

## **Some thoughts on 100G North Atlantic: Onwards, to ANA-200G**

Erik-Jan Bos

CTO Forum – October 30, 2014





## ANA-100G TNC2013 implementation

Version 0.93 – dated May 21, 2013  
(change: LR4 optics @ Stratford)

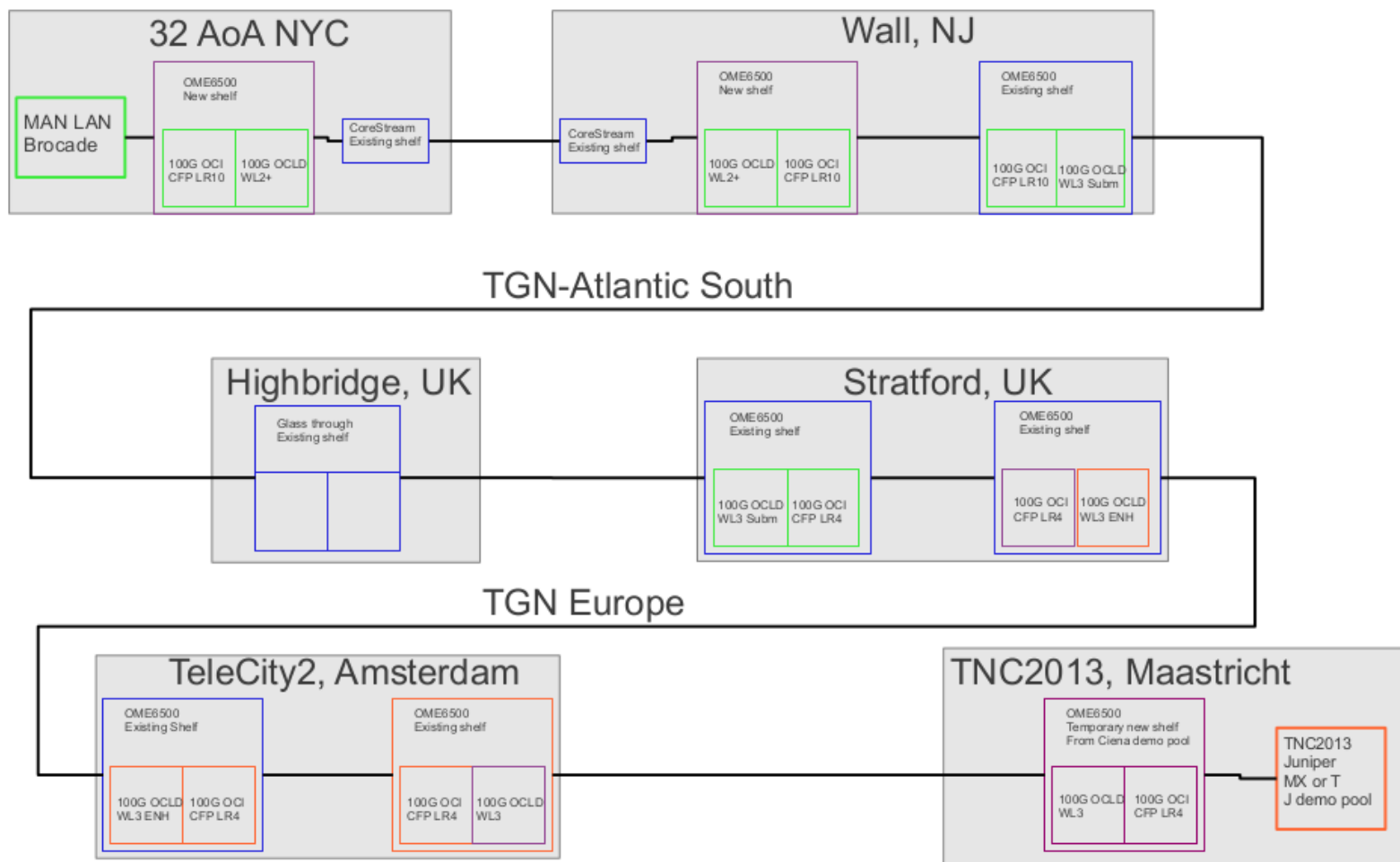
Color coding owner/ordering responsibility:

Ciena = Magenta3

Tata = Blue4

Internet2 = Green7

SURFnet = Orange2





## ANA-200G: 100G Production Ring across North Atlantic for R&E

### Open Exchange Points & Links

- MAN LAN
- WIX
- NetherLight
- GEANT Open London
- Internet2
- TGN-Atlantic South
- NORDUnet/SURFnet
- Hibernia Atlantic

ANA-100G Production Network: A 100 Gbit/s production quality ring across the North Atlantic for Research and Education. Collaborators: Internet2, NORDUnet, CANARIE and SURFnet.



