

cal Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T 2nd Working Group rec

Cl 113 SC 113.3.3.2.5 P L # 158

Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

Some sloppiness in Figure 113-7: also in previous figure 113-6 although less pronounced. The box for 513B block #2 is taller than the box for 513B block #1. What looks like bit divisions within the 513B blocks and 65B blocks isn't, and all of the small lines aren't the same length or at the same level, but since they don't correspond to any fixed unit of information, perhaps just eliminate the small lines rather than fix them.

SuggestedRemedy

Zoom in close and tidy up the figure(s) as indicated.

Proposed Response Response Status W

PROPOSED ACCEPT.

Commenter is advised that these same minor defects exist in Clause 55 for 802.3bx d3p2, and may consider editorial clean-up next time a revision comes around.

Cl 113 SC 113.3.3.2.20 P 100 L 39 # 159

Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

The arrowhead down from the "Switch" box overlaps the word "Output" below.

SuggestedRemedy

Move the word "Output" out from under the arrow head

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.3.2.2.24 P 103 L 18 # 220

Regev, Alon Ixia

Comment Type E Comment Status D EZ

"a analogous manner" should be "an analogous manner"

SuggestedRemedy

change "a analogous manner" to "an analogous manner"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.3.6.2.2 P 113 L 16 # 226

Regev, Alon Ixia

Comment Type T Comment Status D EZ

"!tx\_refresh\_active" should be "!tx\_refresh\_active"

SuggestedRemedy

change "!tx\_refresh\_active" to "!tx\_refresh\_active"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.3.6.2.3 P 113 L 45 # 221

Regev, Alon Ixia

Comment Type E Comment Status D EZ

"it's" should be "its"

SuggestedRemedy

change "it's" to "its"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 99 SC Introduction P 12 L 19 # 150

Amason, Dale Freescale

Comment Type E Comment Status D EZ

Text incomplete: "This amendment includes changes to IEEE Std 802.3-20XX and adds Clause 113, and ."

SuggestedRemedy

Combine two sentences into one:

This amendment includes changes to IEEE Std 802.3-20XX and adds a new Physical Layer for 40 Gb/s operation over balanced twisted-pair structured cabling systems.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Insert "Annex 113A" after "and".

(following sentence is customary to describe the technical content of the standard)

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CI 113 SC 113.4.1 P 124 L 37 # 160

Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

The term "received\_clock" runs over the edge of the box to the right of it.

SuggestedRemedy

Shift the words down, or make them smaller font, or increase the space between the boxes so that the words fit. While editing the figure, take the opportunity to zoom in close and nudge some of the dots closer to the intersection of lines and making sure that lines meet around corners.

Proposed Response Response Status W

PROPOSED ACCEPT.

Commenter is advised that these same minor defects exist in Clause 55 for 802.3bx d3p2, and may consider editorial clean-up next time a revision comes around.

CI 113 SC 113.4.2.5.3 P 131 L 9 # 161

Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

Figure 113-27 is drawn sloppily.

SuggestedRemedy

Make sure the small lines at the bottom between bit positions are the same height and evenly spaced. The words "bit7", "bit6", etc., seem to be a few pixels off from each other in vertical spacing.

Proposed Response Response Status W

PROPOSED ACCEPT.

Commenter is advised that these same minor defects exist in Clause 55 for 802.3bx d3p2, and may consider editorial clean-up next time a revision comes around.

CI 113 SC 113.4.2.5.15 P 136 L 40 # 227

Regev, Alon Ixia

Comment Type T Comment Status D EZ

"rem\_rcvr status" should be "rem\_rcvr\_status"

SuggestedRemedy

change "rem\_rcvr status" to "rem\_rcvr\_status"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 113 SC 113.4.6.3 P 149 L 20 # 228

Regev, Alon Ixia

Comment Type T Comment Status D EZ

"maxwait\_time\_done" should be "maxwait\_timer\_done"

SuggestedRemedy

change "maxwait\_time\_done" to "maxwait\_timer\_done"

Proposed Response Response Status W

PROPOSED ACCEPT.

Commenter is advised that same error exists in 802.3bx D3p2, Clause 55.4.6.3, Figure 55-31, and may wish to submit a maintenance request.

CI 113 SC 113.4.6.5 P 151 L 15 # 229

Regev, Alon Ixia

Comment Type T Comment Status D EZ

"start\_link\_fail\_sig\_timer" should be "start link\_fail\_sig\_timer"

SuggestedRemedy

change "start\_link\_fail\_sig\_timer" to "start link\_fail\_sig\_timer"

Proposed Response Response Status W

PROPOSED ACCEPT.

