

# Transport NBI Design Team Update

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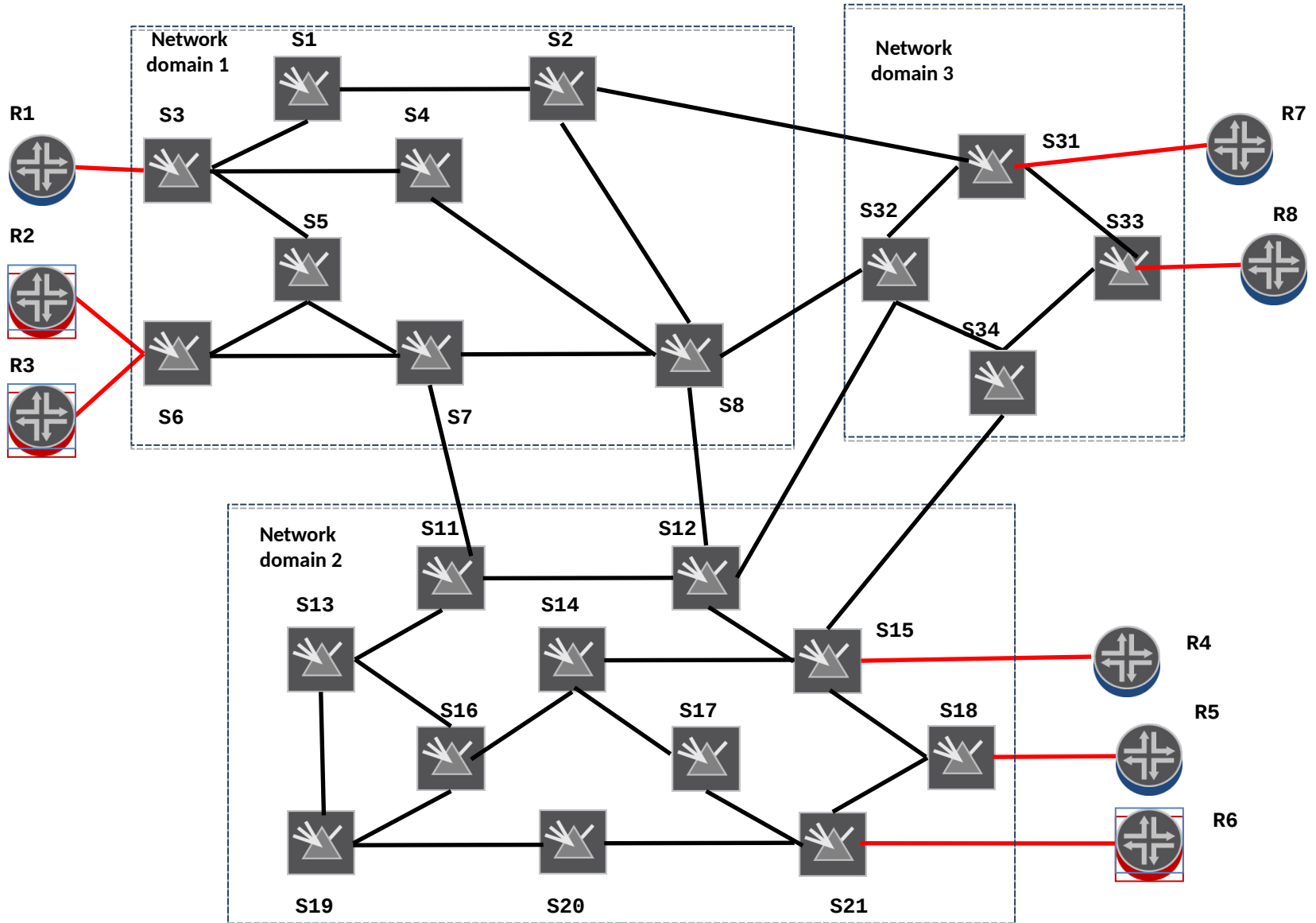
# Transport NBI DT

- Design Team's Goals and Deliverables:
  - Develop use cases and gap analysis
    - Identify a set of technologies use cases and providing a gap analysis against existing models
  - Identify missing models or capability
  - Coordinate requirements with appropriate WGs
    - Including TEAS, RTGWG and CCAMP itself
  - Providing guidelines in terms of how all the related models can be used in a step-wise manner
    - Using a couple of well identified transport network use cases
- Working methods
  - Mailing lists & Conference calls
  - GitHub: <https://github.com/danielkinguk/transport-nbi>