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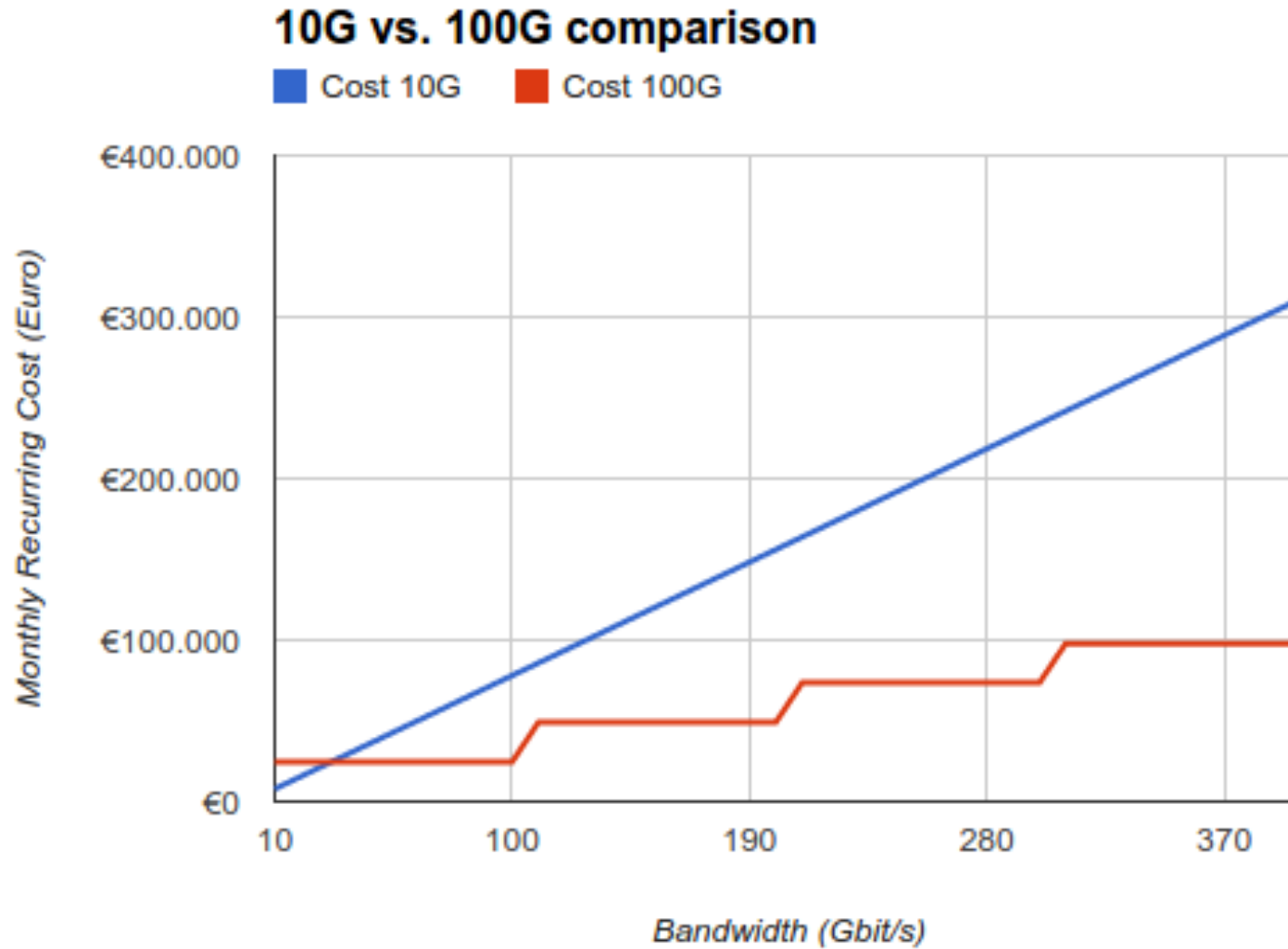
