

## Comments received

## IEEE P802.3bf D3.1 comments

CI 00 SC 0 P 0 L 0 # 10  
Thompson, Geoffrey Independent

Comment Type TR Comment Status D

I am going to have to add my weight to Mr Frazier's unsatisfied comment #35

Your response and the lack of any specified tolerance leads one to inevitable conclusion there there is no accuracy requirement whatsoever for this reported measurement. That being the case, there is no way for a developer manufacturer of higher layer equipment to put a conformance burden on their supplier that lies within the standard. Further, there is no way for a design verification function within a suppliers operation to tell whether this function works as opposed to supplying a random number not at all associated with the event.

*SuggestedRemedy*

Put some numeric tolerance on this measurement so that functionality can be verified. If it requires that the vendor supply a fixed delay number to center the tolerance variance then that is acceptable.

Proposed Response Response Status W

PROPOSED REJECT.

This comment is a pile-on to comment #35 from D3.0.

We are only specifying the delays are reported in the units of ns. There are no implied requirements for the precision of the measurements of such delay values. This standard should not mandate measurement precision, methods used to perform delay measurement etc., since they are not within the scope of our PAR.

CI 01 SC 1.4 P 14 L 7 # 8  
Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status D Changes to 1.4

This is a pile on to comment 28 against draft 3.0. TSSI should be properly defined here. Also the reference to 802.3-2008 is incorrect.

*SuggestedRemedy*

Change to:  
Time Synchronization Service Interface (TSSI). The interface between the TimeSync client and the generic Reconciliation Sublayer to provide SFD indication. (See IEEE 802.3, Clause 90.)

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Modify definition in 1.4 to read (following the style used in IEEE Std 802.3ba-2010)

1.4.XXX TSSI: Time Synchronization Service Interface between the generic Reconciliation Sublayer and a TimeSync client (See IEEE Std 802.3, Clause 90.)

CI 01 SC 1.4 P 14 L 7 # 2  
Marris, Arthur Cadence Design Syst

Comment Type ER Comment Status D Changes to 1.4

Clause 90 is not in 802.3-2008

*SuggestedRemedy*

Change reference to be just to IEEE std 802.3 Clause 90.

Proposed Response Response Status W

PROPOSED ACCEPT.

See comment number #8 for modified text in 1.4.

CI 30 SC 30.13.1.1 P 20 L 23 # 3  
Marris, Arthur Cadence Design Syst

Comment Type E Comment Status D

Make 1.1800.1, 2.1800.1, 3.1800.1, 4.1800.1, 5.1800.1, and 6.1800.1 link to Clause 45

*SuggestedRemedy*

Add links (cross references) from the registers referenced in Clause 30 to Clause 45.

Proposed Response Response Status W

PROPOSED ACCEPT.

## Comments received

## IEEE P802.3bf D3.1 comments

CI 30 SC 30.13.1.3 P 20 L 46 # 7  
Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status D

This is a pile on to comment 29 against draft 3.0. The most significant thing that 802.3bf is doing from the PHY implementers point of view and the system implementers point of view is defining how to report the transmit and receive latency through the PHY. This definition must be clear and unambiguous.

*SuggestedRemedy*

See my other comment on this.

My view is that the value of the attribute is simply the sum of the delay through the PCS and the delay through the PMA/PMD. Any latency in the TSSI indication and extra delay between sublayers is irrelevant as all the 802.1AS system implementer cares about is the asymmetry between the transmit and receive latency.

Mentioning XAUI without including SFI and XFI confuses matters as XAUI is a legacy MAC/PHY interconnect. The easiest way to get around this confusion is to focus on PCS and PMA latency. XAUI is really just a PCS/PMA combination.

Proposed Response Response Status W

PROPOSED REJECT.

The consensus on the introduction of XAUI is long standing and it is believed there is no need to make any modifications to it.

