



SC16

Salt Lake City, Utah | hpc matters.



SC16 Architecture

NDIS workshop

Nov 13th, 2016

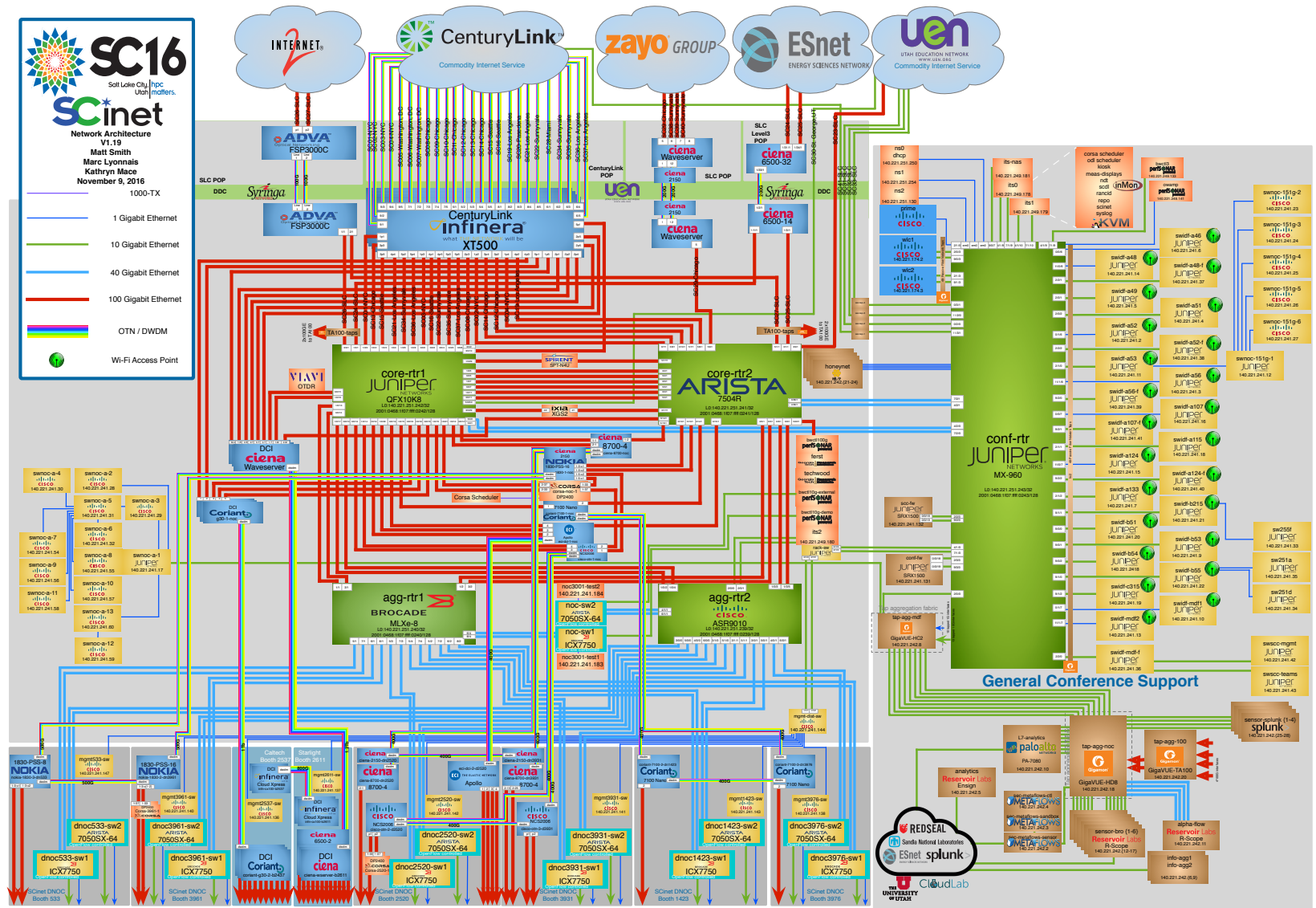
SC16 Network Diagram

SC16
Salt Lake City hpc
Utah matters.

SCinet
Network Architecture
V1.19
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1000-TX

- 1 Gigabit Ethernet
- 10 Gigabit Ethernet
- 40 Gigabit Ethernet
- 100 Gigabit Ethernet
- OTN / DWDM
- Wi-Fi Access Point



Major changes in 2016

- OTN used to transport 100GE
 - Fiber infrastructure
 - FEC will increase the reliability of the fiber interconnection from the NOC to the booth
 - Metro Ring
 - 400G rings
 - Data Center Interconnect (DCI)
 - Terabit uplinks
- Security Core Flow
 - Enriching of Security events with other information sources (Ralph)
- SDN to the booth
 - Evolving from last year's OpenFlow experimentation to production
- Evolution with Corsa (see next slide)

The SCinet Corsa Experiment

- The goal is to automate scheduling of priority network access
- Provide a database driven automation platform to provide the scheduling details
- Execute scheduling allowing all experiments access to the network at all times, with priority to the scheduled experiment.