

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

Cl 80 SC 80.1 P 61 L 11 # 61  
Marris, Arthur Cadence

Comment Type ER Comment Status A EZ  
No editing instruction for Figure 80.1

SuggestedRemedy

Insert editing instruction  
"Replace Figure 80-1 with the following:"

Response Response Status W  
ACCEPT. Dup of comment 381

Cl 81 SC 81.1 P 65 L 10 # 62  
Marris, Arthur Cadence

Comment Type ER Comment Status A EZ  
Incorrect editing instruction

SuggestedRemedy

Change  
Change Figure 81-1 as follows:  
To  
Replace Figure 81-1 as follows:

Also fix key at bottom of Figure 81.1

Response Response Status W  
ACCEPT.

Cl 113 SC 113.1 P 71 L 20 # 65  
Marris, Arthur Cadence

Comment Type TR Comment Status A EZ  
No need to mention Cluase 30 here.

SuggestedRemedy

Replace  
"Management is specified in Clause 30."  
With  
"Management functions are optionally accessible through the management interface defined in Clause 45, or equivalent."

Response Response Status W  
ACCEPT.

Text is consistent with Clause 55 but that is inconsistent with other 10G clauses. Commenter is encouraged to submit a maintenance request or comment on a revision draft to clause 55

Cl 113 SC 113.1.2 P 72 L 7 # 66  
Marris, Arthur Cadence

Comment Type TR Comment Status A EZ  
XLGMII is never physically implemented.

SuggestedRemedy

Change  
The 40GBASE-T PHY architecture specified in this standard is referenced to the XLGMII interface, it is recognized that the XLGMII interface need not be physically implemented. Chip to chip interfaces based on other IEEE defined 40Gb/s PCS/PMA combinations which translate to XLGMII may be used

To  
The 40GBASE-T PHY service interface is the XLGMII, which is defined in Clause 81. The 40GBASE-T PHY may connect to the 40 Gb/s Attachment Unit Interface (XLAUI) defined in Annex 83B using the PCS defined in Clause 82.

Remove "\*\*XLGMII is optional" from Figure 113-1

Response Response Status W  
ACCEPT.

Cl 113 SC 113.1.3.1 P 76 L 1 # 68  
Marris, Arthur Cadence

Comment Type ER Comment Status A EZ  
Heading depth wrong.

SuggestedRemedy

Promote to heading 2:  
113.2 Physical Coding Sublayer (PCS)

Consider promoting "113.1.3 Operation of 40GBASE-T"

Consider restructuring document to remove split between PCS description in the overview and later in the document.

Response Response Status W

ACCEPT IN PRINCIPLE.  
Change headings to read "Summary of Physical Coding Sublayer" so as not to be confused with 113.3 which specifies the PCS  
do similar change to other 113.1.3.x titles

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

CI 113 SC 113.3.4 P 110 L 12 # 93

McClellan, Brett

Marvell

Comment Type TR Comment Status R Training

The optional periodic training sequence in this text is identical to the 10GBASE-T periodic training that was added to Clause 55 based on a vendor proposal:  
[http://www.ieee802.org/3/an/public/nov04/ungerboeck\\_1\\_1104.pdf](http://www.ieee802.org/3/an/public/nov04/ungerboeck_1_1104.pdf) slide 23  
 However, the same vendor recently reported that the periodic training sequence is not used by any 10GBASE-T device and is not suitable for adapting equalizer and canceller coefficients.  
[http://www.ieee802.org/3/bq/public/jul14/souvignier\\_3bq\\_01\\_0714.pdf](http://www.ieee802.org/3/bq/public/jul14/souvignier_3bq_01_0714.pdf) slide 3  
 If requested by the link partner a local device is required to transmit the periodic training sequence resulting in poor adaptation of echo and NEXT cancellers at the local device.  
 Further, 10GBASE-T and 40GBASE-T share one advertisement bit for the periodic training request from the link partner. Since 10GBASE-T PHY's cannot work with the periodic training, a 10G/40G capable PHY will never advertise the periodic training.

*SuggestedRemedy*

Eliminate the optional periodic training sequence.