Commenter is advised that same error exists in 802.3bx D3p2, Clause 55.4.6.3, Figure 55-31, and may wish to submit a maintenance request.

CI 113 SC 113.6.2 P 164 L 39 # 230

Regev, Alon Ixia

Comment Type T Comment Status D EZ

"PMA\_CONFIG.indicate" should be "PMA\_CONFIG.indication" (to match the definition in 113.2.2.2).

SuggestedRemedy

change "PMA\_CONFIG.indicate" to "PMA\_CONFIG.indication" (in 2 locations in the draft)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Commenter is advised that same errors exists in 802.3bx D3p2, Clause 55 and may wish to submit a maintenance request.

cal Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T 2nd Working Group rec

CI 113 SC 113.7.4.1 P 172 L 32 # 203  
 Moffitt, Bryan CommScope  
 Comment Type E Comment Status D EZ  
 dB is smushed into the equation  
 SuggestedRemedy  
 unsmush  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 Editor notes this comment is out of scope for this review

CI 113 SC 113.7.3.2.1 P 172 L 7 # 201  
 Moffitt, Bryan CommScope  
 Comment Type E Comment Status D EZ  
 dB is italicised  
 SuggestedRemedy  
 un  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.  
 Editor notes this comment is out of scope for this review

CI 113 SC 113.7.4.3.5 P 175 L 47 # 184  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status D EZ  
 The commenter recognizes this text as unchanged/out of scope of this review  
 Equation is missing (moved to next page for some reason).  
 Note: Subclause, page, and line references are from CLEAN version of D2.2.  
 SuggestedRemedy  
 Show FrameMake who's boss and anchor that equation in the appropriate location.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI Annex SC 113A.3 P 204 L 19 # 222  
 Regev, Alon Ixia  
 Comment Type E Comment Status D EZ  
 extra "measured to" in "The clamp should be tested to measured to ensure the insertion loss and return loss are as specified in 113A.2."

SuggestedRemedy  
 change  
 "The clamp should be tested to measured to ensure the insertion loss and return loss are as specified in 113A.2."  
 To  
 "The clamp should be tested to ensure the insertion loss and return loss are as specified in 113A.2."  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI Annex SC 113A.3 P 204 L 20 # 223  
 Regev, Alon Ixia  
 Comment Type E Comment Status D EZ  
 "teh" should be "the"  
 SuggestedRemedy  
 change "teh" to "the"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

CI 113A SC 113A.3 P 205 L 24 # 176  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status D EZ  
 The commenter recognizes this text as unchanged/out of scope of this review.  
 Is the use of "shall" in an informative annex ok? Would "should" be more appropriate?  
 "shall" also appears on pg 206 line 23.  
 Note: Subclause, page, and line references are from CLEAN version of D2.2.  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Commenter is correct - shall's should not be in an informative annex.  
 Editor to search and replace all shalls in Annex 113A with "should"

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Cl Annex SC 113a.3 P 205 L 34 # 224

Regev, Alon Ixia

Comment Type E Comment Status D EZ

missing space between "from the cable clamp." and "The cable".

SuggestedRemedy

change "from the cable clamp.The cable"  
to "from the cable clamp. The cable"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 30 SC 30.2.5 P 27 L 6 # 170

Law, David HP

Comment Type E Comment Status D EZ

Suggest that only the table header, with the changed column header, be shown, and unchanged rows should not.

SuggestedRemedy

[1] Change the editing instructions from '... in Table 30-1e as follows:' to read '... in Table 30-1e as follows (unchanged lines not shown):'

[2] Delete all unchanged Table 30-1e rows from draft.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 30 SC 30.3.2.1.2 P 29 L 46 # 168

Law, David HP

Comment Type E Comment Status D EZ

The editing instruction should appear under the subclause heading of the subclause they apply to, not above (see pdf page 57 and 58 of 2014 IEEE-SA Standards Style Manual). This seems to have been followed throughout the draft, except in the case of the Clause 30 changes and some Clause 45 changes.

SuggestedRemedy

Ensure editing instruction are under the subclause heading of the subclause they apply to.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 30 SC 30.5.1.1.2 P 31 L 18 # 166

Law, David HP

Comment Type T Comment Status D EZ

An entry in "APPROPRIATE SYNTAX" list for subclause 30.5.1.1.2 'aMAUType' should be added for 40GBASE-T.

SuggestedRemedy

Insert the following change for subclause 30.5.1.1.2:

30.5.1.1.2 aMAUType

Insert the following new entry in "APPROPRIATE SYNTAX" (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) after the entry for "40GBASE-FR":

Editor's Note (to be removed prior to publication): The editing instruction need to be updated once the publication order of the various amendments becomes settled.

