



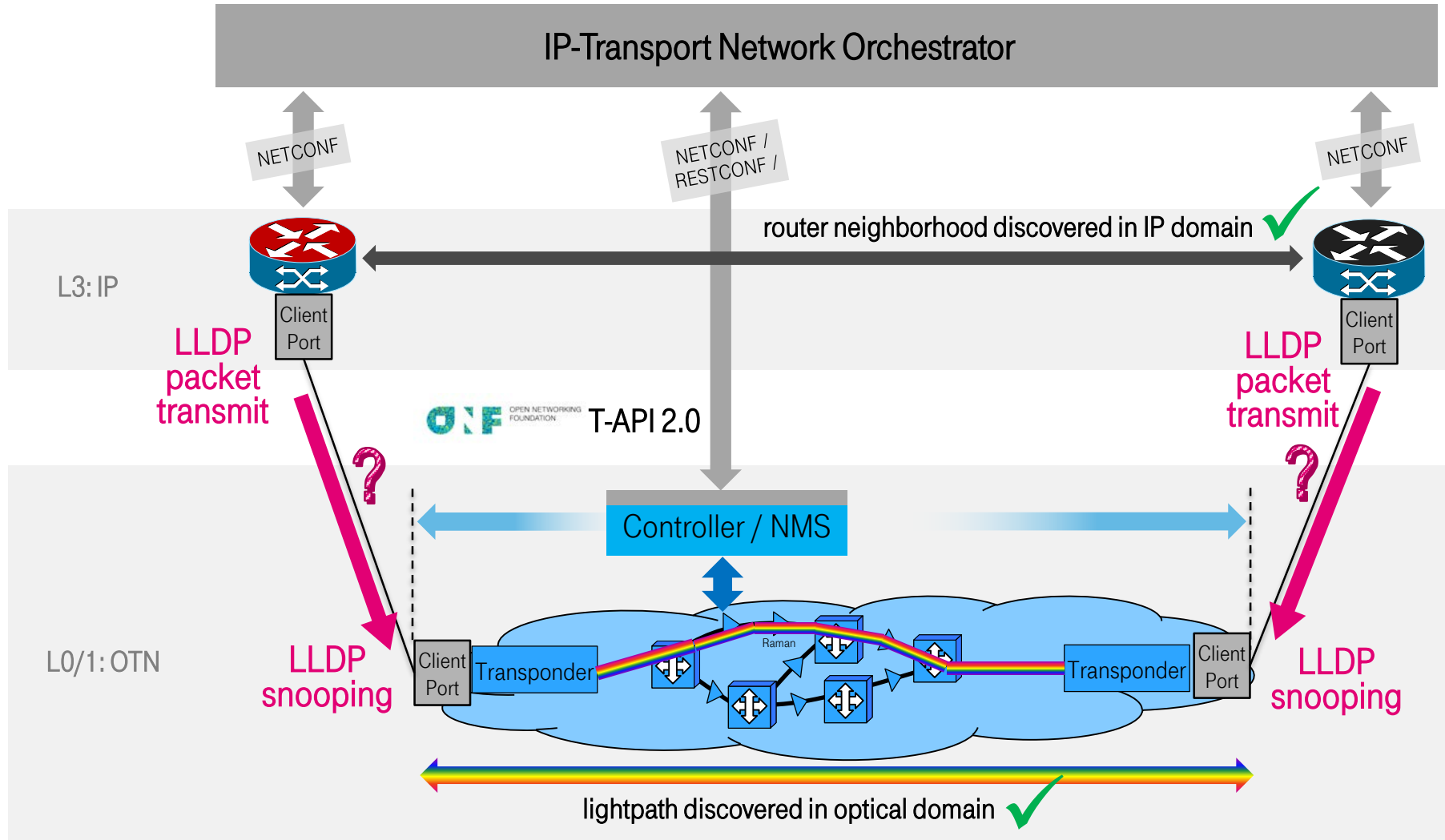
JANUARY  
**2019**

# IEEE-LLDP SUPPORT IN TAPI

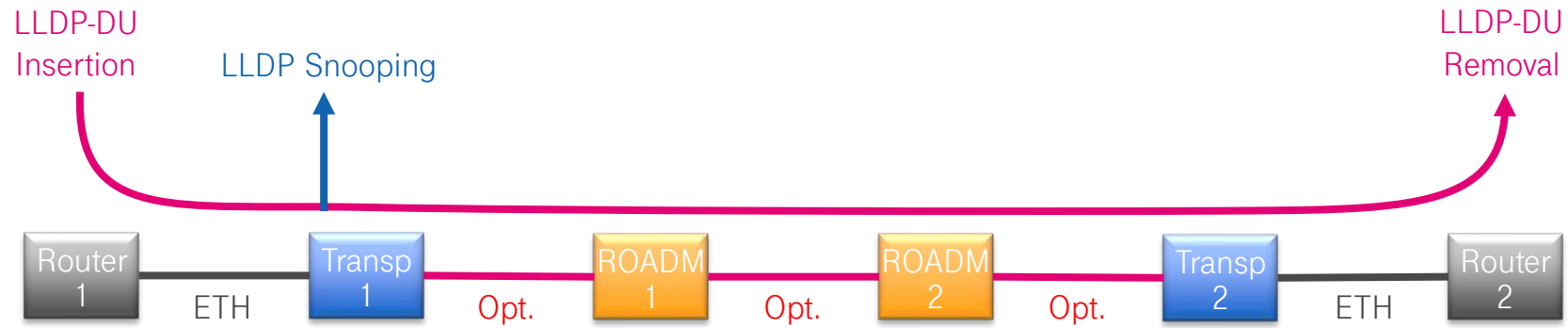


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# REASON



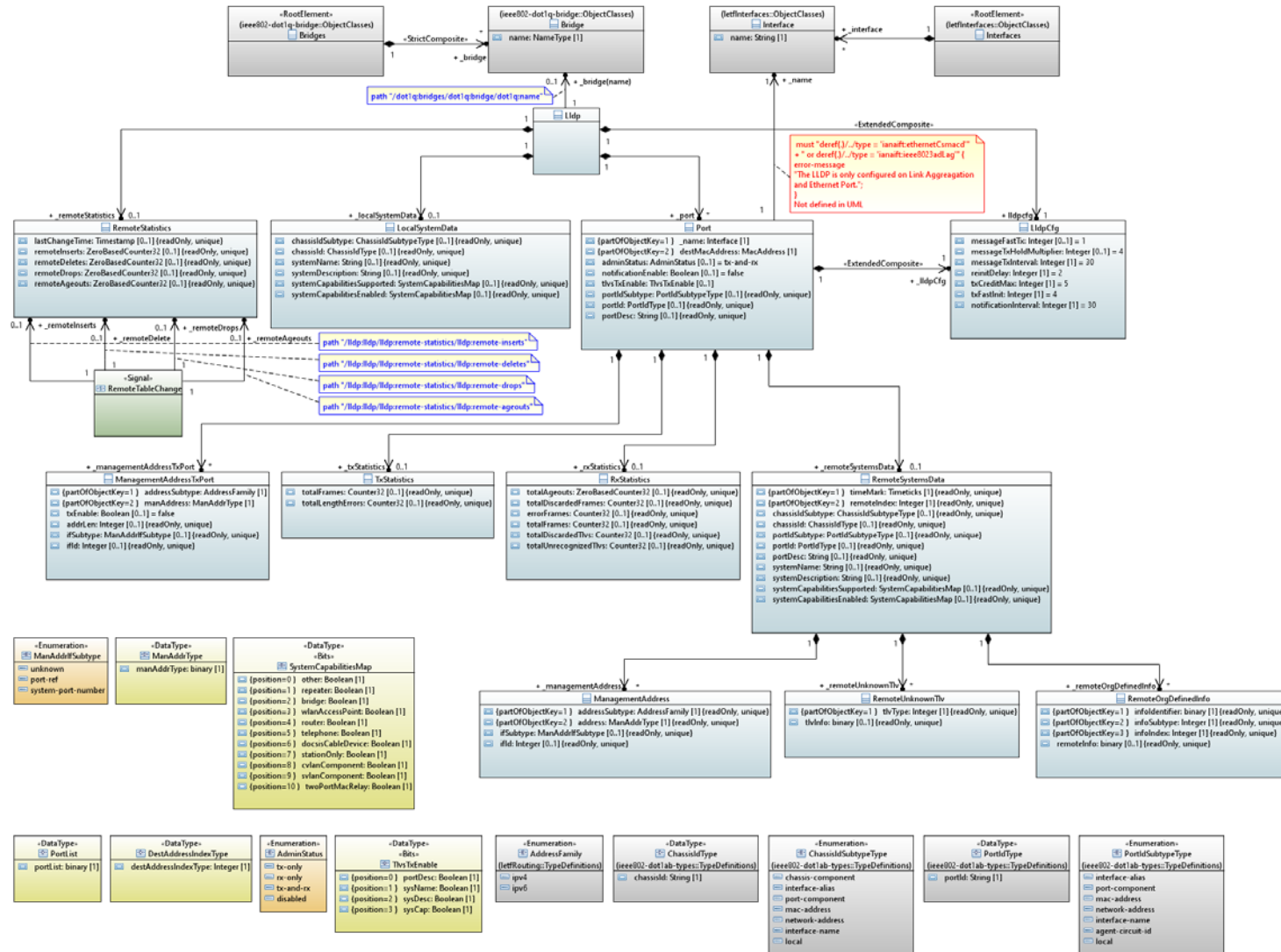
# LLDP USE CASE



## Minimum requirements

- LLDP snooping
- Enable/disable snooping