113.3.4 PMA training side-stream scrambler polynomials

remove text:

"Moreover during Auto-Negotiation each transceiver may request the remote transceiver to reinitialize the values of its scrambler state after every 16384 symbol periods, to generate a periodically repeating pattern with repetition period 16384. The initial 33-bit values of the scrambler state shall be generated by combining 0x39A422 for the 22 MSBs and random value SB10-SB0 from Table 113-20 generated by the local device for the 11 LSBs as shown in Figure 113-14."

Figure 113-14

remove text from "n mod 16384 = 0" through "else:"

113.3.5.3 Refresh period signaling

delete the text:

"The training sequence without periodic reinitialization described in 113.3.4 shall be used during the LPI mode, with the scramblers free-running starting in the state PMA\_PBO\_Exch. If scrambler reinitialization is used for normal training, it shall be disabled and the scramblers shall begin free-running when the PHY Control state diagram is in the state PMA\_PBO\_Exch and the receiver detects a valid requested transmitter PBO setting (Oct 7 Valid<7> equal to 1)."

113.4.2.5.15 page 141 line 15

change "The training sequence without periodic re-initialization described in 113.3.4 shall be used

during fast retraining, with the scramblers free-running from PCS Reset. If scrambler re-initialization is used for normal training, it shall be disabled and the scramblers shall begin free-running when the PHY Control state diagram enters the PCS\_Test state and the variable fr\_active is FALSE."

to "The training sequence in 113.3.4 shall be used during fast retraining, with the scramblers free-running from PCS Reset."

113.6.1 Support for Auto-Negotiation

page 168 line 38 delete item c)

Table 113-20 in row U20 change text from "LD PMA training reset request" to either "10GBASE-T LD PMA training reset request" or "This bit is not defined for 10GBASE-T but reserved for future use." depending on resolution to comment on 10GBASE-T periodic training.

113.12.3 Physical Coding Sublayer (PCS)

delete the line items:

PCT19 PMA training scrambler reset

PCT31 Disable scrambler reinitialization

under "PCT30 LPI scrambler" delete the text:

"The training sequence without periodic re-initialization described in 113.3.5 shall be used"

Response Response Status U

REJECT.

See comment 84.

Periodic training sequence for 40GBASE-T was modified during d1.1.1 comment resolution to address issues with 10GBASE-T periodic training.

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

CI 113 SC 113.6.1.2 P 170 L 20 # 107  
 Lo, William Marvell Semiconductor

Comment Type TR Comment Status A Training

40GBASE-T specifies option to reset training PRBS. However it is not clear such bit is defined in table 113-20

SuggestedRemedy

Option 1:

In bit U20 rename "LD PMA training reset request" to "40/10GBASE-T LD PMA training reset request"

The rationale of sharing the same bit for both speeds is that any implementation that prefers one way for one speed will most likely prefer the same way for the other speed. There is no need to specify a separate bit for 10G and 40G.

Option 2:

Remove the option to reset PMA training PRBS every frame in 40GBASE-T

Commenter is ok if either option 1 or 2 adopted.

Response Response Status U

ACCEPT IN PRINCIPLE.  
 See comment 84.

Task Force to discuss with 93 & 84

Straw Poll:

Allocate a new autoneg bit (U21) for 40GBASE-T LD PMA training reset request  
 4

OR

Remove the option to reset PMA training PRBS every frame in 40GBASE-T  
 13

Move to remove the option to reset PMA training PRBS every frame in 40GBASE-T

M: Brett McClellan

S: William Lo

Y: 13

N: 6

A: 17

MOTION FAILS (Technical >= 75%)

CI 00 SC 0 P L # 116  
 Anslow, Pete Ciena

Comment Type TR Comment Status A 25G

The objectives of the P802.3bq project were changed by motion #32 of the Berlin plenary to include:

"Support a data rate of 25 Gb/s at the MAC/PLS Service Interface

Define a single 25 Gb/s PHY supporting operation on the link segment"

This draft does not include a PHY to satisfy these objectives

SuggestedRemedy

Either:

remove the objectives

or:

modify the project PAR and CSD responses to reflect the additional objectives and revise the draft to include a suitable PHY

Response Response Status U

ACCEPT IN PRINCIPLE.

Objectives are removed AND

PAR modifications were accidentally omitted from motions at Berlin plenary - project CSD

modifications were approved.

Move project PAR for WG approval and progress project documentation at earliest opportunity.

