

802.3cu D3.0 Spec Proposed PMD Changes

P802.3cu 100 Gb/s and 400 Gb/s over SMF at
100 Gb/s per Wavelength Task Force

Ad Hoc Teleconference

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Table 140-8 Change Proposal

Table 140-8 100GBASE-DR, -FR1 and -LR1 illustrative link power budgets

Parameter	100GBASE-DR	100GBASE-FR1	100GBASE-LR1	Unit
Maximum discrete reflectance	-35	See 140.10.2.2	See 140.10.2.2	dB

Proposed Table 140-8 change:

Parameter	100GBASE-DR	100GBASE-FR1	100GBASE-LR1	Unit
Maximum discrete reflectance	-35	-35 ^{c, d}	-35 ^{c, e}	dB

^c See 140.10.2.2 for details, and specifications as a function of number of discrete reflectances within the channel.

^d Maximum value for each discrete reflectance with 4 discrete reflectances above -55dB within the channel.

^e Maximum value for each discrete reflectance with 6 discrete reflectances above -55dB within the channel.

^f Link penalties are used for link budget calculations. They are not requirements and are not meant to be tested.

Table 140-14 Unit Column Addition Proposal

Table 140–14—Maximum value of each discrete reflectance

Number of discrete reflectances above –55 dB	Maximum value for each discrete reflectance		
	100GBASE-FR1	100GBASE-LR1	Unit
1	–25	–22	dB
2	–31	–29	dB
4	–35	–33	dB
6	–38	–35	dB
8	–40	–37	dB
10	–41	–39	dB

Table 151-9 Change Proposal

Table 151-9 400GBASE-FR4 and -LR4-6 illustrative link power budgets

Parameter	400GBASE-FR4	400GBASE-LR4-6	Unit
Maximum discrete reflectance	See 151.11.2.2	See 151.11.2.2	dB

Proposed Table 151-9 change:

Parameter	400GBASE-FR4	400GBASE-LR4-6	Unit
Maximum discrete reflectance ^c	-35 ^d	-35 ^e	dB

^c See 151.11.2.2 for details, and specifications as function of number of discrete reflectances within the channel.

^d Maximum value for each discrete reflectance with 4 discrete reflectances above -55dB within the channel.

^e Maximum value for each discrete reflectance with 6 discrete reflectances above -55dB within the channel.

^f Link penalties are used for link budget calculations. They are not requirements and are not meant to be tested.

Table 151-15 Unit Column Addition Proposal

Table 151–15—Maximum value of each discrete reflectance

Number of discrete reflectances above –55 dB	Maximum value for each discrete reflectance		
	400GBASE-FR4	400GBASE-LR4-6	Unit
1	–25	–22	dB
2	–31	–29	dB
4	–35	–33	dB
6	–38	–35	dB
8	–40	–37	dB
10	–41	–39	dB

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Thank You