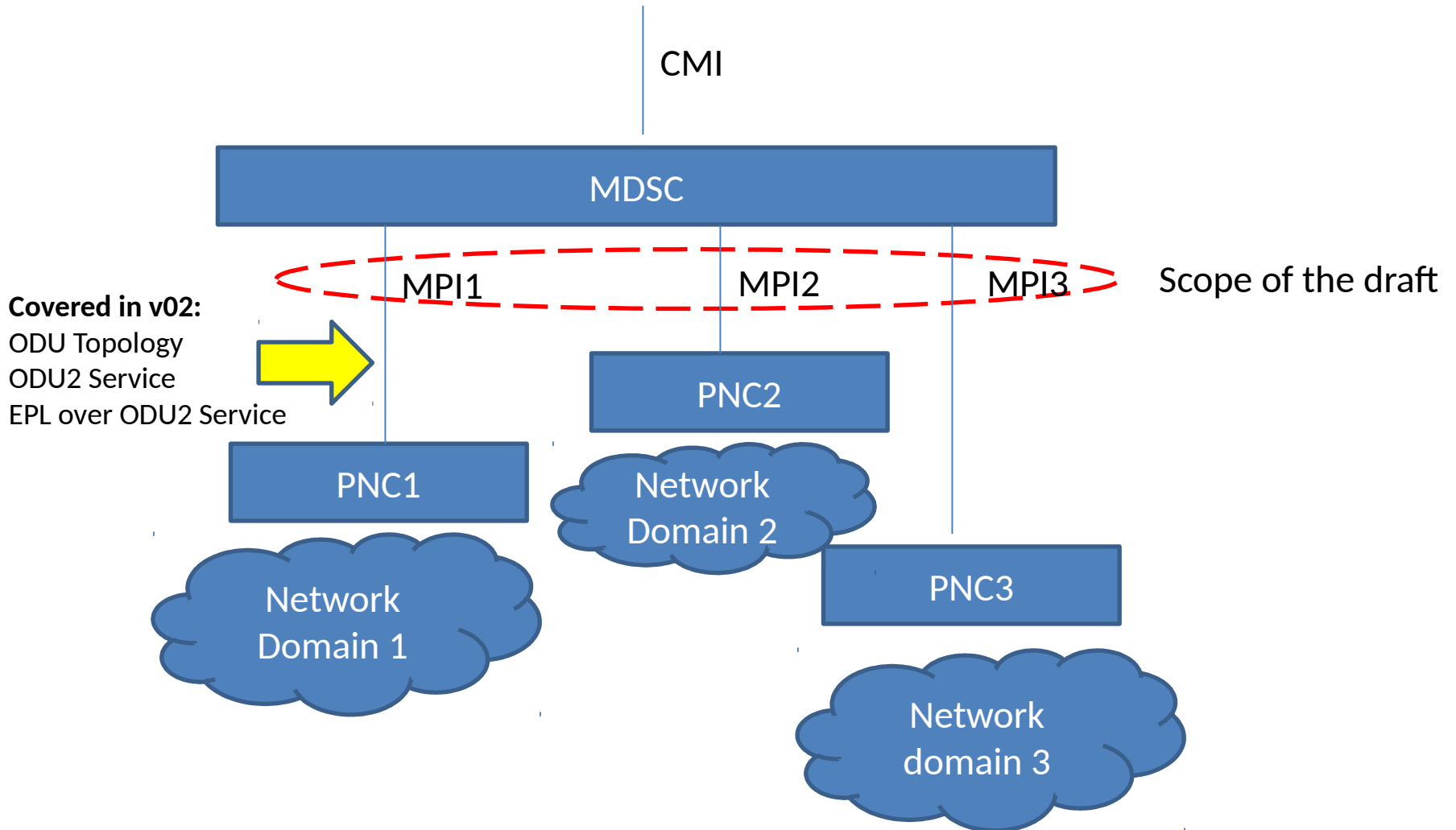
# Transport NBI Applicability Statement

- I-D Reference: [draft-ietf-ccamp-transport-nbi-app-statement](#)
  - Analyse applicability of IETF YANG models for controlling multi-domain OTN network
    - Scenario description is generic and agnostic to the YANG model definitions
  - Analyses applicability of the IETF YANG models
  - Provides JSON code examples
  - Covering MPI between MDSC and multiple PNCs
    - Topology Abstraction
    - Service Configuration
    - Protection and Restoration Configuration
    - Service Modification

