

# LHCOPN Meeting November 2007

Thanks to everyone for attending!!

Please Upload All Talks!!

Pwd: OPN2007

# Conclusions

- Operations
  - Agreed on the need to centralise some information
    - Incidents
    - Maintenance/changes
    - Performance measurements
    - Coordinated testing plans
  - Meet with T1's to discuss how to achieve this. (Mathieu, December 7th)
  - Prepare a questionnaire for T1's for existing processes (based on CMM)?
  - "We have established the network feasibility, now we have to establish its credibility."
- Monitoring
  - Defined set of tools to quantify network performance.
  - Appliance
    - Document the proposal. Send to T1's for approval of obligations – need agreement for deployment, may have partial deployment. (David)
    - Loukik to upload document, executive overview and security plan.
    - Send to list and follow up approval (David). 20/11/07
    - Scope is measurements between appliances whatever route that takes. (Full mesh)
  - Software
    - Can be deployed by T1's for T2's monitoring.
    - May be possible to perform T2 monitoring from appliance in the future (scalability to be tested)
  - I2 will provide a best practices guide for T1-T2 monitoring
- Paths/Routing
  - No Backup for RALand PIC (RAL evaluated costs as too expensive – David/Robin to discuss)
  - L3 picture to be updated and put on the Twiki
  - USLHCNet Test circuits from FNAL/BNL to GridKa not part of the OPN
  - USLHCNET OPN Links are: Colt (CERN-Manlan), Qwest(CERN-Starlight), GC (Manlan-Starlight), GC (Manlan-London-CERN)
  - Taiwan transit through USLHCNet to be exported for PerSonar. (Action Dan)
  - Need to clarify Triumpf-Amsterdam link plans and Taiwan link (Michael)
  - SARA T1 link being re-routed, 4<sup>th</sup> USLHCNet link can provide backup capability. Reasonable situation in case of worst case fiber cut. GVA-BSL.
  - Still some single failures that can cut off some T1's (CNAF, PIC, RAL) – Use CERN GN+ service for 1G circuits?
  - PIC Backup possibly via sub-wavelength temporary solution. CNAF needs 3<sup>rd</sup> route to CERN.
  - LCAS scheme for sending across multiple paths simultaneously being studied by DANTE.
  - Diversity of paths within NRENS should be studied.
- Next Meeting: 10/11 March? Where: Rome/Madrid?