

### NOTES

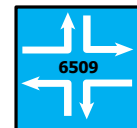
- + a single generic switch/router shape is used for all L1 and L2/L3 equipment and is labeled with an abbreviated model number that is elaborated in “Devices”
- + L1 equipment is shown only when it indicates something about the link status (e.g. connected on one side but not the other) or where it is important to show a location for link physical routing or where it indicates the circuit provider.

### Devices

- 6509/6506/6500: Cisco
- 9006: Cisco ASR
- CoreDirector: Ciena
- MLXe-16: Brocade
- MX480/960: Juniper
- OME6500: Ciena
- T1600/640/320: Juniper
- E1200/E600: Force10
- MERS: Nortel

### LEGEND

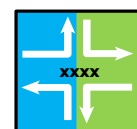
#### L2/3 devices



- Blue: R&E Exchange point



- Green: LHCONE exchange point



- Blue+Green: R&E Exchange point providing LHCONE services



- Orange: Intermediate network providing the VRF service to the end sites



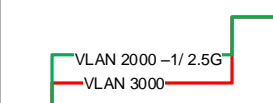
- Dark blue: site

#### L1 devices



- Brown

#### Links



- Link capacity is 10G and shared unless otherwise indicated
- If a capacity is given as xxG then that is the link (L1) capacity and it is dedicated to LHCONE – e.g. 5G
- If a capacity is given as xx/yyG, then it is dedicated LHCONE capacity (xx) / link capacity(yy) – e.g. 1/10G
- “collapsed” VLANs indicate that both VLANs are configured on this link
- With no labels, green = VLAN 2000, red=VLAN 3000.

## **Roles and responsibilities**

Who represents intermediate networks / sites

- \* ACE
  - circuits (GEANT AMS to MANLAN)
- \* ASGC
  - ASGC
- \* Brookhaven
  - Brookhaven (Tier 1)
- \* CANARIE
  - U. Toronto (Tier 2)
- \* CERNLight
  - CERN (Tier 1)
  - PIC (test)
- \* ESnet
  - ESnet StarLight
  - ESnet MANLAN
- \* Fermilab
  - Fermilab (Tier 1)
- \* GEANT
  - RedIRIS
  - GARR
  - RENATER
  - DFN
- \* Internet2
  - Internet2 MANLAN exchange
  - Internet2 Chicago L3 POP exchange
- \* MANLAN
  - MIT
- \* NetherLight / SurfNet
  - NL Tier 1 (SARA and NIKHEF)
- \* StarLight
  - CIC OmniPoP
  - CUDI (?)
  - MiLR/MREN
  - StarLight exchange
- \* USLHCnet
  - circuits (MANLAN ex. to LHCONE Starlight, NetherLight AMS to MANLAN)