

Comments Received

IEEE P802.3cs D2.3 SuperPON Task Force 3rd Working Group recirculation ballot comments

CI 1 SC 1.4 P22 L16 # 251

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status X

The term "DWDM channel" has been updated to address 802.3cs, but a search of the draft via the adobe search tool did not reveal its use anywhere else besides 1.4. If it is not being used then the update to the definition should be deleted

SuggestedRemedy

Delete update to 1.4.237b DWDM Channel definition.

Proposed Response Response Status O

CI 1 SC 1.4.275a P22 L40 # 257

Dawe, Piers Nvidia

Comment Type E Comment Status X

Free Spectral Range

SuggestedRemedy

free spectral range (as in 1.5 below)

Proposed Response Response Status O

CI 164 SC 164.2.1 P43 L13 # 252

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status X

The following terms are identified with definitions but have not been added to 1.4: Super-PON PMDs, symmetric Super-PON PMDs, asymmetric Super-PON PMDs

SuggestedRemedy

add definitions to 1.4
 SuperPON PMDs - Family of PMDs that address point-to-multipoint (P2MP) networks, operating at a MAC data rate of 10 Gb/s in the downstream direction and at a MAC data rate of 10 Gb/s or 2.5 Gb/s in the upstream direction. See Clause 164.
 Symmetric Super PON PMDs - Family of Super PON PMDs supporting the upstream MAC data rate of 10 Gb/s. See Clause 164.
 Asymmetric Super PON PMDs - Family of Super PON PMDs supporting the upstream MAC data rate of 2.5 Gb/s. See Clause 164.

Proposed Response Response Status O

CI 164 SC 164.2.4.2 P47 L9 # 250

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type TR Comment Status X

In Figure 164-3 the border of the Black Link (which should be DWDM Black Link) appears to be at the MDI's but this is different than what is shown in other figures where the MDI is at fiber that then connects to the DWDM Black Link. However, there is also test points at the MDI and inside the DWDM Black Link (TP7 / TP2 and TP6 / TP3). The difference in locations between these pairs of test points is unclear. Also how can you specify anything inside the DWDM Black Link, which is done with the black link approach?

SuggestedRemedy

Show fiber to the MDI's that then connects to the DWDM Black Link.
 Define where the noted test points exist (some sort of cable length?)

Proposed Response Response Status O

CI 164 SC 164.2.4.2 P47 L11 # 253

Dambrosia, John Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status X

In Figure 164-3 the term Black Link is used incorrectly - black link approach is how this part of the medium is specified

SuggestedRemedy

Change "Black Link" to "DWDM Black Link"

Proposed Response Response Status O

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IEEE P802.3cs D2.3 SuperPON Task Force 3rd Working Group recirculation ballot comments

CI 164 SC 164.2.5 P49 L11 # 254

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status X

Table 164-4 issues

1. Channel is noted as "operating transmit channel" in 45.2.1.23a.1a
2. Every column, except C-band1 (downstream) Frequency - appears to be approximate, as the frequency is only specified to 3 significant figures.
3. It appears that C-Band 1 (downstream) frequencies are part of a DWDM frequency grid defined in ITU-T G.694.1. I don't see this specified anywhere. What about the other frequencies - are they part of another specified grid?

SuggestedRemedy

1. Choose a consistent name for Table 164-4 and 45.2.1.23a.1a
2. add "Approximate" in each column header
3. add references where appropriate to defined grids - either in table or body of text

Proposed Response Response Status O

CI 164 SC 164.2.6.1 P49 L36 # 260

Dawe, Piers

Nvidia

Comment Type E Comment Status X

Make it easier to look things up

SuggestedRemedy

Add "OLT" and ONU" to four subclause headings 164.2.6.1, 164.2.6.2, 164.2.7.1 and 164.2.7.2, as is already done for the four tables, e.g. 164.2.6.1 OLT transmitter optical specifications

Proposed Response Response Status O

CI 164 SC 164.2.6.2 P50 L46 # 258

Dawe, Piers

Nvidia

Comment Type E Comment Status X

See 1.2.6, Accuracy and resolution of numerical quantities, and guidance to editors

SuggestedRemedy

Change 6.0 to 6

Proposed Response Response Status O

CI 164 SC 164.2.7.2 P52 L21 # 259

Dawe, Piers

Nvidia

Comment Type T Comment Status X

The ONU receives from the OLT

SuggestedRemedy

Change "ONU transmitter extinction ratio of 6.0 dB" to "OLT transmitter extinction ratio of 8.2 dB".

