

## IEEE 802.3by D3.0 25 Gb/s Ethernet Initial Sponsor ballot comments

CI **FM** SC **FM** P **1** L **1** # **i-90**  
 Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** bucket

As it seems likely that IEEE P802.3by will be the second amendment to IEEE Std 802.3-2015 please change '(Amendment of IEEE Std 802.3(TM)-2015)' to read 'Amendment of IEEE Std 802.3(TM)-2015 as amended by IEEE Std 802.3bw(TM)-2015)'.

## SuggestedRemedy

See comment.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **FM** SC **FM** P **10** L **16** # **i-91**  
 Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** bucket

To match the latest IEEE 802.3 frontmatter document template  
 <http://ieee802.org/3/WG\_tools/templates/index.html> please add the additional sentence  
 'A full duplex MAC protocol was added in 1997' after the text 'Since 1985, new media  
 options, new speeds of operation, and new capabilities have been added to IEEE Std  
 802.3.' at the end of the second paragraph of the introduction text.

## SuggestedRemedy

See comment.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **FM** SC **FM** P **10** L **17** # **i-35**  
 Anslow, Peter Ciena Corporation

Comment Type **E** Comment Status **D** bucket

The Introduction has been modified in the 802.3 template.

## SuggestedRemedy

Add "A full duplex MAC protocol was added  
 in 1997." to the end of the second paragraph.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **FM** SC **FM** P **11** L **12** # **i-92**  
 Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** bucket

Text needs updated based on the approval of IEEE Std 802.3bw-2015, the likelihood that IEEE P802.3by will be the second amendment to IEEE Std 802.3-2015, and the use of the (TM) symbol only on the first instance.

## SuggestedRemedy

Suggest that:

[1] 'IEEE Std 802.3bw(TM)-201x' be to read 'IEEE Std 802.3bw-2015'.

[2] 'This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 96.' be changed to read 'Amendment 1--This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 96.'.

[3] 'IEEE Std 802.3by(TM)-201x' be changed to read 'IEEE Std 802.3by-201x'.

[4] 'This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 105 ...' be changed to read 'Amendment 2--This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 105 ...'.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

CI **FM** SC **FM** P **21** L **44** # **i-93**  
 Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** bucket

As IEEE Std 802.3bw-2015 has been approved, and it seems likely that IEEE P802.3by will be the second amendment to IEEE Std 802.3-2015, suggest that this text now be removed.

## SuggestedRemedy

Suggest the text and the box be deleted.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

## IEEE 802.3by D3.0 25 Gb/s Ethernet Initial Sponsor ballot comments

Cl **000** SC **0** P L # **i-104**  
Stanton, Penny

Comment Type **E** Comment Status **D** bucket

Normative reference SFF 8665 is not cited in the draft. If it is needed for the implementation of the draft, please cite in text or please verify if it has been cited in the base already (therefore not needing to be cited in this amendment).

*SuggestedRemedy*

Proposed Response Response Status **W**

PROPOSED ACCEPT IN PRINCIPLE.

Subclause 110.11 refers to subclause 92.12.1.1 in the base document for a definition of the MDI. Subclause 92.12.1.1 makes a reference to SFF-8665. It was noted that the base document did not have a reference to SFF-8665 in 1.3, so it was included in P802.3by.

No changes are required to P802.3by.

Cl **000** SC **0** P **12** L **3** # **i-12**  
Marris, Arthur Cadence Design Syste

Comment Type **ER** Comment Status **D** bucket

Five levels of numbering should be shown in the table of contents

*SuggestedRemedy*

Show five levels of numbering in the table of contents

Proposed Response Response Status **W**

PROPOSED ACCEPT.

The IEEE-SA Standards Style Manual states:

"A table of contents listing the main clauses (identified by one digit) and the first series of subclauses under each clause (identified by two digits) should be supplied. The next series of subclauses (identified by three digits) may be included when deemed appropriate by the IEEE-SA content publishing staff and the working group."