CI 01 SC 1.3 P 20 L 8 # 228  
 Booth, Brad Microsoft

Comment Type TR Comment Status R Cablingrefs

Reference to ANSI specification is incorrect. This draft specification must reference an existing specification or draft specification, not a pending specification.

SuggestedRemedy

Provide the correct reference.

Response Response Status U

REJECT.

Referenced document is a draft specification.

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

Cl 28A SC 0 P 25 L 1 # 248  
 Frazier, Howard Broadcom Corporation  
 Comment Type TR Comment Status A EZ  
 Annex 28A does not belong in this draft amendment because there are no changes being made to it.  
 SuggestedRemedy  
 Delete Annex 28A from this draft amendment.  
 Response Response Status W  
 ACCEPT. (dup of comments 5, 138, 375, 260, 263)

Cl A SC n/a P 21 L 1 # 373  
 Remein, Duane Huawei Technologies  
 Comment Type ER Comment Status A EZ  
 Annex A should not be included if there are no changes to it.  
 SuggestedRemedy  
 Remove Annex A  
 Response Response Status W  
 ACCEPT IN PRINCIPLE. Dup of comments 232, 256, 213, 54.  
 See comment 256

Cl 01 SC 1.3 P 20 L 7 # 371  
 Remein, Duane Huawei Technologies  
 Comment Type ER Comment Status A Cablingrefs  
 Should not reference draft documents  
 SuggestedRemedy  
 Add editors note that these two references will be updated before the end of sponsor ballot when the specifications are released.  
 Response Response Status W  
 ACCEPT IN PRINCIPLE.  
 Add editor's note to be included consistent with other IEEE copper standards pointing to ISO/IEC references e.g., 802.3ba. Editorial license to implement.

Cl 28 SC 28.3 P 23 L 5 # 374  
 Remein, Duane Huawei Technologies  
 Comment Type ER Comment Status A EZ  
 28 instances of "as appropriate" are inappropriate. You need to tell the staff editors what they are to do and not do what they think is appropriate.  
 SuggestedRemedy  
 Change "as appropriate" to "as shown below" or "as follows" or similar wording that does not leave it to the editor's desecration.  
 Response Response Status W  
 ACCEPT. See comment 409.  
 The editor shall not desecrate the standard.

Cl 30 SC 30.2.5 P 29 L 7 # 372  
 Remein, Duane Huawei Technologies  
 Comment Type ER Comment Status A Format  
 While the Edition Instruction indicate there are changes in the COLUMN HEADER (which should be marked) of Table 30-1e there are none apparent.  
 Also the Table has some Bold borders which are not in the original Table and should be removed.  
 SuggestedRemedy  
 Change the Editing Instruction to more accurately describe the change or remove the Editing Instruction and Table 30-1e.  
 Response Response Status W  
 ACCEPT IN PRINCIPLE.  
 Change editing instruction to read "Change column header of '10GBASE-T Operating Margin Package...' to read '10G/40GBASE-T Operating Margin Package...' as shown "  
 Check borders and align with current table in revision draft

Cl 28A SC n/a P 25 L 1 # 375  
 Remein, Duane Huawei Technologies  
 Comment Type ER Comment Status A EZ  
 If there are no changes (as indicated by Editors Instructions) then the clause should be excluded from the draft. If you anticipate changes then why are you in WG Ballot when you are clearly not technically complete?  
 SuggestedRemedy  
 Remove Annex 28A from Draft.  
 Response Response Status W  
 ACCEPT. (dup of comments 5, 138, 248, 260, 263)

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

CI 45 SC 45 P 37 L 3 # 376  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Strike the bracketed text as indicate by the following note in the template:  
 "[Notes for editors (not to be included in the published draft - not even D1.0!)]"

SuggestedRemedy  
 per comment

Response Response Status W  
 ACCEPT.

CI 45 SC 45.2.1.12.10 P 40 L 2 # 377  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Subclause number is incorrect:  
 45.2.1.12.10 40GBASE-T ability (1.13.6)

SuggestedRemedy  
 Change to 45.2.1.12.9a in heading and Editing Instruction.  
 (See P802\_3xx\_D0p1\_version\_2p3 pg 15 ln 31 for conventions)

Response Response Status W  
 ACCEPT.

CI 45 SC 45.2.1.12 P 39 L 37 # 378  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Are you change rows or inserting rows (only one row is shown in the table)?  
 "Change and insert rows in Table 45-16 as appropriate."

