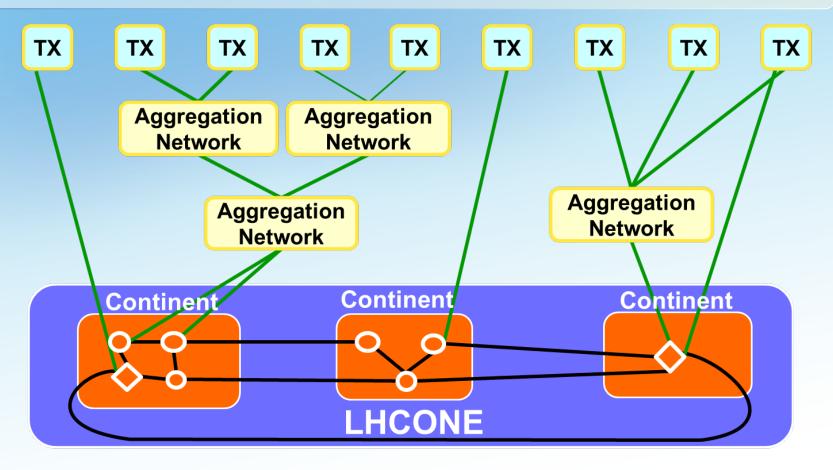


June 13th 2011 – LHC OPN / LHCONE Meeting Eric Boyd, Internet2 Deputy Technology Officer

LHCONE – North American Components

LHCONE High-level Architecture



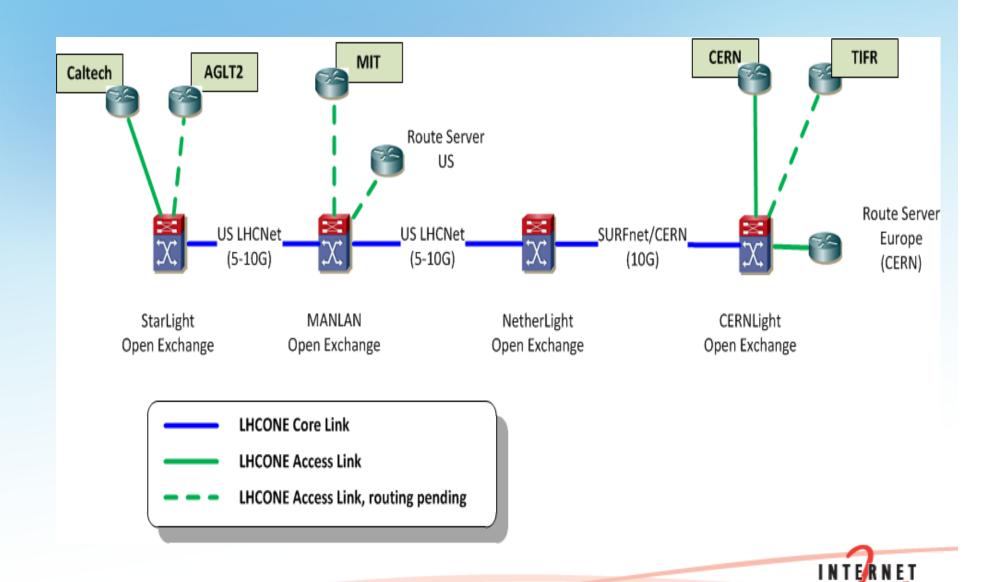
Single node Exchange Point
 Distributed Exchange Point



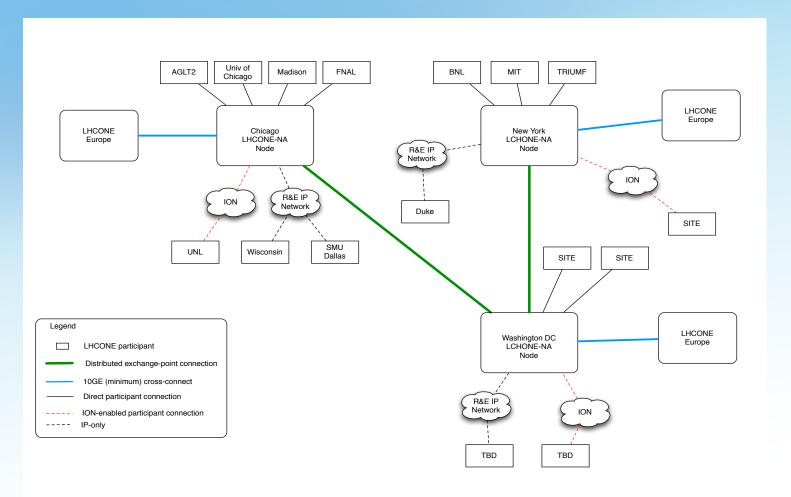
LHCONE Prototype

- The planned prototype includes three nodes in North America:
 - Chicago (Starlight)
 - New York (MAN LAN)
 - Washington DC (MacLean)
- For the prototype, these nodes will be interconnected via the existing Internet2 IP Network by a combination of VPLS and L2 VPN overlays on the existing backbone circuits.
 - Internet2's IP network generally has 9 Gbps of available capacity on the direct interconnect between Chicago and New York so a potential implementation would have roughly 9 Gbps of available best-effort traffic at the outset.
 - After the roll-out of the prototype, there is also the potential to provide a dedicated backbone circuit to provide 10G of capacity (in addition to or in lieu of the 9 G of best effort traffic), if there is demand and funding after the prototype is rolled out.