The consensus on the interpretation of the Clause 30 attributes as being composed of the sum of instantiated MDIO registers together with any necessary additional delays related with the implementation of TS\_SFD\_Detect\_TX and TS\_SFD\_Detect\_RZ functions is also long standing, together with the language used to describe it.

CI 30 SC 30.13.1.3 P 20 L 46 # 1  
Marris, Arthur Cadence Design Syst

Comment Type ER Comment Status D

The following does not make sense:

If a Clause 45 MDIO Interface to PMA/PMD, WIS, PCS, PHY XS, DTE XS and/or TC is present, then the value stored in this attribute accounts for maximum transmit path data delay values, accounts for the sum of the values of the registers in the instantiated sublayers (for each MMD, in case of multiple instances):

*SuggestedRemedy*

Reword to:

If a Clause 45 MDIO Interface to PMA/PMD, WIS, PCS, PHY XS, DTE XS and/or TC is present, then the value stored in this attribute is the sum of the values of the following registers in the instantiated sublayer:

-- for PMA/PMD: registers 1.1801 and 1.1802,  
-- for WIS: registers 2.1801 and 2.1802,  
-- for PCS: registers 3.1801 and 3.1802,  
-- for PHY XS: registers 4.1801 and 4.1802,  
-- for DTE XS: registers 5.1801 and 5.1802,  
-- for TC: registers 6.1801 and 6.1802.

and make similar change in 30.13.1.4, 30.13.1.5 and 30.13.1.6

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change

"then the value stored in this attribute accounts for maximum transmit path data delay values, accounts for the sum of the values of the registers in the instantiated sublayers (for each MMD "

to

"then the value stored in this attribute represents the maximum transmit path data delay values, consisting of the sum of the values of the registers in the instantiated sublayers (for each MMD "

for attributes aTimeSyncDelayTXmax, aTimeSyncDelayTXmin, aTimeSyncDelayRXmax and aTimeSyncDelayRXmin

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**Cl 45**      **SC 45.2.3.40**      **P 27**      **L 17**      # **4**  
Marris, Arthur      Cadence Design Syst  
**Comment Type E**      **Comment Status D**  
Cahnge Table 45-115cc to Table 45-115c  
**SuggestedRemedy**  
Remove a 'c'  
**Proposed Response**      **Response Status W**  
PROPOSED ACCEPT.  
Even though the text is out of scope for this reiculation, this problem needs to be fix at this time (clarity of language).

**Cl 45**      **SC 45.2.4**      **P 113**      **L**      # **5**  
Marris, Arthur      Cadence Design Syst  
**Comment Type TR**      **Comment Status D**  
Title of Table 45-108 is incorrect  
**SuggestedRemedy**  
Change title to:  
  
Table 45-108--PHY XS registers  
**Proposed Response**      **Response Status W**  
PROPOSED ACCEPT.  
Even though the text is out of scope for this reiculation, this technical problem needs to be fix at this time.

**Cl 90**      **SC 90.1**      **P 35**      **L 6**      # **9**  
Thompson, Geoffrey      Independent  
**Comment Type E**      **Comment Status D**  
(Not classified DISAPPROVE because it is not new text)  
I would expect the following text to be easily proved false: "The TSSI can be used to support any protocol that requires knowledge of packet egress and ingress time."  
**SuggestedRemedy**  
I would suggest text that is not so presumptuous, perhaps: "The TSSI can be used to support protocols that require knowledge of packet egress and ingress time."  
**Proposed Response**      **Response Status W**  
PROPOSED REJECT.  
Text is out of scope for this recirculation.

**Cl 90**      **SC 90.5**      **P 38**      **L 14**      # **6**  
Marris, Arthur      Cadence Design Syst  
**Comment Type E**      **Comment Status D**  
grammar  
"used to interface MAC with any type of PHYs supporting"  
**SuggestedRemedy**  
change to:  
"used to interface a MAC with a PHY supporting"  
**Proposed Response**      **Response Status W**  
PROPOSED REJECT.  
Text is out of scope for this recirculation.