

# Data Modelling and Gap Analysis of Optical Pluggables in Packet Over Optical Network

[draft-ietf-ccamp-actn-wdm-pluggable-modelling](#)

(Along with Google Sheet for Optical pluggable attributes)

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# Progress and activities since IETF 123

- WG adoption (see [draft-ietf-ccamp-actn-wdm-pluggable-modelling-00](#))
- Work is on github at <https://github.com/ietf-ccamp-wg/actn-wdm-pluggable-modelling>
- On-going weekly calls working further through detail
- Continuing the [Google Sheet](#) activity to finalise pluggable attributes identified as gaps
  - Capability attributes have essentially been completed
  - Configuration attributes and PM/State attributes are being worked on to close remaining issues
- Continuing the Coherent pluggable Gap Analysis, refining/defining the pluggable attributes identified as gaps (see 2 Next Slides)
  - Second pass of gap analysis completed
  - Beginning to provide guidance on how to address the Gaps

# Coherent pluggable Gap Analysis – recap

- The goal is to reuse the existing IETF yang models and identify any gaps that need to be addressed
  - The work of the group complements existing drafts and other work
  - If we all agree there is no existing model that is appropriate, we start a new model
    - We do NOT see a reason for a new model at this point
- The solution to address Coherent Pluggable GAPS agreed on weekly meeting:
  - Start with latest draft-ietf-ccamp-dwdm-if-param-yang
  - Add to this model all attributes of the pluggable as appropriate
    - Capabilities, Config and PM/States attributes
- Observation: the work on the pluggable has focused on the “line side” (photronics etc.)  
The properties discussed are generally applicable
  - Further work in future will focus on other aspects of the pluggable

# Structure of pluggable draft

- Key subsection for Pluggable Gap Analysis (**The MAIN goal of of this draft**)
  - Contains a list of Gaps (divided between capability, config and state/PM attributers)
  - Provides guidance on how to fill the gaps
  - Relates the work of this activity to the Operator's use-case document
- If the pluggable gap analysis activity finds gaps in **other IETF works** (NOTE that this activity would be extra work)
  - The operator's use-case document should be used for this work.
  - Introduce new subsections for each area
  - For example, GAP Analysis for DWDM tunnels, services etc.
  - Create a subsection in draft of each of these GAP analysis
  - If we need to do this work, we need to assign people to each subsection

# Ongoing

## Next Steps

- Further refinements of gap analysis of Coherent pluggable data & Provide guidance on how to address these Gaps
  - In parallel, work on Google Sheet to close any remaining open issues
- Develop Yang model enhancements for properties that have been agreed
- Work on other aspects of pluggables

## Potential related activities (not in scope of group mandate)

- In parallel, if desired, expand the Gap Analysis to other IETF work (e.g., DWDM tunnels)
  - This would require an enhancement to work scope
  - People would need to be assigned to that work
  - New sections would be added to draft to address Gaps & Guidance

**Thank You !**