

# Chief Editor Report

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Chief Editor, P802.3cc

# Introduction

1. D3.0 comments closed on May 11.

P802.3cc D3.0 Comments		
Type	Count	
E	13	16
ER	3	
T	2	13
TR	11	
G	6	9
GR	3	
Total	38	
Required	17	

Comment ID	Clause	Subclause	Comment Type	Proposed Resp.	Group
1	114	114.6.2	E	Accept	1
8	114	114.7.10	E	Accept	1
15	1	1.4.64ca	E	Accept	1
16	45	45.2.1.6	E	Accept	1
17	114	114.6.1	E	Accept	1
18	114	114.7.6	E	Accept	1
19	114	114.6.3	E	Accept	1
20	0	0	G	Accept	1
22	78	78.1.4	G	Accept	1
36	FM	FM	G	Accept	1
37	FM	FM	G	Accept	1
2	114	114.6.1	E	Reject	2
3	114	114.6.1	E	Reject	2
4	114	114.7.3	E	Reject	2
5	114	114.7.3	E	Reject	2
6	114	114.7.3	E	Reject	2
7	114	114.7.3	E	Reject	2
14	114	114.7.3	T	Reject	2
30	114	114.12.4.1	G	Reject	2
31	114	114.12.4.2	G	Reject	2
12	114	114.12.4.5	TR	Accept in principle	3
13	114	114.12.4.5	TR	Accept	3
9	114	114.7.10	TR	Reject	4
10	114	114.12.4.1	TR	Reject	4
11	114	114.12.4.2	TR	Reject	4
21	45	45.2.1.8	TR	Reject	4
23	105	105.5	GR	Reject	4
24	108	108.5.3.2	ER	Reject	4
25	108	108.7.3	GR	Reject	4
26	114	114.5.5	ER	Reject	4
27	114	114.6.1	TR	Reject	4
28	114	114.6.3	TR	Reject	4
29	114	114.9	ER	Reject	4
32	114	114.12.3	GR	Reject	4
33	114	114.7.5.1	TR	Reject	4
34	114	114.6.1	TR	Discuss	5
35	114	114.6.1	T	Discuss	5
38	114	114.6.3	TR	Discuss	5

# Comment i-13

## 1.3 Normative references

The following standards contain provisions that, through reference in this text, constitute provisions of this standard. Standards may be subject to revision, and parties subject to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid international standards. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.

IEC 61280-1-3:2010, Fibre optic communication subsystem test procedures—Part 1-3: General communication subsystems—Central wavelength and spectral width measurement.

TIA-455-127-A-2006, FOTP-127-A, Basic Spectral Characterization of Laser Diodes.<sup>20</sup>

# Comment i-13

Published occurrences of reference to TIA-455-127-A.

PMD	Clause	Title	Usage
Introduction	1.3	Normative references	TIA-455-127-A-2006, FOTP-127-A
Definitions	1.4.367	RMS spectral width	TIA 455-127-A (FOTP-127-A)
1000BASE-LX	38.6.1	Center wavelength and spectral width measurements	TIA-455-127-A
	38.12.4.5	Optical measurement requirements	TIA-455-127-A
10GBASE-S/L/E	52.9.2	Center wavelength and spectral width measurements	TIA-455-127-A
	52.15.3.9	Optical measurement requirements	TIA-455-127-A
100BASE-LX10/BX10	58.7.2	Wavelength and spectral width measurements	TIA-455-127-A
	58.10.3.5	Optical measurement requirements	TIA-455-127-A
1000BASE-LX10/BX10	59.7.2	Wavelength and spectral width measurements	TIA-455-127-A
	59.10.3.5	Optical measurement requirements	TIA-455-127-A
1000BASE-PX	60.9.2	Wavelength and spectral width measurements	TIA-455-127-A
	60.12.4.10	Optical measurement requirements	TIA-455-127-A
10GBASE-PR, 10/1GBASE-PRX	75.7.4	Wavelength and spectral width measurements	TIA-455-127-A
	75.10.4.17	Optical measurement requirements	TIA-455-127-A
40GBASE-SR4	86.8.4.1	Wavelength and spectral width	TIA-455-127-A
	86.11.4.4	Definitions of parameters and measurement methods	TIA-455-127-A
40GBASE-LR4/ER4	87.8.3	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	87.13.4.5	Optical measurement methods	TIA-455-127-A or IEC 61280-1-3
100GBASE-LR4/ER4	88.8.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	88.12.4.5	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
40GBASE-FR	89.7.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	89.11.4.4	Optical measurement methods	TIA-455-127-A or IEC 61280-1-3
100GBASE-SR4	95.8.2	Center wavelength and spectral width	TIA/EIA-455-127-A or IEC 61280-1-3
	95.12.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
25GBASE-SR	112.7.2	Center wavelength and spectral width	TIA/EIA-455-127-A or IEC 61280-1-3
	112.11.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3

