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LHCOPN - Large Hadron Collider Optical Private Network

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LHCOPN - Large Hadron Collider Optical Private Network

WLCG Tier0-Tier1 Private Network

Primary information

- Foundations
- LHCOPN AUP
- Routing architecture
- Network topology diagrams
- IP addresses
- Routing policies
- Link's information and Site names
- Technical contacts
- Operational contacts

Monitoring

- perfSONAR-PS in LHCOPN
- Traffic statistics:
  - CH-CERN Netstat
  - CH-CERN in Monit (CERN login required)
- Looking Glasses:
  - CH-CERN

- LHCOPN and LHCONE IPv4 and IPv6 traffic volumes
- perfSONAR
  - WLCG MADDASH
  - CERN Grafana
    - Dashboard
    - Latency per area
    - Throughput
    - end2end performance
    - IPv4 vs IPv6

Additional information

- Relevant mailing lists
  - LHCOPN-architecture@cern.ch: management and architecture design of LHCOPN
  - LHCOPN-operations@cern.ch: operational matters
- How to get Write access to this twiki
- Per site implementation details
- Regular backup test process and reports
- WLCG networking Twikis
- LHCOPN Meetings Archive
Outdated documentation

Operational model

- LHCOPN operational model
- Sample use cases of the operational model
- FAQ - Frequently asked question around the operational model
- Private twiki area for Operations (TTS access, change management DB etc.) - Authentication required

Operations

- Opened GGUS tickets reported as impacting WLCG services - Certificate required
- Operations calendar - All events displayed are service impacting!
- BGP monitoring correlated with GGUS tickets - Certificate required
- Operations Teleconference

Monitoring

- Monitoring draft document (March 30, 2006 draft, MS Word, 578K)
- Monitoring Infrastructure

Security

- GGF document about Firewall issues overview
- LHCOPN security policy document
- Security in HEP laboratories

Others

- LCG Service Challenge TWiki
- Mirror of some key public pages of this twiki (contacts...)
- T2s connectivity WG (later LHCONE): material archive - previous (2009) WG outcome

Working groups' mailing lists

- Mailing list subscription form
- project-lhcopn-routing mailing list archive
- project-lhcopn-opswg mailing list archive
  - Old project-lhcopn-operations mailing list archive
- project-lhcopn-monitoring mailing list archive
- project-lhcopn-security mailing list archive
Site Tools of the LHCOPN Web

- (More options in WebSearch)
- WebChanges: Display recent changes to the LHCOPN web
- WebIndex: List all LHCOPN topics in alphabetical order. See also the faster WebTopicList
- WebNotify: Subscribe to an e-mail alert sent when something changes in the LHCOPN web
- WebStatistics: View access statistics of the LHCOPN web
- WebPreferences: Preferences of the LHCOPN web (TWikiPreferences has site-wide preferences)