- Exchange of Chassis ID and Port ID (MSAP – media access control service access point)
- Providing received information about remote system

# RE-ENGINEERED IEEE802-DOT1AB-LLDP@2018-11-11.YANG



ieee802-dot1ab-lldp@2018-11-11.yip



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Bernd Zeuner (DT)/LLDP-TAPI

29.11.2018

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# OPEN ISSUES

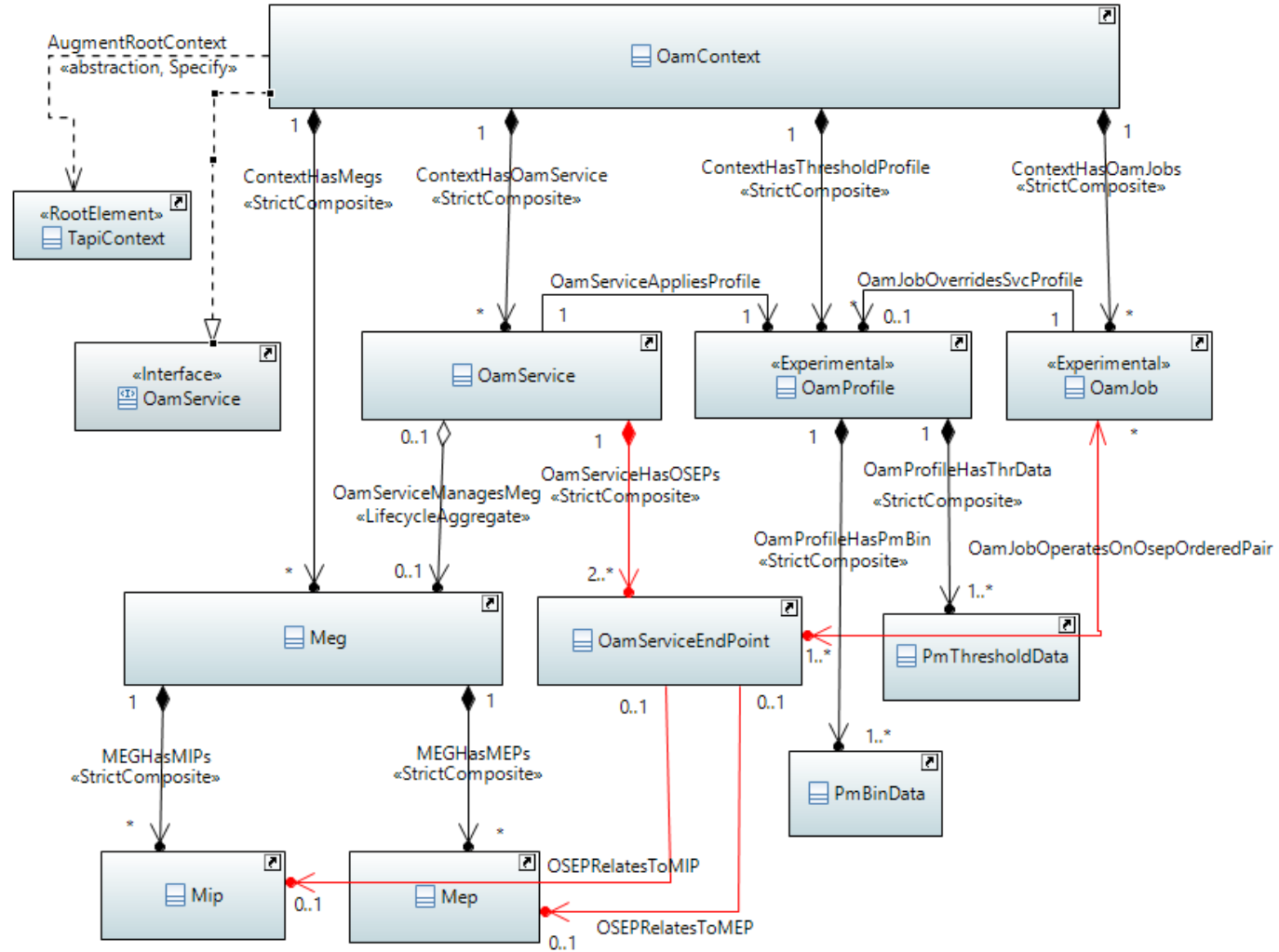
- How/where to attach the IEEE object classes to the TAPI OAM object classes?  
Answer F2F 12/2018: CEP; further question is which CEP → to study.
- Is it possible to just model the snooping function without preventing the enhancement to the full IEEE functionality?  
Answer F2F 12/2018: Yes; the model must not prevent future enhancement.
- Is it reasonable to just model the snooping function?  
Answer F2F 12/2018: Yes
- How to model more than one LLDP Agent per interface/port?  
Answer F2F 12/2018: To study. Note that in IEEE, an LLDP Agent handles only one LLDP level.



