



Enabling Grids for E-science

NA4: Applications

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www.eu-egee.org



- **Goals**
- **Tasks**
- **Deliverables & Milestones**
- **Management Structure**
- **Communication**
- **Procedures**
- **To do (urgently) ...**

- **NA4 Goals:**
 - Identify new applications.
 - Bring them onto the grid.
 - Support running applications.
- **NA4 Participants**
 - 42 partners in 24 countries
 - 1909 pm \approx 80 FTEs \approx 150+ people
 - \approx 60 Virtual Organizations
- **Challenge: Provide high-quality, coordinated support to applications from large, widely-dispersed activity.**

- **The NA4 activity in EGEE-II will only be a success if the participants actually participate!**
 - Partners must respond quickly to requests for information.
 - Administrative requests (names of participants...)
 - Quarterly reports
 - Deliverables
 - NA4 people must contribute to all aspects of activity
 - Application support
 - Cross-activity groups
 - Deliverable production and review

- **TNA4.1: Consulting; Porting of Applications**
 - Identification of new applications
 - Advise on how to use grid services
 - Help porting applications to the grid
- **TNA4.2: Evolution of Pilot Applications**
 - High Energy Physics (HEP) and Biomedical applications
 - Drive middleware development
- **TNA4.3: Validation of EGEE Infrastructure**
 - Verification that grid works for particular applications
 - Help running those applications on the grid
- **TNA4.4: Grid Laboratory (GILDA)**
 - Training/porting infrastructure for new users, VOs
- **TNA4.5: Management**

- **Verify that the following are correct:**
 - Partner contact information
 - <https://edms.cern.ch/document/720006/1>
 - Work Breakdown Structure
 - <https://edms.cern.ch/document/720005/1>
 - List of participants by institute
 - <https://edms.cern.ch/document/720008/1>
- **Probably can't read those now. Try the link:**
 - <http://cern.ch/loomis/>

- **DNA4.1 (PM3)**
 - Application Deployment Plan
- **DNA4.2 (PM11)**
 - Summary and Evaluation of Application Usage of EGEE-II Services
 - Update of Application Deployment Plan
- **DNA4.3 (PM22)**
 - Updated Summary and Evaluation ...

- **MNA4.1 (PM5)**
 - High Energy Physics
 - Earth Science

- **MNA4.2 (PM10)**
 - Biomedical
 - Astrophysics

- **MNA4.5 (PM18)**
 - Fusion
 - Computational Chemistry

- **MNA4.3.1-2 (PM7, 20)**
 - User Survey
 - Critical, direct feedback from EGEE users
 - Very poor response to date for EGEE-I
 - VO managers, NA4 participants should follow-up on this
 - Florence Jacq currently coordinating effort
 - <http://egee-na4.ct.infn.it/egee-survey-form/>
- **MNA4.4.1-2 (PM12, 23)**
 - User Forum
 - The NA4 “All-Hands Meeting”
 - Opportunity to present your work, see others work, better collaborate.

- **The NA4 Steering Committee will manage the activity.**
- **Representation by scientific discipline.**

- **Activity Manager & Deputy**
 - Charles (Cal) Loomis
 - Deputy (TBD)
- **High Energy Physics**
 - Massimo Lamanna
 - Frank Harris (moving to NA1)
- **Biomedical Applications**
 - Vincent Breton (Drug Discovery)
 - Johan Montagnat (Medical Imaging)
 - Christophe Blanchet (Bioinformatics)

- **Fusion**
 - Francisco Castejon
- **Earth Sciences**
 - TBD
- **Astrophysics**
 - TBD
- **Computation Chemistry**
 - TBD
- **Grid Laboratory (GILDA)**
 - Roberto Barbera

- **Technical Coordination Group (TCG, NA1)**
 - Requirements for new functionality and services
 - Priorities for implementing/integrating those services
- **Operations Advisory Group (OAG, co-chair SA1/NA4)**
 - Link between applications and operations
 - Drives VO registration process and MoU development
 - Negotiation of resources
- **User Information Group (UIG, NA3)**
 - Collect user-level documentation
 - Ensure that documentation can be easily found
- **Middleware Security Group (MWSG, JRA1)**
 - Security policies and software

- **Success of the activity hinges on effective communication between all stakeholders.**
- **Between NA4 participants**
 - Management
 - Application support teams
- **Existing users and Virtual Organizations**
 - VO Managers Group (chaired by NA4)
 - User Forums
 - Mailing lists and web portal
- **Potential users and Virtual Organizations**
 - Web portal
 - User Forums
 - Participation in scientific conferences

- **Size of activity mandates that the procedures be as lightweight and automated as possible.**
- **Application support:**
 - Clear contact points for support.
 - Integrated into standard support infrastructure (GGUS).
 - Availability of good documentation.
- **Integration of new Virtual Organizations**
 - Registered VO: lightweight procedure to get new VO onto the infrastructure as quickly as possible
 - Selected VO: heavier procedure with MoU which described dedicated manpower and support

- **Large-scale usage of infrastructure:**
 - Avian flu data challenge (drug discovery)
 - Service challenge 4 (HEP, LHC)
 - Wisdom-II (drug discovery)
- **EGEE-I Review (May 23-24)**
 - GANGA demonstration (HEP)
 - Medical Data Management (MDM) demonstration (biomed)
- **Biomed Kick-off Meeting**
 - Lyon, France
 - April 28, 2006

- **Complete management...**
- **Web portal**
 - Determine needs and review current sites
 - Deploy new portal ASAP
- **VO Census**
 - Register all existing VOs
 - Identify new applications and VOs
- **Organization**
 - Integrate application support
 - Start VO Managers Group (chair from NA4)
 - Name NA4 participants for TCG, OAG, UIG, MWSG.
- **NA4 partners and participants must be responsive and participate fully in all NA4 activities.**