Approved Responses

IEEE P802.3cx D2.3 ITSA Task Force 3rd Working Group recirculation ballot comments

#490
Grow, Robert  
RMG Consulting  

**Comment Type:** E  **Comment Status:** A  

This list is not in amendment order. It also lists five previous amendments yet P802.3cx is identified as Amendment 5.

**Suggested Remedy:**
If new amendment numbers are assigned for the gaggle of amendments currently assumed to be hitting RevCom in September, obviously use that order. If amendment numbers remain unchanged from the last amendment number assignment, delete P802.3de from this list, and sort in amendment number order.

**Response:** Accept in principle.

Change "IEEE Std 802.3dd-202x, IEEE Std 802.3cs-202x, IEEE Std 802.3db-202x, and IEEE Std 802.3ck-202x" to "IEEE Std 802.3dd-202x, IEEE Std 802.3cs-202x, IEEE Std 802.3db-202x, and IEEE Std 802.3ck-202x".

#491
Grow, Robert  
RMG Consulting  

**Comment Type:** E  **Comment Status:** A  

The changes to the end of this paragraph are inconsistent with the current front matter as found in P802.3/D3.2.

**Suggested Remedy:**
Update for consistency with P802.3/D3.2.

**Response:** Accept.

#492
Grow, Robert  
RMG Consulting  

**Comment Type:** E  **Comment Status:** A  

The section description is not consistent with the current front matter as found in P802.3/D3.2.

**Suggested Remedy:**
Update for consistency with P802.3/D3.2.

**Response:** Accept.

#493
Grow, Robert  
RMG Consulting  

**Comment Type:** E  **Comment Status:** A  

The description of 802.3cs does not agree with the text in P802.3cs/D3.2.

**Suggested Remedy:**
Interchange IEEE Std 802.3db and IEEE Std 802.3ck descriptions and numbers.

**Response:** Accept.
Approved Responses

IEEE P802.3cx D2.3 ITSA Task Force 3rd Working Group recirculation ballot comments

Cl 3 SC 3.13.1.14 P23 L53 # 477
Tse, Richard Microchip Technology

Comment Type T Comment Status A

The limiting condition (based on DDMP capabilities of the PCS and DTE XS) on the configuration of the aTimeSyncSelectionDdmp management object needs to be added.

SuggestedRemedy
Change:

"The registers 3.1813.13 and 5.1813.13 are expected to be set to the same value.;"

to

"The registers 3.1813.13 and 5.1813.13 are expected to be set to the same value and can only be set to a value that corresponds to the capabilities of the PCS and DTE XS instances (see 45.2.3.69a.1 and 45.2.5.31.1).;"

Response Response Status C
ACCEPT IN PRINCIPLE.

Cl 30 SC 30.13.1.13 P23 L22 # 476
Tse, Richard Microchip Technology

Comment Type T Comment Status A

The special condition (per 45.2.3.67.1) when all DDMP capability registers 3.1800.12, 3.1800.13, 5.1800.12, and/or 5.1800.13 are zeros has to be included in the description of the aTimeSyncCapabilityDdmp management object.

SuggestedRemedy
Change

"The value of "sfd" indicates that the registers 3.1800.13 and 5.1800.13 (see 45.2.3.67 and 45.2.5.28) are both set to 1;"

to

"The value of "sfd" indicates that the registers 3.1800.13 and 5.1800.13 (see 45.2.3.67 and 45.2.5.28) are both set to 1 or that all registers 3.1800.12, 3.1800.13, 5.1800.12, and 5.1800.13 are set to 0;"

Response Response Status C
ACCEPT.

Cl 30 SC 30.13.1.16 P25 L27 # 489
Tse, Richard Microchip Technology

Comment Type T Comment Status A

In the right-most column of Table 30-6, there should not be "X" for the new optional (i.e., non-mandatory for TimeSync) features.

