



Enabling Grids for E-scienceE

NA4 status and issues

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- **The main objectives of the HEP activity are to encourage and help the HEP community to migrate their applications to the LCG/EGEE infrastructure, and to provide ongoing feedback to the development activities to ensure that the needs of the HEP community are met. This latter activity will include the processes of requirements gathering and design of the grid services. In addition there will be work on the definition of a common generic application interface for application-independent grid functions, this being accomplished together with the other application groups. Conversely it is expected that the Architecture and middleware teams of EGEE will take advantage of the substantial experience accumulated by the HEP community in the initial definition of the EGEE architecture. The LHC Grid blueprint architecture (ARDA), for instance, will be used by the architecture team as an important input for their work.**

- **The objectives of the BioMed activity are to identify a portfolio of applications in the area of Biomedical sciences, to select a subset for an early deployment on the EGEE infrastructure, to contribute to the definition of a common application interface with the other research fields, to encourage and help the Biomedical community to migrate applications to the EGEE infrastructure and to provide early feedback to the EGEE development activities to ensure EGEE progress meets the needs of the Biomedical community.**

- **The objectives of this activity are to identify a portfolio of generic applications in the area of science and industry to be deployed on the EGEE infrastructure, to use and contribute to the definition of a common application interface with other research fields, to encourage and help scientific and industrial communities to easily migrate their applications to the EGEE infrastructure using high level user interfaces such as grid portals, and to provide feedback to the EGEE development activities to ensure EGEE progress meets the needs of a community as vast and diverse as possible.**

Tasks	Month start	Month end	Resources allocated
4.1 Consolidation of the existing requirements	1	1	4
4.2 Basic foundations of common application interface and associated roadmap (DNA4.1)	1	3	21
4.3 Definition of the strategy for application integration and deployment (DNA4.2)	1	6	28
4.4 Migration of first applications to EGEE infrastructure (DNA4.3.1)	1	12	231
4.5 Deployment of first generic applications (DNA4.3.1)	1	12	116
4.6 NA4 management	1	12	21
4.7 Test suite	1	12	39
4.8 Industry forum	1	12	14

- **Demos**
 - HEP
 - Biomed
 - Generic
- **Joint sessions**
 - NA4/SA1
 - NA4/JRA1
- **Other meetings: EGAAP, PTF, ...**
- **Participation**
 - HEP
 - Blomed
 - Generic
 - Test team
 - Industry forum



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Relationship to internal activities

- **Contact point: Frank Harris (Yannick Legre)**
- **New group now actively meeting every month (credit: Frank & Yannick)**
 - Next meeting tomorrow
- **More and more information available from SA1 for NA4**
 - Example: <http://cic.in2p3.fr>
- **The VO biomed is playing its role of guinea pig, but we need to be careful to have a strong involvement of VO managers**
- **Is there a policy for resource allocation to non HEP applications ?**
 - Discussed at PMB on October 11th

- **Contact point: Geneviève Romier**
- **Status**
 - Request to have documented use cases
 - GATE description (credit: L. Maigne) on EDMS
<https://edms.cern.ch/file/503738/1/EGEE-GATE-UseCases.doc>
- **Comments/Issues**

- **ARDA is doing it very well for HEP**
- **Much less clear picture for non-HEP groups**
 - What is the relationship between the biomed task force and JRA1 ?
 - What is the channel for generic activities to test/use/feedback experience to JRA1 ?
- **How to prepare transition from LCG-2 to GLite for non-HEP applications ?**
- **Test team: to be discussed this afternoon**
- **Issues ?**

- **Contact point : Marcel Soberman (Geneviève Romier)**
- **Very good interactions with JRA2 through Marcel and Genevieve**
- **NA4 specific quality metrics to be collected by Helene Ruelle**
 - Request for information sent to VO managers
- **Issues**

- **Contact point: Christophe Blanchet**
- **Issues ?**

- **Contact point: Vincent Breton – Frank Harris**
- **Request from technical coordination to deploy at a large scale non HEP applications**
 - Large scale = lots of users + production of publishable results
- **This request is difficult to satisfy**
 - No NA4 resources for running large scale deployment
 - Even LHC data challenges do not fulfill these requirements:
 - Data challenges are production of simulated events, and therefore not publishable results per se
 - Data challenges are launched by a few experts
- **If we invest NA4 resources for large scale deployment of non HEP applications, we may not achieve the goals described in the TA**

- **Described in the technical annex**
 - Identification of current applications portfolios;
 - Selection of a base applications portfolio for early use on the EGEE infrastructure;
 - The definition of a common application interface via generic use cases and requirements;
 - Support to the development community to migrate applications to the EGEE infrastructure;
 - Early feedback to the EGEE development activities to ensure EGEE developments meet the immediate needs of established user communities;
 - Evaluation of grid impact on application performances.

- **Contact: ? (Yannick Legré, Roberto Barbera)**
- **Very little interactions so far**
- **Healthgrid 05, first scientific non HEP conference where NA2 gets involved**
- **Request for an article in the project newsletter on deployment of biomed applications**
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- **Contact point: Roberto Barbera**
- **Lots of interaction**
 - GILDA
 - Genius
- **First tutorial for biomed users community October 6-7 in Madrid**
- **Issues ?**



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Relationship to external projects

- **Collaboration with european/national projects**
 - Different kinds of collaborations:
 - End users (GRACE, DILIGENT,...)
 - Virtual labs (Mygrid)
 - Other grid infrastructures (DEISA, BIRN, ...)
 - What NA4 can offer:
 - Process to handle requirements(database)
 - Access to Glite through technical teams
 - *Mailing list*
 - *Creation of a generic technical team ?*
- **Integration of internal applications**
 - Request from project management to register internal applications
 - Issue: how to encourage them to get under NA4 umbrella ?

- **Use of GATE for radiotherapy treatment planning foreseen as a joint EGEE-DEISA application**
 - GATE deployed on CINES supercomputers (EGEE)
 - GATE deployment on IDRIS (DEISA) foreseen soon

- **TERAgrid**
 - No contact at application level
- **BIRN: CNB Madrid is a BIRN and an EGEE node**
- **Other contacts**
 - Argonne Life Science project (M. Spada – R. Stevens)
 - San Diego Supercomputing Center (F. Bermann)
- **Forthcoming workshop to discuss EU-US collaboration on healthgrids - biogrids (January 2005)**

- **Life sciences Research Group**
 - Co-leadership of a subgroup “Healthgrids”
- ...

- **December 2004 (-> March 2005)**
 - eHealth : submission of an Healthgrid IP (V. Hernandez, UPV)
 - Use of EGEE as an infrastructure
 - Research Infrastructures (unit F3):
 - Extension of EGEE
 - *China*
 - *South America*
 - *Extra funding for virtuous cycle activities*
- **May 2005 (-> September 2005): preparation of EGEE 2**
 - Task force to be set up by project management
 - Enlargement of user communities