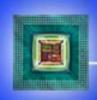# 10GBASE-ER Link Specification

- Draft 4.0 is 1 dB harder on Tx and 1 dB easier on Rx than Sonet 40 km specification

- Link attenuation and penalty budget is OK

- Draft 4.0 Tx specification will cause significant yield loss and drive up cost

Intel Communications Group

intel

Comparison of Draft 4.0 to Sonet

	Parameter	Draft 4.0	Sonet
Tx	OMA-TDP (min)	-1.4	-2.4
	TDP (max)	3.0	3.0
	OMA (min)	+1.6	+0.6
	Pout (min)	0.0	-1.0
Rx	Unstressed Sensitivity OMA	-13.4	-14.4
	Unstressed Sensitivity Pavg	-15.0	-16.0
	Eye Closure	2.0	2.0
	Sonet type Sensitivity	-13.0	-14.0

Specified

Calculated for comparison assuming Er = 8

intel

Motion

- **Move that the Tx power and Rx Sensitivity specifications for 10GBASE-E be adjusted down by 1 dB to match Sonet 40 km specifications**
  - Change Launch power (min) in OMA minus TDP from "-1.4" dBm to "-2.4" dBm in table 52-17
  - Change Receiver sensitivity (max) in OMA from "0.046" mW and "-13.4" dBm to "0.036" mW and "-14.4" dBm in table 52-18
  - Change Stressed receiver sensitivity (max) in OMA from "0.093" mW and "-10.3" dBm to "0.074" mw and "-11.3" dBm in table 52-18

- **Moved: Bob Zona   Second: Schelto Van Doorn**

- **Y: 11   N: 0   A: 10**

Intel Communications Group

intel