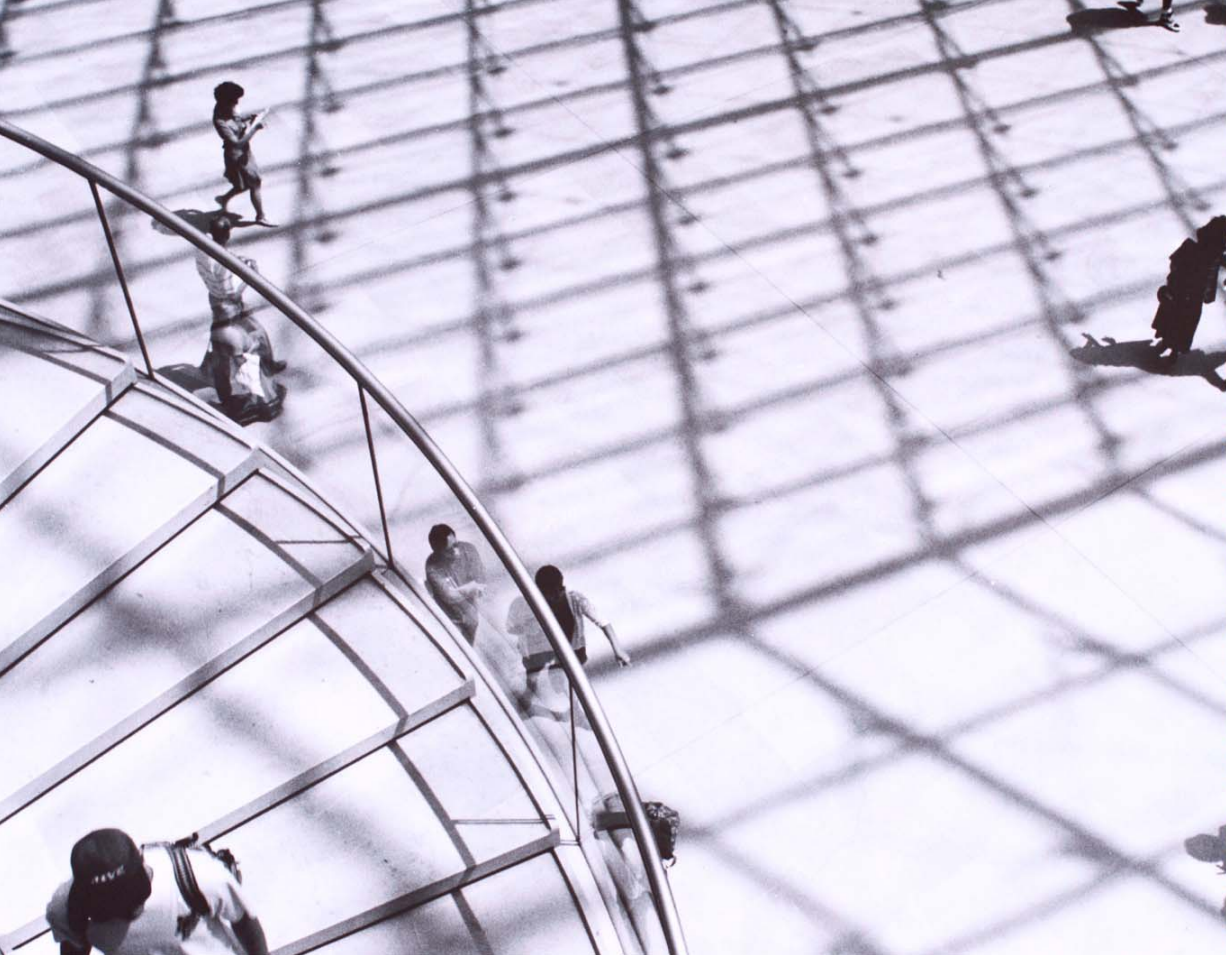




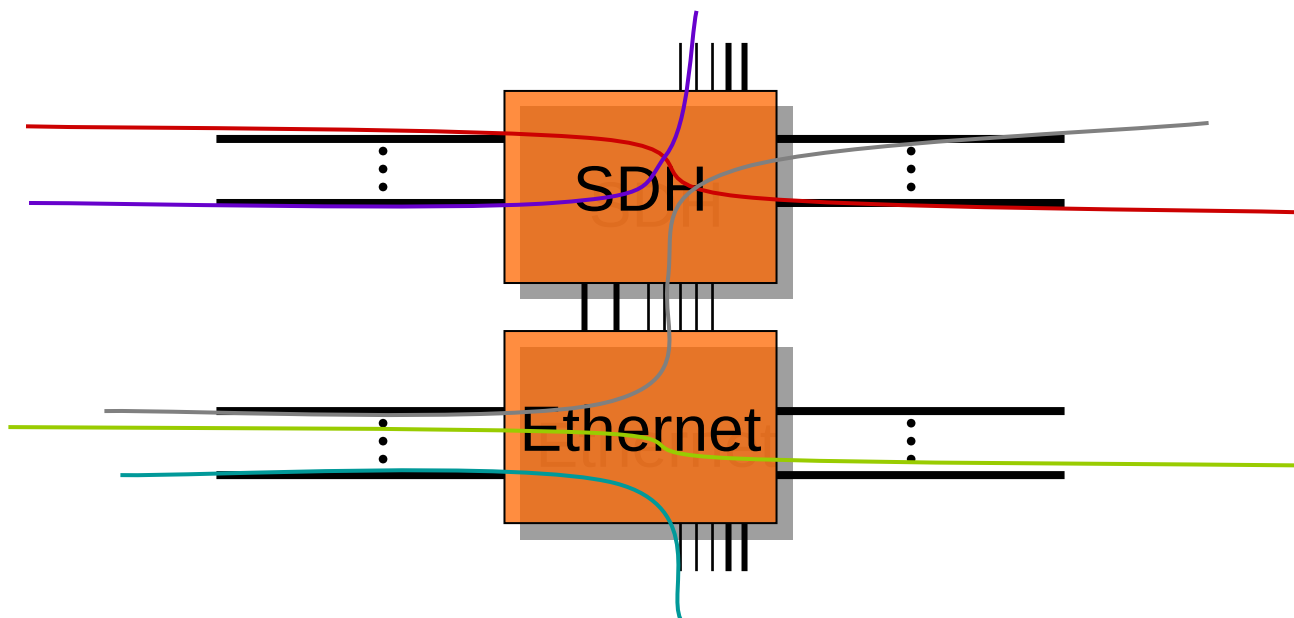
NetherLight update

Wouter Huisman

October 2008

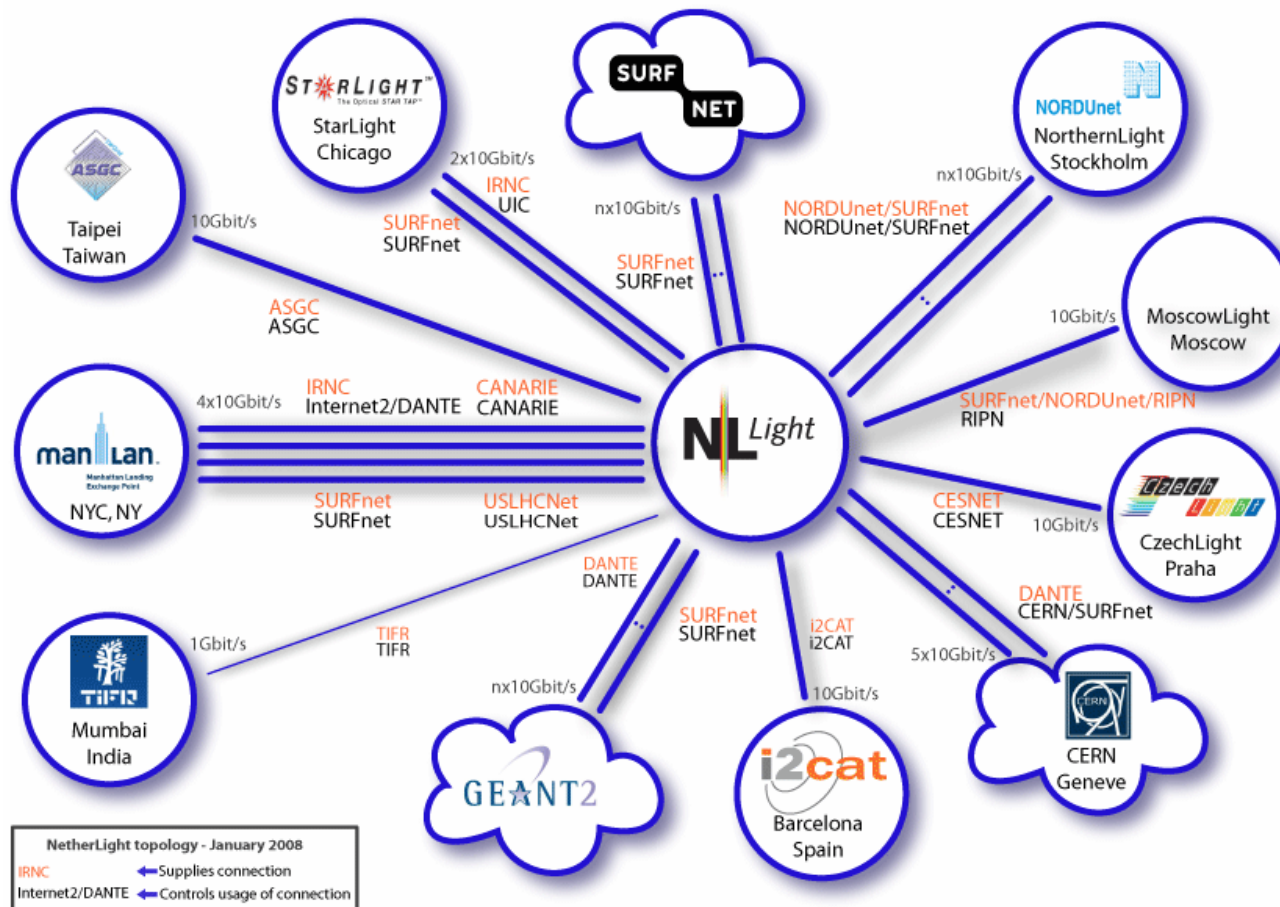
NetherLight Services

- Lightpath using SONET/SDH transport layer
- VLAN based connections using Ethernet layer 2
- Or combined service



— 1G
— 10G

NetherLight Connectivity





Global Connectivity Tender



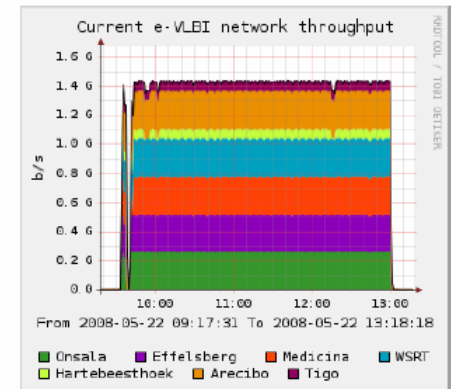
- 10G wavelengths bundle (optional 40G)
 - Amsterdam-MANLAN: 3 & 1 optional
 - Amsterdam-StarLight: 2 & 1 optional
- NLR, NSF/IRNC, Nordunet joined this tender
- Global Crossing links between AMS-NYC (1) and AMS-CHG (2) are replaced with new contracts.

Projects

- LOFAR / JIVE 10G from Aachen and Hamburg
- Cosmogrid Tokyo – Amsterdam
- Study on PBB implementation
- LHC: SARA – NDGF link operational
- JIVE: Terena demo



The recent additions of Arecibo (Puerto Rico), Effelsberg (Germany), Hartebeesthoek (South Africa) and TIGO (Chile) telescopes to e-VLBI capabilities of the European VLBI Network means a tremendous improvement in sensitivity for detecting the faintest cosmological sources. Image: JIVE



Plot showing throughput from all telescopes. Data was streamed at 256 Mbps from five stations and 64 Mbps from two stations for a total of 1.44 Gbps. Image: JIVE

