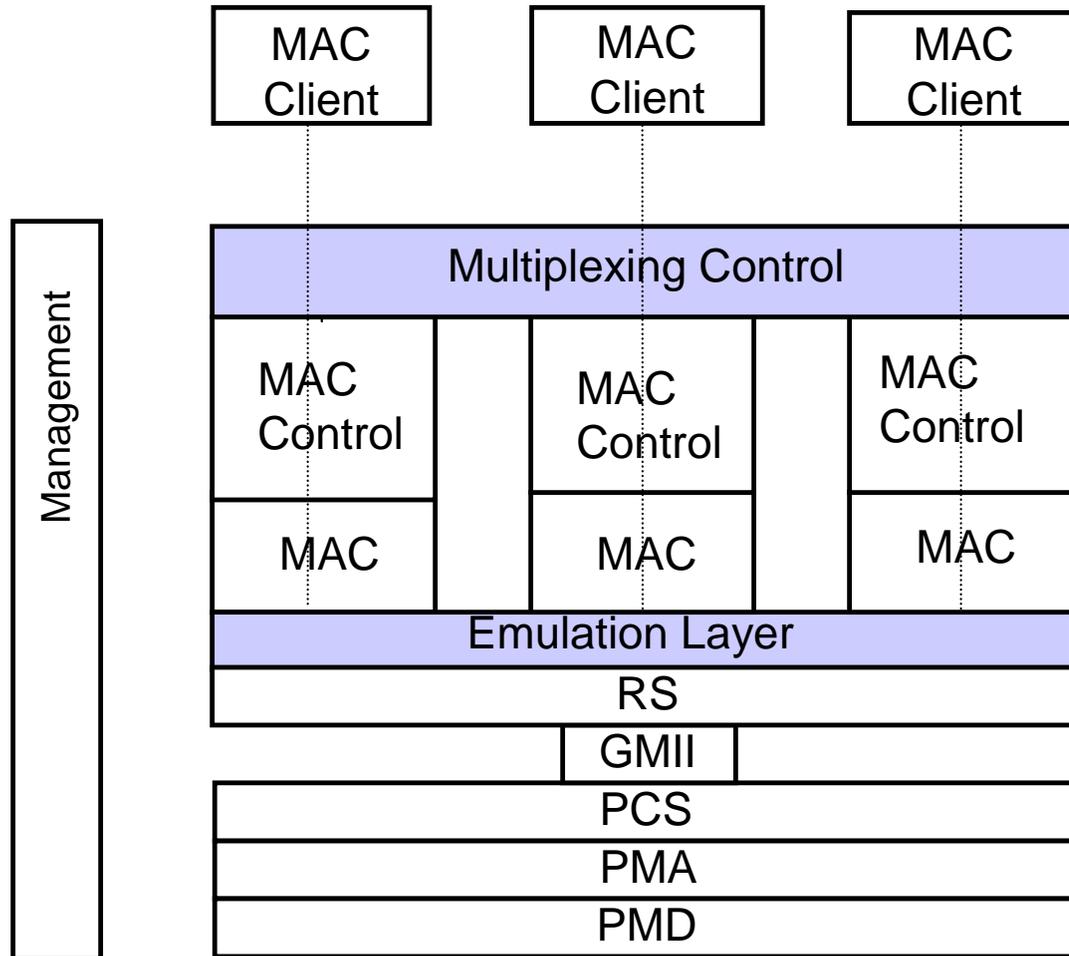


EPON Layering



ONU requires at least one MAC port, or optionally multiple MAC ports

Emulation Layer

- Emulation layer is responsible for:
 - Demultiplexing and tag stripping when packet goes from PHY to one of the MACs
 - Packet pass-through from MAC to PHY, and tagging based on MAC entity
 - Filtering at ONU when LLID does not belong to ONU

Multiplexing Control Layer

- A multiplexing function that guarantees only one frame (MAC or MAC control) exists below the layer at a time
 - Controls gating function of MAC control
 - Performs selection of MAC clients and MAC control clients
 - Selection algorithm is not specified
 - MAC control layer can not generate any frames unless gated

MPCP (Gating) positioning is similar to Link Aggregation sublayer

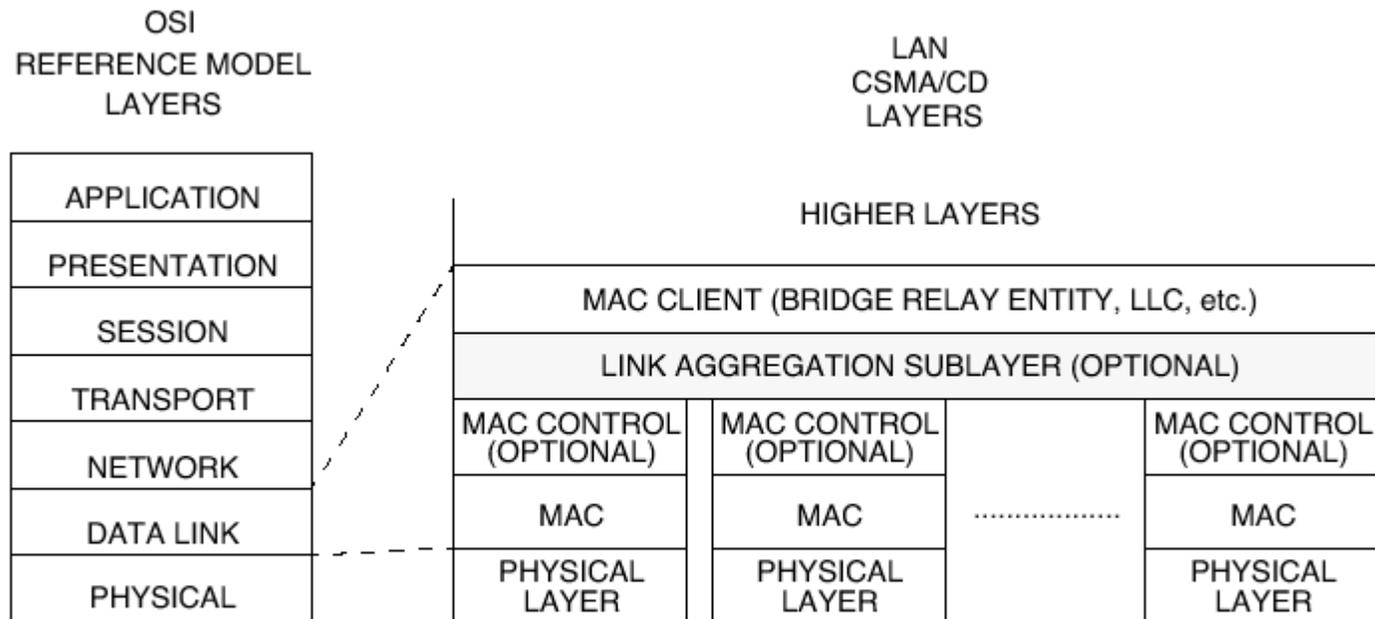


Figure 43-1 — Architectural positioning of Link Aggregation sublayer

Open issue to address

- Support of multiple LLID per ONU
- OLT can enforce granted LLID