

# **EGI Technical Forum 2010**

**Tuesday 14 September 2010 - Friday 17 September 2010**

**Beurs van Berlage**  
**Programme**

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## Tuesday 14 September 2010

### ENVRI Project Meeting (Private) - Archief Damrakzijde (09:00-17:30)

- Conveners: Newhouse, Steven

### Coffee / Tea - Grote zaal (10:30-11:00)

### Opening & Welcome - Yakult Room (11:00-12:30)

time	[id]	title	presenter
11:00	[59]	Welcome from the Local Organisers	RIJN, Arjen
11:15	[60]	Presentation from IBM & ARUBA	
11:35	[61]	Presentation from the European Commission	
11:55	[62]	Current Status of EGI.eu and EGI-InSPIRE	NEWHOUSE, Steven

### Lunch - Grote zaal (12:30-14:00)

### AAI Needs of the DCIs - Berlage (14:00-15:30)

This is an EMI workshop on gathering the requirements of Authentication and Authorization Infrastructure (AAI) for various Distributed Computing Infrastructures (DCIs).

This workshop surveys AAI needs in DCIs in order to pick the most relevant ones that have to be supported by the EMI common security infrastructure.

There will be presentations from Grid User groups, ESFRI projects and DCIs on which Authentication and Authorization Infrastructure (AAI) systems they currently use or expect to use in the foreseeable future.

- Conveners: White, John; Witzig, Christoph

time	[id]	title	presenter
14:00	[175]	Welcome/Introduction	
14:10	[176]	Earth Sciences Community	SCHWICHTENBERG, Horst
14:25	[177]	Biomedical Community	Mr. MONTAGNAT, Johan
14:40	[178]	CLARIN Project	
14:55	[179]	EuroFEL Project	
15:10	[180]	ELIXIR Project	

### EGI CISRT F2F (Closed) - Mendes da Costa (14:00-15:30)

- Conveners: Dr. Ma, Mingchao

time	[id]	title	presenter
14:00	[27]	Roundtable Introduction	
14:05	[28]	Introduction to EGI CSIRT	Dr. MA, Mingchao
14:25	[29]	Update from Incident Response Task Force	NIXON, Leif

14:45	[30] Update from Security Drill Group	Dr. GABRIEL, Sven
15:05	[31] Security Service Challenge 4 debrief	Dr. GABRIEL, Sven

**EGI Production Infrastructure - Graanbeurszaal (14:00-15:30)**

- Conveners: Dr. Ferrari, Tiziana

**EGI-InSPIRE External Advisory Committee (Closed) - Derkindern (14:00-15:30)**

- Conveners: Newhouse, Steven

**Instrumenting the Infrastructure - Verwey (14:00-15:30)**

- Conveners: Germain-Renaud, Cecile

time	[id] title	presenter
14:00	[11] Using agents to support grid users	Dr. DELGADO OLABARRIAGA, Sylvia Mr. DRENTHE, Eduard
14:20	[12] Operations in the biomed VO: monitoring and incident prevention	GLATARD, Tristan
14:40	[13] Monitoring of the infrastructure from the VO perspective	ANDREEVA, julia
15:05	[14] Scalable stochastic tracing of large-scale data management events	LASSNIG, Mario

**User Training - Getting started with the European Grid Infrastructure - Keurzaal (14:00-15:30)**

**Introduction**

This session provides introduction to the concepts of Grid Computing, and to the architecture, components and user support services of the European Grid Infrastructure (EGI).

The session consists of short talks and demonstrations that introduce

**Main services of the European Grid Infrastructure**

Getting access to the EGI production infrastructure

Lifecycle of a job, low level access: command line tools

Complex jobs, high level tools for application development

Providing grid applications for end users

The course does not require prior knowledge of grid computing and of EGI. It aims to demonstrate the value of

EGI for data- and compute-intensive e-Science projects, and give practical information on the steps that need to

be taken to benefit from EGI services. Attendees will have the opportunity to become familiar with the structure and

components of the European Grid and how these can advance e-Science applications.

**Speakers**

**Speakers are from European research institutes and universities and operate User Community Support services in EGI.**

**Registration**

**The tutorial is part of the main program of the EGI Technical Forum, no additional registration is required.**

**- Conveners: Sipos, Gergely**

**Coffee / Tea - Grote zaal (15:30-16:00)**

**AAI Needs of the DCIs - Berlage (16:00-17:30)**

**This is an EMI workshop on gathering the requirements of Authentication and Authorization Infrastructure (AAI) for various Distributed Computing Infrastructures (DCIs).**

**This workshop surveys AAI needs in DCIs in order to pick the most relevant ones that have to be supported by the EMI common security infrastructure.**

**There will be presentations from Grid User groups, ESFRI projects and DCIs on which Authentication and Authorization Infrastructure (AAI) systems they currently use or expect to use in the foreseeable future.**

