

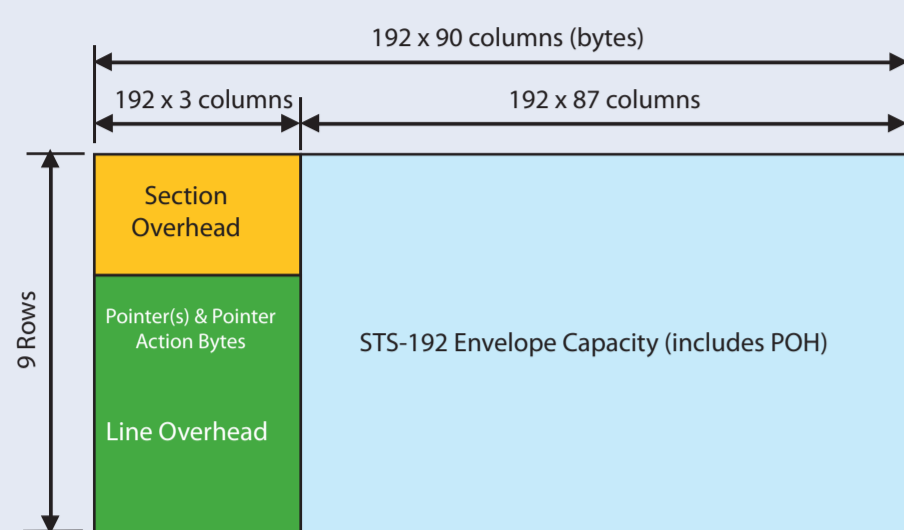


World of 10 Gbps – The Lower Layers

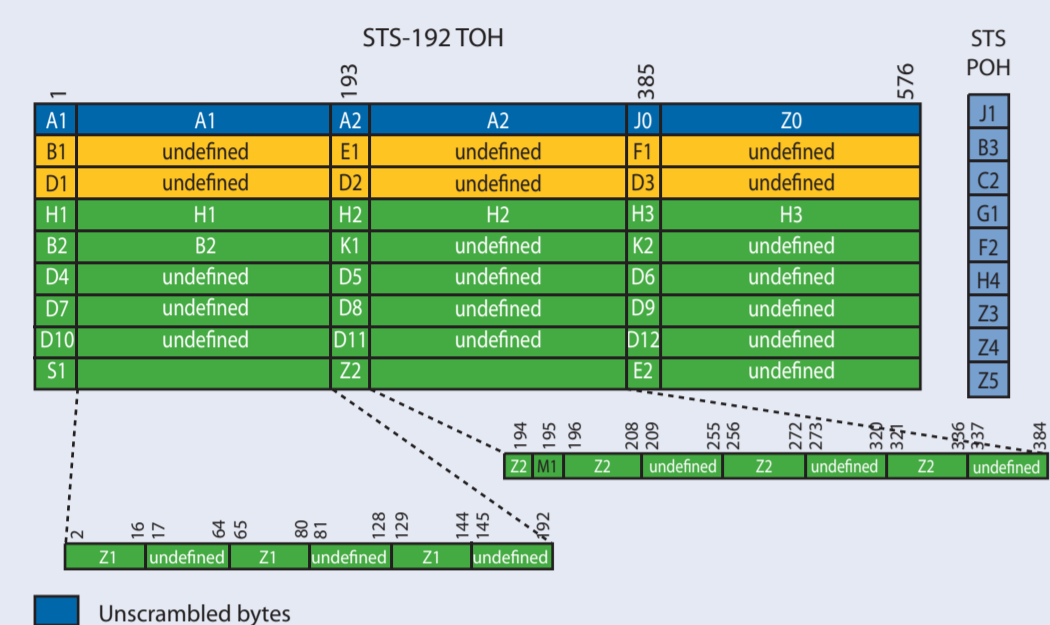


OC-192

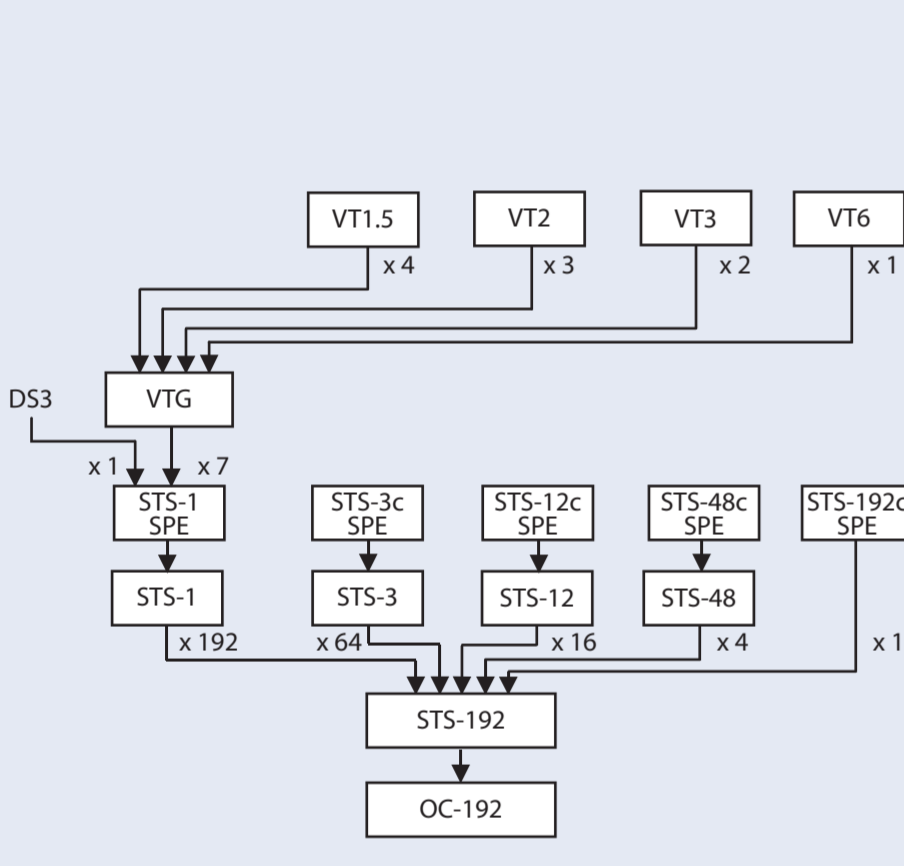
STS-192 Frame Structure



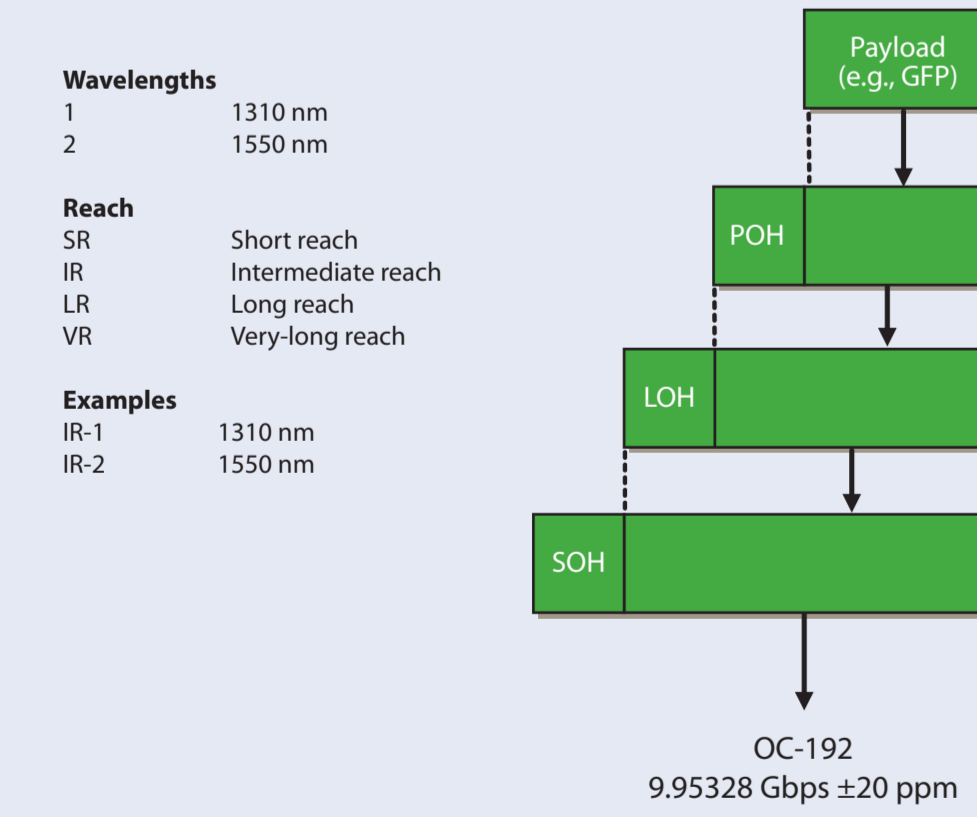