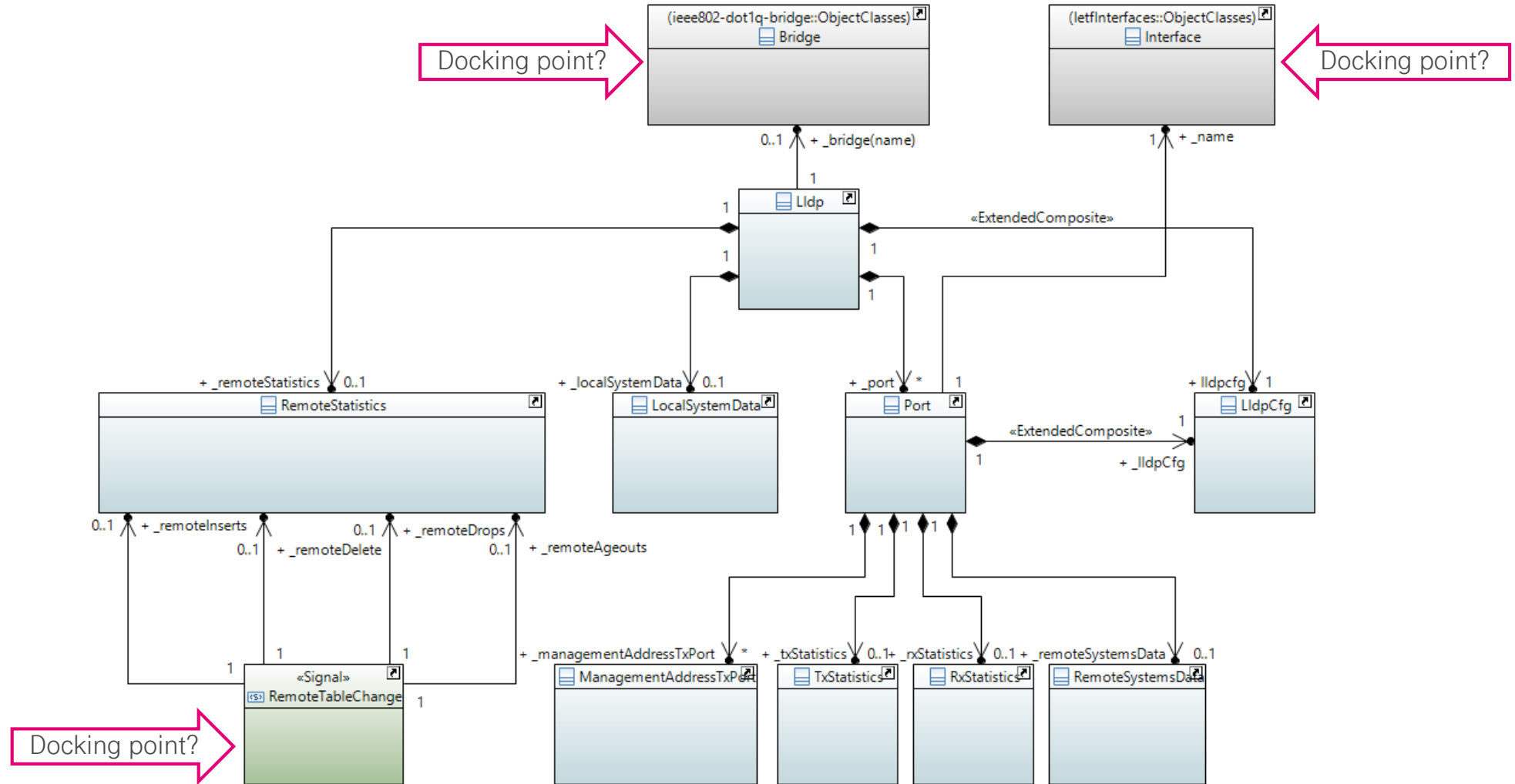
# AUGMENTING TAPI WITH LLDP



# TAPI OAM SKELETON

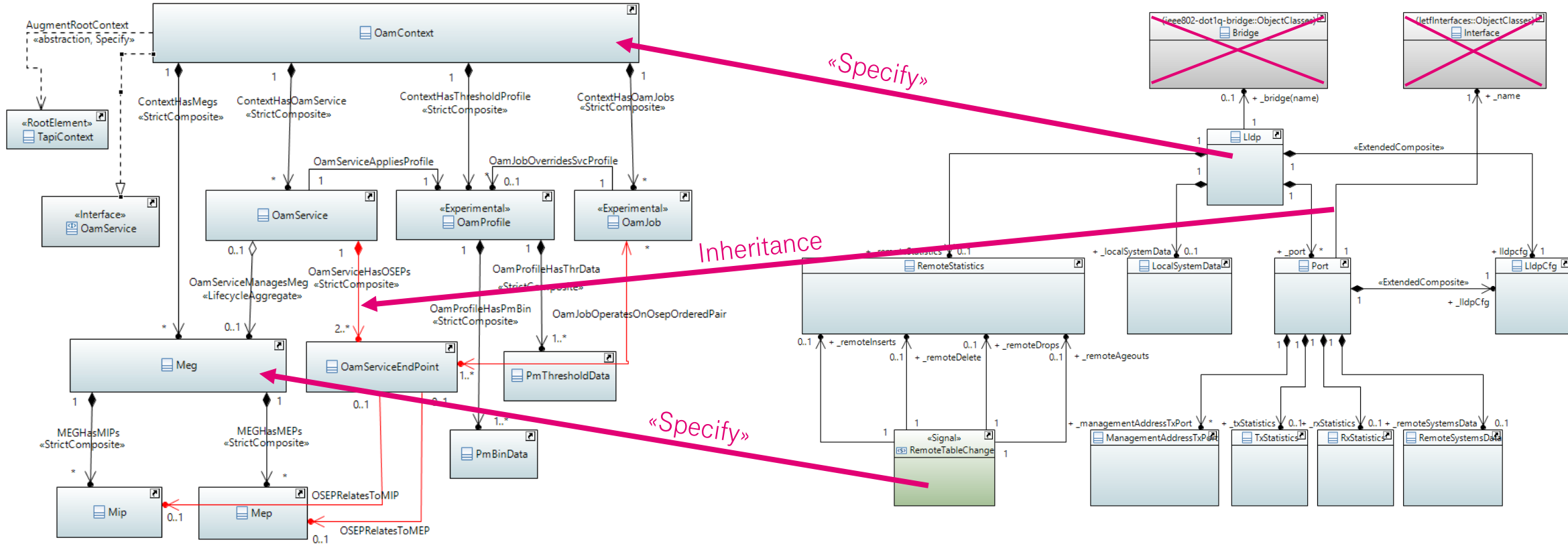


# IEEE802-DOT1AB-LLDP SKELETON CLASS DIAGRAM

