# IETF Transport Model Instance Diagrams

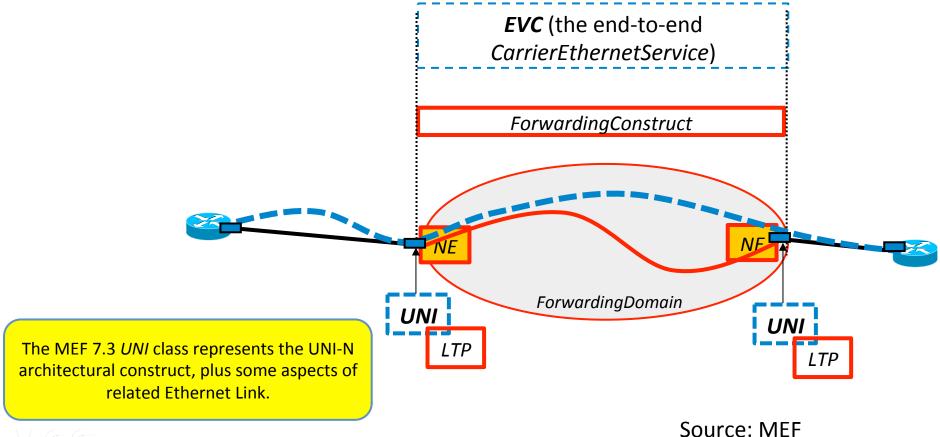
June 11<sup>th</sup>, 2016

## Use Case - 1

Point-to-Point Service, Single Provider, Single Network Topology

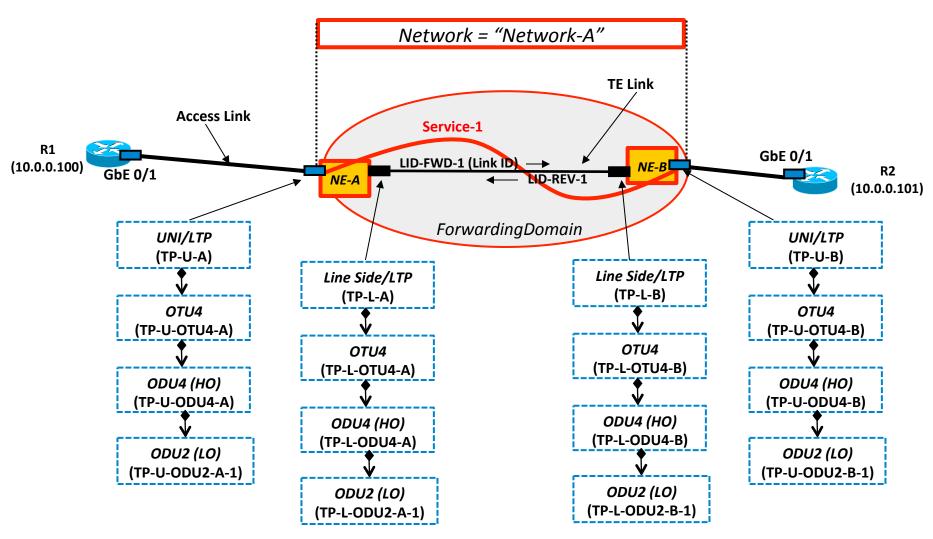
### Mapping from Service/EVC to ForwardingConstruct Single Provider, single Forwarding Domain

I managed object classes at Service level (potentially appearing at Legato, Interlude) managed object classes at Resource level (potentially appearing at Presto)