STS-192 TOH and STS POH



SONET Multiplexing Structure

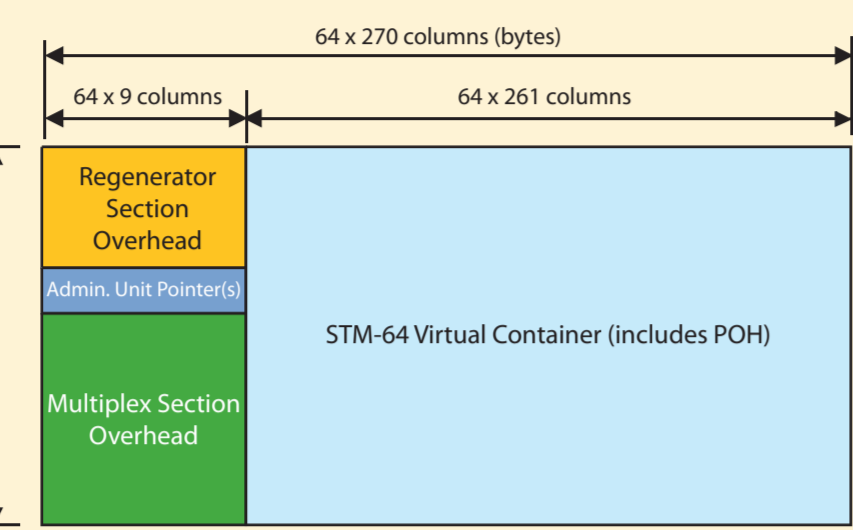


Signal Processing

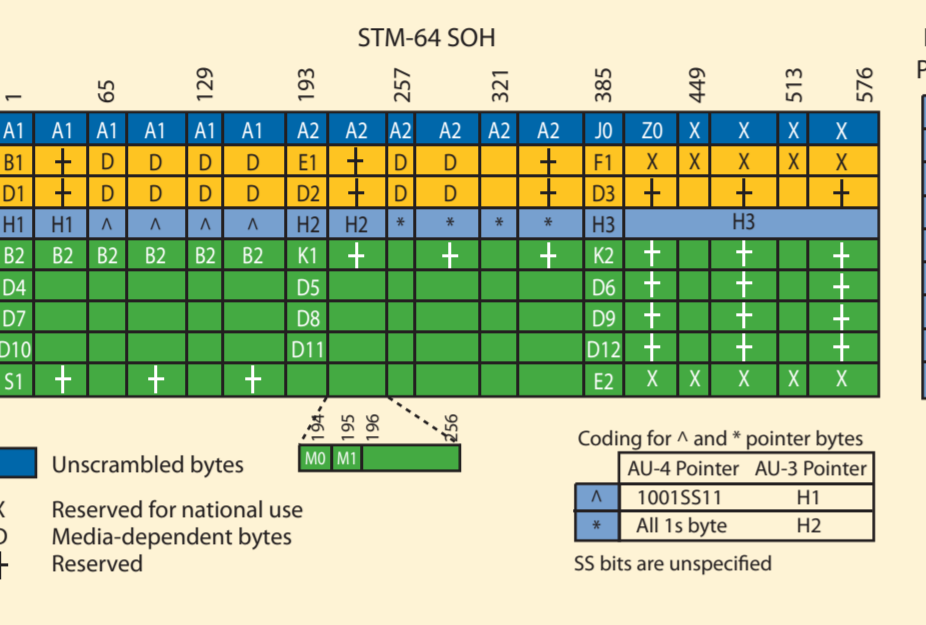


STM-64

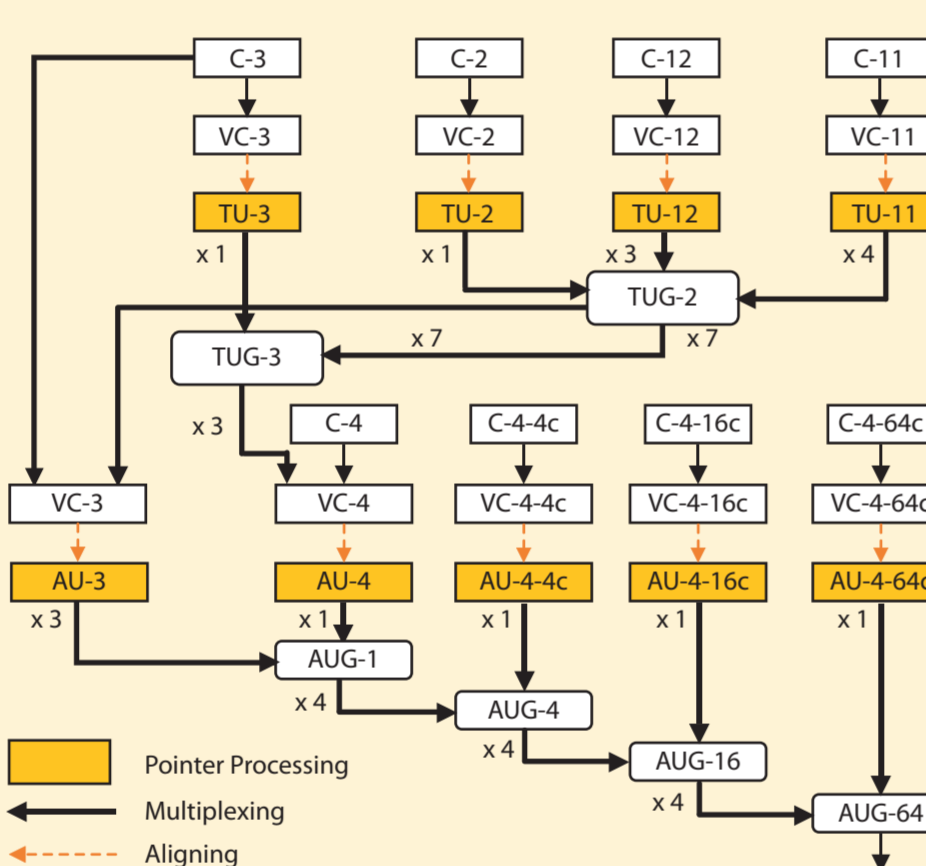
