

Terminology Input

In Support of Comments #47, 48, 49, 51, 53, 56

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Introduction

- **Comments submitted noted lack of terminology**
 - **47: DWDM System is not defined**
 - **49: "black link" is not defined**
 - **51: DWDM link is not defined**
 - **53: add a definition for DWDM PHY**
 - **56: Add definition - DWDM Network**
- **Some definitions have been agreed to previously by Beyond 10km Study Group "Terminology" Ad hoc**
(http://www.ieee802.org/3/B10K/public/18_03/dambrosia_b10k_01_0318.pdf)

DWDM Link Types and Terminology

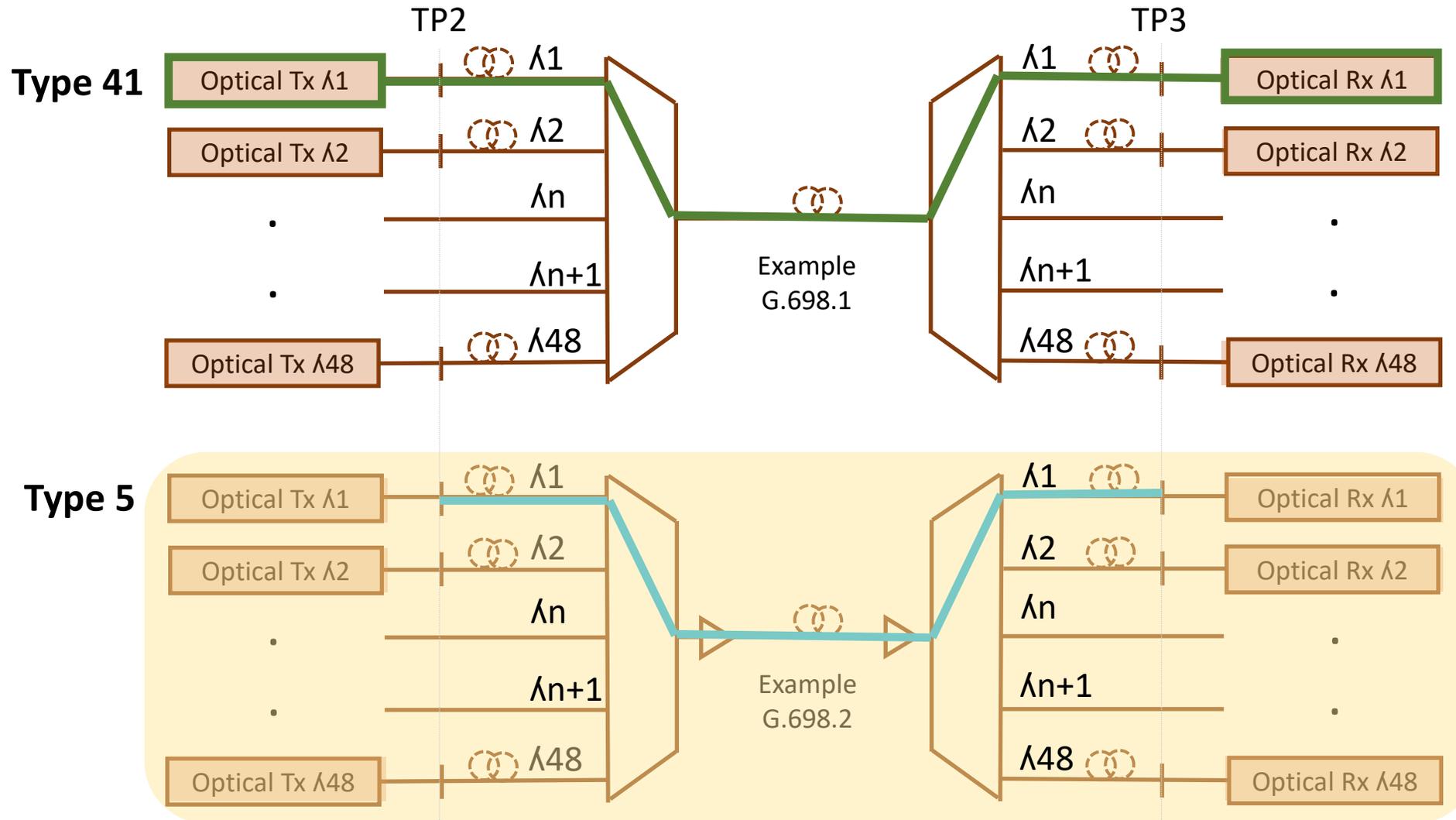
DWDM PHY:

