Life Sciences Grid Research Group

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Attending this GGF14 session means that:

- You have read and understood the GGF Intellectual Property (IP) Policy and

- You acknowledge that participation in GGF is subject to the GGF IP Policy.

You have already signed for the above when you registered for GGF14
Secretaries

- Need 2 secretaries present and taking notes
Leaders

• **Research Group Chairs:**
  – Dave Angulo, DePaul University
  – Abbas Farazdel, IBM Healthcare and Life

• **Special Recognition to:**
  – Peter Arzberger, SDSC

• **Secretaries:**
  – Larry Ang, BioInformatic Institute
  – Piotr Bala, N. Copernicus University

• **LSG Advisory Council (TBD)**
• **LSG Community**
Example Project (Updates at Gridforge.org)

- **Worldwide LS grids Survey Subcommittee Leaders:**
  - Mark Miller, SDSC Integrative Biology Program
  - Karpjoo Jeong, Kookmin University, Seoul
  - Vincent Breton, PCSV Group
- **Open LSG Architecture Subcommittee Leader:**
  - Rick Stevens (interim), Argonne
- **Workflows Subcommittee Leaders:**
  - Carole Goble, University of Manchester
  - Virinder Batra, IBM
- **LS Solutions (Medical Informatics) Subcommittee Leaders:**
  - Vincent Breton, PCSV Group
- **Requirements Document**
  - Vincent Breton, PCSV Group
- **Workshop GGF Deliverables:**
  - John Ibbotson, IBM UK
Open Positions

- **Requirements Document Subcommittee Leader:** Open
- **LS Solutions (Discovery) Subcommittee Leader:** Open
- **LS Solutions (Medical Imaging) Subcommittee Leader:** Open
- **Best/Common Practices in Healthcare and LS Subcommittee Leader:** Open

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![Graph](image-url)
Life Science Grid – Research Group

• Explores issues related to the integration of Information Technology with the Life Sciences on a grid infrastructure.
• Works at the interface of two revolutionary areas: biology and information technology.
• Throughout 2005, LSG will be exploring privacy and security needs of the health care industry.
  – Focus question:
    • Whether GGF is developing enough middleware tools so that users of grid technology in this industry are able to comply with many required security and privacy guidelines and policies.
• Deliverable of the workshop:
  – An Informational Document addressing the issues of security and privacy in healthcare industry and how it relates or challenges GGF.
Security Groups Interaction/Coordination

- Allen Luniewski & Dave Berry
  - Co-Chairs OGSA Data WG
- Andrew Simpson
  - Oxford
  - Developing secure, interoperable frameworks to facilitate aggregation of clinical data from disparate sources.
- Peter Kunszt
  - European EGEE Project
  - Grid Storage Resource Management WG
  - Already have a good set of requirements and detailed design
  - Have discussed
    - How EGEE may profit from the grid
    - What EGEE would need in terms of security to be acceptable
    - How EGEE deals with biomed requirements
  - See
    - https://edms.cern.ch/file/594698/0.1/architecture.pdf
  - chapters 5 and 9.5
Special Issue

- Konagaya Akihiko, Riken, Japan.
GGF 15

- Partnering with IDG to form GridWorld
  - Once per year
- Boston, Massachusetts
- October 3-6
Mission: Healthcare & Life Sciences (HC&LS)

1) Identify different solution areas and classify them
2) Explore possible reference architectures for each solution area
3) Identify clear examples and the diverse use of the grid within HC&LS
4) Discuss issues of access to data within HC&LS
5) Discuss state of standards, within subdisciplines and between subdisciplines
6) Identify how the grid is being challenged by HC&LS, and where there is need for activity
7) Identify linkages to other research and working groups
Complex ecosystem associated with GGF

GGF Ecosystem

Academia: Computer Science, Applied Science
Researchers: Research Labs, Economic Development Programs
Government: Government Labs, Academic Labs, Government Funding Programs
Commercial Vendor: Software/Hardware Vendors, Industry Solution Providers
Industry Users: HPC Users e.g.: Pharma, SOA Apps e.g. Transactions
Media: Grid Publications, Analyst Publications
Other Consortia: Globus, Internet2
Other Standards Orgs: SNIA, IETF
Grid Installs: Japan Grid, Korean Grid, European Grid, TeraGrid

Partners: Online Publications / Bloggers
Present / Future Users: Researchers

KEY
HPC = High Performance Computing
SOA = Services Oriented Architecture
Please interrupt!!

Participate

Let’s make the talks interactive and lively
Agenda

• 9:00 AM – 9:15 Introduction (Angulo/Farazdel)
• 9:15 – 9:30 Healthgrid Conference Conclusions. Vincent Breton
• Health Grids Workshop Presentations
  – 9:30 AM – 10:00 Tyrone W A Grandison, IBM Almaden Research “Data Disclosure Technology for the Grid”
  – 10:40 AM – 11:00 Break
  – 11:00 AM – 11:30 Stephen A. Langella Ohio State University, Department of Biomedical Informatics “caGrid Security Architecture”
  – 11:30 AM – 12:00 Stuart Johnstone President/CEO CompassCase “HIPAA- Where Atomic Data Collides With Distributed DNA”
  – Roundtable, Q&A, Discussion