



SFINX update

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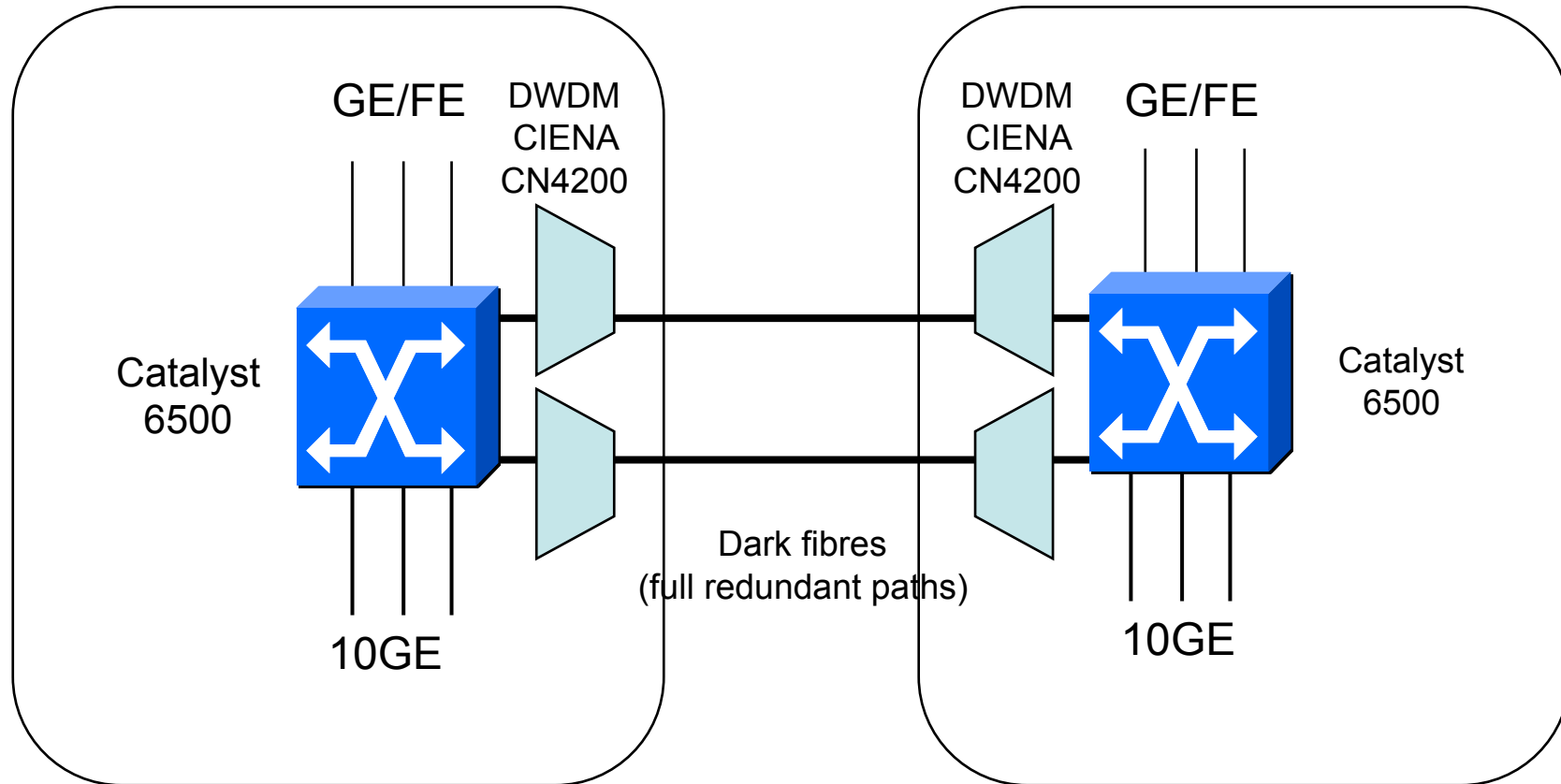
SFINX

- GIX managed by RENATER (French Academic Network – Non Profit Organisation) since 1995
- No transit allowed on SFINX
- 2 PoPs in Paris : Interxion-1 & Telehouse-2
- About 90 ISPs connected to the SFINX
- Average traffic volume : between 12 and 15 Gbps of traffic for each SFINX PoP
- Allocated ports
 - 100 Mbit/s (free) : 40+ ports
 - 1 Gbit/s : 45+ ports
 - 10 Gbit/s : 15 ports





SFINX : current architecture





SFINX - services

- IPv4 and IPv6 (now in a same VLAN, but originally 1 VLAN for IPv4 and 1 VLAN for IPv6)
- IPv4 Multicast (and possibly IPv6 Multicast)
- DNS service :
 - secondary DNS for .fr : to be migrated to anycast service
 - local nodes for DNS root servers
 - F and M root in Telehouse-2
 - I root in Interxion-1
- Port aggregation (EtherChannel or 802.3ad)
- VLAN service (creation of private VLANs between ISPs within a same PoP)
- 24/7 NOC
- NTP service

- Security advisory (RENATER CERT)
- New dedicated portal (web interface) for ISPs : for the management of their contract, access to their stats, require for extra ports and services ...





SFINX - upgrades

- Within the next few months :
 - Replace the existing core switches (Catalyst 6500) by tera-switches to be able to provide much more 10GE ports capacity
 - Either keep Catalyst 6500 as edge switches or replace them by smaller switches dedicated for 10/100/1000M and GE ports
 - Option for adding a new PoP
- => Information to be sent in the SFINX mailing-list to have feedback about the proposed changes