SuggestedRemedy
Remove the "X" for all the management objects below aTimeSyncDelayNsRXmin

Response Response Status C
ACCEPT IN PRINCIPLE.

Add a new column to Table 30-6 "Support for Time Sync (optional)" and move X for all the management objects below aTimeSyncDelayNsRXmin to the new optional column.

Cl 45 SC 45.2 P26 L4 # 539
Grow, Robert RMG Consulting

Comment Type E Comment Status A

Base text error.

SuggestedRemedy
P802.3/D3.2 has title "MDIO Interface registers".

Response Response Status C
ACCEPT.
Comment Type: E  Comment Status: A  bucket

This draft uses "path data delay" 550 times and "data path delay" 23 times

SuggestedRemedy

I wonder if some or all of the few "data path delay" should be otherwise.

Response  Response Status: C  bucket

ACCEPT IN PRINCIPLE.

Change all instances of "data path delay" to "path data delay", including names of primitives, i.e., "PCS Dynamic Data Path Delay" becomes "PCS Dynamic Path Data Delay" and "PDDPD" becomes "PDPDD". globally.

Comment Type: T  Comment Status: A  bucket

"data path delay" should be "path data delay"

Total of 13 instances of "data path delay" in the draft. All should be changed except (perhaps) the two instances related to the name of the PDDPD primitive.

SuggestedRemedy

Change all instances (except possibly the two related to the name of the PDDPD primitive) from:
"data path delay"
to
"path data delay"

Response  Response Status: C  bucket

ACCEPT IN PRINCIPLE.

See comment #554
Approved Responses

IEEE P802.3cx D2.3 ITSA Task Force 3rd Working Group recirculation ballot comments

Cl 45 SC 45.2.1.177 P28 L38 # 543
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "register 1.1"
Response Response Status C ACCEPT.

Cl 45 SC 45.2.1.177 P28 L42 # 544
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "register 1.1805..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.1.177 P28 L43 # 545
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "register 1.1811..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.1.177 P28 L51 # 546
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "(register 1.1807..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.1.177 P28 L52 # 547
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "register 1.1812..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.2.21 P30 L49 # 495
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "register 2.1..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.2.21 P30 L52 # 496
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "registers 2.1891..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.2.21 P31 L1 # 497
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "register 2.1891..."
Response Response Status C ACCEPT.

Cl 45 SC 45.2.2.21 P31 L1 # 498
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "(register 2.1809..."
Response Response Status C ACCEPT.
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<td>The data delay measurement point affects the calculation of both the transmit and receive path data delays. The statements in 45.2.3.67.1 and 45.2.3.67.2 only mention the PCS transmit path data delay. The statements in 45.2.5.28.1 and 45.2.5.28.2 only mention the DTE XS transmit path data delay.</td>
<td>Change the four instances of &quot;PCS transmit path data delay&quot; in 45.2.3.67.1 and 45.2.3.67.2 to &quot;PCS path data delays&quot;. Change the four instances of &quot;DTE XS transmit path data delay&quot; in 45.2.5.28.1 and 45.2.5.28.2 to &quot;DTE XS path data delays&quot;.</td>
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<td>Register bit 3.1800.12 should be referenced here instead of 3.1800.13.</td>
<td>Change &quot;When read as a zero, bit 3.1800.13 indicates that the PCS...&quot; to &quot;When read as a zero, bit 3.1800.12 indicates that the PCS ...&quot;</td>
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Tse, Richard
Microchip Technology

Dawe, Piers
Nvidia

Comment 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

PAGE: 6

4/18/2022 3:24:11 PM

SORT ORDER: Clause, Subclause, page, line
Comment Type: T  Comment Status: A
This bit reports two abilities together: reporting PDDPD, and doing it over xMII using NUM_BIT_CHANGE signals.

Suggested Remedy:
Should there be separate registers for each ability?

Response  Response Status: C
ACCEPT IN PRINCIPLE.

