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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:**
 - ◆ Low res LHCOPN stats since 2010
 - ◆ CH-CERN in Open Monit[↗](#)
- **Looking Glasses:**
 - ◆ CH-CERN[↗](#)
- LHCOPN and LHCONE IPv4 and IPv6 traffic volumes
- Netsage for LHCONE and LHCOPN[↗](#)
- 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[↗](#)

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Outdated documentation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 [↗](#)
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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)
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This topic: LHCOPN > WebHome

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