generic support services to the full grid user community must form similar entities. The characteristics of these entities, Specialized Support Centers (SSC), have been defined in previous SSC Workshops and in the various EGI Blueprint documents. This session will provide an opportunity for those planning SSCs for EGI to present the current status of their planning, to interact with other coordinators, and to understand in more detail how the SSCs will fit into the EGI ecosystem.

Primary author: LOOMIS, Cal (CNRS/LAL)

Presenter: LOOMIS, Cal (CNRS/LAL)

Track Classification: EGI Related (Transition)

Contribution ID: 5

Type: **Session**

NA2 Face to Face Meeting

Please indicate your preferred day to give a demo.

4 hours

3

EGEE NA2

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Opportunity for NA2 partners to get together to discuss in detail the second year plans. The discussions will cover the transition to EGI, including transferring tasks to local NGIs and SSCs. Progress with the business and dissemination SSC plans will be presented, together with an update on the feedback from the EC First Year Review and any necessary changes to the second year plans.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA2

Special requirements other than the set up mentioned in the CfA text.

20-30

Abstract

Face to face meeting for all partners involved in NA2 to follow up on the NA2 meeting at CERN on 2 June and to discuss concrete plans for transition to EGI during the second year.

Primary author: GATER, Catherine (CERN)

Presenter: GATER, Catherine (CERN)

Track Classification: EGEE

Contribution ID: 6

Type: **Session**

Your Tubes: Grids, New Media and Video

Please indicate your preferred day to give a demo.

1hr 30

3EGEE NA2
GridTalk

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Talk 1: New media avenues – 20 mins

What ways are there of engaging with the public outside the normal print and broadcast media? An interactive discussion presented by the GridTalk project, highlighting their products and other avenues they have used to successfully spread the word about Grid.

Workshop 1: Video Casting Your Work – 1hr 10mins

The GridTalk project leads a workshop on presenting your project by using a quick video presentation similar to the GridCast video podcasts.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA2
GridTalk

Special requirements other than the set up mentioned in the CfA text.

20-30

Abstract

An interactive discussion on how to engage with the press and public outside the normal print and broadcast media, including an opportunity to gain presenting experience in front of the camera. EGEE NA2 and the GridCast team will discuss their experiences in using websites, blogs, social media sites and videocasts to spread the word about grid computing. The session will include a 1hr 10 min workshop on videocasting your work, giving researchers the opportunity to gather some hints and tips on how to put together a video presentation similar to the GridCast video podcasts. The workshop will include opportunities for some researchers to practice presenting their projects in front of the camera, with feedback on how to get their message across clearly and succinctly.

Primary authors: GATER, Catherine (CERN); Mr O'NEILL, Neasan (QMUL)

Presenter: Mr O'NEILL, Neasan (QMUL)

Track Classification: EGEE

Contribution ID: 7

Type: **Session**

From abstract to international news story

Special requirements other than the set up mentioned in the CfA text.

30-40

Please indicate your preferred day to give a demo.

1hr 30mins

3

EGEE NA2

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Talk 1: NA2, why communicate? – 10mins

A short talk on the need for dissemination for the EGEE project and a brief discussion of how to get your story noticed.

Talk 2: From an abstract to a full page in The (London) Times – 30mins

A discussion about the ASTRA project and the media coverage gained during EGEE 4th User Forum, with NA2, ASTRA and a journalist.

Workshop 1: Your work as news - 50mins

A hands on section where small groups pick out a newsworthy abstract and turn it into news.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA2

Abstract

How does a science abstract become an international news story? NA2 discusses the need for dissemination and the impact that it can have for the grid community using the example of an abstract from the EGEE 4th User Forum that became a full page feature in the London Times. Domenico Vicinanza, the scientist involved discusses his experiences with the media, with additional insight from one of the journalists that he worked with.

The session concludes with a hands on section where the participants will work in small groups to review the abstracts from the conference and pick out a demo or poster that could be newsworthy. The presenters will lead them through creating a press release and/or an iSGTW news item. The leader of each group will finally present which item they chose, why, and how they would publicise

it. The journalist will also pick out their preferred item and approach and discuss why they felt it was newsworthy.

Primary author: Ms GATER, Catherine (CERN)

Presenter: Ms GATER, Catherine (CERN)

Track Classification: End Users (Applications)

Contribution ID: 8

Type: **Session**

UK & I Federation Meeting

Please indicate your preferred day to give a demo.

2 hrs

3

Grid-Ireland, EGEE UK, GridPP, NGS

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will bring the UK & I communities up to date with developments and include

Grid-Ireland progress

UK NGI developments

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

UK & I NGI projects - Grid-Ireland, EGEE UK, GridPP, NGS

Special requirements other than the set up mentioned in the CfA text.

20-40 (25 at last UKI Federation session)

Abstract

The session will bring the UK & I communities up to date with developments and include

Grid-Ireland progress

UK NGI developments

Primary author: Dr DEVEREUX, Claire (STFC)

Presenter: Dr DEVEREUX, Claire (STFC)

Track Classification: EGEE

Contribution ID: 9

Type: **Session**

Astronomy and Astrophysics Applications in Grid

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

All research groups that work with the Grid inside or outside EGEE will be encouraged to contribute with oral presentations to show their activities. It is foreseen to allocate 15 minutes for each presentation. In case it won't be possible to accommodate in the session all proposed presentations, those most significant to document the progress with the Grid will be selected. The remaining contributions will be briefly mentioned to make all participants aware of all activities in progress.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4 Astronomy and Astrophysics (A&A) cluster

Special requirements other than the set up mentioned in the CfA text.

40/60

Please indicate your preferred day to give a demo.

2hrs

3

EGEE NA4 as a whole

Abstract

Astronomy and Astrophysics, one of the disciplinary clusters of EGEE-III NA4, counts currently eighteen partners. All of them contribute to the cluster with applications and tools/services mainly thought to make smoother the gridification of applications. According to the past experience, the official events organized by EGEE-III (User Forums and Conferences) represent the most important occasion for members of our community to meet, exchange their own experiences and the acquired know-how with the Grid and establish inter-disciplinary collaborations with other clusters in EGEE-III NA4.

This session is a milestone toward EGI; it is therefore particularly important to gather as many members of the community as possible and have a complete overview of relevant activity carried out since the beginning of the EGEE-III project. The event will be broadly publicized to involve also astronomical research groups that have not contributed to the EGEE-III astrophysical cluster so far.

Primary author: Dr VUERLI, Claudio (INAF-OA Trieste)

Co-author: Dr PASIAN, Fabio (INAF-OA Trieste)

Presenter: Dr VUERLI, Claudio (INAF-OA Trieste)

Track Classification: End Users (Applications)

Contribution ID: 10

Type: **Session**

Transition of the Astronomy and Astrophysics cluster to EGI

Please indicate your preferred day to give a demo.

2hrs

3

EGEE NA4 as a whole

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

An introduction will open the session to illustrate the status of the transition from EGEE-III to EGI as a whole and in particular the status of the A&A SSC preparation. Special emphasis will also be put on some relevant aspects concerning the cluster, especially those concerning the status of related VOs (subscribed users, shared resources and their usage, etc.). An open discussion then will follow. The outcome of the discussion will be reported to the NA4 Steering Committee.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4 Astronomy and Astrophysics (A&A) cluster

Special requirements other than the set up mentioned in the CfA text.

40/60

Abstract

As any other scientific discipline now in EGEE-III, also Astronomy and Astrophysics must become a robust, independent, self-supporting entity capable of coordinating the use of EGI and of safeguarding grid-related knowledge; for this main reason astronomers are therefore strongly motivated to set up a SSC in EGI that must comply with what established for SSCs in the EGI Design Study project.

Because past experiences say that many astronomers preferably attend events organized by EGEE (both User Forums and Conferences), a session dedicated to the transition of the community to EGI while this transition is in its crucial phase appears to be of paramount importance. This session is an excellent opportunity to have a face-to-face meeting with all those actively involved in the setup of the A&A SSC to make a checkpoint on these topics: a) work already done; b) possible weakness points; c) open issues to discuss with all colleagues of EGEE-III NA4; d) planning for the remaining work to do.

Primary author: Dr VUERLI, Claudio (INAF-OA Trieste)

Co-author: Dr PASIAN, Fabio (INAF-OA Trieste)

Presenter: Dr VUERLI, Claudio (INAF-OA Trieste)

Track Classification: EGI Related (Transition)

Contribution ID: 11

Type: **Session**

Grid Observatory

Please indicate your preferred day to give a demo.

4hrs

3

EGEE GO (but also expect participation from operations, middleware and HEP)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will include an overview presentation on the current activity of the GO as well as the prospects for an SSC. It will be followed by a set of short presentations from the community (~8 presentations). It will conclude with a roundtable discussion of the immediate and longer-term future scientific activity and structure of the GO.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE GO

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

The creation of the Grid Observatory (GO) cluster in EGEE-III contributes to involving the Computer Science community in the production grid. The goal of the GO cluster is to integrate the collection of data on the behaviour of the EGEE Grid and EGEE users with the development of grid models.

The evolution towards an independent self-supporting community required by the EGI scheme is a major challenge for the segment of the Computer Science community involved or interacting with the GO, given its short history. On the other hand, the GO achievements - data portal and scientific visibility - are strong encouragements to continue and expand the support to the exploration of the computer science/production grid interfaces.

This session will provide an opportunity for those already involved, as well as those considering participating into a Grid Observatory/Computer Science SSC for EGI to present their motivations, expectations, and possible contributions.

Primary author: Prof. GERMAIN-RENAUD, Cecile (LRI)

Presenter: Prof. GERMAIN-RENAUD, Cecile (LRI)

Track Classification: End Users (Applications)

Contribution ID: 12

Type: **Session**

EGEE Operations : COD-21 towards FORUM-1 (closed)

Abstract

The meeting of COD-on-duty teams is held quarterly. These teams of the 11 federations operate the daily monitoring of production sites of the EGEE/LCG grid infrastructure.

COD-21 will focus on the feedback from the four remaining federations to join the new operations model, which was introduced in January 2009. Assessment of the move to regionalization in operations will be achieved in this meeting as this move is now completed since June 2009.

Potential necessary adjustments to the operations model in the last year of EGEE-III will namely be discussed in COD-21. Subsequent implication on tools and procedures as well as on metrics and on internal work organization will be planned in dedicated thematic working groups, assessed in plenary and validated through the whole activity in order for the daily operations to be, by the end of EGEE-III, as EGI compatible as possible.

Please indicate your preferred day to give a demo.

4hrs (halfday)

3

Hélène Cordier as task responsible for COD activity from EGEE-SA1, as chair of session. Marcin Radecki, Cyril L'Orphelin, Ioannis Liabotis as current subtask responsables.

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Since COD-20; 0:20'; H. Cordier

Assesment of feedback; 1:00; rep. from DE-CH, UKI, SEE, RU

Assessment of model and procedures; 30'; M. Radecki, V. Hansper

Assessment of tools; 40'; C. L'Orphelin

Parallel sessions; 1:00; All

Wrap'up and Roadmap; 30'; H. Cordier

Several presentations in plenary session will feature the latest enhancements in procedures and tools. Thematic activity will be fostered in parallel session to set-up the roadmap of the COD activity towards the end of EGEE-III.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-SA1

Special requirements other than the set up mentioned in the CfA text.

ca 40. Rep. from each federation and permanent guests: TCG sites reps, teams of monitoring tools SAM, SAMAP...; GGUS, GOCDB4 and ENOC.

Room requirements : tables in U shape, paperboard +pens.

Primary author: CORDIER, Helene (CNRS/IN2P3)

Presenter: CORDIER, Helene (CNRS/IN2P3)

Track Classification: EGEE

Contribution ID: 13

Type: **Session**

Network session: EGEE SA2/TERENA NRENs&Grids joint workshop

Please indicate your preferred day to give a demo.

6hrs (full day) Tuesday

3

TERENA: The Trans-European Research and Education Networking Association
<http://www.terena.org/>

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

This field is too small to content our program it will be sent to EGEE 09 PC.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA2

Special requirements other than the set up mentioned in the CfA text.

40 Persons

As a joint conference, we would like to have signposting

Abstract

This session will bring together Grid people and network providers (NRENs). The workshop will mainly focus on Grid requirements and advanced network services. This proposal is made on behalf SA2 partners (CNRS, GRNET, RedIRIS, RRC-KI, DFN, DANTE, GARR) and TERENA.

1. Monitoring session

The network monitoring is the foundation of the relationship between NRENs and Grid

2. Advanced network services

An example of application that requires such advanced services

A presentation of GLIF (<http://www.glif.is/>) and its integration into the middleware AMPS (Advance Multi-domain Provisioning System)

DANTE will present the connectivity services and the new services

3. Project-wide network operations

The network trouble ticket processing is crucial for the Grid network operations

4. Session Grid middleware and IPv6

Sharing the identity data between federations and NRENs' and Grids' middleware cooperation

The main results around gLite IPv6 compliance
Demonstrations and posters at Network booth

Primary author: Mr JEANNIN, Xavier (CNRS/EGEE)

Presenter: Mr JEANNIN, Xavier (CNRS/EGEE)

Track Classification: Collaborative Workshop / Tutorial

Contribution ID: 14

Type: **Session**

Fusion Activities in the Grid, and related projects.

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Agenda (Tentative):

General revision of state of the art in relation with fusion applications.

Advances in fusion applications.

Advances in data management in fusion.

Workflows with fusion applications.

Building a Fusion-SSC

Speakers: Francisco Castejón, Igor Semenov, Marcin Plociennik, Antonio Gómez, José Vázquez Poletti. Others (TBD)

Outcomes: Mayor revision of the state of art of applications and data management in fusion. Works on Fusion-SSC.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Projects: EGEE-III, EUFORIA, EELA-II, Ibercivis.

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

The usage of grid infrastructures for fusion research has provided interesting results that open themselves new lines of research. There is an important number of applications running in the grid with different schemes and structures, which has allowed to gain experience in porting different types of codes. For instance, we can find serial applications, PIC codes and optimisation procedures based upon genetic algorithms. The use of the grid for data management is totally new in fusion and the results of this pilot experience will be shown in this session. Finally, some experiment of complex work-flow between applications running in different architectures will be presented. The session will be used to coordinate the activities to build a Fusion-SSC.

Please indicate your preferred day to give a demo.

4 hrs

3

Francisco Castejón, Antonio Gómez, Miguel Cárdenas, Rafael Mayo (CIEMAT), Igor Semenov, Nikolay Marusov (Kurchatov Inst.), Marcin Plociennik (PSNC), Isabel Campos (CSIC), José Vázquez Poletti (UCM).

Primary authors: Dr CASTEJÓN, Francisco (CIEMAT); Mr CÁRDENAS MONTES, Miguel (CIEMAT)

Presenter: Dr CASTEJÓN, Francisco (CIEMAT)

Track Classification: End Users (Applications)

Contribution ID: 15

Type: **Session**

Earth Science community on its way to the Earth Science SSC

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

What we propose is the following:

- 1 session (2hrs) to discuss the SSC proposal, organisation..... (only the SSC potential participants)

The potential speakers are the responsible of each division of the SSC.

For the SSC session the documents and agenda will be made available on the ES Web site in a specific working group space, already created.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE: ES cluster : Horst Schwichtenberg (SCAI) & Monique Petitdidier(IPSL)
and A small committee that will be created soon

Special requirements other than the set up mentioned in the CfA text.

we expect between 20 to 40 persons

Please indicate your preferred day to give a demo.

2hrs

3

EGEE/ES Cluster, Climate-G, CMCC/SPACI, EMA(FR), IMAA (IT), SeeGrid, Univ. Cantabria (SP), SRI (UK), ...

Abstract

The European Earth Science Grid community is currently organized around different projects and Virtual Organisations. The organization of the wider grid user community will change radically with the transition from project-based grid infrastructures to the European Grid Infrastructure (EGI). In previous workshops or within projects we had the opportunity to share the Grid experience on specific topics and in small groups. It has been decided to propose one ES Specialized Support Centre (SSC) in the EGI framework. At the time of the EGEE'09 conference discussions via teleconferences, meetings, mailing would be carried to define the content and organization of the future SSC. Documents and proposals should be written and circulated. This session will be an opportunity for the potential partners to meet, to discuss in details the ES SSC content, organization and finalize the proposals.

Primary author: PETITDIDIER, Monique (LATMOS/IPSL)

Co-author: SCHWICHTENBERG, Horst (SCAI/FhG)

Presenter: PETITDIDIER, Monique (LATMOS/IPSL)

Track Classification: EGI Related (Transition)

Contribution ID: 16

Type: **Session**

Earth Science GRID highlights

Please indicate your preferred day to give a demo.

2hrs

3

EGEE/ES cluster, G-OWS,ESRIN (Genesi-DR & ESFRI), SEEGRID...

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Proposed Agenda:

ASGC. Taiwan (ES cluster partner with their EGEE connected to ES infrastructure)

GCRAS, ES in Russian Federation and their connection to NCAR (M. Zhizhin)

ES Grid in Africa (M. Petitdidier)

ES applications from Seegrid (V. Floros)

G-OWS (Glite-OWS working group, S. Nativi)

ESFRI: EPOS and Data infrastructure ideas (ESRIN)

ES-Cluster highlights (H. Schwichtenberg + M.Petitdidier)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-ES cluster

Special requirements other than the set up mentioned in the CfA text.

From the previous sessions we expect around 40

Abstract

The European Earth Science Grid community is currently organized around different projects and Virtual Organisations- at least 7 today. This community has ported many applications on Grid and has also developed tools and interfaces with its environment. This session will be an opportunity to present (1) a few highlighting talks to demonstrate international and standardisation activities of ES in EGEE and related projects and (2) few architectures developed or under development by ES disciplines. The interoperability and interfaces between EGEE and those architectures are important for the ES scientists.

Primary author: SCHWICHTENBERG, Horst (SCAI/FhG)

Co-author: Dr PETITDIDIER, Monique (LATMOS/IPSL)

Presenter: SCHWICHTENBERG, Horst (SCAI/FhG)

Track Classification: End Users (Applications)

Contribution ID: 17

Type: **Session**

Cloud Computing Experiences

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Section 1 (30 min): Cloud computing in Grid projects, overview introduction (Aake Edlund)
Section 2 (60 min): Examples of cloud computing usage in grid projects. Three examples a 20 minutes.
Potential speakers from BalticCloud (cloud.balticgrid.eu), SEEGRID, EGEE, or similar.
Section 3 (30 min): Panel. (All speakers from above). Discussing pros and cons, and future ideas of how the grid projects will use cloud computing.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

BalticGrid-II

Special requirements other than the set up mentioned in the CfA text.

60

Abstract

Many grid projects are experimenting with cloud computing, to better understand its practical use, both for the grid provider as for its users. In this session grid projects present their current findings, discuss the benefits and issues with cloud computing from both provider as well as user perspective.

The workshop is coordinated by BalticCloud - a BalticGrid cloud computing testbed.

Please indicate your preferred day to give a demo.

2 hrs

3

BalticGrid-II, SEEGRID, EGEE, RESERVOIR

Primary author: Dr AKE, Edlund (BalticGrid and KTH)

Co-author: Mr LIVENSON, Ilja (BalticGrid and KBFI)

Presenters: Dr AKE, Edlund (BalticGrid and KTH); Mr LIVENSON, Ilja (BalticGrid and KBFI)

Track Classification: Software

Contribution ID: 18

Type: **Session**

The Grid Security Vulnerability Group (GSVG) and the Joint Security Policy Group (JSPG). Reducing Security Risk and building trust in the Grid infrastructure.

Please indicate your preferred day to give a demo.

2 hrs

3

Dr Linda Cornwall and Dr David Kelsey

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

This will include presentations by David Kelsey, Linda Cornwall, (both The Rutherford Appleton Laboratory), and Elisa Heymann (Universitat Autònoma de Barcelona) and possibly another person followed by discussions on how to improve and collaborate in EGI.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

The Grid Security Vulnerability Group (GSV) and the Joint Security Policy Group (JSPG)

Special requirements other than the set up mentioned in the CfA text.

60

Abstract

This session is aimed at users, managers and developers of EGEE resources. In this session a summary of the Grid Security Vulnerability issue handling and Risk Assessment process which has been carried out since the start of EGEE-II will be presented. Plans for how to continue handling Grid Security Vulnerabilities after transition to EGI will also be presented. The examination of software using vulnerability assessment techniques will also be described. Work defining security policies for EGEE, WLCG and several other Grids aimed at establishing trust between the various parties will be presented, along with a summary of the current status and future plans for transition and continuation in EGI.

Primary author: CORNWALL, Linda Ann (Particle Physics-Rutherford Appleton Laboratory-STFC - Science &)

Presenter: CORNWALL, Linda Ann (Particle Physics-Rutherford Appleton Laboratory-STFC - Science &)

Track Classification: Security

Contribution ID: 19

Type: **Session**

USAG @ EGEE'09 meeting

Please indicate your preferred day to give a demo.

2hrs

3

SA1, SA3, OCC, GGUS, TPM, UMD, ROCs, Sites

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

 Agenda approval Comments on minutes from the last USAG meeting User Support strategy; Clear messages to communicate: To be defined based on the documents' state at the end of the summer. This is one of a series of USAG meetings where we are called to shape the User Support strategy in the last year of EGEE and in view of EGI. <P> EGIBlueprintv.3(Dec2008) *for quickreference.*

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

Organised and chaired by the Operations Coordination Centre (OCC), the User Support Advisory Group (USAG) in EGEE III is composed of the VO managers (or their representatives) and representatives from other activities using GGUS.

Its role is to advise the Global Grid User Support (GGUS) on development directions both for the tools and the processes.

Its Information twiki is *https://twiki.cern.ch/twiki/bin/view/EGEE/SA1_USAG* .
USAG meeting stakeplace monthly, usually on the last Thursday of the month.

Participation from all ROCs is important via representatives authorised to comment on their ROC's agreement and commitment to USAG decisions and recommendations.

Other participants are the GGUS developers, the OCC,

NA4, VO and Sites (in agreement with their ROC).

The meeting themes are available

from our < a href = "http://indico.cern.ch/categoryDisplay.py?categId=355" > agenda index .

Primary author: DIMOU, Maria (CERN)

Presenter: DIMOU, Maria (CERN)

Track Classification: End Users (Applications)

Contribution ID: 20

Type: **Session**

Virtualization and Cloud Computing within e-Infrastructures

Please indicate your preferred day to give a demo.

2hrs

3

-

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will include invited talks from efforts aimed at exploring the integration of cloud technologies and services, especially virtualisation, into existing Grid Infrastructures.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

-

Special requirements other than the set up mentioned in the CfA text.

80

Abstract

There is a lot of interest in exploring the use of cloud provisioning models and virtualization technologies within Grid infrastructures. Cloud providers of elastic capacity could be used to scale-out a Grid site in order to meet fluctuating demands or to fast provision a virtualized Grid site. Equally, virtualization technologies provide several benefits for Grid site maintenance, operation and use, such as reduction of gridification cycles, fault tolerance, easier middleware deployment, performance partitioning, or easy support for different VOs.

Primary authors: Dr O'CALLAGHAN, David (Grid-Ireland - e-INIS); Dr RUBEN MANUEL, Santiago Montero (Complutense University of Madrid (UCM))

Presenters: Dr O'CALLAGHAN, David (Grid-Ireland - e-INIS); Dr RUBEN MANUEL, Santiago Montero (Complutense University of Madrid (UCM))

Track Classification: Operations

Contribution ID: 21

Type: **Session**

Monitoring a Grid Side Using Nagios

Abstract

Nagios is the monitoring solution put forward by the EGEE Operations Automation Team for grid sites to help them improve the reliability and availability of their site. In this session we will demonstrate the installation and configuration of Nagios, using standard EGEE tools such as YAIM. We will show how it is linked to the testing that will be done (a.la SAM) by their ROC and tools such as the EGEE regional dashboard and GGUS, allowing them to quickly respond to operations problems.

Please indicate your preferred day to give a demo.

2hr

3

Presentations to given by Nagios experts (e.g. Emir Imamagic, Steve Traylen)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

1. Overview of Nagios in the grid context
2. Installation and Configuration
3. Interaction with other operational tools.
4. Debugging your site

The outcome would be that a site manager would be confident to return and install Nagios and use it to monitor and manage his site.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1 Operations Automation Team

Special requirements other than the set up mentioned in the CfA text.

40

Primary author: CASEY, James (CERN)

Presenter: CASEY, James (CERN)

Track Classification: Operations

Contribution ID: 22

Type: **Session**

GOCDB Advisory Gorup

Please indicate your preferred day to give a demo.

2 hrs

3

SA1 - GOCDB

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The GOCDB Advisory Group (GAG) exists to advise and steer the development of the GOC DB.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1 - GOCDB

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

The GOCDB Advisory Group (GAG) exists to advise and steer the development of the GOC DB.

Primary author: Dr DEVEREUX, Claire (STFC)

Co-author: Mr GILLES, Mathieu (STFC)

Presenters: Dr DEVEREUX, Claire (STFC); Mr GILLES, Mathieu (STFC)

Track Classification: Operations

Contribution ID: 23

Type: **Session**

An Introduction to Regional Operational Tools

Please indicate your preferred day to give a demo.

4hrs

3

EGEE SA1 Operations Automation Team - various teams (GOCDB/STFC, Regional Dashboard/IN2P3, Regional Nagios/SRCE, Regional Metric Store/SAM, Accounting/STFC,CESGA)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

1. Overview of regional model
2. Regional Nagios
3. Regional Metric Store + Visualisation of test results
4. Regionall Dashboard
5. Accounting

The speakers will be the relevant developers and architects of the operational tools. where possilbe there will be a focus on tutorials and demo rather than just slides.

The outcome would be that existing EGEE regional, emerging NGI and associated project operations teams would understand how to install , configure and use the operational tools.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1 Operations Automation Team

Special requirements other than the set up mentioned in the CfA text.

60

Abstract

One aim of the EGEE SA1 Operations Tools is to provide solutions that could exist after the end of EGEE-III in a regional/NGI context. In this session we will show the regional tools that exist as part of the EGEE SA1 OAT Milestone 3 deliverable, how they interact and how they can be used to manage a regional infrastructure.

We will also cover the potential integration points where regional infrastructures can add their own existing tools, such as regional helpdesk, configuration repository, accounting information.

Primary author: CASEY, James (CERN)

Presenter: CASEY, James (CERN)

Track Classification: Operations

Contribution ID: 24

Type: **Session**

Collaboration between EGEE and RESERVOIR

Please indicate your preferred day to give a demo.

1

3

EGEE NA1, NA4 and SA1; RESERVOIR

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The presentation will include several presentations by researchers involved in the collaboration between the EGEE and RESERVOIR projects.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA1; RESERVOIR

Special requirements other than the set up mentioned in the CfA text.

80

Abstract

EGEE and RESERVOIR are working together to explore how the institutes providing computing resources to EGEE could benefit from adopting private and hybrid cloud models to provide resources. The RESERVOIR virtualization manager, built on the OpenNebula Virtual Infrastructure Engine, offers the ability for EGEE sites to easily meet the changing needs of the users, from scaling up services to meet peak loads and improving redundancy or to changing the resources provided to run particular applications.

Primary authors: Dr MARTIN LLORENTE, Ignacio (Universidad Complutense); Dr NEWHOUSE, Steven (CERN)

Presenters: Dr MARTIN LLORENTE, Ignacio (Universidad Complutense); Dr NEWHOUSE, Steven (CERN)

Track Classification: EGEE

Contribution ID: 25

Type: **Session**

Activities of the Spanish National Grid Initiative

Please indicate your preferred day to give a demo.

2hrs (one single session)

3

The presentation will be given by members of the Spanish NGI, the Spanish Network for e-Science, and other international Grid projects with the presence of Spanish partners as key players.

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will start with the organisation of the NGI and its sustainability, followed by presentations on the infrastructure and on the specific services and middleware components, ending with the applications. The potential speakers are: the NGI coordinator (Isabel Campos), the Spanish Network for e-Science coordinator (Vicente Hernández), the applications and middleware coordinators of such network (Ignacio Blanquer and Ignacio Martín) and other selected speakers from specific applications.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

The session would be organised and managed jointly by the Spanish National Grid Initiative and the Spanish Network for e-Science (www.e-ciencia.es).

Special requirements other than the set up mentioned in the CfA text.

No special room requirements are needed. Attendance is expected on the order of 40-60 depending on the other concurrent sessions from the rest of the programme.

Abstract

Although the Spanish National Grid Initiative is officially starting in July 2009, it has a long trajectory as a consequence of the participation in numerous general-purpose and application-area specific Grid infrastructure projects, such as DATAGRID, CrossGrid, EGEE,-II,-III, EELA-1/-2, int.eu.grid, DORII, EUFORIA, WLCG, etc. and a large activity at the national level. The main actors have been organised in the form of research networks since 8 years ago and have progressed strongly in the last 2 years with the start-up of the Spanish Network for e-Science.

This session is a window for the exchange of experiences at the international level. The session will cover middleware, infrastructure organisation and main applications, developed in the frame of the groups working at the Spanish National Grid Initiative.

Primary authors: Dr BLANQUER, Ignacio (UPV - ITACA - GRyCAP); Prof. MARTÍN-LLORENTE, Ignacio (UCM); Dr CAMPOS, Isabel (IFCA-CSIC); Prof. HERNÁNDEZ, Vicente (UPV - ITACA - GRyCAP)

Presenters: Dr BLANQUER, Ignacio (UPV - ITACA - GRyCAP); Prof. MARTÍN-LLORENTE, Ignacio (UCM); Dr CAMPOS, Isabel (IFCA-CSIC); Prof. HERNÁNDEZ, Vicente (UPV - ITACA - GRyCAP)

Track Classification: EGI Related (Transition)

Contribution ID: 26

Type: **Session**

Managing software lifecycle in distributed collaborations

Abstract

Having established a partly distributed software lifecycle process (build, integration, testing release) the EGEE project now faces the challenge of designing an even more distributed process for the EGI project. The session welcomes talks from distributed collaborations highlighting their experience. Talks about tools, techniques or best practices for supporting a distributing software lifecycle are also possible.

Please indicate your preferred day to give a demo.

1-2hr

3

SA3, JRA1

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Andreas Unterkircher, Gianni Pucciani, ETICS

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA3

Special requirements other than the set up mentioned in the CfA text.

40

Primary author: Mr UNTERKIRCHER, Andreas (CERN)**Presenter:** Mr UNTERKIRCHER, Andreas (CERN)**Track Classification:** Software

Contribution ID: 27

Type: **Session**

NA5 coordination activity - closed session

3

NA5 Policy and international Cooperation

Please indicate your preferred day to give a demo.

2hrs

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Closed session to track progress in the NA5 activity and coordinate next steps

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA5 Policy and international Cooperation

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

Closed session to track progress in the NA5 activity and coordinate next steps

Primary author: KANELLOPOULOS, Christos (GRNET/AUTH)

Presenter: KANELLOPOULOS, Christos (GRNET/AUTH)

Track Classification: EGEE

Contribution ID: 28

Type: **Session**

A Specialised Support Centre for Large International Scientific Communities

Please indicate your preferred day to give a demo.

4hrs

3

As above

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

This session would start with a presentation on the status of the preparation of a proposal for an SSC as described above. The foreseen workpackages and deliverables will be described in detail with plenty of time foreseen for discussion.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4/HEP; EGEE NA4/?; WLCG; DESY; INFN; GRNET; CESNET

Special requirements other than the set up mentioned in the CfA text.

100

Abstract

This session exposes in detail the status of discussions and planning for a proposed Specialised Support Centre (SSC) that would serve large existing scientific communities. The tentative list includes

HEP

Astro-particle physics

Nuclear physics

International initiatives - e.g. EnviroGRIDS, UNOSAT, ...

These communities are 'linked' by either the science that they perform and / or the technologies that they use - e.g. Ganga, Dashboards, AMGA, ...

More information can be found at the Wiki for this activity: <https://twiki.cern.ch/twiki/bin/view/LCG/HEPSSCPreparationV>

Primary authors: Dr SHIERS, Jamie (CERN); Dr MENDEZ LORENZO, Patricia (CERN)

Presenters: Dr SHIERS, Jamie (CERN); Dr MENDEZ LORENZO, Patricia (CERN)

Track Classification: EGI Related (Transition)

Contribution ID: 29

Type: **Session**

WLCG Operations: Perspectives for Imminent Data Taking

Abstract

A Scale Test of Experiment Production (STEP'09) is being executed in June 2009. This full production activity will stress a number of critical areas, including tape writing / reading at Tier1s (and Tier0) as well as analysis. The main period of STEP'09 is the first two weeks of June, with a post-mortem workshop to be held early July.

The most likely outcome of this exercise is that there will be a number of areas where limitations are found. This session will focus on the post-STEP'09 activities and improvements, defining the 'final' WLCG operations environment that will be used for the first pp run of the LHC.

Please indicate your preferred day to give a demo.

4hrs

3

EGEE, (NDGF, OSG), WLCG

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The detailed agenda will include both site and service reviews, most likely complemented by experiment views - see for example <http://indico.cern.ch/conferenceOtherViews.py?view=standard&confId=56580>

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE, (NDGF, OSG), WLCG

Special requirements other than the set up mentioned in the CfA text.

80 - 100

Primary author: Dr SHIERS, Jamie (CERN)**Presenter:** Dr SHIERS, Jamie (CERN)

Track Classification: Operations

Contribution ID: 30

Type: **Session**

Users on the Grid

Please indicate your preferred day to give a demo.

2hrs

3

HEP-NA4 cluster
 LHC VOs
 LHC beam team
 Fusion-NA4 cluster
 EnviroGrid project
 ASGC (AvianFlu studies)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Grid support in HEP
 How much can we virtualise user support?
 Pros and Cons of supporting on a distributed infrastructure
 Site readiness as seen by the applications
 What do the users ask to the sites?
 Low-impedence Grid access
 What could Ganga do for my community?
 Zero-training
 Adoption examples

Outcomes

Sharing of the experience with support infrastructures (at least in HEP applications).
 Status of application tools developed by user communities and shared across other communities

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

HEP-NA4 cluster and WLCG Support team

Special requirements other than the set up mentioned in the CfA text.

Large room will be needed, attendance over 80 persons can be well expected

Abstract

The long-term success of Grid computing does not depend only on functionality and resource availability. During EGEE it has become progressively clearer that committed user communities

ask for a dependable computing environment allowing to expand the scope of their research. New communities are very interested to move to the grid if this can be done non-disruptively and progressively. Applications will use Grid for a fraction of their computing. Progressive adoption means that the application can scale up the usage alongside the investment requirement: asking upfront for large investment (in training, in application porting, etc...) is not the correct strategy. Finally (at least at very high-scale in terms of number of users or required resources) new problems for supporting established communities are being faced and we will discuss new issues are being tackled. In this session we will review several initiatives (including success stories) in the area of user and application support

Primary author: Dr LAMANNA, Massimo (CERN IT/GS)

Co-author: Dr MENDEZ LORENZO, Patricia (CERN IT/GS)

Presenter: Dr LAMANNA, Massimo (CERN IT/GS)

Track Classification: End Users (Applications)

Contribution ID: 31

Type: **Session**

Ensuring reliable User Support beyond EGEE-III

Please indicate your preferred day to give a demo.

4hrs

3

EGEE. SA1, SA3, JRA1, NA4

Projects: EGI, D-Grid, other NGIs

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

preliminary Agenda:

THE FUTURE OF FIRST LINE SUPPORT

D. Bosio/M. Dimou

THE FUTURE OF MIDDLEWARE SUPPORT

N.N. (UMD)

THE FUTURE OF OPERATIONS SUPPORT

T. Antoni

THE FUTURE OF GGUS COORDINATION

- USAG

- Escalation procedures

- interfaces to UMD, EGI (Operational Unit + Middleware Unit)

T. Antoni/M. Dimou

DISCUSSION

All

We expect this session to give an overview of our current understanding of the evolution of user support towards the EGI era and to collect input from inside and outside EGEE.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1/SA3/JRA1

Special requirements other than the set up mentioned in the CfA text.

60

Abstract

The main aim of this session is to give an overview of the evolution from the current user support infrastructure as it is operational in EGEE to a model accommodated to the fit the distributed operations model EGI will implement.

There are several areas that need to be adapted and we want to present the current ideas and plans for these activities and discuss the in a wider audience.

Topics to be presented and discussed include:

- * Middleware support: How to interface the UMD activity and the different middleware providers.
- * First line support: How to organise a reliable firstline support in a distributed and heterogeous environment.
- * Operations support: How to move from ROCs to NGIs as main organisational building blocks in user support for operations problems.
- * User support management: How to transfer the successful management concepts and how to involve the future stake holders.

All these topic have both technical and procedural aspects that need to be considered.

Primary authors: Dr BOSIO, Diana (CERN); Dr DIMOU, Maria (CERN); Dr ANTONI, Torsten (Karlsruhe Institue of Technology)

Presenters: Dr BOSIO, Diana (CERN); Dr DIMOU, Maria (CERN); Dr ANTONI, Torsten (Karlsruhe Institue of Technology)

Track Classification: EGI Related (Transition)

Contribution ID: 32

Type: **Session**

Operations Support in EGEE and EGI

Please indicate your preferred day to give a demo.

