

NORDUnet resources for Dynamic GOLE pilot

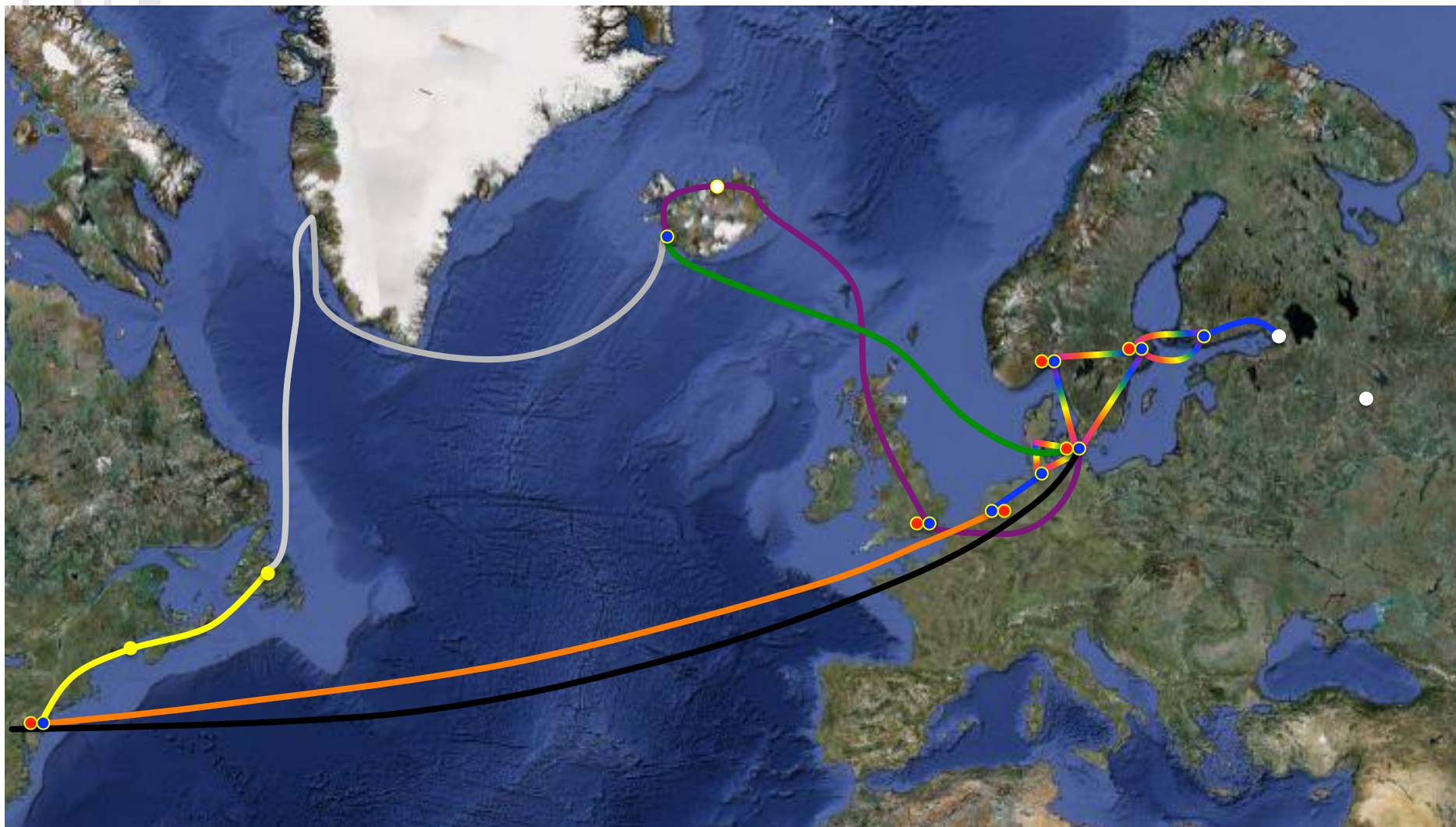
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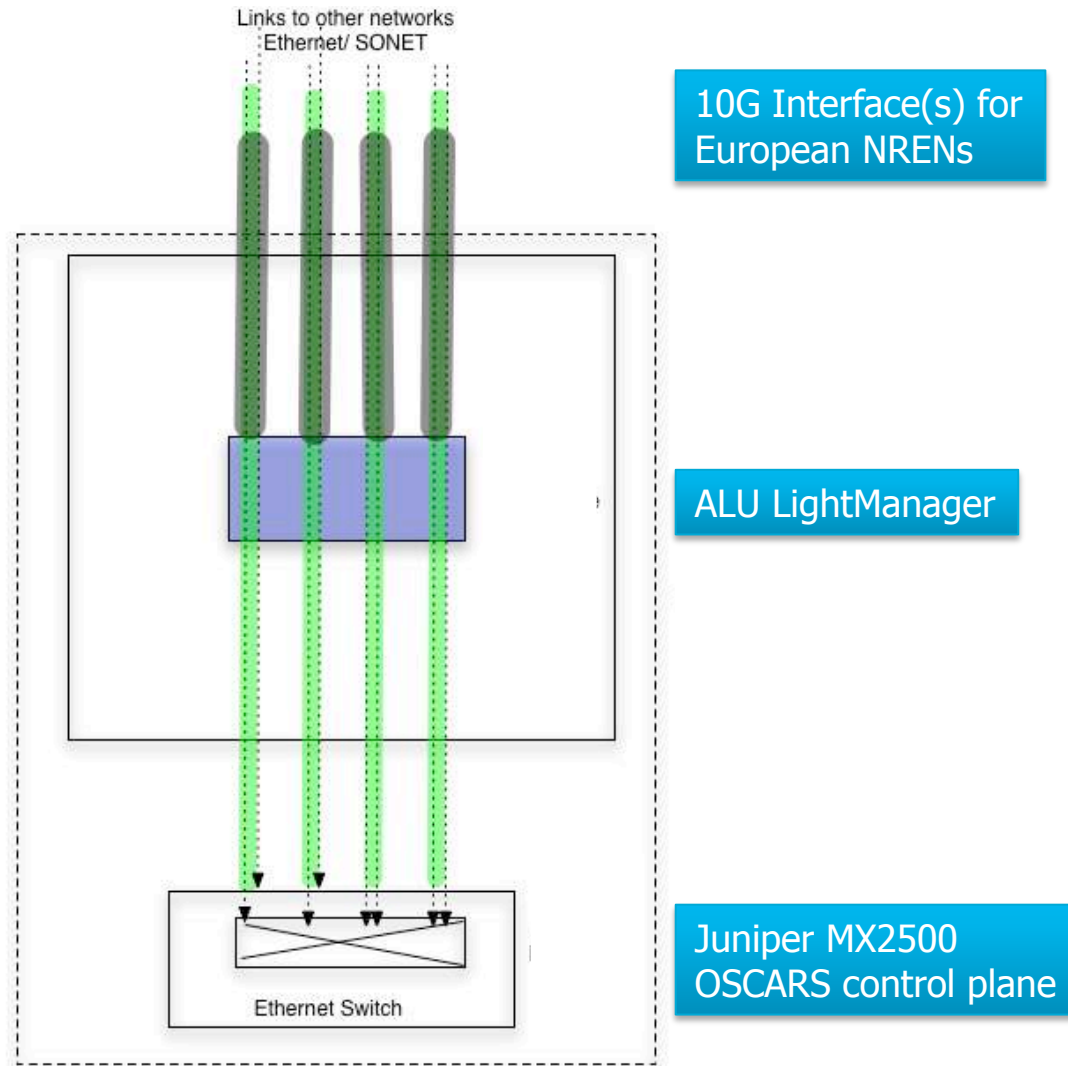






- Sites
 - Hamburg (SURFnet, PIONEER, ...)
 - Additional: Copenhagen, Stockholm
- Hardware
 - Juniper Ethernet – EX 2500 / EX 4500
 - 10G (1G) Ethernet attach, optical transport
- Software
 - OSCARS (Ethernet switching / MPLS transport)
- Facilities
 - NREN Interconnect in Hamburg
 - Transit across NORDUnet IP to Nordic NRENs / pilot users / international partners
- Users
 - NEXPRESS – European eVLBI project

Hamburg VLAN switching



- SONET Connection to remote Network
- Ethernet Link using a subset of SONET
- VLAN carried in Ethernet Link

10G Interface(s) for European NRENs

ALU LightManager

Juniper MX2500 OSCARS control plane



- Networking
 - OTN switching in Hamburg
 - Dynamic switching on L1 – L2 gear
 - Possible higher-end Ethernet switching gear
- Software
 - OSCARS for L1 – L2?
 - DRAC?
- Nordic NRENs
 - Transit
 - Inter-domain circuit routing
- Dynamic circuit interconnects at other NORDUnet location