802.3dj D1.0
Comment Resolution
Optical Topics

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Introduction

- This slide package was assembled by the 802.3dj editorial team to provide background and detailed resolutions to aid in comment resolution.

IEEE P802.3dj Task Force

Connector Labelling

Connector Labeling
Comments 590, 592, 587, 577, 589, 591

| CI **180** | SC **180.7.3.1.1** | P **360** | L **11** | # 590 |

Ghiasi, Ali   Ghiasi Quantum/Marvell

Comment Type   **T**   *Comment Status* **D**   *Connector labeling*

To support breakout, loopback, and OAN/OLT connectro should be labled

SuggestedRemedy

DR2-2 connector should be labled as Tx1Tx2 ------ Rx2Rx1

Proposed Response   *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
While the labeling modification as proposed was not part of the adopted Baseline Proposal
for Optical Link Training "OLT", it is necessary to support the adopted baseline.
Implement suggested remedy with editorial license.

The remaining comments are the same in requesting the addition of the Tx and Rx labels for the remaining DR2-x connectors in clauses 180, 181 and 182.
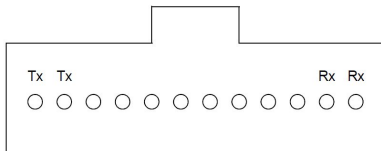The current figures do not include Tx and Tx labels

Figure 180–7—400GBASE-DR2 optical lane assignments

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Per motion #2 at the May interim, the task force adopted an OLT baseline per ghiasi_3dj_04a_2405 pages 3 and 4.
While the adopted baseline does not require connector labelling, an earlier presentation ghasis_3dj_1a_2405 page 13, states that connector labelling is a requirement for the support of OLT.

Optical OLT PMD Requirements

- **Transmit and receive must be grouped in duplex pairs PMDs to support optical loop back and breakout applications**
  - Current definition of optical PMDs
    - TX TX TX TX - RX RX RX RX
    - Was defined for connivence of routing any TX to RX lanes
  - We would need to define the optical PMDs as following
    - TX1 TX2 TX3 TX4 - RX4 RX3 RX2 RX1
    - Support breakout and optical loopback

Editor's recommendation:

Add connector labeling to all DR2-x connectors in clauses 180, 181 and 182 as suggested.