Cl | FM | SC | P | L | #
---|-----|----|---|---|---
435 | Cl | FM | SC | P | L
Hajduczenia, Marek | Charter Communications

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

Update FM to revision 5.0 from https://www.ieee802.org/3/tools/framemaker/index.html

**Suggested Remedy**

Per change

**Response**

**Response Status:** C

ACCEPT.

---

Cl | 30 | SC | 30.13.1 | P | L | #
---|----|----|-----|---|---|---
465 | Cl | 30 | SC | 30.13.1 | P | L
Tse, Richard | Microchip Technology

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

Subclause 30.13.1 should be updated so all the TimeSync features from clause 45 are represented by a corresponding management object. There should be management objects that show all the capabilities, the min/max Tx/Rx delays (in nanoseconds and in sub-nanoseconds), whether the multiple PCS lane delay is handled per 802.3cx, whether dynamic delay changes are handled per 802.3cx, and the selected DDMP.

Subclause 90.6 should also be updated for this.

**Suggested Remedy**

The draft text from the team that was assembled to resolve this issue, which was identified while trying to resolve multiple comments on this subclause in D2.1, should be used.

**Response**

**Response Status:** C

ACCEPT IN PRINCIPLE.


---

Cl | 45 | SC | 45.2.1.175 | P | L | #
---|----|----|----|---|---|---
466 | Cl | 45 | SC | 45.2.1.175 | P | L
Tse, Richard | Microchip Technology

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

D2.1 received a number of comments (#355, #361, #367, #377, #383, #389, #358, #364, #366, #374, #376, #380, #382, #386, #388, #392, #394) asking to align the names of Clause 45 registers to use "in ns" and "in sub-ns" to better differentiate the register resolution. The same naming change needs to be propagated into more places in Clause 45, specifically into capability registers in the following tables and associated text

o Table 45-139 for PMA/PMD
o Table 45-230 for WIS
o Table 45-293 for PCS
o Table 45-336 for PHY XS
o Table 45-381 for DTE XS
o Table 45-375 for TC

**Suggested Remedy**

Implement the following changes in Clause 45, using find&replace:
- change "TimeSync fine resolution transmit path data delay ability" to "TimeSync transmit path data delay ability, in sub-ns" (10x)
- change "TimeSync fine resolution receive path data delay ability" to "TimeSync receive path data delay ability, in sub-ns" (10x)
- change "the sub-ns-resolution fine resolution XXX [transmit|receive] path data delay registers" to "the XXX [transmit|receive] path data delay registers, in sub-ns resolution" (4x)
- change "the fine resolution XXX [transmit|receive] path data delay registers" to "the XXX [transmit|receive] path data delay registers, in sub-ns resolution" (10x)
- change "does not support the XXX [transmit|receive] path data delay registers" to "does not support the XXX [transmit|receive] path data delay registers, in ns resolution" (12x)

where XXX covers PMA/PMD, WIS, PCS, PHY XS, DTE XS, and TS

**Response**

**Response Status:** C

ACCEPT.

---

Cl | 45 | SC | 45.2.1.175 | P | L | #
---|----|----|----|---|---|---
436 | Cl | 45 | SC | 45.2.1.175 | P | L
Hajduczenia, Marek | Charter Communications

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

"sub-ns-resolution" instances are still present

**Suggested Remedy**

Change all instances of "sub-ns-resolution" to "sub-ns resolution"
Comment Type | E | Comment Status | A
---|---|---|---
Comment
Please provide cross-references
Suggested Remedy
As is usual for MDIO registers - provide cross-reference(s) to the appropriate place(s) in Clause 90. Similarly for the other similar MDIO registers.
Response | Response Status | C
---|---|---
ACCEPT IN PRINCIPLE.

Add "(see 90.7)" to each and every register description being added into Clause 45.

Comment Type | T | Comment Status | A
---|---|---|---
Table 45-293 is a table of capabilities, but register 3.1800.11 Multilane is labelled as "support". It should be labelled as an "ability", as the other entries in this table are.
Suggested Remedy
Change name of register from "Multilane Support" to "Multilane ability" in Table 45-293, 45.2.3.67.3, 90A.2, and 90A.3.
Response | Response Status | C
---|---|---
ACCEPT.

