

# APOLLON

DE-CIX APOLLON. CUTTING EDGE INTERCONNECTION.



[apollon.de-cix.net](http://apollon.de-cix.net)

## DE-CIX Apollon

Launch presentation at the  
Global Peering Forum #8  
San Diego, April 10<sup>th</sup>, 2013



- Goals

- DE-CIX Apollon will provide cutting edge interconnection on a 100GE level by choosing and implementing new infrastructure for both the optical layer and the switching layer.
- Apollon needs to support traffic and customer port growth for the next 3-5 years. This includes scalable capacity in the core of up to 20Tbps in 2016 and 45 Tbps in 2018.
- Replace 1:1 redundancy in the core with n+1 redundancy.
- Keep local traffic local (switch and site).
- Core links must be 100GE to reduce the number of links, to better utilize bandwidth, and to be able to accommodate larger flows.
- Redundancy and multipathing on upper protocol layers.

- Technology

- Optical Layer

- Adva FSP3000 DWDM
- Up to 80 x 28Gbit/s (=2Tbit/s per fiber pair)

- Switching Layer

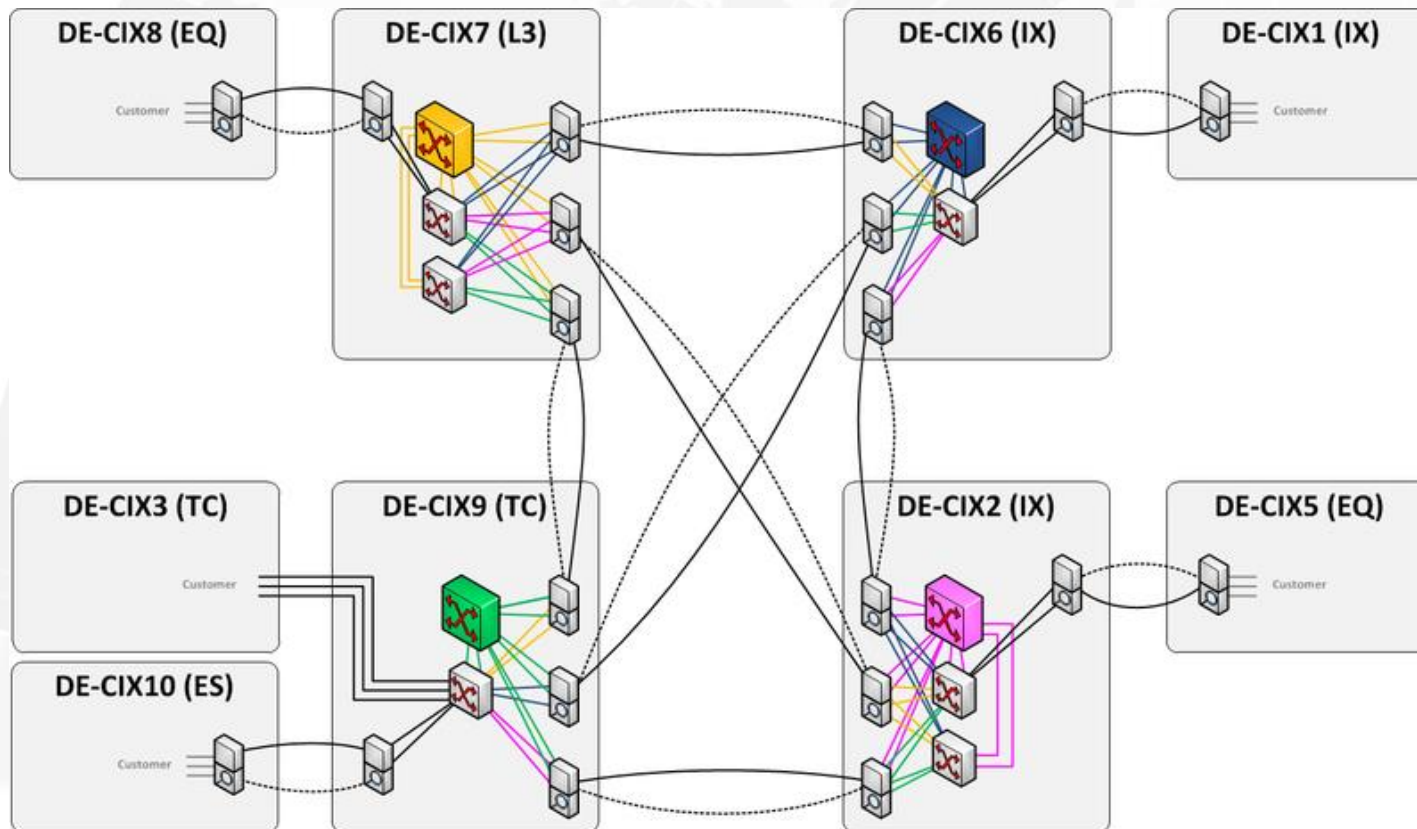
- Alcatel-Lucent („ALU“) 7950 XRS-20
- Up to 80 x 100GE per chassis
- 10 chassis in total incl. 4 x Apollon Supernodes (core) in 4 secure locations