However, the IEEE 802.3 amendment template was recently updated to state:

"Both revisions and amendments to IEEE Std 802.3 show all five heading levels in the table of contents."

P802.3bx D3.2 includes 5 heading levels in the TOC.

Cl **001** SC **1.3** P **22** L **28** # **i-94**  
Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** bucket

The title for SFF-8402 Rev 1.1 available at <ftp://ftp.seagate.com/sff/SFF-8402.PDF> doesn't include '1x'.

*SuggestedRemedy*

Suggest that '... SFP+ 28 Gb/s 1x Pluggable ...' be changed to read '... SFP+ 28 Gb/s Pluggable ...'.

Proposed Response Response Status **W**

PROPOSED ACCEPT IN PRINCIPLE.

The title of SFF-8402 Rev 1.1 includes "1x" but in a different position.

Change:

"SFP+ 28 Gb/s 1x Pluggable Transceiver Solution (SFP28)"

To:

"SFP+ 1X 28 Gb/s Pluggable Transceiver Solution (SFP28)"

Cl **001** SC **1.4** P **23** L **10** # **i-89**  
Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** bucket

Based on definitions being in alphanumerical order shouldn't the definition for '25GBASE-SR' come after '25GBASE-R'?

*SuggestedRemedy*

Suggest that:

[1] '1.4.64g 25GBASE-R' should read '1.4.64f 25GBASE-R' and be place after 1.4.64e 25GBASE-KR-S.

[2] '1.4.64f 25GBASE-SR' should read '1.4.64g 25GBASE-SR' and be place after 1.4.64f 25GBASE-R.

Proposed Response Response Status **W**

PROPOSED ACCEPT.

# IEEE 802.3by D3.0 25 Gb/s Ethernet Initial Sponsor ballot comments

**Cl 001**    **SC 1.4.134**    **P 23**    **L 35**    # **i-2**  
Hajduczenia, Marek    Bright House Network

**Comment Type E**    **Comment Status D**    *bucket*  
Wrong position of ".".

**SuggestedRemedy**  
Is "Clause 11)." and should be "Clause 11.)"

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 030**    **SC 30.3.2**    **P 25**    **L 6**    # **i-13**  
Marris, Arthur    Cadence Design Syste

**Comment Type E**    **Comment Status D**    *Bucket*  
Correct subclause heading

**SuggestedRemedy**  
Change:  
PHY devicePHY device managed object class  
To:  
PHY device managed object class

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 030**    **SC 30.3.2.1.2**    **P 25**    **L 11**    # **i-96**  
Law, David    Hewlett Packard Enter

**Comment Type E**    **Comment Status D**    *Bucket*  
Change 'IEEE Std 802.3bw-201x' to read 'IEEE Std 802.3bw-2015' here and throughout draft.

**SuggestedRemedy**  
See comment.

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 030**    **SC 30.5.1.1.2**    **P 25**    **L 52**    # **i-3**  
Hajduczenia, Marek    Bright House Network

**Comment Type E**    **Comment Status D**    *Bucket*  
Please make sure all references to "IEEE Std 802.3bw-201x" are changed to "IEEE Std 802.3bw-2015" - it has bee approved as of this date, pending publication

**SuggestedRemedy**

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 030**    **SC 30.5.1.1.16**    **P 27**    **L 25**    # **i-102**  
Law, David    Hewlett Packard Enter

**Comment Type E**    **Comment Status D**    *Bucket*  
Enumerations should be within double inverted commas.

**SuggestedRemedy**  
Change '... enumerations 'BASE-R enabled' and ...' to read '... enumerations "BASE-R enabled" and ...'. Make similar changes for all referenced enumerations in Clause 30.

