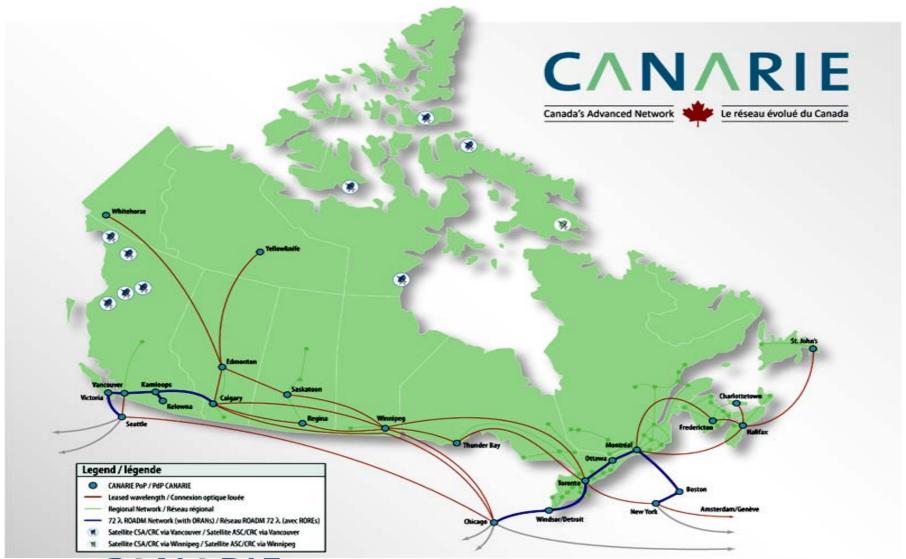
# CANARIE

# **CANARIE** network Update

Thomas Tam – thomas.tam@canarie.ca CANARIE Inc – <u>www.canarie.ca</u> January 20, 2008

#### **CANARIE Network**





#### **SONET** infrastructure

#### > CANARIE-lit wavelengths

were used within the eastern and western ROADMs footprint.

#### > Carriers-lit wavelengths

 are required between the geographic expense of the Eastern and Western ROADMs and eastward beyond the Montreal PoP.

#### > Swapped wavelengths

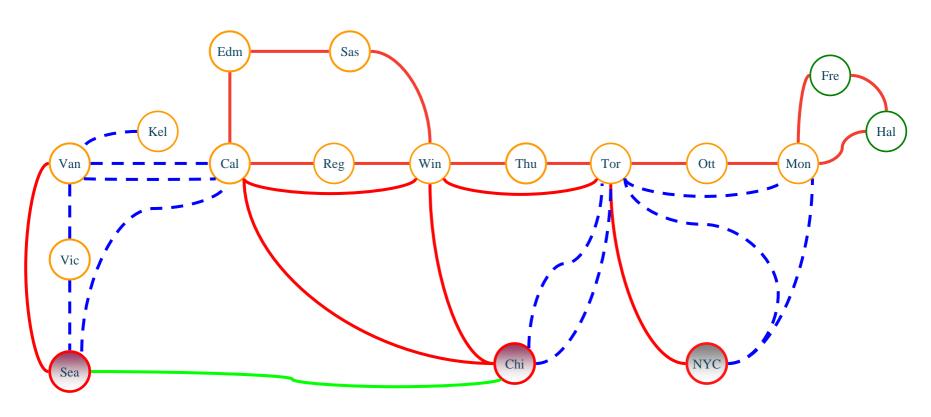
- Wavelengths swap with NLR based on an algorithm that uses capacity-distance product equivalency
- NLR provided a Seattle-Chicago 10G wave
- CANARIE provides 4 x Boston-New York 10G wavelengths and 1 Boston-Chicago 10G wave.







### **SONET** infrastructure





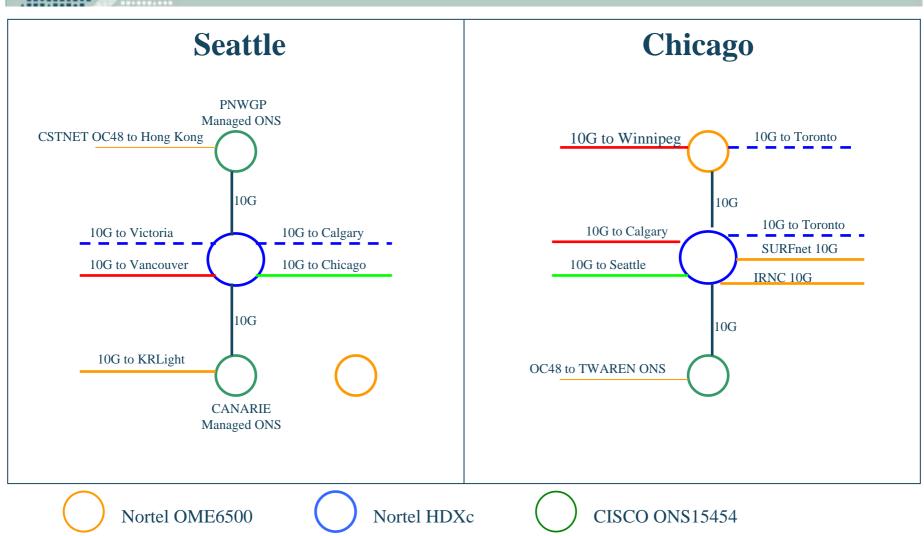






ROADM Waves ——

# Seattle and Chicago GLOEs



Swapped Wave

Other Waves or circuits

Carries Waves



#### **GLOE** activities

- **High Performance Digital Media network testbed (HPDMnet)** 
  - Joe Mambretti started the initiative back in April, 2007
  - Explore new L1/L2 capabilities that provide supports on large scale HPDM service, i.e. capitalizing on the opportunities related to using lightpaths - optical multicast
  - Optical multicast experiments has been demonstrated in for past few months – Prague, e-challenge, ArtFutura and SC07.
  - Joe Mambretti and others are working on architecture and functional documents for the HPDM testbed.
- > TL1 tool kit development, to provide similar functionalities as the Netherlight lightpaths status page.
- **UCLP** development for GLOE is in process.







# **CANARIE** network update

## **Questions?**



