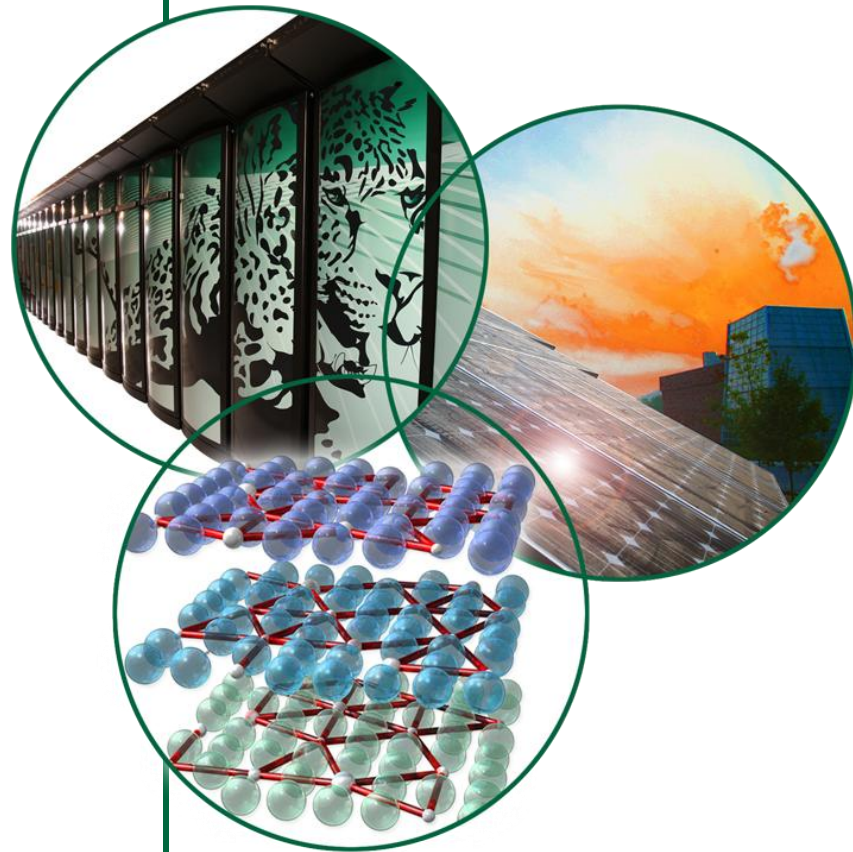


ORNL Site Report

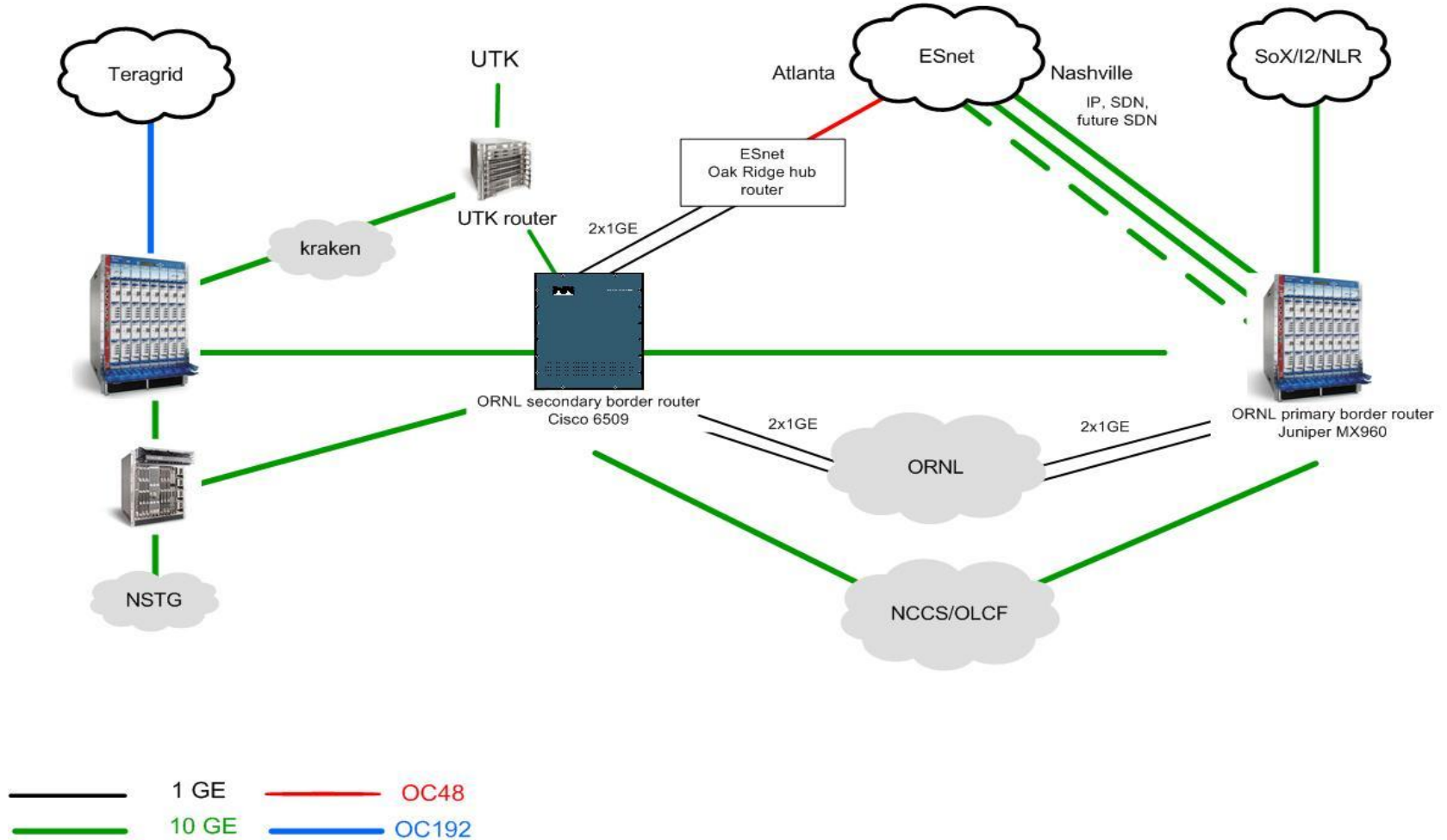
ESnet Site Coordinating
Committee

July 2009

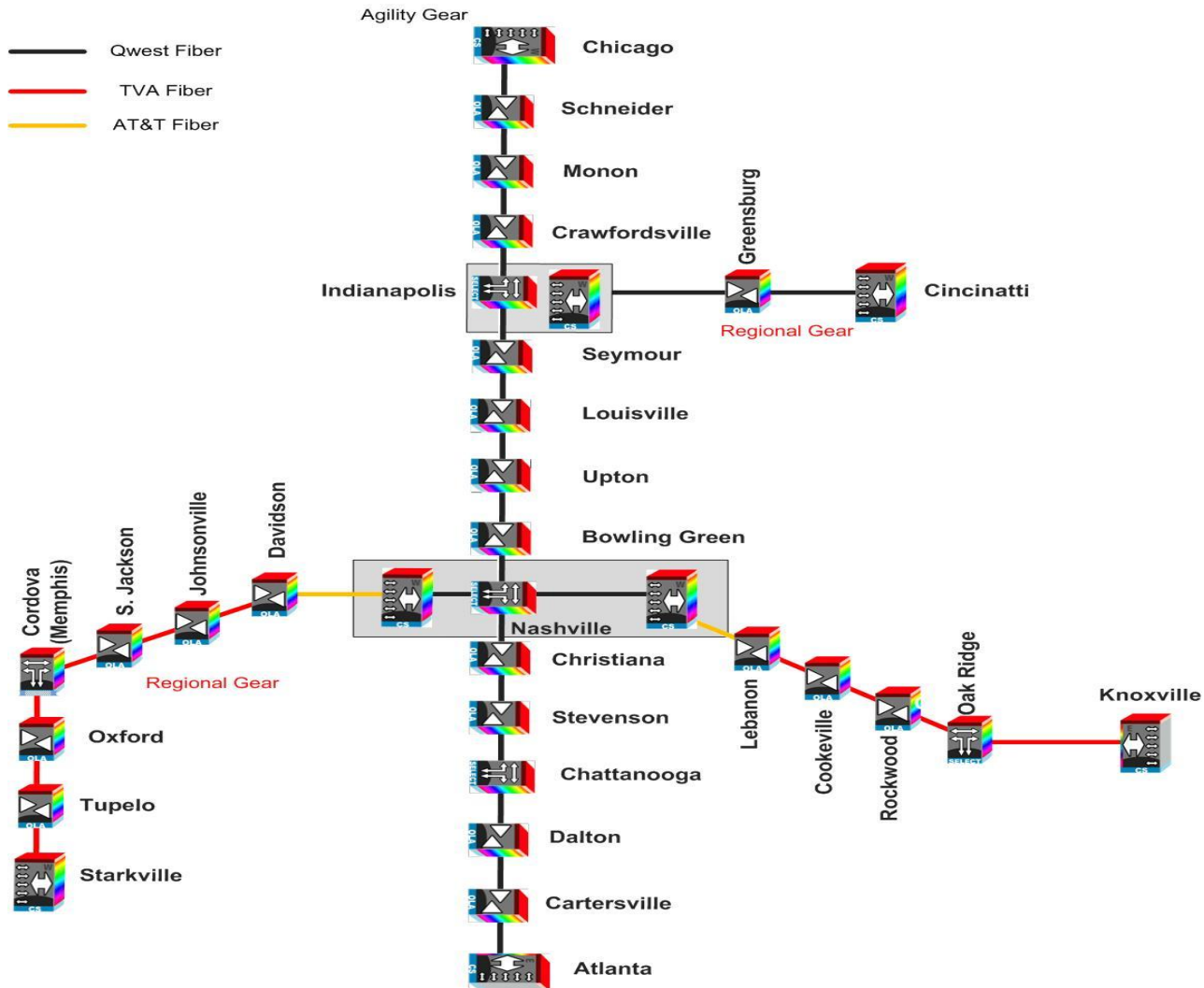
Susan Hicks



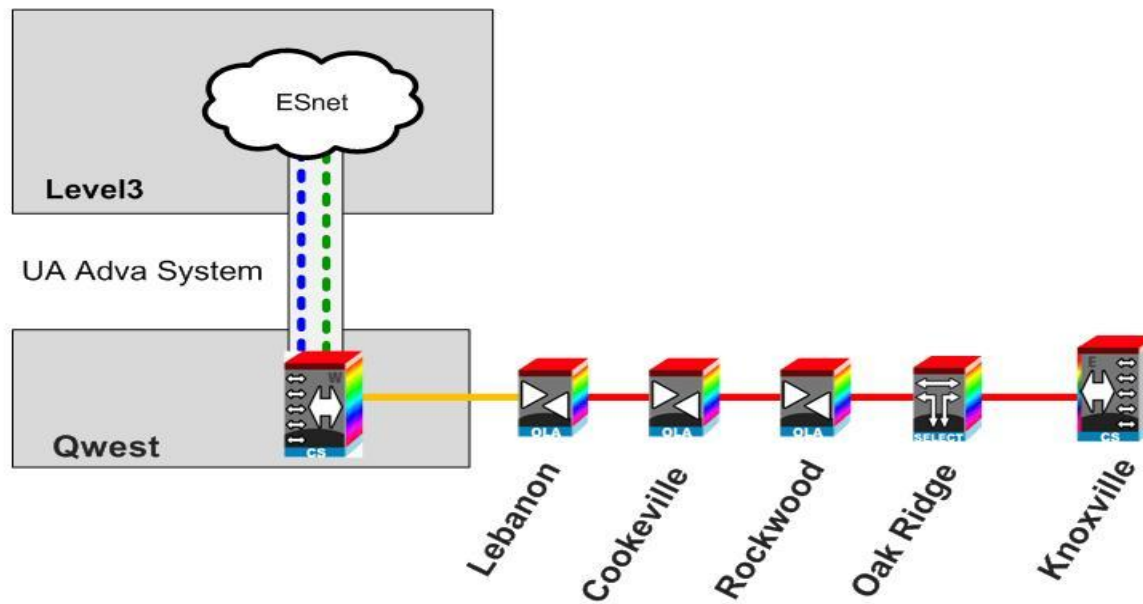
ORNL Network Overview



ORNL Wide Area Optical Infrastructure

