

Gerben van Malenstein

15th Annual Global LambdaGrid Workshop

September 29, 2015 – Prague, Czech Republic



NetherLight

- GLIF Open Lightpath Exchange operated by SURFnet
 - Vancis, Amsterdam Science Park
 - TeleCity2, Amsterdam





http://www.netherlight.net

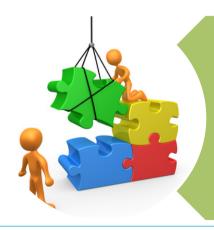


NetherLight



Open Lightpath Exchange

- Research (international)
- Innovation
- Cloud Services



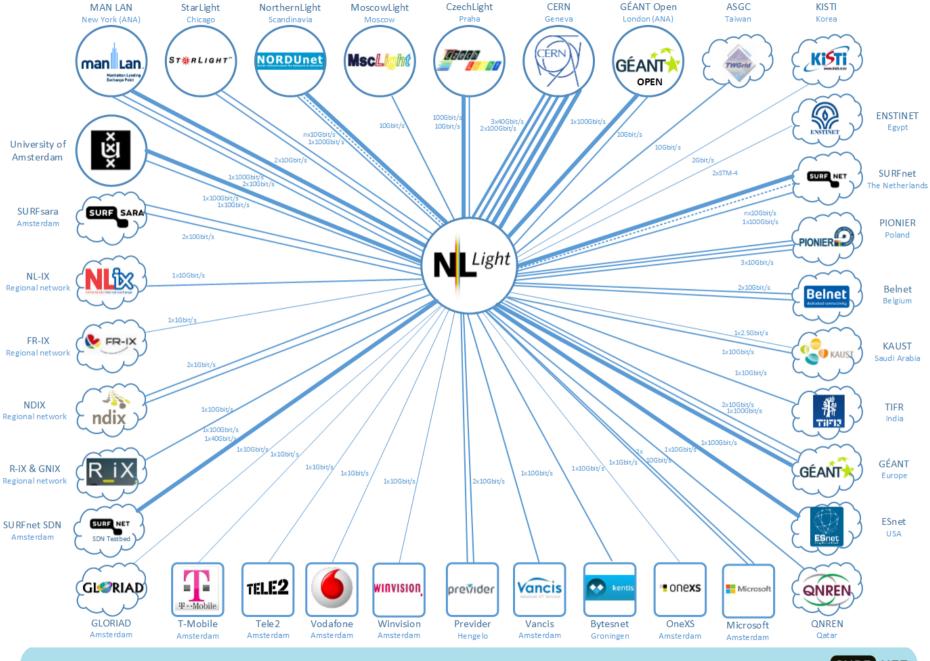
Marketplace

- Suppliers and consumers
- Independent
- Stimulate market conditions

100GE platform

- Ciena 8700 w/10x 100GBASE-LR4
 - ANA-100G, CERN, GÉANT, GÉANT Open London, NORDUnet, UvA, ESnet, CESNET, SDN testbed, SURFnet
- 1x 40GBASE-SR4
 - SDN testbed
- 40x 10GBASE-LR
- MTOSI support for BoD
 - Automated GOLE





2015

- Trans-Atlantic migrations of services from OC192 to 100GE, decommissioning OC192 links
- Facilitating 100G connection requests
- Working with PSNC on HAM-FRA-CERN
- Piloting connectivity between Microsoft Azure ExpressRoute and NetherLight (2x10GE) since August
- Automated GOLE
- Open Cloud eXchange (OCX) within GN4
- SDN/SDX/NFV demonstration at SC'15



2016

- Expanding 100G density at both locations
- Further automation of service provisioning
 - Default mode of operation from NOC to self-service via BoD/portal
 - Including SDX features: full L2/L3 header control by connected parties on the mid term
 - Further experimenting with NFV
- Ability for people to discover and request services via 'online one-stop-shop'
- perfSONAR node to production





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