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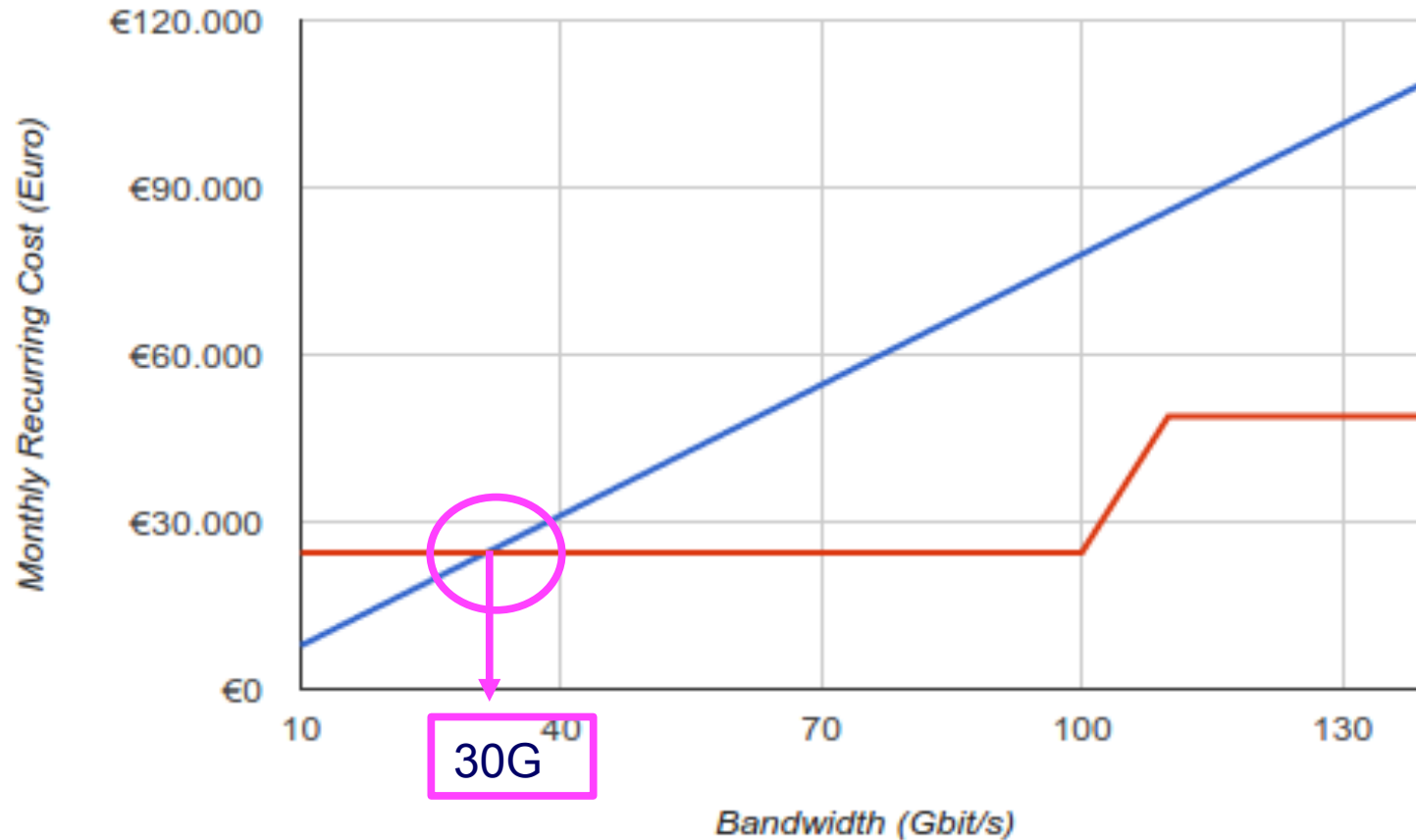