40GBASE-T Four-pair twisted-pair balanced copper cabling PHY as specified in Clause 113

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 30 SC 30.5.1.1.19 P 31 L 20 # 167

Law, David HP

Comment Type E Comment Status D EZ

In the changes to subclause 30.5.1.1.19 'aSNROpMarginChnIA' through 30.5.1.1.22 'aSNROpMarginChnID' the terminology '10G or 40GBASE-T' is used however in the change to subclause 30.5.1.1.24 'aLDFastRetrainCount' and subclause 30.5.1.1.25 'aLPFastRetrainCount' the terminology '10/40GBASE-T' is used.

SuggestedRemedy

Suggest that the terminology '10GBASE-T or 40GBASE-T' be used in all six cases, hence:

In subclause 30.5.1.1.19 'aSNROpMarginChnIA' through 30.5.1.1.22 'aSNROpMarginChnID' change the text '... for the 10G or 40GBASE-T PMA.' to read '... for the 10GBASE-T or 40GBASE-T PMA.'

In subclause 30.5.1.1.24 'aLDFastRetrainCount' and subclause 30.5.1.1.25 'aLPFastRetrainCount' change the text '... number of 10/40GBASE-T fast retrains ...' to read '... number of 10GBASE-T or 40GBASE-T fast retrains ...'.

Proposed Response Response Status W

PROPOSED ACCEPT.

cal Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T 2nd Working Group rec

Cl 30 SC 30.3.2.1.3 P 31 L 6 # 187

Donahue, Curtis UNH-IOL

Comment Type E Comment Status D EZ

The commenter recognizes this text as unchanged/out of scope of this review

Add a space between "Clause 73" and "Auto-Negotiation". Also, remove ";" on line 11.

Note: Subclause, page, and line references are from CLEAN version of D2.2.

*SuggestedRemedy*

See comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 30 SC 30.5.1.1.24 P 32 L 24 # 169

Law, David HP

Comment Type T Comment Status D EZ

Rather than just listing a cross-reference to the subclause where the register can be found to support this attribute, suggest that the behaviour be updated to follow the more usual format (see subclause 30.5.1.1.22 'aSNROpMarginChnID' above for an example).

*SuggestedRemedy*

[1] Change the subclause 30.5.1.1.24 'aLDFastRetrainCount' editing instructions to read 'Change 30.5.1.1.24 aLDFastRetrainCount as follows:'.

[2] In subclause 30.5.1.1.24 'aLDFastRetrainCount' change the text '... PHY event counter (see 45.2.1.79.2, 55.4.5.1, and 113.4.5.4).' to read '... PHY event counter (55.4.5.1 and 113.4.5.4). If a Clause 45 MDIO Interface to the PMA/PMD is present, then this attribute maps to the LD fast retrain count register (see 45.2.1.79.2).';

[3] Change the subclause 30.5.1.1.25 'aLPFastRetrainCount' editing instructions to read 'Change 30.5.1.1.25 aLPFastRetrainCount as follows:'.

[4] In subclause 30.5.1.1.25 'aLPFastRetrainCount' change the text '... PHY event counter (see 45.2.1.79.1, 55.4.5.1, and 113.4.5.4).;' to read '... PHY event counter (see 55.4.5.1, and 113.4.5.4.). If a Clause 45 MDIO Interface to the PMA/PMD is present, then this attribute maps to the LP fast retrain count register (see 45.2.1.79.1).';

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.6 P 35 L 45 # 165

Law, David HP

Comment Type T Comment Status D EZ

The editing instructions for subclause 45.2.1.6 'PMA/PMD control 2 register (Register 1.7)' state that 'unchanged rows not shown', yet Table 45-7 'PMA/PMD control 2 register bit definitions' show the unchanged rows.

Further, the changes made by the IEEE P802.3bw and IEEE P802.3by amendment drafts, which are likely to publish before this draft, are not shown, and the IEEE P802.3bp and IEEE P802.3bn amendment drafts are also modifying this register.

*SuggestedRemedy*

[1] Remove the unchanged rows from Table 45-7.

[2] Change the editing instructions to read 'Change the indicated line, and insert the new line immediately after, in the 1.7.5:0 row of Table 45-7 (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD), as follows (unchanged lines not shown):'

[3] Add an editor's note that reads 'Editor's Note (to be removed prior to publication): The editing instruction need to be updated once the publication order of the various amendments becomes settled.'

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1 P 36 L 9 # 219

Regev, Alon Ixia

Comment Type E Comment Status D EZ

In editorial instructions, "through" is misspelled as "thoug".