2hrs

3

SA1, NGIs

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

preliminary Agenda:

THE CURRENT REGIONAL SUPPORT INFRASTRUCTURE

H. Dres

+ 2x N.N. from ROCs

THE NEW WAY TO COMMUNICATE WITH GGUS: GRID MESSAGING

T. Antoni

THE FUTURE OF LOCAL SUPPORT

2x N.N. from NGIs

THE FUTURE OF OPERATIONAL SUPPORT

T. Antoni/D. Bosio/M. Dimou

DISCUSSION

All

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

This session will be dedicated to providing the details of the various regional ticket systems and their interfaces and interactions with the central GGUS system. The focus of the session is on starting to build a community and finding ways to share this knowledge across the ROCs and future NGIs. As more and more NGIs will need to build their interface between the regional support infrastructure and GGUS in the near future.

The session will also describe briefly the evolution of the operations support infrastructure towards and beyond the end of the EGEE project.

A more general and detailed discussion on the future of the whole of the GGUS system and its processes and procedures will be held in another session.

Topics to be discussed in this session include:

- * New interface standard: Grid Messaging.
- * Standard ticket format.
- * Overlap between current ROCs and future NGIs.
- * Will federations continue to exist?
- * Experiences with supporting regional users.

Primary authors: Dr BOSIO, Diana (CERN); Mr DRES, Helmut (Karlsruhe Institute of Technology); Dr DIMOU, Maria (CERN); Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Presenters: Dr BOSIO, Diana (CERN); Mr DRES, Helmut (Karlsruhe Institute of Technology); Dr DIMOU, Maria (CERN); Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Track Classification: EGI Related (Transition)

Contribution ID: 33

Type: **Session**

Bio-inspired Algorithms in Grid.

Abstract

Bio-inspired Algorithms are techniques aim to optimize problems being widely applicable to diverse scientific areas. During the last two years, some emerging examples have appeared where bio-inspired algorithms together with grid computing are used to find optimal solutions in complex problems.

In this session, it is intended to overview the suitability of these algorithms to the grid computing paradigm, as well as, the most relevant showing cases. These cases should have a demonstration effect on the community cheering up the appearance of new collaborations. Furthermore, a brief study of the suitability of diverse techniques (genetic algorithm, particle swarm optimization, etc.) to the grid computing paradigm will be presented.

Please indicate your preferred day to give a demo.

1hr

3

Miguel Cárdenas (CIEMAT), Antonio Gómez (CIEMAT), Others (TBD)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Agenda (Tentative):

General revision of state of the art in relation with Bio-inspired applications and the grid.

Speakers: Miguel Cárdenas (CIEMAT), Antonio Gómez (CIEMAT), Others (TBD)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE, EUFORIA

Special requirements other than the set up mentioned in the CfA text.

10

Primary authors: GÓMEZ IGLESIAS, Antonio (CIEMAT); Mr CÁRDENAS MONTES, Miguel (CIEMAT)

Presenters: GÓMEZ IGLESIAS, Antonio (CIEMAT); Mr CÁRDENAS MONTES, Miguel (CIEMAT)

Track Classification: End Users (Applications)

Contribution ID: 34

Type: **Session**

Application Porting and User Support

Please indicate your preferred day to give a demo.

4hrs

3

EGEE NA4 (but also expect participation from ARC and UNICORE communities)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The first part will include overview presentations about the status, achievements and tools used by the EGEE User Support Activities:

- Applications Porting Support (APS) provides technical assistance to those who wish to enable applications on the EGEE grid
- Direct User Support Team indexes and reviews the available documentation
- VO support team provides administrative support, consultation, and tools for VO managers

The second part will feature the latest porting success from APS team

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4 (Application Porting Support, Direct User Support, VO support, Regional Support)

Special requirements other than the set up mentioned in the CfA text.

ca 40

Abstract

To help the user community take advantage of the benefits of grid computing, EGEE provides a range of support services to its users: application porting support, direct user support, regional support, Virtual Organization (VO) support. The project also provides beginner and expert training on various topics.

In this session the members of the EGEE User Support Activities and their collaborators will give presentations about the services they provide, the experiences they gained, and about the applications, communities and solutions they work with since the start of the EGEE-III project.

The session provides opportunity for new and existing users of the infrastructure to meet members of the support teams, to learn about latest advances of user services, hear about engagement of new applications and to network with each other.

Representatives of NGIs will hear about tools and processes that they can apply in EGI to provide user support services for their communities.

Primary author: Mr SIPOS, Gergely (MTA SZTAKI)

Presenter: Mr SIPOS, Gergely (MTA SZTAKI)

Track Classification: End Users (Applications)

Contribution ID: 35

Type: **Session**

The usage of EDGeS services for EGEE users

Please indicate your preferred day to give a demo.

6 hours

3

EDGeS, EGEE NA4, EELA-2, SEE-GRID-SCI, ETICS-2

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will be divided into three parts:

Part 1: Speakers of the session will include EDGeS members who will explain the EDGeS technology, infrastructure and application porting support.

Part 2: Will show those applications that have been already ported to EDGeS. Speakers will include EDGeS and EGEE users who talk about their experience of porting and running applications on EDGeS.

Part 3. Members of related projects (e.g. IberCivis, EELA) are invited to explain how they can use EDGeS.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EDGeS and EGEE NA4

Special requirements other than the set up mentioned in the CfA text.

Expected attendance: 60

Abstract

There is a strong collaboration between EGEE and EDGeS in order to extend the EGEE infrastructure with volunteer and institutional desktop grids (DG) and to support EGEE users to migrate their application to the integrated EGEE-DG (EDGeS) infrastructure. The goal of this joint EGEE-EDGeS session is to show to the EGEE user community how this integrated infrastructure works, what are the benefits of using it and how their applications can be ported and run on this infrastructure. The session also explains how individual VOs can extend their VO resources with connected DGs. EDGeS will significantly contribute to the future of sustainable grid computing in Europe. This topic will also be addressed in the session. Finally, related projects (e.g. IberCivis, EELA) that use EDGeS technology will present their experience with EDGeS.

Primary authors: Prof. KACSUK, Peter (SZTAKI); Dr LOVAS, Robert (SZTAKI); Mr FLOROS, Vangelis (CERN)

Presenters: Prof. KACSUK, Peter (SZTAKI); Dr LOVAS, Robert (SZTAKI); Mr FLOROS, Vangelis (CERN)

Track Classification: Collaborative Workshop / Tutorial

Contribution ID: 36

Type: **Session**

Accounting in EGEE: Status and Future

Please indicate your preferred day to give a demo.

2 hrs (session)

3

EGEE SA1, NorduGrid (SGAS), OSG (Gratia), INFNGrid (DGAS)
(some sites publishing directly to the accounting are also expected to contribute to the session)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will provide an up-to-date view of the status of the different accounting providers and their plans towards the transition to EGL. The accounting portal will act as the connection between the different providers.

A developer from each accounting providers will be invited to give a presentation (~5 presentations of 20 minutes) following certain guidelines to provide a common view.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

EGEE has a complex accounting ecosystem that involves different accounting providers publishing to a common central repository. Accounting records are periodically aggregated to be finally displayed in the EGEE accounting portal that acts as a connection point between all the different providers and presents the information in a common interface.

The EGEE/WLCG accounting portal is currently one of the most complete grid accounting portals in the world providing different views that go from a global and public view to very specialized views.

In the current EGEE accounting ecosystem the most extended provider is APEL which is included in the standard gLite middleware distribution. Other accounting providers include DGAS in Italy, SGAS in NorduGrid and Gratia in OSG.

The session will provide an opportunity to the different accounting providers to present the current status and their plans towards the new EGI ecosystem.

Primary authors: Mr FERNANDEZ SANCHEZ, Carlos (CESGA); Dr DEL CANO NOVALES, Cristina (STFC); Dr LOPEZ CACHEIRO, Javier (CESGA); Dr GORDON, John (STFC); Mr DIEZ LAZARO, Ruben (CESGA); Mr DIAZ MONTES, Sergio (CESGA)

Presenters: Dr DEL CANO NOVALES, Cristina (STFC); Dr LOPEZ CACHEIRO, Javier (CESGA); Mr DIAZ MONTES, Sergio (CESGA)

Track Classification: Operations

Contribution ID: 37

Type: **Session**

Services for sustainable training communities in EGI

Please indicate your preferred day to give a demo.

1-2 hours

3

EGEE NA3 (but also expect participation from collaborating training communities)

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will include overview presentations from model examples of the NGI training groups, about the status, services provided by their team, and training environment they cover

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA3 (Training & Induction)

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

While researchers may be aware of the benefits to their work in using grid services, the first steps can be a daunting process. The building of ever larger user communities requires that assistance be provided at this initial stage to such potential users.

This important role is fulfilled by the grid training communities, who are able to assist the users in fully understanding the complexities of the grid, and providing the support required in inducting them in the use of grid services.

The training communities are currently well prepared for the future European infrastructure environment, due in part to the already federated training structure which exists.

The session will provide a platform for some of the national training teams to detail the services they provide now with expectations for the future, and also an opportunity for communities to network with the training groups.

Primary author: MCCONNELL, Robin (National e-Science Centre, Edinburgh)

Presenter: MCCONNELL, Robin (National e-Science Centre, Edinburgh)

Track Classification: EGI Related (Transition)

Contribution ID: 38

Type: **Session**

MiddleWare Security Group

Abstract

This is the joint security meeting of the EGEE, OSG and NorduGrid and Unicore. The purpose of the MWSG is to bring together the developers who work in areas that are touched by security issues. These are not necessarily exclusively the security software developers. This forum provides a common venue where security issues can be discussed and, with the other projects, interoperable solutions reached.

3

JRA1 Developers

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

This is the joint security meeting of the EGEE, OSG and NorduGrid and Unicore. The proposed agenda should include talks from middleware developers who work in areas where security is an issue. These do not have to be exclusively the security middleware developers. In addition, speakers that may have alternate or future visions for security development will be encouraged.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE JRA1

Special requirements other than the set up mentioned in the CfA text.

40

Please indicate your preferred day to give a demo.

4 hours

Primary author: Mr WHITE, John (Helsinki Institute of Physics HIP)**Presenter:** Mr WHITE, John (Helsinki Institute of Physics HIP)

Track Classification: Security

Contribution ID: 40

Type: **Session**

MPI

Please indicate your preferred day to give a demo.

2hrs

3

SA3, JRA1, SA1, NA4, MPI-WG

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

- presentation of recommendations by the MPI working group
- presentation by SA1 representative on the installation/administration of MPI in real life
- presentation by an application who used substantial amount of resources in parallel
- discussion about the support structure

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA3

Special requirements other than the set up mentioned in the CfA text.

ca 40.

Abstract

The session would cover the current experiences with the use of MPI and other parallel programming methods on the current EGEE grid. This ranges from operational issues (ease of installation, administration) to the applicability for the end user (finding suitable resources, making it work).

Important open question to address is how to structure support for parallel computing in the EGI situation; the use of MPI is not limited to any particular application area or geographical region.

Primary author: VAN DOK, Dennis (Nikhef)

Presenter: VAN DOK, Dennis (Nikhef)

Track Classification: Operations

Contribution ID: 41

Type: **Session**

The Future of Grid Information Systems

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The main focus is to present the common information, GLUE 2.0 and the adoption strategy for the EGEE infrastructure. EGI brings addition challenges, the main being decentralization of operations, which has implications for the bootstrapping of the information system. Approaches to dealing with this new paradigm in the information system are discussed along with related tools such as the link to the GOC Database. In addition, methods to improve the scalability are also discussed.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA3
SA1

Please indicate your preferred day to give a demo.

2

3

SA1
SA3
JRA1

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

Grid Information Systems are mission-critical components in today's production Grid infrastructures. They enable users, applications and services to discover which services exist in the infrastructure and further information about their service structure and state. Over recent years, a number of Grid projects have emerged and have deployed Grid Information System to support their infrastructures. A significant amount of experience has been gained during this time and improvements have been made to increase the scalability, reliability and robustness of these systems. This session provides a consolation of this experience and a perspective towards the future direction of Grid Information Systems.

Primary author: Mr FIELD, Laurence (CERN)

Presenter: Mr FIELD, Laurence (CERN)

Track Classification: Software

Contribution ID: 43

Type: **Session**

Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Please indicate your preferred day to give a demo.

2hrs

3

GENESI-DR, EGEE/ES cluster, GEOGRID, SEE-GRID-SCI, EnviroGRIDS, EuroGEOSS, e-IRG

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

- collaboration GENESI-DR and EGEE ES
- GEO/GEOSS
- ESFRI
- OpenSearch
- eIRG
- SEE-GRID-SCI and/or EnviroGRIDS ...

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

GENESI-DR + EGEE/ES cluster

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

The analysis of the difficulties the Earth scientists are facing shows the need for a global e-infrastructure supporting efficient data management, high-performance processing and e-collaboration for inter-operation. Grid can be a solution and form the basis for a dedicated ES platform and infrastructure able to respond to the major ES challenges. Interoperability is a key issue in the development of such a platform. Compliance to widely used standards (opportunely enhanced as needed) for data management as well as for processing services provision, appears to be the response to the multi-disciplinary user requirements. Starting from the cooperation set up between EGEE ES cluster and GENESI-DR, this session will be an opportunity to present and discuss different aspects such as data federation, data discovery, digital right management for data, data access, metadata schemas,

and visualization.

The presentation will cover the following topics

- Collaboration GENESI-DR and EGEE ES (1 presentation R.Cossu, L.Fusco - ESA or EGEE-ES cluster)
- GEO/GEOSS and OGC progress in global architecture experimentations (GEOGRID, SEE-GRID-SCI, EnviroGRIDS, EuroGEOSS, OpenSearch GEO extensions...) (4-5 presentations - potential speakers to be invited: Y.Tanaka, D.Gorgan, G.Giuliani, M.Craglia, P.Gonvalves)
- e-IRG Data Management Task Force plans for interoperability and standardisation (1 presentation - speaker to be invited D.Vandromme)

Primary authors: FUSCO, luigi (European Space Agency); COSSU, roberto (European Space Agency)

Presenters: FUSCO, luigi (European Space Agency); COSSU, roberto (European Space Agency)

Track Classification: End Users (Applications)

Contribution ID: 44

Type: **Session**

Monitoring of the activities of the user communities on the EGEE infrastructure

Please indicate your preferred day to give a demo.

2hrs

3

EGEE-III/NA4-HEP, Experiment dashboard

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Overview of the architectural principles of the monitoring infrastructure and Dashboard framework. (TBD)

Job Monitoring with Experiment Dashboard (TBD)

Experiment Dashboard for monitoring of the File Transfer Service (Ricardo Rocha)

Experiment Dashboard for the site commissioning (Pablo Saiz)

User experience with Experiment Dashboard for the LHC computing shifts (TBD)

Monitoring systems providing global view on the WLCG scope (TBD)

Outline of the future work (TBD)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-III/NA4-HEP, Experiment Dashboard

Special requirements other than the set up mentioned in the CfA text.

around 40 persons

Abstract

Reliable monitoring is one of the most important conditions for ensuring of the production quality of the EGEE infrastructure. Various systems provide monitoring of the Grid services focusing on the needs of the operations. On the other hand, the most important indicator of the quality of the infrastructure is the ability to effectively implement the tasks of the user communities on the Grid. The monitoring systems which can follow activities of the user communities and are able to provide the reliable monitoring picture from the user perspective is of big importance. Experiment Dashboard is an example of such a system. It serves one of the biggest EGEE user communities - LHC experiments and covers full range of the LHC computing activities on the Grid. The session includes overview of the architectural principles of the monitoring infrastructure in general, the

current status of the Experiment Dashboard system and of its main monitoring applications, user experience and future plans

Primary author: Ms ANDREEVA, Julia (CERN IT/GS)

Co-author: MENDEZ LORENZO, Patricia (CERN IT/GS)

Presenter: Ms ANDREEVA, Julia (CERN IT/GS)

Track Classification: Operations

Contribution ID: 46

Type: **Session**

Vulnerability Assessment and Secure coding for middleware tutorial

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

The EGEE Grid Security Vulnerability Group (GSVG).

Special requirements other than the set up mentioned in the CfA text.

60

Please indicate your preferred day to give a demo.

4 hours (half day)

3

This will be presented by James Kupsch who is a member of the Vulnerability Assessment project in the department of the University of Wisconsin Computer Science's department.

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

This tutorial will be given by James Kupsch of the University of Wisconsin.

The stated purpose of the GSVG is "to eliminate Grid Security Vulnerabilities from the software and deployment and prevent new ones being introduced". While GSVG has a well established process for handling vulnerabilities reported more needs doing concerning assessing software for vulnerabilities and ensuring developers are educated in secure coding which this tutorial should help achieve.

Abstract

Security is crucial in the software that we develop and use. This tutorial is relevant to anyone wanting to learn about assessing software for security flaws and for developers wishing to minimize security flaws in software they develop.

The tutorial covers a process to actively discover vulnerabilities. We show how to gather information about a system which is used to direct the search for vulnerabilities, and how to integrate vulnerability assessment and discovery into the development cycle. This tutorial teaches critical assessment and coding skills. In addition, it discusses policy issues relating to independent auditing, vulnerability reporting, and integrating security fixes into the software release cycle.

Next, we examine coding practices to prevent vulnerabilities by describing more than 20 types of vulnerabilities with examples of how they commonly arise, and techniques to prevent them. Most

examples are in C, C++, Perl, and the standard C and POSIX APIs.

Primary author: CORNWALL, Linda Ann (Particle Physics-Rutherford Appleton Laboratory-STFC - Science &)

Presenter: CORNWALL, Linda Ann (Particle Physics-Rutherford Appleton Laboratory-STFC - Science &)

Track Classification: Collaborative Workshop / Tutorial

Contribution ID: 47

Type: **Session**

Bioinformatics and Grid - On the way to ordinary usage

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Topics of special interest

* High-throughput and high-performance Bioinformatics: Genomics, Proteomics

Molecular structure prediction, System biology, ...

* Biological data management: Data integration, Distributed filesystems and database, ...

* Bioinformatics tools integration: public Web interfaces, Workflow and distributed applications,

...

Potential Speaker: scientists and representation of national/international bioinformatics grid initiative

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4 Life Science Cluster, Bioinformatics Activity

Special requirements other than the set up mentioned in the CfA text.

40

Please indicate your preferred day to give a demo.

2 hrs

3

NA4 Life Science Cluster, Bioinformatics Activity

Abstract

The Bioinformatics domain studies genes, proteins, and all components of living organisms. These include enabling system biology on grid, oncology study at the molecular level, genome wide association studies of human complex diseases, binding of protein and DNA in the cell nucleus, complete genome comparison, as well as portals or web services that enable grid access for users in areas such as protein sequence or genome level analysis. Several bioinformatics applications are now established as regular users of the grid infrastructure, and collaboration with related projects to port a broad spectrum of applications to the EGEE grid. The main goal of this session is to bring together the bioinformatics community of scientists using the grid and to discuss results about

biological databases and tools on the EGEE platform. The session will focus on challenging points that are still under development in the biosciences domain.

Primary authors: Dr BLANCHET, Christophe (CNRS IBCP); Dr LAVERY, Richard (CNRS IBCP)

Presenters: Dr BLANCHET, Christophe (CNRS IBCP); Dr LAVERY, Richard (CNRS IBCP)

Track Classification: End Users (Applications)

Contribution ID: 48

Type: **Session**

Systems & Software Security Session

Please indicate your preferred day to give a demo.

versions: a) 2hrs,b) 4hrs

3

SA3, Gerard Frankowski (PSNC) - three talks (1-3)

The talks 4 and 5 would be given by someone else

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The first three talks make an "version a)" of the session (2 hours)

1. "Writing secure code not being a security specialist" - 45-60 mins
2. "A developer's security toolset: what if I scan the code myself?" - 30 mins
3. "My Web server safe & sound" - 30-45 mins

The following two talks are an extension to the session (version "b"), would be given by someone else.

4. "Defensive network programming" - up to 1 hour
5. "Raising applications security in EGEE with gLite" - up to 1 hour

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA3

Special requirements other than the set up mentioned in the CfA text.

ca 60-80, the session is basically for the developers and the system administrators

Abstract

PSNC is performing source code security tests of gLite; basing on our experience (and commonly found vulnerabilities) we'd like to tell the programmers how to avoid making common security vulnerabilities and how to use several simple tools to find the most trivial vulnerabilities (like using potentially dangerous functions or simple memory leaks). Input data filtering mechanisms would be especially emphasized. Another short talk will show some simple tools that may be used by the developers (of C, PHP, Java). Additionally, a talk about a simple hardening of a Web server would be included (e.g. avoiding Information Disclosure attacks).

A general idea is that the programmers and administrators should not be security specialists, but should be taught more about secure programming/configuration and its significance. That would

help also the security specialists, who would be able to devote more effort for finding vulnerabilities that are hidden deeply and require a thorough analysis.

Primary author: Mr FRANKOWSKI, Gerard Jan (PSNC (Poznań, Poland))

Presenter: Mr FRANKOWSKI, Gerard Jan (PSNC (Poznań, Poland))

Track Classification: Security

Contribution ID: 49

Type: **Session**

Computational Chemistry – Cluster status and evolution

Please indicate your preferred day to give a demo.

1-2 hours (session)

3

Chemical community members

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session will give a unique opportunity for those planning to apply EGEE Grid in their research conduction to learn how effectively use Cluster resources. For this the session programme will highlight high-level tools easing grid access and planning of numerical experiments in chemistry. In parallel, future evolution of the Cluster will be ascribed together with current status of CMST SSC Session will conclude with discussion concerning future plans and transition of the Cluster into the SSC.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4 – Computational Chemistry Cluster

Special requirements other than the set up mentioned in the CfA text.

10-20

Abstract

Chemical community is very rapidly adopting EGEE Grid as a computational platform for numerical experiments becoming third resource consumer. Numerous applications of computational chemistry methods cover wide area ranging from quantum dynamics simulations for small molecules through ab initio computations up to molecular dynamics modelling of large molecular systems of biological and industrial importance helping to design new materials and study their properties. Despite this success the community utilizes only about 8 percent of EGEE Grid. Therefore Chemistry and Material Science and Technology (CMST) Specialized Support Centre (SSC) – a successor of Computational Chemistry Cluster, will invest into complementing software, computational tools and advanced services as a highly rewarding task in promoting grid computing among chemical and material science and technology community.

Primary author: STERZEL, Mariusz (ACC "Cyfronet" AGH)

Presenter: STERZEL, Mariusz (ACC "Cyfronet" AGH)

Track Classification: End Users (Applications)

Contribution ID: 51

Type: **Session**

Standards and Certifications – Improving the quality of eInfrastructure software

Please indicate your preferred day to give a demo.

1hr 30min

3

OGF-Europe & ETICS

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The session aims at looking in detail into Standardization and Interoperability aspects understanding the steps to be taken in the following 6/8 months. It will include 2 20 min. contributions on potential standardization policies and roadmaps with an update and results from OGF of their Standards work and specs and 2 contributions on tools and procedures ETICS presenting distributed interoperability testing and the creation of repositories of standard compliance validation tools and benchmarks.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

OGF-Europe & ETICS

Special requirements other than the set up mentioned in the CfA text.

20-40

Abstract

The definition of standards is just one step toward their adoption. The lack of general acceptance of standards but also the lack of instruments to help in the adoption of those standards may be the elements that hinder the adoption itself at a large scale. Through OGF-Europe, the EU is playing a leading role in championing the adoption and evolution of distributed computing based open standards. As the only organisation that develops standards specifically for distributed computing, OGF and OGF-Europe are strongly committed to connecting user groups to share best practices and drive specification adoption forward.

ETICS 2 approach demonstrates the usefulness of automation in building and testing distributed software. The quality model conceived within ETICS 2 (A-QCM) can be considered a starting point to create a set of quality measures (including compliance to standards) for the certification of distributed software widely recognised and adopted within the e-Infrastructures communit

Primary authors: DI MEGLIO, Alberto (CERN); MANIERI, Andrea (Engineering Ingegneria Informatica S.p.A.)

Co-author: MATRANGA, Isabel (Engineering Ingegneria Informatica S.p.A.)

Presenters: DI MEGLIO, Alberto (CERN); MANIERI, Andrea (Engineering Ingegneria Informatica S.p.A.)

Track Classification: Software

Contribution ID: 52

Type: **Session**

Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

- Introduction (CNR)
- Combining distributed structured data sources for generation of enhanced biodiversity indicators:
- Mapping biodiversity hotspots and assessing impact of climate change (WorldFish Center)
- Grid supported management of fisheries statistics (FAO Fisheries Dept)
- Virtualizing research environments to hamper the complexity: D4Science solution for data sharing, manipulation, and analysis (CERN)
- Panel: Federating Envir. Science projects through EGI. Is it the right pathw

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

D4Science

Special requirements other than the set up mentioned in the CfA text.

40

Please indicate your preferred day to give a demo.

2hrs

3

D4Science, AquaMaps, 4d4Life, Sterna, ICIS.

Abstract

There is growing evidence that the requirements raised by cross-disciplinary research may not be satisfied within the boundaries of a single organization, regardless of how wide in geographical scale and in aggregating resources this organization can be. Rather, the expectation is that scientific collaboration will need to involve scientists and resources from different institutions, disciplines and countries. This session will exemplify these needs by presenting typical requirements of Environmental scientists. It will then illustrate the contribute that e-Infrastructures, like EGEE

and D4Science, already offer to satisfy them. The session will be closed by a panel, attended by representatives of projects operating in the area of Environmental Science and e-Infrastructures, that will discuss how EGI might contribute to remove barriers between disciplines and facilitate the take-up of e-Infrastructures that integrate and increase research capacities in this area.

Primary author: Dr CASTELLI, Donatella (CNR-ISTI)

Presenter: Dr CASTELLI, Donatella (CNR-ISTI)

Track Classification: End Users (Applications)

Contribution ID: 54

Type: **Session**

Distributed testing and testbed management

Please indicate your preferred day to give a demo.

2hrs

3

EGEE-JRA1

EGEE-SA3

ETICS

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Distributed middleware development strategies: the Product Teams (Francesco Giacomini, EGEE-JRA1 Activity Leader)

Middleware certification strategies for distributed development (Oliver Keeble, EGEE-SA3 Activity Leader)

Distributed testing and testbed management technologies (Alberto Di Meglio, ETICS Project Manager)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-JRA1

EGEE-SA3

ETICS

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

Testing grid middleware and applications in realistic environments is a challenging task that requires the availability and management of distributed testbeds and efficient tools. In addition, the transition from the current EGEE software development structure based on centralized integration and certification to the foreseen EGI/UMD structure based on distributed product development units calls for even more dynamic and efficient management of the testbeds and the testing and certification tools. This session discusses the possible transition plans to the foreseen certification strategies and how existing test management systems like ETICS can help in the organization and coordination of this type of distributed software certification

Primary authors: Dr DI MEGLIO, Alberto (CERN); Mr GIACOMINI, Francesco (CERN, INFN); Dr KEEBLE, Oliver (CERN)

Presenters: Dr DI MEGLIO, Alberto (CERN); Mr GIACOMINI, Francesco (CERN, INFN); Dr KEEBLE, Oliver (CERN)

Track Classification: Software

Contribution ID: 56

Type: **Session**

Product teams and the gLite release process

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

JRA1 & SA3: experience of working in product teams

SA3: running the devolved release process, further changes to be made

SA1: production experience of the changed process and further requirements

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

JRA1, SA1, SA3

Special requirements other than the set up mentioned in the CfA text.

80 or more

Abstract

Changes have been made to the EGEE-III description of work in order to orient the project towards a decentralised EGI era. This session reexamines the changes and discusses their effectiveness in the light of experience

Please indicate your preferred day to give a demo.

4hrs

3

Francesco Giacomini

Antonio Retico

Oliver Keeble

Primary author: KEEBLE, Oliver (CERN)

Presenter: KEEBLE, Oliver (CERN)

Track Classification: Software

Contribution ID: 57

Type: **Session**

European Einfrastructure Forum

Please indicate your preferred day to give a demo.

2 hr

Special requirements other than the set up mentioned in the CfA text.

Small ~12. Need telecon

Abstract

Private meeting of the European E-infrastructure forum

Primary author: JONES, Bob

Track Classification: EGEE

Contribution ID: 58

Type: **Session**

ESFRI & e-Infrastructure Collaborations

Please indicate your preferred day to give a demo.

2

3

ESFRI & EGEE

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The focus will be the exchange of information on ICT requirements of ESFRI research infrastructures as well as the services and future directions of Europe's e-Infrastructures. Closer interaction between the groups will help understand how the needs of the future Research Infrastructures can be accommodated by e-Infrastructures so that they can part of the computing models. It is expected that common themes and potential joint-plans can be concluded from this session and recorded in a report.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA1

Special requirements other than the set up mentioned in the CfA text.

80

Abstract

The European Strategy Forum on Research Infrastructures Roadmap states that Research Infrastructures "often require structured information systems related to data management, enabling information and communication. These include ICT-based infrastructures such as Grid, computing, software and middleware." and continues with "e-Infrastructures are critical to all projects in this roadmap".

A dialog has started between individual ESFRI projects and existing ICT-based infrastructures, such as EGEE, to understand how best they can make use of e-Infrastructures. This session aims to push forward this dialog by bringing together the relevant experts to elaborate suitable ICT architectures for ESFRI projects and guide the e-Infrastructures in their priorities for the future.

Primary author: NEWHOUSE, Steven (CERN)

Presenter: NEWHOUSE, Steven (CERN)

Track Classification: Collaborative Workshop / Tutorial

Contribution ID: 59

Type: **Session**

Alternative Grid Security models

Please indicate your preferred day to give a demo.

2hrs

3

JRA1, SA1, Unicore, ARC, NAREGI, others?

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

This session is open for contributions that would describe Grid security philosophies and models. These could include descriptions of current middleware stacks or completely new ideas. In this session, it could be expected to agree on the strong points of the security models and point the way for future work. Potential speakers would be the security leaders of middleware projects and also anyone else that can propose alternative models/implementations.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

JRA1, Christoph Witzig, John White, Francesco Giacomini.

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

The various middleware stacks each follow their overall security models and implementations. These security models have become entrenched over the projects' lifetimes and could be revisited. In the context of future unification and interoperability of the middleware stacks, it is necessary to ensure the security models are coherent.

Primary author: WHITE, John White (Helsinki Institute of Physics HIP)**Co-author:** WITZIG, Christoph (SWITCH)**Presenter:** WHITE, John White (Helsinki Institute of Physics HIP)

Track Classification: Security

Contribution ID: 60

Type: **Session**

A perspective of Central European region

Please indicate your preferred day to give a demo.

2 hrs session

3

CE NGIs reps, SA1, BalticGrid-II

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

reps of all CE Federation partners will present their views and plans; after discussion further distribution of duties will be drafted. Regionalized NGI functions will be defined.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Central European Federation, CE ROC

Special requirements other than the set up mentioned in the CfA text.

30

Abstract

Central European Federation consisting of 8 countries aims to reorganize its activities and to determine its future in new paneuropean structures (like EGI.org). CE Federation needs to discuss the a/m goals and to plan its restructuring within new frames.

Primary authors: KUSZNIR, Aleksander (CYFRONET); MATYSKA, Ludek (CESNET)

Presenter: KUSZNIR, Aleksander (CYFRONET)

Track Classification: EGEE

Contribution ID: 61

Type: **Session**

German-Swiss Federation Meeting

Please indicate your preferred day to give a demo.

2 hours

3

many

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

German-Swiss Federation Meeting

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

German-Swiss Federation

Special requirements other than the set up mentioned in the CfA text.

less than 20

Abstract

German-Swiss Federation Meeting

Primary author: MICKEL, Klaus-Peter (Forschungszentrum Karlsruhe GmbH (FZK)-Unknown-Unknown)

Presenter: MICKEL, Klaus-Peter (Forschungszentrum Karlsruhe GmbH (FZK)-Unknown-Unknown)

Track Classification: EGEE

Contribution ID: 62

Type: **Session**

SEE Federation Meeting

Please indicate your preferred day to give a demo.

1,5 hr session

3

All activities

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Agenda will include: status of operations and other activities in the region; feedback from region members; evolution towards EGI / NGL.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

South East Europe Federation

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

The SEE Federation Meeting will bring together representatives of the South East Europe Federation in order to coordinate with recent developments in the EGEE-III project activities and the evolution towards EGI.

Primary author: Dr LOURIDAS, Panagiotis (GRNET)

Co-authors: Mr LIABOTIS, Ioannis (GRNET); Dr PRNJAT, Ognjen (GRNET)

Presenter: Dr LOURIDAS, Panagiotis (GRNET)

Track Classification: EGEE

Contribution ID: 63

Type: **Session**

French Federation meeting

Please indicate your preferred day to give a demo.

1h30

3

SA2, NA2, NA3, NA4, PO

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Discussion of the issues relative to the French federation

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

French federation

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

Meeting of the French Federation

Primary author: Dr WORMSER, guy (LAL Orsay)

Presenter: Dr WORMSER, guy (LAL Orsay)

Track Classification: EGEE

Contribution ID: 64

Type: **Session**

SWE Federation Meeting

Please indicate your preferred day to give a demo.

2h

3

Manuel Delfino, Jorge Gomes

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

SWE Federation Meeting

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

SWE Federation Meeting

Primary author: DELFINO REZNICEK, Manuel (Unknown)

Presenter: DELFINO REZNICEK, Manuel (Unknown)

Track Classification: EGEE

Contribution ID: 65

Type: **Session**

Unified Middleware Distribution – handling middleware in the EGI era

Please indicate your preferred day to give a demo.

4hrs

3

EGEE, Nordugrid, UNICORE

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

- Introduction of UMD, the team, overview of work (10')
- Reports of UMD working groups (1h)
- Status of UMD project preparation (20')
- Transition plans of ARC, gLite, and UNICORE (1h)
- Panel (30')

In addition to the concluding panel enough time should be left for ad-hoc questions, clarification, and discussion. Therefore one more hour is allocated.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE (JRA1+SA3), Nordugrid, UNICORE

Special requirements other than the set up mentioned in the CfA text.

80 or more

Abstract

The focus of the session is on foreseen middleware development, maintenance, and support in the EGI framework. Main goals of Unified Middleware Distribution (UMD) are, apart of ensuring continuity of supporting services deployed currently, achieving convergence of the three European middlewares (improving interoperability, reducing costs ...), and setting up sustainable processes of middleware handling. Clear focus of UMD is on maintenance (in a broader sense), while the processes are open for input of new development.

UMD preparation team keeps working since it was formed in late 2008. Results of the work done so far will be presented, as well as overview of the UMD project, being prepared at the time of the conference. Second part of the session is dedicated to reports on specific transition plans of the main middleware providers. The session will be concluded with a panel discussion.

Primary authors: Mr STREIT, Achim (Juelich Supercomputing Centre); Mr KRENEK, Ales (CESNET); Mr KONYA, Balazs (Lund University); Mr SCHULLER, Bernd (Juelich Supercomputing Centre); Mr OULD-SAADA, Farid (University of Oslo); Mr NEWHOUSE, Steven (CERN)

Presenters: Mr STREIT, Achim (Juelich Supercomputing Centre); Mr KRENEK, Ales (CESNET); Mr KONYA, Balazs (Lund University); Mr SCHULLER, Bernd (Juelich Supercomputing Centre); Mr OULD-SAADA, Farid (University of Oslo); Mr NEWHOUSE, Steven (CERN)

Track Classification: EGI Related (Transition)

Contribution ID: 67

Type: **Session**

EGI Proposal

Please indicate your preferred day to give a demo.

2

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Refinements of the EGI proposal

Special requirements other than the set up mentioned in the CfA text.

80

Abstract

A workshop on the EGI proposal

Track Classification: EGI Related (Transition)

Contribution ID: 68

Type: **Session**

SA1 coordination meeting

Please indicate your preferred day to give a demo.

6hrs (if not, 4)

3

SA1

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

speakers: ROC managers

theme: track SA1 plan for Y2

examples agendas from similar past meetings:

<http://indico.cern.ch/conferenceDisplay.py?confId=58156>

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

20

Abstract

Face to face meeting of SA1 management, SA1 task responsables and ROC managers to track progress and discuss issues

Primary author: BARROSO LOPEZ, Maite (CERN)

Presenter: BARROSO LOPEZ, Maite (CERN)

Track Classification: EGEE

Contribution ID: 69

Type: **Session**

Governance models for the long-term sustainability model of EGI

Special requirements other than the set up mentioned in the CfA text.

30-50 participants interested in Policy Actions

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

All TBC (15'ea.)

- 1.Towards new EGI governance model, Arjen Van Rijn, NIKHEF; EGI Org. Task Force
 - 2.Intro from EC legislator on legal framework & how will it work in the future, Annika Thies
 - 3.Migrating to a long-term sustainability model of EGI: The security outlook - Fiorenzo Scaroni or Christoph Graf, SWITCH
 - 4.EFRI user community representative
 - 5.e-IRG White Paper Challenges & Recomm. in context of EGI- Fotis Karayannis, e-IRGSP2 deputy director; EGI Policy Board Vice-Chairman
- Q/A, Roundtable

Please indicate your preferred day to give a demo.

2 hours

3

Funding Agencies, Research , Policy backgrounds

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

OGF-Europe, BELIEF-II, e-IRGSP2

Abstract

In the 2009 European Commission Communication stated that the structuring of the e-Science grid landscape for Future European e-Science grids should continue to build upon the success of current initiatives, driven by the common needs of different scientific disciplines, and to seek uptake by industry.

