

A YANG model to manage the optical interface parameters for an external transponder in a WDM network

[draft-dharini-ccamp-dwdm-if-param-yang-02](#)

[draft-galimbe-ccamp-iv-yang-03](#)

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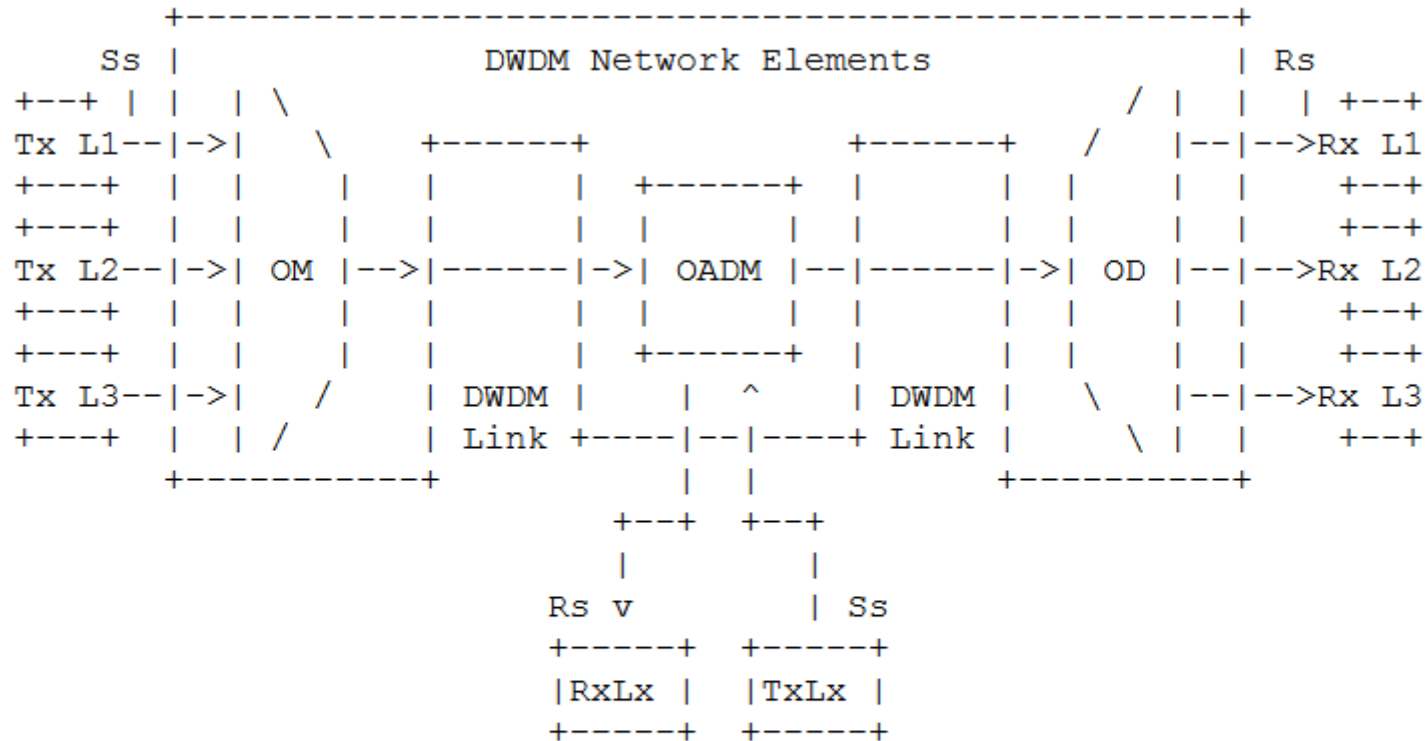
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Document History

- IETF 90: First Draft presented to netmod WG
- IETF 91: Align yang model with SNMP draft
- IETF 92: incorporate Yang doctor's suggestions
- IETF 93: Alignment with discussions at IETF 92
- IETF 94: replaced draft-dharini-netmod-g-698-2-yang-04 by
draft-dharini-netmod-g-698-2-yang for a more generic approach
- IETF 95: switched to draft-dharini-netmod-dwdm-if-yang, reducing
dependency from progress in non-IETF standard bodies
- IETF 96: deciding to go for experimental, given the lack of standards
- IETF 96: presented draft-galimbe-ccamp-iv-yang, for Optical Parameters
- IETF 97: Experimental draft in conjunction with a problem statement
- IETF 98: Introducing mode parameters

External Transponder Model



Ss = reference point at the DWDM network element tributary output
 Rs = reference point at the DWDM network element tributary input
 Lx = Lambda x
 OM = Optical Mux
 OD = Optical Demux
 OADM = Optical Add Drop Mux

Motivation & Problem statement

Problem:

- Coherent transceivers not covered by standards today → draft status is experimental
- Supporting several combinations of parameters with interdependency between each other
- Current YANG models do not support the planning aspect allowing to select the best parameter combination
- Yang models definition according to existing draft like: draft-ietf-ccamp-wson-iv-info, draft-martinelli-ccamp-wson-iv-encode and RFC6566

Motivation:

- Provide a consistent way to plan and operate wavelength Interfaces with netconf/yang
- More about the problem and motivation can be found in: [draft-many-coherent-dwdm-if-control-01](#)

Changes from the previous version

- [draft-dharini-ccamp-dwdm-if-param-yang-02](#)
 - Corrected few typo
 - Changed OADM into ROADM
 - added/removed reference documents
- [draft-galimbe-ccamp-iv-yang-03](#)
 - Corrected few typo
 - Changed OADM into ROADM
 - added/removed reference documents
 - Removed some parameter from the schema

Next Steps

- Keep alignment with related effort in CCAMP
- Keep alignment to **draft-ietf-ccamp-wson-iv-info** and **draft-martinelli-ccamp-wson-iv-encode**
- Keep focus on operational aspects
- Address feedbacks