

P802.3ds Editors' Report

Editorial Team

P802.3ds 200 Gb/s per Wavelength MMF PHYs Task Force

Vancouver, BC, Canada

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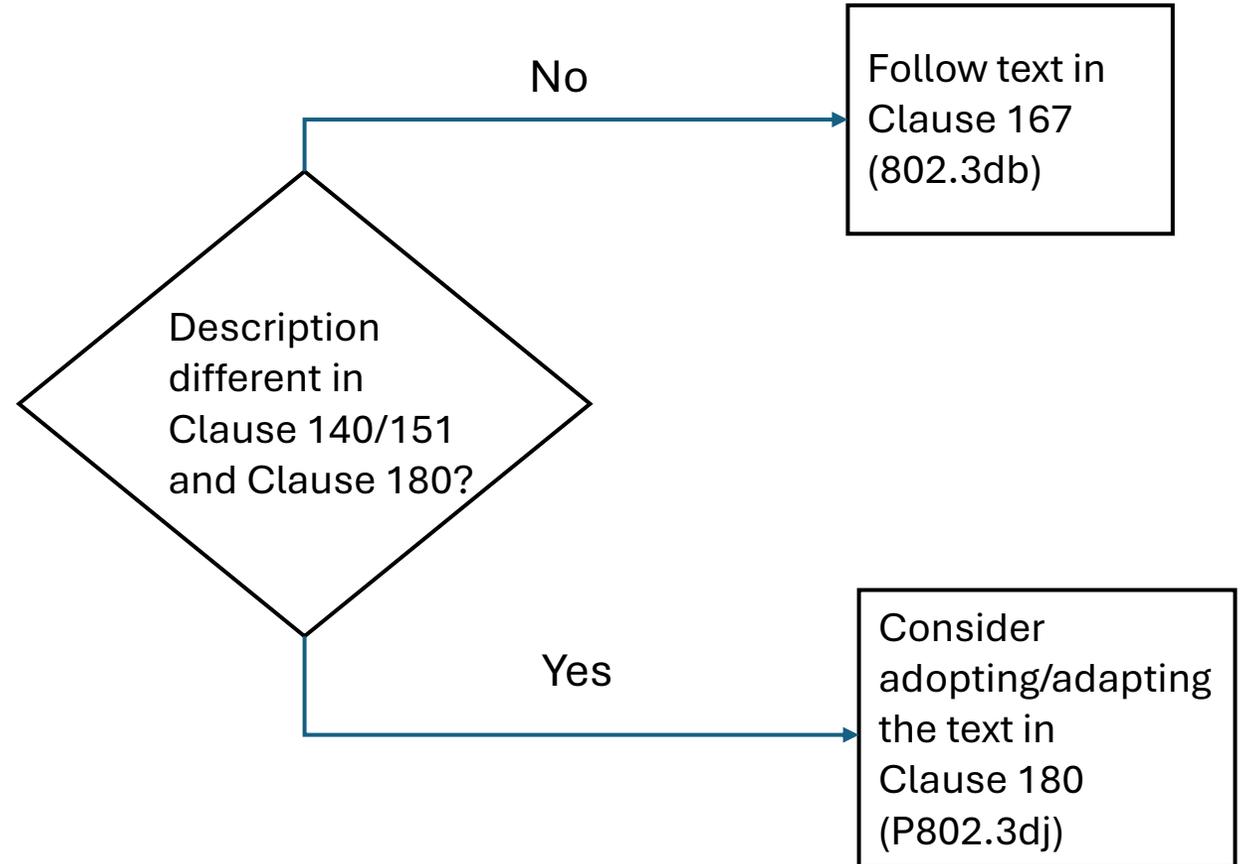
Approach

The description in multimode and single mode optical clauses has a lot in common, but multimode clauses have

- additional subclauses
- different way of describing a topic

There are several changes in the description of items in P802.3dj optical clause 180 when compared to previous optical clauses 140 and 151 (802.3cd and 802.3cu)

P802.3dj has introduced new Tx tests including Tx functional symbol error histogram and CER TDECQ. These tests will be considered in P802.3ds after further discussion in P802.3dj.

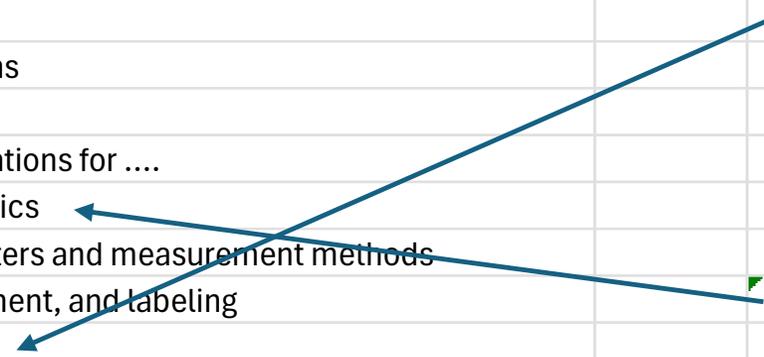


Example 1

Main Clause for P802.3ds follows the order in 802.3dj

Clause 167 (802.3db)