# Comment i-13

Current draft occurrences of reference to TIA-455-127-A.

PMD	Clause	Title	Usage
25GBASE-LR/ER	114.7.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	114.12.4.5	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
200GBASE-DR4	121.8.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	121.12.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
200GBASE-FR4/LR4 400GBASE-FR8/LR8	122.8.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	122.12.4.7	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
400GBASE-SR16	123.8.2	Center wavelength and spectral width	TIA/EIA-455-127-A or IEC 61280-1-3
	123.12.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
400GBASE-DR4	124.8.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	124.12.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
50GBASE-SR, 100GBASE-SR2, 200GBASE-SR4	138.8.2	Center wavelength and spectral width	TIA/EIA-455-127-A or IEC 61280-1-3
	138.11.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
50GBASE-FR/LR	139.7.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	139.11.4.5	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3
100GBASE-DR	140.7.2	Wavelength	TIA/EIA-455-127-A or IEC 61280-1-3
	140.11.4.4	Optical measurement methods	TIA/EIA-455-127-A or IEC 61280-1-3

## Proposed resolution:

- Delete reference to TIA/EIA-455-127-A from P802.3cc. Reference to IEC 61280-1-3 is sufficient.

# Comment i-38

## (1) Add MPI penalty to link budget (Tables 114-6, 7, 8)?

Parameter	Units	25GBASE-LR (P802.3cc)	25GBASE-ER (P802.3cc)	50GBASE-FR (P802.3cd)	50GBASE-LR (P802.3cd)
OMA-TDP (min)	dBm	-5	-1	-	-
OMA <sub>outer</sub> -TDECQ (min)	dBm	-	-	-3	-2
Rx Sens OMA (max)	dBm	-11.3	-19	-	-
Rx Sens OMA <sub>outer</sub> (max)	dBm	-	-	-7.3	-8.8
Channel loss	dB	6.3	18	4	6.3
TDP (max)	dB	2.7	2.7	-	-
TDECQ (max) / SECQ	dB	-	-	2.3	2.5
Allocation for penalties	dB	2.7	2.7	2.6	3
MPI penalty (min)	dB	0	0	0.3	0.5

## (2) Add maximum discrete reflectance clause in 114.10 similar to 139.10.2.2?

P802.3cc D3.0

### 114.10 Characteristics of the fiber optic cabling (channel)

The characteristics of the fiber optic cabling (channel) for 25GBASE-LR and 25GBASE-ER are as specified for 100GBASE-LR4 and 100GBASE-ER4 in 88.11 with the exception that Table 88-14 is replaced by Table 114-11.

#### 88.11.2.2 Maximum discrete reflectance

The maximum discrete reflectance shall be less than -26 dB.

P802.3cd D1.3

### 139.10.2.2 Maximum discrete reflectance

The maximum value for each discrete reflectance shall be less than or equal to the value shown in Table 139-14 corresponding to the number of discrete reflectances above -55 dB within the channel. For numbers of discrete reflectances in between two numbers shown in the table, the lower of the two corresponding maximum discrete reflectance values applies.

Table 139-14—Maximum value of each discrete reflectance

Number of discrete reflectances above -55 dB	Maximum value for each discrete reflectance	
	50GBASE-FR	50GBASE-LR
1	-25 dB	-22 dB
2	-31 dB	-29 dB
4	-35 dB	-33 dB
6	-38 dB	-35 dB
8	-39 dB	-37 dB
10	-40 dB	-38 dB