SuggestedRemedy  
 Change Editing Instruction to read:  
 "Change row in Table 45-16 as shown."

Response Response Status W  
 ACCEPT.

CI 45 SC 45.2.1.62.1 P 40 L 26 # 379  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Editing instruction is very confusing  
 "Change title and rows and insert row in Table 45-54 as appropriate."

SuggestedRemedy  
 Change to read:  
 "Change title in Table 45-54 as shown.  
 Might also want to drop the actual table which is not being changed as has been done in subsequent sections.

Response Response Status W  
 ACCEPT IN PRINCIPLE.  
 Change to read "Change title in Table 45-54 as shown."  
 Delete table, and show only title

CI 45 SC 45.2.7.10 P 48 L 30 # 380  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Editing Instructions pointing to incorrect subclauses and headers missing section numbers:  
 "Insert new paragraph after 45.2.7.10.3 ..."  
 "40GBASE-T capability (7.32.11)"

"Insert new paragraph after 45.2.7.10.6 ..."  
 40GBASE-T Fast retrain ability (7.32.3)

"Change title 45.2.7.10.6. Re-number to 45.2.7.10.8."  
 10GBASE-T Fast retrain ability (7.32.1)  
 10GBASE-T Fast retrain ability (7.32.1)

SuggestedRemedy  
 Change to:  
 "Insert new paragraph after 45.2.7.10.4 as shown."  
 "45.2.7.10.4a 40GBASE-T capability (7.32.11)"  
 bla bla bla  
 "45.2.7.10.4b 40GBASE-T Fast retrain ability (7.32.3)"  
 bla bla bla  
 "Change title 45.2.7.10.6. (renumbered due to above);"  
 45.2.7.10.6 10GBASE-T Fast retrain ability (7.32.1)

Response Response Status W  
 ACCEPT.

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

CI 81 SC 81.3.4.2 P 68 L 46 # 383  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

The combination of Editing Instruction and included figure are confusing.  
 "Change 81.3.4.2 State Diagram to include Link Interruption under conditions for variable link\_fault"  
 Is the figure changed or not? It doesn't look like it.

SuggestedRemedy

Change Editing Instruction to read:  
 "Change the text of 81.3.4.2 to include Link Interruption under conditions for variable link\_fault as shown."

Remove is unchanged Figure 81-11

Response Response Status W  
 ACCEPT.

CI 113 SC 113.1 P 71 L 8 # 384  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

We finally get "CSMA/CD out of the standard title and yet we need it here?  
 Note that later clauses of Section 6 only use this phrase in the LAN Model figures.

SuggestedRemedy

Unless you can demonstrate Carrier Sense Multiple Access/Carrier Detect functionality strike this phrase.

Response Response Status W  
 ACCEPT.  
 Recommend commenter submit maintenance or similar comment to Clause 55 on revision draft

CI 113 SC 113.1 P 71 L 13 # 385  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A Cablingrefs

Is some augmentation specified in 113 not "appropriate"?

SuggestedRemedy

Remove "appropriate"

Response Response Status W  
 ACCEPT IN PRINCIPLE.

Delete: with appropriate augmentation as specified in 113.7.  
 Remove period: Page 71 L12 between "cabling as"

CI 113 SC 113.3.6.2 P 115 L 20 # 386  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Constants, variables and functions should be using paragraph tag (style) DefinitionList  
 "For the lists of constants, variables, functions, counters, timers, etc. use the Paragraph Tag DefinitionList."

SuggestedRemedy

Use the proper paragraph styles per the current template.

Response Response Status W

ACCEPT.  
 Editor to review draft for proper paragraph styles prior to publication.  
 (checked w/802.3bx, VariableList style is consistent, not DefinitionList)

CI 113 SC 113.3.6.2.3 P 117 L 44 # 387  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Stray colon:  
 "lfer\_timer:"  
 ^

This appears to be a common error through the draft; some counters have the colon some do not.

SuggestedRemedy

Strike all stray colons  
 Regardless of the accepted remedy be consistent throughout the draft.

Response Response Status W  
 ACCEPT.