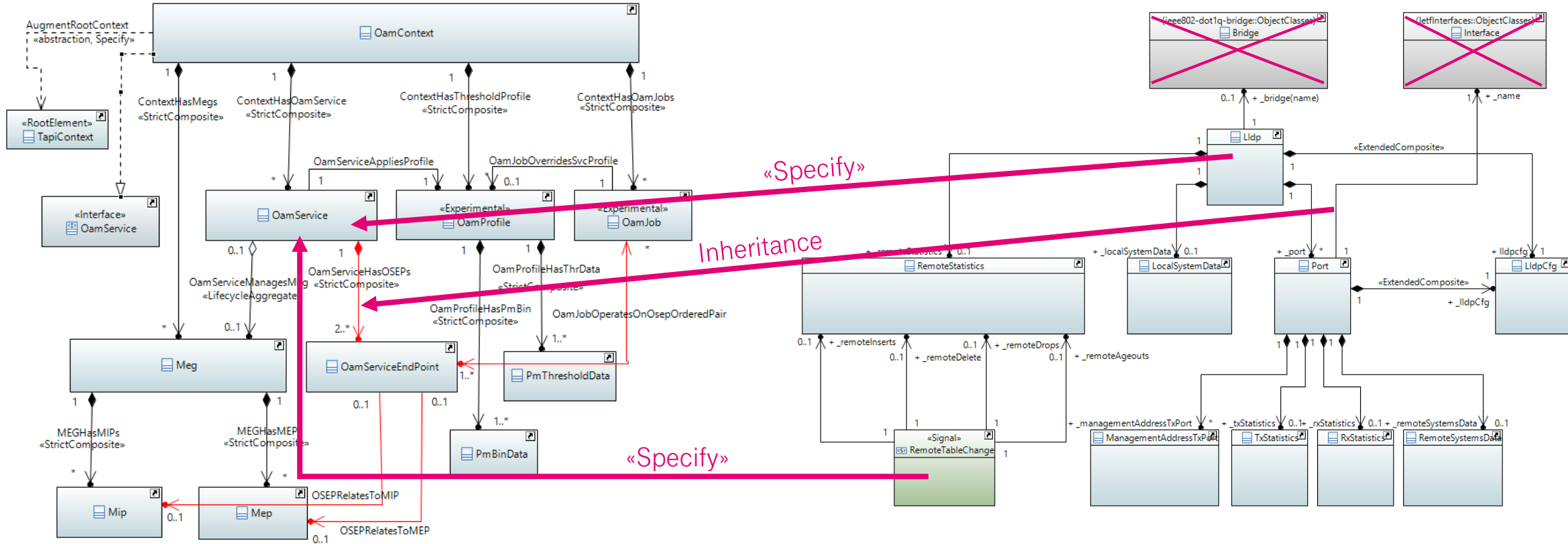




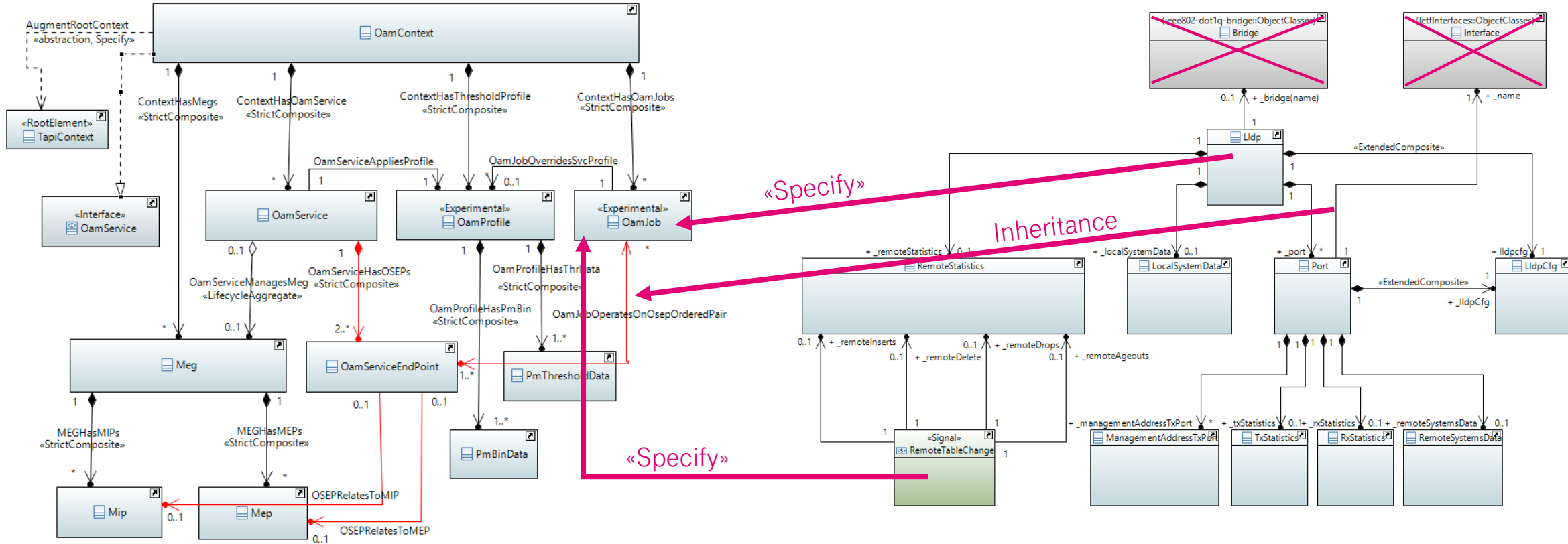
# AUGMENTING TAPI WITH LLDP: PROPOSAL 1



# AUGMENTING TAPI WITH LLDP: PROPOSAL 2

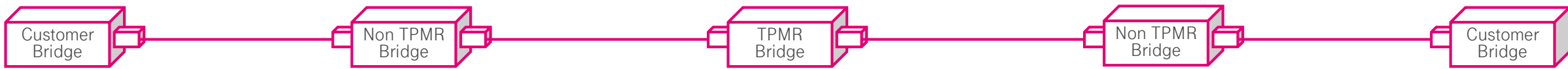
