200.2 Super-PON Physical Medium Dependent (PMD) Sublayer and Medium

200.2.1 Overview

200.2 describes the Physical Medium Dependent (PMD) sublayer for Super-PON point-to-multipoint (P2MP) networks (see 200.1) operating at a MAC data rate of 10 Gb/s in the downstream direction and at a MAC data rate of 10 Gb/s or 2.5 Gb/s in the upstream direction. These PMDs are collectively referred to as Super-PON PMDs. Super-PON PMDs supporting the upstream MAC data rate of 10 Gb/s are referred to as symmetric Super-PON PMDs while Super-PON PMDs supporting the upstream MAC data rate of 2.5 Gb/s are referred to as asymmetric Super-PON PMDs.

200.2.1.1 Positioning of the PMD sublayer within the IEEE 802.3 architecture

Figure 200-2 depicts the relationships of the Super-PON PMD sublayer (shown hatched) with other sublayers and the ISO/IEC Open System Interconnection (OSI) reference model.

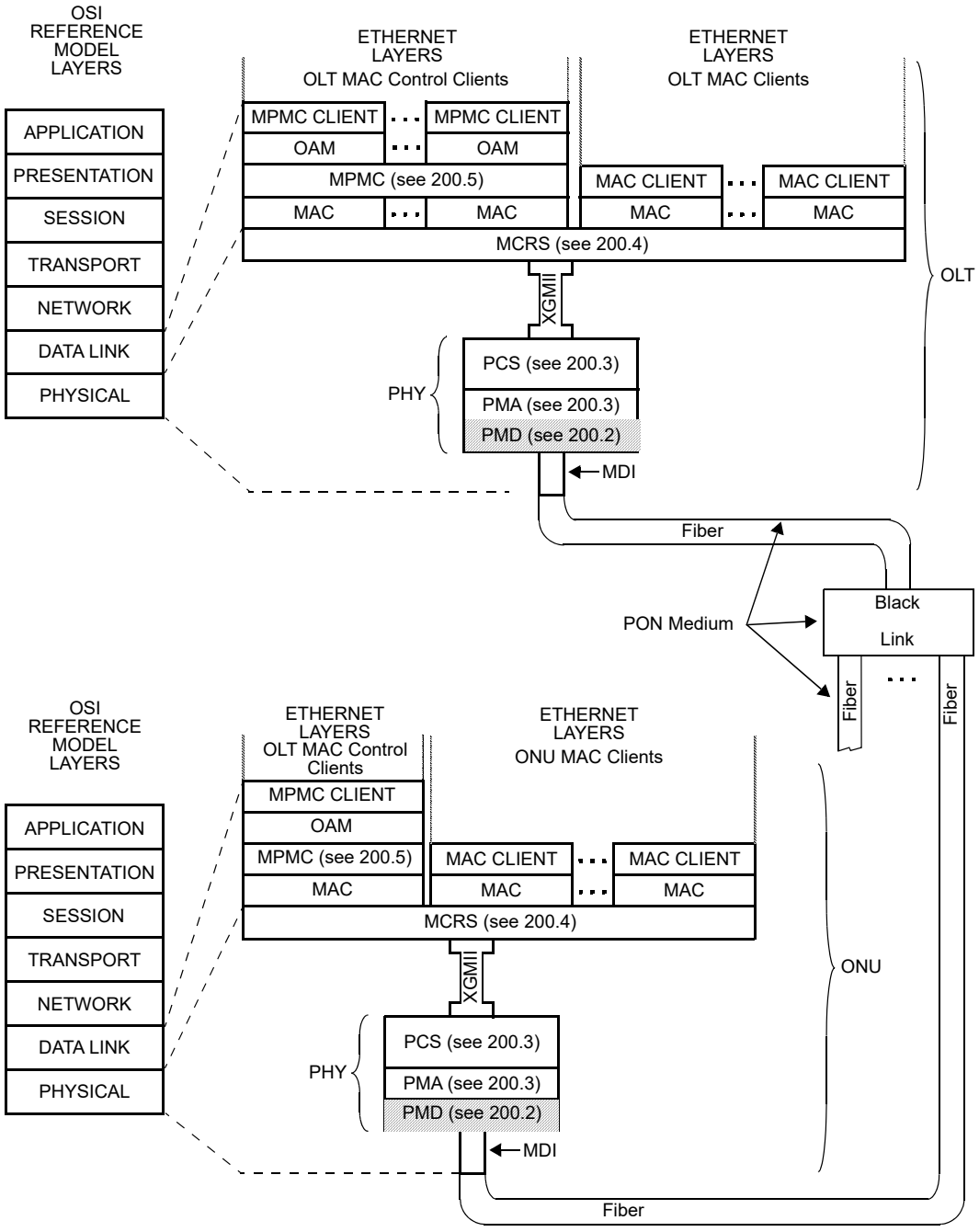

Figure 200–2—Relationship of Super-PON PMD to the ISO/IEC OSI reference model and the IEEE 802.3 Ethernet model