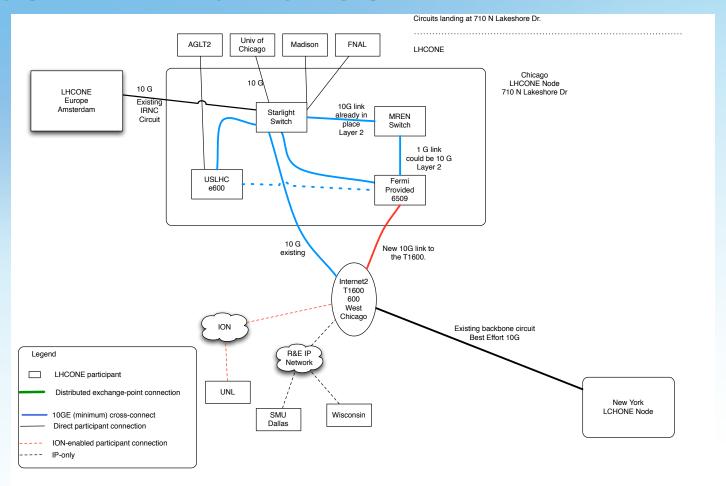


LHCONE-NA: NORTH AMERICAN COMPONENTS



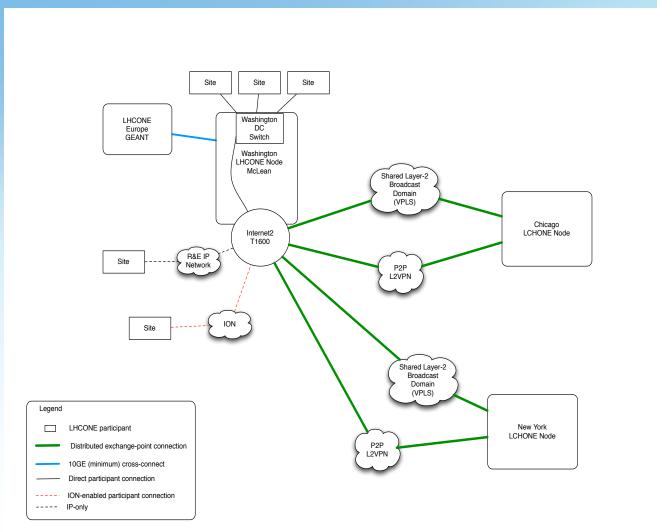


LHCONE-NA: CHICAGO



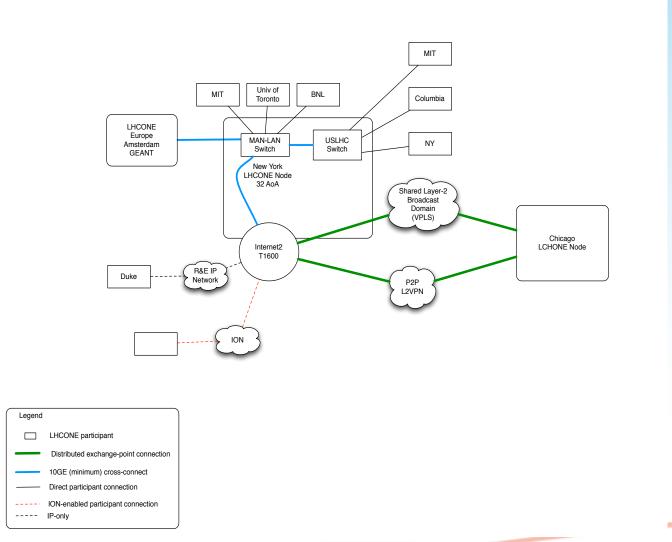


LHCONE-NA: WASHINGTON DC





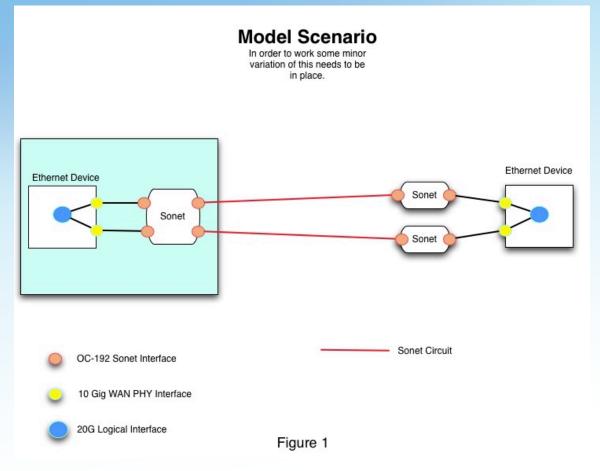
LHCONE-NA: NEW YORK CITY







LHCONE: NORTH AMERICAN / TRANSATLANTIC INTEGRATION







NDDI & OS3E

June 2nd 2011, NTAC Update
Matt Davy, InCNTRE Director and Indiana University Chief Network Architect
Eric Boyd, Internet2 Deputy Technology Officer

For more information, visit http://www.internet2.edu/nddi