STM-64 Frame Structure



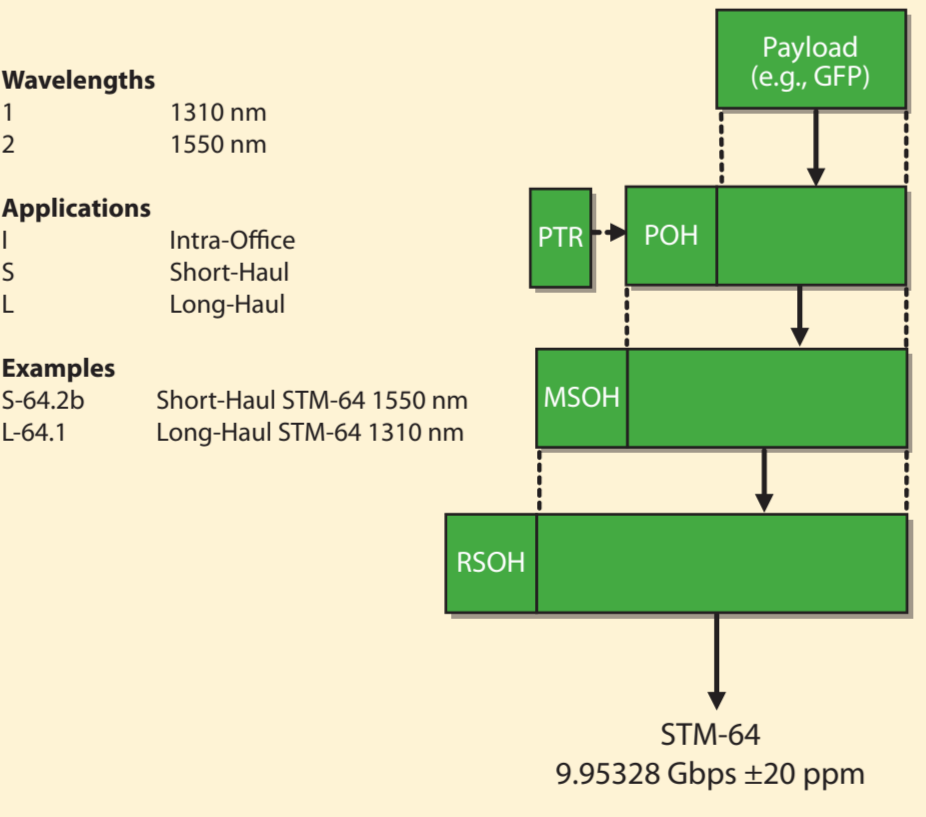
STM-64 SOH and Higher Order POH



SDH Multiplexing Structure

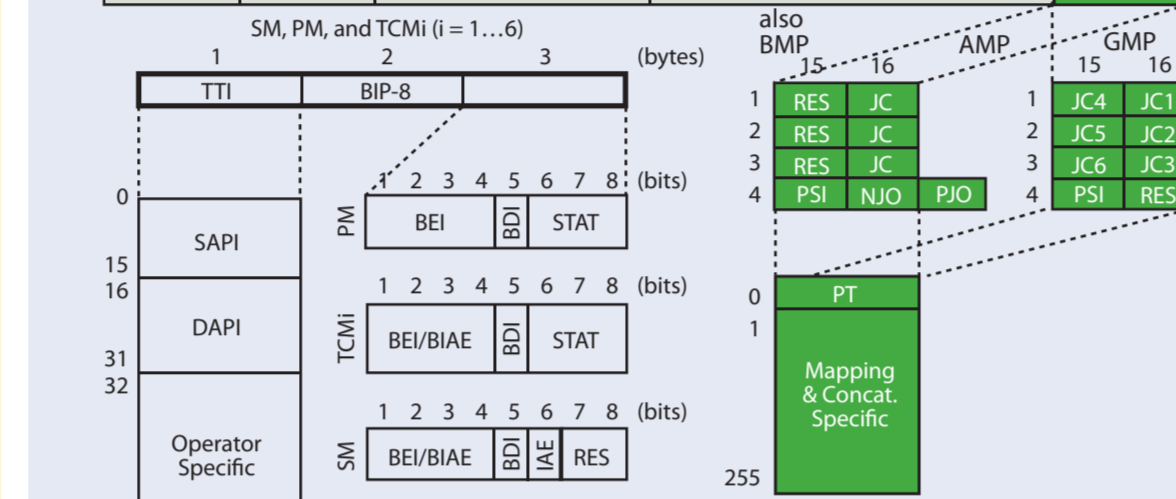
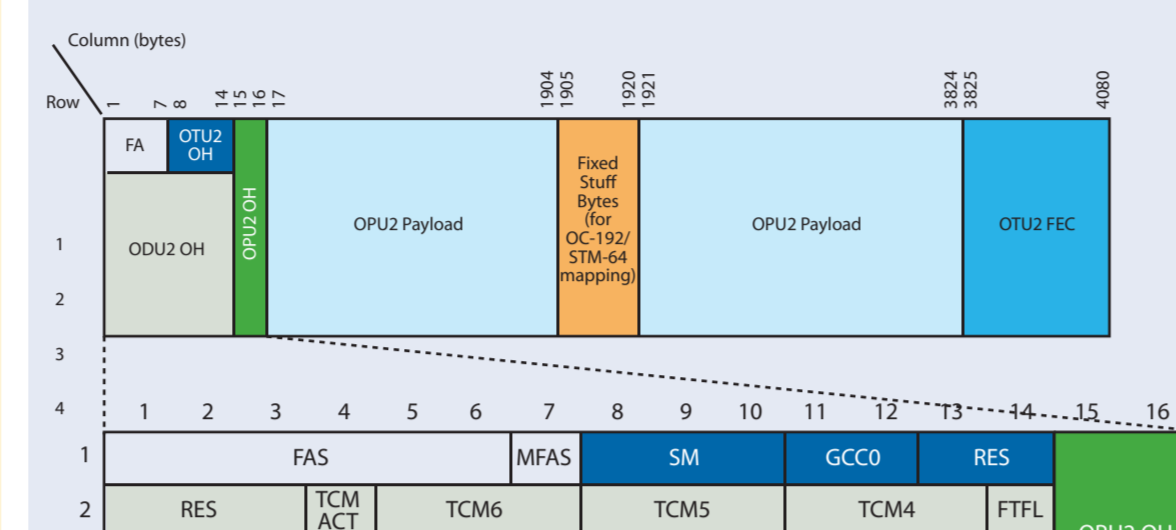


