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LHCONE

Large Hadron Collider Open Network Environment

Information

- Recent LHCONE meetings [↗](#)
- How to get write access to this Twiki

LHCONE L3VPN Service

- L3VPN Service (VRFs, Connected sites)
 - ◆ Connected sites and LHCONE Prefixes
- Mu;tiONE BGP communities
- Maps
- How to connect to the LHCONE L3VPN
- LHCONE AUP
- CRIC database
- All the IP prefixes allowed in LHCONE must be declared in the LHCONE Prefixes Database in CRIC (Connected Research Computing Centres):
 - ◆ Connected sites (NetSite) [↗](#)
 - ◇ Guidelines to fill the NetSite record
 - ◆ Network prefixes (NetworkRoute) [↗](#)
 - ◇ Guidelines to fill the NetworkRoute record
 - ◆ json view [↗](#) (no login required)
- How to provide a regional instance of the LHCONE L3VPN backbone (for Network Operators)
- MTU recommendations

Operations

- Support
 - ◆ To get support for LHCONE issues, please contact your local network provider. They will escalate to the right upstream providers, if necessary
 - ◆ For data transfer performance issue, please contact wlcg-network-throughput@cernNOSPAMPLEASE.ch
 - ◆ For problems with perfSONAR, please contact wlcg-perfsonar-support@cernNOSPAMPLEASE.ch
- Looking Glasses:
 - ◆ LHCONE looking glass [↗](#)
 - ◆ GEANT [↗](#) - add **routing-instance lhcone-l3vpn** in the argument field
- perfSONAR stats
 - ◆ WLCG MADDASH [↗](#)
 - ◆ PS dash [↗](#)
 - ◆ CERN Grafana
 - ◇ Dashboard [↗](#)
 - ◇ Latency per area [↗](#)
 - ◇ Throughput [↗](#)
 - ◇ end2end performance [↗](#)
 - ◇ IPv4 vs IPv6 [↗](#)
- VRFs Traffic Statistics:
 - ◆ CERNlight [↗](#)
 - ◆ ESnet [↗](#)

- ◆ Geant[↗](#) (login needed)
- ◆ Internet2[↗](#)
- ◆ Renater[↗](#)

Monitoring

- WLCG monit-grafana[↗](#)
- DC24: total in/out traffic of sites[↗](#)
- perfSONAR[↗](#)
- MaDDash LHCONE[↗](#)
- MaDDash WLCG[↗](#)
- LHCONE BGP Filtering State[↗](#)
- ESnet LHCONE prefixes (JSON)[↗](#)
- ESnet LHCONE IPv6 prefixes (JSON)[↗](#)
- Netsage for LHCONE and LHCOPN[↗](#)

Deprecated pages:

- Perfsonar-PS sites
- Perfsonar-MDM

LHCONE P2P Service

- P2P Service
- Minutes of meetings and calls

Working Groups

- Operations
 - VRF
 - Trill/SPB
 - Openflow
 - NSI
 - Diagnostic
 - Software APIs
 - Mailing lists:
 - ◆ lhcone-architecture@cernNOSPAMPLEASE.ch (mailing list archive [↗](#))
 - ◆ lhcone-operations@cernNOSPAMPLEASE.ch (mailing list archive [↗](#))
 - ◆ lhcone-asia-pacific@cernNOSPAMPLEASE.ch (mailing list archive [↗](#))
 - ◆ If you have a CERN account you can subscribe here [↗](#). Otherwise ask extip@cernNOSPAMPLEASE.ch
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