Enterprise Grid Requirements Research Group
Global Grid Forum, ARCH Area

Administrative Information

Enterprise Grid Requirements Research Group: EGR-RG
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Focus/Purpose

The GGF community is developing a roadmap for the Open Grid Services Architecture. A number of companies and non-commercial organizations are actively exploring the use of Web Services and, potentially, OGSA to provide flexible, adaptive, fault-tolerant enterprise-wide service oriented infrastructure to use and manage heterogeneous resources at multiple locations, e.g. geographically dispersed data centers. On the other hand, there are a growing number of customers who are demanding these enterprise oriented grid services. A variety of descriptions have been applied to these enterprise grid capabilities, such as “on-demand,” “utility” and “automated” or “autonomic” computing. The purpose of this research group is to identify key technical requirements, scenarios and common approaches to enterprise grid computing.

Scope

The work of this research group should include both an examination of technical requirements and an exploration of common use cases for enterprise (on-demand, utility, automated, etc.) grid systems.

The technical scope of this RG includes,

- Promoting technologies that
  - provide services which dynamically meet the requirements of applications and the priorities of the business.
  - drive efficient utilization of IT resources namely (optimal resource allocation, dynamic resource allocation)
  - deliver automation/reduce system management.
- The Grid technologies to be addressed apply to all resources required for computation, which may be geographically local and/or distributed.

Since the definition of the Enterprise Grid is not clearly defined, the group will first try to define what an Enterprise Grid is. (e.g. Grid for Data Center, inside the enterprise, business applications (CRM, etc.) on Grid, engineering applications for business entities. Grid Systems, which are utilized to support the operation of large scale, geographically distributed enterprises.)

The Group will then try to

- Capture, identify and develop enterprise end-user requirements and use-cases that could potentially impact the OGSA specification and the work being conducted by the various GGF groups.
- Establish criteria for what qualifies as Enterprise Grid requirements and use-cases.
- Establish an understanding of Enterprise Grid based on the requirements, use-cases, and derived patterns.
- Solicit, identify, collate, document and factorize and prioritize:
  - Key technical requirements for intra and inter enterprise grids
  - Scenarios and use-cases
  - Common approaches and best practices
- Identify the gaps between current work and identified enterprise requirements
- Provide use-cases and prioritized input to the OGSA-WG group
- Interact at a grass-roots level with groups outside of GGF like Enterprise Grid Alliance (EGA) and Distributed Management Task Force (DMTF), Organization for the Advancement of Structured Information Standards (OASIS), World Wide Web Consortium (W3C), etc.)

The group will engage end users (in this case those who are seeking to deploy enterprise grid systems) and developers (i.e. those who are engaged in developing the technologies/services for enterprise Grids) in developing use cases, soliciting, collating, factorizing and prioritizing common requirements.

Goals

This research group will begin with a survey of intended deployment scenarios and other use cases. It will also Survey current Enterprise Grid end-users, developers and administrators in order to obtain requirements and use-cases; also, survey current Enterprise end-users, developers and administrators who would be candidates for Enterprise Grid but may not be using Grid nor may be knowledgeable about Grid technology. Common requirements will be identified and prioritized. All documents are intended to be informational.

Milestones

Sep 2004 (GGF12)	Workshop: Enterprise Grids– Survey of practices (current and planned) Presentation from service providers/developers and users
December 2004	Outline: “A survey of Enterprise Grid Deployments”
March 2005 (GGF13)	Draft: A Survey of Enterprise Grid Deployments”
June 2005 (GGF 14)	Information document: “A survey of Enterprise Grid Deployments”
November 2005	Outline: “Common Requirements for Enterprise Grids”
March 2006 (GGF 16)	Workshop: Enterprise Grids – Survey of requirements
March 2006 (GGF 16)	Draft: “Common Requirements for Enterprise Grids”
June 2006 (GGF 17)	Final: “Common Requirements for Enterprise Grids”
September 2006 (GGF 18)	Draft: “Gap Analysis and Recommendations”
December 2006	Final: “Gap Analysis and Recommendations”