

CCAMP update

- YANG models:
 - Optical networks: Wavelength Switching
 - L0 types (RFC9093) – common data types and grouping in YANG. To be imported for WSON and FlexiGrid. Working on a BIS to include transponders and impairment awareness.
 - WSON topology (RFC9094) – TE topology in wavelength switched optical networks.
 - WSON tunnel model (WG) – model for WSON tunnels
 - Flexi grid topology (WG) – module to support flexi-grid optical networks.
 - Flexi grid tunnel (WG) - module to support flexi-grid tunnels.
 - **Optical impairments topology YANG (WG) – module to support impairments aware optical networks.**
 - DWDM interface parameters: module to support optical interface parameters for an external transponder in a WDM network
 - OTN networks: Electrical layer of optical network (TDM)
 - L1 types (WG) – common data types for OTN networks.
 - OTN topology (WG)
 - OTN tunnel model (WG)
 - **OTN slicing (alignment with TEAS in progress)**
 - Microwave networks:
 - Microwave radio link (RFC8561)
 - **Microwave topology (WG)**

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- YANG models cont'd:
 - Services
 - L1CSM (WG) - YANG data model for Layer 1 Connectivity Service Model (L1CSM). Can be utilized by a customer network controller to initiate a service request or retrieve service states in a L1 network.
 - Client signals and topologies
 - YANG model for client signals (WG) - Describes how the client signals are carried over transport network and defines YANG data models which are required during configuration procedure. E.g ETH, STM-n, FC
 - YANG model for Ethernet TE topologies (WG) – Describes the topology of Ethernet with TE as client network of the server transport network.
 - Network inventory (alignments with other WGs needed?)
 - Network inventory YANG: Data model for network hardware inventory

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- Other topics
 - Applicability of GMPLS to OTN networks beyond 100 G (WG) – No extension required, just applicability statement.
 - Transport NBI applicability statement: Analysis of the applicability of the YANG models defined in TEAS and CCAMP to support ODU services, transparent client services and EPL/EVPL Ethernet services over OTN single and multi domain scenarios.
 - LMP (CCAMP owned protocol for Link Management)
 - Extensions to LMP for DWDM optical line systems to manage the application code of optical interfaces
 - Flexi grid
 - Optical2cloud problem statement: Problem Statement and Requirements of Accessing Cloud via Optical Network

OTN slicing (alignment with TEAS)

- Option 1: IETF-NSC --> PNC.
- Option 2: IETF-NSC --> OTN-SC --> PNC.
- Option 3: Orchestrator --> OTN-SC --> PNC

