

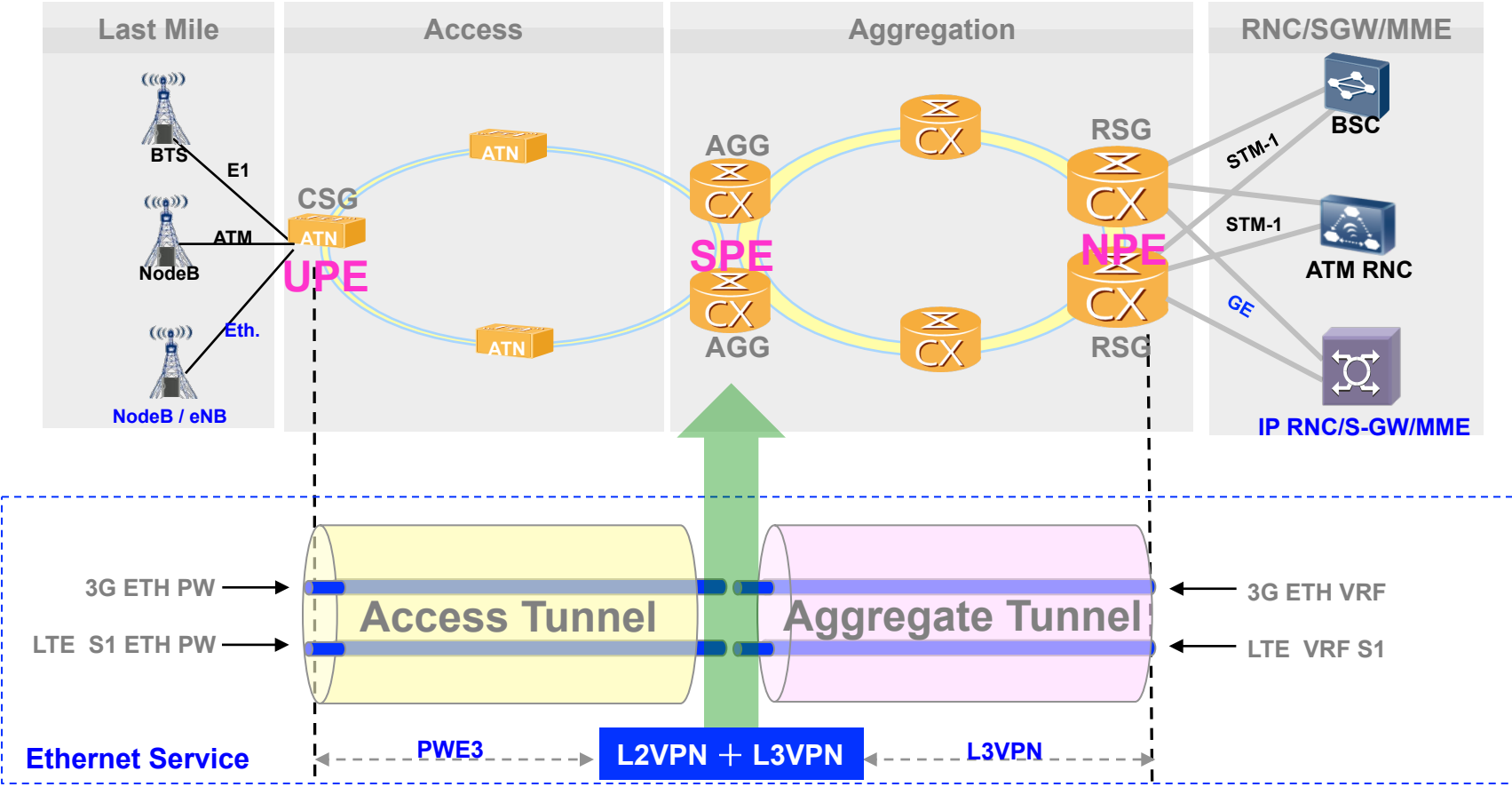
# Performance Monitoring Analysis for L3VPN