Comment Type | T | Comment Status | A
---|---|---|---
Table 45-293 is a table of capabilities, but register 3.1800.10 NUM_UNIT_CHANGE is labelled as "support". It should be labelled as an "ability", as the other entries in this table are.
Suggested Remedy
Change name of register from "NUM_UNIT_CHANGE Support" to "NUM_UNIT_CHANGE ability" in Table 45-293, 45.2.3.67.4, 90A.2, and 90A.3.
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  

**Type:** IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments  
**Page:** 3 of 11  
**Date:** 3/9/2022 9:12:02 AM  
**Sort Order:** Clause, Subclause, page, line
Cl 90 SC 90.4.1.1 P50 L 46 # 442
Ran, Adee Cisco
Comment Type E Comment Status A

There seems to be no change in the text of either NOTE 1 or NOTE 2.

SuggestedRemedy
Remove both notes and the editorial instruction from the amendment.

Response
Response Status C
ACCEPT.

Cl 90 SC 90.4.1.2 P51 L 4
Ran, Adee Cisco
Comment Type T Comment Status A

"The TimeSync Client can use the indication of the event corresponding to the egress and ingress of packets provided by the TSSI, combined with knowledge of the time synchronization protocol frames, to capture the egress and ingress time of packets relevant to the protocol at the xMII. Which frames are of interest to any particular protocol is beyond the scope of this standard".

The words "packets" and "frames" are used apparently interchangeably in these two sentences. Other than here, clause 90 only refers to packets (15 times), and the word "frame" appears only in "start frame delimiter".

A "packet" is defined in 1.4.447 as "consists of a MAC frame (...) preceded by the Preamble and the SFD (...)".

To avoid confusion, it is suggested to use "packet" instead of "frame" throughout this amendment except in "start frame delimiter".

SuggestedRemedy
Change "frame" to "packet" twice in the quoted sentence.

Response
Response Status C
ACCEPT.

The words "ingress" and "egress" are used in this clause with specific meanings that are different from their dictionary meaning.

Ingress and Egress times are associated with specific events, but using the bare terms "ingress time" and "egress time" in the text does not make it clear.

To clarify the intent for readers who did not participate in the discussions of this amendment, some rephrasing would be beneficial.

SuggestedRemedy
Use the term "event" for ingress and egress and have the times associated with events.

As an example, change the first sentence from

"When the TimeSync Client captures a relevant egress time, it can use that egress time at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time at the MDI"

to

"When the TimeSync Client captures a relevant packet egress event, it can use the time of that event at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time at the MDI".

Make corresponding changes in the sentences about ingress, starting on line 16.

Response
Response Status C
ACCEPT IN PRINCIPLE.

Change the first sentence from

"When the TimeSync Client captures a relevant egress time, it can use that egress time at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time at the MDI"

to

"When the TimeSync Client detects a relevant packet egress event, it can use the time of that event at the xMII, along with the TimeSync PHY transmit path data delay, if available, and the PCS dynamic transmit path data delay, if supplied, to calculate the egress time of that packet at the MDI".

Make corresponding changes in the sentences about ingress, starting on line 16.
Comment Type: E  
Comment Status: A  

The sentence starting with "When the TimeSync Client captures a relevant ingress time" is a change of topic - previous sentences were about packet egress. The two topics should be on separate paragraphs for clarity.

Suggested Remedy

Add a paragraph break before the quoted sentence.

Response  
Response Status: C  
ACCEPT.

---

Comment Type: T  
Comment Status: A  

The term "data delay measurement point (DDMP)" appears here before it is defined. From its usage here it seems that a DDMP is an event that can be detected, and this meaning is consistent with its usage at least in most places. But in 90.4.3.1.1 it is defined as a parameter which has one of two possible values - not as an event that has a time associated with it.

It is suggested to have a definition of this term in the TSSI subclause, 90.4.2. The suggested remedy is a possible definition which hopefully captures the intent of using this term.