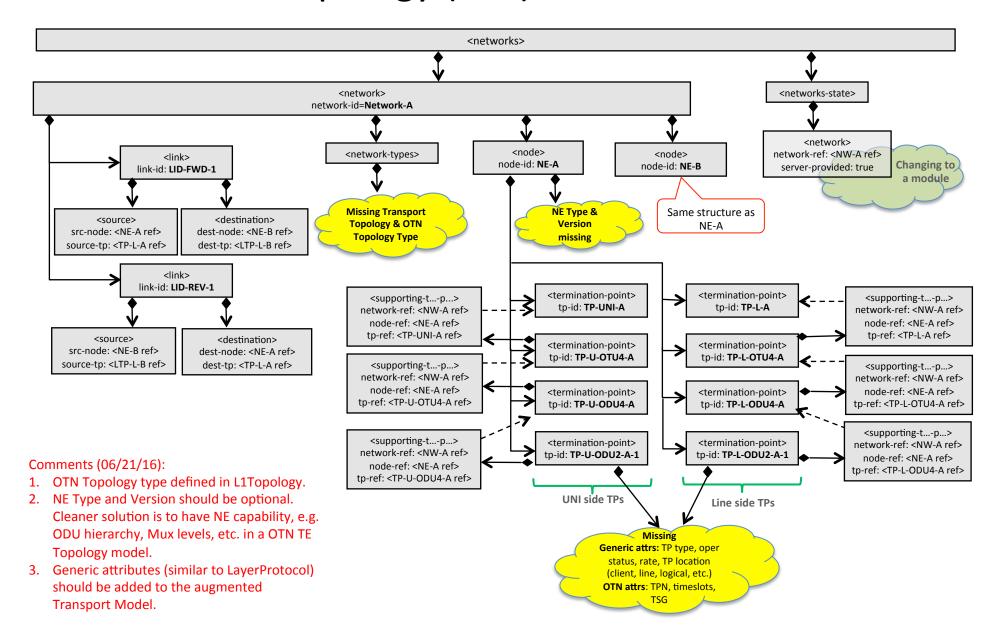


## Point-to-Point Service, Single Provider, Single Network Topology

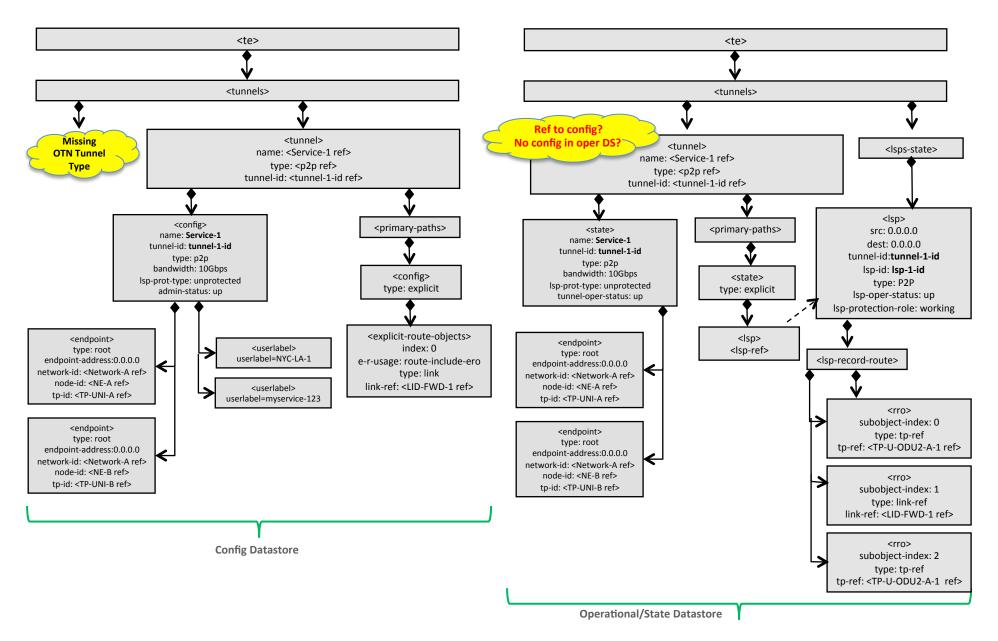


Comments (06/21/16): Remove OTU4. Split ODU4 into ODU4 Edge Point and ODU4. Links associated with ODU4 edge points.

