

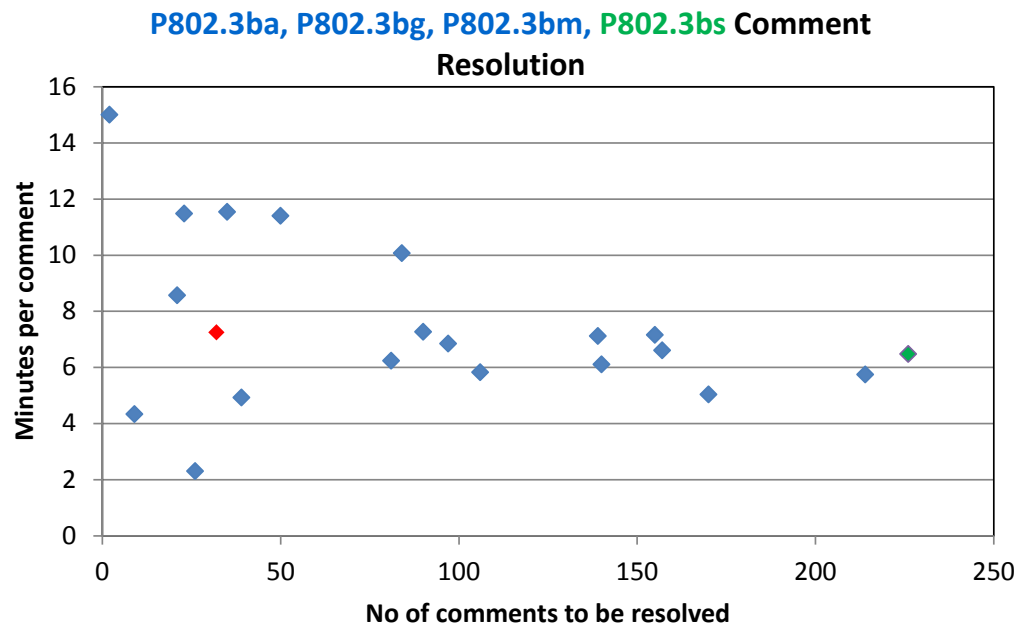
Optical track closing report

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Progress

- Comment resolution
 - Resolved all 32 comments for 1, 121, 122, 123 allocated to optics track
- Optical track resolved comments for 3.9 hours
 - 32 comments resolved works out as 7.3 minutes per comment
 - Thanks to the Editors and Optics track members for their hard work in preparation for and during this meeting



Items decided upon and open issues

- Clause 121 (400GBASE-SR16) MDI references resolved
- Reflection budget remains TBD, but straw man proposal created (see next pages)
- TDP method remains TBD
 - palkert_3bs_01_0116 serves as a starting point
 - Consensus that methods should be the same for Clauses 122 and 123
 - Need for additional eye mask test remains TBD
- Stressed receiver sensitivity method remains TBD
- OMA and ER definitions remain TBD

Reflection budget straw man 400GBASE-DR4

Parameter	D1.1	Straw man	Unit
Table 122-6			
Average launch power, each lane (min)	-1.9		dBm
Outer Optical Modulation Amplitude (OMA _{outer}), each lane (min)	0.2		dBm
Launch power in OMA _{outer} minus TDP, each lane (min)	-0.8		dBm
Optical return loss tolerance (max)	TBD	15.5	dB
Transmitter reflectance (max)	-20	-26	dB
Table 122-7			
Average receive power, each lane (min)	-4.9		dBm
Receiver reflectance (max)	-26	-26	dB
Receiver sensitivity (OMA _{inner}), each lane (max)	-9.1		dBm
Table 122-8			
Power budget (for max TDP)	6	6.1	dB
Maximum discrete reflectance	-35	-35	dB
Allocation for penalties (for maximum TDP)	3	3.1	dB
Table 122-11			
Optical return loss	TBD	15.5	dB
Table 122-12			
[Channel] Optical return loss (min)	TBD	27	dB
122.11.2.2			
maximum discrete reflectance	-35	-35	dB

Reflection budget straw man 400GBASE-FR8

Parameter	D1.1	Straw man	Unit
Table 123-7			
Average launch power, each lane (min)	-3		dBm
Outer Optical Modulation Amplitude (OMA _{outer}), each lane (min)	0		dBm
Launch power in OMA _{outer} minus TDP, each lane (min)	-1		dBm
Optical return loss tolerance (max)	TBD	15.5	dB
Transmitter reflectance (max)	TBD	-26	dB
Table 123-8			
Average receive power, each lane (min)	-7		dBm
Receiver reflectance (max)	TBD	-26	dB
Receiver sensitivity (OMA _{inner}), each lane (max)	-9.8		dBm
Table 123-9			
Power budget (for maximum TDP)	6.2	6.8	dB
Maximum discrete reflectance	TBD	-35	dB
Allocation for penalties (for maximum TDP)	2.2	2.8	dB
Table 123-12			
100GBASE-FR8 Optical return loss	20	15.5	dB
Table 123-13			
[Channel] Optical return loss (min)	21	27	dB
123.11.2.2			
maximum discrete reflectance	26	-35	dB

Reflection budget straw man 400GBASE-LR8

Parameter	D1.1	Straw man	Unit
Table 123-7			
Average launch power, each lane (min)	-2.5		dBm
Outer Optical Modulation Amplitude (OMA _{outer}), each lane (min)	0.5		dBm
Launch power in OMA _{outer} minus TDP, each lane (min)	-0.5		dBm
Optical return loss tolerance (max)	TBD	15.5	dB
Transmitter reflectance (max)	TBD	-26	dB
Table 123-8			
Average receive power, each lane (min)	-8.8		dBm
Receiver reflectance (max)	TBD	-26	dB
Receiver sensitivity (OMA _{inner}), each lane (max)	-11.6		dBm
Table 123-9			
Power budget (for maximum TDP)	8.7	9.2	dB
Maximum discrete reflectance	TBD	-35	dB
Allocation for penalties (for maximum TDP)	2.4	2.9	dB
Table 123-12			
100GBASE-LR8 Optical return loss	20	15.5	dB
Table 123-13			
[Channel] Optical return loss (min)	21	27	dB
123.11.2.2			
maximum discrete reflectance	-26	-35	dB

Thanks!