To reinforce long-term sustainability, governance models need to evolve towards a European Grid Initiative (EGI) building upon the emerging National Grid Initiatives (NGIs).

This policy oriented session wishes to look more closely at the long term sustainability model proposed for EGI.

Through the careful selection of representatives from policy bodies or organisations such as the

leading representatives of the EC, EGI organisation task force, e-IRG and ESFRI who may offer the audience further, valuable recommendations will be drawn on key success factors of sustainability:
☒ How both the legal framework and the migration towards the EGI new governance model will be addressed.

S

Primary author: MUSCELLA, Silvana (OGF.eeig – OGF-Europe)

Co-authors: KARAYANNIS, Fotis (Independent Consultant); BENIANS, Stephen (Metaware)

Presenter: MUSCELLA, Silvana (OGF.eeig – OGF-Europe)

Track Classification: EGI Related (Transition)

Contribution ID: 70

Type: **Session**

Joint Middleware and Operational Security Session (MWSG/OSCT)

Please indicate your preferred day to give a demo.

2

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

Fosters the exchange
between developers and site administrators.

Special requirements other than the set up mentioned in the CfA text.

40

Abstract

This meeting addresses software developers, site administrators and security personnel. It aims to give security recommendations and present good security practices to the audience, including software development, deployment and operations with a specific emphasis on grid middleware. It also presents security policies and procedures all grid participants are bound to.

Primary authors: WITZIG, Christoph; WARTEL, Romain

Track Classification: Security

Contribution ID: 73

Type: **Session**

SA2 Coordination Meeting (Closed)

Abstract

Closed session to track progress in the SA2 activity
and coordinate next steps especially transition toward EGI-NGL.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA2 Activty Leader

Special requirements other than the set up mentioned in the CfA text.

None

Primary author: JEANNIN, Xavier

Track Classification: EGEE

Contribution ID: 74

Type: **Poster**

GiSHEO – Grid-based Services for Education in Earth Observation

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

GiSHEO: On Demand Grid Services for Higher Education and Training in Earth Observation, funded through the PECS Programme of European Space Agency, Contract No. 98061, 2008-2010, 4 partners

Special requirements other than the set up mentioned in the CfA text.

-

Abstract

Following the recent interest in Grid-based processing and storage in Earth Observation, the development of a platform for grid services for higher education and training in Earth observation, named GiSHEO, has started at the begin of 2008. It aims to set-up a reliable resource for knowledge acquisition using existing distributed information on Earth observation and Grid technology. The platform has a layered architecture: user level for authentication and authorization, service level for service registration, searching and composition, processing level, and data levels referring the application database and datasets database. Application database offers a variety of processing applications that are used to create different training lessons starting from remote sensing data. The platform implements also a custom distributed data storage and distribution system able to accommodate large data instances across various Grid nodes.

Primary authors: Prof. PETCU, Dana (West University of Timisoara); Prof. GORGAN, Dorian (Technical University of Cluj-Napoca)

Co-authors: Mr FRINCU, Marc (West University of Timisoara); Mr NEAGUL, Marian (West University of Timisoara); Mr PANICA, Silviu (West University of Timisoara); Mr STEFANUT, Teodor (Technical University of Cluj-Napoca); Mr BACU, Victor (Technical University of Cluj-Napoca)

Presenter: Prof. PETCU, Dana (West University of Timisoara)

Contribution ID: 75

Type: **Session**

HealthGrid workshop - preparing the Life Sciences Specific Support Center

Please indicate your preferred day to give a demo.

The workshop day is so far indifferent

3

The room needed is for approximately 50 persons

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4 Life Sciences Cluster
EGEE Related projects (e-NMR, NEUGrid)
EMBRACE

Special requirements other than the set up mentioned in the CfA text.

No special requirement

Abstract

HealthGrid workshops have been organized regularly at EGEE conferences. This meeting is the opportunity to discuss and understand the impact of EGEE to EGI transition. In particular, the workshop will discuss the organization of the research community using grid infrastructures and the role the life sciences Specific Support Center. Representatives of National Grid Initiatives and related projects will be invited to present their current achievements and to participate to discussions around the list of requirements for the Life Sciences SSC.

Primary authors: Dr BRETON, Vincent Jacques (Laboratoire de Physique Corpusculaire (LPC)); Mr LEGRÉ, Yannick (MAAT-G)

Presenter: Dr BRETON, Vincent Jacques (Laboratoire de Physique Corpusculaire (LPC))

Track Classification: Collaborative Workshop / Tutorial

Contribution ID: 76

Type: **Poster**

WMSMon - gLite WMS/LB Monitoring Tool

3

No, this is only poster presentation.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SEE-GRID-SCI SA1, AEGIS

Special requirements other than the set up mentioned in the CfA text.

No

Abstract

The complex task of discovery and management of computing resources on behalf of user applications in the gLite Grid environment is performed by the Workload Management System (WMS) and Logging and Bookkeeping (LB) services. However, the current implementation of Grid Service Availability Monitoring (SAM) framework does not include direct probes of these essential services. Newly developed WMSMon tool provides a site independent, centralized and uniform monitoring of gLite-WMS/LB services. This tool is based on the client-server architecture, and offers aggregated status view of all monitored WMS/LB services, as well as a detailed status page for each service, with links to the appropriate troubleshooting guides when problems are identified. The WMSMon tool is currently deployed by the SEE-GRID-SCI and AEGIS Grid e-Infrastructures.

Primary author: Mr VUDRAGOVIC, Dusan (Scientific Computing Laboratory, Institute of Physics Belgrade)

Co-authors: Dr BELIC, Aleksandar (Scientific Computing Laboratory, Institute of Physics Belgrade); Dr BALAZ, Antun (Scientific Computing Laboratory, Institute of Physics Belgrade); Mr SIMONOVIC, Janko (Scientific Computing Laboratory, Institute of Physics Belgrade)

Presenters: Dr BELIC, Aleksandar (Scientific Computing Laboratory, Institute of Physics Belgrade); Dr BALAZ, Antun (Scientific Computing Laboratory, Institute of Physics Belgrade); Mr VUDRAGOVIC, Dusan (Scientific Computing Laboratory, Institute of Physics Belgrade)

Contribution ID: 77

Type: **Poster**

WatG Browser - Grid Information System Browser

3

No, this is only poster presentation.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SEE-GRID-SCI SA1, AEGIS

Special requirements other than the set up mentioned in the CfA text.

No

Abstract

WatG Browser is a web-based visualization tool providing detailed overview of the status and availability of various Grid resources in a given gLite-based e-Infrastructure. It is able to query and present data obtained from Grid information systems at different layers: local resource information system for a particular Grid service (GRIS), Grid site information system (site BDII), or top-level information system for the whole Grid infrastructure (top-level BDII). The efficient implementation of WatG Browser allows quick and easy navigation through entries and objects of the LDAP tree retrieved by the specified query, even if the size of the output is huge and hierarchically very complex. This tool is currently deployed by the SEE-GRID-SCI and AEGIS Grid e-Infrastructures.

Primary author: Mr VUDRAGOVIC, Dusan (Scientific Computing Laboratory, Institute of Physics Belgrade)

Co-authors: Dr BELIC, Aleksandar (Scientific Computing Laboratory, Institute of Physics Belgrade); Dr BALAZ, Antun (Scientific Computing Laboratory, Institute of Physics Belgrade); Mr SIMONOVIC, Janko (Scientific Computing Laboratory, Institute of Physics Belgrade)

Presenters: Dr BELIC, Aleksandar (Scientific Computing Laboratory, Institute of Physics Belgrade); Dr BALAZ, Antun (Scientific Computing Laboratory, Institute of Physics Belgrade); Mr VUDRAGOVIC, Dusan (Scientific Computing Laboratory, Institute of Physics Belgrade)

Contribution ID: 78

Type: **Demonstration**

Global Grid User Support - A worldwide distributed user support infrastructure

Please indicate your preferred day to give a demo.

Not on Wednesday, due to clash with sessions important for the presenters.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

Large screen or beamer. Network connection.

Abstract

Grid user support is a challenging task due to the distributed nature of the grid. The variety of users and Virtual Organisations adds further to the challenge. With the GGUS infrastructure, EGEE provides a portal where users can find support in their daily use of the grid. The current use of the system shows that this goal has been achieved with success. During the remainder of the EGEE-III project the focus will be on preparing for the transition to EGI.

This demo will give an overview of the functionalities of the GGUS system. During EGEE-III a number of new features have been introduced in GGUS. Direct ticket routing to sites, alarm and team tickets have been implemented to accommodate for requirements of the LHC VOs, nevertheless they could be of interest to other VOs as well. A Ticket Timeline Tool aims at giving a quick graphical overview of all tickets under the responsibility of a support unit. These and other features would be appropriately shown as a live demonstration.

Primary authors: Dr BOSIO, Diana (CERN); Mr DRES, Helmut (Karlsruhe Institute of Technology); Dr DIMOU, Maria (CERN); Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Presenters: Mr DRES, Helmut (Karlsruhe Institute of Technology); Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Contribution ID: 79

Type: **Demonstration**

Migrating Desktop – Intuitive Interface to Grid Resources

Please indicate your preferred day to give a demo.

22 September 2009

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

PL-Grid
BalticGrid-II

Special requirements other than the set up mentioned in the CfA text.

Access to network is essential to provide on-line demo

Abstract

The success of computing technologies depends heavily on interfaces that should enable easy and transparent access to underlying infrastructures. To achieve this goal we propose The Migrating Desktop – a powerful user interface, that hides the middleware complexity and provides user-friendly and intuitive access to the resources.

Key product features include: simple applications integration, easy job defining, submission, and tracking as well as intuitive management of grid data. Intuitive interface, open architecture and possibility of interoperation between various middlewares makes the Migrating Desktop a valuable tool that could be used both: by inexperienced user or skilled application developer with their work with grid.

Migrating Desktop was created in the CrossGrid project and proved its usefulness in everyday work of BalticGrid int.and eu.grid project users communities. Accepted for EGEE RESPECT program, currently is developed in the BalticGrid-II and PL-Grid (Polish NGI).

Primary author: Mr PALAK, Bartosz (Poznan Supercomputing and Networking Center)

Presenter: Mr PALAK, Bartosz (Poznan Supercomputing and Networking Center)

Contribution ID: 80

Type: **Demonstration**

Visualization e-services and tools for grid build by gLite

Please indicate your preferred day to give a demo.

22

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

LitGrid and BalticGrid-II

Special requirements other than the set up mentioned in the CfA text.

One plasma screen is required for demonstration. I do not know if it is included in the standart demo booth.

Abstract

Enchanted visualization e-services and tools developed within collaborative project BalticGrid-II and Lithuanian NGI will be presented in this demonstration.

Grid visualization e-Service VizLitG developed in Lithuanian NGI is designed for convenient access and interactive visualization of remote data files located in grid. VizLitG build by Java and GlassFish includes automatic HDF5 data management and VTK visualization engine. Moreover, transfer of interactively selected parts of datasets located in experimental Storage Element has been implemented.

VisPartDEM is interactive visualization tool for particle systems simulated by the Discrete Element Method. VTK based tool is implemented in grid environment by using GVid software. It includes parallel rendering and extended functionality like visualization of propagating cracks.

The open-source ParaView software has been deployed in BalticGrid-II testbed for interactive distributed visualization of large datasets.

Primary author: Dr KACENIAUSKAS, Arnas (Vilnius Gediminas Technical University)

Co-author: Dr MAZEIKA, Dalius (Vilnius Gediminas Technical University)

Presenter: Dr KACENIAUSKAS, Arnas (Vilnius Gediminas Technical University)

Contribution ID: 81

Type: **Poster**

Porting application in rfusion VO

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4.2

Special requirements other than the set up mentioned in the CfA text.

No requirements.

Abstract

Application for two-dimensional modeling of microwave propagation in ITER plasma was gridified using GIF portal. User could choose variations of plasma and waves parameters, control computational process, download and view results of each variant separately or of all variants in an archive. Application of modeling of two-dimensional diffraction pattern, and respective one-dimensional scattering-angle distribution, for x-ray diffraction by various carbon nanostructures in a randomly dispersed ensemble is gridified. This numeric code is used for interpretation of x-ray diffraction (XRD) data for the film deposits in tokamak T-10. User could choose variation of the size of nanostructure for each topology and the x-ray wavelength, download and view results of each variant separately or of all variants in an archive.

Application for multivariant tokamak T-10 edge plasma turbulence modeling and visualization is gridified. It is used for interpreting experimental data.

Primary authors: Dr KUKUSHKIN, Alexander (RRC "Kurchatov Institute"); Mr DYABILIN, Konstantin (RRC "Kurchatov Institute"); Mr MARUSOV, Nikolay (RRC "Kurchatov Institute"); Mr NEVEROV, Vlad (RRC "Kurchatov Institute"); Mr VOZNESENSKY, Vladimir (RRC "Kurchatov Institute")

Presenter: Mr MARUSOV, Nikolay (RRC "Kurchatov Institute")

Contribution ID: 82

Type: **Poster**

Multiscale study of O3 Tropospheric in middle Italy

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4.2 Computational Chemistry Cluster

Special requirements other than the set up mentioned in the CfA text.

None.

Abstract

A family of computational applications considered for implementation on the grid is the multi-scale suite of codes modeling the production of secondary pollutants in the atmosphere. The major threat to the air quality is usually represented by the pollutants released in the atmosphere by human activities. These emissions modify the atmosphere composition and worsen its quality with a consequent damage to human health and to the ecosystem. This kind of computational simulations allow to simulate short term acute episodes as well as long-term sustained trends. The steps for implementing on the EGEE grid the necessary computational tools are here described, a study case concerning the modeling of air quality in the middle Italy is considered and the comparison of the calculated results with the measured ones, are discussed. In particular the production of secondary pollutants during the summer 2004 and its impact on the territory has been studied.

Primary author: Dr COSTANTINI, Alessandro (COMPCHEM-University of Perugia)

Co-authors: Prof. LAGANÀ, Antonio (COMPCHEM-University of Perugia); GERVASI, Osvaldo (COMPCHEM-University of Perugia)

Presenter: Dr COSTANTINI, Alessandro (COMPCHEM-University of Perugia)

Contribution ID: 83

Type: **Demonstration**

RadiotherapyGrid: Demonstration of the power of Grid in the e-IMRT computational services for cancer radiation therapy treatment planning

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

BEinGRID

Special requirements other than the set up mentioned in the CfA text.

For live demo, it is better to have two screens. We need also high speed connection to Internet for two computers with all ports open.

Abstract

Radiation therapy is one of the main tools for treatment cancer diseases, alone or together with other techniques. RadiotherapyGrid demonstration shows the usage of new remote computational-based tools to help medical physicists to plan the treatments: a verification tool based on Monte Carlo method and an optimization tool to end a suitable treatment plan for the doctor's prescriptions. Both tools use computational Grid resources to speed-up the calculations and to improve the security and trustworthiness of the platform. In this demonstration, the integration of four modules is shown: GridWay, which has been enhanced with a new plugin which negotiates resources using BEinGRID SLA Negotiation component; a Policy Enforcement Point (Vordel's XML Gateway) which acts as a XML security gateway to check and validate service requests; and a Policy Decision Point (Axiomatics Policy Server) as an authorization server based on XACML standard.

Primary authors: Dr GOMEZ, Andres (CESGA); Mr RODRÍGUEZ-SILVA, Daniel (Universidad de Vigo); Dr MOURIÑO, J. Carlos (CESGA)

Co-authors: Ms GAGO, Araceli (Universidad de Santiago de Compostela); PORTAS FERRADÁS, Breixo Carmelo (Fundación IDCHUS); Mr VÁZQUEZ, Constantino (Universidad Complutense de Madrid); Mr GONZÁLEZ CASTAÑO, Diego (Universidad de Santiago de Compostela); Dr HUEDO, Eduardo (Universidad Complutense de Madrid); Mr GÓMEZ RODRÍGUEZ, Faustino (Universidad de Santiago de Compostela); Dr LLORENTE MARTÍN, Ignacio (Universidad Complutense de Madrid); Dr GONZÁLEZ CASTAÑO, Javier (Universidad de Vigo); MOSQUERA SUEIRO, Javier (Complejo Hospitalario de la Universidad de Santiago); Ms GONZÁLEZ BUGEIRO, Marta (CESGA); Mr POMBAR CAMEÁN, Miguel (Complejo Hospitalario de la Universidad de Santiago); LOBATO BUSTO, Ramón (Complejo Hospitalario de la Universidad de Santiago)

Presenter: Dr GOMEZ, Andres (CESGA)

Contribution ID: 84

Type: **Session**

GRID CALCULATION OF REACTION KINETIC COEFFICIENTS: A QUANTUM MECHANICAL APPROACH

3

No, poster or oral communication if planned for Applications

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

COMPChem VO

Special requirements other than the set up mentioned in the CfA text.

no

Abstract

Our communication provides a detailed description of the gridification of a quantum method for the direct calculation of kinetic coefficients by means of flux correlation functions and the Multi-configurational time-dependent Hartree (MCTDH) scheme for the wavefunction. The methodology has been implemented and made available to the COMPChem VO within EGEE.

It is accepted that the parametric nature of classical and semiclassical trajectory calculations makes these intrinsically suitable for implementation on computing grid and distributed computing naturally beneficial for related techniques. What is a new outcome of our work is that the flux correlation method can play an equivalent role for quantum calculations.

The performance and reliability of the method is illustrated by presenting the results of a computational campaign aimed at the calculation of the N + N₂ reaction rate coefficients using on the LAG3 potential energy surface.

Primary author: Dr HUARTE, Fermin (Universitat de Barcelona)

Presenter: Dr HUARTE, Fermin (Universitat de Barcelona)

Contribution ID: 85

Type: **Poster**

GATE-Lab

Please indicate your preferred day to give a demo.

Not on Monday

3

If possible, poster booth close to the posters "Deployment and evaluation of FIELD-II Matlab ultrasonic simulator on EGEE" and "A comparison of ARC and gLite on medical imaging use-cases"

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4 Biomed, Life Sciences SSC

Special requirements other than the set up mentioned in the CfA text.

NO

Abstract

Grid applications often bring significant computational speed-up but lack a user-friendly interface, thus drastically limiting their user community. This is also the case for gridified radiation therapy simulations performed with the GATE software developed by the OpenGate collaboration. We therefore developed the GateLab, a user-friendly interface composed of a MOTEUR-based web server and a Java client using VBrowser as a GUI to the LFC. Starting from a single user interaction which indicates the main simulation macro file, the GateLab searches for and sends all the needed inputs to the grid. It then splits the simulation into sub-tasks that are submitted to the grid. It monitors the simulation until completion, retrieves and merges the outputs into a location accessible with a simple web URL and keeps track of the simulations history. All these operations are transparent for the end user who does not see the grid complexity behind GateLab. We hope thus extend the usage of the grid.

Primary authors: Mr SARRUT, David (CNRS, CREATIS-LRMN, Léon Bérard Cancer Center); Mr BENOIT-CATTIN, Hugues (CNRS, CREATIS-LRMN); Ms CAMARASU POP, Sorina (CNRS, CREATIS-LRMN); Mr GLATARD, Tristan (CNRS, CREATIS-LRMN)

Presenter: Ms CAMARASU POP, Sorina (CNRS, CREATIS-LRMN)

Contribution ID: 87

Type: **Poster**

MEG - MyProxy Enabled GSISSH

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NGS

Special requirements other than the set up mentioned in the CfA text.

N/A

Abstract

There is lack of client tools that allow users to login to systems using X509-based authentication protocols, and it remains a significant barrier to many first-time grid users who are already on a steep learning curve.

KGSI provides the facility for users to use any SSH-enabled client to login - for instance, clients such as Putty, WinSCP and Nautilus all work with KGSI.

KGSI works by providing a server-only solution. The server uses standard SSH mechanisms that allow the user to supply a username and password to a previously uploaded credential on a MyProxy server. This credential is retrieved on behalf of the user and is then used to authenticate the user on the system.

The system is implemented by applying a small patch to GSI-OpenSSH, a specially written Linux-PAM module, and an authentication helper script.

Primary author: Mr HAINES, Kevin (STFC)

Presenter: Mr HAINES, Kevin (STFC)

Contribution ID: 88

Type: **Poster**

EnviMon – data acquisition and processing application for Environment monitoring

Please indicate your preferred day to give a demo.

During poster session

3

No

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SEE-GRID-SCI

Special requirements other than the set up mentioned in the CfA text.

No special requirements

Abstract

The aim of EnviMon is to organize data acquisition and processing for Environment state monitoring. A nation-wide distributed set of sensors are polled from central station placed at main station of the State Hydrometeo Service of Moldova (SHMS). The application provides data collection, filtering, storage and processing in order to produce synthetic reports and data that can be used as table data or put on geoinformation systems maps. The application is developing by MD-Grid NGI specialists from Moldova in collaboration with specialists from Romania and Hungary participating in SEE-GRID-SCI project and using SEE-GRID infrastructure. The application can be used both autonomously and as part of GreenView grid application, that also is developing in frame of SEE-GRID-SCI project. The aim of the GreenView application is a refinement of surface- and vegetation parameters in SEE region based on satellite images.

Primary author: Dr SIDORENCO, Veaceslav (RENAM)

Co-authors: Mr GOLUBEV, Alexandr (RENAM); Dr GORGAN, Dorian (Technical University of Cluj-Napoca); Ms BORTA, Irina (SHMS); Dr BOGATENCOV, Peter (RENAM)

Presenter: Dr SIDORENCO, Veaceslav (RENAM)

Contribution ID: 89

Type: **Poster**

EGEE Metrics Portal: A new tool to get statistics about EGEE operations.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

None.

Abstract

The metrics portal is the culmination of the work initiated by the Metrics Implementation Group and transferred to the Operations Automation Team (OAT) in EGEE-III. The main objective is to have a set of metrics that can help to measure project performance and keep track of its evolution. The portal automatically collects all the required data and calculates these metrics displaying all of them in a single place. The portal agglutinates information from different sources like GOCDB, GGUS, GridView, etc. using various connectors depending on the data provider. These connectors translate the information gathered from diverse producers and stores it into a local database. At this moment ROC managers who want to get specific metrics, such as number of SLA signed or ticket response time, must obtain this information indirectly from various sources. Using the metrics portal this information will be available from a common interface and full reports could be generated in just a few seconds.

Primary authors: Mr SIMON, Alvaro (CESGA); Dr FERNANDEZ, Carlos (CESGA); Mr FREIRE, Esteban (CESGA); Dr LOPEZ, Javier (CESGA); Mr DIEZ, Ruben (CESGA); Mr DIAZ, Sergio (CESGA)

Presenter: Mr SIMON, Alvaro (CESGA)

Contribution ID: 90

Type: **Poster**

Grid Engine, a modern open source batch system now fully supported in gLite

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1,SA3

Special requirements other than the set up mentioned in the CfA text.

None.

Abstract

Grid Engine (GE) is a modern open source batch system which is now fully supported in gLite. The GE integration process has included several steps that go from development of the JobManager, the Information Provider, the APEL accounting sensor and the Yaim configuration modules to the inclusion in ETICS. During the certification process several stress tests were done to check GE behaviour in a large cluster. GE batch system offers some important features like the possibility to configure a shadow master host for failover purposes, support for up to 10.000 nodes per master server, application level checkpointing, array jobs, DRMAA, fully integrated MPI support, a complete administration GUI, a web-based accounting tool (ARCo) and last but not least a very complete documentation. At present, we are working in the integration of GE inside CREAM-CE and improvement of MPI support, in collaboration with the EGEE MPI WG.

Primary authors: Mr SIMÓN, Alvaro (CESGA); Dr FERNANDEZ, Carlos (CESGA); Mr FREIRE, Esteban (CESGA); Mr BORGES, Gonçalo (LIP); Dr LOPEZ, Javier (CESGA); Mr DIEZ, Rubén (CESGA); Mr DIAZ, Sergio (CESGA)

Presenter: Mr FREIRE, Esteban (CESGA)

Contribution ID: 91

Type: **Poster**

PGAS: bridging the gap between HPC and the GRID

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4 regional participation for UK, Ireland, France

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

As the HPC community moves beyond the Petaflop scale, the rest of us are now immersed into the multi-core and many-core era. Increases in network bandwidth and memory is blurring the distinction between typical HPC and non HPC resources. The development of scalable and portable applications on these new architectures is still lacking behind, for both the HPC community who suddenly have to program for 100s thousands of CPU cores, and the Grid community who has to deal with distributed clusters, of be it, smaller number of cores. Pragmatic approaches such as hybrid MPI, OpenMP or Pthreads have limitations, as each was designed with one paradigm in mind. A new breed of Partitioned Global Address Space (PGAS) languages and runtimes, that combine the benefits of message passing (MPI) with shared memory (OpenMP) programming, have the potential not only to ease application development, but to allow portability and scaling between GRIDs and HPC centres.

Primary author: DJAOUI, Abdeslem (RAL)

Presenter: DJAOUI, Abdeslem (RAL)

Contribution ID: 92

Type: **Demonstration**

EGEE Accounting Portal: Integrating data from different accounting providers.

Please indicate your preferred day to give a demo.

Pending.

3

Possibility of using Red Española de E-Ciencia (REEC) booth: final confirmation pending.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

EGEE has a complex accounting ecosystem that involves different accounting providers (APEL, DGAS, SGAS, and Gratia) publishing to a common central repository. Accounting records are periodically aggregated in order to be displayed in the EGEE accounting portal that acts as a connection point between the providers and presents the information in a common interface.

The EGEE/WLCG accounting portal is currently one of the most complete grid accounting portals in the world providing different views that go from a global and public view to very specialised views.

Using the user DN it is possible to create statistics about the accounting at the individual user level. To access the accounting per user statistics pages it is necessary to authenticate using a X.509 certificate signed by an IGTF approved CA.

The demo will provide an opportunity to see the current status of the portal and all the possibilities it can offer to the grid community.

Primary authors: Mr SIMÓN, Alvaro (CESGA); Dr FERNANDEZ, Carlos (CESGA); Mr FREIRE, Esteban (CESGA); Dr LOPEZ, Javier (CESGA); Mr DIEZ, Ruben (CESGA); Mr DIAZ, Sergio (CESGA)

Presenter: Mr DIEZ, Ruben (CESGA)

Contribution ID: 93

Type: **Poster**

Grid and Database driven earthquake mechanism determination

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

At previous occasions, we presented how the use of computing power of the EGEE infrastructure can be used to drastically reduce the time needed to precisely determine earthquake centroid and centroid moment tensor.

Today, by intelligently using storage facilities indexed by a Grid database service, the hours currently needed to perform the operation can be reduced to a few minutes.

In this poster we introduce the new application and its backing services.

Primary author: Mr WEISSENBACH, David (CNRS / INSU)

Co-author: Mr CLÉVÉDÉ, Eric (CNRS / IPGP)

Presenter: Mr WEISSENBACH, David (CNRS / INSU)

Contribution ID: 95

Type: **Poster**

The Synthetic spectra modeling application SYNTPSEC under GRIDCOM interface

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

BalticGrid-II
LitGrid
GridTechno

Special requirements other than the set up mentioned in the CfA text.

No special requirements.

Abstract

We present astrophysical spectra modeling possibilities under BalticGrid-II infrastructure. The synthetic spectra calculations require data- and compute-intensive application running on the testbed of the GRID infrastructure. The user friendly multi job application SYNTSPEC is a good example of the product which brings the new quality to the research in astrophysics and allows a common (virtual) work of the physically spread scientific group.

The main aim of scientific stellar spectra modeling is to calculate normalized to the continuum stellar spectrum that is applied for determinations of e.g. chemical compositions, effective temperatures and surface gravities of stars. This is very important for the analysis of large quantities of spectra coming from many ground observatories and essential for the preparation of infrastructures and procedures for processing of data, which will be produced by the European Space Agency's GAIA space observatory (to be launched in 2011).

Primary authors: Prof. TAUTVAISIENE, Grazina (ITPA VU); Mr MIKOLAITIS, Sarunas (ITPA VU)

Presenter: Mr MIKOLAITIS, Sarunas (ITPA VU)

Contribution ID: 96

Type: **Poster**

Towards fault-tolerant grids with virtualization technology

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

PL-Grid

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

Growing size of the Grid infrastructures makes the infrastructure more and more prone to failures. Mean time between failures of petaflop systems is counted in at most hundred of hours. Ensuring proper fault tolerance for long-running applications is one of the problems the PL-Grid, the Polish NGI, is trying to solve. Traditionally, the problem was attacked by utilizing different implementations of checkpoint and restart services which, unfortunately, are inherently an application or operating system-specific feature. The growing popularity of virtualization software available for modern OS makes it possible to employ its freeze-and-resume features to acquire checkpoint/restart functionality. We are striving to provide an integration of virtualization with the Grid middleware in order to ensure a seamless blend of those technologies. The goal is to provide an automatic or grid-workflow driven mechanism allowing for more fault-tolerant and flexible computing environments.

Primary authors: KASZUBA, Artur (PSNC); JANUSZEWSKI, Radosław (PSNC)

Presenter: JANUSZEWSKI, Radosław (PSNC)

Contribution ID: 97

Type: **Poster**

Centralized deployment of the French Bioinformatics Grid RENABI

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1
GRISBI

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

RENABI is the French network of 13 bioinformatics platforms located all over the country. Among these platforms, 6 have begun to mutualize their production resources with a grid middleware in the context of the GRISBI initiative (www.grisbio.fr). The people operating these platforms are biologists and bioinformaticians, mostly overloaded by their bioinformatics tasks. Moreover, they don't have much experience in grid middleware installation and administration. Thus we propose a simple procedure to integrate their resources in a grid, which is designed for the sites that have few grid expertise and few manpower. It is based on virtual machines, with a Quattor client installed, pre-defined for gLite nodes (UI, CE, SE). All sites are maintained by one central Quattor server. The use of HTTPS and Grid certificates permits secured communications between the server and the clients. The next step will be to train one member per platform on Quattor administration to set up a core expert team.

Primary authors: ELOTO, Christelle (CNRS IBCP); BLANCHET, Christophe (CNRS IBCP)

Co-authors: MICHON, Alexis (CNRS IBCP); CARON, Christophe (CRNS SB-ROSCOFF); COLLIN, Olivier (IRISA)

Presenter: ELOTO, Christelle (CNRS IBCP)

Contribution ID: 98

Type: **Poster**

Saleve: A Programming Framework for Scientific Parameter Study Problems

Abstract

Saleve is a generic framework for making the development of Parameter Study tasks easy for scientists and engineers not familiar with distributed computing technologies.

Saleve also makes it possible to migrate existing sequential programs in order to exploit the EGEE Grid.

In this poster we wish to present three aspects of Saleve.

First, we demonstrate its operation via a scientific pilot application.

We simulate the abrasion process of a pack of pebbles and we explore detailed statistics about their final shapes over a range of parameters.

Second, we present a lightweight delegation of credentials, which works without installing gLite or other third party software on the end users' computer.

Third, we try to reduce the makespan of the jobs submitted by Saleve.

We also outline some ideas for further improvements.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

The Saleve Project (Web: <http://saleve.web.cern.ch/saleve/>)

Special requirements other than the set up mentioned in the CfA text.

It is only a poster, not a demo. Thank you.

Primary authors: Dr SZEBERENYI, Imre (BME IK); DOBE, Peter (BME IK); KAPOLNAI, Richard (BME IK)

Co-author: Dr SIPOS, Andras (BME Dept. of Mechanics, Materials and Structures)

Presenters: DOBE, Peter (BME IK); KAPOLNAI, Richard (BME IK)

Contribution ID: 99

Type: **Poster**

A Prioritisation Policy for the Interoperation of Service Grids and Opportunistic Grids

Please indicate your preferred day to give a demo.

September 23rd

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EELA-2

Special requirements other than the set up mentioned in the CfA text.

None.

Abstract

With the emergence of many production grid infrastructures, sustainable operation of these infrastructures has become now the main issue to be addressed. As a grid is a shared and cooperatively operated infrastructure, it is natural that different grids are now seeking to interoperate, not only to increase their capacity, but also to make their operation more cost-effective. In the EELA-2 project we have been working on how to interoperate a service grid based on the gLite middleware with an opportunistic grid based on the OurGrid middleware. Before defining how interoperation should be implemented, we have first studied why these two types of grids should interoperate. Our results show that interoperation only makes sense if suitable prioritisation policies are in place. We have leveraged on the built-in incentive mechanism of OurGrid to implement such prioritisation leading to the successful integration of the service part and the opportunistic part of the EELA-2 grid infrastructure.

Primary author: Prof. BRASILEIRO, Francisco (UFCEG)

Presenter: Prof. BRASILEIRO, Francisco (UFCEG)

Contribution ID: 100

Type: **Demonstration**

Interoperation of gLite and OurGrid in the Context of the EELA-2 Project

Please indicate your preferred day to give a demo.

September 24th

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EELA-2

Special requirements other than the set up mentioned in the CfA text.

None.

Abstract

In this demo we present our approach to interoperate a service grid (SG) based on the gLite middleware with an opportunistic grid (OG) based on the OurGrid middleware. In addition to the traditional gateway-based approach, we have also leveraged on the facilities of OurGrid to provide a way to opportunistically explore the SG resources whenever they are idle. The advantages of this approach are threefold: firstly, it allows idle resources belonging to the SG to be used in an opportunistic way, improving the efficiency of the service grid; secondly, the provision of an OG allows shared resources to be added to the infrastructure, a feature that turns out to be very important for consortia in which many of the member institutions cannot afford the provision of dedicated resources; finally, the OG can efficiently execute the embarrassingly parallel workload, liberating the SG to execute mostly tightly-coupled applications, with a great reduction on the response time of these applications.

Primary author: Prof. BRASILEIRO, Francisco (UFCEG)

Presenter: Prof. BRASILEIRO, Francisco (UFCEG)

Contribution ID: **101**Type: **Poster**

EDGeS: Extending resources of EGEE VOs with desktop grid resources

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EDGeS is an FP7 project working in strong collaboration with EGEE-3 in order to extend the EGEE infrastructure with DG systems and to port EGEE applications for this extended EGEE infrastructure.

Special requirements other than the set up mentioned in the CfA text.

No special requirements.

Abstract

EDGeS developed a bridging technology by which the resources of EGEE VOs can be extended with inexpensive desktop grid (DG) resources. This technology is now in production and applied for several applications developed by the EGEE community. The goal of this demo is to show

1. how a usual EGEE VO can extend its resource with DG resources that are coming either from a public DGs or private DGs.
2. how existing EGEE application can be ported and executed on such extended EGEE VO systems
3. those EGEE application that were already ported to the extended EGEE-EDGeS infrastructure: fusion, biomedical, e-market place, etc.
4. how the gLite CLI can be used to submit such applications into the extended EGEE-EDGeS infrastructure
5. how the P-GRADE portal can be used to transparently submit such applications into the extended EGEE-EDGeS infrastructure
6. how a new public DG system (specialized to support EGEE applications and called as EGEE@home) has been set up and used for EGEE users.

Primary author: Dr LOVAS, Robert (MTA SZTAKI)

Presenter: Dr LOVAS, Robert (MTA SZTAKI)

Contribution ID: 102

Type: **Poster**

EnviroGRIDS - Gridifying the Black Sea catchment to support its sustainable development

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EnviroGRIDS

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

The Black Sea Catchment is recognized for its ecologically unsustainable development and inadequate resource management. The 4-year timeframe FP7-funded EnviroGRIDS project (start: April 2009, 27 partners) will address these issues by developing a Spatial Data Infrastructure (SDI) targeting this region which will be linked to the EGEE infrastructure. A large catalogue of environmental data sets (e.g. landuse, hydrology, climate) will be gathered and used to perform distributed spatially-explicit simulations to build scenarios of key environmental changes. A high resolution (sub-catchment spatial and daily temporal resolution) water balance model will be applied to the entire Black Sea catchment using the Soil Water Assessment Tool (SWAT) on the Grid. SWAT modules for uncertainty and sensitivity analysis on SWAT will also be gridified using the well established Ganga job management and submission tool for front-end job management.

Primary author: Dr MAIER, Andrew (CERN)

Co-authors: LEHMANN, Anthony (Climatic Change and Climate Impacts, EnviroSpace group, University of Geneva, Switzerland and UNEP/DEWA/GRID-Europe, Châtelaine, Switzerland); Dr GORGAN, Dorian (Technical University of Cluj-Napoca, Romania); Dr GIULIANI, Gregory (Climatic Change and Climate Impacts, EnviroSpace group, University of Geneva, Switzerland and UNEP/DEWA/GRID-Europe, Châtelaine, Switzerland); Dr RAY, Nicolas (Climatic Change and Climate Impacts, EnviroSpace group, University of Geneva, Switzerland and UNEP/DEWA/GRID-Europe, Châtelaine, Switzerland)

Presenter: Dr MAIER, Andrew (CERN)

Contribution ID: 103

Type: **Poster**

Load balancing techniques for a distributed WMS cluster

Abstract

The gLite Workload Management System is a central Grid service, responsible for the transparent dispatching of computing tasks to remote computing facilities. It is tightly coupled with the Logging and Bookkeeping service which stores lifecycle information about the tasks. High throughput submission, scalability and high availability are critical requirements for a WMS/LB cluster. We present the design and deployment scheme of a DNS-based technique for geographical load-balancing. It relies on the WMSMonitor as information provider about status of the individual WMS/LB instances in the cluster. The WMSMonitor metrics, combined with the result of external submission tests allow the system to select the best WMS to be exposed to the users. The workload is effectively distributed and the submission failure prevented. This technology is effectively deployed in the Italian region since early 2009.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-SA1

Special requirements other than the set up mentioned in the CfA text.