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 045**    **SC 45.2.1**    **P 29**    **L 13**    # **i-11**  
Marris, Arthur    Cadence Design Syste

**Comment Type E**    **Comment Status D**    *Bucket*  
There is no need to reference IEEE Std 802.3bn-201x

**SuggestedRemedy**  
Change:  
(as modified by IEEE Std 802.3bn-201x and IEEE Std 802.3bw-201x which inserted new registers at addresses 1.17 and 1.18)  
To:  
(as modified by IEEE Std 802.3bw-2015)

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

## IEEE 802.3by D3.0 25 Gb/s Ethernet Initial Sponsor ballot comments

**Cl 045**    **SC 45.2.1.1**    **P 30**    **L 20**    # **i-4**  
Hajduczenia, Marek    Bright House Network

**Comment Type E**    **Comment Status D**    *Bucket*

SC and RO are not present in shown Table 45-4, no need to present them.  
There are also other footnotes to tables in Clause 45 that list bit types not listed in this amendment.

**SuggestedRemedy**  
Remove ", SC = Self-clearing, RO = Read only" from footnote to Table 45-4

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 045**    **SC 45.2.1.4**    **P 31**    **L 3**    # **i-14**  
Marris, Arthur    Cadence Design Syste

**Comment Type G**    **Comment Status D**    *Bucket*

Remove mention of 802.3bn

**SuggestedRemedy**  
Delete:  
(as modified by IEEE Std 802.3bn-201x which inserted a row for bit 1.4.10)

Add new row 1.4.10 to table named "Reserved for future speeds"

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT IN PRINCIPLE.

Resolve using the response for comment i-33.

**Cl 045**    **SC 45.2.1.4**    **P 31**    **L 3**    # **i-33**  
Anslow, Peter    Ciena Corporation

**Comment Type E**    **Comment Status D**    *Bucket*

Since it is unlikely that the P802.3bn amendment will be approved before P802.3by completes, it is not appropriate to refer to 802.3bn in the editing instruction.

**SuggestedRemedy**  
Change the editing instruction to: "Change the reserved row for 1.4.15:10 in Table 45-6 and insert two new rows immediately below as follows (unchanged rows not shown):" Show the reserved row as being changed from "1.4.15:10" and add another row for "1.4.10", "Reserved", "Value always 0", "RO"

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 045**    **SC 45.2.3.6**    **P 43**    **L 3**    # **i-15**  
Marris, Arthur    Cadence Design Syste

**Comment Type G**    **Comment Status D**    *Bucket*

Remove mention of 802.3bq

**SuggestedRemedy**  
Delete:  
(as modified by IEEE Std 802.3bq-201x)

Change 110 entry to Reserved

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 045**    **SC 45.2.3.7**    **P 43**    **L 30**    # **i-16**  
Marris, Arthur    Cadence Design Syste

**Comment Type E**    **Comment Status D**    *Bucket*

Remove mention of 802.3bq

**SuggestedRemedy**  
Delete:  
(as modified by IEEE Std 802.3bq-201x which inserted a row for bit 3.8.6)

Add additional row for bit 3.8.6 and mark it as reserved

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

**Cl 073**    **SC 73.6.4**    **P 55**    **L 5**    # **i-20**  
RAN, ADEE    Intel Corporation

**Comment Type E**    **Comment Status D**    *Bucket*

Missing dash in 25GBASEKR-S

**SuggestedRemedy**  
Change 25GBASEKR-S to 25GBASE-KR-S

**Proposed Response**    **Response Status W**  
PROPOSED ACCEPT.

## IEEE 802.3by D3.0 25 Gb/s Ethernet Initial Sponsor ballot comments

Cl 074 SC 74.1 P 59 L 11 # i-98  
Law, David Hewlett Packard Enter

Comment Type T Comment Status D Bucket

The current IEEE Std 802.3-2015 subclause 74.1 text reads '... as shown in Figure 74-2, Figure 74-3, and Figure 74-4.' where Figure 74-2 is the 'Functional block diagram for 10GBASE-R PHYs', Figure 74-3 is the 'Functional block diagram for 40GBASE-R PHY' and Figure 74-4 is the 'Functional block diagram for 100GBASE-R PHY'.