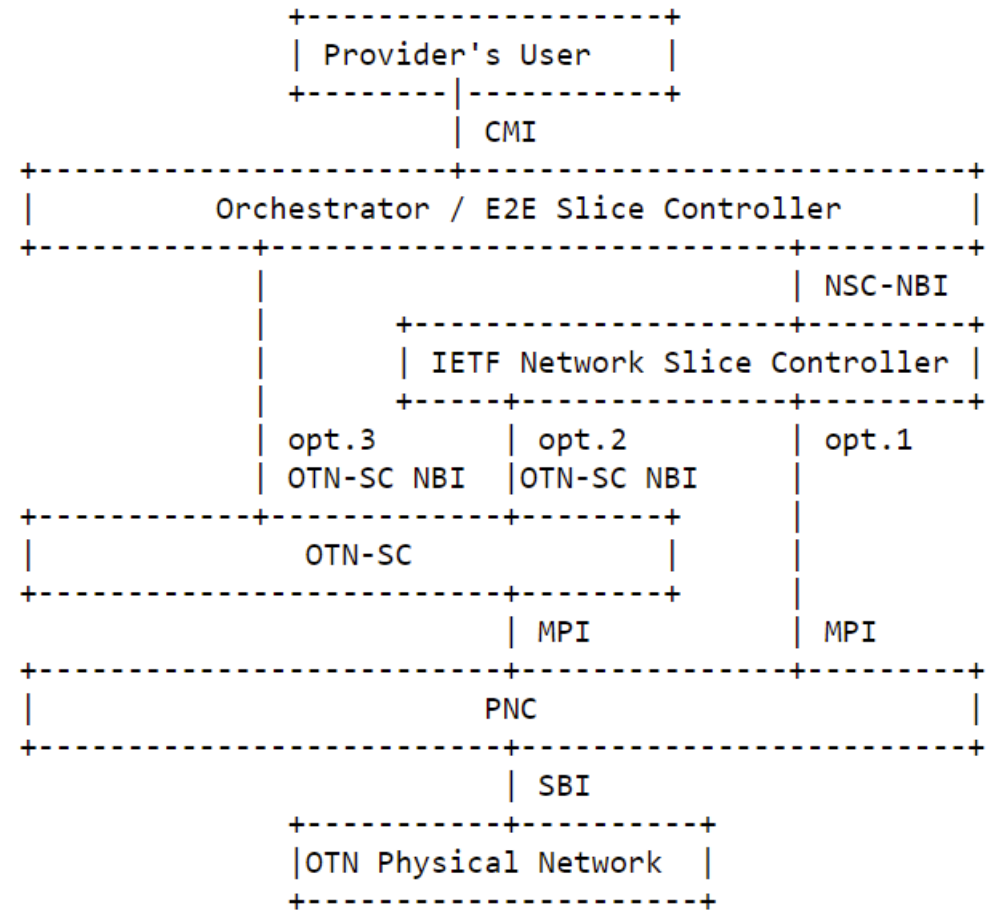
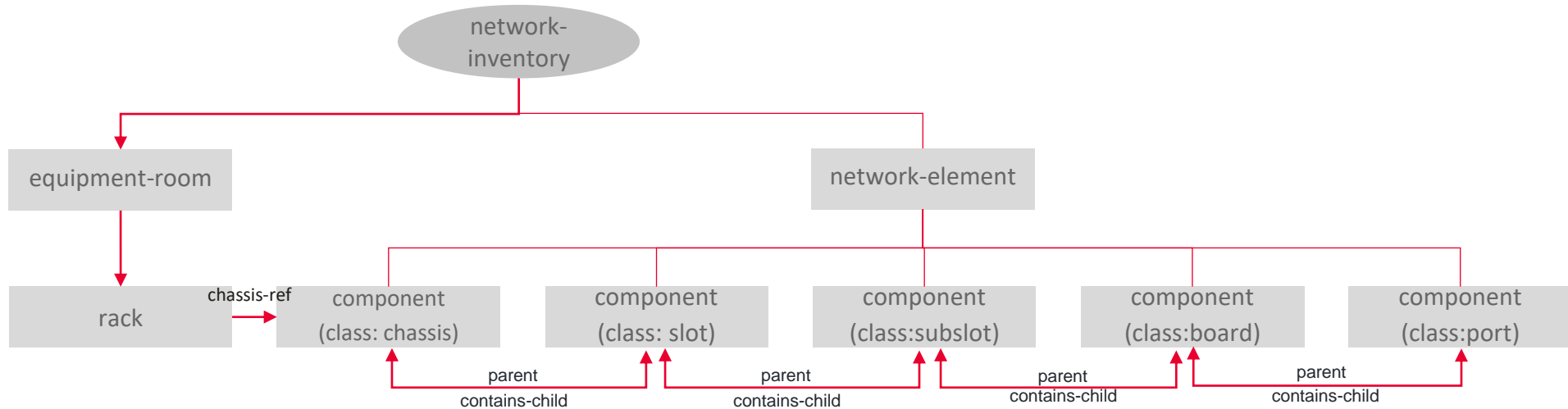


Figure 2: Positioning of OTN Slicing Interfaces

Network inventory (alignment needed?)



This document defines a YANG data model for network hardware inventory data information.

The YANG data model presented in this document is intended to be used as the basis toward a generic YANG data model for network hardware inventory data information which can be augmented, when required, with technology-specific (e.g., optical) inventory data, to be defined either in a future version of this document or in another document.

Milestones: to be updated

Milestones

Date	↕ Milestone
Sep 2021	Submit Info Model for WSON with impairments validation to IESG for review
Jul 2021	Submit YANG modelling for flexi grid draft to IESG for review
Mar 2021	Recharter or close Working Group

Next step: to be reviewed and updated