None

Primary authors: Mr CESINI, Daniele (INFN-CNAF); Dr DONGIOVANNI, Danilo (INFN-CNAF); Mr FATTIBENE, Enrico (INFN-CNAF); Dr FERRARI, Tiziana (INFN-CNAF)

Presenter: Mr CESINI, Daniele (INFN-CNAF)

Contribution ID: 104

Type: **Poster**

VOMS roles in the data management for cosmological projects

3

booth hosted by PIC or Spanish eScience Network

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Physics of the Accelerated Universe Survey (PAUS), NA4

Special requirements other than the set up mentioned in the CfA text.

nothing

Abstract

Proxies give a large flexibility when dealing with permission policies for accessing grid resources. According to the amount of distinguishable information that a proxy contains one can map this information to different users and groups.

The Port d'Informació Científica (PIC) started to collaborate with the Institut d'Estudis Espacials de Catalunya (IEEC) hosting their simulation data that were produced at the MareNostrum super-computing centre. The access to that data have been granted through a simple VO membership. But the participation in projects is of a dynamical nature. Recently, the IEEC and the PIC started to collaborate in the project of Physics of the Accelerated Universe (PAU). The new project requires a different permission policy since external groups are involved. In order to maintain the number of VOs small we take advantage of different VOMS roles to cover different projects within the same research group and to create a proper permission policy.

Primary author: Dr NEISSNER, Christian (PIC)**Co-authors:** MARTINEZ, Francico (PIC); Prof. DELFINO, Manuel (PIC)**Presenter:** Dr NEISSNER, Christian (PIC)

Contribution ID: 105

Type: **Poster**

A Distributed CPU Usage Accounting Infrastructure Based on ActiveMQ Messaging System

3

No

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1 Grid Operations, Support and Management Enabling

Special requirements other than the set up mentioned in the CfA text.

No

Abstract

The APEL (Accounting Processor for Event Logs) is a CPU usage accounting tool currently deployed within the EGEE and WLCG projects. It publishes accounting records generated on each Grid client site into a centralised repository at a Grid Operations Centre by using R-GMA (Relational Grid Monitoring Architecture) as the records transport mechanism and for access from a GUI web tool. Apache ActiveMQ messaging broker has been deployed as an alternative transport layer in common with other EGEE operational tools. This will not only replace R-GMA for APEL but will provide the transport layer for other accounting systems to publish relevant accounting data to a central repository. This will give NGIs flexibility in their choice of accounting. The robust and secure (PKI and SSL) delivery of accounting record messages at an NGI level and between NGI accounting instances and a central records cache will be achieved with configurable APEL publishers and ActiveMQ message brokers.

Primary authors: Mrs DEL CANO NOVALES, Cristina (Science and Technology Facilities Council, United Kingdom); Mr MATHIEU, Gilles (Science and Technology Facilities Council, United Kingdom); Dr GORDON, John (Science and Technology Facilities Council, United Kingdom); Dr JIANG, Ming (Science and Technology Facilities Council, United Kingdom)

Presenters: Mrs DEL CANO NOVALES, Cristina (Science and Technology Facilities Council, United Kingdom); Mr MATHIEU, Gilles (Science and Technology Facilities Council, United Kingdom); Dr JIANG, Ming (Science and Technology Facilities Council, United Kingdom)

Contribution ID: 106

Type: **Poster**

Enhancing Grid Fault Detection and Recovery with an Expert System

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

WLCG and EGEE/NA4-HEP

Special requirements other than the set up mentioned in the CfA text.

none.

Abstract

Error handling is a crucial task in an infrastructure as complex as a grid. There are monitoring tools which report faulty grid behavior and error codes of failed grid jobs. However, even error codes do not necessarily indicate the actual source of an error. A more sophisticated methodology is proposed to locate grid problems and offer solutions. The system, called QAOES (Quick Analysis of Error Sources), operates in two phases. First, problematic grid components are automatically detected by applying the data mining method association rule mining, which takes dependencies between characteristics of failed grid jobs into account. Second, expert knowledge about the problem and its solution is collected and transformed to generic rules. Based on these rules, QAOES provides a list of current problems and suggested solutions in a web interface. Therewith, the time to detect and solve grid problems is reduced and the overall reliability is improved.

Primary author: Ms MAIER, Gerhild (CERN)

Co-authors: Mr VAN DER STER, Daniel (CERN); Prof. KRANZLMÜLLER, Dieter (Ludwig-Maximilians-Universität München)

Presenter: Ms MAIER, Gerhild (CERN)

Contribution ID: **107**Type: **Poster**

Security Monitoring in EGEE

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE OSCT, EGEE OAT

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

The Operational Security Coordination Team of EGEE (OSCT) provides an operational response to security threats against the EGEE infrastructure. Apart from handling security incidents, the group also focuses on other areas, with security monitoring being one of the key ones. On the poster we will present the latest achievements of the monitoring activity of the OSCT, as well as future work plans.

In particular, we will present a campaign using system Pakiti to acquire information about security patches applied in EGEE. We will describe how the Pakiti server collects and evaluates data about packages installed and outline its further development.

Utilizing results of collaboration between the OAT and OSCT, we will also demonstrate ways how security-related probes can be integrated with the new EGEE monitoring framework based on Nagios.

Finally, tools that trace users' activities on the grid using the L&B service and log files generated by grid components will be presented.

Primary authors: KANELLOPOULOS, Christos (AUTH); TRIANTAFYLLIDIS, Christos (AUTH); KOURIL, Daniel (CESNET); FOUOSSONG, Dorine (CNRS); RYABINKIN, Eugene (RRC KI); MISURELLI, Giuseppe (INFN); PROCHAZKA, Michal (CESNET); BRUNETTI, Riccardo (INFN); WARTEL, Romain (CERN)

Co-authors: IMAMAGIC, Emir (SRCE); CASEY, James (CERN); SHADE, John (CERN); POGONOWSKI, Karol (CERN); SKABURSKAS, Konstantin (CERN); TRAYLEN, Steve (CERN)

Presenter: KOURIL, Daniel (CESNET)

Contribution ID: **108**Type: **Poster**

SPAGO, a flexible approach to open HPC resources to the GRID: the example of CRESCO HPC system

Please indicate your preferred day to give a demo.

no preference, it's a poster

3

no

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

the activity has been performed in the framework of SA1 Italy

Special requirements other than the set up mentioned in the CfA text.

no

Abstract

The SPAGO (Shared Proxy Approach for Grid Objects) architecture provides a flexible solution to add HPC resource to a gLite based GRID, minimizing the middleware invasiveness on the local infrastructure and enabling the connection to systems and architectures not yet supported by the standard gLite software.

As a result this allows a wider array of scientific software to be run on the EGEE Grid and a wider segment of the research community to participate in the project, expanding significantly the penetration of the EGEE GRID outside its traditional domain of the distributed and capacity focused computation. The poster describes the SPAGO implementation (GPFS based) used to put a section of the CRESCO HPC system (2720 cores interconnected by Infiniband, <http://www.cresco.enea.it>) the GRID, and its behavior while in production, including scalability issues. Statistics about the production system utilization and reliability will also be shown.

Primary authors: Mr ROCCHI, Alessio (ENEA); Dr QUINTILIANI, Andrea (ENEA); Dr SANTORO, Andrea (ENEA); Dr SCIÒ, Carlo (ENEA); Dr BRACCO, Giovanni (ENEA); Dr PODDA, Salvatore (ENEA); Dr MIGLIORI, Silvio (ENEA)

Presenter: Dr SANTORO, Andrea (ENEA)

Contribution ID: **109**

Type: **not specified**

Introduction

Tuesday, 22 September 2009 11:00 (10 minutes)

Presenters: Mr SZEGEDI, Peter TERENA; Mr JEANNIN, Xavier (EGEE / SA2)

Session Classification: Network session: EGEE SA2 / TERENA NRENS & Grids joint workshop

Contribution ID: **110**

Type: **not specified**

Advanced Network Services Session

Contribution ID: 111

Type: **Poster**

Contract based Virtual Organizations in PL-Grid

3

PL-Grid

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

PL-Grid

Special requirements other than the set up mentioned in the CfA text.

None - poster will be displayed at the PL-Grid booth.

Abstract

Modern scientific and business applications are becoming increasingly complex and they require that the underlying Grid middleware is properly configured. These applications often include workflow type problems, interactive collaboration systems or ones with real-time constraints. In order to cope with such requirements in heterogeneous environments we propose the use of semantically enhanced Virtual Organizations on top of Grid infrastructures.

Within the Polish National Grid initiative, a novel system will be developed which will use the semantic annotation of resources within the Grid in order to enable contract based inception and management of Virtual Organizations, contract negotiation interface, automated VO deployment based on the contract statements including SLA enforcement and security configuration as well as contract monitoring facilities.

The poster will present vision and architecture of the mentioned framework and it's place within the Polish National Grid initiative.

Primary authors: Mr KRYZA, Bartosz (ACC Cyfronet AGH); Prof. KITOWSKI, Jacek (ACC Cyfronet AGH); Dr DUTKA, Lukasz (ACC Cyfronet AGH); Dr SLOTA, Renata (Institute of Computer Science AGH)

Presenter: Dr DUTKA, Lukasz (ACC Cyfronet AGH)

Contribution ID: 112

Type: **not specified**

Advanced Network Services Session

Contribution ID: 113

Type: **not specified**

e-VLBI applications and requirements (JIVE)

Tuesday, 22 September 2009 11:15 (20 minutes)

Presenter: Dr BOVEN, Paul

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 114

Type: **Poster**

Virtual Laboratory Powered by GridSpace in PL-Grid

Please indicate your preferred day to give a demo.

Tue-Wed

3

We will show the demo on PL-Grid booth.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

PL-Grid

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

We present the details of GridSpace platform which serves as a basis for the virtual laboratory developed in PL-Grid project. In GridSpace, the high-level notation for composition of complex applications is based on the Ruby scripting language. To provide an easy access to different computing and data resources, we have introduced a grid object abstraction level hierarchy. The Virtual Laboratory is equipped with tools for user-friendly experiment creation and execution, enabling reusing of existing experiments, gathering and exploiting provenance, as well as integration of geographically-distributed compute and data resources.

Virtual Laboratory has been applied to:

- execute important virological experiments in ViroLab,
- protein folding and structure comparison,
- data mining with the Weka library,
- computational chemistry - to develop and run series of Gaussian application on EGEE.
- as an education tool in computer science classes.

<http://virolab.cyfronet.pl>

<http://gs.cyfronet.p>

Primary author: Dr MALAWSKI, Maciej (AGH University of Science and Technology, Krakow, Poland)

Co-authors: HAREŻLAK, Daniel (ACC Cyfronet AGH, Krakow, Poland); CIEPIELA, Eryk (ACC Cyfronet AGH, Krakow, Poland); KOCOT, Joanna (ACC Cyfronet AGH, Krakow, Poland); KASZTELIK, Marek (ACC Cyfronet AGH, Krakow, Poland); Dr BUBAK, Marian (AGH University of Science and Technology, Krakow, Poland); NOWAKOWSKI, Piotr (ACC Cyfronet AGH, Krakow, Poland); BARTYŃSKI, Tomasz (ACC Cyfronet AGH, Krakow, Poland); Mr GUBAŁA, Tomasz (ACC Cyfronet AGH, Krakow, Poland)

Presenter: Dr MALAWSKI, Maciej (AGH University of Science and Technology, Krakow, Poland)

Contribution ID: 115

Type: **not specified**

Integration of GLIF services into the Grid middleware

Tuesday, 22 September 2009 11:35 (35 minutes)

Presenter: Mr FISHER, Lars (NORDUnet)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 116

Type: **Poster**

Grid enabling framework for population SNPs genetic linkage analysis.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-III NA4

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

The genetic linkage analysis of Single Nucleotide Polymorphism (SNP) markers has recently become a very popular approach for genetic epidemiology and population studies, aiming to discover the genetic correlation in complex diseases. The high computational cost and memory requirements of the major algorithms proposed in literature make analyses of medium/large data sets very hard on a single CPU. The genotyping technologies have greatly facilitated the study of DNA variations in large size samples, allowing the association of the genetic patterns to different clinical phenotypes. We present a performance analysis of a distributed approach for large genetic SNP and mutation studies on high throughput genotyping data based on EGEE Grid platform.

Primary author: Dr MILANESI, Luciano (National Research Council - Institute of Biomedical Technologies)

Co-authors: Dr ORRO, Alessandro (National Research Council - Institute of Biomedical Technologies); Dr CALABRIA, Andrea (National Research Council - Institute of Biomedical Technologies); Dr DI PASQUALE, Davide (National Research Council - Institute of Biomedical Technologies); Dr TROMBETTI, Gabriele (National Research Council - Institute of Biomedical Technologies); Dr GNOCCHI, Matteo (National Research Council - Institute of Biomedical Technologies)

Presenter: Dr MILANESI, Luciano (National Research Council - Institute of Biomedical Technologies)

Contribution ID: 117

Type: **Poster**

imath.cesga.es: Making easy GRID to mathematicians

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Project Ingenio Mathematica i-MATH

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

imath.cesga.es is a new European VO devoted exclusively to Mathematics promoted by the i-MATH Project. This initiative has the aim of leveraging the investigation in Mathematics in Spain, including the usage of computing and supercomputing facilities for research in Mathematics. Although other previous GRID projects have been developed in the area of Mathematics, up to our knowledge, this is the first initiative focused on all fields of this science. The initial infrastructure has been deployed in three distributed sites, basing the front-ends on the XEN virtual machines to simplify the deployment and management in the future. Since the usage of GRID has to be very easy, we have tested several final-user frameworks and we have selected P-Grade Grid Portal as front-end because it fulfills the requirements of simplicity and powerful workflow, including parametric studies. The VO is open to other research groups in Mathematics both within i-MATH Project or Europe at large.

Primary author: SANCHEZ, Maria Teresa (CESGA)

Co-authors: Dr GÓMEZ, Andrés (CESGA); GARCÍA-TORRE, Fernando (Departamento de Matemática Aplicada y Ciencias de la Computación. Universidad de Cantabria. Spain); FERNÁNDEZ, Jesús (Departamento de Matemática Aplicada y Ciencias de la Computación. Universidad de Cantabria. Spain); Dr GESTO, José Manuel (Departament de Matemática Aplicada III. ETSECCPB, UPC, Barcelona, Spain.); Prof. GUTIÉRREZ, José Manuel (Departamento de Matemática Aplicada y Ciencias de la Computación. Universidad de Cantabria. Spain); GARCÍA-MAGARIÑOS, Manuel (Departamento de Estadística e Investigación Operativa. Universidad de Santiago de Compostela. Spain.); Prof. CAO, Ricardo (Departamento de Matemáticas. Universidad de A Coruña. Spain.); Prof. GONZÁLEZ-MANTEIGA, Wenceslao (Departamento de Estadística e Investigación Operativa. Universidad de Santiago de Compostela. Spain.)

Presenter: Dr GÓMEZ, Andrés (CESGA)

Contribution ID: **118**

Type: **not specified**

Advanced Multi-domain Provisioning System (AMPS) and SLA

Tuesday, 22 September 2009 12:10 (25 minutes)

Presenter: Dr POULI, Vassiliki (NTUA)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 119

Type: **Poster**

Metaschedulers in the environment of eScience portals: a case study with GridWay

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

RETELAB

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

RETELAB project is devoted to the design, development and deployment of a Grid infrastructure for the Spanish oceanographic research community. RETELAB users have strong requirements for processing satellite images and numeric simulation, but they are not mostly experts in Grid or computing technology. We have created a virtual laboratory based on Grid technology, which is accessed through the web. Globus has been used as Grid middleware and GridWay as workload management tool. To allow GridWay as metascheduler for this environment, it has been updated to support concurrent usage by several proxies for the same Unix user. This poster presents a review of the virtual laboratory design focusing on the job submission module, specifically designed for fulfilling the users requirements. Job submission module has been integrated as a portlet in the GridSphere framework and it allows the communication between GridWay and the portal using the Distributed Resource Management Application API.

Primary author: COTELO QUEIJO, Carmen (CESGA - Supercomputing Center of Galicia)

Co-authors: Dr GÓMEZ TATO, Andrés (CESGA - Supercomputing Center of Galicia); MERA PÉREZ, David (Systems Laboratory, Electronics and Computer Science Departament, University of Santiago de Compostela); Dr LÓPEZ CABIDO, Ignacio (CESGA - Supercomputing Center of Galicia)

Presenter: Dr GÓMEZ TATO, Andrés (CESGA - Supercomputing Center of Galicia)

Contribution ID: 120

Type: **not specified**

GN3: Connectivity services, AutoBAHN, and new services

Tuesday, 22 September 2009 12:35 (25 minutes)

Presenter: Dr VICINANZA, Domenico (Dante)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: **121**

Type: **not specified**

Network monitoring session

Contribution ID: 122

Type: **not specified**

The network monitoring in grid context

Tuesday, 22 September 2009 14:35 (25 minutes)

Presenter: Mr IMAMAGIC, Emir (SRCE / EGEE-SA1)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 123

Type: **not specified**

perfSONAR Lite TSS: A light network troubleshooting tool

Tuesday, 22 September 2009 15:00 (30 minutes)

Presenter: Dr NAEGELE-JACKSON, Susanne (Univ. Erlangen)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 124

Type: **not specified**

PerfSONAR deployment over Spanish LHC Tier 2 sites

Tuesday, 22 September 2009 15:30 (30 minutes)

Presenter: Mr ESCOLANO SÁNCHEZ, Alberto (RedIRIS)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 125

Type: **Poster**

A comparison between xen and kvm

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

This is an activity carried on by the italian Tier1 center in the virtualization area

Special requirements other than the set up mentioned in the CfA text.

Nothing

Abstract

Virtualization is a proven software technology that is rapidly transforming the IT landscape and fundamentally changing the way that people compute. Recently all major software producers (e.g. Microsoft and RedHat) developed or acquired virtualization technologies. Our institute is a Tier1 for LHC experiments and is experiencing lots of benefits from virtualization technologies, like improving fault tolerance, providing efficient hardware resource usage and increasing security. Currently the virtualization solution adopted is xen, which is well supported by the SL distribution, widely adopted by the HEP community. Since the HEP linux is based on RedHat ES, we feel the need to investigate performances and usability differences with the new kvm technology recently acquired by RedHat. This poster will show all the comparative results we got and will show very interesting results. Literature is quite poor of comparatives, so we think this is really an interesting poster to be shown.

Primary authors: Mr CHIERICI, Andrea (INFN-CNAF); Mr RICCARDO, Veraldi (INFN-CNAF)

Presenter: Mr CHIERICI, Andrea (INFN-CNAF)

Contribution ID: 126

Type: **not specified**

IPv6 gLite Compliance

Tuesday, 22 September 2009 16:05 (25 minutes)

Presenters: Mr DUBLÉ, Etienne (EGEE / SA2); Dr REALE, Mario (GARR)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 127

Type: **Demonstration**

VO Specific Service Monitor

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

WLCG

Special requirements other than the set up mentioned in the CfA text.

We don't have any special requirements

Abstract

This demonstration will describe how to integrate the monitoring of diverse VO specific services into a global framework for service monitoring, the Service Level Status (SLS).

SLS is a framework developed by CERN/IT that allows to group services, and to report their status and their availability. For each service thresholds can be defined to trigger alarms of increasing severity. Historical data available in the SLS database can be retrieved via a web and a programmatic interface.

In this demonstration we will show how to configure low level sensors (i.e. LeMon at CERN, or nagios in other computing centres) for VO specific services and how to aggregate the metrics into SLS. The modularity of SLS allows providing different views for different end-users.

The LHC VOs are already actively profiting of SLS to monitor the status of their complex and heterogeneous services in daily operations. SLS can be the service monitoring solution for other VOs as well.

Primary authors: Dr DI GIROLAMO, Alessandro (CERN); Dr MAGINI, Nicolo (CERN)

Presenters: Dr DI GIROLAMO, Alessandro (CERN); Dr MAGINI, Nicolo (CERN)

Contribution ID: 128

Type: **not specified**

Touble Ticketing: The importance of collaboration between Grids and NRENs

Tuesday, 22 September 2009 17:05 (15 minutes)

Presenter: Mr CESSIEUX, Guillaume (IN2P3/CNRS)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 129

Type: **not specified**

Network Trouble Tickets: Normalisation and improvement (GRNET)

Tuesday, 22 September 2009 17:20 (20 minutes)

Primary author: Dr SPYROS, Kopsidas (University of Thessaly)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 130

Type: **not specified**

Trouble ticket and incident correlation

Tuesday, 22 September 2009 17:40 (20 minutes)

Presenters: Dr KONOPLEV, Veniamin (RRC-KI); JEANNIN, Xavier

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 131

Type: **not specified**

Identity federations with eduGAIN

Tuesday, 22 September 2009 18:05 (25 minutes)

Presenter: Mr LOPEZ, Diego R. (RedIRIS)

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 132

Type: **not specified**

Your Grid certificate within minutes: Dream or close to reality?

Tuesday, 22 September 2009 18:30 (30 minutes)

Presenter: Mr MEIJER, Jan

Session Classification: Network session: EGEE SA2 / TERENA NRENs & Grids joint workshop

Contribution ID: 133

Type: **Demonstration**

The Worldwide LHC Computing Grid

Please indicate your preferred day to give a demo.

The proposal consists actually of various demos that would run during the four days of the conference. One possibility would be to dedicate each day to focus on one of the four LHC experiments.

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The plan is to place these demos in PIC's booth. The focus will be on showing the WLCG in production at the Tier sites from Spain and Portugal, but it is open to more general views if needed.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

WLCG, ALICE, ATLAS, CMS, LHCb

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

The LHC, the most powerful particle accelerator in the world, starts in 2009 at CERN. Inside its tunnel, protons will be accelerated and smashed head on, recreating the conditions just after the Big Bang.

The four detectors recording the collision products will generate an unprecedented amount of data, accumulating over 15 Petabytes every year. To process, analyse and store this data, the largest scientific Grid in the world has been built: the Worldwide LHC Computing Grid. It builds on top of major research Grid infrastructures such as EGEE and OSG, combining the computing resources of more than 140 computing centres in 34 countries.

The activity and operations of the WLCG for the four LHC experiments will be presented in a graphical way, demonstrating how each experiment computing model workflows are implemented on top of the infrastructure.

Primary author: Mr MERINO, Gonzalo (PIC)

Presenter: Mr MERINO, Gonzalo (PIC)

Contribution ID: 134

Type: **Poster**

Grid-friendly software licensing for location independent application execution

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SmartLM

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

Software licensing is identified as a particular concern for enterprise IT managers as they start to deploy virtual Grids in any meaningful way. For all the potential benefits of Grids, IT departments cannot afford to buy software licenses for every device in the service oriented infrastructure that by nature consumes resources dynamically. Current software licensing practices are limiting the acceleration of Grid adoption. Indeed, the rapid emergence of service and virtualization environments requires a rapid evolution in licensing models. SmartLM will provide a generic and flexible licensing virtualization technology for new service-oriented business models across organization boundaries. SmartLM aims at rendering mechanisms for managing and using software licenses in a more fair and flexible way. SmartLM licenses may be used seamlessly in local cluster environments, as well as in local or remote Grid and Cloud environments, and under circumstances that the SOA concept presents.

Primary author: GARCÍA PÉREZ, David (CESGA)

Co-authors: GÓMEZ TATO, Andrés (CESGA); MOURIÑO, José Carlos (CESGA)

Presenter: GARCÍA PÉREZ, David (CESGA)

Contribution ID: 135

Type: **Demonstration**

Further development of P-GRADE Portal for advance user support

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE NA4 Application Porting Support, SEE-GRID-SCI, Grid Malaysia, UK NGS, CancerGrid, EDGeS

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

P-GRADE Portal has been downloaded from sourceforge in about 1400 copies since 2008 January. Its popularity has been constantly growing and has been deployed by new communities (Belgium Grid, WhiteRoseGrid UK, Grid Malaysia, etc.) beyond the previously existed ones. Our mission is to improve the portal for these communities with new features and functionalities. The goal of this demo is to show these new features:

- 1.) Features requested by SEE-GRID-SCI project:
 - a. Extending the portal with a community workflow repository based on the D-Space OSS repository system.
 - b. Creating an infrastructure test portlet by which users can test the grid CEs and SEs with their own certificate proxys.
- 2.) Accounting portlet (requested by Grid Malaysia)
- 3.) gUSE/WS-PGRADE for advance users:
 - a. embedding workflows
 - b. generator and collector nodes in workflows
- 4.) Application specific portals:
 - a. Rendering portal (by Univ. of Westminster)
 - b. OmNet simulation portal
 - c. CancerGrid portal

Primary author: SIPOS, Gergely (MTA SZTAKI)

Presenter: SIPOS, Gergely (MTA SZTAKI)

Contribution ID: 136

Type: **Poster**

A Virtual Research Environment for Species Distribution Map Generation and Management

Please indicate your preferred day to give a demo.

Monday, Tuesday, Wednesday.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

D4Science Project

Special requirements other than the set up mentioned in the CfA text.

No special requirements.

Abstract

In the context of marine species distribution prediction, AquaMaps started providing a service, that by combining survey data with environmental data and habitat profiles, generates model-based species distribution maps. To improve the scientific activity behind this modeling based approach D4Science started a collaboration with AquaMaps by developing a Virtual Research Environment. Through this supporting environment, scientists have a seamless access to all the resources that are needed to experiment different algorithms/models (data and computing resources) and are provided with tools for sharing their research findings. The development of this scenario was facilitated by the exploitation of the EGEE infrastructure: different applications for data elaboration and maps generation have been gridified. The Demo will focus on the data production (data import and indexing, map generation) and data consumption (search, browse, annotation) facilities.

Primary authors: Mr MANZI, Andrea (CERN); Ms KASCHNER, Kristin (University of Freiburg - Faculty of Biology); Mr PAGANO, Pasquale (CNR)

Presenters: Mr MANZI, Andrea (CERN); Ms KASCHNER, Kristin (University of Freiburg - Faculty of Biology)

Contribution ID: 137

Type: **Poster**

GOCDB new architecture and design for working in a European Grid Infrastructure

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

N/A

Abstract

In recent years, GOCDB has become the central authoritative repository for topology and site information within EGEE and WLCG. As with other tools used by these organisations, many changes are required in the GOCDB architecture due to the dramatic evolution of the overall EGEE infrastructure towards a regionalised model.

The new GOCDB architecture is based on a pseudo relational object database model (PROM) which allows for the separation and distribution of GOCDB to each EGEE region and prepares for distribution to each possible future NGI. We will create a poster to explain the design and implementation of GOCDB-4, from a general system overview to technical details regarding the operating interfaces and database design. The poster will also provide an update showing the latest system developments as well as a status report from pilot instances of regional GOCDB-4 nodes.

Primary authors: MATHIEU, Gilles (RAL-STFC, Didcot, UK); CASSON, John (RAL-STFC, Didcot, UK)

Presenter: MATHIEU, Gilles (RAL-STFC, Didcot, UK)

Contribution ID: 138

Type: **Demonstration**

eNMR: Web-enabled life-science applications on EGEE

3

“e-NMR” booth (reference name: Pina Salente, INFN)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

e-NMR: deploying and unifying the NMR computational infrastructure in system biology (EU 7th framework program, Contract no. 213010).

Special requirements other than the set up mentioned in the CfA text.

we need to run 2-3 demos in our booth, and place 2-3 posters

Abstract

Members of the structural biology community find it challenging to install, maintain and operate dozens of softwares themselves. The e-NMR collaborative EGEE project involves partners from the Universities of Utrecht, Frankfurt, Padova and Florence, and EBI-EMBL that aim at minimizing the complexities for users, and making the process more effective by integrating software into one easily accessible platform. Conventionally users submit jobs to the GRID via the gLite middleware. Recently, users showed preference to use a web-browser interface. We are developing these technologies for life science applications in the field of biomolecular NMR in order to provide a uniform web-interface (portals) for a wide range of applications in NMR signal assignment, protein and DNA/RNA structure calculation, molecular docking etc. The e-NMR infrastructure is operational and integrated into EGEE. At the conference we will present demos/posters of the project and the first implemented e-NMR portals.

Primary authors: Mr BAGARIA, Anurag (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University); Dr ZHARAVIN, Victor (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University)

Co-authors: BONVIN, Alexandre M.J.J. (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR)); GIACHETTI, Andrea (Interuniversity Consortium for Magnetic Resonance on Metalloproteins (CIRMMP)); ROSATO, Antonio (Interuniversity Consortium for Magnetic Resonance on Metalloproteins (CIRMMP)); CAROTENUTO, Dario (Interuniversity Consortium for Magnetic Resonance on Metalloproteins (CIRMMP)); GALLIGANI, David (Interuniversity Consortium for Magnetic Resonance on Metalloproteins (CIRMMP)); FRIZZIERO, E. (National Institute of Nuclear Physics, Padua (INFN)); SCHOT, Gijs van der (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR)); SCHWALBE,

Harald (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University); JONKER, Henry (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University); BERTINI, Ivano (Interuniversity Consortium for Magnetic Resonance on Metalloproteins (CIRMMP)); MAZZUCATO, M. (National Institute of Nuclear Physics, Padua (INFN)); VERLATO, M. (National Institute of Nuclear Physics, Padua (INFN)); FERREIRA, Nuno Loureiro (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR)); GÜNTERT, Peter (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University); BOELEN, Rolf (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR)); BADDOER, S. (National Institute of Nuclear Physics, Padua (INFN)); DAL PRA, S. (National Institute of Nuclear Physics, Padua (INFN)); TRALDI, S. (National Institute of Nuclear Physics, Padua (INFN)); WASSENAAR, Tsjerk (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR)); VRANKEN, Wim (European Bioinformatics Institute (EBI-EMBL))

Presenters: Mr BAGARIA, Anurag (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University); Dr ZHARAVIN, Victor (Center for Biomolecular Magnetic Resonance (BMRZ), Goethe-University)

Contribution ID: 139

Type: **Poster**

EGEE COD dashboard: Moving to supervision with regional gridops dashboard - EELA use case

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

n/a

Abstract

Operators use a dedicated dashboard as their central operational tool for 4 years now. Tool and workflow are stable and scalable through continuous upgrade with specifications from users, monitoring tools or data providers. Regionalisation for operations induced a change over to the “regional gridops dashboard” that we will provide by years’end, to federations or specific NGIs, as a regional instance customizable through interfaces specifications. Also, a similar instance hosted centrally will track specific problems that need international supervision. Finally, this central instance will provide a default “regional view” for those federations who will not develop their own solution. Thus, we derived all the options to choose from and we will present the Gridops dashboard architecture as part of the new operations framework in EGEE, easily deployable and adaptable to various heterogeneous information sources. Furthermore, we will show a specific implementation for EELA use-case.

Primary authors: L’ORPHELIN, Cyril (CNRS/IN2P3); CORDIER, Helene (CNRS/IN2P3); LINS, Marcos (CNRS/IN2P3)

Co-authors: LEQUEUX, Olivier (CNRS/IN2P3); VEYRE, Pierre (CNRS/IN2P3); LOIKKANEN, Sinikka (CNRS/IN2P3)

Presenter: LINS, Marcos (CNRS/IN2P3)

Contribution ID: 140

Type: **Poster**

EGEE Operations Portal: From an Integration Platform into a Generic Framework in EGI context

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

n/a

Abstract

EGEE Operations Portal, key service in the last years, is restructured now into a “generic gridops framework”, to be EGI compliant, hosted centrally with functionalities turning into modules with designated interfaces. Key features will be integrated providing namely an interface to data providers like VO ID Card. Features will be integrated for the regions or future NGIs usage into a “regional gridops framework” with defined interfaces, for future NGIs to customize the inner modules to their needs. In parallel, GOCDDB4 is changing its schema, and is developing a central web interface to access information. This significant functional common ground to both frameworks, induced a recent close-up of the teams and an assessment of potential common developments to provide a seamless, unique access point to sites admins and VO managers. We will present the current status of gridops framework migration including the outcome of the study about merging GOCDDB4 and GRIDOPS web interfaces.

Primary authors: L'ORPHELIN, Cyril (CNRS/IN2P3); MATHIEU, Gilles (RAL/SFTC); CORDIER, Helene (CNRS/IN2P3)

Co-authors: LINS, Marcos (CNRS/IN2P3); LEQUEUX, Olivier (CNRS/IN2P3); VEYRE, Pierre (CNRS/IN2P3); LOIKKANEN, Sinikka (CNRS/IN2P3)

Presenter: L'ORPHELIN, Cyril (CNRS/IN2P3)

Contribution ID: 142

Type: **Demonstration**

Integrating SAGA with GANGA and gLite

Please indicate your preferred day to give a demo.

First day (21st September), as I have to travel to the US soon after that.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Work done in Collaboration with Jakub Moscicki and Steve Newhouse

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

SAGA is a high-level API that is currently an OGF technical specification; it is slated to become a standard in 2010. Several production grids worldwide currently support SAGA or are deploying it currently (including TeraGrid and UK's NGS). SAGA provides the ability to develop applications and tools that can work on and interoperate across different distributed systems.

The aim of this talk/demo is to show progress towards integrating (i) SAGA with GANGA and (ii) developing gLite adaptors for SAGA. We will discuss the advantages that will arise as a consequence to the broader EGEE applications community.

Primary author: JHA, Shantenu (LSU)

Co-authors: MERZKY, Andre (LSU); KAISER, Hartmut (LSU); MOSCICKI, Jakub (CERN); WEIDNER, Ole (LSU)

Presenter: JHA, Shantenu (LSU)

Contribution ID: 143

Type: **Demonstration**

An Efficient Resource-related SLA Management with Bazaar Portal

Please indicate your preferred day to give a demo.

Tuesday or Wednesday

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

PL-Grid (Polish NGI), but tool also relates to EGEE SA1-NA4

Special requirements other than the set up mentioned in the CfA text.

no special requirements

Abstract

On the global computational market, that EGEE infrastructure grows to be, there are hundreds of actors providing and using computational resources. It is useful to define the terms of services, usually called SLAs, between a VO and a resource center. Due to a large number of interactions as well as many details that should be negotiated in each case, a formalized, traceable and efficient process should be introduced.

“Bazaar” is a web portal aiming at facilitating resource management process for both VO managers and resource operators. Functionality includes: defining and broadcasting calls for resources, negotiating and managing SLAs, managing communication between partners.

The tool is maintained within PL-Grid Project and deployed for operation in Polish NGI, in Central European ROC within EGEE Project, and in EGEE seed-resources activity.

For more information please refer: <http://grid.cyfronet.pl/bazaar/>

Primary author: SZEPIENIEC, Tomasz (ACK Cyfronet AGH)

Co-author: Ms TOMANEK, Malgorzata (ACK Cyfronet AGH)

Presenters: Ms TOMANEK, Malgorzata (ACK Cyfronet AGH); SZEPIENIEC, Tomasz (ACK Cyfronet AGH)

Contribution ID: 144

Type: **Poster**

Publishing Accounting Data from Outside gLite

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

KnowARC

Special requirements other than the set up mentioned in the CfA text.

No additional requirements.

Abstract

Grid resource accounting is a crucial element of a sustainable grid infrastructure. Resources involved in EGEE need to supply usage data for the central database of the GOC. However, not all such resources run gLite, therefore they cannot depend on its APEL component.

The goal of this poster is to present the trends of grid accounting in Northern Europe. Nordic grid communities make huge effort to apply standard solutions, primarily the specifications recommended by OGF. To achieve this, the SweGrid Accounting System (SGAS) was the choice for accounting by sites of the Nordic DataGrid Facility.

More specifically, the poster gives an overview of the integration of the new ARC middleware with SGAS, a work done within the KnowARC project. It also presents the highest priority problems to be discussed and solved for improved integration with the central GOC DB of EGEE.

Primary authors: Dr KÓNYA, Balázs (LU HEP); Mr DÓBÉ, Péter (BME IK + NIIF)

Presenter: Mr DÓBÉ, Péter (BME IK + NIIF)

Contribution ID: 145

Type: **Poster**

DQ2 Accounting Service

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

ATLAS Distributed Data Management

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

The ATLAS Experiment, one of the four detectors taking data from the Large Hadron Collider, will generate multi-Petabyte data volumes that need to be distributed worldwide over more than 100 computing sites. For this reason, ATLAS has developed the DQ2 distributed data management system on top of the services delivered by the WLCG Grid infrastructure. The DQ2 software is responsible for handling discovery, replication and deletion of ATLAS data as well as providing the necessary accounting and management of user and group quotas.

In this paper we will focus on the accounting service describing its components and showing different application examples taken from the monitoring interfaces.