draft-zheng-l3vpn-pm-analysis-00

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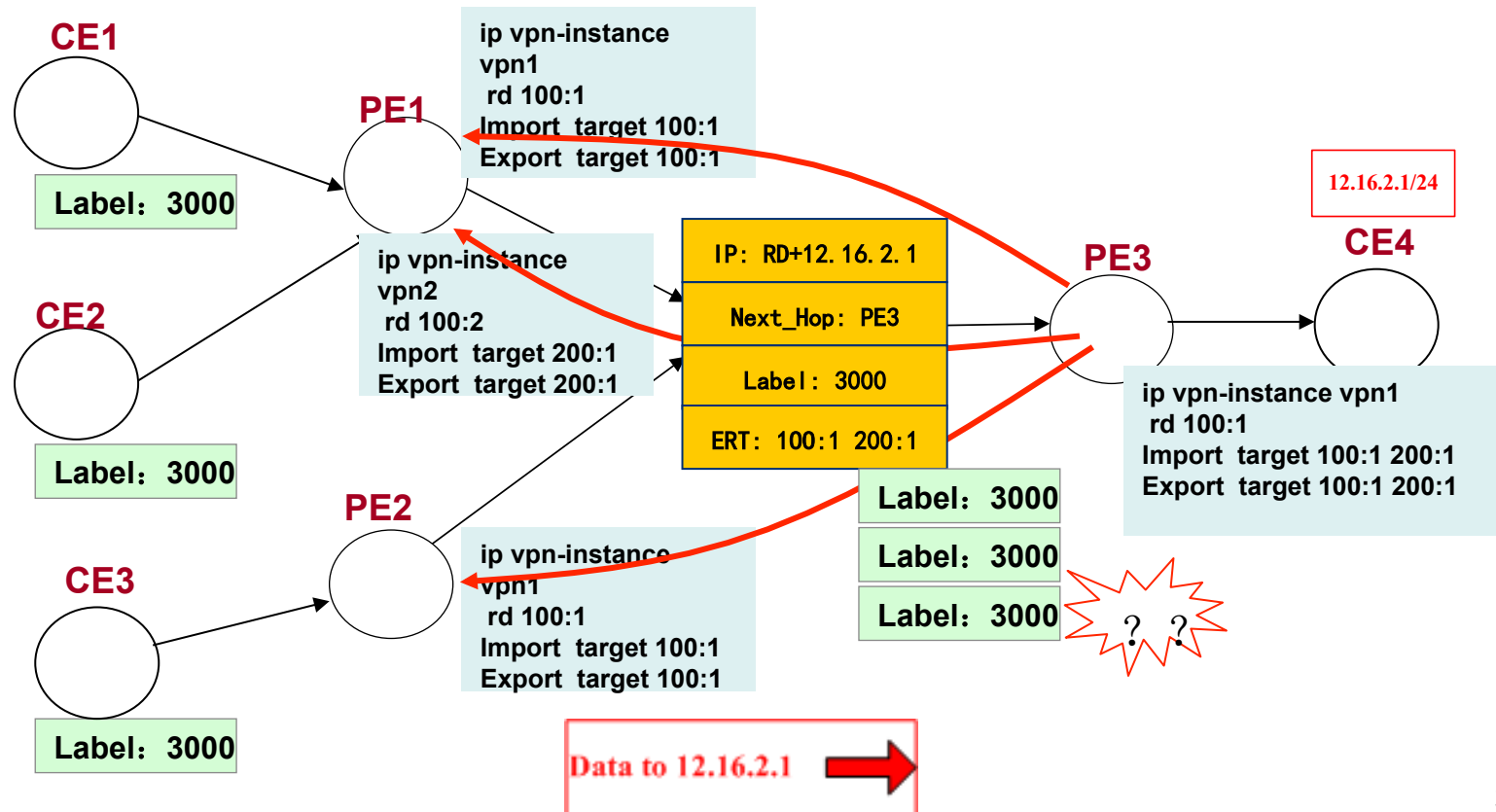
# Requirement for Performance Monitoring in L3VPN



- L3VPN is being deployed in mobile backhaul networks.
- Lack of visibility to performance characteristics in L3VPN, compared with PWs which could use MPLS Performance Measurements defined in RFC6374.