CI 00 SC 0 P 1 L 54 # 388  
 Remein, Duane Huawei Technologies

Comment Type ER Comment Status A EZ

Copyright date is not 201x

SuggestedRemedy

Change to 2015

Response Response Status W  
 ACCEPT. Dup of comment 118

Physical Layer and Management Parameters for 40Gb/s Operation, Type 40GBASE-T Initial Working Gr

Cl 113 SC 3 P 99 L # 403  
 Wang, Zhongfeng Broadcom Corp.

Comment Type **TR** Comment Status **R** PCS

Table 113-2  
 title: Trancoded bocks including control blocks (without leading 0).

Given the transcoding operation shown in Table 113-2, we always move control blocks to the top and dmove ata blocks to the bottom. Since data blocks in original 512B block can be in any row, this operation will involve muxing logic for all 64 bits for every data and control block, which casue extra hardware. In addition, at the receiver side, we need wait until entire 513B data is received before finishing reverse transcoding.

*SuggestedRemedy*

- 1) We only need swap location of first byte for each data or control block.  
 This leads to much reduced muxing logic.
- 2) We transmit the first bytes of each data and control block immediately after leading 0. Then we transmit the rest 7 bytes for each data and control block. This will save signiifcant processing latency at receiver side.

The aboves changes fully maintain data mapping of original transcoding operation for each data byte. Only data reordering is involved. So there is no performance hurt.

Please see wang's contributions for detailed description.

Response Response Status **U**

REJECT.  
 Attempt at accept-in-principle:

Make changes documented in Text-comments-40G-T-transcoding.pdf, with the following changes:  
 give Editor license to connect text edit (3) in "comments..." correctly to referenced 'above case with pure data blocks'.

Straw Poll: Y: 8 N: 11

No consensus to make change

Cl 113 SC 113.4.6.1 P 149 L 8 # 441  
 Frazier, Howard Broadcom Corporation

Comment Type **ER** Comment Status **A** Format

In Figure 113-29, the entry tag "I" should not appear on the arc going from the PCS\_Data state to the INIT\_MAXWAIT\_TIMER state but must instead have it's own arc that goes directly into the top of the INIT\_MAXWAIT\_TIMER state. I realize that this is a crowded diagram.

*SuggestedRemedy*

Give the entry tag "I" its own arc into INIT\_MAXWAIT\_TIMER.

Response Response Status **W**

ACCEPT.  
 Figure is identical to Figure in Clause 55, and in the revision draft, without comment, commenter may wish to address with comments on revision or maintenance.

Cl 113 SC 113.4.6.1 P 149 L 37 # 442  
 Frazier, Howard Broadcom Corporation

Comment Type **ER** Comment Status **A** Format

In Figure 113-29, all arcs must enter the top of the state and exit from the bottom of the state, but this was not done for the state PMA\_INIT\_FR.

*SuggestedRemedy*

Change the arcs so that they enter the top and exit from the bottom of the state PMA\_INIT\_FR.

Response Response Status **W**

ACCEPT.  
 Figure is identical to that in clause 55, as well as similar in style to many updated at the same time in 802.3az (Clause 78) - commenter may wish to file maintenance or comments on revision currently in process

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Cl 113 SC 113.5.4.3 P 161 L 32 # 445  
 Frazier, Howard Broadcom Corporation

Comment Type TR Comment Status A PMA

If the editor's note is correct, then this draft was not ready for WG ballot.

SuggestedRemedy

If the editor's note is incorrect, then remove it. If the editor's note is correct, then "confirm the source-adjustment criteria, measurement points, and levels used with the clamp methodology in this subclause" and restart the WG ballot.

Response Response Status W

ACCEPT IN PRINCIPLE.

Remove editor's note.

•Include the proposed text in cibula\_3bq\_02a\_0515.pdf as an informative Annex

•Update 113.5.4.3 to reference the informative Annex as shown on slide 16 of

cibula\_3bq\_02a\_0515.pdf

Including editors notes to highlight technical issues is consistent with 802.3 practice in working group ballots.

Cl 113 SC 113.5.4.5 P 162 L 37 # 446  
 Frazier, Howard Broadcom Corporation

Comment Type ER Comment Status A Shortreach

Subject/verb agreement problem in the sentence: "The short reach link segment meeting the transmission requirements in 113.5.4.6 are specified to support up to 5 meters."

SuggestedRemedy

Delete this sentence, and add change the text of 113.5.4.6 to read:

"The short reach cable assembly contains balanced twisted-pair terminated in a connector at each end for use as a short reach link segment of up to 5 meters in length between MDIs."