*SuggestedRemedy*

Suggest the text '... as shown in Figure 74-2, Table 74-2a, and Figure 74-4.' be changed to read '... as shown in Figure 74-2, Figure 74-2a, Figure 74-3, and Figure 74-4.'.

Proposed Response Response Status W  
PROPOSED ACCEPT.

Cl 074 SC 74.7.4.1.2 P 64 L 45 # i-7  
Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D Bucket

Serial comma missing in "Reverse gearbox function for 25GBASE-R, 40GBASE-R and 100GBASE-R"

*SuggestedRemedy*

Change to "Reverse gearbox function for 25GBASE-R, 40GBASE-R, and 100GBASE-R"

Proposed Response Response Status W  
PROPOSED ACCEPT.

Cl 105 SC 105.4.3.2.1 P 82 L 1 # i-9  
Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D bucket

Is there any specific reason why arrows for FEC:IS\_UNITDATA.request and PMA:IS\_UNITDATA.indication have white spaces in them?

*SuggestedRemedy*

It seems like a leftover from a drawing that had multiple entries for these primitive names. Remove empty white boxes, unless dashed arrows have special meaning here (which is not noted).

Proposed Response Response Status W  
PROPOSED ACCEPT IN PRINCIPLE.

It is assumed that the commenter is referring to Figure 105-2.

The breaks in the lines are indeed white boxes that were previously used as background for text that has since been removed.

Fix the lines such that they are continuous rather than broken.

Cl 106 SC 106.3 P 91 L 7 # i-10  
Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D Bucket

Missing space between "100" and "ppm" in "390.625 MHz +/-100ppm"

*SuggestedRemedy*

Change to "390.625 MHz +/-100 ppm"  
Also in PICS FS2 and FS4

Proposed Response Response Status W  
PROPOSED ACCEPT.

Cl 109 SC 109.1.1 P 124 L 8 # i-53  
Dudek, Michael QLogic Corporation

Comment Type E Comment Status D bucket

Poor English

*SuggestedRemedy*

Add "of" between "family" and "25Gb/s"

Proposed Response Response Status W  
PROPOSED ACCEPT.

# IEEE 802.3by D3.0 25 Gb/s Ethernet Initial Sponsor ballot comments

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**Cl 109**    **SC 109.7.4.1**    **P 136**    **L 34**    # **i-67**  
Dawe, Piers J G    Mellanox Technologie

**Comment Type**    **E**    **Comment Status**    **D**    *bucket*  
PMA Functions

**SuggestedRemedy**  
PMA functions

**Proposed Response**    **Response Status**    **W**  
PROPOSED ACCEPT.

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**Cl 110**    **SC 110.1**    **P 138**    **L 42**    # **i-68**  
Dawe, Piers J G    Mellanox Technologie

**Comment Type**    **E**    **Comment Status**    **D**    *bucket*  
D2.1 comment 92 would apply here also:  
What do you mean, "supports operation"?

**SuggestedRemedy**  
Change "supports operation" to "operates", twice.

**Proposed Response**    **Response Status**    **W**  
PROPOSED ACCEPT.

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**Cl 110**    **SC 110.8.4.2.1**    **P 149**    **L 9**    # **i-75**  
Dawe, Piers J G    Mellanox Technologie

**Comment Type**    **E**    **Comment Status**    **D**    *bucket*  
Pattern Generator

**SuggestedRemedy**  
Pattern generator

**Proposed Response**    **Response Status**    **W**  
PROPOSED ACCEPT.

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**Cl 111**    **SC 111.9**    **P 176**    **L 37**    # **i-1**  
Obara, Satoshi    FUJITSU

**Comment Type**    **E**    **Comment Status**    **D**    *bucket*  
In the last paragraph, "92.9.3" seems to be typo.

**SuggestedRemedy**  
Change "92.9.3" into "93.9.3".

**Proposed Response**    **Response Status**    **W**  
PROPOSED ACCEPT.

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