**- Conveners: White, John; Witzig, Christoph**

**EEF Requirements and the ESFRI projects: Social Sciences and Humanities (SSH) Projects - Yakult Room (16:00-17:30)**

**- Conveners: Wittenburg, Peter; Marker, Hans Jørgen**

**EGI CISRT F2F (Closed) - Mendes da Costa (16:00-17:30)**

**- Conveners: Dr. Ma, Mingchao**

time	[id] title	presenter
16:00	[32] Update from Security Monitoring Group	KOURIL, Daniel
16:20	[33] Update from Security Training Group	BUEHLER, Wilhelm
16:40	[34] Update from WLCG	WARTEL, Romain
17:00	[35] Open Discussion	

**Grid Operations Interoperations - Graanbeurszaal (16:00-17:30)**

A growing EGI production infrastructure has to define a basic set of operational interfaces, this touches tools as well as procedures and policies. It should be in the interest of the NGIs to push development in this field and spread their wishes and requests to achieve a smoothless experience for a regional operator on duty.

This session introduces you to the new field of operational interoperability and confronts you with different ideas and approaches to achieve the desired state. We will see already successful examples when it comes to integration of middleware stack services in the current EGI production infrastructure as well as examples where they real work hasn't even started yet. More exact requirements have to be defined and a basic understanding of different viewpoints is hopefully established during this session.

- Conveners: Lechner, Michaela

time	[id] title	presenter
16:00	[136] Grid Operations Interoperability Overview	LECHNER, Michaela
16:10	[137] The Operations Portal and the Grid Operations Interoperability	LORPHELIN, Cyril
16:30	[138] Procedures and Policies	HANSPER, Vera
16:50	[139] Fitting ARC services into the EGI infrastructure	GRONAGER, Michael
17:10	[140] Operational Integration of UNICORE services	BREU, Rebecca

**Instrumenting the Infrastructure - Verwey (16:00-17:30)**

- Conveners: Germain-Renaud, Cecile

time	[id] title	presenter
16:00	[15] The EMI Infrastructure Services: An Overview	FIELD, Laurence
16:25	[16] Understanding Large Scale HPC Systems Through Scalable Monitoring and Analysis	GENTILE, Ann
16:50	[17] Results and issues for the Grid Observatory	GERMAIN-RENAUD, Cécile
17:10	[18] Integrating Cloud Monitoring and Accounting with Grid Operational Tools	Mr. FLOROS, Evangelos

**Private Meeting - Derkindern (16:00-17:30)**

Bilateral discussions on legal and financial matters with EC Unit's legal and financial officer

- Conveners: bitoune, celine

**Software Provisioning in EGI - Keurzaal (16:00-17:30)**

- Conveners: Newhouse, Steven

**Welcome Reception - Yakult Room (17:30-19:00)**

- Conveners: Newhouse, Steven

## Wednesday 15 September 2010

### **Plenary Keynote - Yakult Room (09:00-10:30)**

time	[id]	title	presenter
09:00	[64]	National Research and Education Networks as engines for innovation in research	BOS, Erik-Jan
09:45	[63]	LifeWatch: An e-Science infrastructure for biodiversity research	HARDISTY, Alex

### **Coffee / Tea - Grote zaal (10:30-11:00)**

### **EEF Requirements and the ESFRI projects: Environmental (ENV) Projects - Yakult Room (11:00-12:30)**

- Conveners: Mr. Hardisty, Alex

### **EGI User Support Services - Berlage (11:00-12:30)**

- Conveners: Chatziangelou, Marios

time	[id]	title	presenter
11:00	[85]	User & Community Support Process/Team	Mr. BREWER, Stephen
11:20	[86]	Training Events/Training Repository	
11:40	[87]	EGI Applications Database	Mr. KARAGEORGOS, Vassilis William
11:55	[88]	VO Services	
12:10	[89]	Applications Porting/Support	

### **OLA Workshop - Keurzaal (11:00-12:30)**

- Conveners: Kanellopoulos, Christos

### **Software Vulnerability Group - Verwey (11:00-12:30)**

This purpose of the EGI Software Vulnerability Group (SVG) is to eliminate existing software vulnerabilities from the EGI infrastructure and prevent the introduction of new ones. Thus reducing the likelihood of Security Incidents.

The first talk in this session describes the scope and process for handling vulnerability issues in the EGI infrastrucutre and ensuring their resolution, and more general activities.

The second talk describes work being carried out to assess software for vulnerabilities.

- Conveners: Cornwall, Linda

time	[id]	title	presenter
11:00	[82]	Handling Software Vulnerabilities in the EGI infrastructure	
11:45	[83]	In Depth Vulnerability Assessment of Middleware	
12:15	[84]	Discussion	

### **TERENA NRENs and Grids Workshop - Mendes da Costa (11:00-12:30)**

- **Conveners: Szegedi, Peter; Schofield, Brook**

time	[id] title	presenter
11:00	[65] Grid Jobs for Network Monitoring for the Grid	
11:30	[67] PerfSONAR-Lite TSS Troubleshooting System	
12:00	[68] PerfSONAR development	

**The DCI Projects: Roadmap and Interactions - Graanbeurszaal (11:00-12:30)**

- **Conveners: Newhouse, Steven; Muscella, Silvana; Andreozzi, Sergio**

time	[id] title	presenter
11:00	[98] Presentation of the DCI Roadmap and Interactions	NEWHOUSE, Steven
11:30	[99] DCI Projects Panel	MUSCELLA, Silvana

**Lunch - Grote zaal (12:30-14:00)**

**Production Grid Security Coordination (Closed) - Derkindern (12:30-16:00)**

- **Conveners: Ma, Mingchao**

**Accounting Workshop - Verwey (14:00-15:30)**

Workshop bringing together developers within the EGI-InSPIRE and EMI projects involved with accounting, and the resource providers in the NGIs and user communities that have requirements relating to accounting information.

