



# APPLICABILITY OF YANG MODELS FOR ACTN

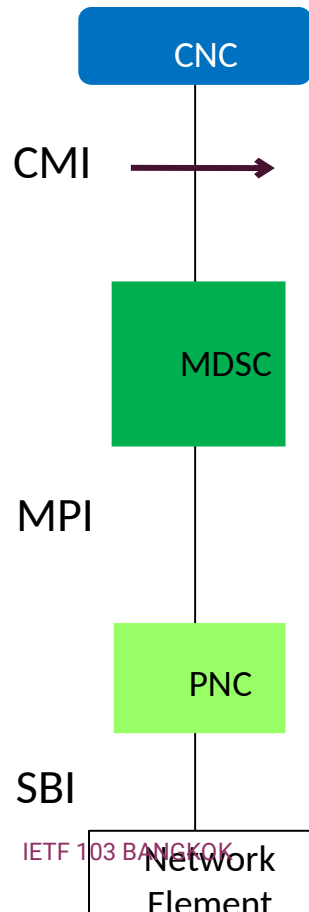
DRAFT-IETF-TEAS-ACTN-YANG-02

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# STATUS AND MAIN CHANGES

- Update after WG adoption
- Motivation: How different types of YANG models are applicable to the ACTN.
- Main changes:
  - Clarify the abstraction/PM description, and fix previous issues;
  - Provide description on how multi-vender inter-op can be achieved via ACTN;
  - Link to more related drafts (Layer 1/2/3 Service Model, etc. )
  - Adding the description about SBI (southbound interface between PNC and device)

# CMI AND CUSTOMER SERVICE MODEL

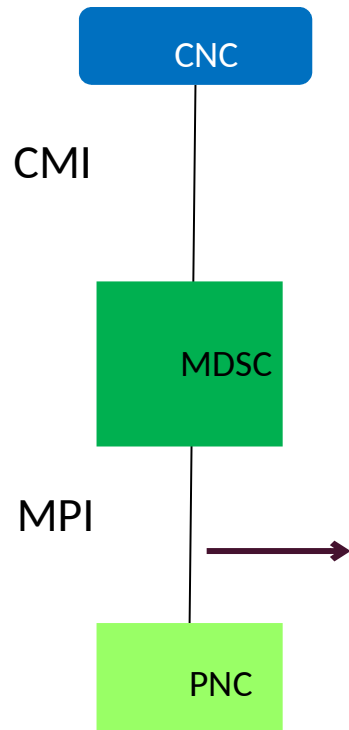


**CMI: Serve for the network users**

**Example Scenario: VN Provisioning and DCI Interconnection**

Function	Yang Model
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VN Service Request	[ACTN-VN-YANG]
VN Computation Request	[ACTN-VN-YANG]
TE & Service Mapping	[TE-Service-Mapping]
VN Performance Monitoring Telemetry	[ACTN-PM-Telemetry]
Topology Abstraction	[TE-topology]
<b>Layer 1 Connectivity Service Model</b>	<b>[L1CSM]</b>
<b>Layer 2 VPN Service Model</b>	<b>[RFC8466]</b>
<b>Layer 3 VPN Service Model</b>	<b>[RFC8299]</b>

# MPI AND NETWORK CONFIGURATION MODEL



**MPI: Focused on Network Configuration and Inter-op**

**Example Scenario: Multi-domain Topology Abstraction and Connection Provisioning**

Function	Yang Model
-----	
Configuration Scheduling	[Schedule]
Path computation	[PATH_COMPUTATION-API]
Tunnel/LSP Provisioning	[TE-Tunnel]
Topology Abstraction	[TE-topology]
Client Signal Description	[Client-signal]
Service Provisioning	TBD*
----- TECHNOLOGY SPECIFIC -----	
OTN Topology Abstraction	[OTN-Topo]
WSON Topology Abstraction	[WSON-Topo]
Flexi-grid Topology Abstraction	[Flexigrid-Topo]
<b>Microwave Topology Abstraction</b>	<b>[MW-Topo]</b>
ODU Tunnel Model	[ODU-Tunnel]
WSON TE Tunnel Model	[WSON-Tunnel]
Flexi-grid Tunnel Model	[Flexigrid-Tunnel]

## SUMMARY & NEXT STEPS

- This document says how to build ACTN interfaces via IETF YANG models;
- The related models are becoming Stable as well as this draft for fundamental functionalities;
- Ready for the Last Call;