

# TRILL/SPB Activity Report

Ronald van der Pol

# History (1/2)

- Amsterdam Meeting, Dec 2011
  - TRILL/SPB Activity Group formed
    - Chairs: Ronald van der Pol & Gerben van Malenstein
- Berkeley Meeting, Jan 2012
  - Schedule announced
    - 1Q2012: document about TRILL and SPB (DONE)
    - Rest of 2012: testbed with TRILL, 802.1aq or equivalent technologies (IN PROGRESS)
    - End of 2012: Decision: choose, stop or more time
    - 1H2013: Implement concepts in next generation LHCONE service pilot

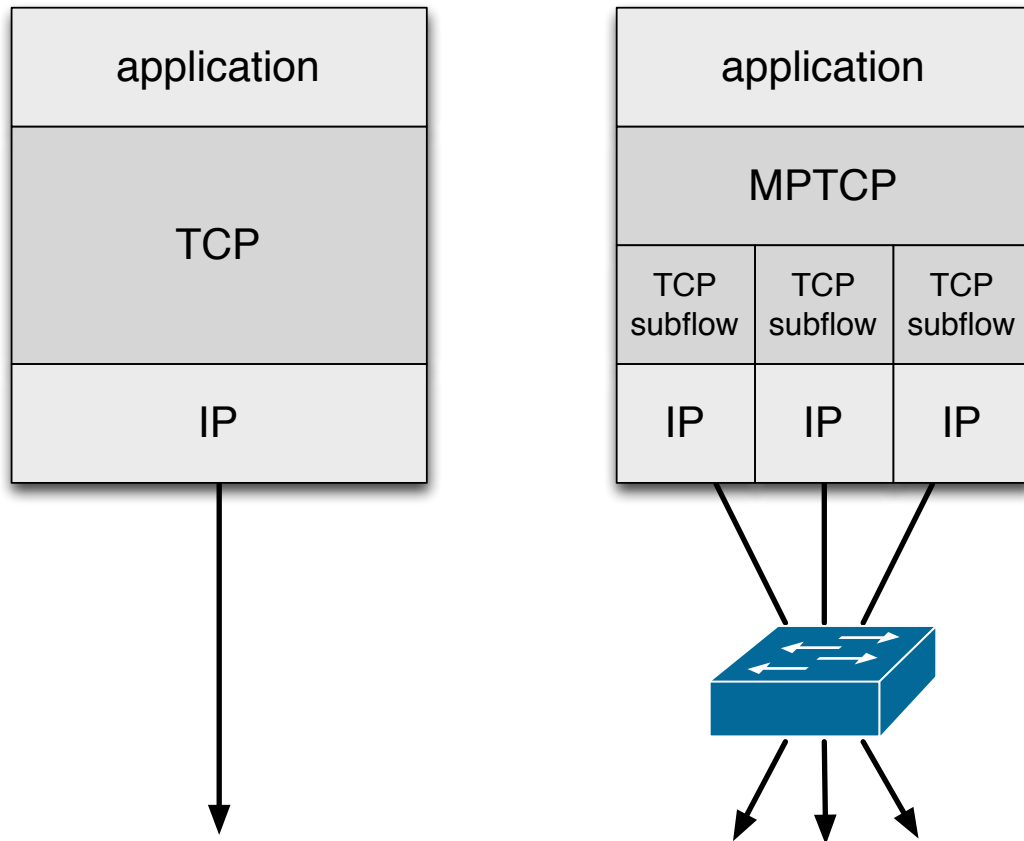
# History (2/2)

- Stockholm Meeting, May 2012
  - Overview of TRILL and SPBM presented
    - TRILL/SPB not much vendor support yet
    - Proprietary solutions: Cisco FabricPath, Juniper QFabric, Brocade VCS (not compatible)
  - Ideas about multipathing presented
  - Testbed announced
    - Technologies: OpenFlow, multipath, MPTCP
      - Explore options, get hands-on experience
    - Call for participants