- **Conveners: Dr. Gordon, John**

**EEF Requirements and the ESFRI projects: Summary and Next Steps - Yakult Room (14:00-15:30)**

- **Conveners: Dr. Jones, Bob**

time	[id] title	presenter
14:00	[110] Introduction	Dr. JONES, Bob
14:05	[114] Overview of the environmental sciences (ENV) use-cases	HARDISTY, Alex
14:20	[112] Overview of the social sciences and humanities (SSH) use-cases	BROEDER, Daan
14:35	[115] Overview of the life sciences (BMS) use-cases	
14:50	[117] Overview of the Physics, Astronomy and Analytical Facilities (PHYS) use-cases	JONES, Bob
15:05	[119] Overview of the EUDAT use-cases	Dr. KOSKI, Kimmo
15:20	[120] Discussion and Summary	

**Grid Oversight, ensuring the quality of the Grid infrastructure - Berlage (14:00-15:30)**

- **Conveners: Hansper, Vera; Trompert, Ron; Radecki, Radecki**

time	[id] title	presenter
14:00	[149] The COD activity and site availability, ensuring the quality of the Grid	RADECKI, Radecki
14:30	[150] From EGEE to EGI, the transition from ROCs to NGIs	KRAKOWIAN, Malgorzata
15:00	[151] Operational documentation	HANSPER, Vera

**Project Administrative Committee (Closed) - Archief Damrakzijde (14:00-15:30)**

**TERENA NRENs and Grids Workshop - Mendes da Costa (14:00-15:30)**

- Conveners: Szegedi, Peter; Schofield, Brook

time	[id] title	presenter
14:00	[66] Overview of Grid technology for AAI	
14:25	[21] State of the SAML federation landscape - moving closer to the grids	
14:50	[22] Policy issues for Identity Management (and other Attributes too)	
15:15	[23] Discussion Panel: SAML + Grid Policy and Progress	

**The DCI Projects: Standards and Interoperability Roadmap - Graanbeurszaal (14:00-15:30)**

- Conveners: Newhouse, Steven; Muscella, Silvana; Andreozzi, Sergio

time	[id] title	presenter
14:00	[101] Interoperability and the need for standards in the DCI Roadmap Vision	ANDREOZZI, Sergio
14:30	[102] Contribution of the Production Grid Infrastructure WG	Mr. RIEDEL, MORRIS
14:50	[103] Contribution of the Open Cloud Computing Interface WG	
15:10	[104] Contribution of the DCI Federation WG	Mr. PAPASPYROU, Alexander

**Virtual Research Communities - Keurzaal (14:00-15:30)**

The purpose of this two-part session is to present and discuss the role of the VRC in the EGI era. EGI defines the VRC as a "self-organising group that collects and represents the interests of a focussed collection of researchers across a clear and well-defined field". During the first half a number of presentations will be made on behalf of communities that could become VRCs. During the second half the working relationship between VRCs and EGI will be discussed and refined.

- Conveners: Brewer, Stephen

time	[id] title	presenter
14:00	[141] Introduction: the role of the VRC	
14:20	[142] DARIAH brief overview	
14:30	[143] CLARIN brief overview	
14:40	[145] GISELA brief overview	
14:50	[144] EnviroGrids brief overview	
15:00	[146] WeNMR brief overview	
15:10	[147] The EGI VRC accreditation process	

**Coffee / Tea - Grote zaal (15:30-16:00)**

**VENUS-C Project Meeting (Closed) - Roland Holst Kamer (15:30-17:30)**

**Accounting Workshop - Verwey (16:00-17:30)**

Workshop bringing together developers within the EGI-InSPIRE and EMI projects involved with accounting, and the resource providers in the NGIs and user communities that have requirements relating to accounting information.

- Conveners: Dr. Gordon, John

**Data Management Requirements in EGI - Yakult Room (16:00-17:30)**

This session will review policy and strategic issues around data management arising from the work of a number of recent influential expert activities and touch on how EGI and NGIs can and should respond to the recommendations and requirements as seen from each area/activity.