Response Response Status W

ACCEPT IN PRINCIPLE.

Implement with comment#97

Cl 113 SC 113.5.4.6 P 162 L 43 # 447  
 Frazier, Howard Broadcom Corporation

Comment Type TR Comment Status R Shortreach

Use of the term "direct attach cable assembly" will cause confusion in the industry. The industry generally regards a DAC cable as being constructed of two twin-axial cables, not a short segment of 4 twisted pair.

SuggestedRemedy

Change the subclause heading to be "Short reach cable assembly" and change the text of the subclause to read:

"The short reach cable assembly contains balanced twisted-pair terminated in a connector at each end for use as a short reach link segment of up to 5 meters in length between MDIs."

Response Response Status W

REJECT.

Direct attach subclause to remain;

Direct attach usage consistent with definitions in specifications for 100 Ω Category 8 Cabling (TR42.7-2015-04-04x-Category-8\_d3.1\_Copyright.pdf) direct attach: A reduced channel definition that includes plug connectors at the beginning and end of the channel and does not contain connecting hardware within the channel.

Cl 113 SC 113.5.4.6 P 162 L 43 # 448  
 Frazier, Howard Broadcom Corporation

Comment Type TR Comment Status A Shortreach

The description of the short reach cable assembly should not be a subclause of the receiver electrical specifications. Instead, it should be a subclause of 113.7 Link segment characteristics.

SuggestedRemedy

Move all of 113.5.4.6 and its subclauses under 113.7.

Response Response Status W

ACCEPT.

See comment 97.

Cl 99 SC 0 P 3 L 1 # 449  
 Frazier, Howard Broadcom Corporation

Comment Type ER Comment Status A EZ

I believe that we agreed that this would be an amendment to IEEE Std 802.3-201x.

SuggestedRemedy

Change year of base standard in the header to be 201x.

Response Response Status W

ACCEPT.



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CI 99 SC 0 P 3 L 13 # 450  
 Frazier, Howard Broadcom Corporation  
 Comment Type ER Comment Status A EZ  
 Missing title of amendment.  
 SuggestedRemedy  
 Provide complete title of amendment in the boxed text "This introduction is not part of..."  
 Response Response Status W  
 ACCEPT.

CI 01 SC 1.3 P 20 L 10 # 452  
 Frazier, Howard Broadcom Corporation  
 Comment Type TR Comment Status A Cablingrefs  
 The base standard lists ISO/IEC 11801:2002 Amendment 1:2008 and Amendment 2:2010, but this draft lists ISO/IEC 11801-1 Edition 3. Is the latest an Amendment or an Edition?  
 SuggestedRemedy  
 Check and correct if necessary.  
 Response Response Status W  
 ACCEPT IN PRINCIPLE.  
 Not to change. Edition 3 is an EDITION. It is the draft revision to ISO/IEC 11081:2002 that is in process reported in several liaison reports.

CI 00 SC 0 P 25 L 54 # 453  
 Frazier, Howard Broadcom Corporation  
 Comment Type ER Comment Status A EZ  
 Copyright year is incorrect.  
 SuggestedRemedy  
 Change to 2015.  
 Response Response Status W  
 ACCEPT. See comment 118

CI 28D SC 28D.9 P 28 L 10 # 455  
 Frazier, Howard Broadcom Corporation  
 Comment Type TR Comment Status R Format  
 The practice that was introduced by 100BASE-T2 of providing a long list of extensions for each new BASE-T PHY is getting out of hand, and will become worse with the future additions of 25G, 2.5G and 5G. Many of the extensions apply to all of the BASE-T PHYs introduced starting with 100BASE-T2. Rather than instantiating a new long list of extensions for 40GBASE-T, it would be better to present this information in tabular form.  
 SuggestedRemedy

Replace 28D.4, 28D.5, 28D.6 and 28D.8 with a new subclause 28D.4 that presents all of the extensions for BASE-T PHYs in a table that is easily extensible to include future BASE-T PHYs.  
 Response Response Status W  
 REJECT.  
 Text is consistent with existing base standard style and practices. Practice describes what capabilities the new PHY requires for those unfamiliar with older PHYs, which is useful. Commentor fails to provide replacement text. Commenter may wish to address this on a full 802.3 scale through maintenance or 802.3bx.

