

[Change ‘Damage threshold (max)’ for PRX-D3 (currently -8.38 dBm) to -5 dBm in Table 75-7]

[Extract current 75.7 into a standalone, informative Annex 75A "Dual-rate receiver implementation"]

Create a new 75.7 with the following contents

75.7 Dual-rate (coexistence) mode

To support coexistence of 10G-EPON, 10/1G-EPON, and 1G-EPON ONUs on the same outside plant, the OLT may be configured to use a dual-rate mode. Dual-rate mode supports transmission and reception of both 10 Gb/s and 1 Gb/s data rates, and can be introduced as an option for 10GBASE-PR-D or 10/1GBASE-PRX-D PMDs. Table 75-xx depicts PMD coexistence mapping for dual-rate mode options.

Table 75-xx – PMD coexistence mapping for dual-rate mode option

OLT PMD combination	ONU PMDs coexisting on the same ODN
1000BASE-PX-D + 10/1GBASE-PRX-D	(1) 1000BASE-PX-U (2) 10/1GBASE-PRX-U
10GBASE-PR-D + 10/1GBASE-PRX-D	(1) 10GBASE-PR-U (2) 10/1GBASE-PRX-U
1000BASE-PX-D + 10GBASE-PR-D	(1) 1000BASE-PX-U (2) 10/1GBASE-PRX-U (3) 10GBASE-PR-U

Note: Only PMDs with compatible power budgets can be connected to the same ODN.

75.7.1 Downstream dual-rate operation

When the downstream dual-rate operation is enabled, the OLT transmits both 10 Gb/s and 1 Gb/s downstream signals in WDM manner. The OLT should meet both 10 Gb/s and 1 Gb/s specifications defined in Table 75-5 (10GBASE-PR-D transmit specification) and in Table 60-3 or Table 60-6 (1000BASE-PX-D transmit characteristics).

75.7.2 Upstream dual-rate operation

When the upstream dual-rate operation is enabled, the OLT receives both 10 Gb/s and 1 Gb/s upstream signals in TDMA manner. Further implementation details are described in Annex 75A. The OLT should meet both 10 Gb/s and 1 Gb/s specifications defined in Table 75-6 (10GBASE-PR-D receive characteristics), in Table 60-5, Table 60-8 (1000BASE-PX-D receive characteristics) and Table 75-7 (10/1GBASE-PRX-D receive characteristics).

NOTE-The damage threshold values in Table 75-7 are considerably higher than those in Table 75-6 and the PMD should be appropriately labeled.