- Conveners: Geddes, Neil

time	[id] title	presenter
16:00	[94] High Level Expert Group on Scientific Data	
16:25	[95] eIRG Data Management Task Force	
16:50	[96] Data Management Issues in Digital Cultural Heritage	
17:15	[97] Discussion	

**ESFRI ENV & EGI (Closed) - Derkindern (16:00-17:30)**

- Conveners: Newhouse, Steven

**Grid Oversight, ensuring the quality of the Grid infrastructure - Berlage (16:00-17:30)**

- Conveners: Hansper, Vera; Trompert, Ron; Radecki, Radecki

time	[id] title	presenter
16:00	[152] Ensuring the quality of the Grid, a discussion session	

**Message Passing Interface - Current Status and Future Developments - Archief Damrakzijde (16:00-17:30)**

- Conveners: Dr. Campos Plasencia, Isabel Campos Plasencia; Walsh, John

**TERENA NRENs and Grids Workshop - Mendes da Costa (16:00-17:30)**

- Conveners: Szegedi, Peter; Schofield, Brook

time	[id] title	presenter
16:00	[24] Summary of AAI Req's for DCIs	
16:25	[25] AAI-enabled VO Platform at SWITCH	
16:50	[26] perfSONAR + SIR federation	

**Telling your story - Graanbeurszaal (16:00-17:30)**

As the eInfrastructure landscape changes across Europe, so do the routes for communicating the successes of your work. This session aims to introduce the new dissemination team at the EGI to the community and explain how they go about sourcing, writing and promoting success stories from the grid world. Also at the session will be a journalist who will explain what they are looking for in a story and what they want from you. The eScienceTalk team will also be on hand to explain their project and how researchers can help them (and themselves) with the project's products.

- Conveners: Gater, Catherine; Mr. O'Neill, Neasan

time	[id] title	presenter
16:00	[157] EGI and Dissemination	COELHO, Sara

16:10	[158] eScienceTalk/iSGTW	Ms. LALLOO, Manisha Mr. DROLLETTE, Dan
16:20	[159] Telling your story	Mr. INCE, Martin
17:00	[160] Q&A	GATER, Catherine

**Virtual Research Communities - Keurzaal (16:00-17:30)**

**The purpose of this two-part session is to present and discuss the role of the VRC in the EGI era. EGI defines the VRC as a "self-organising group that collects and represents the interests of a focussed collection of researchers across a clear and well-defined field". During the first half a number of presentations will be made on behalf of communities that could become VRCs. During the second half the working relationship between VRCs and EGI wil be discussed and refined.**

**- Conveners: Brewer, Stephen**

time	[id] title	presenter
16:00	[148] The role of the VRC: general discussion	

# Thursday 16 September 2010

## **ESFRI Pilot Project Coordinators - Archief Damrakzijde (09:00-17:30)**

### **Plenary Keynote - Yakult Room (09:00-10:30)**

time	[id] title	presenter
09:00	[130] Managing Clouds, The Impact Of Virtualization In The Data Center	

### **Coffee / Tea - Grote zaal (10:30-11:00)**

### **EGI-InSPIRE CB (Closed) - Mendes da Costa (11:00-12:30)**

- Conveners: Newhouse, Steven

### **European Middleware Initiative - Yakult Room (11:00-12:30)**

- Conveners: Meglio, Alberto; Cresti, Diana

time	[id] title	presenter
11:00	[46] Introduction to EMI	MEGLIO, Alberto
11:10	[47] EMI Collaboration Programs	CRESTI, Diana
11:30	[48] User Experience: a stable user community	
11:45	[49] User Experience: an emerging user community	
12:00	[50] Open Discussion	

### **Heavy User Communities - Requirements - Berlage (11:00-12:30)**

**Input from projects such as EnviroGRIDS (ES), PARTNER (LS) and ULICE (LS). Also other related projects / activities either in areas directly relevant for the Heavy User Communities or else those interested in adopting these technologies in the immediate future.**

- Conveners: Shiers, Jamie

time	[id] title	presenter
11:00	[70] Hadrontherapy and Grids - Issues and Requirements	Prof. PEACH, Ken
11:20	[72] The Climate-G testbed: issues, requirements and results	ALOISIO, Giovanni FIORE, Sandro
11:40	[73] Life Science Requirements	KEUCHKERIAN, Samuel
12:00	[71] Panel on Common Requirements	Prof. SALT, José ALOISIO, Giovanni Mr. MONTAGNAT, Johan KEUCHKERIAN, Samuel PEACH, Ken KOKOSZKIEWICZ, Łukasz

### **Interoperation HPC & HTC - Verwey (11:00-12:30)**

**Modern research communities often require access to both HPC and HTC computing infrastructures to enable leading edge research.**

**Ambitious research projects leverage the power of the different infrastructures and engage in HPC through projects like DEISA/PRACE as well as in HTC through projects under the umbrella of EGEE/EGI.**

**Current work in the field is paving the way towards a future seamless infrastructure which will allow research communities worldwide to exploit both HPC and HTC facilities with minimum overhead.**

**This session highlights the current state of HPC/HTC Inter-operation.**

**Focus is placed on the definition of standards to enable inter-operation and existing projects which currently utilize both HPC and HTC facilities.**