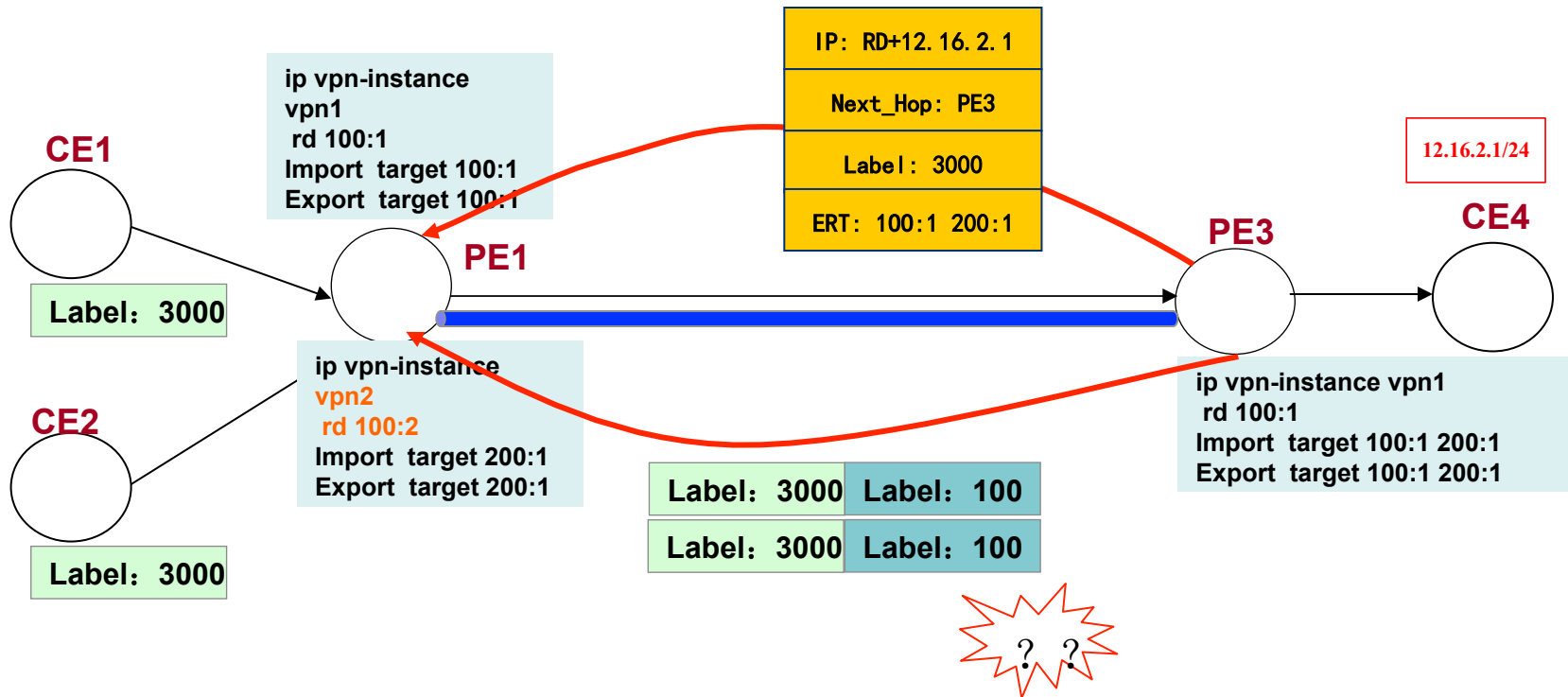
# Challenge for L3VPN Performance Monitoring (1)

- Network Model: Multipoint-to-Point or Multipoint-to-Multipoint
  - Existing MPLS PM mechanisms are applicable to P2P or P2MP.
  - Private label itself cannot uniquely identify a specific VPN instance.



# Challenge for L3VPN Performance Monitoring (2)

- Tunnel label cannot identify a specific VPN instance either.
  - E.g. in extranet scenario



# Design Considerations of L3VPN PM

- Introduce Point-to-Point Model
  - Establish Point-to-Point connection between every two VRFs
  - Essential for identifying the source of VPN traffic
- Compatibility with existing L3VPN
- MPLS OAM mechanisms should be reused
- Customer's QoS experience should not be impacted
- PM Configuration
  - Measurement entities and functions should be configurable

# Next Steps

- Solicit comments & feedbacks
- Revise the draft