Separate registers for PDDPD and NUM_BIT_CHANGE are not really valuable, since they must both exist for the function to work. Also, the PDDPD exists at the RS layer.

To address this comment, add a reference to the PDDPD function in the NUM_BIT_CHANGE ability register’s description as shown:

"When read as a one, bit 3.1800.10 indicates that the PCS supports the calculation of the TX_NUM_BIT_CHANGE and RX_NUM_BIT_CHANGE values, passed from the PCS across the xMII to the gRS.

When read as a zero, bit 3.1800.10 indicates that the PCS does not support the calculation of the TX_NUM_BIT_CHANGE and RX_NUM_BIT_CHANGE values."

Comment Type: E  Comment Status: A
Incorrect capitalization of "Register"

Suggested Remedy:
"register 3.1809…"

Response  Response Status: C
ACCEPT.

Comment Type: E  Comment Status: A
Incorrect capitalization of "Register"

Suggested Remedy:
"register 3.1803…"

Response  Response Status: C
ACCEPT.

Comment Type: E  Comment Status: A
Incorrect capitalization of "Register"

Suggested Remedy:
"register 3.1801…"

Response  Response Status: C
ACCEPT.

Comment Type: E  Comment Status: A
Incorrect capitalization of "Register"

Suggested Remedy:
"register 3.1810…"

Response  Response Status: C
ACCEPT.

Comment Type: E  Comment Status: A
Incorrect capitalization of "Register"

Suggested Remedy:
"register 3.1801…"

Response  Response Status: C
ACCEPT.
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Comment 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
Approved Responses

IEEE P802.3cx D2.3 ITSA Task Force 3rd Working Group recirculation ballot comments

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| SuggestedRemedy | "(register 4.1811..."
| Response | C |
| ACCEPT. |
| 45 | 45.2.4.30 | E | A | 41 | 7 | 521 |
| Grow, Robert | RMG Consulting | Incorrect capitalization of "Register" | bucket | |
| SuggestedRemedy | "registers 4.1807..."
| Response | C |
| ACCEPT. |
| 45 | 45.2.4.30 | E | A | 41 | 9 | 522 |
| Grow, Robert | RMG Consulting | Incorrect capitalization of "Register" | bucket | |
| SuggestedRemedy | "(register 4.1812..."
| Response | C |
| ACCEPT. |
| 45 | 45.2.5.28.2 | T | A | 43 | 36 | 479 |
| Tse, Richard | Microchip Technology | Register bit 5.1800.12 should be referenced here instead of 5.1800.13. |
| SuggestedRemedy | "When read as a zero, bit 5.1800.13 indicates that the DTE XS..."
| Response | C |
| ACCEPT. |
| 45 | 45.2.5.28.3 | E | A | 43 | 46 | 481 |
| Tse, Richard | Microchip Technology | "PCS" should be replaced by "DTE XS" in 45.2.5.28.3, 45.2.5.28.4, and 45.2.5.31. |
| SuggestedRemedy | Replace six instances of "PCS" with "DTE XS" in 45.2.5.28.3, 45.2.5.28.4, and 45.2.5.31. |
| Response | C |
| ACCEPT. |
| 45 | 45.2.5.29 | E | A | 44 | 37 | 523 |
| Grow, Robert | RMG Consulting | Incorrect capitalization of "Register" |
| SuggestedRemedy | "register 5.0..."
| Response | C |
| ACCEPT. |

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
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Approved Responses

IEEE P802.3cx D2.3 ITSA Task Force 3rd Working Group recirculation ballot comments

Cl 45 SC 45.2.6.16 P49 L48 # 547
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "(registers 6.1807..."
Response Response Status C
ACCEPT.

Cl 45 SC 45.2.6.16 P49 L50 # 545
Grow, Robert RMG Consulting
Comment Type E Comment Status A bucket
Incorrect capitalization of "Register"
SuggestedRemedy "(registers 6.1812..."
Response Response Status C
ACCEPT.