**- Conveners: Kennedy, John; Lechner, Michaela**

time	[id] title	presenter
11:00	[126] Introduction	
11:10	[127] Standards in HPC/HTC Inter-Operation	
11:30	[128] JSAGA	
11:50	[129] SAGA	

**Regional Dissemination - Keurzaal (11:00-12:30)**

**As the eInfrastructure landscape changes across Europe, so do the routes for communicating the successes of your work. This session aims to bring together all the people tasked with dissemination who are attending the conference. It is not limited to these and anyone with an interest in being involved or understanding the people and frameworks in place for outreach are welcome to attend.**

**- Conveners: O'Neil, Neasan**

time	[id] title	presenter
11:00	[154] EGI and Dissemination	GATER, Catherine
11:10	[155] eScienceTalk	
11:20	[156] Discussion/Introductions	Mr. ONEILL, Neasan

**Regional Initiatives - Graanbeurszaal (11:00-12:30)**

**Ognjen Prnjat - HP-SEE**

**Federico Ruggieri - CHAIN**

**Alberto Masoni - EUIndiaGrid2**

**Bernard Marechal - GISELA**

**- Conveners: Masoni, Alberto; Prnjat, Ognjen; Marechal, Bernard; Ruggieri, Federico**

time	[id] title	presenter
11:00	[105] Africa ROC and SAGRID	BECKER, Bruce
11:15	[106] Asia-Pacific JRU	LIN, Simon

11:30	[107] The CHAIN Project	RUGGIERI, Federico
11:45	[108] The EPIKH Project	BARBERA, Roberto
12:00	[109] EU-IndiaGrid2 Project	MASONI, Alberto
12:15	[111] EUMEDGRID-Support Project	REALE, Mario

**gSLM Project Meeting (Closed) - Derkindern (11:00-13:30)**

- Conveners: Prof. Kranzmueller, Dieter

**Lunch - Grote zaal (12:30-14:00)**

**ECEE - Yakult Room (14:00-15:45)**

A number of European projects are collaborating to better understand the value cloud computing could bring to today's researchers. To succeed with this there is a need to learn, by testing, what is possible to do today, and the implications these services has on economy, security, vendor lock-in, and last but not least the usability and quality.

To succeed with this objective, international collaboration is key, and in this session six collaborating projects share their findings and roadmaps.

Topics in this session covers ongoing studies of the use of open source softwares as well as commercial products, and their combinations. One common goal is to identify the value in cloud computing to HPC users; end-user interfaces provided by cloud technologies and identify possible added value to today's grid and standard HPC interfaces. Concretely this amounts to e.g.

- Investigate if a machine provisioning interface like that of Amazon's EC2 coupled with a library of scientific appliances is of value to European academic research communities.
- Investigate how to build a cloud storage infrastructure that supports the use of clouds for scientific applications.
- Identify the economic value of cloud computing
- Understand the economic implications of moving parts of HPC onto cloud infrastructures. More notably by:
  - \* Estimate the fraction of current HPC compute jobs that could realistically be executed on clouds
  - \* Estimate the cost of building and operating a cloud facility of the same capacity as the above percentage of the total current

**resources**

- \* Estimate possible cost reductions achievable by scaling out

**peak loads to commercial clouds**

- \* Compare cost of a private cloud facility with a commercial cloud
- \* Estimate savings in scenarios with
- \* Commercial clouds when aiming at direct peering (data transfer cost)
- \* Allocating their spare capacity at a reduced price

During the OGF28 a 2 hr 25 min ECEE workshop was conducted, with a common guiding document, and collaboration web site, was produced (web: [www.scientific-cloud.org](http://www.scientific-cloud.org)).

This guiding document will be updated during the workshop. Outline of current document:

**1. Roadmaps**

- a. Sharing roadmaps
- b. Avoiding ‘built in’ interoperability problems later on

**2. Use cases**

- a. Gap analysis
- b. “Market analysis” – today’s users, tomorrow’s
- c. Guidelines – best practices, quick start one-pager + checklist (cloud, grid, hpc, something else?), rules of thumb

**3. Offering**

- a. Compared to existing (and evolving) public services – what do/can we offer?
- b. Service levels – how to handle, in practice
- c. Some mentioned last mile, customer support (application specific needs), platforms for specific users (like rendering example from BalticCloud)

**4. Focus areas**

- a. Security – access and ID mgmt in line with local requirements
- b. Metering (what), Accounting, Billing, Business models
- c. Federation of clouds (cf grids)
- d. Network
- e. Licenses
- f. Scheduling, load balancing (resource sharing, application correlation)
- g. Technical solutions studied –list of tested solutions, their pros and cons

**5. Trends of small/medium DCIs and cloud computing**

**a. Will they change their mode of operation?**

**6. GAP analysis**

**a. Identified overlaps**

**i. E.g. compare project's current deliverables**

**b. Identified gaps**

**i. What projects did not include into the plan**

**ii. What is posing the main problem for the projects. E.g. lack of user communities, grid legacy**

**c. Identify already existing policies, best practices and recommendations, and technology from the grid community – to be used as is, or modified**

