

# Applicability of Abstraction and Control of Traffic Engineered Networks (ACTN) to Packet Optical Integration (POI)

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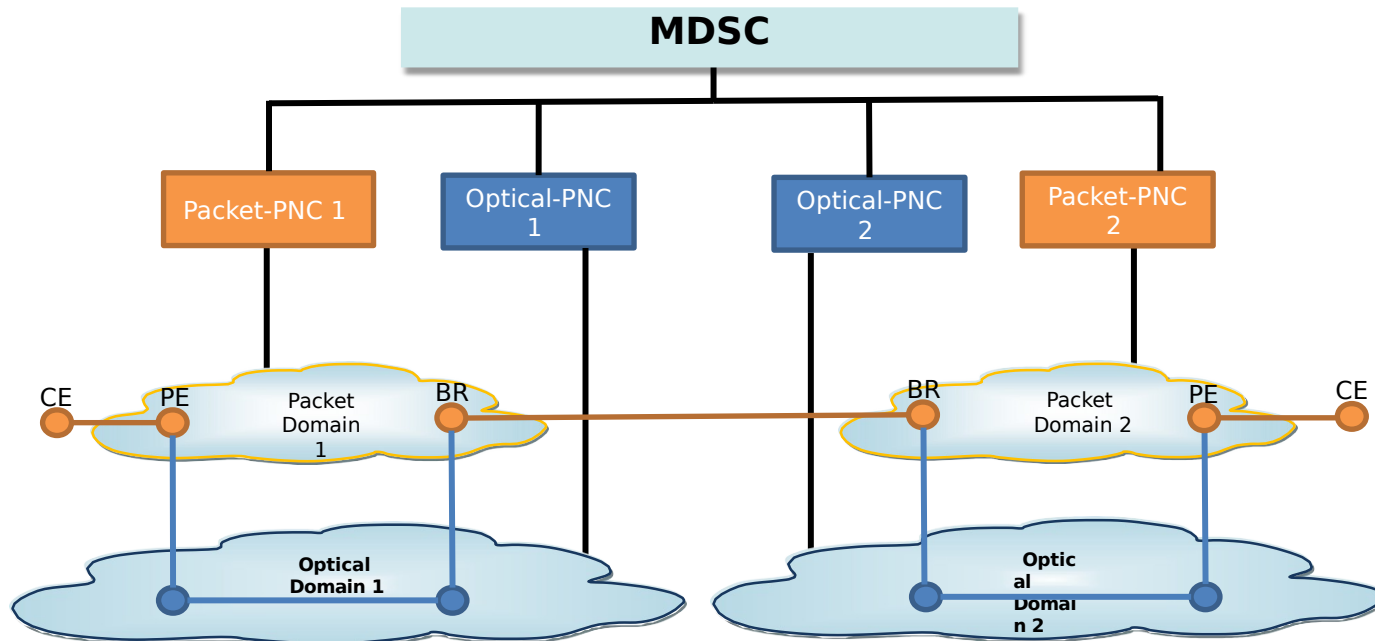
# I-D Use Cases

## 1. Inventory, Service and Topology Discovery

- Inter-domain link discovery
- Multi-layer IP Link discovery
- Inventory discovery
- TE paths discovery

## 2. Establishment of L2VPN/L3VPN with TE requirements

- Optical Path Computation
- Multi-layer IP Link Setup and Update
- TE Path Setup and Update



