

Workshop on Enterprise Grid Solutions and Deployments Starts @ 14:15

21st September 2004

Held by
EGR-RG

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Workshop Aims:

- To have a discussion on what technology currently exists and what are the real users' needs for Enterprise Grid Solutions
- Have several “Producers” and “Consumers” of Grid describe their experiences in providing/using Enterprise Grid.
- Expand the discussion done here is to identify key technical requirements, scenarios and common approaches to enterprise grid computing.
- Advertise the existence of the EGR-RG (Enterprise Grid Requirements Research Group) ☺

Speakers:

■ Session 1

- “Aim of the Workshop” Toshiyuki Nakata (NEC Corp)
- "Intra-Enterprise Grid", Jikku Venkat (United Devices)
- "The evolution toward assured grid services", Nigel KJ Dye (British Telecom)

■ Break 30 minutes

■ Session 2:

- "Grid Portals", Karsten Gaier (NICE srl)
- "Business Grid Project - Objectives & Key Technical Issues - ", Nobutoshi Sagawa (Hitachi)
- "Enterprise Grid Challenges - A Perspective", Ravi Subramaniam (Intel)

■ Workshop summary, Ravi Subramaniam (Intel)

Thanks

- Workshop PC members
- Special Thanks to Satoshi Itoh (AIST) for all the organization
- Please Join Us!!
 - **Email list:** egr-rg@ggf.org
 - **Web page:** <http://forge.ggf.org/projects/egr-rg>

Intra-Enterprise Grid (United Devices)

- Sanofi ,
- Glaxo Smith Kline
- Auto Manufacturer: Optimization Problem for scheduling of Just in Time
 - Multiple Workflow: Run more scenarios.
 - Production monitoring Mainframe
- Drug Discovery

United Devices Requirements

- Ease of Application Integrity
- Enterprise Scalability
- Security (Protecting Data using Encryption: Tamper Monitoring.)
- Flexible policies for resource management
- Data Management
- Meta Data Management
- Integration with IT infrastructure, standards

(Service Oriented) BT

■ Why Grid

- To lead the world in network centric ICT solutions.: Partnered with HP
- MF->Standalone PC->NW PC-> Utility Computing->Virtual MF
- Leased Line->Router Firewall ->VPN->Pre-Grid ->Grid

■ In the enterprise Market is very complex

- Std. security, metering, billing Quality of Service
- Enterprise Virtual Computing needs a Virtual Fabric

BT

- 80% don't know the nw blackbox
- Don't know how much traffic..
- It's a ubiquitous world.
- Corporate IP NW for intranet Apps, Data
- How to manage Enterprise IN in a Grid world
 - Grid is about Creation of a new business model.
 - Selivering Assured Applications AAI
 - Ubiquitous MPLS
- Grid Enable ->Utility Computing
- Resource Brokering: Service Provider
- Let us virtualise your computerised resources

- Security
- What is the Grid?
- Standards
- GRID is International ->Standards
- Why BT
 - Already leaders in IP/VPN
 - Long history in network services
 - Trusted and Secure
 - Whole sale experience
 - Fabric and service supplier agnostic
 - Long Term future...

Grid Portals(Nice)

- Compute Grid
Data Grid
- Focus on solutionwork
 - Applications are the key
 - Most applications are unchanged
 - Proper balance CPU I/O Net
- Industry Leading Components
- Flexible Approach to Grid projects

Grid Portals (Nice)

- Basically a Grid Portal aims @ leveraging Grid Usability
- The less you see the Grid the better
- Security ROI
 - Standardize the development Process
 - Simple & Broaden the compute resources
 - Improve user's productivity
 - Address IT productivity
 - ROI in IT resources
 - License Usage Monitoring/Control Successful because it is a single portal

Business Grid (Hitachi)

- Effective Utilization of IT resources
- Robust IT environment for Business Continuity eg (Disaster Recovery)

Enterprise Grid (Intel)

- 70% Frontend (Computing) 30% Backend (I/O intensive)
- Multiple Projects in Parallel
- Management of Cycles/Data/Licenses/Security
- Ubiquitous/Mobile
- Key Drivers
 - BD: Agility/Quality/Cost/Complexity
 - TD: Automation/Efficiency/Robustness and Flexibility

- Significant Manual Effort
- Requires Homogeneous Env.
- Security is a challenge
- Sustained effort for data sharing
- Tool Centric->Infrastructure Oriented

Grid Challenges

- Legacy Apps. And env. (Slow transition)
- Changes in Perspective
- Tools vs Infrastructure
- Hype vs. Reality
- Maturity of Technology
- Multiple Vendors

■ Resource Management->Perspective Change

- Hierarchical + Aggregated or granular
- Client : QoS /Monitoring

Future Grid Perspectives

- Unified Framework
- Pervasive Standards
- Security
- Multiple points of Control
- Multi-Use Customizable
- High Availability/Upgradeability
- Declarative Capability->Policies
- Data Sharing
 - Declarative

Thanks

- To the speakers for very interesting talks
(with a bit diverse view of an Enterprise Grid)
- Special Thanks to Satoshi Itoh (AIST) for all
the organization
- Please Join Us!!
 - **Email list:** egr-rg@ggf.org
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