- Conveners: Edlund, Aake

time	[id] title	presenter
14:00	[131] Overview presentation	
14:15	[132] ECEE member projects presentations	

**EGI Council (Closed) - Mendes da Costa (14:00-15:30)**

- Conveners: Dr. Öster, Per

**European Middleware Initiative - InReach - Derkindern (14:00-15:30)**

- Conveners: Cresti, Diana

**Operational Tools Roadmap - Verwey (14:00-15:30)**

A session dedicated to the presentation of the status and future plans for the operational tools developed within the EGI project. Focus will be on the Operation Portal, the GGUS Helpdesk, the GOCDB, the Nagios/MyEGI Monitoring Framework and the Metrics Portal. All the accounting related tools developments will be presented at the accounting workshop on Wednesday.

- Conveners: Cesini, Daniele

time	[id] title	presenter
14:00	[167] Introduction	CESINI, Daniele
14:15	[168] Operation Portal	LORPHELIN, Cyril
14:30	[170] GOCDB	Mr. MATHIEU, Gilles
14:45	[171] GGUS Helpdesk	Dr. ANTONI, Torsten
15:00	[172] NAGIOS/MyEGI	HORAT, David
15:15	[174] Metrics Portal	Dr. LOPEZ CACHEIRO, Javier

**Regional Initiatives - Graanbeurszaal (14:00-15:30)**

Ognjen Prnjat - HP-SEE

Federico Ruggieri - CHAIN

**Alberto Masoni - EUIndiaGrid2**

**Bernard Marechal - GISELA**

- Conveners: Masoni, Alberto; Prnjat, Ognjen; Marechal, Bernard; Ruggieri, Federico

time	[id] title	presenter
14:00	[113] GISELA Project	MARECHAL, Bernard
14:15	[116] HP-SEE Project	PRNJAT, Ognjen
14:30	[118] General Discussion	

**Security Policy Group - Keurzaal (14:00-15:30)**

- Conveners: Kelsey, David

**Services for the EGI Heavy User Communities - Berlage (14:00-15:30)**

This session will include status updates from all technical tasks and sub-tasks in SA3, more detail of which can be found here. In summary, this activity provides continued support for activities previously supported by EGEE while they transition to a sustainable support model within their own community or within the production infrastructure by:

- Supporting the tools, services and capabilities required by different heavy user communities (HUCs)
- Identifying the tools, services and capabilities currently used by the HUCs that can benefit all user communities and to promote their adoption
- Migrating the tools, services and capabilities that could benefit all user communities into a sustainable support model as part of the core EGI infrastructure
- Establishing a sustainable support model for the tools, services and capabilities that will remain relevant to single HUCs

Who should attend this session? Anyone seeking an update on these activities, including current and prospective users of these services.

- Conveners: Shiers, Jamie

time	[id] title	presenter
14:00	[2] Services for High Energy Physics	GIRONE, Maria
14:30	[3] Services for Life Sciences	Mr. MONTAGNAT, Johan
14:50	[4] Services for Earth Sciences	SCHWICHTENBERG, Horst
15:10	[5] Services for Astronomy and Astrophysics	VUERLI, Claudio

**Coffee / Tea - Grote zaal (15:30-16:00)**

**ECEE - Yakult Room (16:00-17:30)**

A number of European projects are collaborating to better understand the value cloud computing could bring to today's researchers. To succeed with this there is a need to learn, by testing, what is possible to do today, and the implications these services has on economy, security, vendor lock-in, and last but not least the usability and quality.

To succeed with this objective, international collaboration is key, and in this session six collaborating projects share their findings

**and roadmaps.**

**Topics in this session covers ongoing studies of the use of open source softwares as well as commercial products, and their combinations. One common goal is to identify the value in cloud computing to HPC users; end-user interfaces provided by cloud technologies and identify possible added value to today's grid and standard HPC interfaces. Concretely this amounts to e.g.**

- Investigate if a machine provisioning interface like that of Amazon's EC2 coupled with a library of scientific appliances is of value to European academic research communities.**
- Investigate how to build a cloud storage infrastructure that supports the use of clouds for scientific applications.**
- Identify the economic value of cloud computing**
- Understand the economic implications of moving parts of HPC onto cloud infrastructures. More notably by:**
  - \* Estimate the fraction of current HPC compute jobs that could realistically be executed on clouds**
  - \* Estimate the cost of building and operating a cloud facility of the same capacity as the above percentage of the total current resources**
  - \* Estimate possible cost reductions achievable by scaling out peak loads to commercial clouds**
  - \* Compare cost of a private cloud facility with a commercial cloud**
  - \* Estimate savings in scenarios with**
    - \* Commercial clouds when aiming at direct peering (data transfer cost)**
    - \* Allocating their spare capacity at a reduced price**

**During the OGF28 a 2 hr 25 min ECEE workshop was conducted, with a common guiding document, and collaboration web site, was produced (web: [www.scientific-cloud.org](http://www.scientific-cloud.org)).**