## 10G vs. 100G comparison

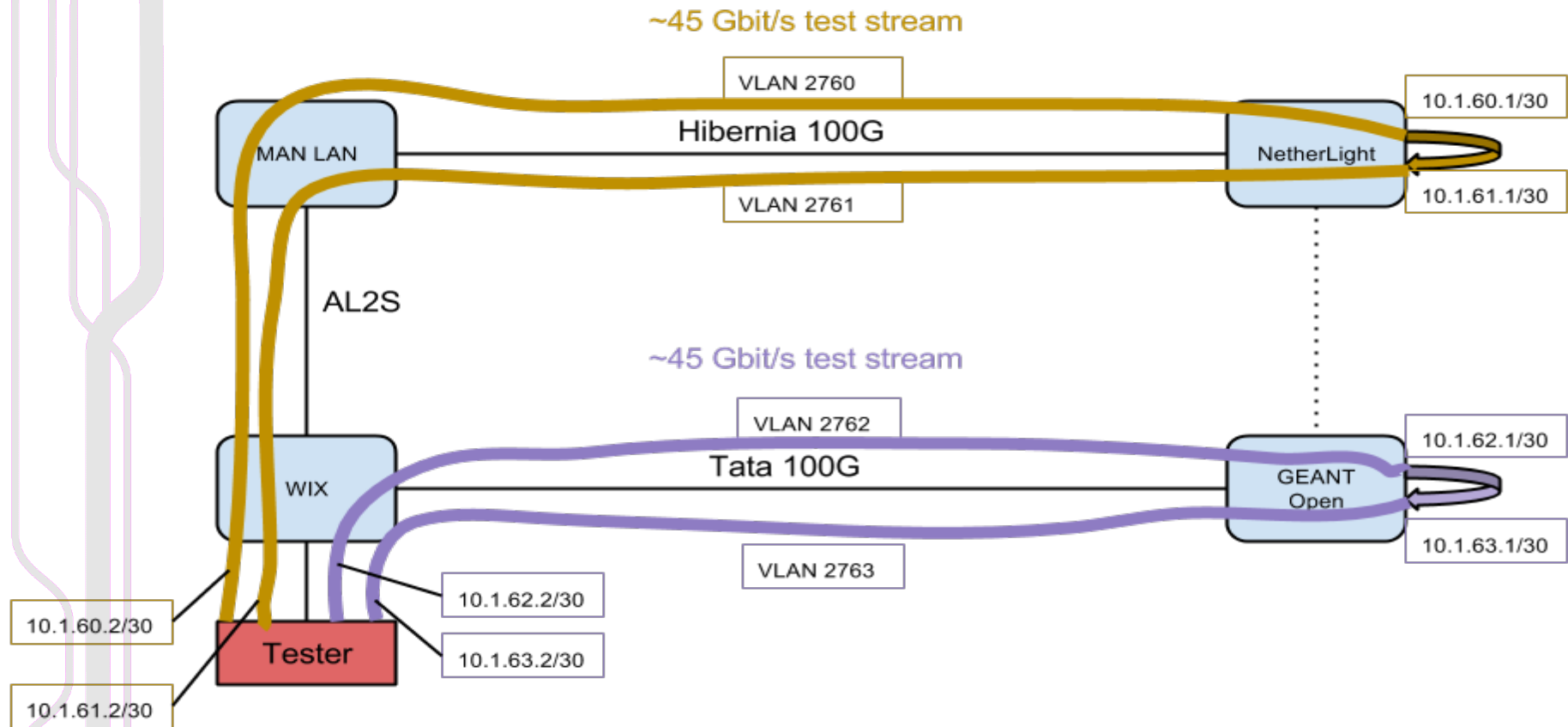
■ Cost 10G    ■ Cost 100G







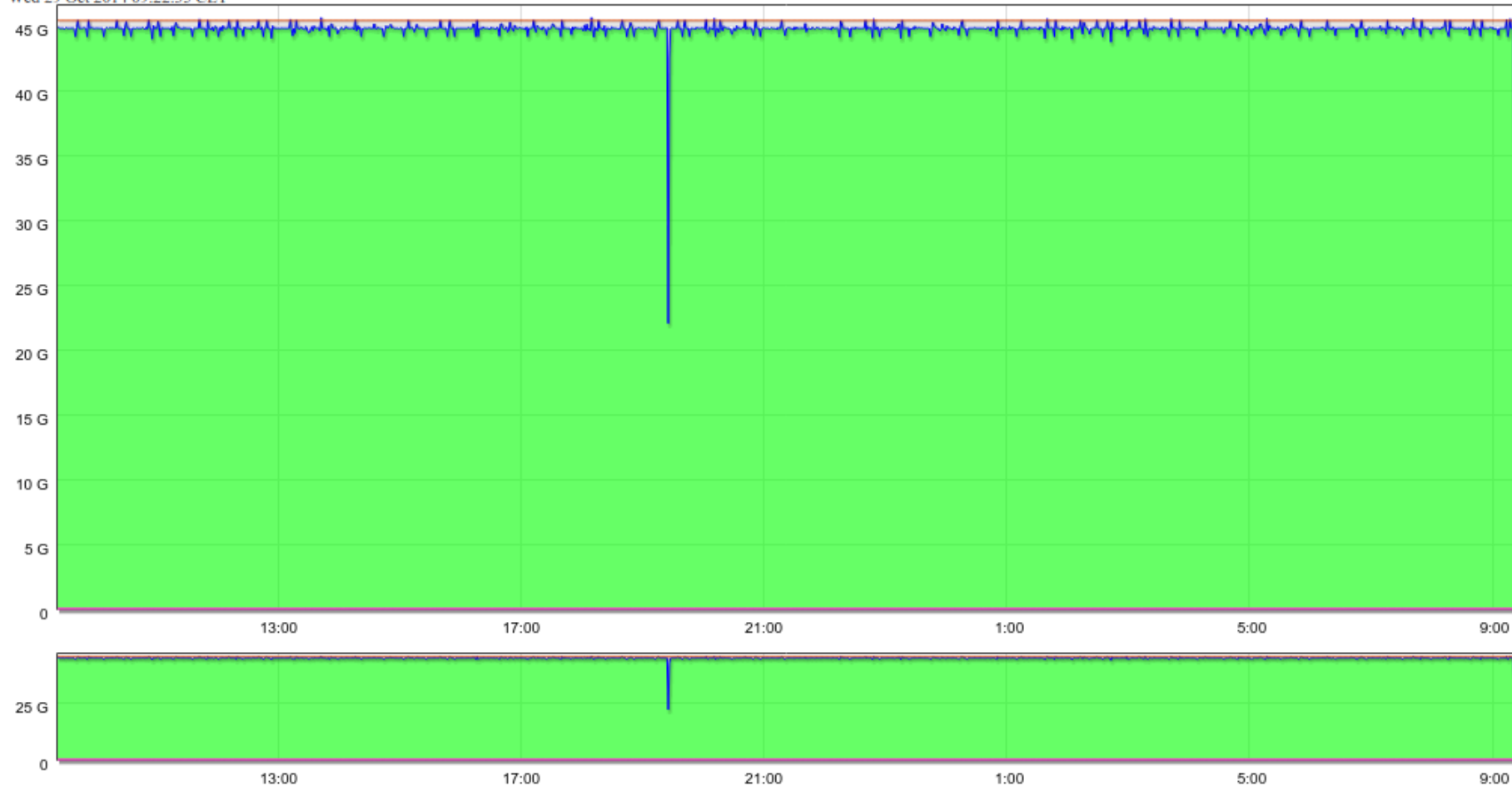
## Acceptance Testing ANA-200G



sw.net.manlan.internet2.edu--ethernet13/1 -- ANA100G Hibernia circuit [PENDING]