Signal Processing

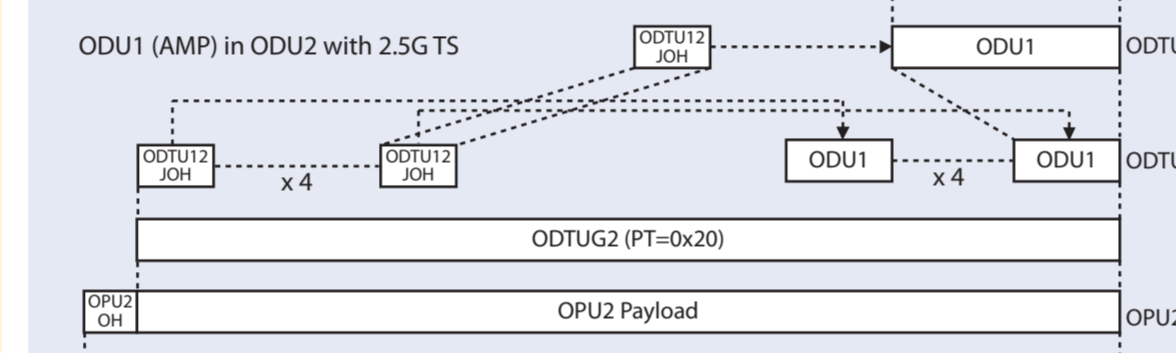


OTU2

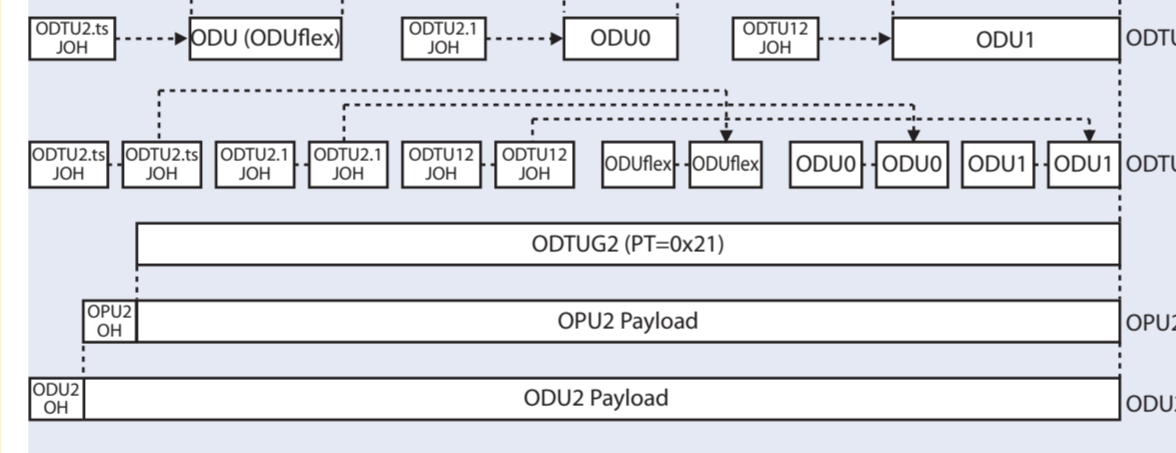
OTU2 Frame Structure



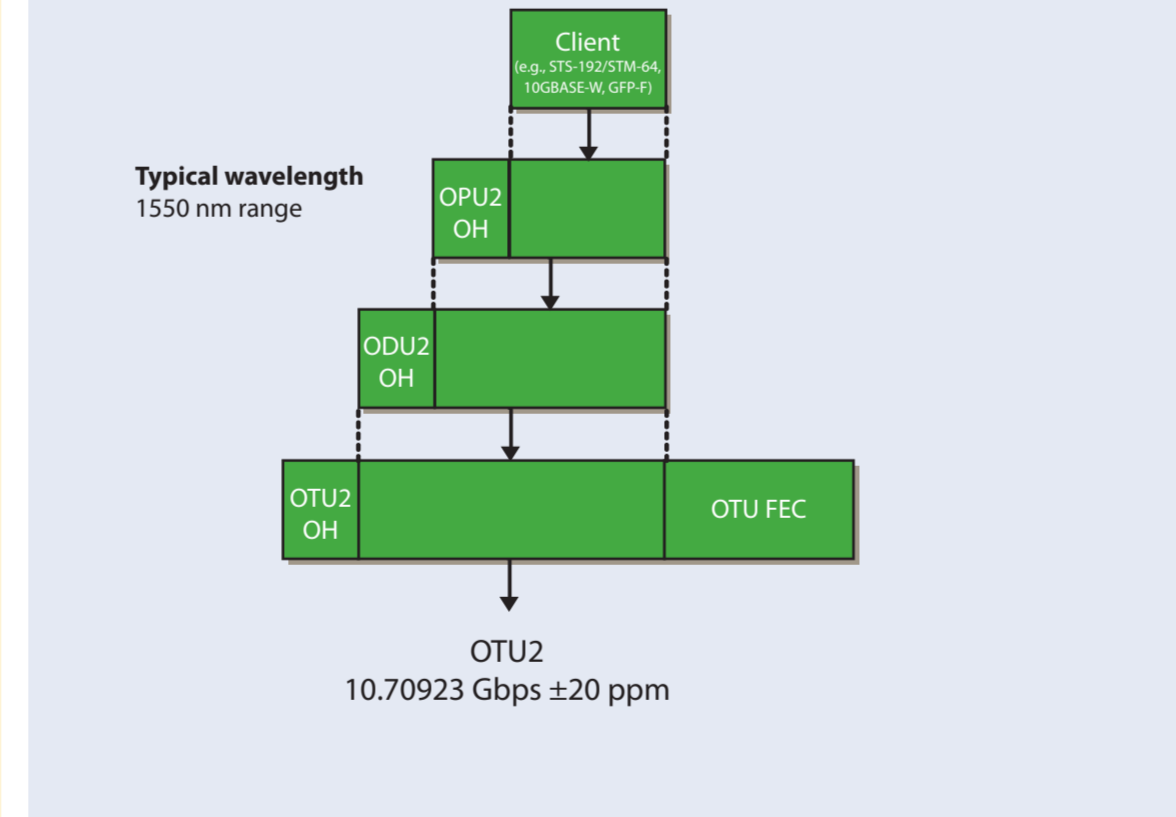