**This guiding document will be updated during the workshop. Outline of current document:**

## **1. Roadmaps**

### **a. Sharing roadmaps**

### **b. Avoiding 'built in' interoperability problems later on**

## **2. Use cases**

### **a. Gap analysis**

- b. "Market analysis" – today's users, tomorrow's
- c. Guidelines – best practices, quick start one-pager + checklist (cloud, grid, hpc, something else?), rules of thumb

**3. Offering**

- a. Compared to existing (and evolving) public services – what do/can we offer?
- b. Service levels – how to handle, in practice
- c. Some mentioned last mile, customer support (application specific needs), platforms for specific users (like rendering example from BalticCloud)

**4. Focus areas**

- a. Security – access and ID mgmt in line with local requirements
- b. Metering (what), Accounting, Billing, Business models
- c. Federation of clouds (cf grids)
- d. Network
- e. Licenses
- f. Scheduling, load balancing (resource sharing, application correlation)
- g. Technical solutions studied – list of tested solutions, their pros and cons

**5. Trends of small/medium DCIs and cloud computing**

- a. Will they change their mode of operation?

**6. GAP analysis**

- a. Identified overlaps
  - i. E.g. compare project's current deliverables
- b. Identified gaps
  - i. What projects did not include into the plan
  - ii. What is posing the main problem for the projects. E.g. lack of user communities, grid legacy
- c. Identify already existing policies, best practices and recommendations, and technology from the grid community – to be used as is, or modified

- Conveners: Edlund, Aake

time	[id] title	presenter
16:00	[134] Network architectures and converged networks fabrics for cloud computing	
16:45	[135] Discussion and update of common roadmap	

**EGI Council (Closed) - Mendes da Costa (16:00-17:30)**

- Conveners: Dr. Öster, Per

**EGI Helpdesk - Support, Process and Implementation - Verwey (16:00-17:30)**

**- Conveners: Trompert, Ron; Dr. Antoni, Torsten**

time	[id] title	presenter
16:00	[161] GGUS - EGI's central helpdesk	Dr. ANTONI, Torsten
16:15	[162] TPM - EGI's first line support	DRES, Helmut
16:30	[163] COD - EGI's operator on duty	TROMPERT, Ron
16:45	[164] xGUS - a easy way to set up an NGI helpdesk	REISSER, Sabine
17:00	[165] An example of an NGI support infrastructure	

**Initiative for Globus in Europe - Graanbeurszaal (16:00-17:30)**

**- Conveners: Mr. Papaspyrou, Alexander; Dr. Frank, Anton C.**

time	[id] title	presenter
16:00	[166] Introduction to IGE	Dr. HELLER, Helmut
16:40	[169] Presentation of globus.org service	Mr. ZRENNER, Florian
17:00	[173] Discussing the relations between EGI and IGE	Dr. FRANK, Anton

**Security Forum - Open Discussions - Keurzaal (16:00-17:30)**

**- Conveners: Ma, Mingchao**

time	[id] title	presenter
16:00	[38] EGI/EMI security groups - Introduction	
16:45	[39] Open Discussion	

**Services for the EGI Heavy User Communities - Berlage (16:00-17:40)**

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- Supporting the tools, services and capabilities required by different heavy user communities (HUCs)
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- Establishing a sustainable support model for the tools, services and capabilities that will remain relevant to single HUCs

Who should attend this session? Anyone seeking an update on these activities, including current and prospective users of these services.

**- Conveners: Shiers, Jamie**

time	[id] title	presenter
16:00	[6] Shared Services and Tools - Dashboards	ANDREEVA, julia KARAVAKIS, Edward
16:20	[7] Shared Services and Tools - Applications (Ganga, Diane)	VAN DER STER, Dan
16:40	[9] Shared Services and Tools - Services: HYDRA and GRIC	Mr. MONTAGNAT, Johan
17:00	[8] Shared Services and Tools - Workflows and Schedulers	CASTEJON MAGANA, Francisco
17:20	[10] Shared Services and Tools - MPI	WALSH, John

**Conference Dinner - Yakult Room (19:00-22:00)**

**- Conveners: Newhouse, Steven**

## Friday 17 September 2010

### **EGI-InSPIRE PMB (Closed) - Rode Kamer (08:00-10:30)**

- Conveners: Newhouse, Steven

### **ESFRI Pilot Project Coordinators - Archief Damrakzijde (09:00-17:30)**

### **NGI User Support Teams - Yakult Room (09:00-10:30)**

The stated goal of EGI is to provide significant added value for existing and new user communities. The main providers of User Support service in EGI are National Grid Initiatives (NGIs), under the coordination of a central body, the EGI.eu organisation. While the primary responsibility of the User Support Teams of NGIs is to serve and support the development of users inside their own countries, the EGI.eu UCST assures that these national efforts fit together at the European level and satisfy multi-national, large scientific collaborations.

