

Group Name: Peer-to-Peer Discovery (p2pdisc-wg)

Chairs: Karlo Berket, LBL, kberket@lbl.gov
Wolfgang Hoschek, LBL, whoschek@lbl.gov
(we plan on finding another chair from outside of LBL or
having one of us step down prior to group creation)

Secretary: Wolfgang Hoschek, LBL, whoschek@lbl.gov

Mailing List: from GGF or do we need to create one?

Description and Objectives

Focus/Purpose:

Modern scientific research is conducted by large distributed multi-disciplinary teams that are cooperating to conduct experiments, simulations, and achieve results. These teams are often globally distributed and multi-institutional. A difficult problem for these teams is often finding data, results, and resources. Many of these teams solve this problem by defining centralized storage and managing the resources as a single domain. But, this solution scales poorly and does not allow for opportunistic use of resources and data repositories. A much more scalable alternative would be to leverage the ideas of peer-to-peer computing.

Today, in the peer-to-peer world there are almost as many discovery services as there are peer-to-peer applications. These services are not interoperable and for the most part are application specific. The goal of this group is to investigate the requirements for distributed discovery and produce protocol definitions for distributed resource discovery.

Goals/Milestones:

Produce a distributed discovery requirements document - by GGF12

Produce protocol definitions for distributed resource discovery - by GGF13 (this may take longer and if so we would move everything that follows back by 1 GGF)

Produce binding document for SOAP transport - by GGF14

Reference implementation of distributed resource discovery - by GGF15