ODU2 Multiplexing



ODU0 (GMP), ODU1 (AMP), and ODUflex (GMP) in ODU2 with 1.25G-TS

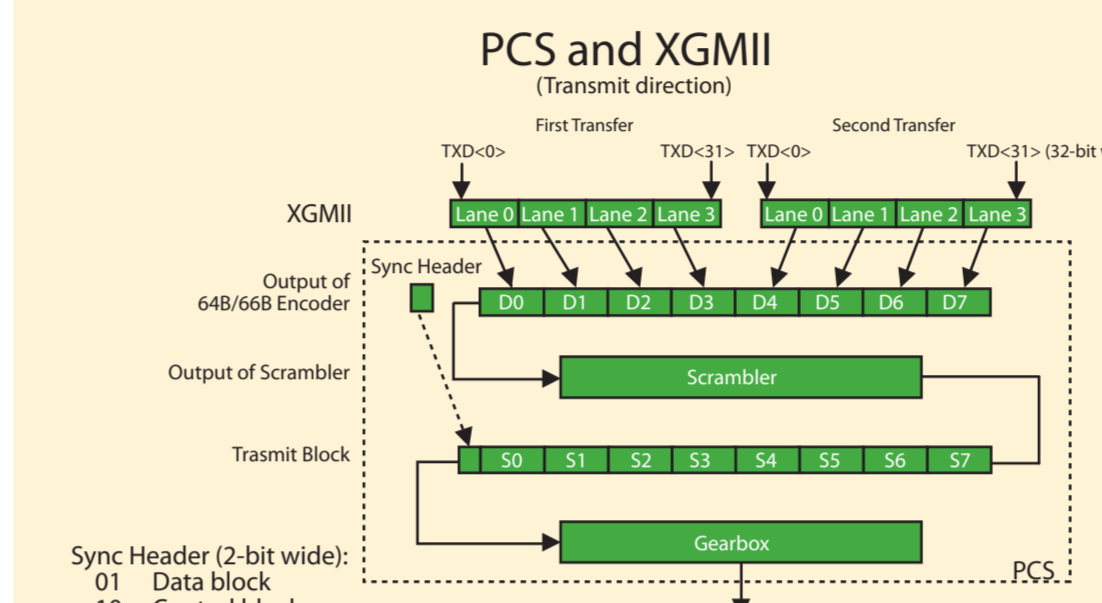
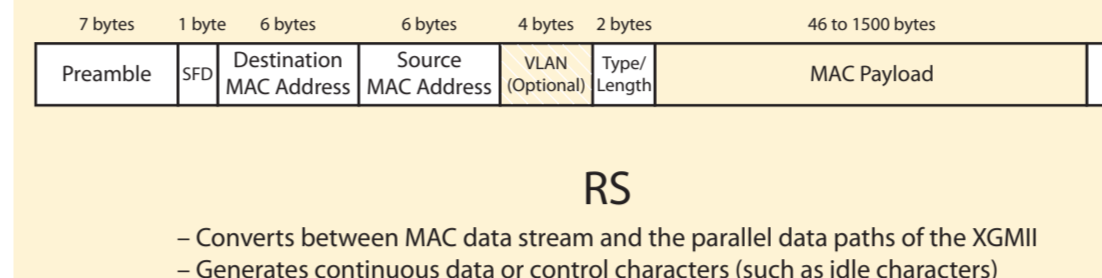