Primary authors: Mr BARREIRO MEGINO, Fernando Harald (CERN); Dr JEZEQUEL, Stephane (LAPP); Dr GARONNE, Vincent (CERN)

Co-authors: Dr MOLFETAS, Angelos (CERN); Mr LASSNIG, Mario (CERN); Dr LAMANNA, Massimo (CERN); Dr CAMPANA, Simone (CERN)

Presenter: Mr BARREIRO MEGINO, Fernando Harald (CERN)

Contribution ID: 146

Type: **Poster**

FireStation on the grid - a step further on the adoption of OGC/SDI standards

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

CROSS-Fire, EELA-2

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

FireStation (FS) is a CAD application to simulate fire spread over complex topography. FS is being integrated into the CROSS-Fire project, which aims to develop a grid-based risk management decision support system for civil protection (CP).

Previous work focused on (i) parallelisation of the FS execution model and (ii) integration on the EGEE infrastructure to support higher processing/storage capabilities, improved I/O data resolution/models complexity, faster multi-simulation execution and wider simulation areas.

This work stresses the relevance of standards adoption: OGC-WCS/WFS/WPS to exploit/enable geospatial services for data access and processing, and SWE/OGC to address other CP data sources, such as meteorological stations data or satellite images.

The user interface exploits an SDI client, which comply with OGC and EU INSPIRE directives, to give decision makers access to the spatial data infrastructure, to launch simulations on the grid and visualize the fire propagation.

Primary authors: PROENCA, Alberto (Universidade do Minho/Dep. Informática); ESTEVES, António (Universidade do Minho/Dep. Informática); PINA, António (Universidade do Minho/Dep. Informática); OLIVEIRA, Bruno (Universidade do Minho/Dep. Informática); JOEL, Puga (Universidade do Minho/Dep. Informática)

Presenter: PINA, António (Universidade do Minho/Dep. Informática)

Contribution ID: 147

Type: **Poster**

Deployment and evaluation of FIELD-II Matlab ultrasonic simulator on EGEE

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4-biomed

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

Ultrasonic (US) simulation has become a widely adopted method to design and evaluate imaging sequences and image analysis algorithms. Among US simulators, FIELD-II is an acknowledged reference but simulating the acquisition of 3D+t processes like the beating heart requires days of CPU time. A deployment of FIELD-II on EGEE is presented, based on a setup made of VBrowsers (GUI), DIANE (pilot jobs) and MOTEUR (workflow management). Since FIELD-II is developed in Matlab, it is compiled and the resulting binary is run on sites of the biomed VO using the Matlab Compiler Runtime. Data parallelism on lines of the image as well as on the simulated mediums can thus be exploited. Based on an extensive set of experiments, performance and reliability are then discussed. Error causes are identified and solutions to overcome them are proposed. Overall, this first implementation brings the simulation time of a 2D+t cardiac cycle from 16h to 3h and the global error ratio has been reduced from 16% to 2%

Primary author: Mr GINES FUSTER, Carlos (University of Lyon ; CNRS ; CREATIS-LRMN)

Co-authors: Prof. FRIBOULET, Denis (University of Lyon ; CREATIS-LRMN); Dr LIEBGOTT, Hervé (University of Lyon ; CREATIS-LRMN); Dr GLATARD, Tristan (CNRS ; CREATIS-LRMN)

Presenter: Dr GLATARD, Tristan (CNRS ; CREATIS-LRMN)

Contribution ID: 148

Type: **Poster**

A comparison of ARC and gLite on medical imaging use-cases

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4-biomed

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

Based on medical imaging use-cases, a qualitative comparison of ARC and gLite is presented. Regarding data management, ARC and VBrowsers LFC clients are compared to access files stored on EGEE from NorduGrid computing resources. Two scenarios of content-based image retrieval are considered depending on whether data is accessed from a hospital (requiring the use of a VPN) or not. Results show that VBrowsers and ARC clients reach similar performance compared to gLite. In all cases, the VPN overhead is dramatically predominant. To compare job management systems, the MOTEUR workflow manager is interfaced with ARC job submission, enabling the execution on NorduGrid resources of workflows initially developed for EGEE. A comparison is then performed on an application to radiotherapy simulation. On this use-case, ARC's approach of implementing matchmaking on the client side yields better performance than gLite's. The infrastructure overhead is highly predominant though, both for ARC and gLite.

Primary author: Dr GLATARD, Tristan (CNRS ; CREATIS-LRMN)

Co-authors: Prof. MÜLLER, Henning (University of Geneva, University of Applied Sciences Western Switzerland, Sierre); Dr SMIRNOVA, Oxana (NDGF and Institute of Physics, Lund University, Sweden); Mrs CAMARASU-POP, Sorina (CNRS ; CREATIS-LRMN); Dr ZHOU, Xin (University of Geneva)

Presenter: Dr GLATARD, Tristan (CNRS ; CREATIS-LRMN)

Contribution ID: 149

Type: **Poster**

Security Service Challenges in WLCG: SSC3 2009 Results

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

OSCT

Special requirements other than the set up mentioned in the CfA text.

poster area

Abstract

The goal of the LCG/EGEE Security Service Challenge, is to ensure that appropriate communications channels are available, and to investigate whether sufficient information is available to be able to conduct an audit trace as part of an incident response.

Therefore a series of three SSCs with different foci have been run. In particular SSC1 addressed the job tracing capabilities. The focus of SSC2 was the tracing of storage operations. SSC3 finally is a realistic simulation of a security incident. The sites got an alert like: "Consider any activity from the following user as malicious. DN:".

The SSC campaigns have shown to be an useful tool for the sites to check their incident response capabilities and to use the results to improve them.

The SSC3 was meanwhile run twice (in 2008 and 2009). Here we will present the current results and compare them to the 2008 campaign.

Primary authors: SHARMA, Aashish (OSG); TRIANTAFYLIDIS, Christos (unknown); AN-DERRSEN, Pal (CERN); WARTEL, Romain (CERN); GABRIEL, Sven (Nikhef)

Presenter: GABRIEL, Sven (Nikhef)

Contribution ID: 150

Type: **Poster**

Implementing a NGI accounting infrastructure with DGAS

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

INFNGrid - SA1

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

The Distributed Grid Accounting System (DGAS) provides a scalable architecture for accounting of Grid and local CPU and storage usage. In DGAS each site can host a local repository of the own accounting records, the so-called site-level Home Location Register (HLR). A HLR hierarchy can be defined to gather selected sets of usage records.

We present various DGAS deployment scenarios that an NGI can adopt. For example, a NGI-level HLR can be set-up to collect data from the relevant sites, and in parallel, VO-level HLRs can be configured, so that all relevant VO records are separately maintained in dedicated repository. In addition to this, regional HLR can be possibly configured to collect usage records from a subset of NGI sites belonging to a regional Grid.

Access authorization policies are highly customizable, and pricing of the utilized resources is available. DGAS data, can be plotted, also historically, through the HLRmon portal, which supports navigation depending on the user role

Primary authors: CRISTOFORI, Andrea (INFN); GUARISE, Andrea (INFN); FATTIBENE, Enrico (INFN); MISURELLI, Giuseppe (INFN); PATANIA, Giuseppe (INFN); GAIDO, Luciano (INFN); VERONESI, Paolo (INFN); SOLAGNA, Peter (INFN); BRUNETTI, Riccardo (INFN); BAGNASCO, Stefano (INFN); DAL PRA, Stefano (INFN)

Presenter: GUARISE, Andrea (INFN)

Contribution ID: 152

Type: **Poster**

Meeting the needs for a highly efficient and scalable parallel filesystem on the EGEE Grid Sites

Please indicate your preferred day to give a demo.

We plan to present a poster.

3

We plan to present a poster.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SA1

Special requirements other than the set up mentioned in the CfA text.

We do not have any special requirements.

Abstract

The number of data intensive and high throughput applications on the EGEE infrastructure has increased radically over the last few years thus making the need for a robust and highly efficient parallel filesystem more imperative now than ever. Parallel filesystem solutions promise easy integration, great scalability and high reliability. Most implementations, in addition, provide common access to large amount of storage file data while achieving high I/O performance. In the context of the EGEE09 conference we shall illustrate and compare the capabilities and the performance metrics of two widely used parallel filesystems; the commercial GPFS and the open source Lustre parallel filesystems. The two systems will be compared with respect to the installation and configuration process, the maintenance needed and their availability and scalability metrics. Finally, investigations of client compatibility and I/O performances will be performed.

Primary authors: Mr KANELLOPOULOS, Christos (AUTH); Dr THEODOSIOU, Christos (AUTH); Mr ZILASKOS, Dimitrios (AUTH)

Co-authors: Mr TRIANTAFYLIDIS, Christos (AUTH); Mr KOROSOGLOU, Paschalis (AUTH)

Presenter: Mr KOROSOGLOU, Paschalis (AUTH)

Contribution ID: 153

Type: **Demonstration**

Disaster Mitigation on Earthquake in EUAsiaGrid

3

EUAsiaGrid Booth

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EUAsiaGrid Project

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

Earthquake was chose to be the target based on partners' common interest, impacts of casualty and economic loss, regional collaboration in place, domain knowledge and community engagement, and also the technology maturity for gLite. Disaster mitigation lies on accurate risk estimation and then effective mitigation plan could be devised accordingly. Even though global model is available in terms of computing system and data, regional model is necessary for much accurate impact analysis. Moreover, historical data, seismic wave propagation analysis model and also the alleviation strategy have to be taken into account altogether. Though earthquake is still not predictable, in aid of accurate wave propagation analysis, potential hazards could be scrutinized beforehand with designated hypocenter and parameters. A synergetic lifecycle from data collection and management, analysis, mitigation assessment and understanding the sciences could be enforced.

Primary author: YEN, Eric (Academia Sinica)**Presenter:** YEN, Eric (Academia Sinica)

Contribution ID: 154

Type: **Demonstration**

A framework for rapid prototyping e-Science experiments

Please indicate your preferred day to give a demo.

preferably on Monday or Tuesday

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Virtual Laboratory for e-Science

Special requirements other than the set up mentioned in the CfA text.

no we do need special requirement, an Internet connection is enough

Abstract

Grid Technology brings the power of many computers and storage systems geographically distributed to scientists. However, the development of Grid-enabled applications requires knowledge about Grid infrastructure and low-level API to Grid services. The demo will show a high-level environment for rapid prototyping of e-Science experiments which fills the gap between the required complex infrastructure and the various scientific domains. A set of tools are composing this framework, and together they provide full support for the design and execution of scientific experiment over a complex and distributed infrastructure. The tools can be divided in two categories, one for assisting the development and the design of complex experiment and one for executing and enacting these experiments on a fairly heterogeneous and dynamic infrastructure. Applications from the bio-informatics and medical domain will be used to present the core features of the proposed environment.

Primary author: BELLOUM, Adam (University of Amsterdam)

Co-authors: BUBAK, Marian (University of Amsterdam); ZHIMING, zhao (University of Amsterdam)

Presenter: BELLOUM, Adam (University of Amsterdam)

Contribution ID: 155

Type: **Poster**

Bioinformatics Public web interfaces on grid

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

NA4

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

In Biology, scientists are usually seeking simple access to the computers for their analyses. They avoid using the command line to submit and manage their computations, and strongly prefer high level interfaces such as public Web portal or services. Adding the processes to access and use a grid platform could lead to a real nightmare. We focus our works on three main points: credential management, public Web interface, data and job management. Having valid credentials is mandatory for each user of a grid, however most of bioinformatics portals have anonymous access. The EMBRACE project has made recommendations to build Web services for Life Science. Biological data could come from different sources, user's computer or several databanks sites; and each job submitted should have a completion time acceptable regarding the real computing time, even short jobs. We have developed bioinformatics Web interface satisfying these requirements and running the computation on the EGEE grid.

Primary author: MICHON, Alexis (CNRS IBCP)

Co-authors: Dr BLANCHET, Christophe (CNRS IBCP); Dr COMBET, Christophe (CNRS IBCP); Dr BETTLER, Emmanuel (CNRS IBCP); Dr PENIN, Francois (CNRS IBCP); Prof. DELEAGE, Gilbert (CNRS IBCP)

Presenter: MICHON, Alexis (CNRS IBCP)

Contribution ID: 156

Type: **Demonstration**

Deployment of the Chelonia storage system in 30 mins.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

KnowARC, NorduGrid

Special requirements other than the set up mentioned in the CfA text.

Projector and screen

Abstract

Chelonia is a user-friendly, grid-enabled storage system from the developers of the ARC middleware. Chelonia talks fluently with ARC and users can easily upload and download files and collections to the storage cloud managed by Chelonia and share their files (data, photos, movies etc) with any other user of the system. Chelonia is also capable of interacting with other storage solutions, allowing users to map third party storage elements into the storage cloud managed by Chelonia. Chelonia has a distributed, non-intrusive architecture that allows for flexible setup and the elimination of single points of failure. Based on SOAP, Chelonia consists of four web services residing within the ARC service container HED. All the services are replicated and all metadata are consistently replicated to ensure high availability. We aim to demonstrate how a fully operational system can be installed and configured in less than 30 minutes. Additionally we will demonstrate its usability and robustness.

Primary authors: Mr NILSEN, Jon Kerr (University of Oslo, Dept. of Physics, Norway); Mr TOOR, Salman (Dept. of Information Technology, Uppsala University, Sweden); Mr NAGY, Zsombor (NIIF/HUNGARNET, Hungary)

Presenters: Mr NILSEN, Jon Kerr (University of Oslo, Dept. of Physics, Norway); Mr TOOR, Salman (Dept. of Information Technology, Uppsala University, Sweden); Mr NAGY, Zsombor (NIIF/HUNGARNET, Hungary)

Contribution ID: 157

Type: **Demonstration**

Identity federation and data privacy assurance with SOA3

Please indicate your preferred day to give a demo.

Tuesday 22nd morning or Wednesday 23rd afternoon or Thursday 24th afternoon

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

GriFin (Grid for Finance) - <http://www.grifin.eu/>

Special requirements other than the set up mentioned in the CfA text.

Internet access
wide-screen monitor for demonstration

Abstract

SOA3 (pron. soa-cube) is the service-oriented multidomain security solution recently put forward by the Engineering R&D Labs. The SOA3 flexible architecture allows to easily plug-in existing security technologies. SOA3 consists of three core services for authentication, authorization and secure storage. The authentication service provides a common layer to manage heterogeneous authentication credentials. The authorization service streamlines the management and distribution of authorization policies in multidomain environments. The secure storage service allows to (a) protect sensitive data on untrusted storage nodes while (b) harnessing grid resources to parallelize encryption via a context-based strategy.

The online demo will present how a grid service can be protected by SOA3. For this purpose, it will be shown how SOA3 can integrate Shibboleth, for identity federation, the MyProxy and the Globus SimpleCA, for X.509 credentials management, and VOMS, for VO attributes management.

Primary authors: Mr GIAMMATTEO, Gabriele (Engineering Ingegneria Informatica S.p.A.); Mr GALIERO, Giulio (Engineering Ingegneria Informatica S.p.A.); Mr ROCCETTI, Paolo (Engineering Ingegneria Informatica S.p.A.)

Presenters: Mr GIAMMATTEO, Gabriele (Engineering Ingegneria Informatica S.p.A.); Mr GALIERO, Giulio (Engineering Ingegneria Informatica S.p.A.)

Contribution ID: 158

Type: **Poster**

The IGI Operations Infrastructure

Special requirements other than the set up mentioned in the CfA text.

None

3

This is a poster abstract, we don't need a demo booth.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE-III SA1

Abstract

The Italian Grid Infrastructure focuses on setting up and operating a common Grid e-Infrastructure for the Italian user communities. IGI will comprise heterogeneous resources from many public Resource Providers, regional and institutional infrastructures, and Grid projects, to meet a wide variety of user needs.

IGI will be responsible of running both international and national operational tasks to fully inter-work within EGI at the European-level, and with regional/institutional Grids and HPC centers at the national level.

We focus on the problem of the national integration needed to meet the local requirements. In particular, we provide an overview of the sites and resources in the region, we describe the IGI operations activities, and we present an overview of deployment scenarios for some operational IGI infrastructures.

We illustrate the DGAS-based accounting system, the monitoring framework, the helpdesk system for support of regional, national and international user communi

Primary authors: MURA, Daniele (INFN Cagliari); MASSAIOLI, Federico (CASPUR); GAIDO, Luciano (INFN Torino); REALE, Mario (GARR); Dr FERRARI, Tiziana (INFN CNAF)

Presenter: Dr FERRARI, Tiziana (INFN CNAF)

Contribution ID: 160

Type: **Demonstration**

Availability Monitoring in EGEE and Beyond

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE SA1 Operations Automation Team (OAT) and Service Availability Monitoring (SAM)

Special requirements other than the set up mentioned in the CfA text.

Occasional light refreshments

Please indicate your preferred day to give a demo.

Preferred time: Tuesday afternoon.

If that's impossible, sometime on Wednesday.

Abstract

This demo will describe in detail the Nagios monitoring infrastructure that has been developed to replace SAM in the post-EGEE era. It will show how all the components, such as the Aggregated Topology Provider, Metrics Description Database, Metric Results Store, Nagios Config Generator, Message Bus and the new MyEGEE portal, all tie together.

The components are available for deployment in regions and NGIs alike.

The overall flow of a metric in the Nagios infrastructure will be used as the thread for the demo.

Primary author: SHADE, John (CERN)

Co-authors: Ms NOVAK, Judit (CERN); SKABURSKAS, Konstantin (CERN); LAPKA, Wojciech (CERN)

Presenters: SHADE, John (CERN); Ms NOVAK, Judit (CERN); SKABURSKAS, Konstantin (CERN); LAPKA, Wojciech (CERN)

Contribution ID: 161

Type: **Demonstration**

Weather simulations on the GRID using WRF4G

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

This is an EELA2 application running also in the ESR-VO

Special requirements other than the set up mentioned in the CfA text.

No special requirements

Abstract

WRF for GRID (WRF4G) is a port of the WRF Modelling System to the GRID. Small modifications to the source code of the model allow the monitoring and output data management in a flexible way. In addition to the model, the WRF Grid Enabling Layer (WRF4GEL) is an interface between the model and the GRID, allowing the model to inform about its status, get the required input data and save the output data to the GRID.

Limited area models (LAMs) require a large amount of input data to build the boundary conditions. The heterogenous GRID infrastructure is subject to common failures and intermittent availability of resources the numerical weather models are not prepared for. For those reasons, in this contribution we present a new execution framework providing a software wrapper for a numerical weather model. A wrapper for the WRF Model has been developed to enable LAM simulations on the GRID. This WRF for GRID wrapper (WRF4G) is "gridifying" a complex workflow application as the WRF System.

Primary authors: Dr COFIÑO, Antonio S. (Universidad de Cantabria); Dr FERNANDEZ, Jesus (Universidad de Cantabria); Dr FITA, Lluís (Universidad de Cantabria); Mrs FERNANDEZ-QUIRUELAS, Valvanuz (Universidad de Cantabria)

Presenter: Dr COFIÑO, Antonio S. (Universidad de Cantabria)

Contribution ID: 162

Type: **Poster**

gqsub: Grid computing at the Mesoscopic scale

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Scotgrid
NA4 regional coordination

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

This poster describes an innovative approach to increase adoption of Grid systems - building an interface to Grid systems that conforms to the local interface that users are used to.

Nearly all cluster batch systems provide interfaces that conform to the IEEE 1003.1 (Posix) standard: qsub and friends. Working under the name gqsub, this work implements the key features of qsub that are supported by the gLite WMS, including mapping of array jobs onto parametric jobs. A qstat style interface is provided, to facilitate monitoring of jobs.

Matching the expectations of the user, this work reduces the barrier to adoption for those users who are experienced in with cluster computing - a significant number of e-science researchers.

Early trials with users show that this style of interface holds promise for bridging the cognitive gap between local and remote jobs. Detailed trials are underway and will be reported in the poster.

Primary authors: Prof. DOYLE, Anthony (University of Glasgow); Dr PURDIE, Stuart (University of Glasgow-Unknown-Unknown)

Presenter: Dr PURDIE, Stuart (University of Glasgow-Unknown-Unknown)

Contribution ID: 163

Type: **Demonstration**

EU-Asia seed of a global surveillance network for flu pandemics

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

This work is partially supported by the EU Funded EUAsiaGrid project

Special requirements other than the set up mentioned in the CfA text.

No

Abstract

The present demonstration shows the integration of existing data sources towards a global surveillance network for molecular epidemiology, based on Service Oriented Architecture and Grid technologies. Its relevance is being tested through the current H1N1 outbreak. The idea is to dynamically analyze the molecular biology data, made available on public databases (such as IVR, IVDB, or EpiFlu), using computing, storage and automatic updating services offered by Grid. Bioinformatics methods of sequence alignment will highlight mutations on virus genome. Phylogenetic analyzes will characterize evolutionary history, key point to understand the geographic and molecular source of this outbreak where the virus seems to be a reassortant from avian and human forms. Dynamical database management and deployment of phylogenic workflow on EGEE and EUAsiaGrid resources will be presented using the interoperable WISDOM production environment. The goal is to be ready to impact the next pandemics.

Primary authors: Ms DA COSTA, Ana Lucia (HealthGrid, France); Mr BRETON, Vincent (CNRS-IN2P3, France)

Co-authors: Mr BERNARD, Aurélien (CNRS-IN2P3, France); Mr WEI, Christian (CNRS-IN2P3, France); Mr NGUYEN, Hong Quang (IFI, Vietnam); Mr SALZEMANN, Jean (CNRS-IN2P3, France); Mr FITZPATRICK, John (CDC, Atlanta); Mr HWANG, Soonwook (KISTI, South Korea); Mr DOAN, Trung Tung (IFI, Vietnam); Mr BLOCH, Vincent (CNRS-IN2P3, France); Mr LEGRE, Yannick (HealthGrid, France & maat Gknowledge, Spain)

Presenter: Mr BERNARD, Aurélien (CNRS-IN2P3, France)

Contribution ID: 164

Type: **Poster**

A Service for Turning Alerts into Messages

3

No

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

SEE-GRID-SCI (SEE-GRID eInfrastructure for regional eScience)

Special requirements other than the set up mentioned in the CfA text.

No

Abstract

A service providing monitoring and operational tools with shared alert notification capability is being implemented for SEE-GRID infrastructure. This service, called AMS, provides a common solution for delivering alarms to grid site administrators through e-mail, SMS and immediate messaging. AMS receives alerts through a web service interface provided to monitoring and ticketing systems like SAM, Nagios and OneOrZero based tools of SEE-GRID infrastructure. The site administrators configure notification rules by defining message destinations and notification filtering and grouping policies for individual sites and alert categories. Besides putting these rules into practice, AMS offers a web front end for observing related alert and message logs. The usage of AMS should improve response times, reduce message clutter, and centralize notification policies. It can be also used by other related monitoring tools, like those observing the underlying network infrastructure.

Primary authors: Dr MAROVIC, Branko (University of Belgrade); Mr POTOČNIK, Milan (University of Belgrade)

Presenter: Dr MAROVIC, Branko (University of Belgrade)

Contribution ID: 165

Type: **Poster**

LitGrid as NGI - a long term research, service and infrastructure program

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

BalticGrid-II project

Special requirements other than the set up mentioned in the CfA text.

Poster will have A0 format and will require a flat vertical surface to be posted.

Abstract

LitGrid program is financed by the Lithuanian State and exposes all the features of NGI. It embodies 13 partners – most active universities and research institutions. The infrastructure includes more than 490 CPUs, 40 TB, communication network uses NREN. Applications cover computing needs at national level (Baltic Sea ecosystem modeling, engineering tasks framework, nano particles research, biomedicine and imaging, research in linguistics), as well as effectively support cooperation of scientists at international level (like ITER, Astrophysics, TextGrid projects, COST, BOOS programs, etc.). LitGrid is well integrated with infrastructure of Baltic States, Sweden and Poland (BG-II project: BG-CA, WMS and RB services, information system, others). Special attention and support is given to cooperation with Belarus: development and sharing of infrastructure and applications. The future transition of LitGrid to EGI infrastructure will be presented.

Primary author: JUOZAPAVICIUS, Algimantas (Faculty of Mathematics and Informatics-Vilnius University-Unknow)

Co-authors: Dr MAZEIKA, Dalius (VGTU); Dr TAMULIENE, Elena (ITPA); Dr PAULIKAS, Kestutis (KTU)

Presenter: JUOZAPAVICIUS, Algimantas (Faculty of Mathematics and Informatics-Vilnius University-Unknow)

Contribution ID: 166

Type: **Demonstration**

Medical Data Manager graphical interface: a medical browser for the EGEE grid

Please indicate your preferred day to give a demo.

We will appreciate to make our demonstration Tuesday, 22 September. But anyother day will be fine.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

User Community Expansion and Support : NA4

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

The new graphical interface of the Medical Data Manager (MDM) enables to search for medical images in DICOM compliant systems such as a PACS (Picture Archiving and Communication Systems) throw the EGEE grid. The complexity of the MDM is hidden by the graphical interface that gives an easy way to search for patient information or medical pictures from multiple medical site as radiology enterprise, hospital or medical image analysis site. To ensure the strong medical data protection required, the MDM, developed in the context of the EGEE project, uses gLite components to enable strict data access control and encryption. The graphical interface is completed by the Moteur workflow engine that runs complex medical workflows on the grid and the VisioNeuroLog software of Visioscopie that provide a professional DICOM viewer.

Primary author: Mr TEXIER, Romain (CNRS - I3S - EGEE)

Presenter: Mr TEXIER, Romain (CNRS - I3S - EGEE)

Contribution ID: 167

Type: **Poster**

Electrophysiology Data Analysis and Computing in Grid

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

BalticGrid-II project

Special requirements other than the set up mentioned in the CfA text.

Poster will have A0 format and will require a flat vertical surface to be posted.

Abstract

Biomedical signals provide rich information about human health. Usually long-term monitoring is required in diagnosis and treatment of disease. Analysis of electrophysiological data is usually done manually by neurologist and is much time consuming. In poster the system of electrophysiology data computing and analysis using grid infrastructure is presented. The system includes EEG signal features detection, attributes and parameters computing, database construction, algorithms for some physiological phenomena (like epilepsy) detection and characterization., it posses huge amounts of data and make various analyses on it. The grid infrastructure (from BalticGrid-II project) is used for many applications and algorithms of the system. EDF standards are used for EEG files, many algorithms are implemented in Octave environment (open source analog of Matlab), and together with Octave are gridified and deployed in clusters of BalticGrid infrastructure.

Primary author: Prof. JUOZAPAVICIUS, Algimantas (Faculty of Mathematics and Informatics, Vilnius University-Unknow)

Co-authors: Dr KAZAKEVICIUTE, Margarita (VU, Faculty of mathematics and Informatics); Mrs SAMAITIENE, Ruta (VU, Faculty of Medicine); Prof. USONIS, Vytautas (VU, Faculty of Medicine)

Presenter: Prof. JUOZAPAVICIUS, Algimantas (Faculty of Mathematics and Informatics, Vilnius University-Unknow)

Contribution ID: 168

Type: **Poster**

MetaCentrum, the Czech virtualized NGI

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

MetaCentrum, Czech NGI

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

MetaCentrum, the Czech NGI, started to virtualize the infrastructure already several years ago. Virtual clusters were introduced as a new service, providing an illusion of totally dedicated clusters under complete user control running on a shared infrastructure, including administrator access. Virtual machines and clusters are handled in a way similar to ordinary computation jobs, planned for batch or interactive processing. We developed an extension to job scheduler PBSPro and new management tools to smoothly integrate virtual cluster service into NGI environment. Networking is also a vital part of the service, where Czech NREN CESNET2 technology allows managing virtual cluster network without perceivable overhead. Virtual network becomes a new resource, that can be attached to user's home network. Benefits of this fully integrated virtualized infrastructure will be demonstrated through series of usecases.

Primary authors: ANTOŠ, David (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); SITERA, Jiri (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); MATYSKA, Luděk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); HEJTMÁNEK, Lukáš (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); MULÁČ, Miloš (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); RUDA, Miroslav (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); HOLUB, Petr (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); ŠUSTR, Zdeněk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic)

Presenters: SITERA, Jiri (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); ŠUSTR, Zdeněk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic)

Contribution ID: 169

Type: **Poster**

Logging and Bookkeeping (LB) and CREAM

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

EGEE III JRA1

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

Logging and Bookkeeping (LB) keeps a short-term trace of grid jobs as they are processed by individual grid components. That trace is transformed into single job status information available to grid users and monitoring systems such as RTM or Dashboard. In production LB is used to track jobs managed by gLite WMS but it is designed to support also other job types. We deployed LB over PBS recently, there is an experimental Condor support.

We describe integration with CREAM, allowing native CREAM jobs to appear in LB regardless of their submission channel (gLite WMS, directly, ...). There are immediate benefits for the users – job status information in homogeneous way, and advanced LB features (notifications, complex queries), as well as indirect ones – native CREAM jobs are captured by high level monitoring tools connected to LB.

We illustrate some technical details (involved components, CREAM-specific job state machine in LB) and report on current state of this ongoing work.

Primary authors: KŘENEK, Aleš (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); DVOŘÁK, František (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); SITERA, Jiri (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); MATYSKA, Luděk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); SGARAVATTO, Massimo (INFN); RUDA, Miroslav (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); SALVET, Zdeněk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); ŠUSTR, Zdeněk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic)

Presenters: KŘENEK, Aleš (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); SITERA, Jiri (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic); ŠUSTR, Zdeněk (CESNET z.s.p.o., Zikova 4, 160 00 Praha 6, Czech Republic)

Contribution ID: 170

Type: **Poster**

Virtual Working Nodes in gLite Middleware

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

none

Special requirements other than the set up mentioned in the CfA text.

none

Abstract

We extend gLite middleware so as to create virtual Working Nodes (VWN) that run in actual Working Nodes (WN) in the Grid. The VWNs are in fact Virtual Machines (VM), which have specific characteristics. One could argue that a different approach would be to run VM as jobs; however, by the proposed approach we can take advantage of the rich and sophisticated functionalities provided by gLite middleware regarding the management of the WNs. The VWNs are initiated, either statically or dynamically. In the first case the user dictates the Workload Management System (WMS), through its Job Description File that for a job's execution, a new VWN has to be initiated. In the second case the WMS decides, based on the Grid load, to create new VWNs or destroy existing ones. By using VWNs one can execute in the same machine jobs that require different configurations. Moreover, the creation of VWNs can enhance the performance of the Grid, by applying cpu sharing related scheduling policies.

Primary authors: Mr KRETSIS, Aristotelis (RACTI); Prof. VARVARIGOS, Manos (RACTI); Mr KOKKINOS, Panagiotis (RACTI)

Presenter: Mr KOKKINOS, Panagiotis (RACTI)

Contribution ID: 171

Type: **Poster**

g-Eclipse - user and developer friendly access to gLite and cloud resources

3

Poster

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

g-Eclipse project, <http://www.eclipse.org/geclipse>

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

g-Eclipse is a user-friendly graphical client for accessing grid and cloud resources. It provides a common user interface for all supported middlewares, and bases on a middleware independent abstraction layer which can be used by software developers to grid-enable their applications. Furthermore, being a pure Java implementation, g-Eclipse runs on any Java platform (e.g. Windows, Linux, Mac OS, etc.) without any additional requirements such as a native UI installation.

g-Eclipse provides support for the gLite and GRIA Grid middlewares, as well as for the Amazon WebServices cloud computing offers. The data management component allows for the seamless interoperation of storage accesses across different middlewares, for instance by drag-and-drop. Furthermore, the tool provides Grid job management functionality including a graphical job description editor, automatic job status update, parametric job creation, a batch system management component, scientific visualization support, etc.

Primary author: Dr GARCIA, Ariel (FORSCHUNGSZENTRUM KARLSRUHE)

Co-authors: Dr KORNMEYER, Harald (NEC Laboratories Europe); Dr STUEMPERT, Mathias (1&1 Internet AG)

Presenter: Dr GARCIA, Ariel (FORSCHUNGSZENTRUM KARLSRUHE)

Contribution ID: 172

Type: **Poster**

Earth Science Activity on Grid

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

ES Cluster, Cyclops, SEEGrid...

Special requirements other than the set up mentioned in the CfA text.

Nothing special - a board to install the poster

Abstract

Earth Science is an all embracing term for sciences related to the planet earth covering a large and diverse user community, academy, organisation and industry. Many applications in various disciplines have been already ported on Grid and also different technical tools have been developed. The Grid ES partners are scattered in 7 Virtual Organisations related to EGEE and some others outside EGEE. Building the ES Grid community consists firstly of providing an overview of what each team is doing and then to initiate collaborations. This poster is also an opportunity to provide to the other scientific communities an overview of the ES activity on Grid, to interact with them and possibly to extend the ES Grid community

Primary author: Dr PETITDIDIER, Monique (IPSL/LATMOS)

Presenter: Dr PETITDIDIER, Monique (IPSL/LATMOS)

Contribution ID: 173

Type: **Demonstration**

neuGRID - A Grid-Brained Infrastructure to Understand and Defeat Brain Diseases

Please indicate your preferred day to give a demo.

No preference

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

European FP7 neuGRID project: www.neugrid.eu
Platform available at: <http://neugrid.healthgrid.org>

Special requirements other than the set up mentioned in the CfA text.

A regular Internet connection

Abstract

Launched early 2008 by the EC Research Infrastructure Unit, the neuGRID project aims to establish a distributed e-Infrastructure interconnecting major clinical research centres in Europe, ultimately supplying neuroscientists with the most advanced ICT to defeat Alzheimer's disease and neurodegenerative pathologies in general. Based on EGEE gLite, neuGRID is pioneering a harmonized and powerful environment to develop and assess new disease markers. The recently deployed infrastructure already offers a promising algorithm pipeline, i.e. the analysis of cortical thickness from 3D magnetic resonance brain images, as a demonstrator of its underlying computing engine capacity. The proposed demonstration will show the results of neuGRID's current analysis challenge which consists in using the grid to execute the former pipeline on the large US-ADNI dataset to assess this imaging disease marker. This will be the 1st time such a challenge is undergone in the neuroscientific community.

Primary authors: Mr MANSET, DAVID (MAAT GKnowledge); Dr FRISONI, Giovanni (I.R.C.C.S Fatebenefratelli)

Co-authors: Dr ZIJDENBOS, Alex (PRODEMA Informatics); Prof. MCCLATCHEY, Richard (University of the West of England); Mr LEGRE, Yannick (HealthGrid)

Presenter: Mr MANSET, DAVID (MAAT GKnowledge)

Contribution ID: 174

Type: **Poster**

Towards a Reference Model for the LifeWatch ICT Infrastructure

Special requirements other than the set up mentioned in the CfA text.

none

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

LifeWatch

3

LifeWatch booth

Abstract

The technical vision for LifeWatch is a network of services providing secure access across multiple organisations to biodiversity related data and to relevant analytical and modelling tools to collaborative groups of researchers. The infrastructure will be implemented using the ideas of "Service Networks", Spatial Data Infrastructures, and Grid Computing.

The LifeWatch Reference Model provides the basis for an interoperable ICT infrastructure for European biodiversity research building on standards whenever feasible. Distinguishing features will be support of workflow for scientific in-silico experiments, tracking of provenance, and semantic support for interoperability.

The LifeWatch Reference Model builds on principles such as reusability, modularity, portability, interoperability, discoverability, and compliance with standards. It specifies an architectural approach that constitutes a solid conceptual basis for supporting these principles.

Primary authors: Mr POIGNE, Axel (Fraunhofer Institute IAIS); Ms HERNANDEZ, Vera (Fraunhofer Institute IAIS)

Co-authors: Mr HARDISTY, Alex (Cardiff School of Computer Science); Mr VOSS, Hans (Fraunhofer Institute IAIS); Mr GIDDY, Jonathan (Cardiff School of Computer Science); Mr BERENDSOHN, Walter (Freie Universität Berlin, Botanischer)

Presenters: Mr POIGNE, Axel (Fraunhofer Institute IAIS); Ms HERNANDEZ, Vera (Fraunhofer Institute IAIS)

Contribution ID: 175

Type: **Demonstration**

LiveWN: Desktop Grids are as simple as using a CD

Please indicate your preferred day to give a demo.

Thursday or Friday.

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

“The usage of EDGeS services for EGEE users” track will host a session were LiveWN will be included.

Special requirements other than the set up mentioned in the CfA text.

a network connection with the form of UTP (standard copper cable) and a small 12-port switch would be greatly appreciated, since some laptops' WiFi support doesn't cooperate well with Scientific Linux.

Abstract

LiveWN was initially prototyped in year 2006 as a bootable CD with Scientific Linux, supporting diskless, easy-to-deploy grid Worker Nodes, requiring virtually zero administration upon deployment. Recent evolutions during year 2009 brought even more results:

- * scalability and reliability tests over WAN deployment scenarios,
- * integration with Shibboleth (ShibGrid) and,
- * design prototype for a deployment on an infrastructure with a potential of 60000+ nodes.

