

# LHCOPN Meeting

## July 2007

Thanks to everyone for attending!!

# Conclusions

- Anything we rely on for service is part of the opn and subject to the operational procedures
- Additional links could be provisioned to improve T1-T1 connectivity. How much of this mission do we assume?
  - LHCOPN is a collection of circuits to support the T0-T1 mission.
  - This infrastructure can be used to help support the T1-T1 requirements in so far as that does not impact the T0-T1 service.
  - LHCOPN meeting is assessing the T1-T1 requirements but not provisioning this.
- Backup testing strategy
  - Part of the operational procedures
  - Need to schedule a maintenace window to be negotiated with the physics programme
- Backup Paths some solutions to improve resilience
  - Principle: single event does not isolate a T1
  - Clear recommendations: Need to re-route some links and add some new links. These should now become actions!
  - RAL and PIC need to be informed (action David/Kors) Ral should have a path to SARA
- Operational Procedures
  - Group will take a step back to understand fully the requirements
  - Domains should formally sign up to the handbook (MoU)
  - T1-T1 mission needs clarification
  - Simplification is the network is for bulk data movement. This is done by specific people in the sites and experiments.
  - Need a round with the small group and prepare the workshop. (October) (Action Mathieu) – Date to be fixed by end August
- Monitoring
  - Operations handbook should specify who has access to which data.
  - Software suite ready by November - link utilization, round trip delay, one way delay tests, bandwidth tests.
  - Other possibilities, netflow analysis and BGP monitoring.
  - EGEE Grid community should be made aware of monitoring deployment plans (Action David) OSG will deploy these tools. 1 or 2 PC's needed per T1.
  - Proposal by Dante is a managed service for the ENOC by shipping an appliance to every T1
  - This would be installed at the OPN dmarc. There could be a right to use the appliance for other monitoring.
  - Collect site specific data (hardware infrastructure) and plan for implementation within personar service. (Action Dante)
  - Deployment plan and status (Dante)
- Flyer
  - Feedback to Kors (Action: Everyone)

# Procedural Notes

- Meetings
  - 2 x 0.5 day
  - Separate Ops Workshop?
    - Ops entities have to be represented.
  - Next meeting: October with Workshop at CERN
- Intermediate Activities
  - Conf calls?