Cl 90 SC 90.5.3 P60 L38 # 484
Tse, Richard Microchip Technology
Comment Type E Comment Status A
"number of bits" needs further clarification
SuggestedRemedy "gRS to the PHY" should be "PHY to the gRS"
Response Response Status C
ACCEPT.

Cl 90 SC 90.5.4 P60 L38 # 484
Tse, Richard Microchip Technology
Comment Type T Comment Status A
"number of bits" needs further clarification
SuggestedRemedy "gRS to the PHY" should be "PHY to the gRS"
Response Response Status C
ACCEPT.

Cl 90 SC 90.7 P63 L4 # 557
Dawe, Piers Nvidia
Comment Type TR Comment Status R
This proposes to change the base text to: "The TimeSync capability requires measurement of data delay in the transmit and receive paths, as shown in Figure 90–5. The data delay measurement point shall be either the beginning of the start of frame delimiter (SFD) or the beginning of the first symbol after the SFD (see 45.2.3.69a)”. The figure is unchanged from the base standard, and shows an arrow between two points, the bottom of the gRS and the boundary between MDI and medium. This is confusing.
SuggestedRemedy If you must describe a marker in a signal that moves as a "point", add text to distinguish this from the real points in static space, which are also relevant to this clause. It would be better to change "data delay measurement point" to "data delay reference marker" or "data delay measurement point" or "data delay reference", throughout.
Response Response Status C
REJECT.

The name "data delay measurement point" is associated with the name "message timestamp point", which is used by IEEE 1588 and IEEE 802.1AS to identify the same thing. No changes to the draft needed.
This proposes to change the base text to: "The data delay measurement point shall be either the beginning of the start of frame delimiter (SFD) or the beginning of the first symbol after the SFD (see 45.2.3.67 and 45.2.3.69a)."

I checked clauses 3 and 4: the SFD field is 1 octet long (Clause 3) or 8 MAC bits long (Clause 4), and the SFD field and the Destination Address field which follows it are "fields". I checked a couple of RS clauses - they don't have "symbol"s. But see the definitions 1.4.545 symbol, 1.4.546 symbol period, 1.4.547 symbol rate (SR), and 1.4.548 symbol time (ST). So a symbol is a unit interval on the line, which doesn't relate simply to MAC octets at the gRS because of line coding overhead, multilevel coding, FEC, and alignment markers. Also, there are 10-bit symbols in Reed-Solomon FEC clauses.

I see that 1.5 says "SFD start-of-frame delimiter" and "3.2.2 Start Frame Delimiter (SFD) field The SFD field is...".

**SuggestedRemedy**

I believe what is meant is "octet" as used in Clause 3 and 90A.3 or "8 Change this to:

"the beginning of the Start Frame Delimiter field (SFD) or the beginning of the first field after the SFD (see Figure 3-1) An implementation may be capable of one or both methods; this may be advertised and configured with MDIO registers (the beginning of the start of frame delimiter (SFD) or the beginning of the first symbol after the SFD (see 45.2.3.67 and 45.2.3.69a)."

Replace "symbol" with "field" throughout the document. It seems it is used as "the first symbol after the SFD" so we don't need to discuss the duration of this field, only when it starts.

**Response**

The timestamping of the data delay measurement point is supposed to take place at the MDI so "symbol" is correct, per the definitions given by the comment.

The capturing of the timestamp at the xMII is just an implementation model used by 802.3 to enable estimation of the timestamp at the MDI.

No changes to the draft needed.
"For a PHY that includes an FEC and/or multiple PCS lane distribution functions": hard to parse, could mean multiple PCSs or multiple functions. We don't have PCS lane distribution without multiple PCS lanes. How many functions: just one, or one per Tx, Rx?

