SUPERCOMPUTING 2006 (SC'06): BOF session on "Delivery of Network Services across Heterogeneous Optical Domains"

Tuesday 14th of November 2006, time: 12:15-1:15 pm, location: 18-19

A joint effort of GLIF and OGF ghpn research working group

End-to-end on-demand scheduling of optical network resources for high-end grid applications has been advocated, studied, and implemented by many national and international R&D organizations, NRENs and research projects. While a lot of progress has been made in realizing this vision, many new questions have arisen addressing technical, organizational and policy based issues.

There are still many challenges involved in building a global research network infrastructure to meet the emerging needs of high-end Grid applications and collaborative services.

To address this situation, a strategic alliance between two international organizations has been formed; The Grid High-Performance Networking research group (GHPN) in OGF, mostly focusing in defining applications network requirements and network services; and the Global Lambda Integrated Facility (GLIF), working towards enabling a globally interconnected lambda test-bed.

Coordinated by the two organizations, the aims of this BoF session are:

(1) To increase community awareness and engagement to this common GHPN/OGF and GLIF research and development agenda
(2) To widen participation to a new effort in collecting, reporting and analyzing experience concerning deployment of network services across heterogeneous research network domains. This effort will accelerate problem solving in delivering network services to scientific community in a global scale
(3) To facilitate the interaction between the research networking community and network researchers in order to identify new and/or disruptive networking technologies, architectures and protocols to address the increased scale and complexity of the Future Research Networks
(4) To inform and solicit input about new initiatives towards standards regarding application and network interfaces among multiple technology layers and administrative domains