

Comment on delay constraints Clause 202.12

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Ahmad Chini, Broadcom

Calculation of clause 202.12 delay constrains in Pause Quanta (512 bits or 64Bytes)

HS path

FEC frame delay = 341.33ns all data rates

FEC decoding delay < ½ FEC frame delay

Quiet gap = 906ns

Added Implementation delay < 200ns assumed

Sum up for the total delay ≈1.62us

Each Quanta is sent in 512bit / 2.5Gbps = 204.8ns

Each Quanta is sent in 512bit / 5Gbps = 102.4ns

Each Quanta is sent in 512bit / 10Gbps = 51.2ns

Therefor the total delay in Quanta is less than

8/16/32 Quanta for 2.5G/5G/10G respectively

LS path

FEC frame delay = 346.66ns all data rates

FEC decoding delay < ½ FEC frame delay

Quiet gap = 9045ns

Added Implementation delay < 200ns assumed

Sum up for the total delay ≈9.77us

Each Quanta is sent in 512bit / 100Mbps = 5120ns

Therefor the total delay in Quanta is less than

2 Quanta

- Delay rounded up to an integer Quanta for the table 202-20

Comment on table 20.20

- Update the table 202-20 as follows

Transmit MAC data rate	Bit times	Pause Quanta	Delay (ns)
100 Mbps	1024	2	10240
2.5 Gbps	4096	8	1638.4
5 Gbps	8192	16	1638.4
10 Gbps	16384	32	1638.4

Thank you
Questions?