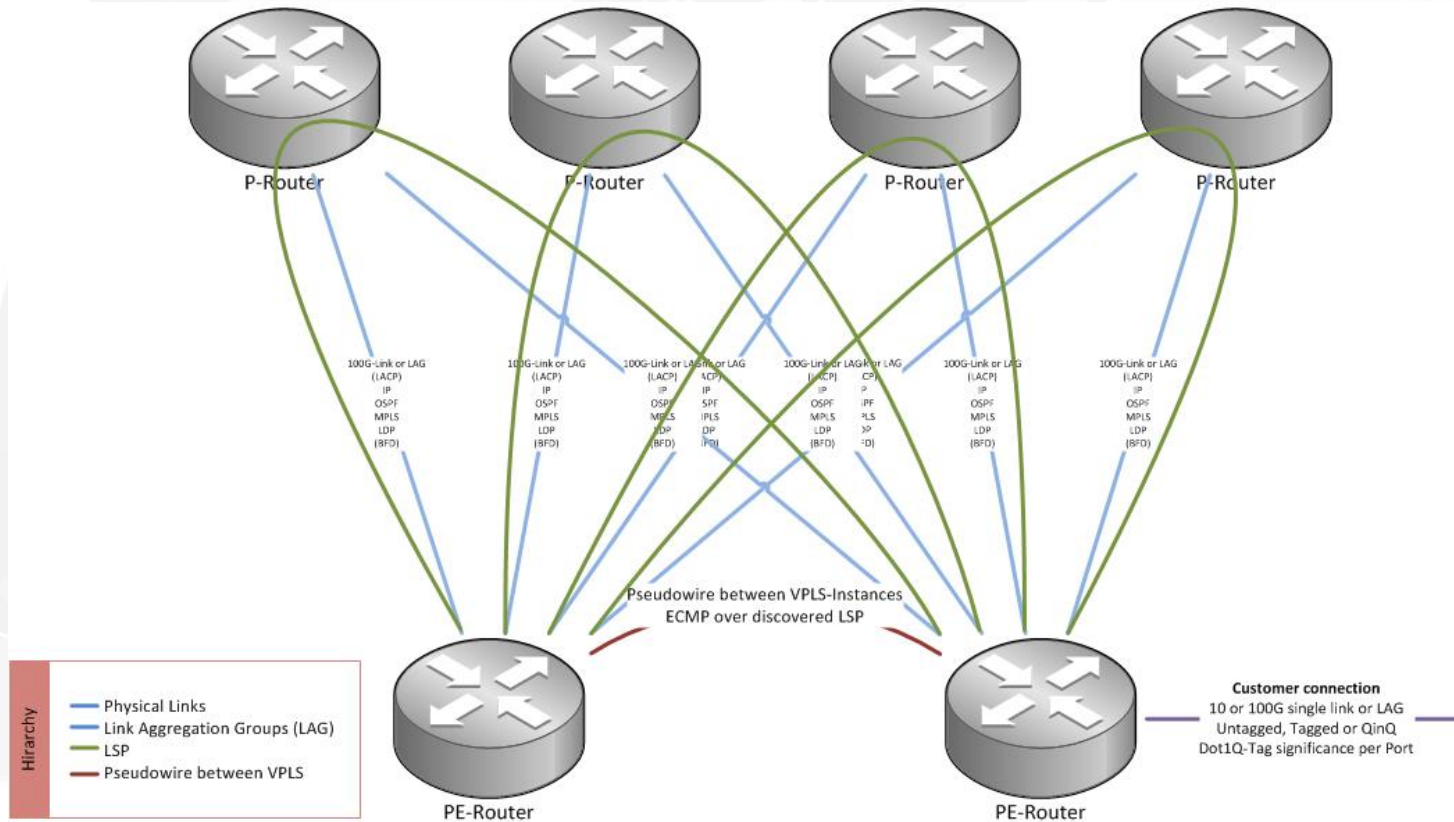
- Alcatel-Lucent 7950 XRS-20
  - Pro
    - Ready for multi chassis
    - Best implementation of required features
    - Excellent hardware performance
    - Migration scenario possible
  - Con
    - Only DC chassis (needs external rectifiers)
    - No sflow (counter & samples; implementation necessary)