Alternatively, replace instances of "a valid data delay measurement point (DDMP) was detected" by "a valid time synchronization protocol frame was detected" and ensure that other usages of the term DDMP have a consistent meaning.

Suggested Remedy

Insert the following paragraph after the first paragraph of 90.4.2:

"The service interface primitives are defined with respect to a data delay measurement point (DDMP) event, which is the appearance of either the SFD or the first symbol of a time synchronization protocol frame. The choice of whether a DDMP is the SFD or the first symbol is implementation specific."

Rephrase other text as necessary.

Response  
Response Status: C  
ACCEPT IN PRINCIPLE.

The DDMP is not an event that is detected. DDMP is simply a location in a packet that is detected.

Insert the following paragraph after the first paragraph of 90.4.2: "The path data delay of a packet is measured using a specific point, the data delay measurement point (DDMP), in the packet. The DDMP is either the beginning of the SFD or the beginning of the first symbol after the SFD in the packet, as selected by registers 3.1813.13 and 5.1813.13."
Approved Responses

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

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Ran, Adee  
Cisco  

Comment Type T  
Comment Status A  

The semantic of this primitive is being changed to TS_TX.indication(MM, DDMP, PDDPD) but the order of the parameters in the subsequent paragraphs is DDMP, MM, and then PDDPD.

The order in the text makes more sense because conventionally (in most programming languages) mandatory arguments appear first. Also, the existing interface has "SFD" as a mandatory first parameter.

Also applies to the TS_RX.indication primitive in 90.4.3.2.1.

Suggested Remedy  
Change the semantics line to TS_TX.indication(DDMP, MM, PDDPD).

Change TS_RX.indication accordingly.

Response  
Response Status C  
ACCEPT.

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Ran, Adee  
Cisco  

Comment Type E  
Comment Status A  

"a value ranging from -32768 to +32767 in two's complement format"  
The primitives are defined in an abstract manner and there is no need to specify a format (unlike register bit assignments or the TX_NUM_UNIT_CHANGE interface). Compare to parameters with enumerated values for which the "formats" are never specified.

Also in 90.4.3.2.1.

Suggested Remedy  
Delete "in two's complement format" in both places.

Response  
Response Status C  
ACCEPT.

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Ran, Adee  
Cisco  

Comment Type TR  
Comment Status A  

"number of bits of dynamic transmit path data delay"  
"number of bits of dynamic transmit path data delay the beginning of the SFD, or the beginning of the first symbol after the SFD (see 45.2.3.69a), of the packet that generated the primitive, experiences in the PCS within the PHY"  
This is a very long and complex sentence.

Suggested Remedy  
Change the quoted sentence to "indicating the number of bits of dynamic transmit path data delay that are experienced by the beginning of the packet that generated the primitive (either the SFD or the first symbol after the SFD, see 45.2.3.69a), in the PCS within the PHY".

Response  
Response Status C  
ACCEPT.

---

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Ran, Adee  
Cisco  

Comment Type G  
Comment Status A  

"number of bits of dynamic transmit path data delay"  
"number of bits of dynamic transmit path data delay in bit times (BT)"  
Delay has units of time, so this should be "bit times" (bit time or BT has a definition 1.4.160).

Also in the descriptions of TX_NUM_UNIT_CHANGE (90.5.3) and RX_NUM_UNIT_CHANGE (90.5.4).

Suggested Remedy  
Change "the number of bits of dynamic transmit path data delay" to "the dynamic transmit path data delay in bit times (BT)".

Response  
Response Status C  
ACCEPT.

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Ran, Adee  
Cisco  

Comment Type TR  
Comment Status A  

"number of dynamic transmit path data delay"  
"number of bit times that will be dynamically inserted or removed in the transmit path"  
For the receive path, make a similar change to the text to read "the number of xMII bit times that were dynamically inserted or removed in the receive path"
Comment Type: E  Comment Status: A

"NUM_UNIT_CHANGE" is a puzzling name that gives no clue as to what this does and doesn't match the other xMII signal names such as TXD<63:0>, TXC<7:0>, RXD<63:0>, RXC<7:0>, RX_CLK and TX_CLK. The draft says that TX_NUM_UNIT_CHANGE<15:0> conveys the value of PDDPD over the xMII to the RS, which sends it upward as TS_TX.indication. In the context of MDIO registers: nearly all the registers in Table 45-293, TimeSync PCS capability, mention "data delay", usually in the bit name - except this one.

