



Enabling Grids for E-science

SA1 Activities of TUBITAK ULAKBIM

May – September 2008

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- **SA1 Activities of TUBITAK ULAKBIM – 66 PM**
 - SA1.1.7 – Operation of National CA and RAs – **6 PM**
 - SA1.2.3 – First line support for operation problems – **22 PM**
 - SA1.2.5.a – Coordination of middleware deployment and support – **16 PM**
 - SA1.2.6 – Interoperations, local, regional – **2 PM**
 - SA1.2.8 – Operations requirement collection – **2 PM**
 - SA1.3.2 – TPM and user support effort – **15 PM**
 - SA1.3.4 – SA1 participation in site and user training – **3 PM**

- **TR-Grid CA has recently completed a self-audit process, which is encouraged by IGTF for all member CAs.**
 - Some policy and operation related deficiencies corrected.
 - Compliance with IGTF minimum requirements ensured.
- **Operation of RAs separately audited.**
- **Online application form for TR-Grid user accounts and certificate request web form integrated.**

- **Completion of gLite-3.1 64 bit migration at sites**
- **All core services upgraded to gLite-3.1 64 bit configuration**
- **Regular middleware and security updates, patches for the missing configurations of updates**
- **Installation of central log server against attacks**
 - All nodes of ULAKBIM sites are continuously monitored by this central log server
 - Logs collected:
 - All system logs including authentication, kernel etc.

- **AMGA installation: amga.ulakbim.gov.tr**
 - primarily for national and regional earth science users: seismo VO
 - also available for see VO users
- **FTS installation is planned before the end of the year**
 - Primarily for HEP and seismo users
- **ARC middleware installed at a 4-node testbed**
 - More light-weight compared to gLite, faster in job submission
 - Resource brokering at client side
 - Once installed, upgrades and configuration changes are easy

- **Integration of ULAKBIM grid sites with METU Computer Eng. HPC Cluster**
 - Making use of DEISA model
 - National LDAP authentication
 - Cluster file system for shared home directories (lustre)
- **Future plans:**
 - Further integration of all national HPC centers with TR-Grid
 - Contribution to the integration of HGSM and GOCDB
 - Integration of national helpdesk with regional helpdesk
 - Deployment of ARC at a TR-Grid site and testing its interoperability with gLite core services

- **Tier2 requirement: Upgrade in GEANT connection**
 - 622 Mbps -> 2x2.5 Gbps
- **New hardware purchase**
 - Storage (567 Tbyte, mainly for HEP users)
 - Bid finalised, hardware installed, in production
 - CPU (160 cores, mainly for local users)
 - Bid in process
- **Change in the design of system room for optimized air conditioning and safe electricity usage.**

- **HEP users**
 - Native wiki pages prepared
 - User Interface at ULAKBIM customized for atlas and cms applications
 - Tier2 centers (TR-03, TR-10) customized for atlas and cms VOs
 - Data transfer tested from Tier1 centers
- **Earth Science users**
 - Core services configured for seismo users: UI, WMS, BDII, VOMS, MYPROXY, AMGA
- **Computational chemistry and computational physics users**
 - Module tool to set environment variables in a user-friendly way

- **3-day trainings for HEP users in Ankara (April 30-May 2, 2008) and Gaziantep (June 19-21, 2008)**
 - What are the current grid tools for HEP users
 - Introduction of installed atlas and cms software at UI and sites
- **Site admin training at METU Computer Engineering Department**