# Status Update

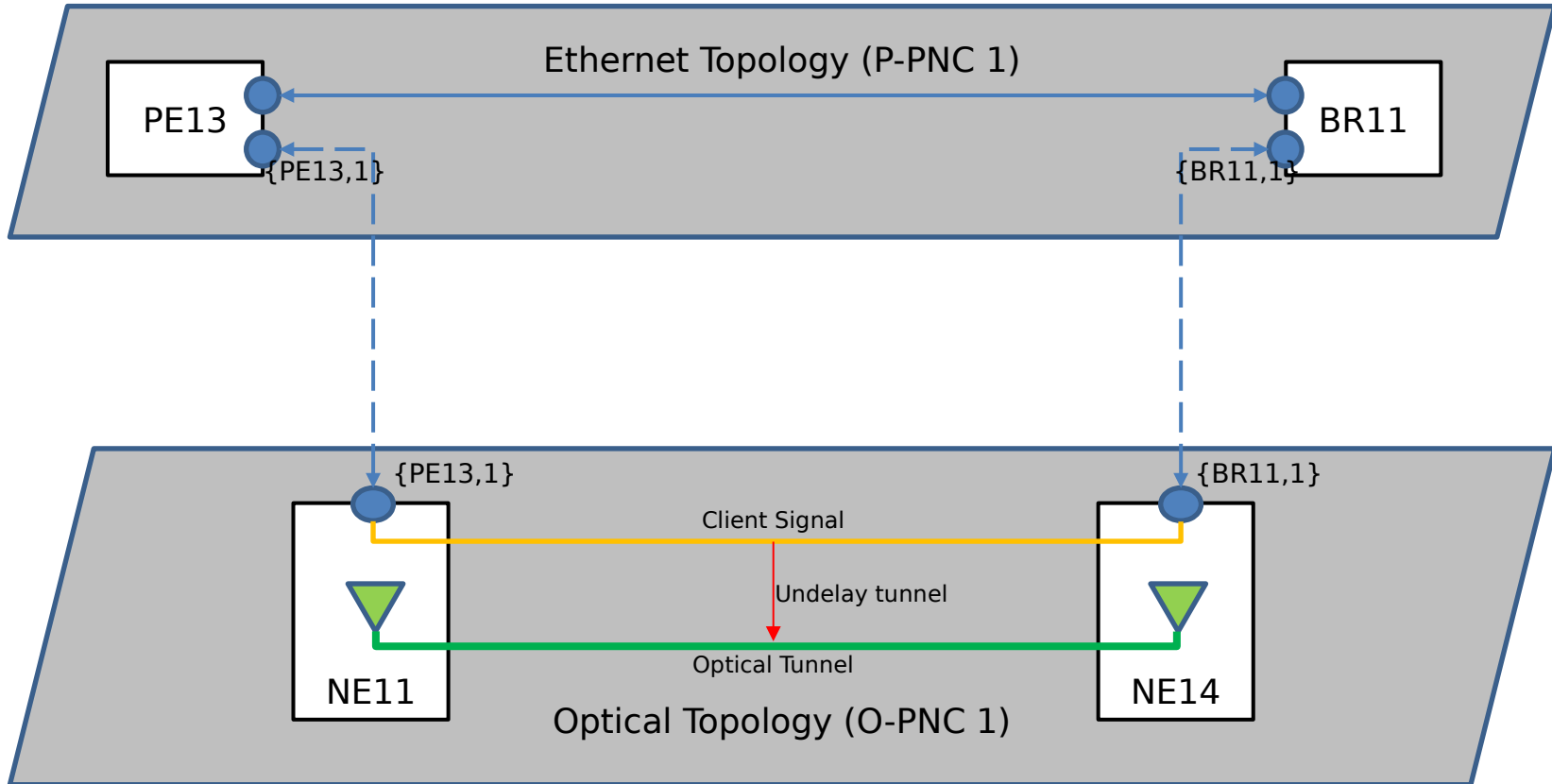
- No updates since IETF 120
- Updates since version 08 (IETF 116)
  - Editorial updates
  - Clarified the role of L3-TE Topology
  - Generalized description of local protection to cover both MPLS and SR cases
  - Added requirement to configure minimum number of LAG active members
  - Added requirement to support mix of fixed and flexible grids in DWDM networks
  - Generalized the description of to cover both transparent and frame-based Ethernet services over optical network
  - Added description of muxponders' constraints
  - Added operational considerations
  - Added security considerations

# Open Issues

- Relationship between TE Topology and SAP Topology (Technical)
- Clarification on multi-technology intra-domain Ethernet Link (Editorial)
  - Clean-up the definition
  - Clarify why there is the need to report two LTPs for a single Ethernet interface
- Issue tracking and current version available on Git
  - <https://github.com/IETF-TEAS-WG/actn-poi/issues>

