

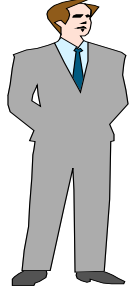
E2E Lightpath Services Workshop for Campuses

April-May 2012

More...

Regional networks
Metropolitan networks
Campus networks
Access networks
LANs

IT managers



Policy makers



Application designer
developer



Campus IT stuff



NREN

Networkers

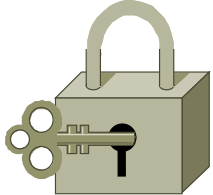


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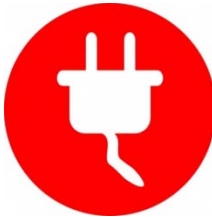


Dynamic E2E connection service

IP connectivity



Security policy



Standards



Business models

USER

Europe – SURFnet, Netherlands



Enlighten your Research

A contest for researchers organized by SURFnet.

Objectives:

- To create awareness among researchers about the advantages that lightpaths can offer
- To scout for innovative research projects that may benefit from lightpaths
- To learn from the implementation process
- To create best practices

Europe – SURFnet, Netherlands



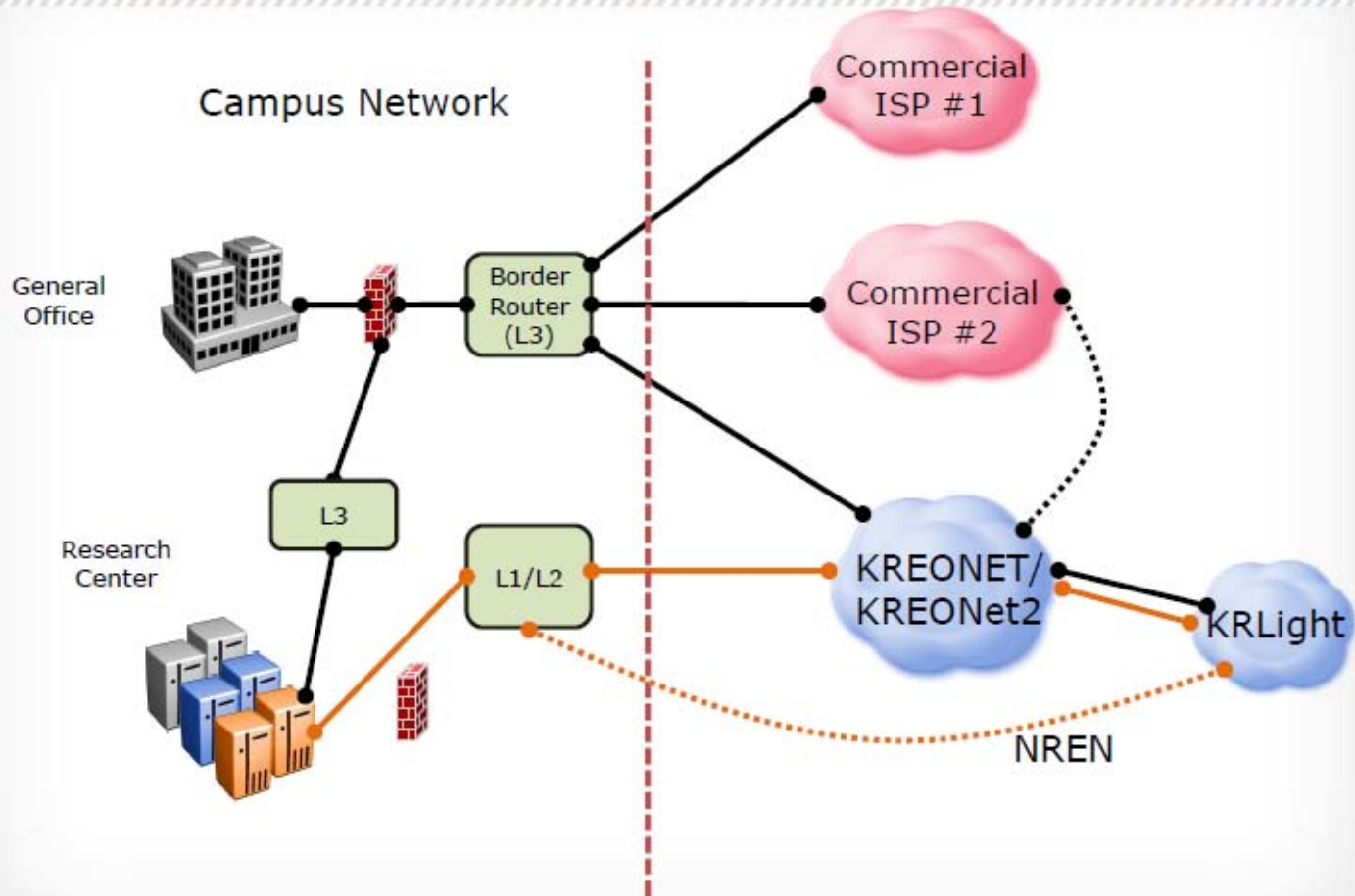
Ideas for 2012



- Intensify collaboration with other e-Infrastructure partners
- No EYR4, but pilots with DLP in SN7
- Campus evaluations (technical and financial)
- Evaluate actual usage
- On-site events to promote best practices
- Stimulate sharing existing lightpath ports
- Ambassadors

Asia – KISTI, South Korea

Case 2.