LiveWN mixes key technologies including LiveCD (a self-booting Linux CD), gLite (the grid middleware stack), OpenVPN (virtual private network) and OpenAFS (open distributed filesystem). It includes a full desktop environment and some extra scientific software, including a set of tools in relation to the high energy physics project ATLAS, Wine, PovRay and other. LiveWN implements also a convenient UI (User Interface) from which all grid resources are available (EGEE and LCG VOs, combined with all Desktop Grid resources)

Primary authors: Mr GEORGATOS, Fotis (ETHZ/NTUA); Mr KOURETIS, Giannis (NTUA); Prof. ALEXOPOULOS, Theodoros (NTUA); Prof. TSIPOLITIS, Yorgos (NTUA)

Presenter: Mr KOURETIS, Giannis (NTUA)

Contribution ID: 176

Type: **not specified**

Astronomical GRID applications at the European Space Astronomy Centre

Track Classification: End Users (Applications)

Contribution ID: 177

Type: **not specified**

Overview of the main areas of "EGI" relevant to Heavy Multi-National Users

Wednesday, 23 September 2009 14:30 (45 minutes)

Session Classification: A Specialised Support Centre for Large International Scientific Communities: Grid Services and Support for the WLCG, HEP and Related Communities

Contribution ID: 178

Type: **not specified**

Services for Heavy Users of DCIs

Wednesday, 23 September 2009 15:15 (1h 15m)

Session Classification: A Specialised Support Centre for Large International Scientific Communities: Grid Services and Support for the WLCG, HEP and Related Communities

Contribution ID: 179

Type: **not specified**

Specialised Support Centre: communities supported & workplan

Wednesday, 23 September 2009 17:00 (1h 30m)

Session Classification: A Specialised Support Centre for Large International Scientific Communities: Grid Services and Support for the WLCG, HEP and Related Communities

Contribution ID: **180**

Type: **not specified**

Next steps in Proposal Preparation & Wrap-up

Wednesday, 23 September 2009 18:30 (30 minutes)

Abstract

Important dates:

ROSCOE meeting - week of October 26 in Orsay

EGI SSC meeting - Tuesday 3rd November at CERN (WLCG MB F2F and GDB are following week)

Deadline for proposal submission - November 24 17:00 Brussels time

Session Classification: A Specialised Support Centre for Large International Scientific Communities: Grid Services and Support for the WLCG, HEP and Related Communities

Contribution ID: **181**

Type: **not specified**

EGEE and Business - Now and in the future

Wednesday, 23 September 2009 11:05 (10 minutes)

Abstract

This talk opens the EGEE'09 Business Track and briefly outlines how EGEE is assisting businesses, new and old, to capitalise on EGEE's Open Source Grid Technologies, demonstrating the major value delivered by Grid through improving business performance and enabling companies to do new things and how EGEE is moving into the future.

Presenter: NEWHOUSE, Steven (CERN)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 182

Type: **not specified**

BEinGRID: business pilots connecting distributed computing for today's challenges

Wednesday, 23 September 2009 11:15 (20 minutes)

Abstract

BEinGRID, Business Experiments in GRID, is successfully conducting real-world experiments targeting industry and research organisations to provide, use and validate Grid technologies to meet business challenges.

The 98 partner project has run twenty-five targeted Business Experiments (BEs) designed to implement and deploy Grid solutions across major European business sectors (including the medical, financial, logistics, manufacturing, retail, tourism and textile sectors).

Each one of these pilots is a real Grid application focusing on specific business challenges addressing current customer needs. A full case study guide of the first wave of pilots can be found on our website, www.beingrid.eu.

To support these vertical pilots, BEinGRID employs several horizontal business and technical teams that not only support and help develop the BEs' Grid solutions, but have made several advances in analyzing the surrounding market and developing technical innovation.

During its three year run, the project has also created an ongoing repository. This has steadily evolved into a much broader site focused on the future of distributed computing, branching out from its Grid roots to other business adaptable technology and services, such as Clouds, Virtualization, and SaaS. Gridipedia (www.gridipedia.eu) represents a new age of business solutions.

Presenter: RISTOL, Santi (Atos Origin)

Session Classification: EGEE'09 Business Workshop

Contribution ID: **183**Type: **not specified**

BEinGRID components: Methodology and SLA example

Wednesday, 23 September 2009 15:10 (20 minutes)

Abstract

The talk will focus on the methodology followed in the BEinGRID project. The project offered in a first wave 18 Business Experiments which demonstrated that Grid technology could be applied to solve business problems. These problems have been analysed in various transversal activities, which extracted generic requirements, then abstract capabilities, then software design patterns. This then lead to the implementation of software components, which are specifically created to solve the initial business problems. A second wave of 6 Business Experiments validated the components by applying in new situations. The exemplary case of the SLA business needs will be presented.

Presenter: ROSENBERG, Igor (Atos Origin)

Session Classification: EGEE'09 Business Workshop

Contribution ID: **184**Type: **not specified**

Gridipedia: From Service-oriented IT to Business Value

Wednesday, 23 September 2009 11:35 (20 minutes)

Abstract

Independent and trustworthy information sites play an important role in the growth of a new sector and the uptake of a new technology. Society- and the market – has become sceptical of marketing literature and with the rise of the Internet, indeed of information itself. The modern information site must be up-to-date, vendor-independent and highly distilled. Gridipedia is one such site. It was set up during the BEinGRID project as a “second front” to increase the uptake of Grid and related technologies such as Cloud and virtualization. This presentation will discuss how Gridipedia faced the challenges mentioned above, as well as the swift market swing from “Grid” to “cloud”, to continue after the project as a commercial endeavour.

Presenter: FIELD, Daniel (Atos Origin)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 185

Type: **not specified**

Business and Technology Transfer for EGI

Wednesday, 23 September 2009 11:55 (20 minutes)

Abstract

E-Science and e-Infrastructures (made of network and grid layers) are considered key enablers of progress and sustainable development and the European Commission has heavily invested in the last 8-10 years to fund e-Infrastructures as building blocks of the European Research Area (ERA). Project-based initiatives are consolidating themselves into long term dependable realities (GEANT and EGI) supporting many scientific disciplines and end users. However, if one compares the cost per user of grids with that of a network user, the result is striking: grids are much more expensive than networks. The only way to sustain and justify these investments, in these times of world crisis, is to rapidly and widely enlarge the base of users through an intensive and capillary dissemination and training which percolates into the University curricula and includes an effective technology transfer towards the worlds of business and industry. A “workflow” is needed to drive as many present and future researchers and technologists as possible from a condition of e-Infrastructure “unawares” to a condition of “day-by-day” users.

This talk will highlight a proposed Specific Support Center for EGI highlighting business and technology transfer aspects.

Presenter: ÖSTER, Per (CSC, Finland)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 186

Type: **not specified**

Towards the new EGI governance model

Tuesday, 22 September 2009 14:30 (15 minutes)

Abstract

In July this year the EGI Collaboration has been formed on the basis of a Memorandum of Understanding (MoU), that by now has been signed by 29 participants (27 NGIs and 2 EIROs). This MoU paves the way for the establishment of a legal entity (a foundation under Dutch law called "EGI.eu"), that will in particular be responsible for coordinating and facilitating grid activities in Europe. All signatories to the MoU are likely to become a participant in this foundation. The design of the governance structure will be presented, as is currently being discussed within the EGI Collaboration on the basis of the draft statutes for the legal entity.

Presenter: ARJEN, Van Rijn (NIKHEF)

Session Classification: Governance models for the long-term sustainability model of EGI

Contribution ID: **187**

Type: **not specified**

The EC legal framework & how will it work in the future

Tuesday, 22 September 2009 14:45 (15 minutes)

Abstract

A new legal instrument for the setting up of European Research Infrastructures has newly entered into force on 28 August 2009. Annika Thies, European Commission, will explain the key features of the ERIC Regulation and how it can be used.

Presenter: THIES, Annika (European Commission)

Session Classification: Governance models for the long-term sustainability model of EGI

Contribution ID: 188

Type: **not specified**

e-IRG White Paper Recommendations in the context of EGI - Governance models paradigms

Tuesday, 22 September 2009 15:00 (15 minutes)

Abstract

The talk will mainly deal with two major items: the e-IRG White paper recommendations in the context of EGI and governance model paradigms for European and national e-Infrastructures. The first will encompass governance and funding recommendations, as well as recommendations on the cooperation with the supercomputing e-Infrastructure towards a unified e-Infrastructure environment. The latter will comprise governance models for major European and national e-Infrastructures such as in the area of Research Networking and Grids, presenting the different approaches undertaken by various European organisation and countries.

Disclaimer: The views expressed in this talk reflect the opinions of the author and not necessarily of the referred organisations

Presenter: KARAGIANNIS, Fotis (Independent Consultant)

Session Classification: Governance models for the long-term sustainability model of EGI

Contribution ID: 189

Type: **not specified**

eResearch2020: Roadmap of strategies supporting e-Infrastructure policies

Tuesday, 22 September 2009 15:15 (15 minutes)

Abstract

In this talk, we present selected results of a systematic study of different types of e-Research infrastructures. The results presented here are based on ongoing research (<http://www.eresearch2020.eu/>) to compare a range of e-Infrastructures of broad diversity focusing on: geographical diversity, representing efforts from around the globe; disciplinary diversity, including the natural sciences, social sciences and humanities; organizational diversity, for example, multi-institutional or federated; diverse levels of maturity, from those in the planning stage to those with a well-established user base; and diverse types of target user communities such as specialized niche, discipline-wide, or generic infrastructures. We will discuss some general features that distinguish between different types of infrastructures across different fields of research.

Previous analyses of e-Infrastructures have focused on the parallels between these infrastructures and the major infrastructures in society that support national populations. What our cases highlight instead is that e-Infrastructures consist of multiple types of overlapping and intersecting socio-technical configurations that serve quite diverse needs and groups of users. Indeed, the very term 'infrastructures' may be misleading insofar as it connotes support of whole communities of researchers on a large scale, which is currently still premature. The research derives implications of this heterogeneity for the future outlook on e-Infrastructures in the form of a roadmap.

Presenter: SCHROEDER, Ralph (Oxford Internet Institute, University of Oxford)

Session Classification: Governance models for the long-term sustainability model of EGI

Contribution ID: 190

Type: **not specified**

The ESFRI roadmap and best practices in e-Infrastructures policy making

Tuesday, 22 September 2009 15:30 (15 minutes)

Abstract

This talk will briefly describe the function of the European Strategy Forum on Research Infrastructures (ESFRI). Alf Game will describe the experience of the e-infrastructures working group of ESFRI in looking at the e-infrastructural requirements of the emerging roadmap and discuss the implications of this for future European e-infrastructure provision.

Presenter: GAME, Alf (BBSRC)

Session Classification: Governance models for the long-term sustainability model of EGI

Contribution ID: **191**

Type: **not specified**

Panel Discussion

Tuesday, 22 September 2009 15:45 (45 minutes)

Abstract

Panel Moderator: David Wallom (OeRC)

Panel Members: Steven Newhouse (CERN), Dieter Kranzlmüller (LMU),
Aerts PATRICK (NCF)

Presenters: PATRICK, Aerts (NCF, The Netherlands); Dr WALLOM, David (OeRC); Prof. KRANZLMÜLLER, Dieter (Ludwig-Maximilians-Universität München); Dr NEWHOUSE, Steven (CERN)

Session Classification: Governance models for the long-term sustainability model of EGI

Contribution ID: 192

Type: **not specified**

StratusLab - Enhancing Grid Infrastructures with Cloud Computing

Wednesday, 23 September 2009 14:30 (20 minutes)

Abstract

StratusLab is a research initiative aimed at exploring the integration of cloud technologies and services, especially virtualisation, into existing Grid Infrastructures. Hybrid platforms combining aspects of Grid and Cloud technologies would offer advantages both to resource providers and to end-users. Using cloud technologies for resource provisioning would enhance failover and redundancy solutions, provide “elastic” sites able to expand available resources, and permit machine migration for flexible load balancing.

The underlying virtualization would allow end-users to tailor their computing environment to avoid failures from misconfigured systems or from insufficient allocations of, for example, disk and memory. Grid technologies would continue to provide the glue to federate the distributed resources and the services for high-level job and data management. Equally, the provision of IaaS delivery paradigms in addition to existing Grid services would attract the science user communities and industrial users that have embraced the cloud computing provisioning model. Cloud-like interfaces would providing a new way to access to the same underlying Grid site infrastructure without replacing the Grid functionality.

Presenter: LOOMIS, Cal (CNRS)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 193

Type: **not specified**

ATLAS Spanish Tier2 experiences during the STEP09 period

Tuesday, 22 September 2009 14:30 (30 minutes)

Abstract

The goal is to cover the major Tier-2 activities: montecarlo production, data distribution and the hammercloud user analysis challenge during the recent STEP09 exercise from a site point of view (in this case the ATLAS Spanish Tier2). And our interaction with our Tier1.

On the other hand our Tier2 is federated and the resources are distributed among Barcelona (25%), Madrid (25%) and Valencia (50%).

Presenter: GONZALEZ DE LA HOZ, sgonzale@ific.uv.es (IFIC-Valencia)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: 194

Type: **not specified**

Grid based search – from Project to Commercialization

Wednesday, 23 September 2009 15:30 (20 minutes)

Abstract

In collaboration with the University of York UK, Cybula Ltd. has been developing a Grid based distributed signal search system, Signal Data Explorer, and taking this to the market with major customers such as Rolls-Royce Aeroengines. SDE is used to manage, visualize and pattern match over large distributed databases of signal data, allowing users to undertake operations such as diagnostics and prognostics. The tool was developed within the UK eScience projects DAME and BROADEN as well as the latest project CARMEN. This talk will highlight the issues in taking the technology to market from a large research project.

Prof. Jim Austin is the CEO of Cybula Ltd. and holds a chair in the Department of Computer Science at the University of York, UK. His experience is in neural network based pattern matching and GRID technology and has taken a number of new technologies to market.

Presenter: AUSTIN, Jim (Cybula Ltd.)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 195

Type: **not specified**

Software Licensing in the EGEE grid infrastructure: The experience of MATLAB

Wednesday, 23 September 2009 17:00 (20 minutes)

Abstract

A large number of scientific communities are currently exploiting the EGEE grid infrastructure. Although much of their work is based on in-house or open-source software, many stages of their application workflow require the usage of licensed software be it commercial or non-commercial. This talk will give an overview of the situation concerning exploitation of licensed software by the EGEE User Communities and will present the specific example of MATLAB Distributed Computing Server (MDCS) which has been ported to EGEE in collaboration with The MathWorks.

Presenter: FLOROS, Vangelis (GRNET)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 196

Type: **not specified**

GRIA B2B solutions and business benefits

Wednesday, 23 September 2009 17:20 (20 minutes)

Abstract

GRIA was the first middleware designed for commercial provision of Grid services and is the core technology used in some of the most successful experiments in the EU IST BEinGRID project. In BEinGRID, GRIA was deployed in the advanced manufacturing, finance, logistics and tourism sectors, integrating with a wide variety of software and platforms. GRIA solved the general problems of dynamic relationship management, computational outsourcing and remote database access using secure and managed services coupled with service level agreements and flexible client and service toolkits. This presentation will discuss the ways in which GRIA was used and highlight the key features relevant to business today.

Presenter: PHILLIPS, Stephen (IT Innovation)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 197

Type: **not specified**

Business Pilot: eHealth - Enhanced IMRT planning using Grid services on-demand with SLAS

Wednesday, 23 September 2009 18:00 (20 minutes)

Abstract

Cancer treatment planning with radiotherapy requires a detailed calculation before it is delivered to the patient. The doses which the patient receives must be enough to destroy the cancer cells but below the thresholds of undesired effects, protecting healthy tissues. BEinEIMRT is a business experiment in the Health sector which has checked a set of remote tools to help in the calculation, and in the virtual verification of the radiotherapy treatment plans. These tools use high accurate methods but need a big amount of computing capacity which is demanded from Grid infrastructures. They can be provided to the hospitals following a Software-as-a-Service model, hiding the complexity of the backend hardware to the users. Thanks to the use of this technology, complemented with a strong security and the negotiation of resources using Service Level Agreements, their introduction into the market is easier because decrease the initial investments. In the presentation, the software will be presented as well as the main business aspects and results of the BEinGRID business experiment, including the benefits for using Grid technology for their provision.

Presenter: GÓMEZ, Anrdés (CESGA)

Session Classification: EGEE'09 Business Workshop

Contribution ID: **198**Type: **not specified**

Clouds and Grid: business and market findings

Wednesday, 23 September 2009 14:50 (20 minutes)

Abstract

During the BEinGRID project a group of academic researchers and business consultants have investigated the business and market contexts for Grid technology and the resulting solutions available for industry. A special attention is made e.g. for the analysis of business models and value chains as well as and the potential benefits the Grid based solutions can bring to the end users. The key findings of the business analysis are gathered to a book (to be published on November 2009), a key supporting output of the project.

This talk provides an overview of the book and gives examples of the main findings.

Presenter: LUOKKANEN, Karita (Atos Origin)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 199

Type: **not specified**

Understanding and improving the tape performance at PIC Tier-1 after STEP'09: the CMS case

Tuesday, 22 September 2009 15:00 (30 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

PIC/CIEMAT

Abstract

A presentation on tape access during STEP'09 at PIC and some further tests we have done with LT04 + proper data organization to make the tape recall more efficient (for CMS) + brand new implemented buffer for tape writing, which also helps the writing rates.

Presenter: FLIX, José

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: **200**

Type: **not specified**

Supporting Analysis Users

Tuesday, 22 September 2009 17:00 (30 minutes)

Presenter: Dr LAMANNA, Massimo (CERN)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: **201**

Type: **not specified**

Improvements in data access efficiency for jobs

Tuesday, 22 September 2009 17:30 (30 minutes)

Presenter: Dr SCIABÀ, Andrea (CERN)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: 202

Type: **not specified**

Job management: can we deliver the workload?

Tuesday, 22 September 2009 18:00 (30 minutes)

Presenter: LITMAATH, Maarten (CERN)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: 203

Type: **not specified**

GridPP Tier-2 results from extended ATLAS hammercloud testing

Tuesday, 22 September 2009 15:30 (20 minutes)

Presenter: COLES, Jeremy (Dept. of Physics, Cavendish Lab.-University of Cambridge-Unknown)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: **204**

Type: **not specified**

Outstanding Concerns and Actions

Tuesday, 22 September 2009 18:30 (30 minutes)

Presenter: Dr SHIERS, Jamie (CERN)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: 205

Type: **not specified**

Update on Global Experiment Operations

Tuesday, 22 September 2009 16:00 (30 minutes)

Presenters: DI GIROLAMO, Alessandro (CERN); MAGINI, Nicolo (CERN IT-GS-EIS & INFN-C-NAF)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: 206

Type: **not specified**

Maat-g - Servicing healthcare and beyond with Grid technologies

Wednesday, 23 September 2009 17:40 (20 minutes)

Presenter: LEGRE, Yannick (Maat-g)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 207

Type: **not specified**

Earth Science - requirements and experiences with use of MPI in EGEE

Tuesday, 22 September 2009 11:00 (20 minutes)

Abstract

IPGP, Institut de Physique du Globe de Paris, is one of the main research and educational institution in the domain of Geosciences in France and is in charge of several national observatories and of the volcanic hazard monitoring of the French volcanos in the Antillas and the Reunion Island.

Research and monitoring activities of IPGP involve the development of new data analysis and simulation methods. Some of its most important applications are parallelized with MPI and Fortran 90, and run on local resources or national computing centers.

IPGP has been testing MPI on Grid in the last years, first on DataGrid and then on EGEE to evaluate the potential of production GRID technologies as complementary resources.

After an introduction to Message Passing, this presentation will speak about the problems encountered working with MPI on EGEE and will then present the functionalities required to execute other applications.

Since the beginning of MPI on the Grid, important improvements have been achieved thanks to the work of the TCG WG on MPI that publishes guidelines for sites and users. When these recommendations are followed, users can work with MPI without having to know about details of the local installations. Unfortunately, too few sites are implementing MPI as well as these recommendations. Moreover the supplied MPI-START package is not actually very user friendly to configure.

Two major IPGP applications, SPECFEM3D and SEMUM3D, have been ported on EGEE. For the latter, in July 2009, 26 CEs have satisfied the requirements (ESR, MPICH, shared homes) but it ran only on 7 of them, sometimes after several attempts. Thankfully, it always worked on the CEs of the Trinity College Dublin (IE), also in EELA, and all IN2P3 (FR).

Furthermore, other functionalities have to be implemented and documented in order to port more MPI applications on EGEE: possibility to specify memory per process (to avoid lack of memory problem), maximum processes per node (to avoid network saturation) for example, availability of high performance networks (Myrinet, Infiniband). These topics are under consideration within the MPI WG but not yet implemented.

EGEE can't actually be used today as a production tool for MPI applications because very few sites satisfy the basic requirements and very long restitution time has to be expected even when requiring few cores.

Primary authors: MOGUILNY, Genevieve; VILOTTE, Jean-Pierre (Insitut de Physique du Globe de Paris,CNRS)

Presenters: MOGUILNY, Genevieve; VILOTTE, Jean-Pierre (Insitut de Physique du Globe de Paris,CNRS)

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 208

Type: **Session**

Computational Chemistry - requirements and experiences with use of MPI in EGEE

Tuesday, 22 September 2009 11:20 (20 minutes)

Abstract

The increasing availability of computer power on Grid platforms is a strong incentive to implement complex suites of codes on distributed systems.

As an active Computational Chemistry Community, this has urged us to implement on the EGEE Grid environment some suites of programs devoted to the calculation of the properties of molecular systems and able to explore the parallel performance of the mentioned infrastructure.

To this end, to evaluate the performance of the used platform the parallel version of the DL_POLY suite of codes, based on the Replicated Data parallelization strategy, was submitted in all the EGEE-Grid computer clusters supporting MPI-START and MPICH requirements and the corresponding results have been analyzed.

Primary author: Dr COSTANTINI, Alessandro (University of Perugia)

Presenter: Dr COSTANTINI, Alessandro (University of Perugia)

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 209

Type: **Session**

Astronomy and Astrophysics - requirements and experiences with use of MPI in EGEE

Tuesday, 22 September 2009 11:40 (20 minutes)

Abstract

We report about our experience regarding the porting of High Performance Computing (HPC) applications MPI based to the GRID. In particular, we ported FLASH, a multi-dimensional, adaptive-mesh, parallel code capable of handling general flow problems in astrophysical environments. The HPC simulations performed using FLASH require a substantial amount of computational resources and intense and sustained communication activity among the processes.

We describe here the features added to the Grid Infrastructure of the COMETA Consortium in order to fulfill satisfactorily the requests of HPC applications: the adoption of a fast interconnection network with low communication latency; the gLite middleware extended to support MPI/MPI2 jobs; the newly developed license server and the specific scheduling policy adopted; the use of watchdog utility for job monitoring during execution; the long term proxy to allow the running of jobs whose execution is particularly time-consuming and requiring hundreds of processors.

Primary author: ORLANDO, Salvatore (INAF - Osservatorio Astronomico di Palermo)

Presenter: ORLANDO, Salvatore (INAF - Osservatorio Astronomico di Palermo)

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 210

Type: **not specified**

MPI on the grid: operational issues

Tuesday, 22 September 2009 12:00 (15 minutes)

Abstract

In this talk I will describe the operational issues encountered when adding MPI support to an EGEE site. The issues are in the area of the WMS, packages, scheduling, ssh, and setting up a shared file system. Some of the issues are currently being solved.

Primary author: DIJKSTRA, Fokke

Presenter: DIJKSTRA, Fokke

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 211

Type: **not specified**

MPI Working Group Proceedings

Tuesday, 22 September 2009 12:25 (15 minutes)

Abstract

The current MPI Working Group has been setup with two goals:

1. Find out why so few sites are supporting MPI.
2. Recommend upon increasing the versatility of MPI (or multi-core jobs in general) on the EGEE infrastructure.

Along the way, two other issues have become part of the MPI WG focus:

- a. The state of the current MPI install mechanism on gLite.
- b. The future support of MPI within EGEE.

These goals and issues will become part of a recommendation document of which the final version will be prepared shortly.

Primary author: Mr ENGELBERTS, Jeroen (SARA)

Presenter: Mr ENGELBERTS, Jeroen (SARA)

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 212

Type: **Session**

Panel discussion: MPI, the way forward

Tuesday, 22 September 2009 12:45 (15 minutes)

Primary author: VAN DOK, Dennis

Presenter: VAN DOK, Dennis

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 213

Type: **not specified**

SSC Workshop Introduction

Friday, 25 September 2009 08:30 (20 minutes)

Primary author: LOOMIS, Cal (CNRS/LAL)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: **214**

Type: **not specified**

CUE Presentation

Friday, 25 September 2009 09:10 (20 minutes)

Primary author: BARBERA, Roberto (UNIV. CATANIA AND INFN)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: 215

Type: **not specified**

Application Porting Support Project Presentation

Friday, 25 September 2009 09:30 (20 minutes)

Primary author: SIPOS, Gergely (Mr.)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: **216**

Type: **not specified**

EGI Core Presentation

Friday, 25 September 2009 08:50 (20 minutes)

Primary author: PERINI, Laura (Dipartimento di Fisica)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: 217

Type: **not specified**

SAFE (AA/ES/F) Project Presentation

Friday, 25 September 2009 10:10 (20 minutes)

Primary author: Dr VUERLI, Claudio (INAF-OA Trieste)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: **218**

Type: **not specified**

ROSCOE Presentation

Friday, 25 September 2009 10:30 (20 minutes)

Primary author: LOOMIS, Cal (CNRS/LAL)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: **219**

Type: **not specified**

Discussion

Friday, 25 September 2009 11:00 (2 hours)

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: 220

Type: **not specified**

Introduction

Monday, 21 September 2009 15:30 (5 minutes)

Abstract

Overview of the purpose of this session and introduce the speakers

Session Classification: EC and NSF Work-Programmes and Opportunities for closer Collaboration

Contribution ID: 221

Type: **not specified**

European Commission work programme

Monday, 21 September 2009 15:35 (20 minutes)

Presenter: BAXEVANIDIS, Kyriakos (European Commission)

Session Classification: EC and NSF Work-Programmes and Opportunities for closer Collaboration

Contribution ID: 222

Type: **not specified**

National Science Foundation work programme

Monday, 21 September 2009 15:55 (20 minutes)

Presenter: Dr MUÑOZ, José (NSF)

Session Classification: EC and NSF Work-Programmes and Opportunities for closer Collaboration

Contribution ID: 223

Type: **not specified**

Discussion and suggestions for how trans-Atlantic research communities can collaborate more effectively in the future

Monday, 21 September 2009 16:15 (15 minutes)

Session Classification: EC and NSF Work-Programmes and Opportunities for closer Collaboration

Contribution ID: 224

Type: **not specified**

Introduction

Monday, 21 September 2009 14:30 (5 minutes)

Abstract

Round-table introduction of participants and presentation of the agenda

Session Classification: European e-Infrastructure Forum (Closed)

Contribution ID: 225

Type: **not specified**

How to make the existence of EEF known and publicise it's work?

Monday, 21 September 2009 14:35 (15 minutes)

Primary author: Dr LEDERER, Hermann (Max Planck)

Session Classification: European e-Infrastructure Forum (Closed)

Contribution ID: 226

Type: **not specified**

What could be EEF's input to the Concertation Meeting scheduled for 12-13-14 October 2009, Bruxelles?

Monday, 21 September 2009 14:50 (15 minutes)

Session Classification: European e-Infrastructure Forum (Closed)

Contribution ID: 227

Type: **not specified**

What could be EEF's input to the EC/NSF session that follows this meeting?

Monday, 21 September 2009 15:05 (10 minutes)

Session Classification: European e-Infrastructure Forum (Closed)

Contribution ID: 228

Type: **not specified**

EEF membership - request of NDGF and SEEGRID to become members

Monday, 21 September 2009 15:15 (10 minutes)

Session Classification: European e-Infrastructure Forum (Closed)

Contribution ID: 229

Type: **not specified**

Future EEF meetings and common events

Monday, 21 September 2009 15:25 (5 minutes)

Session Classification: European e-Infrastructure Forum (Closed)

Contribution ID: **230**

Type: **not specified**

Introduction

Tuesday, 22 September 2009 17:00 (10 minutes)

Primary author: Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Presenter: Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Session Classification: Operations Support in EGEE and EGI

Contribution ID: **231**

Type: **not specified**

Introduction

Wednesday, 23 September 2009 11:00 (10 minutes)

Primary author: ANDREEVA, Julia (CERN)

Presenter: ANDREEVA, Julia (CERN)

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: 232

Type: **not specified**

Experiment Dashboard for monitoring of the LHC data management

Wednesday, 23 September 2009 11:10 (20 minutes)

Primary author: BRITO DA ROCHA, Ricardo (CERN)

Presenter: BRITO DA ROCHA, Ricardo (CERN)

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: 233

Type: **not specified**

User experience with monitoring of the distributed production (ATLAS)

Wednesday, 23 September 2009 11:30 (15 minutes)

Primary author: Dr ESPINAL, Xavier (PIC/IFAE)

Presenter: Dr ESPINAL, Xavier (PIC/IFAE)

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: 234

Type: **not specified**

Monitoring applications for end-user distributed analysis.

Wednesday, 23 September 2009 11:45 (15 minutes)

Primary author: Ms MAIER, Gerhild (Universitaet Linz)

Presenter: Ms MAIER, Gerhild (Universitaet Linz)

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: 235

Type: **not specified**

VO-specific site availability based on the results of SAM tests

Wednesday, 23 September 2009 12:00 (15 minutes)

Primary author: SAIZ, Pablo (CERN)

Presenter: SAIZ, Pablo (CERN)

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: 236

Type: **not specified**

Using Site Status Board in the CMS offline computing

Wednesday, 23 September 2009 12:15 (15 minutes)

Primary author: SCIABA, andrea

Presenter: SCIABA, andrea

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: 237

Type: **not specified**

Siteview for monitoring of the LHC computing activities at the sites

Wednesday, 23 September 2009 12:30 (15 minutes)

Primary author: Dr LANCIOTTI, Elisa (CERN)

Presenter: Dr LANCIOTTI, Elisa (CERN)

Session Classification: Monitoring of the activities of the user communities on the EGEE infrastructure

Contribution ID: **238**

Type: **not specified**

Introduction

Monday, 21 September 2009 17:00 (10 minutes)

Presenter: Mr JONES, Bob (CERN)

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: **239**

Type: **not specified**

CLARIN

Contribution ID: **240**

Type: **not specified**

CLARIN

Monday, 21 September 2009 17:10 (10 minutes)

Presenter: WITTENBURG, Peter

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: 241

Type: **not specified**

DARIAH and CESSDA

Monday, 21 September 2009 17:20 (20 minutes)

Presenter: KRAMER, Rutger

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: 242

Type: **not specified**

EISCAT3D

Monday, 21 September 2009 17:40 (10 minutes)

Presenter: ROININEN, Lassi

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: **243**

Type: **not specified**

EPOS

Monday, 21 September 2009 17:50 (10 minutes)

Presenter: COCCO, Massimo

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: 244

Type: **not specified**

LIFEWATCH

Monday, 21 September 2009 18:00 (10 minutes)

Presenter: POIGNÉ, Axel

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: 245

Type: **not specified**

HiPER

Contribution ID: 246

Type: **not specified**

ELIXIR

Monday, 21 September 2009 18:10 (10 minutes)

Presenter: LYALL, Andrew

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: 247

Type: **not specified**

European XFEL

Monday, 21 September 2009 18:20 (10 minutes)

Presenter: WRONA, Krzysztof

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: **248**

Type: **not specified**

CTA

Monday, 21 September 2009 18:30 (10 minutes)

Presenter: GIOVANNI, Lamanna

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: **249**

Type: **not specified**

FAIR

Monday, 21 September 2009 18:40 (10 minutes)

Presenter: MALZACHER, Peter

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: **250**

Type: **not specified**

SKA

Monday, 21 September 2009 18:50 (10 minutes)

Presenter: HALL, Duncan

Session Classification: ESFRI & e-Infrastructure Collaborations

Contribution ID: **251**

Type: **not specified**

EGEE/EGI

Tuesday, 22 September 2009 11:40 (20 minutes)

Presenter: Dr JONES, Bob (CERN)

Session Classification: ESFRI & e-Infrastructure Collaborations (2)

Contribution ID: 252

Type: **not specified**

DEISA/PRACE

Tuesday, 22 September 2009 11:20 (20 minutes)

Presenters: Dr LEDERER, Hermann (Max Planck); AERTS, Patrick

Session Classification: ESFRI & e-Infrastructure Collaborations (2)

Contribution ID: 253

Type: **not specified**

GEANT

Tuesday, 22 September 2009 11:00 (20 minutes)

Presenter: HUGHES-JONES, Richard

Session Classification: ESFRI & e-Infrastructure Collaborations (2)

Contribution ID: 254

Type: **not specified**

Discussion

Tuesday, 22 September 2009 12:00 (30 minutes)

Session Classification: ESFRI & e-Infrastructure Collaborations (2)

Contribution ID: 255

Type: **not specified**

Conclusions and next steps

Tuesday, 22 September 2009 12:30 (30 minutes)

Session Classification: ESFRI & e-Infrastructure Collaborations (2)

Contribution ID: 256

Type: **not specified**

Astronomical GRID applications at the European Space Astronomy Centre

Thursday, 24 September 2009 11:00 (15 minutes)

Primary author: ARVISET, Christophe (ESA-ESAC)

Presenter: ARVISET, Christophe (ESA-ESAC)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 257

Type: **not specified**

Integration of Astro-WISE with Grid storage

Thursday, 24 September 2009 11:15 (15 minutes)

Primary author: DIJKSTRA, Fokke (Kaptein Astronomical Institute - University of Groningen)

Presenter: DIJKSTRA, Fokke (Kaptein Astronomical Institute - University of Groningen)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 258

Type: **not specified**

Constraints on primordial non-Gaussianity using Planck simulated data

Thursday, 24 September 2009 11:30 (15 minutes)

Primary author: LOPEZ CANIEGO, Marcos (IFCA-CSIC)

Presenter: LOPEZ CANIEGO, Marcos (IFCA-CSIC)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 259

Type: **not specified**

Experiences from the migration of the MAGIC Datacenter to a Grid infrastructure

Thursday, 24 September 2009 11:45 (15 minutes)

Primary author: FIRPO CURCOLL, Roger (Port d'Informació Científica)

Presenter: FIRPO CURCOLL, Roger (Port d'Informació Científica)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 260

Type: **not specified**

GRID infrastructure for astrophysical applications in Lithuania

Thursday, 24 September 2009 12:00 (15 minutes)

Primary author: Prof. TAUTVAISIENE, Grazina (ITPA VU)

Presenter: Prof. TAUTVAISIENE, Grazina (ITPA VU)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 261

Type: **not specified**

Former and future applications from the Astronomical Institute of the Slovak Academy of Sciences

Thursday, 24 September 2009 12:15 (15 minutes)

Primary author: Prof. NESLUŠAN, Luboš (Astronomical Institute - Slovak Academy of Sciences)

Presenter: Prof. NESLUŠAN, Luboš (Astronomical Institute - Slovak Academy of Sciences)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 262

Type: **not specified**

SCOPE and Astrophysical Applications

Thursday, 24 September 2009 12:30 (15 minutes)

Primary author: Dr BRESCIA, Massimo (INAF – Astronomical Observatory of Capodimonte, Napoli, Italy)

Presenter: Dr BRESCIA, Massimo (INAF – Astronomical Observatory of Capodimonte, Napoli, Italy)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 264

Type: **not specified**

Introduction + database components of regional monitoring

Monday, 21 September 2009 14:30 (30 minutes)

Abstract

Give an introduction to the availability monitoring components that will be deployed at the regional level.

Give details on the database components and their interactions (MDDDB, ATP, Metric Store)

Presenter: LAPKA, Wojciech (Unknown)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: 265

Type: **not specified**

Regional Nagios

Monday, 21 September 2009 15:00 (20 minutes)

Presenter: Mr IMAMAGIC, Emir (SRCE / EGEE-SA1)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: 266

Type: **not specified**

Comparison of SAM testing coverage with Nagios testing

Monday, 21 September 2009 15:20 (10 minutes)

Presenter: SKABURSKAS, Konstantin (CERN)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: 267

Type: **not specified**

MyEGEE Portal + Demo

Monday, 21 September 2009 15:30 (20 minutes)

Presenter: Ms NOVAK, Judit (CERN)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: **268**

Type: **not specified**

Regional Dashboard

Monday, 21 September 2009 15:50 (30 minutes)

Presenter: L'ORPHELIN, Cyril (CNRS/IN2P3)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: **269**

Type: **not specified**

GOCDB 4

Monday, 21 September 2009 17:00 (30 minutes)

Presenter: MATHIEU, Gilles (RAL-STFC, Didcot, UK)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: 270

Type: **not specified**

Gstat 2.0

Monday, 21 September 2009 17:30 (30 minutes)

Presenter: HUANG, Hui-Tzu (Academia Sinica-Unknown-Unknown)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: 271

Type: **not specified**

APEL based on messaging

Monday, 21 September 2009 18:00 (30 minutes)

Presenter: Mrs DEL CANO NOVALES, Cristina (Science and Technology Facilities Council, United Kingdom)

Session Classification: An Introduction to Regional Operational Tools

Contribution ID: 272

Type: **not specified**

Tutorial on installing, configuring and using Nagios at an EGEE grid site.

Presenters: Mr IMAMAGIC, Emir (SRCE / EGEE-SA1); TRAYLEN, Steve (CERN)

Contribution ID: 273

Type: **not specified**

One year of the Grid Observatory

Monday, 21 September 2009 14:30 (25 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

LRI-CNRS

Abstract

This talk will present the achievements of the Grid Observatory after one year of activity, along its two main tasks: data collection and publication, and analysis. The practical issues as well as the strategic challenges for the next year will be highlighted.