Proposed Response Response Status O

CI 164 SC 164.2.11.2 P59 L3 # 249

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status X

The following is stated - The MDI is the interface between the PMD and the "fiber optic cabling" as shown in Figure 164-3. This is not correct, per 1.4.324 Medium Dependent Interface (MDI), which states "
The mechanical and electrical or optical interface between the transmission medium and the MAU (e.g., 10BASE-T) or the PHY (e.g., 1000BASE-T) and also between the transmission medium and any associated (optional per IEEE Std 802.3, Clause 33) Powered Device (PD) or Endpoint Power Sourcing Equipment (PSE).

SuggestedRemedy

Change sentence to "The MDI is the interface between the PMD and the PON medium, as shown in Figure 164-3.

Proposed Response Response Status O

CI 164 SC 164.4.1 P73 L30 # 255

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type ER Comment Status X

In Figure 164-7, The label of the MII is difficult to read, and shouldn't it be XGMII

SuggestedRemedy

correct the label. Usually done by pulling the label outside of the box and then pointing to it. Example 154-1 look at CGMII

change in all layer diagrams accordingly.

Proposed Response Response Status O

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

SORT ORDER: Clause, Subclause, page, line

CI 164
SC 164.4.1

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Comments Received

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CI 164 SC 164.5.2.1 P81 L7 # 246

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type **TR** Comment Status **X**

The scope of this project per its online PAR reads, "This amendment adds physical layer specifications and management parameters for optical subscriber access supporting point-to-multipoint operations using wavelength division multiplexing over an increased-reach (up to at least 50 km) passive optical network (PON)."

However, in Fig 164-11, it is noted that the MPMC (see 164.5), which is part of the data link layer, is included in this specification. This is not within the current stated scope of the project.

SuggestedRemedy

The PAR for the project should be modified to include " It also extends the operation of Ethernet Passive Optical Networks (EPON) protocols, such as MultiPoint Control Protocol (MPCP) and Operation Administration and Management (OAM)."

Reference - https://www.ieee802.org/3/ca/documents/P802_3ca_PAR_approved.pdf

Proposed Response Response Status **O**

CI 164 SC 164.5.2.1 P81 L22 # 248

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type **TR** Comment Status **X**

The noted PON medium includes "Black Link" per Fig 164-11. This does not align with 802.3ct, which is standard in-force, or updated terminology for 802.3cs. "Black link" is actually short for the methodology to define this part of the medium. This medium should be noted as "DWDM Black Link"

SuggestedRemedy

Change Black link to DWDM Black Link in all layer diagrams

Proposed Response Response Status **O**

CI 164 SC 164.5.2.1 P81 L32 # 247

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type **E** Comment Status **X**

The layer diagram references the respective layers throughout the diagram. It is not typical practice within the 802.3 specification to do this.

SuggestedRemedy

Delete all references to the respective clauses for the noted layers. This should be done for all such layer diagrams within the draft.

Proposed Response Response Status **O**

CI 164A SC 164A.1 P96 L6 # 256

Dambrosia, John

Futurewei, A U.S. Subsidiary of Huawei

Comment Type **ER** Comment Status **X**

Use of black link terminology is incorrect

SuggestedRemedy

Change Black link to DWDM Black Link in all respective places in this annex

Proposed Response Response Status **O**

CI 164A SC 164A.5.3 P103 L6 # 261

Dawe, Piers

Nvidia

Comment Type **E** Comment Status **X**

Suggested improvements for Figure 164A-4

SuggestedRemedy

"Pen" should be spelled out twice.
Units are generally in round brackets.
Colour should not be used if not necessary for clarity/comprehension.
x axis should be at bottom of graph.
Trailing zeros should not be included.
While you are there: "DS" could be written out in full.

Proposed Response Response Status **O**