



eIRG White paper overview November, 24th 2004

Fotis Karayannis, Editor GRNET - Greek Research & Technology Network

fkara@grnet.gr, http://www.grnet.gr

EGEE 3rd parties Advanced Induction Course Athens 20-21/01/05



- eIRG mandate
- Overview (Den Haag version)
- White paper work organization
- White paper structure
- Chapter outlines
- Endorsements





ΕΘΝΙΚΟ ΔΙΚΤΥΟ ΕΡΕΥΝΑΣ & ΤΕΧΝΟΛΟΓΙΑΣ

eIRG mandate and structure

- eIRG=eInfrastructure Reflection Group
- Mandate:

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The main objective of the e-IRG is to support on the political, advisory, and monitoring level the creation of a policy and administrative framework for the easy and cost-effective shared use of electronic resources in Europe (focusing on Grid-computing, data storage, and networking resources) across technological, administrative, and national domains

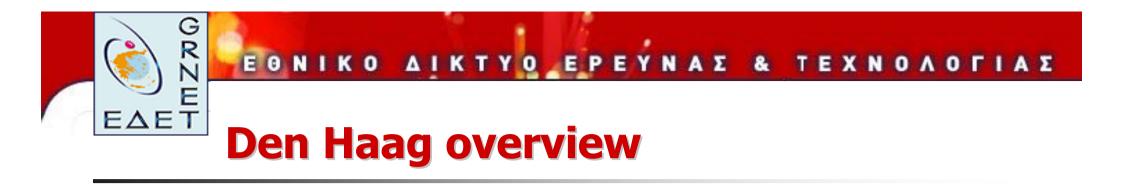
www.einfrastructures.org, www.e-irg.org

- Structure
 - Consists of appointed Member, Accession and Associated States Representatives plus officials of the European Commission;
 - initially co-ordinated by rotating EU Presidencies with the scheme of a troika of past, current and future presidencies
 - Supported by a Technical Support Group, via resources from EU flagship projects (EGEE, DEISA, GN2) and possibly other initiatives.

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- eIRG will be probably "upgraded" and "integrated" under ESFRI
 - ESFRI-European Strategy Forum for Research Infrastructures
- New white paper draft main areas covered:
 - http://agenda.cern.ch/askArchive.php?base=agenda&categ=a045186&id=a045186/document
 - Authorization
 - Accounting
 - Acceptable Usage policies
 - User support
 - General purpose vs. disciplinary Grids
 - Feedback received during the eIRG workshop last week
 - http://agenda.cern.ch/fullAgenda.php?ida=a045186







White paper work organization

- More scalable coordinated approach
 - Autonomous section editors: Quick iteration
 - Funded / unfunded contributors secured by section editors
 - Spontaneous external contacts
 - eIRG virtual office supported by EGEE NA5
 - Hannelore Hammerle: Integrator
 - Matti Heikkurinen: Co-editor
 - Contributors contact list
- Short production time
- Easier to maintain momentum and integrated feedback from the workshop

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New Table of Contents

- 1. Executive summary
- 2. The role of the eIRG in shaping the European Research Area
- 3. Areas of policy development:
- 4. Authentication
- 5. Authorization
- 6. Accounting

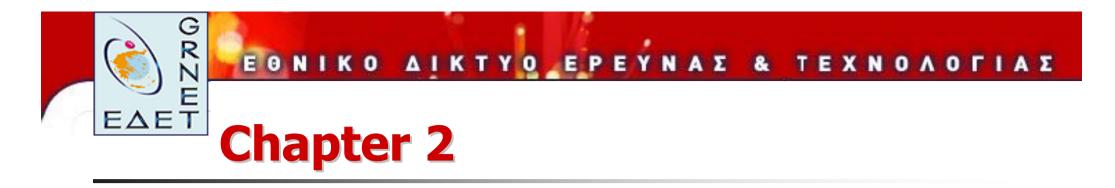
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- 7. Usage policies
- 8. User Support
- 9. International related efforts
- 10. Policy roadmap
- Appendix A: Background and history of the white papers
- Appendix B: List of endorsements
- Appendix C: List of eIRG member (as of Dublin meeting)
- Appendix D: Abbreviations used in the White paper







- The role of the eIRG in shaping the ERA
 - Research e-Infrastructures (Originated in Rome updated)
 - The e-IRG mandate (unchanged)
 - Vision for future initiatives
 - e-Infrastructure: grid networking on demand, computing-storage, "datasets – databases", other e-devices...
 - General purpose vs. disciplinary Grids:
 - Long term vision is a general-purpose grid complemented with special collaborative grids – Not duplicate efforts but also not prevent bottom-up development
 - FP7 proposed lines of actions and new eIRG role







- Areas of policy development
 - Introductory chapter for the rest of the doc







- Authentication (AuthN)
 - Covered in Dublin
 - Still monitored in relation with other areas (Authorization)



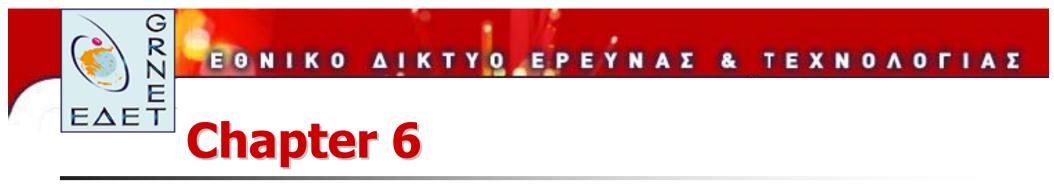




- Authorization (AuthZ) D. Groep D. Lopez
 - State of the art (GEANT, Shibboleth, EGEE, PERMIS, etc.) reviewed:
 - Diversity of non-interoperable solutions
 - Towards a policy authority:
 - Convergence and interoperability essential,
 - in the form of a "clearing house" adapting solutions
 - Clearing house similar to the AuthN schema (EUGridPMA) forcing RCs and admins to comply with interoperability criteria and configure policy decision/enforcement points accordingly
 - Cooperation and support is essential to establish an open trans-national trust hub for interoperation of AA (Cotswolds Group idea)