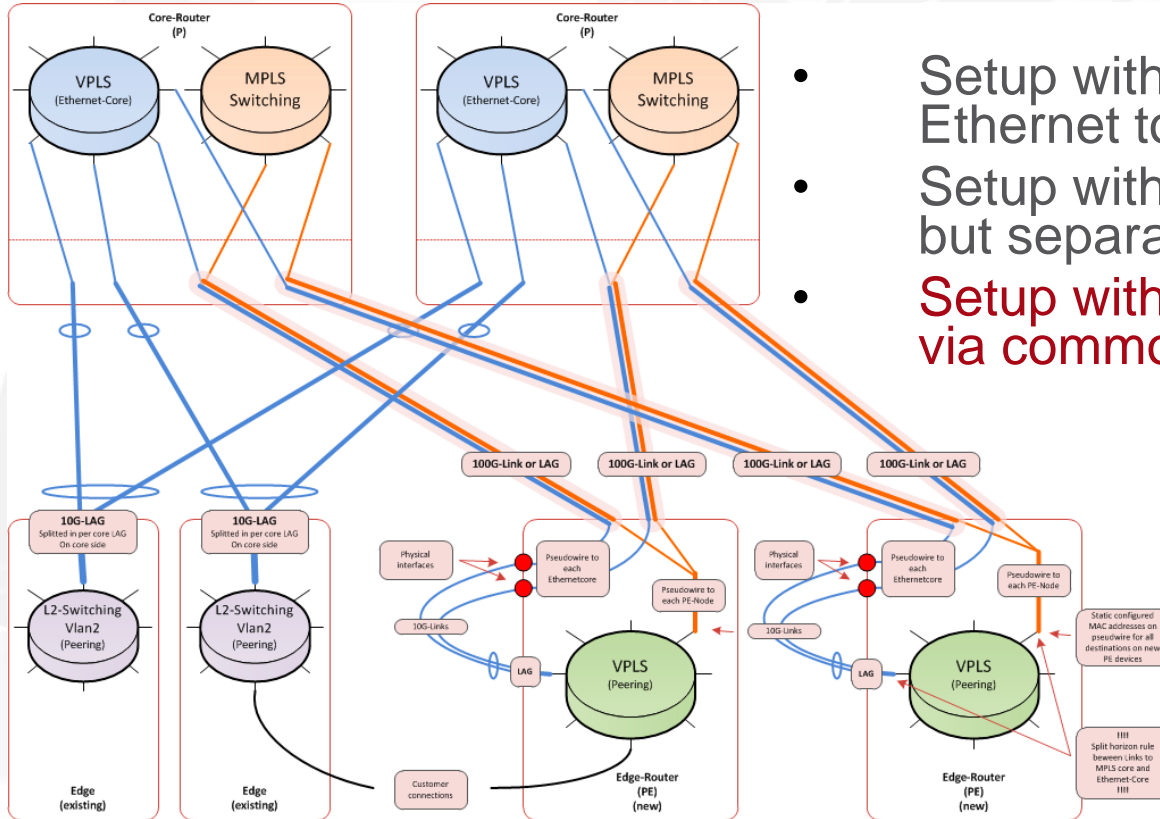
- New Topology (snapshot)



- VPLS / MPLS Design



- Migration Setup



- Setup with hard switch from Ethernet to MPLS
- Setup with both Ethernet/MPLS, but separated Edge/Core links
- **Setup with both Ethernet/MPLS via common link**



- Summary
  - DE-CIX Apollon will provide a larger spectrum of Ethernet based interconnection services incl. Internet Exchange and Layer 2 data link functionality.
  - DE-CIX Apollon will be available in Frankfurt first (RFS December 2013) and on selected international markets soon.
  - DE-CIX is a one-stop shop for interconnection in an all Ethernet and all IP environment. All backed by industry leading SLAs.