# Reference Network



# Control Hierarchy

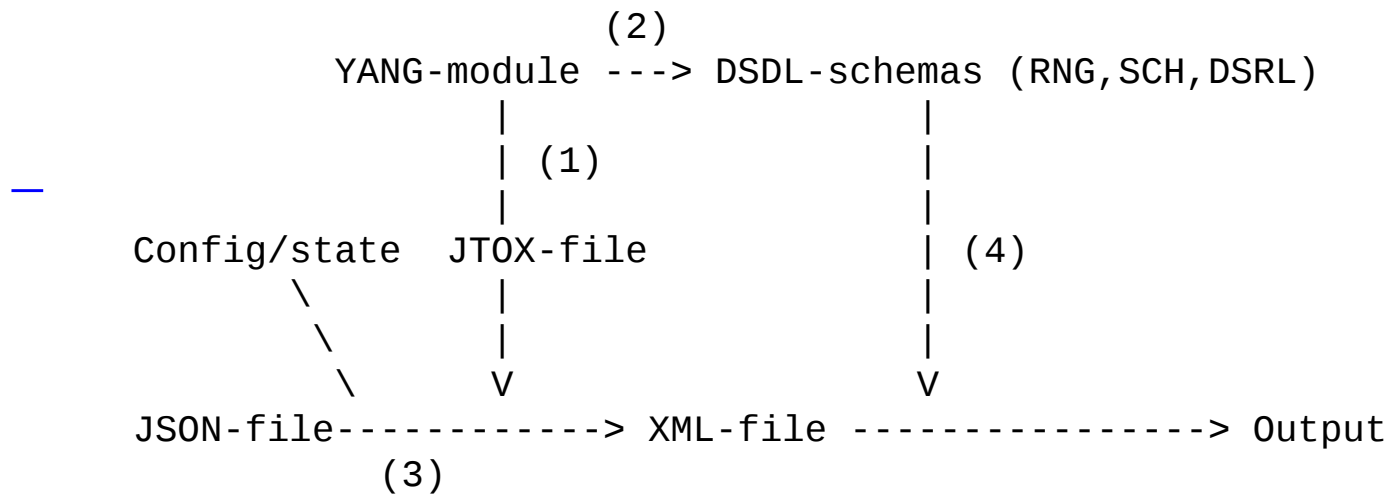


# YANG models analysed in v02

- TEAS WG
  - TE Topology (draft-ietf-teas-yang-te-topo-15)
  - TE Tunnel (draft-ietf-teas-yang-te-15)
- CCAMP WG
  - OTN Topology (draft-ietf-ccamp-otn-topo-yang-02)
  - OTN Tunnel (draft-ietf-ccamp-otn-tunnel-model-02)
- Individual (CCAMP WG)
  - ETH Client (draft-zheng-ccamp-otn-client-signal-yang-02)

# JSON Code Validation

- JSON code examples in the draft are validated for compliance with the referenced YANG models:



<https://github.com/mbj4668/pyang/wiki/XmlJson>

- JSON code folded to fix I-D width requirements
  - Need to synch-up with Netmod WG draft: **xxx**
- Details in appendix B
  - Should we move it into a Netmod WG draft?

# Open Issues

- Prioritize the next example(s)
  - EVPL and/or multipoint Ethernet services?
  - Multi-function access links?
  - Protection/restoration?
  - Service modification?
- Identifiers for Topology Elements (I2RS and TE)
  - Different proposals under discussions: need to meet both TEAS and I2RS requirements
  - Should we propose a Best Practice for TNBI?
  - Need to register a URN/URI to indicate the semantics of the structure used by a topology identifier?
  - <https://github.com/danielkinguk/transport-nbi/pull/10>



# Next Steps

- Publish v03 of [draft-ietf-ccamp-transport-nbi-app-statement](#)
  - Address open technical issues
  - Align text with the TE tutorial
  - Complete examples for ODU2, EPL and other client service configuration
  - Add other examples (based on priority)
- Face-to-face T-NBI team planned during IETF 102