Suggested Remedy

- Change the names to ones that fit with the other xMII signals, for example:
  - Change TX_NUM_UNIT_CHANGE to TX_DDEL;
  - Change RX_NUM_UNIT_CHANGE to RX_DDEL;
  - Change NUM_UNIT_CHANGE to DDEL.

Response

ACCEPT IN PRINCIPLE.

The names were changed.

Comment Type: E  Comment Status: A

"provides" should be "provide"

Suggested Remedy

Change

"These signals provides the dynamic data path delay information to be forwarded to the TimeSync Client for enabling the calculation of highly accurate data path delay values."

to

"These signals provide the dynamic data path delay information to be forwarded to the TimeSync Client for enabling the calculation of highly accurate data path delay values."

Response

ACCEPT.
Comment Type: E  
Comment Status: R  

Points are usually in space, instants are in time. So "data delay measurement point" sounds like the place where the data delay is measured (e.g. the MDI or xMII). The thing that is timed as it passes the MDI should have a different name. data delay measurement event? data delay measurement marker? data delay measurement instant (but that could be taken as the time when the thing passes the point)? 

Also, I wondered if the phrase is being used with two meanings, the event and its time.

Suggested Remedy
If feasible, change "data delay measurement point" to "data delay measurement marker" and "data delay measurement instant" as appropriate.

Response: REJECT.

The term has been heavily debated within the TF and DDMP was consented at the time, with no clear alternatives to consider at this time. In the context, "Point" is the correct term because it refers to a location in the packet.

No changes to the draft needed.

Comment Type: T  
Comment Status: A  

"The data delay measurement point shall be either the beginning of the start of frame delimiter (SFD) or the first symbol after the SFD (see 45.2.3.69a)" 

It is not stated whether this choice is constant or can change dynamically. I would assume it is constant once the PCS is configured and enabled, but without stating it, implementations will need to handle dynamic changes, which may never occur.

If the task force thinks that the choice can be made static without loss of functionality, it would be good to specify it this way, here and in 45.2.3.69a.1.

Suggested Remedy
Add "The choice of the data delay measurement point is implementation dependent, and does not change when the PCS is not at reset or power down", or other language to that effect.

Additionally or alternatively, make a similar change in 45.2.3.69a.1.

Response: ACCEPT IN PRINCIPLE.

Add the following statement: "The choice of the data delay measurement point is implementation-dependent, and does not change until PHY is reset or powered down."

Comment Type: ER  
Comment Status: A  

According to the style manual (18.1) "Within each subclause, notes should be numbered sequentially". The first newly inserted NOTE is not numbered.

Suggested Remedy
Change "NOTE" to "NOTE 1" and renumber all subsequent notes in 90.7 accordingly.

Response: ACCEPT.
Using "Tx" as a shorthand for "transmit" is common in names of variables, signals, functions, etc. but not in the text. "Transmit" is used everywhere in this draft except for annex 90A (subject of another comment).

Similarly, "Rx" in the next paragraph, line 40 should be "receive".

Suggested Remedy
Change "Tx" to "transmit" and "Rx" to "receive".

ACCEPT.

Per some comments from D2.1, we should avoid potential controversy by avoiding use of the term "multi-" when referring to PHY lanes.

There is another instance of "multi-lane" on line 6 of page 60.

Suggested Remedy
Change
"Lane skew can be present on a multilane transmitter when PMA/PMD lanes have different static latencies such that their alignment markers appear..."
to
"Lane skew can be present on a transmitter with multiple lanes when the PMA/PMD lanes have different static latencies such that their alignment markers appear..."

