

# Modelling & Gap Analysis of Optical Pluggables in Packet Over Optical Network

**draft-rokui-ccamp-actn-wdm-pluggable-modelling-01**

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# Coherent Pluggables Yang Data Model

## Overall Objectives

**Coherent Pluggables Yang Data Model** is one of the major goal of the Coherent Pluggable activity among Operators & Vendors

1. We need to **quickly finish the Google Sheet Attributes**
  - (Capabilities + Config + PM/States)
2. **Gap analysis**: When done with Google Sheet, we have to identify the missing parameters in current IETF Yang models
  - In term of semantic instead of syntax
3. After Gap analysis, **incorporate the missing coherent pluggable attributes** (in terms of Semantic) using:
  - Adding the missing attributes (Capability, Config, PM/States) to Existing IETF YANG models thru Augmentation/Bis/Update
4. The syntax discussion of existing / missing optical attributes will then be addressed to complement item 3 above.

# Rev-01 Changes At-A-Glance

1. Thanks to those who provided suggestions/recommendations.
  - Their suggestions are incorporated
  - Rest will be incorporated
2. Improvement in Section 5: Optical Pluggables Data Modeling for (based on Google Sheet work)
  - Coherent Pluggable Capability + Config + PM/State Attributes
  - Coherent Pluggable Threshold Definition
  - Support of Vendor-Specific Attributes (Capability / Config / PM data). **For future study.**
3. Continue working on Section 7. Coherent Pluggable Data Modeling Gap Analysis
4. Based on Gap analysis, this section will be populated Section 6: Coherent Pluggables **(for study)**
5. Improvement to Section 8: Coherent Pluggable Manifest **(Needs further study/discussion)**
6. A few more contributes are added

# Coherent Pluggables Attributes

## Where are we with Google Sheet?

Weekly meeting to discuss:

- Capability R/O Attributes
- Config R/W Attributes
- PM/State R/O Attributes

### Next Step:

- Work in progress (almost done with 1<sup>st</sup> round of Capability Attributes)
- The goal is to finish the first version of Coherent Pluggable Google Sheet very soon

Link to online coherent pluggable Google Sheet

<https://docs.google.com/spreadsheets/d/1atqBARO76hzRp5ETHzsOYLsfabHQBulf0AtbVAMV66A/edit?gid=570905525#gid=570905525>

# Coherent Pluggables Gap Analysis

**Gap Analysis is other major goal of the Coherent Pluggable activity**

- Syntax gaps: Naming inconsistency on existing IETF drafts
  - We need to investigate Potential syntax gaps between various IETF drafts
  - We need to investigate Potential syntax gaps between IETF drafts & other organizations
  - Propose solution after finishing other attributes in Google sheet
- Other gaps : ??

**Next step: Will continue after finishing Google sheet**

# Support of Vendor-Specific Attributes

## Important aspects which should be addressed in the draft

- Both Pluggable and Host need to be involved
- For Vendor-Specific Capability + Config + PM/States Attributes)

Next step: For further study ??

# Next Steps for Coherent Pluggable Activity

1. Finish the first version of **Coherent Pluggable Google Sheet** soon
2. After finishing Google Sheet, start Coherent pluggable data modelling **gap analysis**
3. Based on outcome of Gap analysis, **address the pluggable attributes** (As discussed in previous slides) thru augmentation/Bis/Update
4. Incorporate the changes/suggestions & issue v02
  - It is OK if it contains work in-progress items as long as they are clearly marked in v02
5. **Then start WG Adoption**

**Thank You !**