CI 113 SC 113.1.1 P 71 L 31 # 457  
 Frazier, Howard Broadcom Corporation  
 Comment Type TR Comment Status A Format  
 We seem to have a new convention in the 802.3 WG of not including the project objectives in the amendment, so this subclause must be deleted.  
 SuggestedRemedy  
 Delete 113.1.1 Objectives.  
 Response Response Status W  
 ACCEPT.

CI 113 SC 113.3.6.4 P 123 L 27 # 460  
 Frazier, Howard Broadcom Corporation  
 Comment Type TR Comment Status A EEE  
 In Figure 113-17 there is a entry tag "E" into the state TX\_E, but I can't find an exit tag "E" in either part a or part b of the state diagram. (I note that there is an "E" exit tag in part b of the receive diagram.)  
 SuggestedRemedy  
 Remove the tag "E" from the entry conditions to the state TX\_E in Figure 113-17.  
 Response Response Status W  
 ACCEPT.  
 Commenter may wish to pursue comment as maintenance to Clause 55 or as a comment on 802.3bx. This appears to have been introduced in 802.3az-2010, and gone unnoticed until now.

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Cl 113 SC 113.3.6.4 P 125 L 34 # 461  
 Frazier, Howard Broadcom Corporation

Comment Type ER Comment Status A Format

In Figure 113-19, two of the arcs exiting from the RX\_E state are missing a space in "C+". In fact, this whole state diagram has several instances where a space is missing between an operator and operand. Look for "C+" and "T\*".

SuggestedRemedy

Look for "C+" and "T\*" and change to "C +" and "T \*\*".

Response Response Status W

ACCEPT.

Figure is identical to that in clause 55 - commenter may wish to file maintenance or comments on revision currently in process

Cl 113 SC 113.3.6.4 P 125 L 1 # 462  
 Frazier, Howard Broadcom Corporation

Comment Type ER Comment Status A Format

My sympathies to the editor who drew the state diagrams. I know it isn't easy. I observe that the state diagrams look somewhat crowded, with transition conditions overlapping arcs. I think that the diagrams would benefit from being expanded in both dimensions to reduce crowding.

SuggestedRemedy

Expand state diagrams in both dimensions to reduce crowding.

Response Response Status W

ACCEPT IN PRINCIPLE.

Editor to review diagram to expand vertically but keep within a single page.

Note that state diagrams are consistent with style and density of 802.3 standard in other clauses. These particular state diagrams are identical to those in clause 55, and are less crowded than others in IEEE Std. 802.3

Cl 113 SC 113.8.1 P 183 L 3 # 466  
 Lackner, Hans QoSCom GmbH

Comment Type TR Comment Status R MDI

IEC 60603-7-51/81 is not suitable for all applications. It should be possible to use as alternative connector IEC 61076-3-110 or 60603-7-82.

SuggestedRemedy

If backward compatibility offered with IEC 60603-7-81 is not required, the interface specified in IEC 61076-3-110 or 60603-7-82 may be used.

Response Response Status U

REJECT.

Motion: To implement suggest remedy "If backward compatibility offered with IEC 60603-7-81 is not required, the interface specified in IEC 61076-3-110 or 60603-7-82 may be used."

M: Val Maguire  
 S: Yakov Belopolsky  
 Y:6  
 N:16  
 A:2

IEC 60603-7-51/81 shall be used. 113.8.1 MDI connectors  
 Eight-pin connectors meeting the requirements of IEC 60603-7-51 (published) with the improved characteristics and frequency extensions specified in IEC 60603-7-81 shall be used as the mechanical interface to the balanced cabling. The plug connector shall be used on the balanced cabling and the jack on the PHY.

Cl 113 SC 113.7.1 P 174 L 3 # 480  
 Thompson, Geoff GraCaSI S.A.

Comment Type TR Comment Status A Cabling

It says in this line that 40GBASE-T uses "star topology". That is untrue. It uses point-to-point topology as do ALL 802.3 devices which utilize "Link Segments".

SuggestedRemedy

Replace "star" with "point-to-point"

Response Response Status U

ACCEPT IN PRINCIPLE.

Change: a) 40GBASE-T uses a star topology with balanced cabling listed in Table 113-22 used to connect PHY entities.

To: a) 40GBASE-T uses balanced cabling listed in Table 113-22 in a star topology to connect PHY entities.