**Suggested Remedy**

Change to

For a PHY that includes an FEC and/or a PCS lane distribution function
Similarly, change
For PHYs with both FEC and multiple PCS lane distribution, the start of the FEC block is guaranteed to coincide with the start of a multiple PCS lane distribution sequence. to
For PHYs with both FEC and PCS lane distribution, the start of the FEC block is guaranteed to coincide with the start of a PCS lane distribution sequence.

**Response**

ACCEPT.
<table>
<thead>
<tr>
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<th>Comment</th>
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<th>Response Status</th>
<th>SuggestedRemedy</th>
<th>Response</th>
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<tr>
<td>90A</td>
<td>90A.2</td>
<td>68</td>
<td>31</td>
<td>E</td>
<td>A</td>
<td>C</td>
<td>&quot;and multi-physical coding sublayer (PCS) lane distribution/merging&quot;: we have removed most of the multi-physical coding sublayer (PCS) lane distribution/merging, and we aren't discussing multiple PCSs in this sentence, and we don't have lane distribution /merging without multiple lanes. Capitals.</td>
<td>Simplify to &quot;and Physical Coding Sublayer (PCS) lane distribution/merging&quot;, or elaborate to &quot;and distribution /merging of multiple Physical Coding Sublayer (PCS) lane&quot;</td>
</tr>
<tr>
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<td>90A.3</td>
<td>69</td>
<td>8</td>
<td>E</td>
<td>A</td>
<td>C</td>
<td>ACCEPT IN PRINCIPLE.</td>
<td>Change to read &quot;and Physical Coding Sublayer (PCS) lane distribution/merging&quot;</td>
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<td>69</td>
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<td>E</td>
<td>A</td>
<td>C</td>
<td>Implementations that support sub-nanosecond accuracy path delay measurement capabilities</td>
<td>Change &quot;only suffer a timestamp accuracy impairment of one octet time&quot; to &quot;suffer a timestamp accuracy impairment of only one octet time&quot;</td>
</tr>
</tbody>
</table>

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
### Comment: "intrinsic delay variation"

- **Comment Type:** TR
- **Comment Status:** R
- **Suggested Remedy:** Explain or delete. It appears that anything "intrinsic" is a delay variation or a varying delay, so delete may work.

#### Response:

Dawe, Piers  
Nvidia

**Response Status:** C

The adjective "intrinsic" is used in the meaning of "belonging naturally". The use of this adjective emphasizes that certain types of delays are intrinsic to a specific function and it is not used to describe any implementation-dependent delays.

### Comment: PDDPD parameter

- **Comment Type:** T
- **Comment Status:** A

#### Suggested Remedy:

Change to "the PDDPD parameter, which is conveyed by TX_NUM_BIT_CHANGE".

#### Response:

Dawe, Piers  
Nvidia

**Response Status:** C

See comment #564

### Comment: "Skew"

- **Comment Type:** E
- **Comment Status:** A

#### Suggested Remedy:

"Skew" in the heading of 90A.6 should not have a capitalized "S"

#### Response:

Tse, Richard  
Microchip Technology

**Response Status:** C

See comment #487
<table>
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**Comment 551**

**Comment Type:** E

**Comment Status:** A

**Preferred font size is 9 points (can be 8 or 10 points if needed).**

This is 6 and 7 point, Calibri. There is plenty of space.

**Suggested Remedy**

Change to 9 point Arial (in black)

**Response**

Response Status: C

**ACCEPT.**

**Comment 552**

**Comment Type:** E

**Comment Status:** A

Not house style

**Suggested Remedy**

Figures 90A-3 to 5 would be better using black text, Arial. "PHY Delay" should be "PHY delay", or possibly "PHY path data delay". If there is room to change dly to delay, that would be good too.

**Response**

Response Status: C

**ACCEPT.**

**Comment 488**

**Comment Type:** E

**Comment Status:** A

Subclause 90A.1 doesn't appear in the table of contents

**Suggested Remedy**

Update table of contents so subclause 90A.1 is included

**Response**

Response Status: C

**ACCEPT.**