Signal Processing

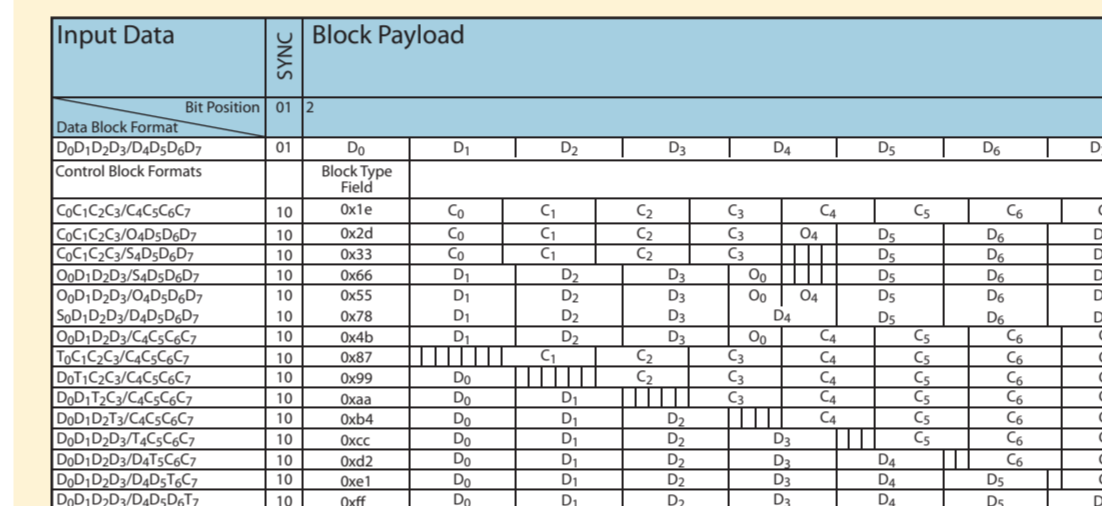


10 Gigabit Ethernet

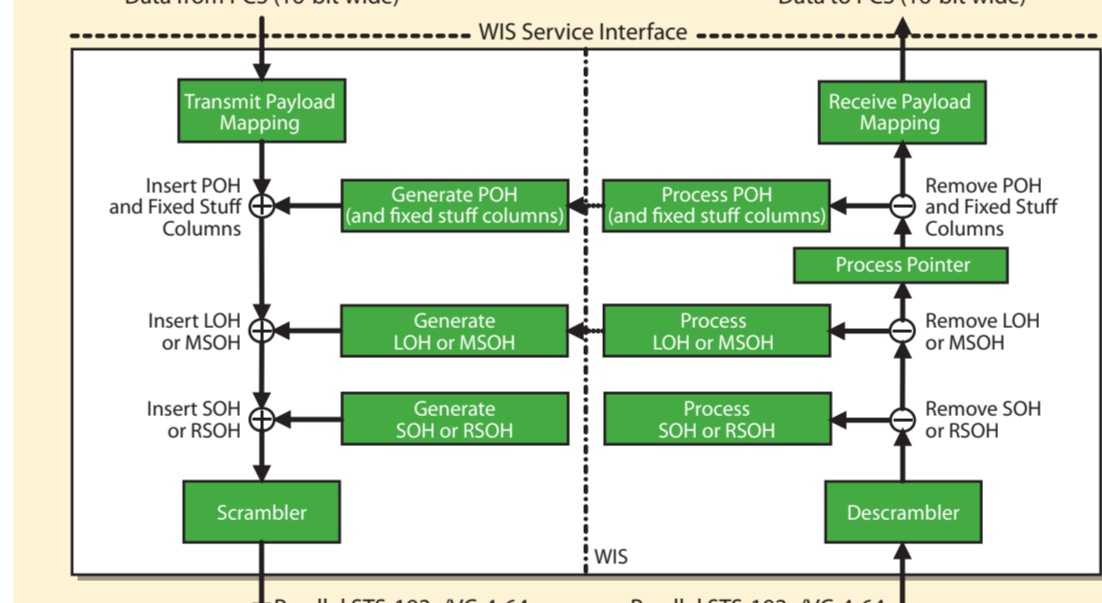
802.3 MAC Frame Structure



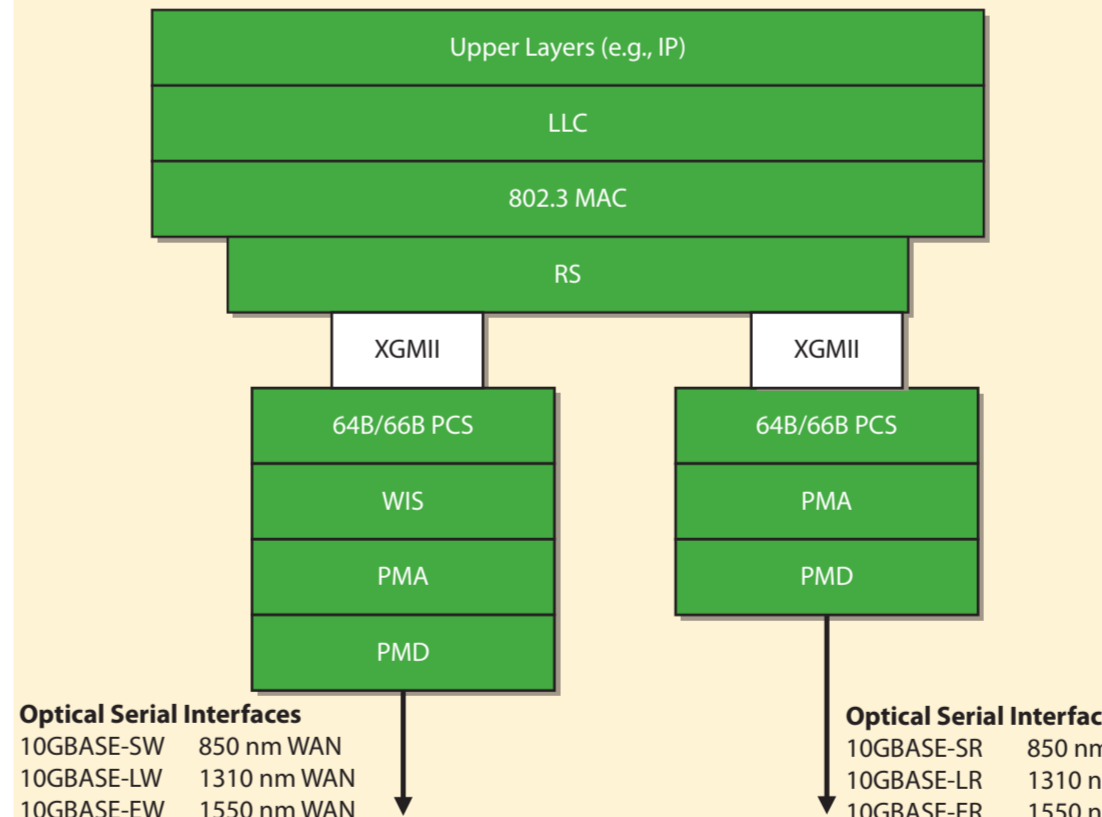
64B/66B PCS Block Format



WIS

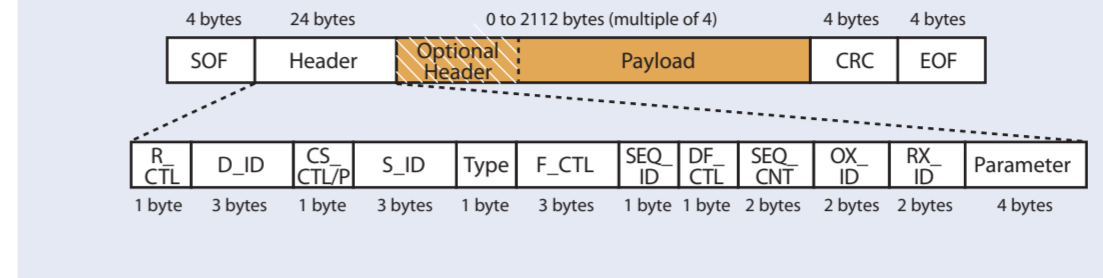


Signal Processing



10 Gigabit Fibre Channel

FC-2 Frame Structure



10GFC Primitives

Table listing 10GFC primitives such as SOF Class 1, SOF Class 2, SOF Class 3, SOF Class 4, SOF Fabric, EOP, etc.

