



Overnight Thoughts...

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T0/T1/T2 Thoughts...

- Treat T0/T1 issue(s) & T1/T2 issue(s) separately
- View BNL (CNAF?) as upgrades from 10GE to 20GE
 - All Tier-1s are going to face >10GE at some point
 - Separating T0/T1 from T1/T1 is just load-balancing
 - Presumably, the two 10GEs will back each other up...
- This is consistent with current LHCOPN model

Treating the T1 / T2 “Concerns”

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- Get requirements from experiments
 - Examine or ask for update of TDRs
 - Analyze current T2 situation vs requirements
 - Modify architectural model to incorporate T2s
 - Include operations & management aspects
 - Enlist participation of T2s
 - Only then explore technical design options

Interaction with WLCG

- Migrate from link-based operational perspective to service-based one:
 - SLA between Tier-1 Center and Site Networking
 - Incidents = dropping below base-level service in SLA
 - Major incidents:
 - Loss of all LHCOPN circuit services for 'x' amount of time
 - Whatever Site T1 management declares a major incident

Monitoring Issues

- Monitoring implications of migrating to service-based model needs analysis
 - But keep centralized monitoring model
- Dashboard to display LHCOPN primary/secondary circuit status?
 - Alleviate need of reporting secondary circuit maintenance or outages?
 - Still would provide record of secondary outages