

draft-dharinigert-ccamp-dwdm-if-Imp-03  
draft-ggalimbe-ccamp-flex-if-Imp-01

## IETF 98 – CCAMP WG

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# LMP Considerations

- LMP covers the discovery/parameter-negotiation use case
- LMP is not used for configuration or provisioning and there is no mentioning of configuration or provisioning in these drafts
- Discovery determines the limitations of the single channel interface to a WDM line system
- The parameter extension to sson technology is needed
- Discovery determines the limitations of the multiple channel interface to a SSON line system

# Changes from the previous versions

1. draft-dharinigert-ccamp-dwdm-if-Imp-03
  - Cosmetic changes
2. draft-ggalimbe-ccamp-flex-if-Imp-01
  - First presentation of this draft although in -01

# Data Plane Reference Model

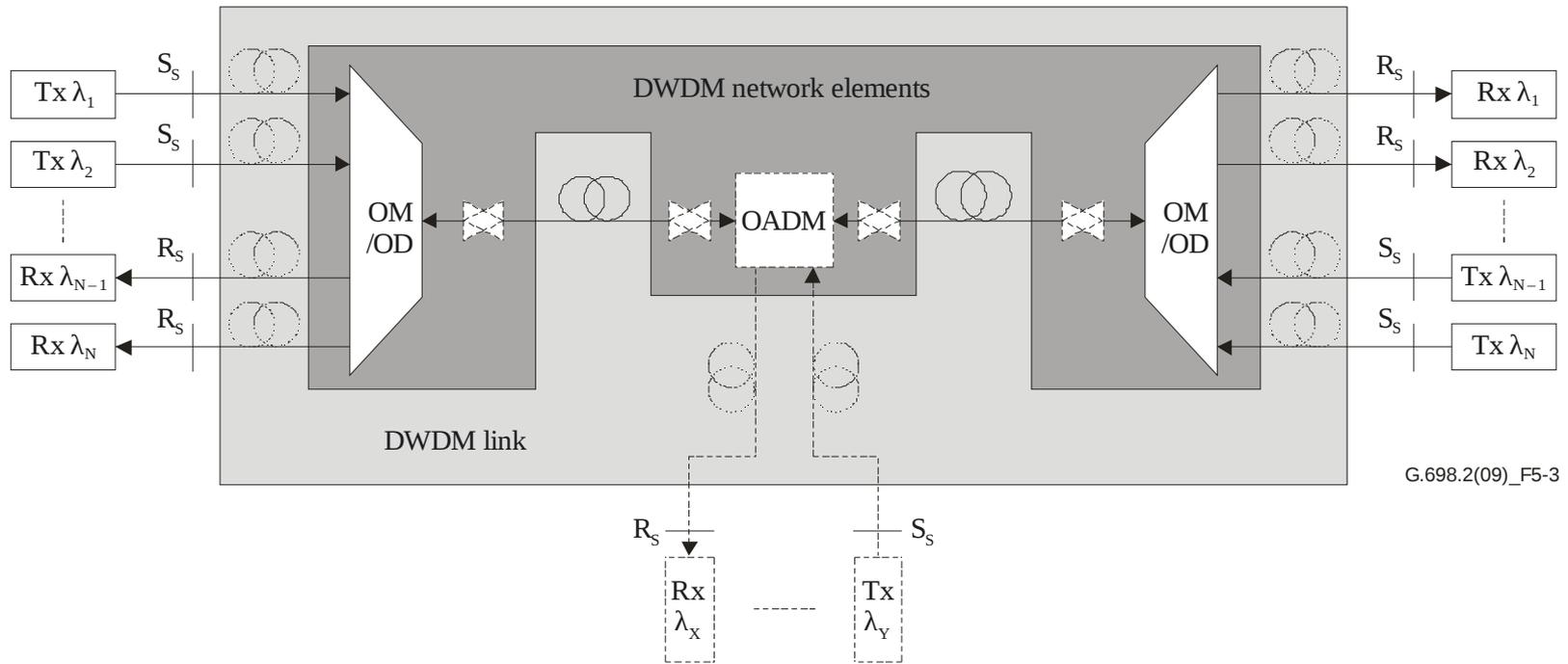


Figure 5-3 – Linear "black link" approach for bidirectional applications

# draft-dharinigert-ccamp-dwdm-if-Imp-03

What is defined here:

- Extension to the Link Management Protocol (LMP/DWDM -rfc4209) for Dense Wavelength Division Multiplexing (DWDM) Optical Line Systems to manage the application code of optical interface parameters in DWDM application
- Output Power
- Current Input Power

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The parameters added for SSON are:

- 1.Modulation identifier: indicates the Transceiver capabilities to support a single or multiple modulation format like: BPSK, DC-DP-BPSK, QPSK, DP-QPSK, QAM16, DP-QAM16, DC-DP-QAM16, QAM64, etc.
- 2.FEC: indicates the FEC types the transceiver can support
- 3.baud rate: number of symbols rate, basically this identifies the channel frequency
- 4.Number Carriers: number of subcarriers the transceiver can support and can be "mapped" in a Media Channel
- 5.Bits/symbol: number of bit per symbol (aka spectral efficiency)
- 6.Subcarrier band (minimum distance between subcarriers) in GHz required by the transceiver
- 7.Guard band (required guard band at the side of media channel)
- 8.Sub-carrier Power: output optical power the transceiver can provide
- 9.Sub-carrier OSNR robustness

# Next Steps

- Solicit feedback/comments from the group.
- Achieve consensus
- Go to WG document request

Keep in mind: LMP is not for configuration!

# Thank You!