Wed 29 Oct 2014 09:22:08 CET to Thu 30 Oct 2014 09:22:18 CET

Wed 29 Oct 2014 09:22:35 CET



**Inbound Packets per Second**

Average: 1.38 M

Maximum: 1.41 M

Last: 592.32 k

Crosshair: 1.38 M

**Inbound Bits per Second**

Average: 44.74 G

Maximum: 45.62 G

Last: 19.19 G

Crosshair: 44.78 G

**Interface Status**

Average: 1

Maximum: 1

Last: 0.43

Crosshair: 1

**Outbound Bits per Second**

Average: 44.74 G

Maximum: 45.62 G

Last: 19.19 G

Crosshair: 44.78 G

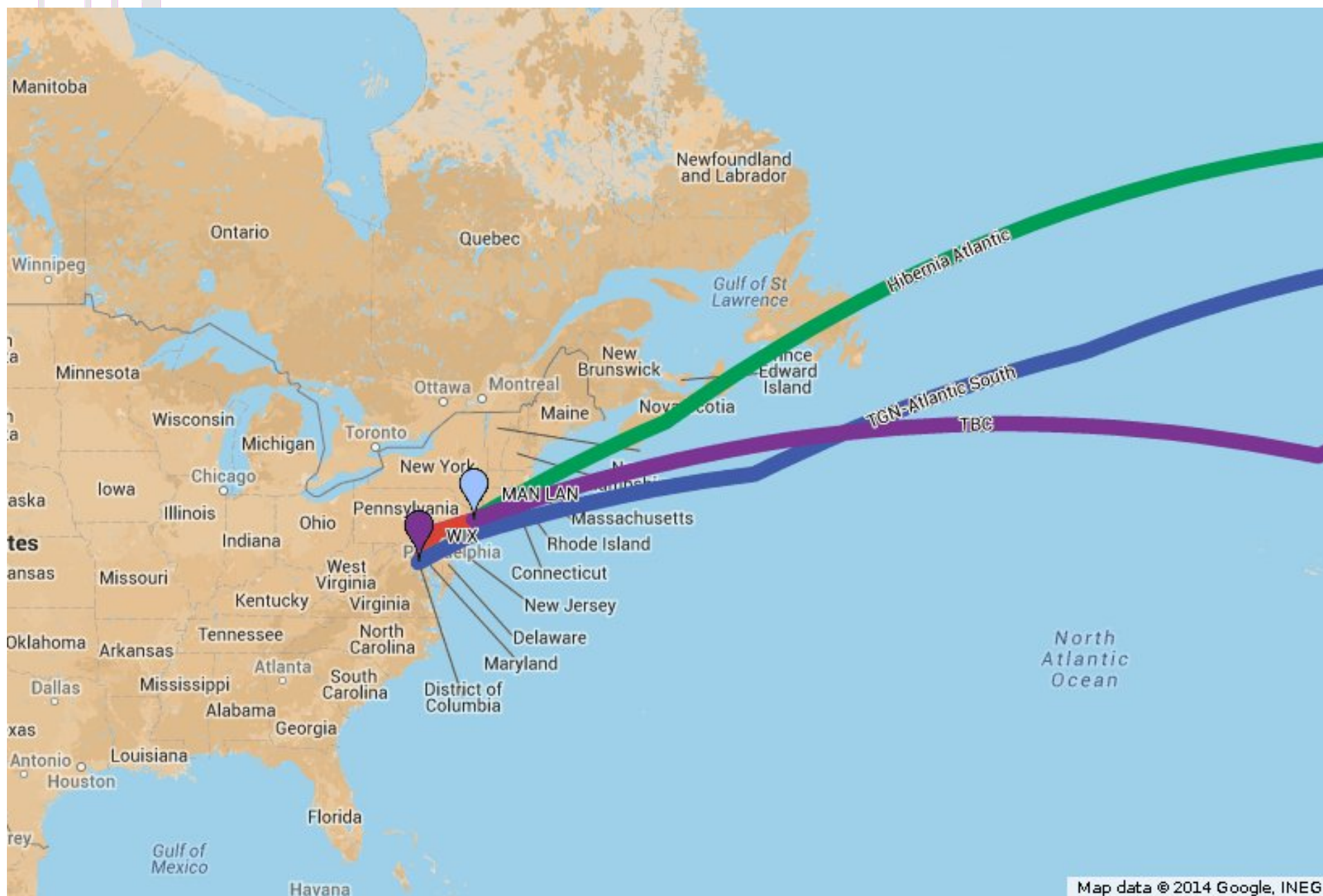






## ANA-300G (European side)





Thank You!

