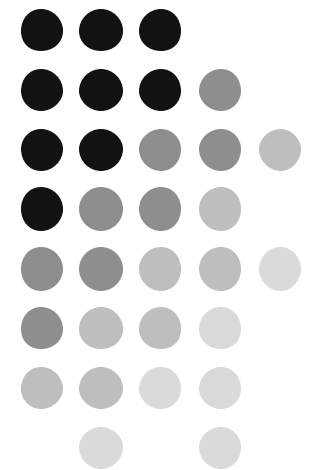
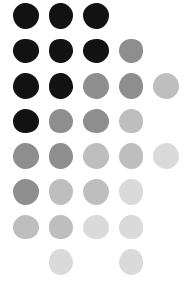


BOF: Workflow Management Research Group

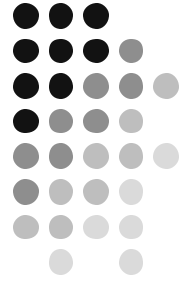
October 8, 2003





Proposed Chairs

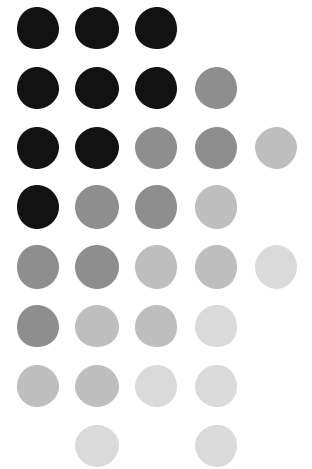
- Ewa Deelman
 - Information Sciences Institute, USC
 - Mapping workflows onto the Grid
- James Blythe
 - Information Sciences Institute, USC
 - Planning services for workflow execution
- Miron Livny
 - University of Wisconsin at Madison
 - Workflow execution

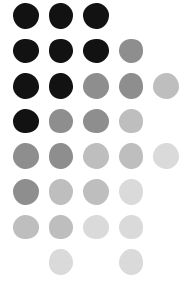


Agenda

- Brief presentations on workflow issues
 - Chairs
 - Marian Bubak (Crossgrid project)
 - Anthony Mayer (Imperial College)
- General focus of the proposed group
- Milestones and objectives of the proposed group
- Relationships to other groups
 - Possible overlaps
- Discussion

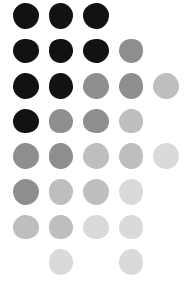
Proposal for a Workflow Management RG





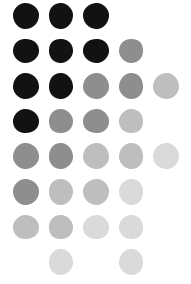
Questions to be answered

- Do we need to exist? Is there interest in this research group?
- Who is interested in actively taking part in the group?
- Is the current charter appropriately focused?



Proposed Charter

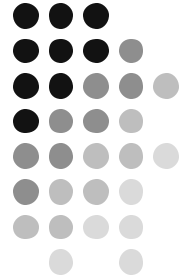
- Explore, evaluate and propose workflow representation and mapping techniques that enable the high-level description of application workflows and their execution in the Grid environment.
- Focus on scientific workflows, which describe the behavior of complex applications.
- Investigate workflow issues as they pertain to the entire workflow lifecycle, starting from the reuse of generic idioms for composing groups of tasks, to the tracking of the progress of a complex task or workflow from the initial formulation of desired end tasks or data products through to execution.



WMF-RG focus

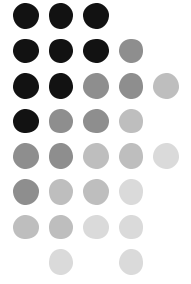
- Issues related to workflow refinement
- Issues related to workflow execution
- Providing appropriate interfaces for workflow monitoring and repair
- Providing appropriate interfaces for interactions with the workflow
- Include industrial

Proposed Goals for the group



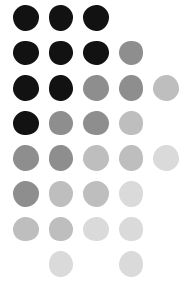
- Provide a forum to discuss and share best practice in projects that use workflows to represent complex applications.
- Track workflow activities within W3C and inform the Grid community on what tools and ideas are relevant in the Grid environment.
- Evaluate the applicability of web services coordination to grid services.
- Explore various existing technologies applicable to workflow management.
- Identify the open issues in the area.

Overlap with other groups?

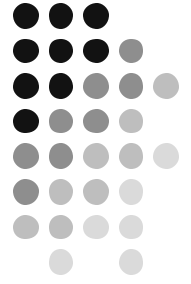


- Lifesciences: focuses on the requirements of the lifesciences community
- Sem-Grid: explores issues of workflow composition at the metadata/semantic level
- GCE: service composition in portal environments

Proposed milestones: documents



- Overview of Workflow Execution Systems in Grids (GGF 10)
- Workflow Specification Languages (GGF 11) Darrin Pulsipher (some languages)
- Overview of Workflow Management Research in Web Services and Applicability to Grid Services (GGF 12)
- Open Issues in Workflow Management in Grids (GGF 13)
- A roadmap for representing and reasoning about workflows. (GGF14)



Discussion Topics

- Is the focus sufficiently narrow that work can get done?
- Where there are suggested changes in focus, how do they impact the milestones and objectives? I.e. do the changes weaken the focus or strengthen it?
- What documents might be produced, and who is interested in working on the documents as authors?