



Enabling Grids for E-scienceE

Grif site report

GRIF Team

www.eu-egee.org



- 1 **unique grid site** with HW AND technical team spread over several locations
- **Large autonomy of each site** regarding local integration of grid resources, grid services, OS versions used, shared/non shared home directories...
- 1 common version of grid MW everywhere but ability to **upgrade site by site** (ability to run different versions).
- 2 key organizational choices : **Quattor with one configuration DB** for the whole site and **one technical team** with 1 face to face meeting every month + everyday communication through an email list.

- **Quattor configuration based on QWG Templates** (originally developed at LAL), a standard set of templates for configuring grid services shared by 40 sites. Benefit from others' developments and our additions for GRIF needs shared with others.
- Quattor allows high level of load sharing for management tasks like MW upgrades (+ rollback capabilities). **Try to install gLite updates in the week after the release** (less for high priority). Generally done by one person for the whole site.
- **Some services are unique :**
 - VOMS server
 - LCG RB
- **One service has a backup :**
 - Site bdii
- **The sites do not support the same set of VOs**

- **Quattor** (installation and configuration)
- **Nagios** (monitoring)
- **Lemon** (monitoring and alarm mechanism)
- **SAM portal** to verify the site status
- **Monalisa** Web page to see site status for ALICE VO
- Mailing list **EGEE broadcast** and **LCG-ROLLOUT**
- **GOC database** (accounting, site contacts)
- **CLIC portal** (VO information, EGEE broadcast)
- Local grid support **helpdesk/Wiki** ...

- **Scheduled interventions**
 - Electricity/Security maintenance
 - machines update : hardware and software (depends of updates)
 - network update : hardware
- **Unscheduled interventions**
 - Corrupted databases
 - Network instability
 - Cooling problems
 - Electricity cuts

- **How it is detected at our site:**
 - by **local/remote users** (mail, toc toc at the door, phone) :80%
 - by **SAM tests** (alarm mail by the CIC: very useful):10 %
 - **COD** via GGUS ticket (after a weekend): 5%
 - by **sysadmin** (job submission, LEMON, network): 5%
- **Correlation of cross-site issues :**
 - SA1-fr, LCG-fr **Visio conference**, very useful for this
 - SA1-fr and LCG-fr **mailing lists**
 - **LCG-ROLLOUT**
 - **EGEE broadcast**
- **Participation in the “System Management and Monitoring” working group of HEPiX**

- **Support appreciated at our site:**
 - **LCG-ROLLOUT**
 - **ROC support** but not for all the tools (ROC with specific batch system, specific SE and installer via AFS)
- **what features are missing to make our work easier:**
 - **search engine on the CIC portal** on specific recognized grid pages