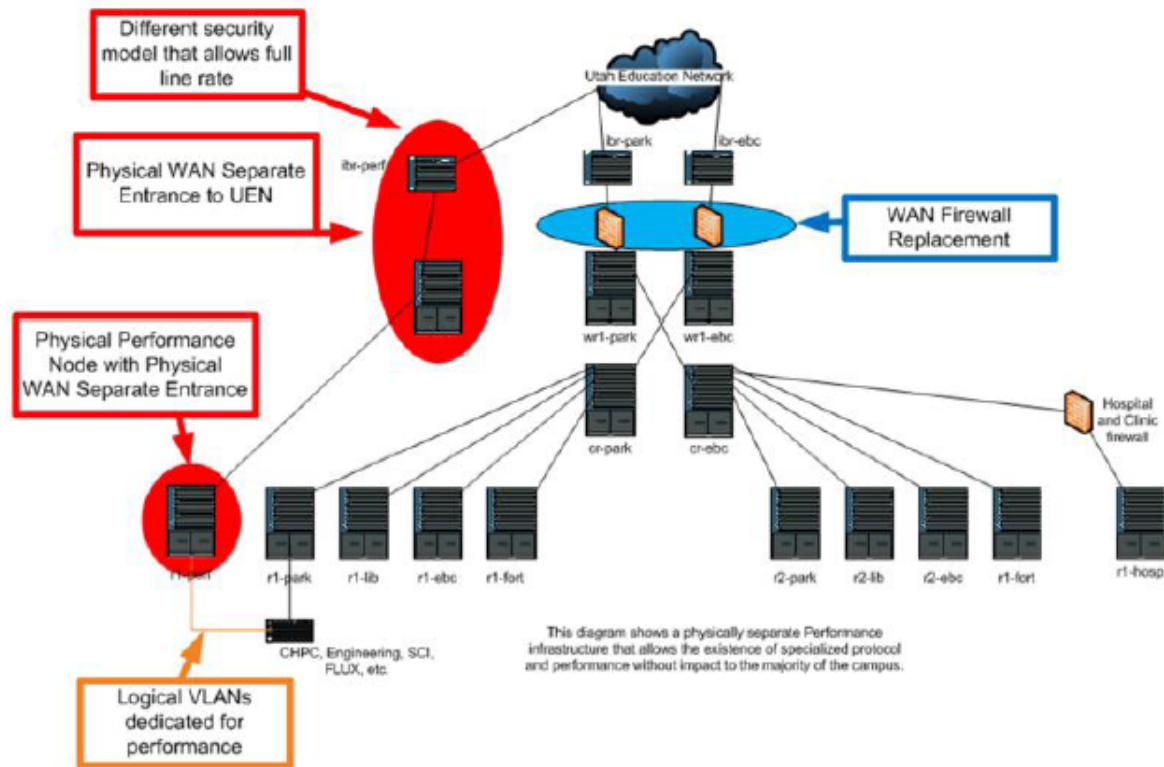
Asia - KISTI, South Korea

What we need...

- Educational program of Lightpath technology and its use cases for IT staffs and network staffs of campus network
- Description or Communication method with formal network diagram that represent at least L0 ~ L3
- Traffic, fault and performance monitoring system at each campus network
 - ✓ PerfSONAR, MRTG, Pinger,...
- (Ticket based) Information Sharing System between NREN and Campus Network
 - ✓ For collaboration, fault isolation and troubleshooting of lightpath
 - ✓ KREONET-IMS (KREONET Information Management System)
- Guideline for establishment lightpath with considering security, performance and so on

Americas – Uni of Utah, US

WHAT MIGHT THE FUTURE BE, IF FUNDING ALLOWS?



1/19/2012

Jan 2012 Internet2 Joint Techs Performance Campus Panel

Americas – Uni of Utah, US

ISSUES ALONG THE WAY

7yr firewall hardware

Are you testing IPv4 or IPv6 with your active measurement infrastructure?

What really is the path MTU?

Ability to release the bottlenecks at University can potentially flood upstream provider – Make sure you are collaborating tightly!