300.1	Overview		167.1	Overview
300.2	Error ratio allocation		167.2	Physical medium dependent (PMD) service interface
300.3	Physical medium dependent (PMD) service interface		167.3	Delay and skew
300.4	Delay and skew		167.4	PMD MDIO function mapping
300.5	PMD functional specifications		167.5	PMD functional specifications
300.6	Lane assignments		167.6	Lane assignments
300.7	PMD to MDI optical specifications for		167.7	PMD to MDI optical specifications for
300.8	Optical channel characteristics		167.8	Definition of optical parameters and measurement methods
300.9	Definition of optical parameters and measurement methods		167.9	Safety, installation, environment, and labeling
300.10	Safety, installation, environment, and labeling		167.10	Fiber optic cabling model
300.11	Management variables		167.11	Protocol implementation conformance statement (PICS)
300.12	Protocol implementation conformance statement (PICS)			



Example 2

Table 300–12—Test patterns

Pattern	Pattern description	Defined in
Square wave	Square wave (8 threes, 8 zeros)	176.7.4.6
3 ^a	PRBS31Q	176.7.4.2
4	PRBS13Q	176.7.4.3
5 ^a	Scrambled idle encoded by RS-FEC	119.2.4.9, 172.2.4.11, 175.2.4.11
6	SSPRQ	176.7.4.5
7	Valid 200GBASE-R, 400GBASE-R, 800GBASE-R, or 1.6TBASE-R signal	119.2.4, 172.2.4, 175.2.4

Table 167–10—Test patterns

Pattern	Pattern description	Defined in
Square wave	Square wave (8 threes, 8 zeros)	120.5.11.2.4
3	PRBS31Q	120.5.11.2.2
4	PRBS13Q	120.5.11.2.1
5	Scrambled idle encoded by RS-FEC	82.2.11 and 91, or 119.2.4.9
6	SSPRQ	120.5.11.2.3

^a Precoding (see 176.7.1.2) is added to this pattern as necessary (see 180.9.15 and 180.9.16)

Table 180–13—Test patterns

Pattern	Pattern description	Defined in
Square wave	Square wave (8 threes, 8 zeros)	176.7.4.6
3 ^a	PRBS31Q	176.7.4.2
4	PRBS13Q	176.7.4.3
5 ^a	Scrambled idle	119.2.4.9, 172.2.4.11, 175.2.4.11
6	SSPRQ	176.7.4.5
7	Valid 200GBASE-R, 400GBASE-R, 800GBASE-R, or 1.6TBASE-R signal	119.2.4, 172.2.4, 175.2.4

Table 151–10—Test patterns

Pattern	Pattern description	Defined in
Square wave	Square wave (8 threes, 8 zeros)	120.5.11.2.4
3	PRBS31Q	120.5.11.2.2
4	PRBS13Q	120.5.11.2.1
5	Scrambled idle	119.2.4.9
6	SSPRQ	120.5.11.2.3

^a Precoding (see 176.7.1.2) is added to this pattern as necessary (see 180.9.15 and 180.9.16).

D0.1

Goal is to get the structure of the draft in place to generate D1.0.

- Editors' notes at the beginning of a number of clauses and subclauses indicate they will be presented in D1.0
- Almost all tables in the main clause are populated with TBDs

Frontmatter

Clause 1

Introduction

Clause 30

Management

Clause 45

Management data input/output (MDIO) interface

Clause 116

Introduction to 200 Gb/s and 400 Gb/s networks

Clause 120

Physical medium attachment (PMA) sublayer, type 200GBASE-R and 400GBASE-R

Clause 169

Introduction to 800 Gb/s networks

Clause 174

Introduction to 1.6 Tb/s networks

Clause 300

Main clause. The clause number, 300, is a placeholder.

Clause Responsibility

Main Clause

Clause	Owner
Frontmatter	Ramana
1	Ramana
30	Eric
45	Eric
116	Ramana
120	Eric
169	Roberto
174	Roberto
Annex 178B	Roberto

Subclause	Title	Owner
300.1	Overview	Eric
300.2	Error ratio allocation	Eric
300.3	PMD service interface	Eric
300.4	Delay and skew	Eric
300.5	PMD functional specifications	Eric
300.6	Lane assignments	Eric
300.7	PMD to MDI optical specifications ...	Ramana
300.8	Optical channel characteristics	Roberto
300.9	Definition of optical parameters ...	Ramana
300.10	Safety, installation, environment ...	Roberto
300.11	Management variables	Eric
300.12	PICS	Roberto

1060 nm

If a 1060 nm link is to be defined, Task Force has to decide whether to incorporate the 1060 nm PMDs in the same clause as 850 nm, or a separate clause.

If there is a new clause for 1060 nm link, subclause responsibilities will mirror the 850 nm clause.

D1.0

Target publication date	April 6
Comment period	Four weeks
May Interim	May 11 – 14