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-lmp-03
   - Cosmetic changes

2. draft-ggalimbe-ccamp-flex-if-lmp-01
   - First presentation of this draft although in -01
Data Plane Reference Model

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