

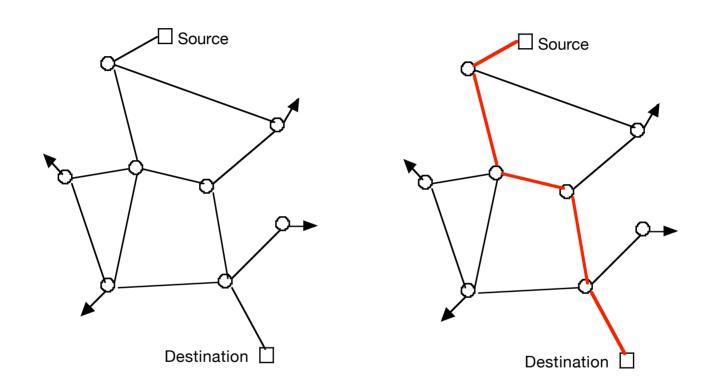
An Overview of UKLight and ESLEA

Clive Davenhall (clive@nesc.ac.uk)

13 May 2005

PPARC e-Science Summer School 2005

Packet-Switched and Circuit-Switched Networks



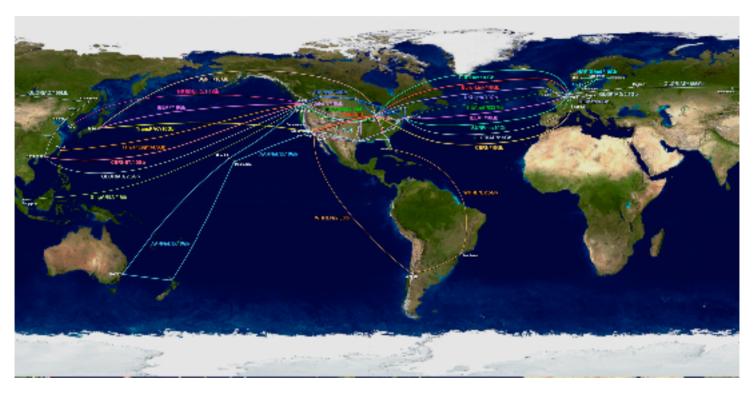


Global Lambda Integrated Facility

- Founder members:
 - StarLight in the US,
 - NetherLight in the Netherlands,
 - CANARIE in Canada,
- now many more members,
- UKLIght is the UK contribution,
- http://www.glif.is/

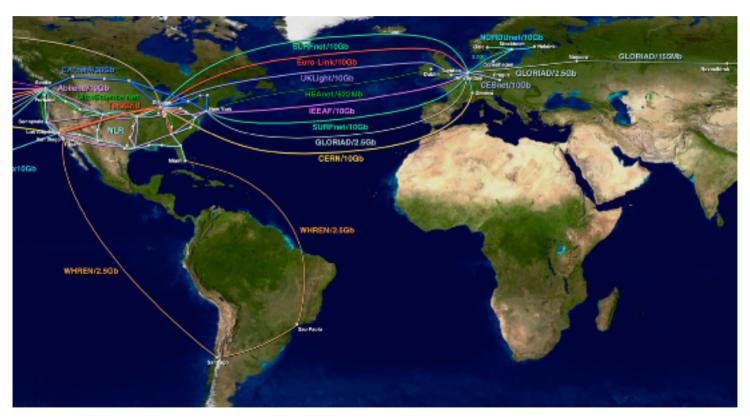


Global Lambda Integrated Facility



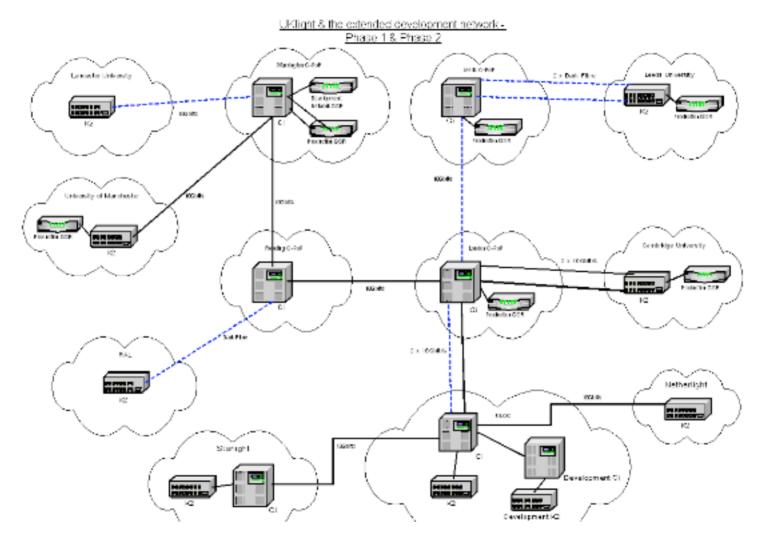


Global Lambda Integrated Facility





- 10 Gbit/sec connections from hub in London to StarLight and NetherLight,
- a collection of 1 Gbit/sec links from London hub to selected points in the UK,
- provides dedicated, switched-circuit connections for approved projects,
- managed by UKERNA and funded by HEFCE.



UKLight and ESLEA, May 2005.

UKLight Projects

- ESLEA (Exploitation of Switched Light-paths for e-Science Applications)
 http://www.eslea.uklight.ac.uk
- MASTS (Measurement at All Scales in Time and Space) http://grid.ucl.ac.uk/MASTS.html
- 46 PaQ (IPv4 + IPv6 Performance and QoS) http://grid.ucl.ac.uk/46PaQ.html
- and others...

ESLEA

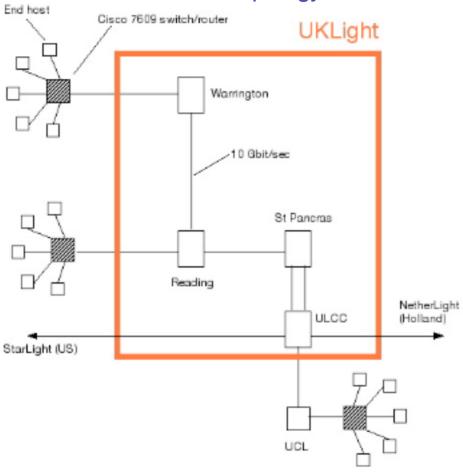
- Investigate the use of switched-circuit networks and demonstrate that they offer concrete advantages in real application areas.
- Principal Investigator: Prof. Peter Clarke (NeSC).
- Institutions:
 - University of Edinburgh,
 - University College London,
 - University of Manchester,
 - University of Oxford,
 - University of Lancaster,
 - Rutherford Appleton Laboratory,
 - Daresbury Laboratory.

ESLEA Sub-Projects

- Exploitation sub-projects:
 - High-energy physics,
 - eVLBI,
 - RealityGrid,
 - e-Health.

- Capability development:
 - control plane software,
 - protocol development.

ESLEA Topology



Further Information

- UKLIght:
 - URL: www.uklight.ac.uk
 - David Salmon (UKLight Mananger): D.Salmon@ukerna.ac.uk
- ESLEA:
 - URL: www.eslea.uklight.ac.uk
 - Colin Greenwood (ESLEA Project Manager): coling@nesc.ac.uk
 - Clive Davenhall: clive@nesc.ac.uk

- GLIF
 - URL: www.glif.is