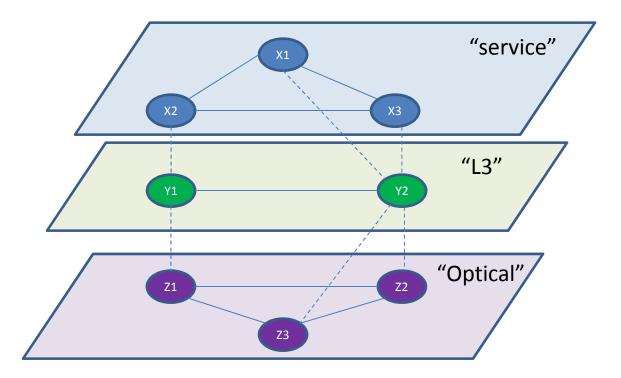
## Network Topology Models draft-ietf-i2rs-yang-network-topo

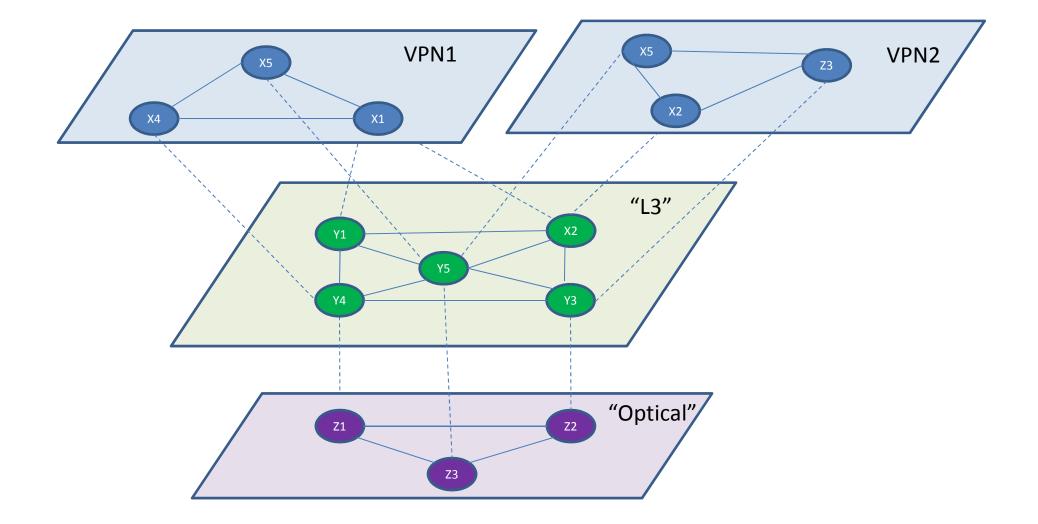
Alexander Clemm (Cisco), Jan Medved (Cisco), Nitin Bahadur (Bracket Computing), Robert Varga, Tony Tkacik (Cisco) Hari Ananthakrishnan (Packet Design)

July 21, 2015

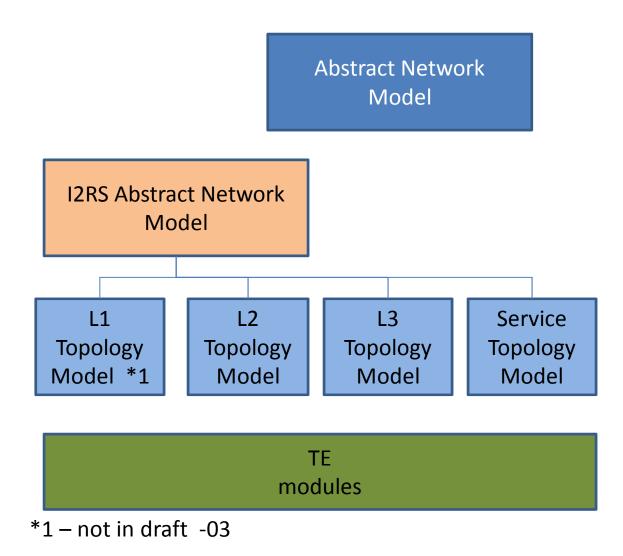
## Horizontal and vertical layering



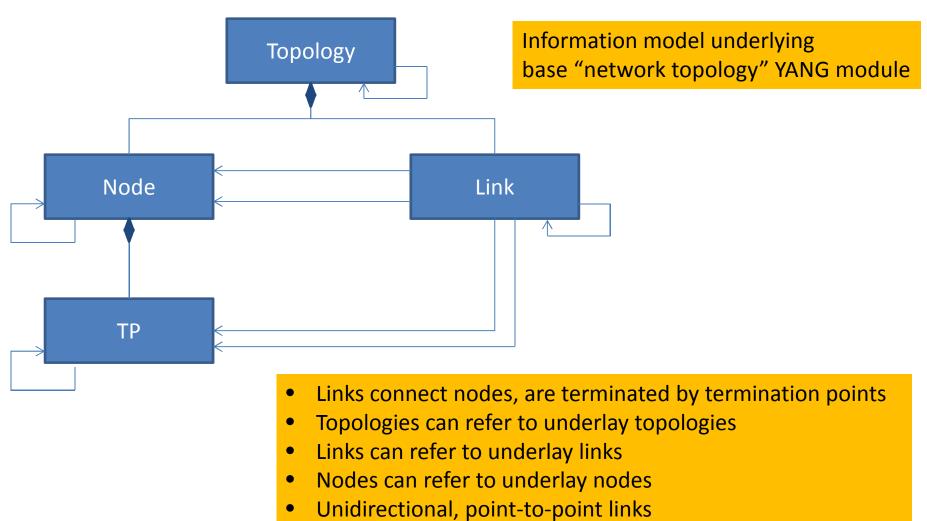
## Stack Example



# Abstract Toplogy



# Data model structure (contd.)



represent non-ptp through hierarchies of nodes, links

#### **BACK-UP**

```
module: network-topology
+--rw network-topology
   +--rw topology* [topology-id]
      +--rw topology-id
                                   topology-id
      +--ro server-provided?
                                   boolean
      +--rw topology-types
      +--rw supporting-topology* [topo-ref]
         +--rw topo-ref
                         leafref
      +--rw node* [node-id]
         +--rw node-id
                                    node-id
         +--rw supporting-node* [network-ref node-ref]
             +--rw network-ref
                                  leafref
            +--rw node-ref
                                 leafref
            +--rw lnk:termination-point* [tp-id]
               +--rw lnk:tp-id
                                                          tp-id
               +--rw lnk:supporting-termination-point*
                               [network-ref node-ref tp-ref]
               +--rw lnk:network-ref
                                        leafref
               +--rw lnk:node-ref
                                        leafref
               +--rw lnk:tp-ref
                                        leafref
       +--rw lnk:link* [link-id]
         +--rw lnk:link-id
                                      link-id
         +--rw lnk:source
            +--rw lnk:source-node
                                     leafref
            +--rw lnk:source-tp?
                                     leafref
         +--rw lnk:destination
            +--rw lnk:dest-node
                                   leafref
            +--rw lnk:dest-tp?
                                   leafref
         +--rw lnk:supporting-link* [network-ref link-ref]
            +--rw lnk:network-ref
                                     leafref
            +--rw lnk:link-ref
                                     leafref
```