



Enabling Grids for E-science

EGEE SA2 / TERENA NRENs & Grids joint workshop

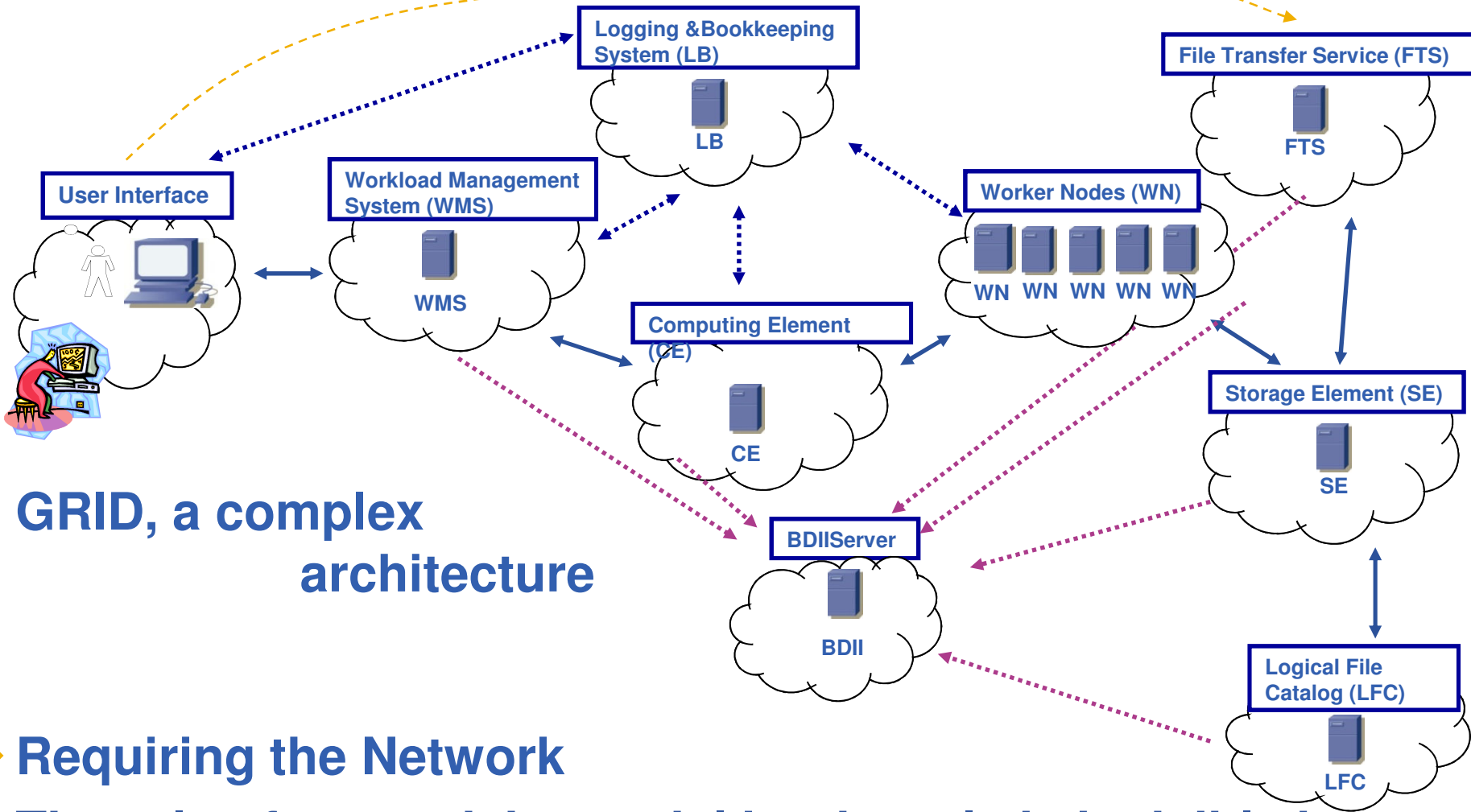


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www.eu-egee.org

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- **GRID, a complex architecture**

- **Requiring the Network**

- **The role of network is crucial but its role is invisible in the eyes of the Grid**

- ***“Networks work fine, QOS seems difficult to achieve and anyway our applications are robust enough to cope with network defect” Grid application people***
- **We need to improve**
 - **The Grid network operation**
 - **Identifying network trouble, Maintenance, Monitoring, Topology**
 - **The access to advance network services**
 - **What is available? Where? How can I use it?**
- **The multi-domains challenge → a collaboration NRENs / Grids around pragmatic project**
- **Grid is definitely within the competence of the NREN and the Grid is a major stake for the NRENs but we have to propose better services**

- **Advanced Network Services Session (11:00-13:00)**
 - Requirement of application, access to advanced network services thanks to the middleware. Booking system. AuthoBAHN.
- **Network monitoring session (14:30-16:00)**
 - The foundation of the collaboration between Grid and network people
 - Troubleshooting
- **IPv6 session (16:00-16:30)**
- **Project-wide Network Operation Session (17:00-18:00)**
 - The network is crucial for the Grid project but network operation is primitive (maintenance, ticketing system, bandwidth reservation ...)
- **Grid middleware session (18:00-19:00)**

- 14:00PM-14:30PM: **Advanced network services**
 - *The **Harmony** and **Phosphorus** project (i2CAT)*
 - ***AMPS**: An automatic tool to provision premium IP circuit over European NRENs (EGEE-SA2: GRNET - video)*
- 16:30PM-17:00PM: **Network grid monitoring**
 - ***PerfSONAR**: monitoring of the LHCOPN (DANTE)*
- 19:00PM: **Grid middleware and Grid Operation**
 - ***Grid certificate within minutes** (NDGF, UNINETT, TERENA, NORDUnet A/S, UNINETT, PDC)*
 - *Grid Operation: **Ticket normalization** (EGEE-SA2: GRNET)*

- These other demonstrations will be given during the week (**on demand**)
 - **Network troubleshooting** :
PerfSONAR Lite TSS: A new light tool for network troubleshooting (EGEE-SA2: FAU)
 - **IPv6**: *The 2 first IPv6 EGEE sites (EGEE-SA2: CNRS, GARR)*