Primary author: Prof. GERMAIN-RENAUD, Cecile (LRI)

Presenter: Prof. GERMAIN-RENAUD, Cecile (LRI)

Session Classification: Grid Observatory

Contribution ID: 274

Type: **not specified**

Grid Management Support by means of Collaborative Learning Agents

Monday, 21 September 2009 14:55 (25 minutes)

Presenter: Mr MULDER, Wico (Logica)

Session Classification: Grid Observatory

Contribution ID: 275

Type: **not specified**

Characterization of a Computational Grid as a Complex System

Monday, 21 September 2009 15:20 (25 minutes)

Presenter: Prof. SAITTA, Lorenza (Univerita Piemonte orientale)

Session Classification: Grid Observatory

Contribution ID: 276

Type: **not specified**

Analysis of workload series from Grid Observatory measurements

Monday, 21 September 2009 15:45 (20 minutes)

Presenter: Dr ELTETO, Tamas (U. Paris-Sud)

Session Classification: Grid Observatory

Contribution ID: 277

Type: **not specified**

Improving quality of service on EGEE with application-level site pre-selection

Monday, 21 September 2009 16:05 (20 minutes)

Primary author: Mr TAN, Wen-Jun (CREATIS)

Co-authors: Mrs CAMARASU-POP, Sorina (CNRS ; CREATIS-LRMN); Mr GLATARD, Tristan (CNRS, CREATIS-LRMN)

Presenter: Mr GLATARD, Tristan (CNRS, CREATIS-LRMN)

Session Classification: Grid Observatory

Contribution ID: 278

Type: **not specified**

Conclusion

Monday, 21 September 2009 16:25 (5 minutes)

Session Classification: Grid Observatory

Contribution ID: 279

Type: **not specified**

Glue 2.0

Thursday, 24 September 2009 11:00 (25 minutes)

Abstract

The roll out strategy for GLUE 2.0 and current status.

Presenter: BURKE, Stephen (Rutherford Appleton Laboratory-STFC - Science & Technology Facil)

Session Classification: The Future of Grid Information Systems

Contribution ID: **280**

Type: **not specified**

Using GStat for Information Validation

Thursday, 24 September 2009 11:25 (25 minutes)

Presenter: HUANG, Hui-Tzu (Academia Sinica-Unknown-Unknown)

Session Classification: The Future of Grid Information Systems

Contribution ID: **281**

Type: **not specified**

Experiences from the other end of the network.

Thursday, 24 September 2009 11:50 (25 minutes)

Presenter: DYCE, Timothy John (University of Melbourne-Unknown-Unknown)

Session Classification: The Future of Grid Information Systems

Contribution ID: 282

Type: **not specified**

Information systems from an operations perspective

Thursday, 24 September 2009 12:15 (25 minutes)

Presenter: CASEY, James (CERN)

Session Classification: The Future of Grid Information Systems

Contribution ID: 283

Type: **not specified**

Towards an Information System Product Team

Thursday, 24 September 2009 12:40 (20 minutes)

Presenter: HORAT, David (CERN)

Session Classification: The Future of Grid Information Systems

Contribution ID: 284

Type: **not specified**

The EGI ecosystem and the GO SCC architecture

Monday, 21 September 2009 17:30 (20 minutes)

Presenter: Prof. GERMAIN-RENAUD, Cecile (LRI)

Session Classification: Grid Observatory

Contribution ID: 285

Type: **not specified**

Discussion

Monday, 21 September 2009 17:50 (1h 10m)

Session Classification: Grid Observatory

Contribution ID: 286

Type: **not specified**

Grand challenges in computational Biology. In and out of the GRID

Wednesday, 23 September 2009 17:00 (40 minutes)

Abstract

The nature of the grand challenges in computational biology will be reviewed making special emphasis on the problems arising from the new experimental tools in genomics. The needs and the expected bottlenecks in the development of massive project in bioinformatics and computational biology will be discussed giving ideas on the future computer scenario required for biological research.

Primary author: Dr OROZCO, Modesto (Institute for Research in Biomedicine (IRB Barcelona))

Presenter: Dr OROZCO, Modesto (Institute for Research in Biomedicine (IRB Barcelona))

Session Classification: Bioinformatics and Grid - On the way to ordinary usage

Contribution ID: 287

Type: **not specified**

Bioinformatics GRID and HPC challenges in Biomedicine and Biosciences

Wednesday, 23 September 2009 17:40 (20 minutes)

Primary author: Dr MILANESI, Luciano (National Research Council - Institute of Biomedical Technologies)

Presenter: Dr MILANESI, Luciano (National Research Council - Institute of Biomedical Technologies)

Session Classification: Bioinformatics and Grid - On the way to ordinary usage

Contribution ID: 288

Type: **not specified**

e-NMR: Structural Biology on the GRID

Wednesday, 23 September 2009 18:00 (20 minutes)

Abstract

The e-NMR infrastructure project set out two years ago as an international effort to streamline and automate structure determination from NMR data using GRID resources. Now it has already grown to be the second largest virtual organization within the Life Sciences with 111 registered users, and counting. Currently, the project hosts eight web-portals, with several others under development. Part of the success of the eNMR project lies in a clear strategy for the development of GRID-enabled applications, and the presentation of these to the end users as protocolized services, with easy-to-use web interfaces. This strategy has brought the project in good shape to meet the challenges that lie ahead: Connecting the separate components to complete workflows for automated analysis from signals to structures and dynamics, and proving its value in CASD-NMR, the critical assessment of automated structure determination by NMR.

Primary authors: Dr BONVIN, Alexandre M.J.J. (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR)); Dr WASSENAAR, Tsjerk (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR))

Presenter: Dr WASSENAAR, Tsjerk (Bijvoet Center for Biomolecular Research, Universiteit Utrecht (BCBR))

Session Classification: Bioinformatics and Grid - On the way to ordinary usage

Contribution ID: 289

Type: **not specified**

Bioinformatics Applications in the Spanish Network for e-Science

Wednesday, 23 September 2009 18:20 (20 minutes)

Primary authors: Dr BLANQUER, Ignacio (UPV - ITACA - GRyCAP); Prof. HERNÁNDEZ, Vicente (UPV - ITACA - GRyCAP)

Presenter: Dr BLANQUER, Ignacio (UPV - ITACA - GRyCAP)

Session Classification: Bioinformatics and Grid - On the way to ordinary usage

Contribution ID: **290**

Type: **not specified**

Discussion

Wednesday, 23 September 2009 18:40 (20 minutes)

Session Classification: Bioinformatics and Grid - On the way to ordinary usage

Contribution ID: 291

Type: **not specified**

General Discussion on A&A Applications in EGEE

Thursday, 24 September 2009 12:45 (15 minutes)

Session Classification: Astronomy and Astrophysics Applications in Grids

Contribution ID: 292

Type: **not specified**

Security Policy: from EGEE to EGI

Monday, 21 September 2009 14:30 (40 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

STFC, The Rutherford Appleton Laboratory

Primary author: Dr KELSEY, David (RAL)

Presenter: Dr KELSEY, David (RAL)

Session Classification: The Grid Security Vulnerability Group (GSVG) and the Joint Security Policy Group (JSPG).

Contribution ID: 293

Type: **not specified**

Vulnerability handling, Risk Management, and plans for transition to EGI

Monday, 21 September 2009 15:10 (40 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

STFC, The Rutherford Appleton Laboratory

Primary author: CORNWALL, Linda Ann (Particle Physics-Rutherford Appleton Laboratory-STFC - Science &)

Presenter: CORNWALL, Linda Ann (Particle Physics-Rutherford Appleton Laboratory-STFC - Science &)

Session Classification: The Grid Security Vulnerability Group (GSVG) and the Joint Security Policy Group (JSPG).

Contribution ID: 294

Type: **not specified**

Vulnerability Assessment for Middleware

Monday, 21 September 2009 15:50 (40 minutes)

Primary author: HEYMANN, Elisa (Universitat Autònoma de Barcelona)

Presenter: HEYMANN, Elisa (Universitat Autònoma de Barcelona)

Session Classification: The Grid Security Vulnerability Group (GSVG) and the Joint Security Policy Group (JSPG).

Contribution ID: 295

Type: **not specified**

Monitoring the reliability of MPI support on the EGEE Infrastructure

Tuesday, 22 September 2009 12:15 (10 minutes)

Abstract

During the last year our helpdesk had to deal with a large number of trouble tickets regarding problems with the several MPI implementations on the Grid infrastructure. Due to these requests and in order to have a constant view of the MPI support on the infrastructure, we have developed and deployed a set of MPI probes that test the installation of MPI flavours on Grid Sites. Using these probes we test the mpich-1 implementation of MPI-1 along with the mpich-2 and openMPI implementations of the MPI-2 standard. These probes are integrated with the NAGIOS monitoring framework. Currently we have enabled the nagios MPI monitoring on the HellasGrid Infrastructure and we are on the course of introducing our probes to the wider EGEE monitoring infrastructure in collaboration with the OAT. In the EGEE09 conference we will present this tool alongside with statistics regarding the robustness of the MPI support on the infrastructure.

Primary author: Mr KOROSOGLOU, Paschalis (AUTH)

Presenter: Mr KOROSOGLOU, Paschalis (AUTH)

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 296

Type: **not specified**

Update on MPI_utils for gLite

Tuesday, 22 September 2009 12:40 (5 minutes)

Primary author: KEEBLE, Oliver (CERN)

Presenter: KEEBLE, Oliver (CERN)

Session Classification: Support for MPI Applications within EGEE

Contribution ID: 297

Type: **not specified**

Regular activity

Wednesday, 23 September 2009 14:30 (15 minutes)

Abstract

Welcome, agenda presentation, update on last release and sorting out outstanding requests on GOCDB3

Session Classification: GOCDB Advisory Group (closed)

Contribution ID: 298

Type: **not specified**

GOCDB failover report

Wednesday, 23 September 2009 14:45 (15 minutes)

Abstract

Recent failures, status, solutions, future

Session Classification: GOCDB Advisory Group (closed)

Contribution ID: 299

Type: **not specified**

report on GOCDB-PI and direct DB access

Wednesday, 23 September 2009 15:00 (10 minutes)

Abstract

Report on closing direct DB access to GOCDB - Status of client tools migration to the GOCDB-PI

Session Classification: GOCDB Advisory Group (closed)

Contribution ID: **300**

Type: **not specified**

Data privacy and security in GOCDB4

Wednesday, 23 September 2009 15:10 (10 minutes)

Abstract

Discuss how private or public we want GOCDB data to appear in GOCDB4, and what are the different levels of authorisation

Session Classification: GOCDB Advisory Group (closed)

Contribution ID: **301**

Type: **not specified**

GOCDB3 to GOCDB4 transition plan

Wednesday, 23 September 2009 15:20 (35 minutes)

Abstract

Discuss proposed transition plan between the 2 systems. The outcome should be a validated timeline, with all technical implications clearly defined

Session Classification: GOCDB Advisory Group (closed)

Contribution ID: **302**

Type: **not specified**

Installation of a regional GOCDB: discussion and feedback

Wednesday, 23 September 2009 15:55 (35 minutes)

Abstract

This is an open discussion between GOCDB admins, members of the Advisory Group and representatives of regions that have tried - or plan to try - deploying a regional GOCDB.

Session Classification: GOCDB Advisory Group (closed)

Contribution ID: 303

Type: **not specified**

U.S. National Science Foundation Office of CyberInfrastructure: Building Computational Science, Policy and Future Plans

Monday, 21 September 2009 11:40 (40 minutes)

Abstract

Modern cyberinfrastructure is transforming research and education not only in science and engineering but also in all disciplines and throughout society. The Office of CyberInfrastructure (OCI), part of the U.S. National Science Foundation (NSF), is strengthening the U.S. national cyberinfrastructure (CI) through investments in the TeraGrid and large scale high performance computing, while forging important new activities in areas of expanded computing services, software, data, networking, virtual organizations, and education. As an overarching theme, OCI promotes the development of collaborative computational science—defined broadly to encompass research and development of comprehensive CI, as well as the application of CI to solve complex problems in science and engineering—as one of OCI's primary missions. OCI provides stewardship for computational science at NSF, in strong collaborations with other offices, directorates, and agencies.

This session will discuss the current and future efforts within OCI addressing the needs of computational scientists, the policies that guide this work, and our future plans for growing both U.S. and international collaboration in this space. Of special importance are the role of sustainability – both in terms of longer-term funding streams and production quality results, and open sharing of data and software.

Primary author: SCHOPF, Jennifer (NSF)

Presenter: SCHOPF, Jennifer (NSF)

Session Classification: Technical Plenary: Policy Issues in Distributed Computing Infrastructures

Contribution ID: 304

Type: **not specified**

Towards a sustainable grid infrastructure

Monday, 21 September 2009 11:00 (40 minutes)

Abstract

Kostas Glinos will present the recent policy developments following the release by the European Commission of the Communication "ICT Infrastructures for e-Science" earlier this year. He will then outline the main elements of the ongoing e-Infrastructures call for proposals which provides opportunities for projects in the area of e-Science grids. To close and looking at the future of the European grid landscape, Kostas will propose to the audience a series of points for reflection.

Primary author: GLINOS, Kostas (EC)

Presenter: GLINOS, Kostas (EC)

Session Classification: Technical Plenary: Policy Issues in Distributed Computing Infrastructures

Contribution ID: 305

Type: **not specified**

EGI - A European Distributed Computing Infrastructure

Monday, 21 September 2009 12:20 (40 minutes)

Abstract

The European Grid Initiative (EGI) represents a move to provide a sustainable distributed computing infrastructure to support European research activity. The EGI model, based around the federation of National Grid Initiatives (NGI) coordinated by a small central organisation EGI.eu, has been developed through extensive community consultation within a multi-year design study. The focus of this presentation will be the implementation of the EGI model (as described in the EGI Blueprint) that is being prepared for submission to the EC for funding. It will detail the envisaged structure of the EGI, the expected contributions of the NGIs, and the relationship that EGI will have with its user communities and its software providers. The relationship between EGI with other European projects and infrastructures will be described, and the interactions EGI expects to have with other projects and infrastructures around the world.

Primary author: NEWHOUSE, Steven

Presenter: NEWHOUSE, Steven

Session Classification: Technical Plenary: Policy Issues in Distributed Computing Infrastructures

Contribution ID: **306**

Type: **not specified**

Welcome from local organisers and Spanish Dignitaries

Monday, 21 September 2009 09:00 (20 minutes)

Session Classification: Welcome Plenary

Contribution ID: **307**

Type: **not specified**

EGEE – Current Status

Monday, 21 September 2009 09:20 (20 minutes)

Abstract

This presentation will give an overview of the status of the EGEE-III project and its contributions to the preparation for a sustainable European e-Infrastructure. Key points for the 2nd year of the project and objectives of the EGEE09 conference will also be covered.

Primary author: Dr JONES, Bob (CERN)

Presenter: Dr JONES, Bob (CERN)

Session Classification: Welcome Plenary

Contribution ID: 308

Type: **not specified**

Enabling User Communities - Experience from Porting Applications and Services in the Biomedical Area

Monday, 21 September 2009 09:40 (25 minutes)

Abstract

Biomedicine is a wide term that integrates many different disciplines related with health, life sciences and biochemistry. In a broad sense, it comprises the storage, management and processing of data related with the physiology of living beings. Therefore, this area ranges from the analysis of proteins up to epidemiology. This fact clearly reveals an enormous need for computing and storage resources. Consequently, biomedicine has been the most active non-high energy physics community in EGEE, despite of its complexity and heterogeneity, proven by the high number of members of the biomed VO and by the large usage of resources. Thus, this talk tries to outline the work from the whole community, and not only from Spain. Biomedical applications have influenced notably in the middleware and components developed around EGEE. The requirements on security from the biomedical applications for the development of the catalogue systems or the integration of key stores such as Hydra are clear examples. Another interesting example is the broad usage of AMGA in the biomedical field, which has been extended with many of these issues. With the use of the EGEE grid, many applications and frameworks have been developed for innovative medicine, bioinformatics and medical imaging. Several interesting results, especially in the area of

bioinformatics, have been published in high-level scientific journals. The use of EGEE have enabled large-scale studies of current biomedical databases, revealing interesting trends and incorrect annotations which have contributed to increase the quality of such databases. The talk will describe some of these developments, stressing the technical tackled and the scientific results obtained.

Primary author: Dr BLANQUER, Ignacio (UPV)

Presenter: Dr BLANQUER, Ignacio (UPV)

Session Classification: Welcome Plenary

Contribution ID: 309

Type: **not specified**

PIC, the Spanish LHC Tier-1: Ready for Data Taking

Monday, 21 September 2009 10:05 (25 minutes)

Abstract

When they start later this year, the LHC experiments will generate an unprecedented amount of data, accumulating over 15 Petabytes every year. The Worldwide LHC Computing Grid project was started in 2002 with the goal of deploying a distributed computing infrastructure to manage the LHC data. It combines the power of more than 140 computing centres in 33 countries. Eleven of these centres, the so called Tier-1s, are directly connected to CERN with dedicated network links and will be receiving a copy of the RAW data online. These centres will perform massive processing of the data and redistribute the output to other sites worldwide for further analysis. The Spanish Tier-1 for the LHC is located at PIC, near Barcelona. This talk will present the status of this service and its readiness for data taking.

Primary author: MERINO, Gonzalo (PIC)

Presenter: MERINO, Gonzalo (PIC)

Session Classification: Welcome Plenary

Contribution ID: 310

Type: **not specified**

The European Strategy Forum on Research Infrastructures

Tuesday, 22 September 2009 09:00 (30 minutes)

Abstract

While there will always be the solo researcher who is working on their own, more and more the interconnectivity between researchers around both large scale infrastructure and in an attempt to find “whole body” solutions will drive behavioural changes which are just starting to emerge. EGEE has been instrumental in creating some of these new communities mainly around single disciplines. More and more there will be the need to develop a methodology for integrating across disciplines and linking the outcomes to policy advice. As chair of the European Research Area Board I will summarise some of our thinking about what this means for European research within a global context. A key question is how we will need to train young researchers to enter this challenging but exciting vision.

Primary author: Prof. WOOD, John V

Presenter: Prof. WOOD, John V

Session Classification: Technical Plenary: Operational Grid Infrastructures after EGEE

Contribution ID: **311**

Type: **Session**

Gateway Introduction

Wednesday, 23 September 2009 11:00 (10 minutes)

Primary author: Dr PETITDIDIER, Monique (LATMOS/IPSL)

Presenter: Dr PETITDIDIER, Monique (LATMOS/IPSL)

Session Classification: Science Gateways

Contribution ID: **312**

Type: **Session**

Gateway Introduction

Contribution ID: 313

Type: **not specified**

Survey on existing Gateway - classification

Wednesday, 23 September 2009 11:10 (15 minutes)

Primary author: SCHWICHTENBERG, Horst (SCAI/FhG)

Presenter: SCHWICHTENBERG, Horst (SCAI/FhG)

Session Classification: Science Gateways

Contribution ID: 314

Type: **not specified**

Science Gateways for Discrete Event Simulation based on P-GRADE Portal

Wednesday, 23 September 2009 11:25 (15 minutes)

Primary author: SIPOS, Gergely (MTA SZTAKI)

Co-author: KACSUK, Peter

Presenter: SIPOS, Gergely (MTA SZTAKI)

Session Classification: Science Gateways

Contribution ID: 315

Type: **not specified**

Portal Group Feedback and Examples of Public Web Interfaces in Bioinformatics

Wednesday, 23 September 2009 11:40 (15 minutes)

Primary author: BLANCHET, Christophe (CNRS IBCP)

Presenter: BLANCHET, Christophe (CNRS IBCP)

Session Classification: Science Gateways

Contribution ID: **316**

Type: **not specified**

Virtual Observatory in Astronomy and Astrophysics

Wednesday, 23 September 2009 11:55 (15 minutes)

Primary author: ARVISET, Christophe (ESA-ESAC)

Presenter: ARVISET, Christophe (ESA-ESAC)

Session Classification: Science Gateways

Contribution ID: **317**

Type: **not specified**

TeraGrid - Second part

Wednesday, 23 September 2009 12:10 (20 minutes)

Primary author: WILKINS-DIEHR, Nancy

Presenter: WILKINS-DIEHR, Nancy

Session Classification: Science Gateways

Contribution ID: **318**

Type: **not specified**

Discussion

Wednesday, 23 September 2009 12:30 (30 minutes)

Session Classification: Science Gateways

Contribution ID: **319**

Type: **not specified**

State of the art and plans of the existing interfaces

Tuesday, 22 September 2009 17:10 (35 minutes)

Presenter: DRES, Helmut (Unknown)

Session Classification: Operations Support in EGEE and EGI

Contribution ID: 320

Type: **not specified**

A regional example: the IT ROC interface

Tuesday, 22 September 2009 17:45 (10 minutes)

Primary author: BRUNETTI, Riccardo (Unknown)

Presenter: BRUNETTI, Riccardo (Unknown)

Session Classification: Operations Support in EGEE and EGI

Contribution ID: **321**

Type: **not specified**

Round table

Tuesday, 22 September 2009 18:15 (45 minutes)

Abstract

This is the time to ask questions to help you plan your exotic interface to GGUS!

Session Classification: Operations Support in EGEE and EGI

Contribution ID: 322

Type: **not specified**

Grid Messaging vs. Web services: how to choose?

Primary author: DRES, Helmut (Unknown)

Presenter: DRES, Helmut (Unknown)

Contribution ID: 323

Type: **not specified**

Another regional example: the evolution of the Spanish regional support model

Tuesday, 22 September 2009 18:05 (10 minutes)

Presenter: Dr CAMPOS, Isabel (IFCA-CSIC)

Session Classification: Operations Support in EGEE and EGI

Contribution ID: 324

Type: **not specified**

Another regional example: the ROC North model

Tuesday, 22 September 2009 17:55 (10 minutes)

Presenter: TROMPERT, Ron (SARA)

Session Classification: Operations Support in EGEE and EGI

Contribution ID: 325

Type: **not specified**

Introduction

Wednesday, 23 September 2009 14:30 (10 minutes)

Primary author: Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Presenter: Dr ANTONI, Torsten (Karlsruhe Institute of Technology)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: 326

Type: **not specified**

User support by and for non-HEP VOs and SSCs in EGI

Wednesday, 23 September 2009 14:40 (30 minutes)

Primary authors: Mr FLOROS, Evangelos (GRNET); FLOROS, Vangelis (GRNET S.A. Greek Research & Technology Network-Unknown-Unknown)

Presenter: FLOROS, Vangelis (GRNET S.A. Greek Research & Technology Network-Unknown-Unknown)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: 327

Type: **not specified**

User support by and for the HEP VOs

Wednesday, 23 September 2009 15:10 (30 minutes)

Presenter: DI GIROLAMO, Alessandro

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: **328**

Type: **not specified**

Panel discussion

Wednesday, 23 September 2009 15:40 (50 minutes)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: **329**

Type: **not specified**

Middleware user support in EGI

Wednesday, 23 September 2009 17:00 (15 minutes)

Primary author: Mr KRENEK, Ales (MASARYK UNIVERSITY, BRNO, CZECH REPUBLIC)

Presenter: Mr KRENEK, Ales (MASARYK UNIVERSITY, BRNO, CZECH REPUBLIC)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: **330**

Type: **not specified**

Middleware user support in EMI

Wednesday, 23 September 2009 17:15 (15 minutes)

Primary author: Dr DI MEGLIO, Alberto (CERN)

Presenter: Dr DI MEGLIO, Alberto (CERN)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: **331**

Type: **not specified**

Panel discussion

Wednesday, 23 September 2009 18:15 (45 minutes)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: 332

Type: **not specified**

Current status of support for UNICORE

Wednesday, 23 September 2009 17:30 (15 minutes)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: 333

Type: **not specified**

GridwiseTech: An Invitation to Easy Sharing with AdHoc

Wednesday, 23 September 2009 12:15 (20 minutes)

Abstract

GridwiseTech, an EGEE Business Associate, specializes in large data and scalable systems. In this talk, the company president will give a tour over the recent industry engagements, as well as on how large data challenges play together (or don't) with paradigms such as Cloud.

Our recent initiative is AdHoc: an alternative to Virtual Organizations, which enables sharing in seconds. End users define their own trusted groups and share with them data, applications and resources within a mouse drag. No administrator is needed, and no IT skills are needed. AdHoc brings together the Web 2.0 user-friendliness and the complex capabilities of Grid: <http://gridwisetech.com/adhoc#adhocmo>

GridwiseTech invites the research institutions to participate in the project.

Presenter: PLASZCZAK, Pawel (GridwiseTech)

Session Classification: EGEE'09 Business Workshop

Contribution ID: 334

Type: **not specified**

Current status of support for ARC

Wednesday, 23 September 2009 17:45 (15 minutes)

Primary author: Dr GRØNAGER, Michael (NDGF)

Presenter: Dr GRØNAGER, Michael (NDGF)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: 335

Type: **not specified**

Current status of support for gLite

Wednesday, 23 September 2009 18:00 (15 minutes)

Presenter: Mr KRENEK, Ales (MASARYK UNIVERSITY, BRNO, CZECH REPUBLIC)

Session Classification: Ensuring reliable User Support beyond EGEE-III

Contribution ID: 336

Type: **not specified**

Security aspects of PGI

Wednesday, 23 September 2009 11:10 (30 minutes)

Primary author: Mr REIDEL, Morris

Presenter: Mr REIDEL, Morris

Session Classification: Future directions in Grid Security

Contribution ID: 337

Type: **not specified**

Quantum Grid Dynamics (QGD): a method for solving the molecular Schroedinger Equation in Cartesian coordinates via angular momentum projection operators

Tuesday, 22 September 2009 11:00 (25 minutes)

Abstract

A method for solving the Schroedinger equation of N-atom molecules in $3N-3$ Cartesian coordinates usually defined by Jacobi vectors is presented [1]. The separation and conservation of the total angular momentum is obtained not by transforming the Hamiltonian in internal curvilinear coordinates but instead, by keeping the Cartesian formulation of the Hamiltonian operator and projecting the initial wavefunction onto the proper irreducible representation angular momentum subspace. The increased number of degrees of freedom from $3N-6$ to $3N-3$, compared to previous methods for solving the Schroedinger equation, is compensated by the simplicity of the kinetic energy operator and its finite difference representations which result in sparse Hamiltonian matrices. A parallel code in fortran 95 has been developed and tested for model potentials of harmonic oscillators. Moreover, we compare data obtained for the three dimensional hydrogen molecule and the six dimensional water molecule with results from the literature. The availability of large clusters of computers with hundreds of CPUs and GBytes of memory, as well as the rapid development of distributed (Grid) computing, make the proposed method, which is unequivocally highly demanding in memory and computer time, attractive for studying Quantum Molecular Dynamics. Several gridification schemes are discussed [2].

References

- [1] Jaime Suarez, Stavros C. Farantos, Stamatis Stamatiadis, and Lucas Lathouwers, A method for solving the molecular Schroedinger Equation in Cartesian coordinates via angular momentum projection operators, *Comp. Phys. Comm.*, doi:10.1016/j.cpc.2009.06.004, 2009.
- [2] S. C. Farantos, S. Stamatiadis, L. Lathouwers, and R. Guantes, Grid Enabled Molecular Dynamics: classical and quantum algorithms, In G. Maroulis, Th. Simos, editor, *Lecture Series on Computer and Computational Sciences: Trends and Perspectives in Modern Computational Science*, volume~3, pages 35–50. VSP, 2005.

Primary author: Prof. FARANTOS, Stavros (Institute of Electronic Structure and Laser, Foundation for Research and Technology-Hellas and Department of Chemistry, University of Crete, Heraklion 71110, Crete, Greece)

Session Classification: Computational Chemistry – Cluster status and evolution

Contribution ID: 338

Type: **not specified**

Towards a Specialized Support Centre for chemistry and materials sciences

Tuesday, 22 September 2009 11:25 (25 minutes)

Abstract

Leading the efforts of a group of 10 European research Laboratories belonging to the Czech Republic, Finland, France, Greece, Italy, Poland, Spain, and Switzerland, UNIPGCHIM (a research group of the Department of Chemistry of the University of Perugia (I) extended to researchers of the Department of Physics and the Department of Mathematics & Informatics) has elaborated in collaboration with CYFRONET (the Academic Computer Centre of the AGH University of Science and Technology of Krakow (Pl)) a proposal for the call INFRA-2010-1.2.3 "Virtual Research Communities" to assemble a Specialized Support Centre (SSC) for Chemistry and Materials Sciences and Technologies.

The SSC is founded on the EGEE coordination activities of some Virtual organizations (like COMPCHEM, GAUSSIAN, VOCE), service activities of some of its potential members (CSC, CYFRONET, DEMOCRITOS, ENEA, NCBR, UNIPGCHIM) and research activities of FORTH, GDRQ, UZH and IRSAMC in addition to those of the previous institutions. In addition, more than hundred research laboratories have expressed their wish to exploit the support of the proposed SSC

The SSC will:

- Support its users in structuring and running their applications on the grid
- Adopt models and standards for molecular and material knowledge allowing inter- and intra- applications and platforms operability
- Implement on the grid libraries of codes and services for the users
- Design and develop tools for rewarding the efforts spent by the users to contribute to the activities of the SSC on behalf of the community

Session Classification: Computational Chemistry – Cluster status and evolution

Contribution ID: 339

Type: **not specified**

Grid calculation of reaction kinetic coefficients: a quantum mechanical approach

Abstract

Introduction

Our communication provides a detailed description of the gridification of a quantum method for the direct calculation of kinetic coefficients by means of flux correlation functions and the Multiconfigurational time-dependent Hartree (MCTDH) scheme for the wavefunction. The methodology has been implemented and made available to the COMPCHEM VO within EGEE. The performance and reliability of the method is illustrated by presenting the results of a computational campaign aimed at the calculation of the $N + N_2$ reaction rate coefficients using on the LAG3 potential energy surface.

Description

The direct calculation of chemical reactions thermal rates coefficients $k(T)$ has increasingly attracted theoretical and computational work[1]. The computation of reliable thermal rate values can be of great use in several realistic multiscale simulations of complex Systems [2]. Whenever an elementary chemical reaction occurs through a reaction barrier and no long-living complex is formed, a rigorous method of calculating $k(T)$ in a direct way. The method is based on a dynamics simulation confined in the region around the saddle point and has the advantage of decreasing significantly the numerical effort with respect to a full scattering simulation. The MCTDH scheme offers an additional numerical advantage to the approach [3] by expanding the time-dependent multidimensional wavefunction onto a basis of time-dependent functions.

Grid related relevance

It is accepted that the parametric nature of classical and semiclassical trajectory calculations makes these intrinsically suitable for implementation on computing grid and distributed computing naturally beneficial for related techniques. What is a new outcome of our work is that the flux correlation method can play an equivalent role for quantum calculations. This possibility is exploited by propagating separately the several quantum state basis functions. In this way, an increase of computational effort associated to the size of the full matrices to be propagated is transformed into a computational effort associated to the number of concurrent processes that need to be distributed. This methodological advance exploits the availability of the computing grid by making of the innovative features of the EGEE available to the COMPCHEM VO.

References

1. U. Manthe, *Journal of Theoretical and Computational Chemistry* 1 (2002) 153.
2. D. Bruno, M. Capitelli, S. Longo, P. Minelli, *Lecture Notes in Computer Science* 3044 (2004) 383–391.
3. F. Huarte-Larrañaga, U. Manthe, *Zeitschrift für Physikalische Chemie (Intl Edition)* 221 (2007) 171–213.

Contribution ID: 340

Type: **not specified**

Virtual Organisation for Central Europe (VOCE) achievements

Tuesday, 22 September 2009 11:50 (25 minutes)

Abstract

One of the crucial concepts allowing seamless utilization of any advanced research e-infrastructure - the worldwide EGEE Grid in particular - is the so-called "catch-all" virtual organization (VO) approach. Nowadays, the catch-all virtual organizations represent an effective way for end users to fully exploit the potential of e-infrastructures. Catch-all VOs are provided as a service to users communities as part of user support activities of several projects. Catch-all VOs bind together resource providers and different end user communities creating a worldwide grid platform easily available to users. Decreasing the entrance barrier is especially important for various regions with high heterogeneity and different grid knowledge of involved parties. Here we describe Virtual Organization for Central Europe (VOCE) - the catch-all VO service offered to all researchers from Central Europe region. VOCE proved the usability of the concept through its several years of existence by supporting general applications ranging from molecular modeling through phylogeny studies, plasma analysis up to astrophysics. Apart from individual routine utilization for daily research production it also supports challenging computational campaigns of various kinds.

One of such important areas is the application and implementation of novel methods for the free energy calculations. The free energy is an important thermodynamical quality used in biochemical and chemical disciplines. It forms an essential connection between theoretical models and experimentally observed data. Unfortunately, its calculation requires very long simulations to obtain converged and reliable results. Several methods were suggested and developed to overcome this well-known sampling problem. One of them is Multiple Walkers Approach [1] (MWA) connected with Adaptive Biasing Force (ABF) method [2]. Both implemented methods were applied in the study of supramolecular complexes. The study resulted into large-scale free energy calculations allowing to obtain detailed insight into interactions taking place in supramolecular structures.

References

- [1] Raiteri, P. et al. Efficient reconstruction of complex free energy landscapes by multiple walkers metadynamics. *JOURNAL OF PHYSICAL CHEMISTRY B* 110, 3533-3539(2006).
- [2] Darve, E., Rodriguez-Gomez, D. & Pohorille, A. Adaptive biasing force method for scalar and vector free energy calculations. *J. Chem. Phys.* 128, 144120-13(2008).

Primary author: Dr KMUNICEK, Jan (CESNET)

Session Classification: Computational Chemistry – Cluster status and evolution

Contribution ID: 341

Type: **not specified**

Current status of Chempo web portal

Tuesday, 22 September 2009 12:15 (25 minutes)

Abstract

New Grid users often face difficulties when using command line interfaces. This makes their adoption in the Grid environment much harder. To avoid users' disappointment, new web-based interface is proposed. In contrast to the existing web based tools the proposed portal will not only facilitate job management but primarily will serve as a work environment for chemists. Here, we present the current status of the portal development with particular focus on plug-in to the Gaussian computational chemistry package.

Existing web portals focus mainly on tasks, which simplify job management on the Grid. Although this is a very important, this part of portal functionality is not sufficient for scientists accustomed to GUI environments supporting their research conduction. Our solution in contrast to other existing web portals is "user centric" instead of "grid centric". Therefore, our aim was to provide tools facilitating research conduction and "hide" the existing grid infrastructure from the user as much as possible. The tools based on ViroLab Project technology together with Google Web Toolkit allow for easy planning, development and execution of computational experiments without being distracted by the grid technology. Currently users can execute and modify the existing experiments or create new ones with the help of the Gaussian package. Other packages will be incorporated in the near future.

Development of grid web portal for chemists is a next step towards better community satisfaction. As it focuses on computational experiments in chemistry rather than job management only, we expect high interest in it, coming mainly from new users adopting on the EGEE Grid. The availability of the portal will not only avoid new users' disappointment but what is more important will drastically shorten time needed for their adoption to the grid. Although the current version is limited to the Gaussian package only, most of the important chemistry tasks like chemical reaction paths, potential energy surfaces or even ab initio molecular dynamics can be easily performed on EGEE infrastructure.

The Grid Web portal for Chemists has been developed to fulfill community needs especially coming from users newly adapting to the Grid. Although number of software packages supported by the portal is very limited the collection of computational methods provided by Gaussian suite allows studies of variety of molecular properties. Nevertheless, our future work will focus on further adoption of other computational chemistry packages to extend available portfolio.

Session Classification: Computational Chemistry – Cluster status and evolution

Contribution ID: 342

Type: **not specified**

Terena Certificate Service - TCS

Wednesday, 23 September 2009 12:00 (30 minutes)

Primary author: Mr MEIJER, Jan

Presenter: Mr MEIJER, Jan

Session Classification: Future directions in Grid Security

Contribution ID: 343

Type: **not specified**

Grid calculation of reaction kinetic coefficients: a quantum mechanical approach

Tuesday, 22 September 2009 12:40 (20 minutes)

Abstract

Introduction

Our communication provides a detailed description of the gridification of a quantum method for the direct calculation of kinetic coefficients by means of flux correlation functions and the Multiconfigurational time-dependent Hartree (MCTDH) scheme for the wavefunction. The methodology has been implemented and made available to the COMPCHEM VO within EGEE. The performance and reliability of the method is illustrated by presenting the results of a computational campaign aimed at the calculation of the N + N₂ reaction rate coefficients using on the LAG3 potential energy surface.

Description

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Grid related relevance

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References

1. U. Manthe, Journal of Theoretical and Computational Chemistry 1 (2002) 153.
2. D. Bruno, M. Capitelli, S. Longo, P. Minelli, Lecture Notes in Computer Science 3044 (2004) 383–391.
3. F. Huarte-Larrañaga, U. Manthe, Zeitschrift für Physikalische Chemie (Intl Edition) 221 (2007) 171–213.

