

Workflow Management Research Group

Global Grid Forum, Scheduling and Resource Management Area

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Email list: wfm-rg@ggf.org, to subscribe email majordomo@gridforum.org with the following command in the body of your email message: subscribe wfm-rg

Web page:

<http://www...>

Charter:

Focus/Purpose: The purpose of this group is to 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. Particular emphasis will be given to scientific workflows, which describe the behavior of complex applications. We will 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.

The group will aim to work closely with other areas and groups within the GGF such as: Distributed Resource Management Application API (DRMAA-WG), Data Access and Integration Services (DAIS-WG), Open Grid Services Architecture (OGSA-WG), Semantic Grid (SEM-RG), and Advanced Programming Models (APM-RG).

Additionally the group will follow the developments in other industry and research bodies, such as the W3C.

Proposed tasks:

1. Provide a forum to discuss and share best practice in projects that use workflows to represent complex applications.
2. Track workflow activities within W3C and inform the Grid community on what tools and ideas are relevant in the Grid environment.
3. To evaluate the applicability of web services coordination to grid services.
4. To explore various existing technologies applicable to workflow management.
5. To identify the open issues in the area.

Goals:

Produce the following documents:

Open Issues in Workflow Management in Grids (GGF 10)

A roadmap for representing and reasoning about workflows. (GGF11)

Overview of Workflow Management Research in Web Services and Applicability to Grid Services (GGF 12)

Overview of Workflow Execution Systems in Grids (GGF 13)

Workflow Specification Languages (GGF 14)

Exit Strategy:

Given that workflow management is just beginning to be addressed in Grids, this research group may extend beyond the 2 year limit.