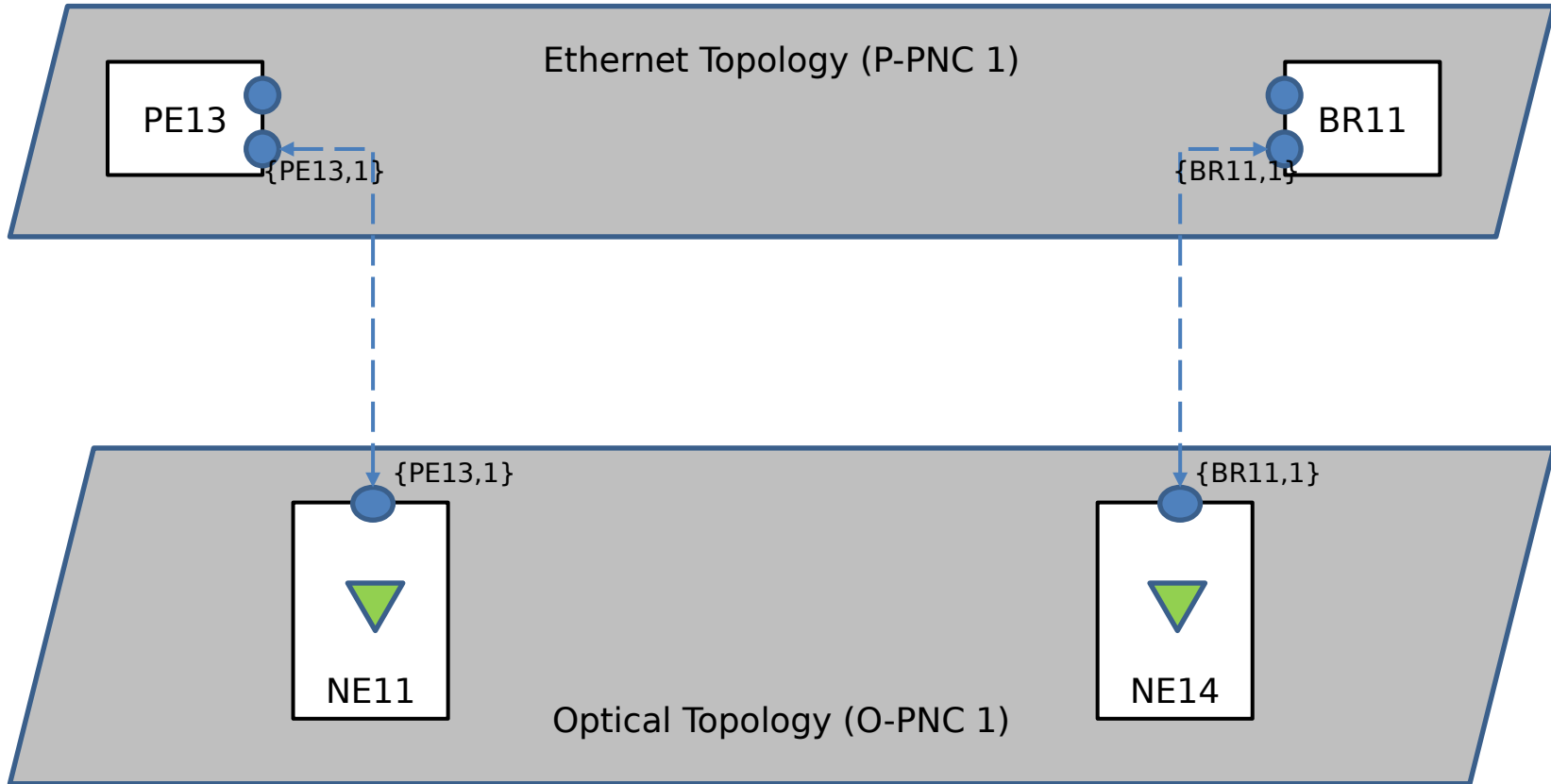


# Multi-layer Intra-domain ETH Link



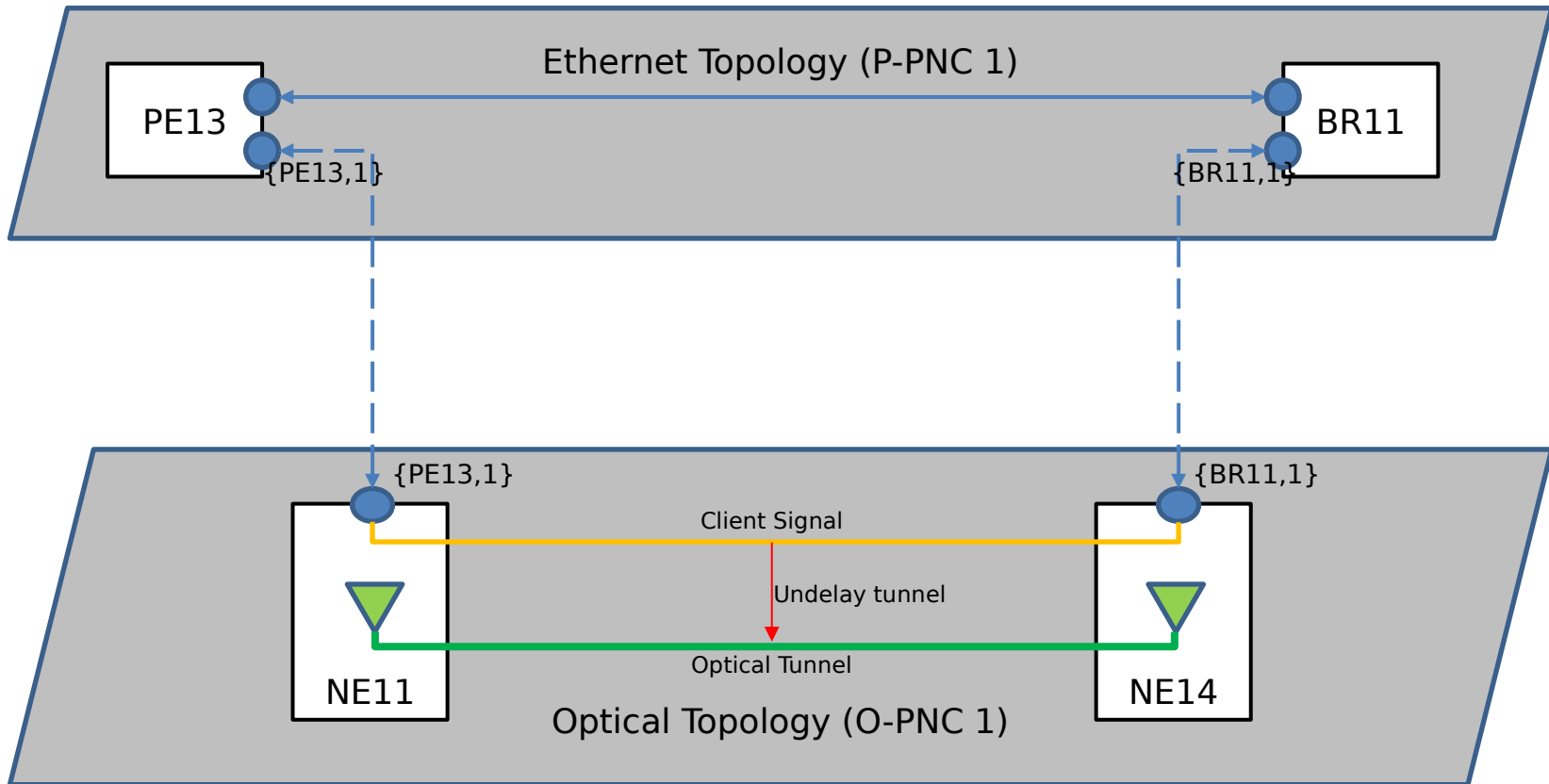
Review text to check whether the current description is clear enough or could be enhanced (and how)

# Router and Optica NE Adjacency



The adjacencies between PE11 and NE11 (and between BR11 and NE14) shall be discovered by the MDSC before the optical service is setup e.g., through LLDP snooping

# Routers Adjacency



The adjacency between PE13 and BR11 is discovered by the P-PNC after the optical service is setup e.g., through LLDP



# Next Steps

- Planned updates to the document
  - Update the text to address the pending open issues
  - Editorial clean-up
- Target: WG Last Call before IETF 122