Session Classification: Computational Chemistry – Cluster status and evolution

Contribution ID: 344

Type: **not specified**

Security in EMI

Wednesday, 23 September 2009 12:30 (30 minutes)

Primary author: WHITE, John White (Helsinki Institute of Physics HIP)

Presenter: WHITE, John White (Helsinki Institute of Physics HIP)

Session Classification: Future directions in Grid Security

Contribution ID: 345

Type: **not specified**

Gergely Sipos (MTA SZTAKI) – Overview of EGEE support services

Tuesday, 22 September 2009 14:30 (10 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 346

Type: **not specified**

Marco Bencivenni (INFN-CNAF): Direct User Support and updates on EGEE use cases documentation

Tuesday, 22 September 2009 14:40 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 347

Type: **not specified**

Marios Chatziangelou (IASA) - Latest developments of the EGEE Application Database

Tuesday, 22 September 2009 15:00 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 348

Type: **not specified**

Weilong Ueng and Hsinyen Chen (ASGC) - Development of e-Science Application Portal on GAP

Tuesday, 22 September 2009 15:20 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 349

Type: **not specified**

Tamas Kiss (University of Westminster) – Support services for desktop grids and cluster grids by the EDGeS project

Tuesday, 22 September 2009 15:40 (25 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 350

Type: **not specified**

Gergely Sipos (MTA SZTAKI) - Latest results of the Grid Application Support Centre at SZTAKI

Tuesday, 22 September 2009 16:05 (25 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 351

Type: **not specified**

Giuseppe La Rocca (INFN Catania) – Application Porting achievements of the GILDA team

Tuesday, 22 September 2009 17:00 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 352

Type: **not specified**

José Luis Vázquez-Poletti (UCM): Application porting projects with the GridWay metascheduler - Novelties and features

Tuesday, 22 September 2009 17:20 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 353

Type: **not specified**

Alejandro Lorca (UCM) - Job Template Manager for parameter sweeping in the GridWay metascheduler

Tuesday, 22 September 2009 17:40 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 354

Type: **not specified**

Enol Fernandez (CSIC) – Porting of Astronomy & Astrophysics and Quantum Chemistry applications

Tuesday, 22 September 2009 18:00 (20 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 355

Type: **not specified**

Airaj Mohammed (CEA) – Porting support for grid users by CEA Paris

Tuesday, 22 September 2009 18:20 (15 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 356

Type: **not specified**

Tom Fifield (University of Melbourne) – Application Porting activity at the University of Melbourne

Tuesday, 22 September 2009 18:35 (15 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 357

Type: **not specified**

General questions and answers

Tuesday, 22 September 2009 18:50 (10 minutes)

Session Classification: Application Porting and User Support

Contribution ID: 358

Type: **not specified**

VOMS/VOMRS convergence

Tuesday, 22 September 2009 17:00 (20 minutes)

Primary author: CECCANTI, Andrea (Unknown)

Presenter: CECCANTI, Andrea (Unknown)

Session Classification: MiddleWare Security Group

Contribution ID: 359

Type: **not specified**

Data Management: SRM https access

Tuesday, 22 September 2009 17:20 (10 minutes)

Primary author: FROHNER, Akos (CERN)

Session Classification: MiddleWare Security Group

Contribution ID: **360**

Type: **not specified**

Towards CREAM - ARGUS integration

Tuesday, 22 September 2009 17:30 (15 minutes)

Session Classification: MiddleWare Security Group

Contribution ID: **361**

Type: **not specified**

SCAS Status

Tuesday, 22 September 2009 17:45 (15 minutes)

Primary author: KOEROO, Oscar (Unknown)

Presenter: KOEROO, Oscar (Unknown)

Session Classification: MiddleWare Security Group

Contribution ID: **362**

Type: **not specified**

Argus: technical status

Tuesday, 22 September 2009 18:00 (10 minutes)

Session Classification: MiddleWare Security Group

Contribution ID: **363**

Type: **not specified**

Argus: simplified policy language

Tuesday, 22 September 2009 18:10 (20 minutes)

Session Classification: MiddleWare Security Group

Contribution ID: **364**

Type: **not specified**

ARC security

Tuesday, 22 September 2009 18:30 (20 minutes)

Primary author: Mr KONYA, Balazs (Lund University)

Session Classification: MiddleWare Security Group

Contribution ID: 365

Type: **not specified**

Introduction - ES applications on Grid

Monday, 21 September 2009 14:30 (10 minutes)

Primary author: Dr PETITDIDIER, Monique (IPSL/LATMOS)

Session Classification: Earth Science GRID highlights

Contribution ID: 366

Type: **not specified**

Challenges in Earth Science Application Developments for Grid Architectures

Monday, 21 September 2009 14:40 (20 minutes)

Primary author: Prof. GORGAN, Dorian (UTCN - Technical Univ. of Cluj-Napoca)

Session Classification: Earth Science GRID highlights

Contribution ID: 367

Type: **not specified**

Nordic Data Grid Facility

Tuesday, 22 September 2009 09:30 (30 minutes)

Abstract

The Nordic DataGrid Facility is running a grid infrastructure in the Nordic countries. The Nordic grid infrastructure is used for the distributed Nordic WLCG Tier-1, several distributed WLCG Tier-2s and also for serving HPC users from Computational Chemistry, Bio-informatics, Environmental Sciences etc. The activities for maintaining the infrastructure consists of management, contributing to development of open source tools, monitoring and operating the infrastructure in a collaboration with the North-European EGEE ROC and the regional REN 24x7 operation team. This talk will concentrate on how these activities will be integrated into the EGI activities, where we find synergies and how the separation between European, regional, national and local responsibilities are going to be implemented, based on the existing collaborations.

Primary author: Dr GRØNAGER, Michael (NDGF)

Presenter: Dr GRØNAGER, Michael (NDGF)

Session Classification: Technical Plenary: Operational Grid Infrastructures after EGEE

Contribution ID: **368**

Type: **not specified**

GEOSS and CEOS

Monday, 21 September 2009 15:00 (15 minutes)

Primary author: Dr KUSSUL, Natalia (Space Research Institute NASU-NSAU (National Academy of Sciences of Ukraine))

Session Classification: Earth Science GRID highlights

Contribution ID: **369**

Type: **not specified**

Grid applications for air quality studies in Bulgaria

Monday, 21 September 2009 15:15 (20 minutes)

Primary author: Prof. GANEV, Kosta

Session Classification: Earth Science GRID highlights

Contribution ID: 370

Type: **not specified**

The Climate-G testbed: a data grid environment for climate change

Monday, 21 September 2009 15:35 (20 minutes)

Primary author: Prof. ALOISIO, giovanni (Euro Mediterranean Center for Climate Change (CMCC))

Session Classification: Earth Science GRID highlights

Contribution ID: 371

Type: **not specified**

Earth Science in the Taiwan Grid

Monday, 21 September 2009 15:55 (15 minutes)

Primary author: Prof. YEN, Eric

Session Classification: Earth Science GRID highlights

Contribution ID: 372

Type: **not specified**

Implementing OGC Web Services on gLite: the G-OWS initiative

Primary author: Prof. NATIVI, Stefano (Institute of Methodologies for Environmental Analysis (IMAA))

Contribution ID: 373

Type: **not specified**

The Staged Rollout

Wednesday, 23 September 2009 15:30 (30 minutes)

Presenter: RETICO, Antonio (CERN)

Session Classification: Orienting the gLite lifecycle to EGI

Contribution ID: 374

Type: **not specified**

gLite release process and product teams

Wednesday, 23 September 2009 14:30 (30 minutes)

Presenter: KEEBLE, Oliver (CERN)

Session Classification: Orienting the gLite lifecycle to EGI

Contribution ID: 375

Type: **not specified**

Future persepectives on the middleware release process

Wednesday, 23 September 2009 15:00 (30 minutes)

Presenter: GIACOMINI, Francesco (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: Orienting the gLite lifecycle to EGI

Contribution ID: 376

Type: **not specified**

Discussion

Wednesday, 23 September 2009 16:00 (30 minutes)

Session Classification: Orienting the gLite lifecycle to EGI

Contribution ID: 377

Type: **not specified**

Providing an e-Infrastructure for divergent research communities, connecting HPC, HTC, instruments and data

Tuesday, 22 September 2009 10:00 (30 minutes)

Primary author: WALLOM, David

Presenter: WALLOM, David

Session Classification: Technical Plenary: Operational Grid Infrastructures after EGEE

Contribution ID: 378

Type: **not specified**

Scientific User Communities in the EGI Era

Wednesday, 23 September 2009 09:00 (45 minutes)

Abstract

In parallel with the deployment of grid infrastructures in Europe, scientific user communities that use them to federate their computing and data resources have developed. These communities have been supported through a diverse collection of national and European projects, fostering technological change within their partner institutes. In many cases though, the patchwork nature of the funding and of the collaborations made broad technological change within those communities difficult. The transition from project-based grid infrastructures to a sustainable European Grid Infrastructure (EGI) presents challenges for the scientific user communities as well. User communities using EGI will be organized into Specialized Support Centres (SSCs) that will coordinate activities, safeguard technological expertise, and foster collaboration between people, institutes, and projects within the community. This presentation enumerates the challenges faced by the user communities during this transition and concludes with a discussion of how those challenges are currently being met.

Primary author: LOOMIS, Cal (CNRS/LAL)

Presenter: LOOMIS, Cal (CNRS/LAL)

Session Classification: Technical Plenary: Community Access to Production Resources

Contribution ID: 379

Type: **not specified**

Science Gateways and Their Tremendous Potential for Science and Engineering

Wednesday, 23 September 2009 09:45 (45 minutes)

Abstract

The increasingly digital component of science today poses exciting challenges and opportunities for researchers. Whether it's streaming data from sensors to computations simulating the formation of tornadoes, the tagging and sharing complex multimodal video, audio and biological data in the study of language patterns or the use of geographic information systems to anticipate the spread of disease, the challenges are enormous and continue to grow.

The existence of advanced Cyberinfrastructure (CI) tools or science gateways can significantly increase the productivity of researchers facing the most difficult challenges - in some cases making the impossible possible. The TeraGrid Science Gateways program works to incorporate high end resources through these community-designed interfaces.

Primary author: WILKINS-DIEHR, Nancy

Presenter: WILKINS-DIEHR, Nancy

Session Classification: Technical Plenary: Community Access to Production Resources

Contribution ID: **380**

Type: **not specified**

Self-Adaptive Architectures for Autonomic Computational Science

Monday, 21 September 2009 17:00 (30 minutes)

Presenter: Dr SHANTENU, Jha (Louisiana State University and e-Science Institute, Edinburgh)

Session Classification: Grid Observatory

Contribution ID: **381**

Type: **not specified**

A brief history of Grid Middleware - From early prototypes to today's services

Thursday, 24 September 2009 09:00 (45 minutes)

Primary author: LAURE, Erwin (CERN)

Presenter: LAURE, Erwin (CERN)

Session Classification: Technical Plenary: European Middleware Development and Support

Contribution ID: 382

Type: **not specified**

The European Middleware Initiative (EMI) - Empowering EGI

Thursday, 24 September 2009 09:45 (45 minutes)

Abstract

The European Middleware Initiative (EMI) project represents a close collaboration of the three major middleware providers, ARC, gLite and UNICORE, together with other software providers, to establish a sustainable model to support, harmonise and evolve the grid middleware for deployment in EGI as part of the Unified Middleware Distribution (UMD) and other connected e-Infrastructures. The presentation will describe the objectives of the EMI project and its expected interactions with EGI and connected e-Infrastructures and supporting communities' projects. The software components and services maintained and developed by the project, the harmonisation and standardisation objectives and the underlying industry-standard software engineering processes and services will be presented in detail.

Presenter: Dr DI MEGLIO, Alberto (CERN)

Session Classification: Technical Plenary: European Middleware Development and Support

Contribution ID: **383**

Type: **not specified**

Introduction of the Execution Environment Service (EES)

Wednesday, 23 September 2009 11:40 (20 minutes)

Primary author: SALLE, Mischa (NIKHEF-Unknown-Unknown)

Presenter: SALLE, Mischa (NIKHEF-Unknown-Unknown)

Session Classification: Future directions in Grid Security

Contribution ID: **384**

Type: **Session**

Incident Response

Thursday, 24 September 2009 14:30 (20 minutes)

Presenter: Mr WARTEL, Romain (CERN)

Session Classification: Operational Security Coordination Team meeting

Contribution ID: **385**

Type: **not specified**

Security Service Challenges

Thursday, 24 September 2009 14:50 (20 minutes)

Presenter: GABRIEL, Sven (Unknown)

Session Classification: Operational Security Coordination Team meeting

Contribution ID: **386**

Type: **not specified**

Training and dissemination

Thursday, 24 September 2009 15:10 (20 minutes)

Presenters: Dr MA, Mingchao (STFC - Rutherford Appleton Laboratory); MA, Mingchao (Unknown-Unknown-Unknown)

Session Classification: Operational Security Coordination Team meeting

Contribution ID: **387**

Type: **not specified**

Security Monitoring

Thursday, 24 September 2009 15:30 (20 minutes)

Presenter: KOURIL, Daniel (Unknown)

Session Classification: Operational Security Coordination Team meeting

Contribution ID: **388**

Type: **not specified**

EGI and future of the team

Thursday, 24 September 2009 15:50 (30 minutes)

Presenter: WARTEL, Romain (CERN)

Session Classification: Operational Security Coordination Team meeting

Contribution ID: **389**

Type: **not specified**

Discussion: Argus, AOB, next meeting

Thursday, 24 September 2009 16:20 (10 minutes)

Session Classification: Operational Security Coordination Team meeting

Contribution ID: **390**

Type: **not specified**

Welcome

Tuesday, 22 September 2009 11:00 (10 minutes)

Presenter: NEWHOUSE, Steven

Session Classification: The EGI Proposal

Contribution ID: 391

Type: **not specified**

Software Processes (SA2/SA3/SP)

Tuesday, 22 September 2009 11:10 (25 minutes)

Presenter: NEWHOUSE, Steven

Session Classification: The EGI Proposal

Contribution ID: 392

Type: **not specified**

Operations Objectives

Tuesday, 22 September 2009 11:35 (25 minutes)

Abstract

Presentation and discussion around the SA1 work package objectives in the EGI proposal.

Presenters: Dr GORDON, John (STFC-RAL); Dr FERRARI, Tiziana (INFN CNAF)

Session Classification: The EGI Proposal

Contribution ID: 393

Type: **not specified**

Supporting the Heavy User Communities

Tuesday, 22 September 2009 12:00 (25 minutes)

Abstract

The HUCs are supported through the general infrastructure and with specific transitional support through SA4 within EGI. This presentation and discussion will cover the current proposed support activities.

Presenters: PERINI, Laura (Dipartimento di Fisica); PERINI, laura (Milan University and INFN)

Session Classification: The EGI Proposal

Contribution ID: 394

Type: **not specified**

Supporting Users and SSCs

Tuesday, 22 September 2009 12:25 (25 minutes)

Abstract

The presentation and following discussion will highlight the interaction between EGI and its users.

Presenters: LOOMIS, Cal (CNRS/LAL); NEWHOUSE, Steven

Session Classification: The EGI Proposal

Contribution ID: 395

Type: **not specified**

Welcome and Introduction

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

ISTI-CNR

Primary author: Dr CASTELLI, Donatella (ISTI-CNR)

Contribution ID: 396

Type: **not specified**

Virtualizing research environments to hamper the complexity: D4Science solution for data sharing, manipulation, and analysis

Tuesday, 22 September 2009 12:00 (20 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

ISTI-CNR

Primary author: Dr PAGANO, Pasquale (CNR-ISTI)

Presenter: Dr PAGANO, Pasquale (CNR-ISTI)

Session Classification: Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Contribution ID: 397

Type: **not specified**

Welcome and Introduction

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

CNR-ISTI

Contribution ID: 398

Type: **not specified**

Welcome and Introduction

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

CNR-ISTI

Contribution ID: 399

Type: **not specified**

Mapping biodiversity hotspots and assessing impact of climate change

Tuesday, 22 September 2009 11:10 (20 minutes)

Primary author: Ms KASCHNER, Kristin (University of Freiburg - Faculty of Biology)

Presenter: Ms KASCHNER, Kristin (University of Freiburg - Faculty of Biology)

Session Classification: Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Contribution ID: 400

Type: **not specified**

Welcome and Introduction

Tuesday, 22 September 2009 11:00 (10 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

CNR-ISTI

Primary author: Dr CASTELLI, Donatella (ISTI-CNR)

Presenter: Dr CASTELLI, Donatella (ISTI-CNR)

Session Classification: Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Contribution ID: **401**

Type: **not specified**

EGI Science Gateway

Tuesday, 22 September 2009 19:00 (30 minutes)

Abstract

The EGI Science Gateway project is being developed to provide user communities with access to distributed computing infrastructures using web or desktop based tools. An overview will be provided on the scope of the project and possible activities.

Session Classification: EGI Science Gateways Initiative

Contribution ID: **402**

Type: **not specified**

Discussion

Tuesday, 22 September 2009 19:30 (30 minutes)

Abstract

Open discussion with representatives of the Heavy User Communities to understand their interest and potential involvement in the project

Session Classification: EGI Science Gateways Initiative

Contribution ID: 403

Type: **not specified**

LifeWatch - e-Infrastructure for Biodiversity Research

Tuesday, 22 September 2009 11:30 (15 minutes)

Primary author: Mr POIGNE, Axel (Fraunhofer Institute IAIS)

Presenter: Mr POIGNE, Axel (Fraunhofer Institute IAIS)

Session Classification: Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Contribution ID: 404

Type: **not specified**

Earth Science activity on Grid and its future

Tuesday, 22 September 2009 11:45 (15 minutes)

Primary author: Dr PETITDIDIER, Monique (LATMOS/IPSL)

Presenter: Dr PETITDIDIER, Monique (LATMOS/IPSL)

Session Classification: Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Contribution ID: 405

Type: **not specified**

Panel: "Federating Environmental Science resources: Is the EGI proposed pathway the right one? "

Tuesday, 22 September 2009 12:20 (40 minutes)

Session Classification: Deploying e-Infrastructures to enable multidisciplinary collaboration in Environmental Science

Contribution ID: **406**

Type: **not specified**

arcproxy

Tuesday, 22 September 2009 18:50 (10 minutes)

Session Classification: MiddleWare Security Group

Contribution ID: 407

Type: **not specified**

Sustainable Software Development for Public Research Infrastructures: how to do it right?

Monday, 21 September 2009 17:00 (20 minutes)

Session Classification: Software lifecycle management

Contribution ID: 408

Type: **not specified**

UNICORE development lifecycle

Monday, 21 September 2009 17:20 (20 minutes)

Presenter: Mr SCHULLER, Bernd (Juelich Supercomputing Centre)

Session Classification: Software lifecycle management

Contribution ID: **409**

Type: **not specified**

OSG development lifecycle

Monday, 21 September 2009 17:40 (20 minutes)

Session Classification: Software lifecycle management

Contribution ID: 410

Type: **not specified**

Managing grid security incidents

Tuesday, 22 September 2009 14:30 (20 minutes)

Presenter: WARTEL, Romain (CERN)

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: 411

Type: **not specified**

Security Monitoring, Pakiti and Nagio-based monitoring

Tuesday, 22 September 2009 14:50 (20 minutes)

Presenter: KOURIL, Daniel (CESNET)

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: 412

Type: **not specified**

Command line security tools: introduction and job-lookup-by-subject

Tuesday, 22 September 2009 15:10 (10 minutes)

Presenter: WITZIG, Christoph

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: 413

Type: **not specified**

Authorization Service, Argus command line tools and Central banning

Tuesday, 22 September 2009 15:30 (20 minutes)

Presenter: WITZIG, Christoph

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: 414

Type: **not specified**

User traceability and log analysis

Tuesday, 22 September 2009 15:50 (20 minutes)

Presenter: MISURELLI, Giuseppe (INFN)

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: 415

Type: **not specified**

Discussion - Q&A

Tuesday, 22 September 2009 16:10 (20 minutes)

Presenter: Dr MA, Mingchao (STFC - Rutherford Appleton Laboratory)

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: **416**

Type: **Session**

Welcome

Wednesday, 23 September 2009 17:00 (10 minutes)

Primary author: Mr FERNANDEZ SANCHEZ, Carlos (CESGA)

Presenter: Mr FERNANDEZ SANCHEZ, Carlos (CESGA)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: **417**

Type: **not specified**

APEL

Wednesday, 23 September 2009 17:10 (20 minutes)

Primary author: Mrs DEL CANO NOVALES, Cristina (Science and Technology Facilities Council, United Kingdom)

Presenter: Mrs DEL CANO NOVALES, Cristina (Science and Technology Facilities Council, United Kingdom)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: **418**

Type: **not specified**

DGAS

Wednesday, 23 September 2009 17:30 (20 minutes)

Primary author: GAIDO, Luciano (INFN)

Presenter: GAIDO, Luciano (INFN)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: **419**

Type: **not specified**

SGAS

Wednesday, 23 September 2009 17:50 (20 minutes)

Primary author: KLEIST, Josva (NDGF)

Presenter: KLEIST, Josva (NDGF)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: 420

Type: **not specified**

Open Science Grid Accounting - Gratia

Wednesday, 23 September 2009 18:10 (20 minutes)

Primary author: PORDES, Ruth (Fermilab)

Presenter: PORDES, Ruth (Fermilab)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: 421

Type: **not specified**

Accounting Portal

Wednesday, 23 September 2009 18:30 (20 minutes)

Primary author: Dr LOPEZ CACHEIRO, Javier (CESGA)

Presenter: Dr LOPEZ CACHEIRO, Javier (CESGA)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: 422

Type: **not specified**

Q&A

Wednesday, 23 September 2009 18:50 (10 minutes)

Session Classification: Accounting in EGEE: Status and Future

Contribution ID: 423

Type: **not specified**

GENESI-DR: a single access point to a distributed network of Earth Science DRs

Thursday, 24 September 2009 11:00 (20 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

European Space Agency

Primary author: COSSU, Roberto (ESA)

Presenter: COSSU, Roberto (ESA)

Session Classification: Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Contribution ID: 424

Type: **not specified**

EnviroGrids: a grid-enabled SDI for the sustainable Development of the

Thursday, 24 September 2009 12:20 (20 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

University of Geneve, UNEP

Presenter: Dr RAY, Nicolas (Climatic Change and Climate Impacts, EnviroSpace group, University of Geneva, Switzerland and UNEP/DEWA/GRID-Europe, Châtelaine, Switzerland)

Session Classification: Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Contribution ID: 425

Type: **not specified**

Earth Science Application Development Methodology by ESIP and gProcess Platforms

Thursday, 24 September 2009 11:40 (20 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Technical University of Cluj-Napoca

Presenter: GORGAN, Dorian (Technical University of Cluj-Napoca)

Session Classification: Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Contribution ID: 426

Type: **not specified**

GEOGrid

Thursday, 24 September 2009 11:20 (20 minutes)

Primary author: KOJIMA, Isao (AIST)

Presenter: KOJIMA, Isao (AIST)

Session Classification: Federation and interoperability of Earth Science Digital Repositories:
data discovery, access and visualization

Contribution ID: 427

Type: **not specified**

An interoperability architecture for geospatial resources

Thursday, 24 September 2009 12:00 (20 minutes)

Primary author: MAZZETTI, Paolo (CNR-IMAA)

Presenter: MAZZETTI, Paolo (CNR-IMAA)

Session Classification: Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Contribution ID: 428

Type: **not specified**

Cooperation between GENESI-DR and the EGEE Earth Science Cluster

Thursday, 24 September 2009 12:40 (10 minutes)

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

Fraunhofer-Institute

Primary author: GEMÜND, André

Presenter: GEMÜND, André

Session Classification: Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Contribution ID: **429**

Type: **not specified**

Discussion

Thursday, 24 September 2009 12:50 (10 minutes)

Session Classification: Federation and interoperability of Earth Science Digital Repositories: data discovery, access and visualization

Contribution ID: 430

Type: **not specified**

Command line security tools: client connect

Tuesday, 22 September 2009 15:20 (10 minutes)

Presenter: BALINT, Tunde (NIKHEF)

Session Classification: Joint Middleware and Operational Security Session (MWSG/OSCT)

Contribution ID: 431

Type: **not specified**

The ETICS Multi-Node Testing Feature

Wednesday, 23 September 2009 18:00 (30 minutes)

Primary author: DINI, Lorenzo (CERN - ETICS)

Presenter: DINI, Lorenzo (CERN - ETICS)

Session Classification: Distributed testing and testbed management

Contribution ID: 432

Type: **not specified**

Distributed Testbed Management

Wednesday, 23 September 2009 17:30 (30 minutes)

Primary author: PONCET, Louis (CERN)

Presenter: PONCET, Louis (CERN)

Session Classification: Distributed testing and testbed management

Contribution ID: 433

Type: **not specified**

Testing VOMS with ETICS, dejagnu and lcov

Wednesday, 23 September 2009 18:30 (30 minutes)

Primary author: Dr CIASCHINI, Vincenzo (INFN CNAF)

Presenter: Dr CIASCHINI, Vincenzo (INFN CNAF)

Session Classification: Distributed testing and testbed management

Contribution ID: 434

Type: **not specified**

EELA-2

Wednesday, 23 September 2009 11:00 (20 minutes)

Primary author: MARECHAL, Bernard

Co-authors: GAVILLET, Philippe (CERN); BARBERA, Roberto (UNIV. CATANIA AND INFN)

Presenter: GAVILLET, Philippe (CERN)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 435

Type: **not specified**

EU-AsiaGRID

Wednesday, 23 September 2009 11:20 (20 minutes)

Primary author: PAGANONI, Marco (INFN)

Presenter: PAGANONI, Marco (INFN)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 436

Type: **not specified**

SEEGRID-SCI

Wednesday, 23 September 2009 11:40 (20 minutes)

Primary author: PRNJAT, Ognjen (Unknown)

Presenter: PRNJAT, Ognjen (Unknown)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: **437**

Type: **not specified**

SEEGRID-SCI

Contribution ID: 438

Type: **not specified**

BalticGrid 2

Wednesday, 23 September 2009 12:00 (20 minutes)

Presenter: EDLUND, Ake (Unknown)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 439

Type: **not specified**

Lustre setup at QMUL

Tuesday, 22 September 2009 15:50 (10 minutes)

Session Classification: WLCG Operations: Perspectives for Imminent Data Taking

Contribution ID: 440

Type: **not specified**

EUChinaGrid

Wednesday, 23 September 2009 12:20 (20 minutes)

Primary author: Dr ANDRONICO, Giuseppe (INFN SEZIONE DI CATANIA)

Presenter: Dr ANDRONICO, Giuseppe (INFN SEZIONE DI CATANIA)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 441

Type: **not specified**

EUIndiaGrid2

Wednesday, 23 September 2009 14:30 (20 minutes)

Primary author: MASONI, Alberto (Univ. + INFN)

Co-author: VERLATO, Marco (Dipartimento di Fisica Galileo Galilei)

Presenter: VERLATO, Marco (Dipartimento di Fisica Galileo Galilei)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 442

Type: **not specified**

EUMEDGRID-Support

Wednesday, 23 September 2009 14:50 (20 minutes)

Primary author: Dr REALE, Mario (GARR)

Presenter: Dr REALE, Mario (GARR)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 443

Type: **not specified**

CHAIN project

Wednesday, 23 September 2009 15:10 (30 minutes)

Primary author: Dr RUGGIERI, Federico (INFN)

Presenter: Dr RUGGIERI, Federico (INFN)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 444

Type: **not specified**

Discussion and Round Table

Wednesday, 23 September 2009 15:40 (30 minutes)

Session Classification: Regional Extensions of Grid Infrastructures

Contribution ID: 445

Type: **not specified**

Introduction

Contribution ID: 446

Type: **not specified**

Introduction

Session Description (include details of proposed agenda, potential speakers and expected outcomes)

The goal is to share our experience and plans as supporting users. I have “used” my HEP colleagues (in particular from ATLAS) as examples in different areas (data management, site validation and user support).

This explains the bigger representation since I am involved in several of these activities. I think an interesting bit will be that these activities span across some traditional boundaries (just as an example, ATLAS users are supported for the activity on EGEE, NDGF and OSG in an uniform way).

I think that the contributions from the our communities communities will help us to produce a more complete picture of this important area. In the past the approach to discuss across application boundaries proved quite useful.

It puts things in perspective, it allows to advance in the understanding of our activities and in some cases led to useful collaborations.

Presenter: Dr LAMANNA, Massimo (CERN)

Contribution ID: 447

Type: **not specified**

Application-specific data mgmt on the Grid

Thursday, 24 September 2009 11:05 (15 minutes)

Presenter: Mr BARREIRO MEGINO, Fernando Harald (CERN)

Session Classification: Users on the Grid

Contribution ID: 448

Type: **not specified**

Application-specific data mgmt on the Grid

Contribution ID: 449

Type: **not specified**

Ganga robot and HammerCloud

Thursday, 24 September 2009 11:20 (15 minutes)

Presenter: Dr MAIER, Andrew (CERN)

Session Classification: Users on the Grid

Contribution ID: 450

Type: **not specified**

Distributed Analysis Shift

Thursday, 24 September 2009 11:35 (15 minutes)

Presenter: SAMSET, Bjorn (University of Oslo)

Session Classification: Users on the Grid

Contribution ID: 451

Type: **not specified**

User support in the Life Science community

Thursday, 24 September 2009 11:50 (15 minutes)

Presenter: Dr BLANQUER, Ignacio (UPV - ITACA - GRyCAP)

Session Classification: Users on the Grid

Contribution ID: 452

Type: **not specified**

User support in the Fusion community

Thursday, 24 September 2009 12:05 (15 minutes)

Presenter: GOMEZ, Antonio (CIEMAT Madrid)

Session Classification: Users on the Grid

Contribution ID: 453

Type: **not specified**

User support in the CompChemistry community

Thursday, 24 September 2009 12:20 (10 minutes)

Presenter: STERZEL, Mariusz (ACC "Cyfronet" AGH)

Session Classification: Users on the Grid

Contribution ID: 454

Type: **not specified**

Certification and Testing in the Product Team era

Wednesday, 23 September 2009 17:00 (30 minutes)

Primary author: Mr ELWELL, Andrew (CERN)

Presenter: Mr ELWELL, Andrew (CERN)

Session Classification: Distributed testing and testbed management

Contribution ID: 455

Type: **not specified**

User support in the Earth Sciences community

Thursday, 24 September 2009 12:30 (15 minutes)

Presenter: SCHWICHTENBERG, Horst (SCAI/FhG)

Session Classification: Users on the Grid

Contribution ID: 456

Type: **not specified**

User support in the Astronomy and Astrophysics community

Thursday, 24 September 2009 12:45 (15 minutes)

Presenter: Dr VUERLI, Claudio (INAF-OA Trieste)

Session Classification: Users on the Grid

Contribution ID: 457

Type: **not specified**

User support in the Astronomy and Astrophysics community (TBC)

Contribution ID: 458

Type: **not specified**

AMGA announcement

Thursday, 24 September 2009 11:00 (5 minutes)

Presenter: Dr CALANDUCCI, Tony (INFN Catania)

Session Classification: Users on the Grid

Contribution ID: 459

Type: **not specified**

Training services offered by SZTAKI for EGEE and EGI

Thursday, 24 September 2009 14:30 (15 minutes)

Presenter: SIPOS, Gergely (Mr.)

Session Classification: Services for sustainable training communities in EGI

Contribution ID: 460

Type: **not specified**

GILDA t-Infrastructure report and future perspectives

Thursday, 24 September 2009 14:45 (15 minutes)

Presenter: GIORGIO, Emidlo (Unknown)

Session Classification: Services for sustainable training communities in EGI

Contribution ID: 461

Type: **not specified**

Training within UK NGS

Thursday, 24 September 2009 15:00 (15 minutes)

Presenter: FERGUSSON, David (Unknown)

Session Classification: Services for sustainable training communities in EGI

Contribution ID: 462

Type: **not specified**

UNICORE Training Activities

Thursday, 24 September 2009 15:15 (10 minutes)

Presenter: MCCONNELL, Robin John (College of Science and Engineering - University of Edinburgh)

Session Classification: Services for sustainable training communities in EGI

Contribution ID: 463

Type: **not specified**

Open Discussion

Thursday, 24 September 2009 15:35 (20 minutes)

Session Classification: Services for sustainable training communities in EGI

Contribution ID: 464

Type: **not specified**

Arcproxy

Wednesday, 23 September 2009 11:00 (10 minutes)

Primary author: Dr SMIRNOVA, Oxana (LUND UNIVERSITY)

Presenter: Dr SMIRNOVA, Oxana (LUND UNIVERSITY)

Session Classification: Future directions in Grid Security

Contribution ID: 465

Type: **not specified**

Introduction

Tuesday, 22 September 2009 12:00 (15 minutes)

Session Classification: Bio-inspired Algorithms in Grid.

Contribution ID: 466

Type: **not specified**

DIOGENES: Application Oriented Task Scheduling Using Genetic Algorithms

Tuesday, 22 September 2009 12:30 (15 minutes)

Session Classification: Bio-inspired Algorithms in Grid.

Contribution ID: 467

Type: **not specified**

Other Works in Bio-inspired Strategies and Grid

Tuesday, 22 September 2009 12:45 (15 minutes)

Session Classification: Bio-inspired Algorithms in Grid.

Contribution ID: 468

Type: **not specified**

Grid-based Metaheuristics Applied to Nuclear Fusion

Tuesday, 22 September 2009 12:15 (15 minutes)

Session Classification: Bio-inspired Algorithms in Grid.

Contribution ID: 469

Type: **not specified**

Middleware in EGI-InSPIRE

Thursday, 24 September 2009 11:00 (30 minutes)

Primary author: Mr KRENEK, Ales (MASARYK UNIVERSITY, BRNO, CZECH REPUBLIC)

Presenter: Mr KRENEK, Ales (MASARYK UNIVERSITY, BRNO, CZECH REPUBLIC)

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 470

Type: **not specified**

The EMI Software Engineering Model

Thursday, 24 September 2009 11:30 (30 minutes)

Primary author: Dr DI MEGLIO, Alberto (CERN)

Presenter: Dr DI MEGLIO, Alberto (CERN)

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 471

Type: **not specified**

ARC and EMI: Objectives and Plans

Thursday, 24 September 2009 14:30 (30 minutes)

Primary author: Mr KONYA, Balazs (Lund University)

Presenter: Mr KONYA, Balazs (Lund University)

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 472

Type: **not specified**

gLite and EMI: Objectives and Plans

Thursday, 24 September 2009 15:00 (30 minutes)

Primary author: GIACOMINI, Francesco (Istituto Nazionale di Fisica Nucleare (INFN))

Presenter: GIACOMINI, Francesco (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 473

Type: **not specified**

UNICORE and EMI: Objectives and Plans

Thursday, 24 September 2009 15:30 (30 minutes)

Primary author: Mr REIDEL, Morris

Presenter: Mr REIDEL, Morris

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 474

Type: **not specified**

Q/A

Thursday, 24 September 2009 12:00 (1 hour)

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 475

Type: **not specified**

Q/A

Thursday, 24 September 2009 16:00 (30 minutes)

Session Classification: Unified Middleware Distribution – handling middleware in the EGI era

Contribution ID: 476

Type: **not specified**

Wrap up and Outlook

Thursday, 24 September 2009 17:00 (15 minutes)

Presenter: NEWHOUSE, Steven

Session Classification: Awards, Outlook and Wrap Up Session

Contribution ID: 477

Type: **not specified**

Awards

Thursday, 24 September 2009 17:15 (15 minutes)

Presenter: Dr JONES, Bob (CERN)

Session Classification: Awards, Outlook and Wrap Up Session

Contribution ID: 478

Type: **not specified**

Next Event - 5th EGEE UF Uppsala

Thursday, 24 September 2009 17:30 (15 minutes)

Presenter: LAURE, Erwin (CERN)

Session Classification: Awards, Outlook and Wrap Up Session

Contribution ID: 479

Type: **not specified**

Thank you and goodbye

Thursday, 24 September 2009 17:45 (15 minutes)

Presenter: Dr JONES, Bob (CERN)

Session Classification: Awards, Outlook and Wrap Up Session

Contribution ID: **480**

Type: **not specified**

Scientific Gateways

Friday, 25 September 2009 09:50 (20 minutes)

Primary author: CROUCH, Stephen

Session Classification: SSC Workshop: Status of Preparations for EGI SSCs (EARLY START TIME!)

Contribution ID: **481**

Type: **not specified**

Grid Computing For Fusion Research

Monday, 21 September 2009 14:30 (1 hour)

Session Classification: Fusion Activities in the Grid, and related projects

Contribution ID: 482

Type: **not specified**

Improvement of plasma confinement using grid computing

Monday, 21 September 2009 15:30 (1 hour)

Session Classification: Fusion Activities in the Grid, and related projects

Contribution ID: 483

Type: **not specified**

Fusion Activities at CIEMAT ICT Division

Monday, 21 September 2009 17:00 (1 hour)

Session Classification: Fusion Activities in the Grid, and related projects

Contribution ID: 484

Type: **not specified**

Google Summer of Code Projects may help you with Fusion Physics Applications on Grid

Monday, 21 September 2009 18:00 (1 hour)

Session Classification: Fusion Activities in the Grid, and related projects

Contribution ID: 485

Type: **not specified**

Grid Applications for Air Quality Studies in Bulgaria

Primary author: GANEV, Kostadin (Geophysical Institute, BAS)