

Case Studies on Enterprise Grid

EGR-RG

Date: 13th September 2006

Scope:

Various case studies of Enterprise Grid are presented. Those case studies are categorized into several common patterns. The common requirements for enterprise grid will be extracted through the categorization and gap analyses.

Program

Part1: 10:00-11:30 at 159A-B

10:00-10:30 “Aim of the Workshop”, Toshiyuki Nakata (NEC Corp)

10:30-11:00 “US Navy's Fleet Numerical Meteorology and Oceanography Center”, Nick Werstiuk, Product Manager - Open Cluster Group (Platform Computing)

At the US Navy's Fleet Numerical Meteorology and Oceanography Center (Fleet Numerical), weather prediction with state-of-the-art numerical models requires significant High Performance Computing (HPC) resources, complex job dependencies and tight job scheduling. By using Platform's leading-edge grid solutions, Fleet Numerical has implemented the capability to offer a single command and control infrastructure between multiple sites located thousands of miles apart to share HPC resources while maintaining federated scheduling policies. As a result, Fleet Numerical has been able to capture economies of scale and reduce the total cost of operations through increased utilization of existing resources and infrastructure.

11:00-11:30 “Building a Campus Grid: Concepts & Technologies”, Mary Fran Yafchak (SURA: Southeastern Universities Research Association)

An enterprise grid can be a powerful vehicle to realize the full research potential of the university. The campus perspective brings the need to balance the distinct administrative priorities of various resource owners with distributed access, often leading to inter-disciplinary collaboration where it might not otherwise have occurred. Integration with the middleware infrastructure emerging within Higher Education is also a

priority for a campus grid in order to support the increasingly inter-institutional nature of research and academic pursuits. This presentation will overview "Building a Campus Grid: Concepts & Technologies," a paper that blends the insight and experience of several campus grid building efforts to illuminate common approaches and lessons learned. These institutions are also contributing campus resources to SURAgriid, a multi-institutional, multi-user grid infrastructure being developed within the Southeastern United States.

Part2: 13:30-15:00 at 159A-B

13:30-14:00 "Grid for Financial Services", Larry Ryan, Director, WW FSI Grid Strategy (Hewlett-Packard)

The Financial Services Industry is on the leading edge of early adopters of grid technologies. HP is working with our customers in this market to help them use grid technologies effectively to meet their needs. This session will discuss our customers' requirements, the benefits they are gaining, the challenges, and the solutions that they are working with HP to deploy.

14:00-14:30 "Requirement Analysis of Grid Scenarios", Mathias Dalheimer (Fraunhofer Institut fuer Techno- und Wirtschaftsmathematik: ITWM)

Abstract is now preparing.

14:30-15:00 Introduction to the next step of EGR-RG, Toshiyuki Nakata (NEC Corp) and Ravi Subramaniam (Intel)