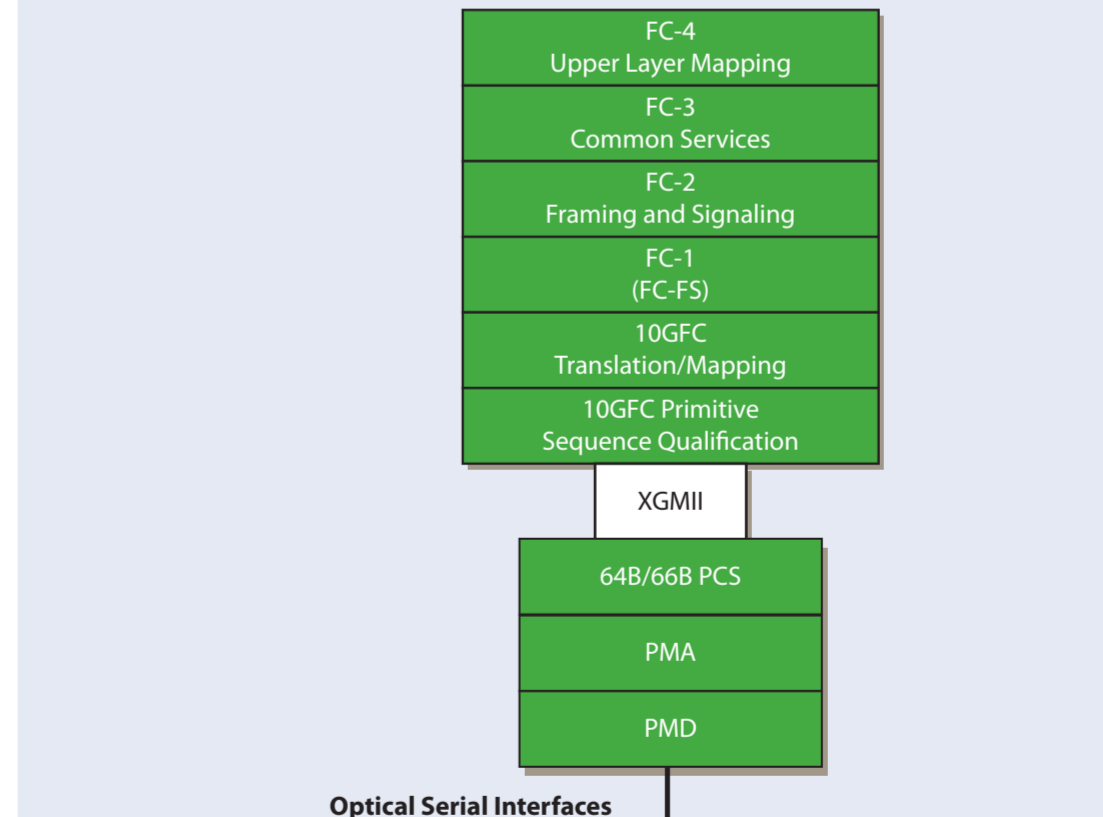
Classes of Service: Class 1 Dedicated Connection, Class 2 Multiplex (connectionless with acknowledgment), Class 3 Datagram (connectionless), Class 4 Fractional Bandwidth (uses virtual circuits), Class 6 Multicast Connection.

Fibre Channel Terms: Credits The maximum number of buffers available to receive frames, Exchange One or more related sequences identified by OX_ID and RX_ID, Frame Unit of information at FC-2, Login How a port sets its operating environment with other ports, Ordered Set A word composed of special characters (K) and data characters (D), Sequence One or more data frames with a common SEQ_ID.

PCS Sublayer

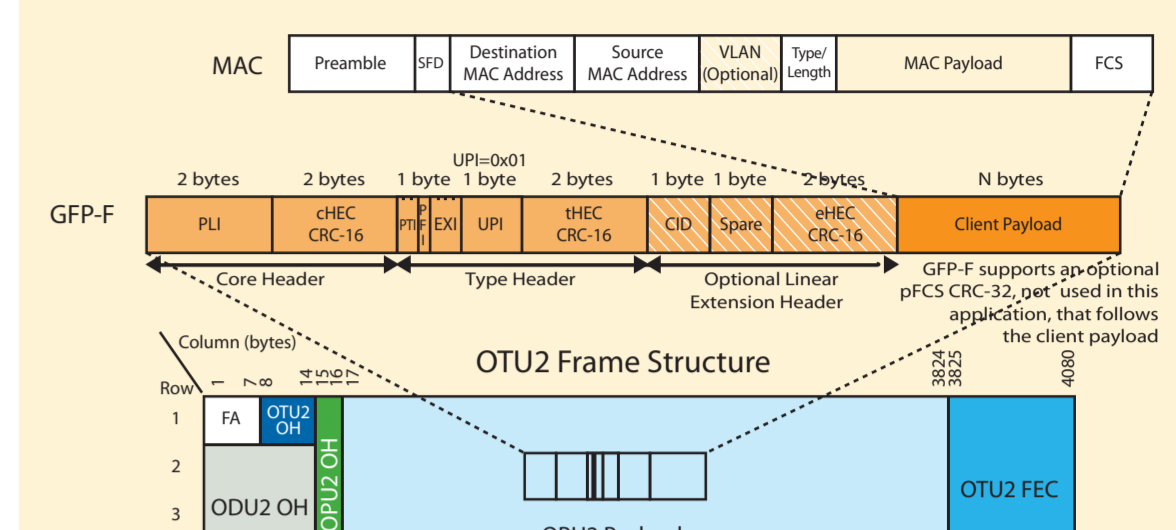
As in 10GE, 10GFC uses the same: 64B/66B PCS Block Format (see 10GE) - PCS and XGMII (see 10GE). 10GFC primitives map into the 64B/66B PCS Block Format.