- Accounting: Kimmo Koski
 - Diversity of usage frameworks
 - Research eScience, but more importantly eGovernment, eBusiness
 - "Common language-open solutions essential" i.e. interoperable definitions and protocols enabling negotiations
 - This would derive from current (and future) best practices
 - State of the art:
 - Telecoms ITU: Learn from them?
 - Supercomputing: Still for local-national purposes only
 - Grid: DataGrid Accounting System (DGAS), SweGrid-SGAS, still prototypes
 - Path to convergence:
 - Initially work inside closed consortium-type models (DEISA)
 - Work towards grid market pilot to simulate open market resource trading
 - Clarify legislation issues at EU-level concerning resource exchange

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- Usage policies (for research): Dave Kelsey
 - Limited experience on the legal and regulatory issues of the e-Infrastructure
 - Run on top of NRENs with well established AUPs
 - Grid usage already subject to pre-existing AUPs
 - EGEE/LCG/OSG (Open Science Grid project in the US) working on a draft AUP (in 1Q 2005)
 - A draft AUP is provided for users registering in a VO: "Accept AUP button"
 - While VO has previous agreements with Resource Center Institutes
 - Covering:
 - Eligible User communities (research oriented)
 - Acceptable and unacceptable use
 - Lightweight, High-level, keep it simple

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- Grid-related user support: J. Templon, T. Antoni
 - "Normal" (not expert) users just starting to appear
 - User support requires good and well-documented software, training and problem reporting—, resolution-structures
 - State of the art:
 - Supercomputing: local handling simple
 - Networking: Hierarchical structures (NOCs- Helpdesk) in 3 tiers (sitelocal, NREN, GEANT) interacting – well established with escalation procedures etc.
 - Grids: LCG (centralized) and EGEE (complex-federated) examples (presented by Torsten) –
 - Simple collaborative Grids can be satisfied with relaxed simpler solutions (local-remote pair of user support applications)







- Related international efforts: M. Heikkurinen
 - Focused on NON-Grid activities based on a set of criteria
 - Inventory of Grid activities beyond the scope of this document
 - Recommendations:
 - Collaboration and possible agreements between funding agencies worldwide
 - Cooperation between CA-groups around the globe
 - Link white paper with Grid inventory activities







- Policy Roadmap:
 - Mostly covered by chapter slides





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- Feedback received during the workshop
 - Section editors, workshop chairs, all, invited to provide further inputs / updates
- Recommendations to be added per chapter
 - for those that do not exist
- Final document in December
- Because of eIRG support office easier to maintain momentum for Luxemburg
- Inventory of endorsement statements as an annex







Draft Grid AUP: (page 6)

The e-IRG notes the timely operation of an EGEE/ LCG / OSG group working on a common Acceptable Usage Policy for multidisciplinary Grid infrastructures and it expresses its satisfaction and support for the current draft AUP proposed in this white paper and would like to encourage the group to consolidate it asap. It is felt that such an effort would greatly promote pan-European resource sharing for e-Science"

• Endorse Draft GRID AUP as the basis – starting point?







General purpose vs. disciplinary grids: (page 21)

- "A forum dedicated to the coordination and exchange of technology and policy for disciplinary grids should be formed. The task of the forum is to reduce duplication of efforts, but still recognize and pronounce unique demands from disciplinary user communities"
 - Possibly handled by eIRG (policy issues) and technical support group (technical issues)?







On demand grid networking: (page 6)

 "The eIRG stresses the importance of deploying flexibly configurable and reliable end-to-end optical connections for Research and Education end-users (e.g. eScience experiments). This provision should coexist with IP-routed services and build upon the European 3-tier hierarchical model consisting of the *Campus, NRENs and pan-European GEANT networks."*







Authorization roadmap: (page 71)

 "The eIRG encourages work towards a common federation for academia and research institutes that ensures mutual recognition of the strength and validity of their authorization assertions"







Wider visibility..

 "The eIRG gives high priority to the visibility of European infrastructures at Venues such as the annual Supercomputing Conference organized in the US. The goal is to have an increased and continuous presence at booths, panels, talks, and keynote addresses. eIRG thus endorses a co-ordinated European presence at Super Computing 05. Europe should also focus on creating greater global visibility of corresponding European venues. This could entail merging of some conferences to create critical mass and reach global impact. "



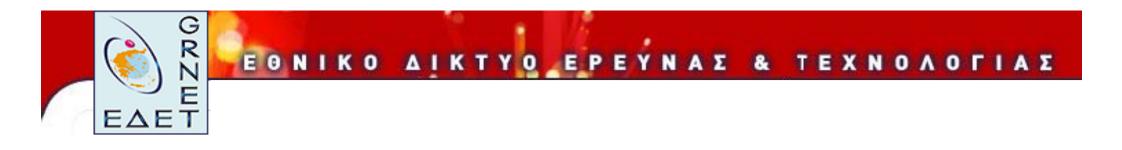




- Study middleware-related licensing issues in Grid related projects, national or international
 - In order that the different communities are able of changing-adapting according to their needs the middleware releases







Thanks!

- mailto:fkara@grnet.gr
- EGEE NA5 mailing list
 - mailto:project-eu-egee-na5@cern.ch
- e-IRG site
 - www.e-irg.org
- EGEE NA5 agenda pages
 - http://agenda.cern.ch/displayLevel.php?fid=194