DWDM Channel:

DWDM Link:

DWDM System:

Optical Links Type 4 & 5



Previously Agreed Definitions

- **From Terminology Ad hoc** (http://www.ieee802.org/3/B10K/public/18_03/dambrosia_b10k_01_0318.pdf)
 - **DWDM System**: An aggregate of DWDM links over either a single optical fiber or a single optical fiber per direction.
 - **DWDM PHY**: An Ethernet PHY that operates at a single wavelength on a defined frequency grid and is capable of running over a DWDM system
 - **DWDM Channel**: The transmission path between a DWDM PHY transmitting to another DWDM PHY
 - **DWDM Link**: One DWDM PHY transmitting to one other DWDM PHY through the transmission path between them
- **Recommendation –**
 - Insert into 1.4 existing definitions of DWDM System, DWDM PHY, and DWDM Link .
 - Insert into 1.4 DWDM Channel – The transmission path over a single wavelength on a defined frequency grid between a DWDM PHY transmitting to another DWDM PHY.

DWDM Network

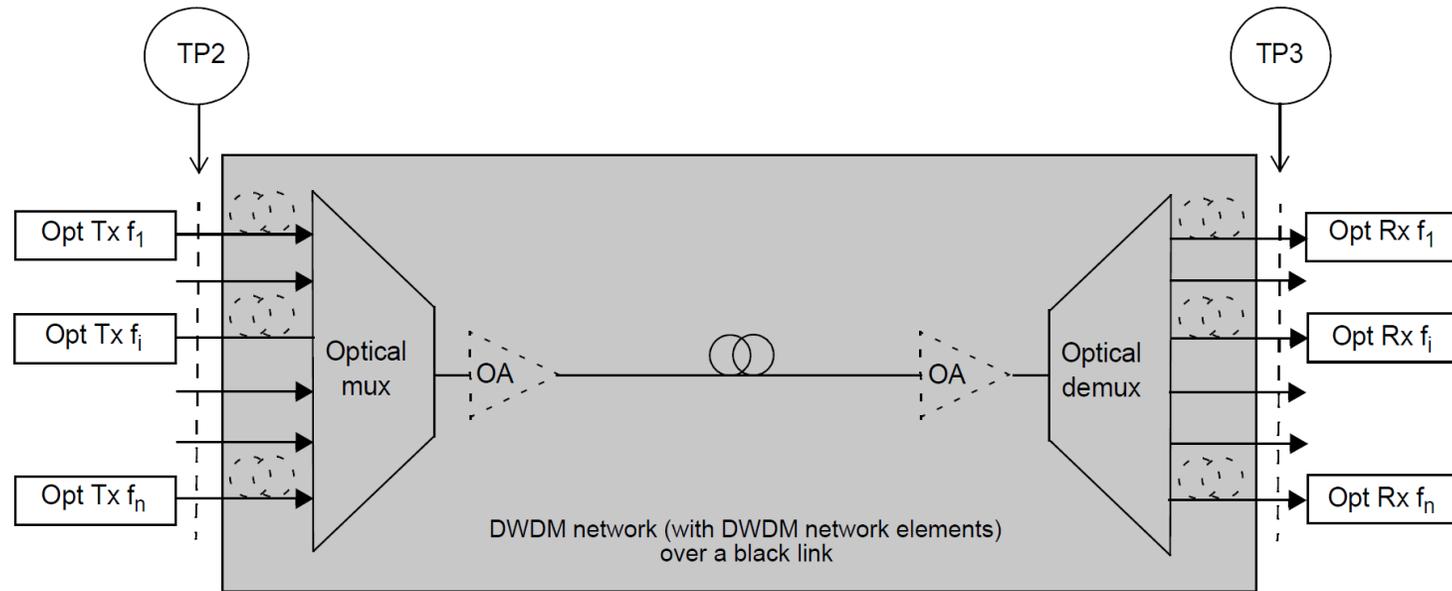


Figure 154–3—Block diagram for black link specification approach

In Fig 154-3 – a DWDM Network has been drawn essentially as a DWDM system minus the DWDM PHYs. Between PHYs is the DWDM Channel – so the DWDM network is the summation of all of the DWDM channels

Add to 1.4: DWDM Network – The aggregate of DWDM Channels associated with a given DWDM system.