Change
"If the transmit skew is not zero, then it is recommended that the transmit path delay for a multilane PHY be reported as if the data delay measurement point departed..."
to
"If the transmit skew is not zero, then it is recommended that the transmit path delay for a PHY with multiple lanes be reported as if the data delay measurement point departed..."

ACCEPT.

"it is recommended to, when possible, avoid Idle insertion/removal, alignment marker insertion/removal, and/or codeword marker insertion/removal in the sublayers below the xMII/AUI"

This sentence is difficult to parse. The usage of slashes in text should be avoided when possible.

Suggested Remedy
Change to "it is recommended to avoid insertion and removal of Idles, alignment markers, and codeword markers in the sublayers below the xMII/AUI, when possible".

ACCEPT.

Lan, Adee
Cisco

Ran, Adee
Cisco
Approved Responses

IEEE P802.3cx D2.2 ITSA Task Force 2nd Working Group recirculation ballot comments

Cl 90  SC 90.8  P62  L 1  # 457
Ran, Adee  Cisco

Comment Type E  Comment Status A

The PICS subclause appears without any editorial instruction.

As this is an amendment that modifies the existing Clause 90, there is no need to include the full PICS. Instead, only the changes to the PICS relative to the base document should be included, with editorial instructions, as done in other amendments that modify existing clauses.

SuggestedRemedy

Remove the unchanged subclauses 90.8.1, 90.8.2, and 90.8.4.

Add an editorial instruction in 90.8.3 to modify items TS_TX and TS_RX.

Response  Response Status C

ACCEPT.

Cl 90A  SC 90A.2  P65  L 21  # 455
Ran, Adee  Cisco

Comment Type TR  Comment Status A

"high accuracy" is a relative term. The "old" clause 90 could be considered accurate for some applications, and the "new" could be considered not accurate enough for other applications.

This amendment now uses the term "sub-nanosecond" in its description. It would be more accurate to use this term here instead of "high accuracy".

SuggestedRemedy

Change "high accuracy" to "sub-nanosecond" across annex 90A, with editorial license.

Response  Response Status W

ACCEPT.

Cl 90A  SC 90A.2  P65  L 28  # 459
Ran, Adee  Cisco

Comment Type TR  Comment Status A

"physical layer device (PHY)" - "Physical Layer" is always capitalized.

SuggestedRemedy

Change to "Physical Layer device (PHY)".

Response  Response Status W

ACCEPT.
<table>
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<td>Cisco</td>
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**Comment Type** ER  **Comment Status** A
Using "Tx" and "Rx" as shorthand for "transmit" and "receive" is common in names of variables, signals, functions, etc. but not in the text. The full words are used in most of this draft and in the base document.

Even though the shorthand is spelled out in the beginning of 90A.4, it is preferable to avoid it and use the full words in this annex as well.

**Suggested Remedy**
Change the terms "Tx" and "Rx" in the text to "transmit" and "receive", respectively, across annex 90A. Retain these terms where they are used as part of variable or signal names.

Delete the parentheses on lines 5-6.

**Response**  **Response Status** W
ACCEPT.

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

The usage of slashes in text should be avoided when possible.

**Suggested Remedy**
Change "T1 + PDDPD*(nanoseconds/unit)" to "T1 + PDDPD xMII bit time".

Implement here and in item vi and the two instances in 90A.5.2.

**Response**  **Response Status** C
ACCEPT.

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**Comment Type** TR  **Comment Status** A
What does "*(nanoseconds/unit)" mean?

It seems that PDDPD has units of nanoseconds. But this format is uncommon in such expressions.

Also in item vi and twice in 90A.5.2.

**Suggested Remedy**
Change "T1 + PDDPD*(nanoseconds/unit)" to "T1 + PDDPD ns".

Alternatively, define t_PDDPD as a value in ns corresponding to PDDPD and use it in the expressions instead.

Implement here and in item vi and the two instances in 90A.5.2.

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

Change "T1 + PDDPD*(nanoseconds/unit)" to "T1 + PDDPD xMII bit time".

Implement here and in item vi and the two instances in 90A.5.2.