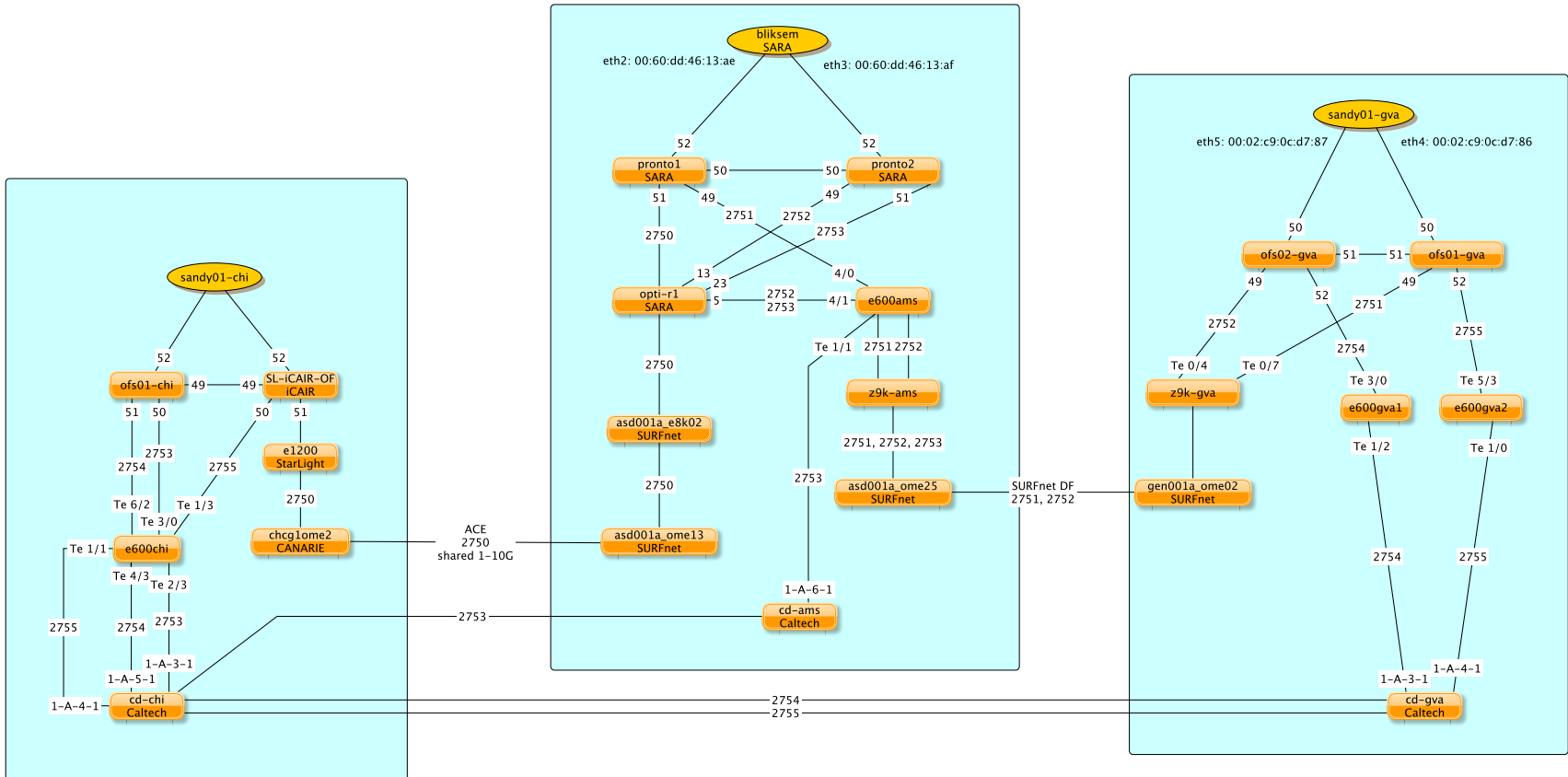
# Multipathing with MPTCP and OpenFlow Demo

- Participants: SURFnet/sara, Caltech, iCAIR
- Work in progress
- Demo at GLIF (Okt 2012) and SC12 (Nov 2012)
- Streaming data between two servers, using
  - Multiple (10GE) paths between Geneva and USA
  - MPTCP capable servers for load balancing
  - Both servers have 2x10GE interfaces
  - OpenFlow controlled provisioning of subflows
    - Python script talking to one controller, no control framework used
  - Not an overall architecture

# MPTCP



# GLIF Demo Topology



# GLIF OpenFlow Topology