### Network Topology (i2rs) Model Instantiation

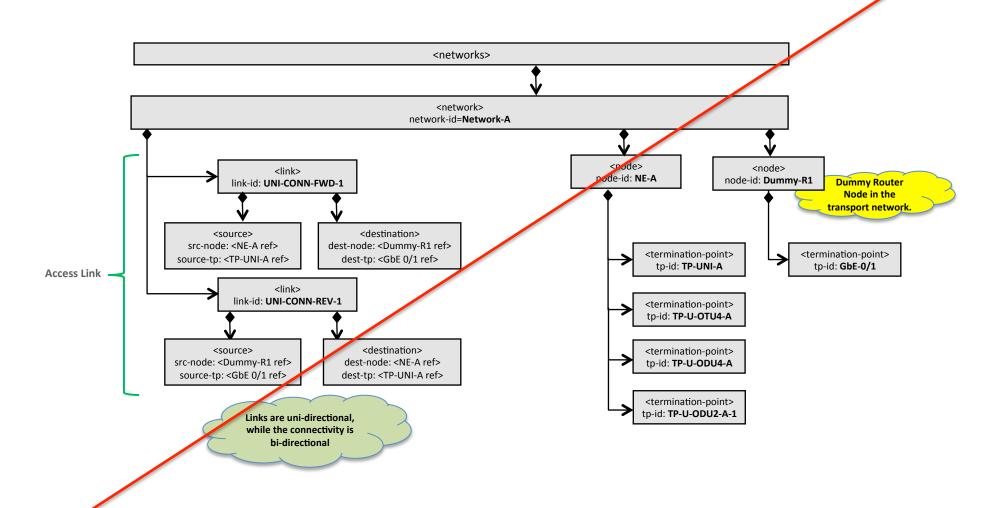


#### **TEAS Tunnel Model Instantiation**

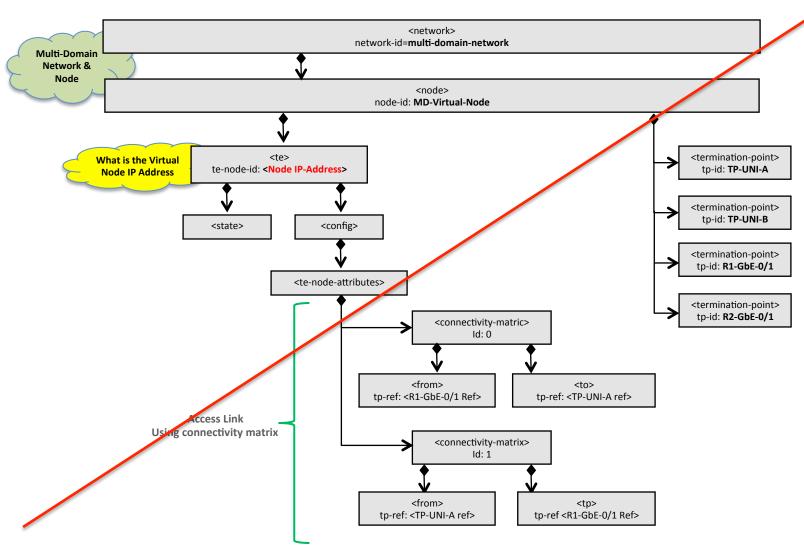


## Access Link Modeling

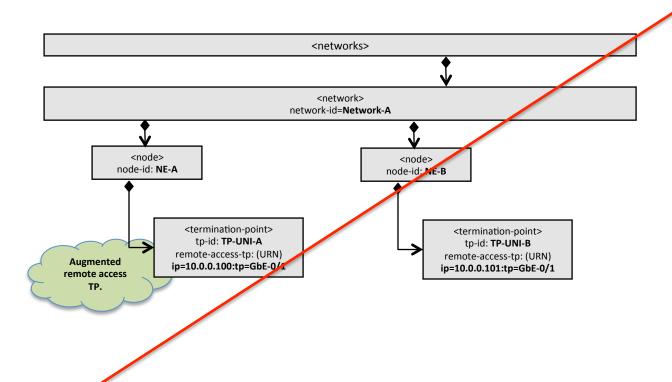
Option #1: Access Link Modeling using Dummy Router Node



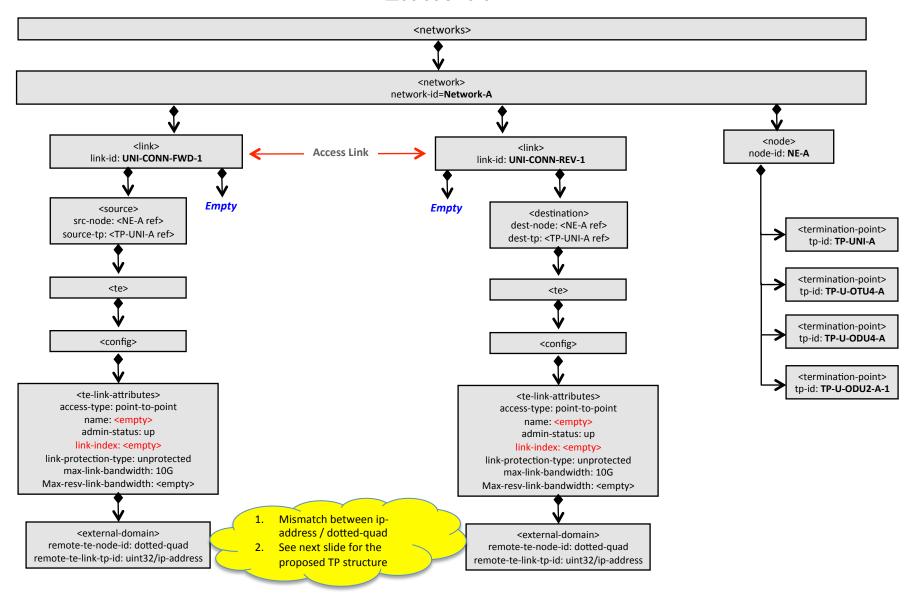
Option #2: Access Link Modeling using Virtual Node & Connectivity Matrix



## Option #3: Access Link Modeling using augmented TP attribute



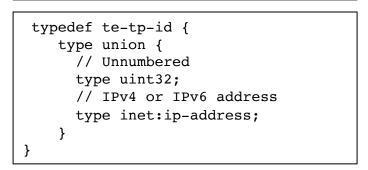
## Option #4: Access Link Modeling using Remote Link TP



## Option #4: Proposed Remote TP Type

```
container external-domain {
    leaf remote-te-node-id {
        type te-node-id;
    }
    leaf remote-te-link-tp-id {
        type te-tp-id;
    }
}
```

```
typedef te-node-id {
    type yang:dotted-quad;
}
```



**Current Structure** 

```
container external-domain {
     choice type {
         case remote-router-tp {
               leaf remote-te-node-id {
                   type te-node-id;
                 leaf remote-te-link-tp-id {
                   type te-tp-id;
         case remote-tp {
                   leaf remote-te-node-id {
                             type inet:uri;
                   leaf remote-te-link-tp-id {
                             type inet:uri;
```

**Proposed Structure** 

### **Access Link Modeling Summary**

- Which option to go with?
  - On TE-Topology call (06/20/15), it was suggested to have keyword with remote TP information (similar to Option #3).
    - The discussion about the type of the keyword is in progress.
  - 06/26: Option #4 proposed by TE-Topology.
    - Remote TP structure/type needs to be updated.