Signal Processing

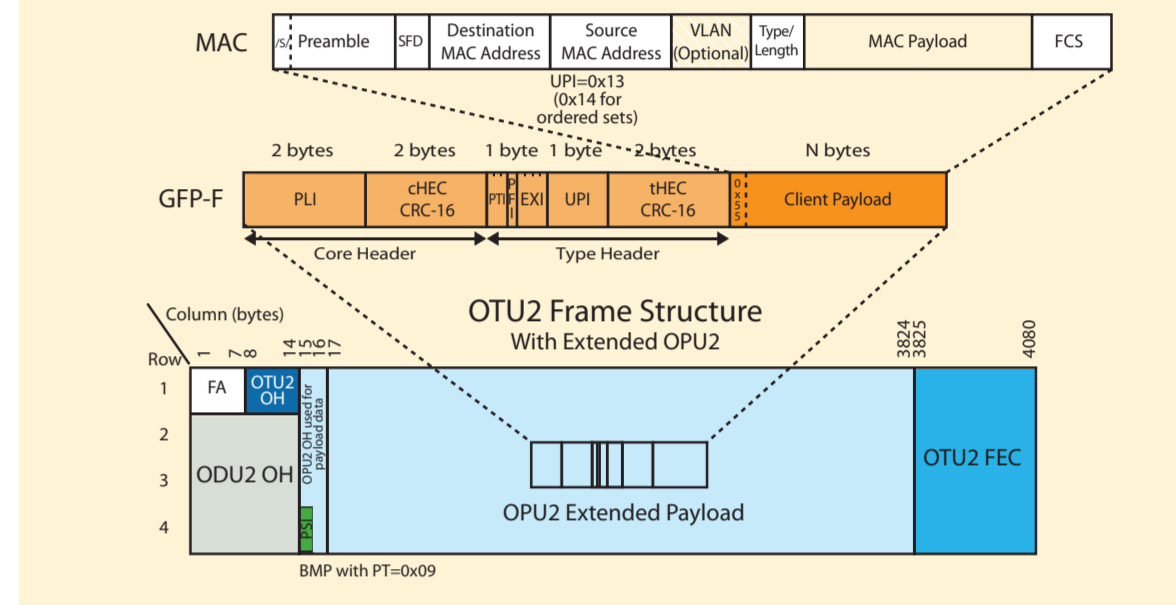


GFP-F in OTU2

GFP-F without Preamble in OTU2

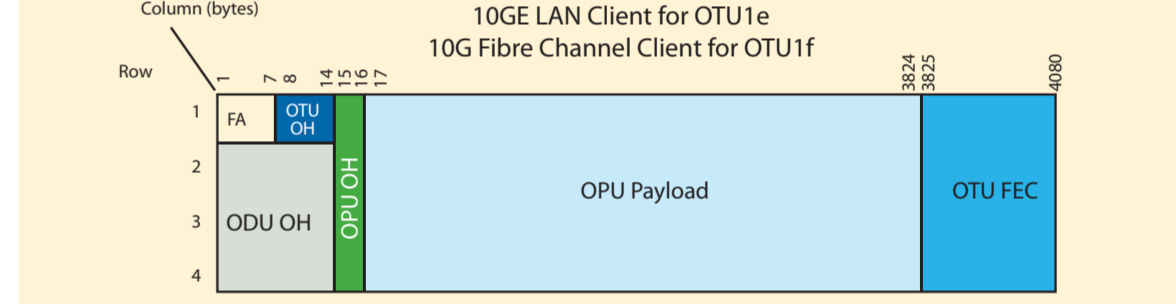


GFP-F with Preamble in OTU2 with Extended OPU2

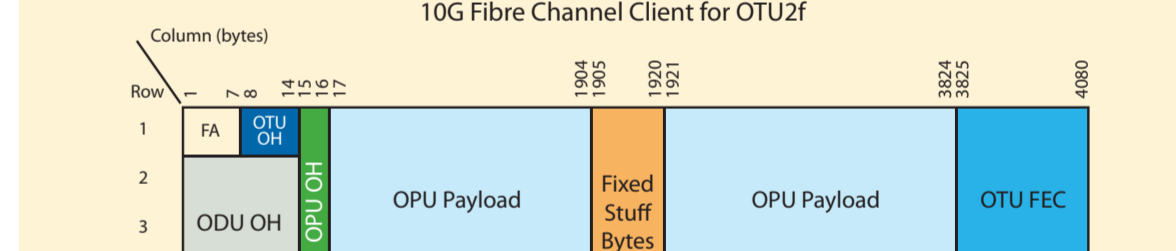


10G OTN Extended

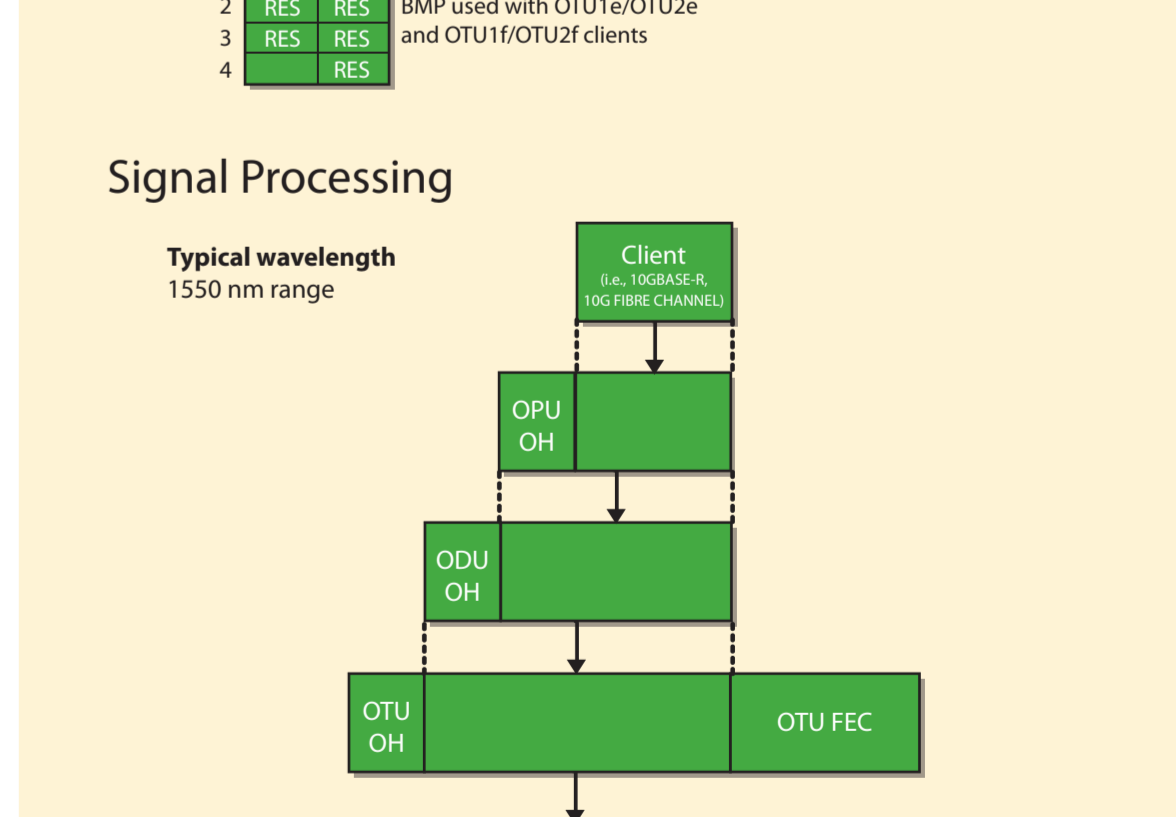
OTU1e and OTU1f Frame Structure



OTU2e and OTU2f Frame Structure



Signal Processing



Acronyms table with columns for acronym, full name, and brief description.

Acronyms table with columns for acronym, full name, and brief description.

Acronyms table with columns for acronym, full name, and brief description.

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