The session includes an overview presentation on the User Support services of EGI, followed by presentations from different NGIs that actively search for and serve user communities. Services provided by these NGIs include:

consultancy

training

porting scientific applications

providing access to gridified scientific applications

assisting the setup and monitoring of Virtual Organisations (VO)

development of new grid software services (infrastructure, portal, toolkit, etc.)

collecting feedbacks and requirements from users

documentation

helpdesk

- Conveners: Sipos, Gergely

### **Security Training - Derkindern (09:00-10:30)**

- Conveners: Ma, Mingchao

### **Software Rollout to the Production Infrastructure - Graanbeurszaal (09:00-10:30)**

**Objectives: Bring together the SW providers and early adopter sites to provide information on the current SW rollout process, and what is planned for the future. Get feedback and comments from all involved parties.**

**- Conveners: David, Mario; Lechner, Michaela**

time	[id] title	presenter
09:00	[123] Software rollout procedures	
09:30	[124] SW providers perspective, feedback	
10:10	[125] Early Adopters perspective	

**Supporting EGI user communities with Desktop Grid resources - Keurzaal (09:00-10:30)**

The EDGI (European Desktop Grid Initiative) project develops middleware that consolidates the results achieved in EDGeS (Enabling Desktop Grids for e-Science) concerning the extension of Service Grids with Desktop Grids in order to support EGI and NGI user communities that are heavy users of DCIs and require extremely large number of CPUs and cores. EDGI goes beyond existing DCIs that are typically cluster Grids and supercomputer Grids, and extends them with public and institutional Desktop Grids and Clouds. EDGI integrates software components of ARC, gLite, Unicore, BOINC, XtremWeb-HEP, 3G Bridge, and Cloud middleware (such as OpenNebula and Eucalyptus) into SG->DG->Cloud platforms for service provision.

The aim of the session is to introduce the current state and the roadmap of the EDGI infrastructure to EGI user communities already utilizing this infrastructure, and to attract new EGI user communities as potential users for the EDGI infrastructure. Case studies from EGI and external user communities supported by the DEGISCO (Desktop Grids for International Scientific Collaboration) project and utilising the EDGI/EDGeS infrastructure will be presented, followed by an open discussion.

**Who should attend this session?**

We are aiming for all EGI/NGI user communities who are willing to explore how Desktop Grid resources are able to extend the EGI/NGI resources they currently have access to.

**- Conveners: Kiss, Tamas**

**Coffee / Tea - Grote zaal (10:30-11:00)**

**Closing Keynote - Yakult Room (11:00-12:00)**

**Lunch - Grote zaal (12:00-13:00)**

**Grid Oversight Training - Verwey (13:00-14:30)**

**This will be a general training session on the Operations Dashboard Portal. There will be an initial 15min overview presentation, and then a hands on session, with experts to provide help. Questions are encouraged.**

**New ROD Operations personnel are particularly welcome.**

**NOTE: Special Requirements: Please read the old EGEE documentation at <https://documents.egi.eu/document/15>**

**Laptop with network connectivity**

**Have a valid certificate**

**Regional Staff role for your NGI in the GOCDB - you must be registered to apply for this role**

**GGUS registration (as support staff)**

**Registered in the dteam OPS VO**

**- Conveners: Trompert, Ron; Hansper, Vera**

### **Security Training - Derkindern (13:00-14:30)**

**- Conveners: Ma, Mingchao**

### **Using Desktop Grids in an eScience environment - Mendes da Costa (13:00-14:30)**

**Objective**

**Goal of the tutorial is to provide an introduction into Desktop Grid computing, programming for Desktop Grids, connecting Desktop Grids to EGI type of infrastructures.**

**Desktop Grids consist of otherwise unused computing resources, that are collected and made available for scientific applications. A Desktop Grid can, for instance, consist of office machines in a University or computers in lecture rooms. These are called local Desktop Grids.**

**Desktop Grids can also consist of unused computing time donated by citizens. These are called Volunteer Desktop Grids.**

**Scientific programmes need to be adapted or ported onto the Desktop Grid.**

**Desktop Grids can be connected to become part of Europe's main Grid infrastructure (EGI) by use of EDGeS Bridge technology.**

**Who should attend?**

**Anyone who considers setting up a local or Volunteer Desktop Grid.**

**Scientists and application developers looking for ways to use more computing power.**

**NGI/EGI Grid operators who want to extend their services with more computational power and are considering Desktop Grids.**

## Organisation

The tutorial is organised by the International Desktop Grid Federation, with support from the EDGI project and Gridforum.nl. It is facilitated by the EGI technical Forum. Local organisation: AlmereGrid.

### Preliminary programme:

Introduction into Desktop Grid computing  
 Hands on with setting up and programming for Desktop Grids  
 Extending EGI type of Grids with Desktop Grids.

- Conveners: Kiss, Tamas

### **Coffee / Tea - Grote zaal (14:30-15:00)**

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New ROD Operations personnel are particularly welcome.

NOTE: Special Requirements: Please read the old EGEE documentation at <https://documents.egi.eu/document/15>

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- Conveners: Trompert, Ron; Hansper, Vera

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**- Conveners: Kiss, Tamas**