



The CCIN2P3 and its role in EGEE/LCG

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Based on a presentation done by F. Hernandez and R. Rumler in a meeting in Lyon, June 29th 2006

▶ LCG - the computing model



LCG defines a computing model:

- Tier-0, tier-1, tier-2, tier-3...
- Every tier-n has its specific task
- Every tier-n's capacity planning depends on this task
- Every tier-n organizes itself - especially staff, operations, and support

But:

- (Nearly) no one organizes overall operations and support

▶ EGEE- the operations model



EGEE defines an operations model:

- Operations Coordination Center, Regional Operations Center, Resource Center (OCC, ROC, RC)
- Operations tools
 - *Grid Operations Center Data Base (GOCDDB)*
 - *Global Grid User Support (GGUS)*
 - *Operations portal*
 - *Site Functional Test / Service Availability Monitoring (SFT/SAM)*
 - *And others (VOMS, VO ID cards...)*
- Operations staff: Grid Operator on Duty, ENOC, First level user support (TPM), Security coordination (OSCT)
- Procedures for all this, and for deployment (TCG)

Also responsible for middleware and tool development

▶ LCG/EGEE interactions



LCG and EGEE interact at different levels:

- _ OCC located at tier-0, ROCs at tier-1s
- _ Subset of RCs form the other tier-n centers
- _ Middleware evolved from LCG to gLite
- _ TPMs come from LHC VOs (and others)
- _ Service Challenge teams, LHC VO managers, tier-1 representatives, Grid Operators, OCC staff and others have a weekly common phone conference (this includes US Open Science Grid)

▶ Local changes due to LCG, briefly



- Staff increase
- Installations and building to be modified due to increase on CPUs, storage, networking
- Services:
 - _ Ad-hoc teams for service challenges
 - _ Specialized hardware (VO boxes)
 - _ Special storage solutions
 - _ And others (example BQS, the local batch scheduler)

▶ Local changes due to EGEE, briefly



- Yet more staff
- Adaptations to:
 - _ Accounting and user integration procedures (grid VOs)
 - _ Deployment procedures (sysadmins)
 - _ Communications
 - *Service outage announcements*
 - *Site problems, for all the region*
 - *Deployment coordination for the region*
- Grid user management (VOMS servers)
- Inter-site failover procedures for specific services
 - e. g. EGEE-wide visibility due to Operations portal

▶ Roles of the CCIN2P3



- Resource Centre
 - _ Supply compute and storage resources to VOs
 - _ Provide additional grid services, for operations or VOs (host CIC portal, VOMS servers etc)
- Regional Operations Centre
 - _ Communications channel between French sites and OCC
 - _ Representation of French sites in the project
 - _ Deployment coordination
 - _ Assistance and training for grid operations
- Grid operator coordination on the EGEE project level
 - _ Establish and maintain operations procedures
 - _ Coordinate COD ("CIC on duty") working groups
 - _ Coordinate overall COD activity
 - _ Provide CIC portal: development, maintenance