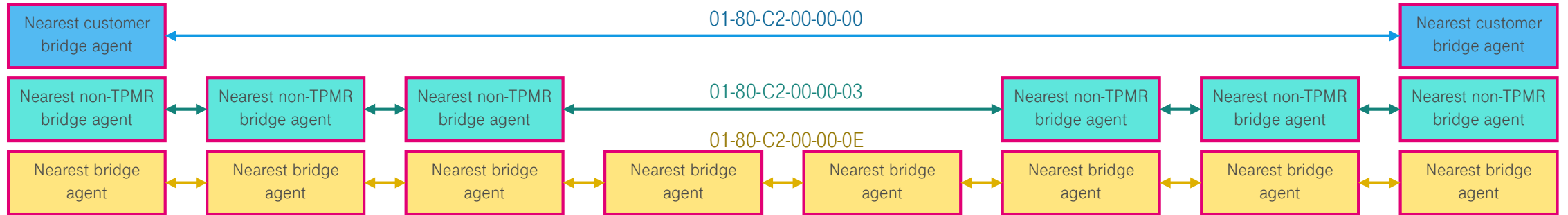


# AUGMENTING TAPI WITH LLDP: PROPOSAL 3



# BACKUP

- LLDP Frame:
- EtherType = 88-CC
  - Always untagged



 Port  
 TPMR = Two-Port MAC Relay