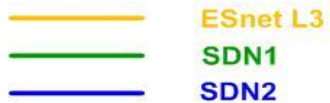
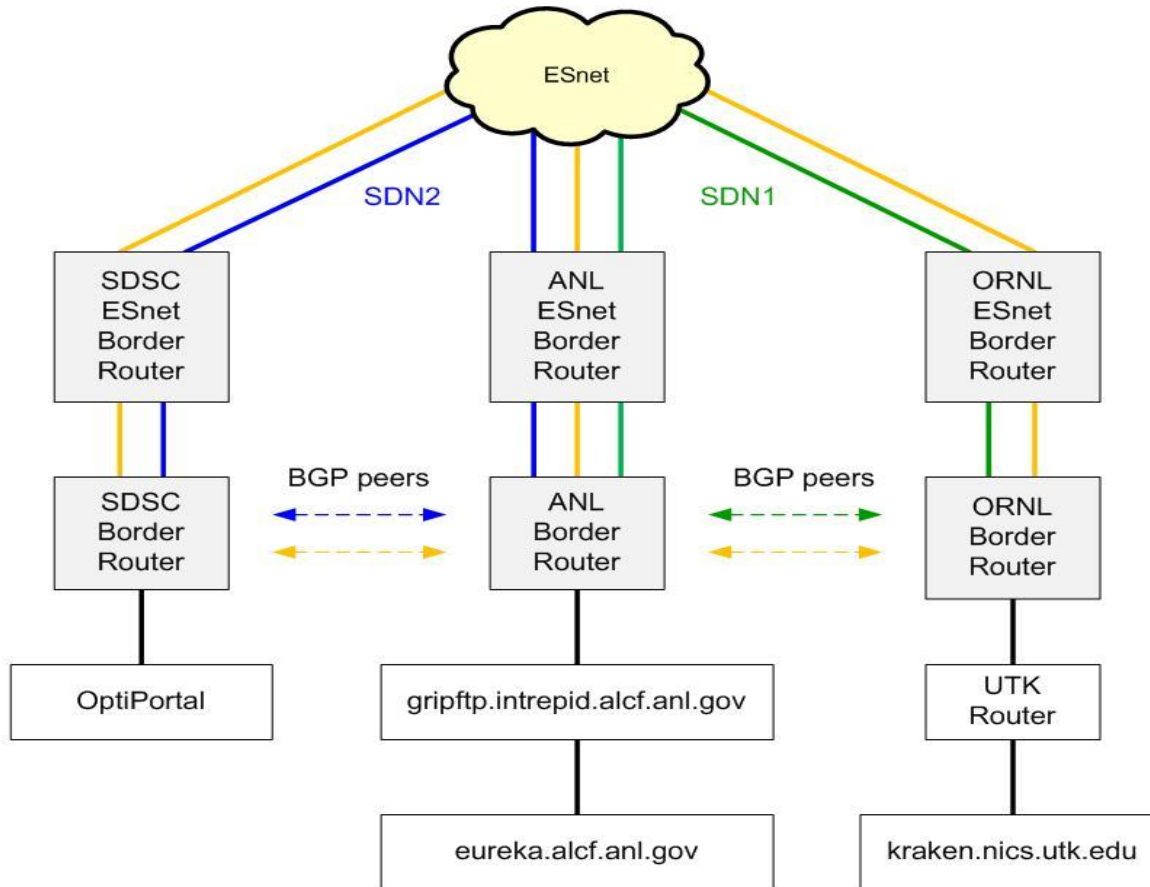


ORNL/ESnet Interface in Nashville



- Qwest Fiber
- TVA Fiber
- AT&T Fiber
- - - ESnet IP L3 wave
- - - SDN wave

SDN OptiPortal Demo



WAN Transfer Working Group

- ESnet, NERSC, OLCF, ALCF
- <http://www.lbl.gov/cs/Archive/news051809.html>
- perfSONAR applications to tune wide area transfers
- dedicated data transfer nodes increased transfers between NERSC and OLCF by factor of 20
- deploying dedicated perfSONAR nodes

IPv6

- **Approved for /48**
- **Contract negotiations finalized yesterday**
- **Testbed**
- **Hope to have perimeter implementation by end of year**

DNSSEC

- **Member of the SNIP project, ornl.dnsops.gov**
- **Running Bind 9.6**
- **DNSSEC implementation expected Oct-Dec 2009**
 - new servers to handle anticipated load
 - evaluating tools
- **ORNL has 127 *.gov domain names, 15 of which are second level**

Questions?