Services Templates

Microsoft Excel - Netherlight_ServiceRequestForm-EXAMPLE-v1.1.xls

File Edit View Insert Format Tools Data Window Help Adobe PDF

Helvetica 10 85%

C31 no

A	B	C	D
1	SERVICE REQUEST		
2	STATUS:		
3	REQUEST ID:		
4			
5	Requesting domain Contacts		
6	Requesting Domain	NORDUnet	
7	Contact details person requesting	Lars Fischer	
8	Service contact for changes	example@nordunet.net	
9	Service contact for planned works	noc-example@nordunet.net	
10	Service contact for incidents	noc-example@nordunet.net	
11			
12	Customer Contact Endpoint A		
13	Contact Name	Manager Surgery Trondheim Hospital	
14	Contact email	example@stah.no	
15	Contact telephone	+11 22 33445 789	
16	Customer Service Contact Endpoint A		
17	Service contact name	ICT department Trondheim Academic Hospital	
18	Service email	ict@stah.no	
19	Service telephone	+11 22 33445 790	
20	Customer Contact Endpoint B		
21	Contact name	Manager Surgery Seoul Academic Hospital	
22	Contact email	example@seah.kr	
23	Contact telephone	+12 34 56987	
24	Customer Service Contact Endpoint B		
25	Service contact name	ICT department Seoul Academic Hospital	
26	Service email	ict@seah.kr	
27	Service telephone	+12 34 56987	
28			
29	Connection		
30	Bandwidth required	1 Gbps	
31	Service Classification: Production	no	
32	Endpoint A	Oslogro	
33	Endpoint B	Helsberg	
34	Required from date	3rd May 2008	
35	Required until date	31st December 2009	
36	Networks involved (please provide complete end-to-end path)	Nordunet - NetherLight - StarLight - KPLight	
37	More information (optionally) (eg VCAT/CCAT, preferred VLAN ID)		
38	Please configure as VCAT circuit, 7 VC-4		

Example

Example Service Request form by Nordunet to request a LP service from Trondheim to Seoul for a medical application.

this email address is added to users@netherlight.net. Preferably this is a group email address, or multiple email addresses

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No: support is provided during working hours, the service is flagged with MDD (Next Business Day)
Yes: 24x7 support is provided

- Contact noc@netherlight.net for support
- Contact admin@netherlight.net for new services

noc.netherlight.net

- New circuit naming
 - Id _ startnode – endnode(comment field)
 - NBD – Next Business Day support
 - [5006LE_NOTRD-KRSEL\(NBD-Trondheim-Korea\)](#)
- Inventory tool, circuit per interface

Status Alarms Inventory Network

Show [all](#) lightpaths.

Show lightpaths that are [down](#) only.

	status	Lightpath ID
1	UP	2111LE_U102-Asd01_SURFnet-UvA(NBD-4kTst)
2	UP	2116LE_U101-Asd01_SURFnet-UvA(NBD-4kTst)
3	UP	2161LE_Nh01-Asd01_SURFnet-UvA(NBD-HDPMnet)
4	UP	5000LE_CNSHA-NLDGL(NBD-SHAO-JIVE)
5	UP	5002LE_TWHSZ-CZPRG_NL(NBD-TWAREN-CESNET)
6	UP	5003LE_NLAMS-CHGVA(NBD-Mumbai-CERN)
7	UP	5004LE_CHGVA-CAVAN(TRIUMF-LHCOPN)
8	UP	5005LE_CZPRG-USCHI(NBD-Brookhaven-BNL)
9	UP	5006LE_NOTRD-KRSEL(NBD-Trondheim-Korea)
10	UP	5007LE_CZPRG-USCHI(NBD-ViLab/VIND)
11	UP	5008LE_CZPRG-KRSEL(NBD-ASnet)
12	UP	5009LE_CZPRG-USCHI(NBD-IoP-FNAL)
13	UP	5010LE_NLAMS-DEFRA(SARA-Deisa)
14	UP	5011LE_NLAMS-CHGVA(LHCOPN-SARA-CERN)
15	UP	5012LE_USNYC-DKKTP(GLIF-PerfSonar)

Status Alarms Inventory Network

Asd001a_tdm3

get lightpaths

Asd001a_tdm3:501/0/1

[5020LE_NLAMS-GEJUE\(NBD-Phosphorus-Viola\)](#)
[5021LE_NLAMS-ESBCN\(NBD-Phosphorus-i2CAT\)](#)
[5028LE_USNYC-NLAMS\(SURFnet-MANLAN-IP\)](#)
[5029LE_CAOTT-NLAMS\(NBD-CRC-Phos\)](#)
[5030LE_GBCOL-NLAMS\(NBD-EssexU-Phos-GN2+\)](#)
[5031LE_PLPOZ-NLAMS\(NBD-Phos-GN2+\)](#)
[5032LE_USCHI-ESBCN\(NBD-IRNC-I2CAT-4K\)](#)

Asd001a_tdm3:501/0/2