*SuggestedRemedy*

change "1.145 though 1.146" to "1.145 through 1.146"

Proposed Response Response Status W

PROPOSED ACCEPT.

cal Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T 2nd Working Group rec

Cl 45 SC 45.2.3.14 P 45 L 12 # 225

Regev, Alon Ixia

Comment Type E Comment Status D EZ

"MultiGBASE-T PCS status 2 register is shown in Table ." should be  
"MultiGBASE-T PCS status 2 register is shown in Table 45-129."

SuggestedRemedy

Change  
"MultiGBASE-T PCS status 2 register is shown in Table ."  
To  
"MultiGBASE-T PCS status 2 register is shown in Table 45-129."

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 55 SC 55.3.5.3 P 56 L 44 # 218

Regev, Alon Ixia

Comment Type E Comment Status D EZ

"signaling" misspelled as "signalling" (in multiple places in the draft).

SuggestedRemedy

change "signalling"  
to "signaling"

Proposed Response Response Status W

PROPOSED REJECT.  
Signaling is a correct alternative spelling and is used throughout the draft of 802.3 d3p2.  
Signalling is not used in 802.3 d3p2 (at least in sections 4 & 6)

Cl 81 SC 81.1.7.3 P 63 L 42 # 171

Law, David HP

Comment Type E Comment Status D EZ

It seems odd to state that 'The RS never generates this primitive ...' but to then state there are two cases where it does, when EEE or Link Interruption is supported.

SuggestedRemedy

The RS only generates this primitive when optional EEE capability or the optional detection of Link Interruption is supported.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 81 SC 81.1.7.3 P 63 L 42 # 175

Law, David HP

Comment Type T Comment Status D EZ

To cover all the cases of the two options being supported or not, suggest that first two sentences of the second paragraph of 81.1.7.3 be changed to read 'CARRIER\_STATUS is set to CARRIER\_ON if the optional EEE capability is supported and LPI\_CARRIER\_STATUS is TRUE, or if optional detection of Link Interruption is supported and link\_fault is Link Interruption (see 81.3.4.1). CARRIER\_STATUS is set to CARRIER\_OFF if, the optional EEE capability is not supported or LPI\_CARRIER\_STATUS is FALSE, and, if optional detection of Link Interruption is supported or link\_fault is not Link Interruption.'

SuggestedRemedy

See comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.1.1 P 68 L 13 # 162

Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

The dashed lines from the OSI stack to the rest of the figure aren't the same style as the rest of the standard. The line between the data link and physical layers doesn't extend all the way to the corner of the MAC box on the right as the rest of the figures in the standard

SuggestedRemedy

Clean up the figure so that the line styles match the rest of the standard and the lines all continue to where they are supposed to go

Proposed Response Response Status W

PROPOSED ACCEPT.  
Commenter is advised that these same minor defects exist in Clause 55 for 802.3bx d3p2, and may consider editorial clean-up next time a revision comes around.

cal Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T 2nd Working Group rec

Cl 113 SC 113.1.2 P 71 L 30 # 163  
Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

Several sloppy things in the figure: many of the dots aren't positioned over the actual intersection of the lines they are supposed to connect. Some of the lines don't meet around corners. Some of the "T" intersections of lines extend across the other side of the line where they are supposed to terminate

*SuggestedRemedy*

Zoom in close and nudge the various elements to line up and tidy up the figure.

Proposed Response Response Status W

PROPOSED ACCEPT.  
Commenter is advised that these same minor defects exist in Clause 55 for 802.3bx d3p2, and may consider editorial clean-up next time a revision comes around.

Cl 113 SC 113.3.2 P 85 L 18 # 157  
Trowbridge, Steve Alcatel-Lucent

Comment Type E Comment Status D EZ

Some sloppiness in Figure 113.5. Not all the arrow heads are at the same level (some go over the line and some don't meet it). Some dots not over the lines they connect. Some lines don't connect where they are supposed to.

*SuggestedRemedy*

Zoom in close and nudge the elements of the figure to align and tidy it up.

Proposed Response Response Status W

PROPOSED ACCEPT.  
Commenter is advised that these same minor defects exist in Clause 55 for 802.3bx d3p2, and may consider editorial clean-up next time a revision comes around.

Cl 113 SC 113.3.2.2.16 P 96 L 24 # 231  
Slavick, Jeff Avago Technologies

Comment Type ER Comment Status D EZ

In the Examples 1&2 step 3 is missing

*SuggestedRemedy*

Re-number Example 1 & 2 appropriately

Proposed Response Response Status W

PROPOSED ACCEPT.