

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 00 SC P L # 104
Law, David

Comment Type T Comment Status A

Delete 'If any IEEE 802.3 Organizationally Specific TLV is supported, all IEEE 802.3 Organizationally Specific TLVs shall be supported.' as it doesn't make sense to require, for example, the PoE TLV and Link Aggregation TLV to be supported when the system doesn't even support these features.

SuggestedRemedy

See comment.

Response Response Status C

ACCEPT.

In addition the text '.. is an optional TLV that ..' that is already present in the draft for the MAC/PHY Configuration/Status TLV will be added to the three other TLVs.

CI 00 SC P L # 4
Diab, Wael

Comment Type TR Comment Status A

The current containment model used in 802.3bc and 802.3at are different (802.3az has not made edits to that section yet). I believe that we need to decide which model to use for 802.3bc and make sure its adequately clear so that other 802.3 projects using LLDP can follow suite.

SuggestedRemedy

Please use this comment as a placeholder for the discussion in the Maintenance TF.

Response Response Status W

ACCEPT IN PRINCIPLE.

Based on the following motion that was passed during the joint IEEE 802.3at, IEEE 802.3az and IEEE P802.3bc, no change is required to IEEE P802.3bc.

Move:

- Affirm the containment model contained in IEEE P802.3bc D2.0 is the model used for LLDP related projects moving forward
- Request that IEEE P802.3at and IEEE P802.3az make the changes to their drafts to match above
- Copy the text from IEEE 802.1AB-2005 Section 5.2, items N and M to IEEE 802.3bc

M: D. Law S: H. Frazier
Technical (75%)
All: Y:15 N:0 A:6
Motion Passes

CI 00 SC 0 P 1 L 28 # 17
Marris, Arthur Cadence

Comment Type E Comment Status A

spelling 'an' not 'a'

SuggestedRemedy

'an amendment'

Response Response Status C

ACCEPT.

CI 01 SC 1.3 P 11 L 13 # 100
Thompson, Geoff Nortel

Comment Type E Comment Status A

I would hope that RFC 3636 would have been superceded and obsoleted by 4836 (I haven't checked the contents to see if it is actually true)

SuggestedRemedy

Remove redundant RFC reference (3636)

Response Response Status C

ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 01 **SC 1.3** **P 11** **L 8** # **31**

Booth, Brad AMCC

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

Reference to 802.1AB is missing the year.

SuggestedRemedy

Change to be IEEE Std. 802.1AB(tm)-2005

Response **Response Status** **C**

ACCEPT IN PRINCIPLE.

In all cases where a year needs to be referenced, for example because a specific Clause or subclause is being called out, the revision to IEEE Std 802.1AB will be used with the designation IEEE Std 802.1AB-20XX as it is yet to be approved. This change will be made on:

Page 11, line 8
Page 13, line 23
Page 21, line 20
Page 21, line 28
Page 21, line 29
Page 21, line 31
Page 21, line 33
Page 21, line 34
Page 24, line 25

The instances on Page 22, line 46 has now been deleted in response to comment #92.

Cl 01 **SC 1.4** **P 11** **L 23** # **57**

Barrass, Hugh Cisco

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

To say that LLDP is intended to be run on all IEEE 802 LAN stations sounds megalomaniac.

SuggestedRemedy

Reword the sentence to suggest a capability rather than a world domination plan.

"A media-independent protocol intended to run on any IEEE 802 LAN station and..."

Response **Response Status** **C**

ACCEPT.

Cl 01 **SC 4** **P 11** **L 23** # **97**

Hays, Robert Intel Corporation

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

All implies that LLDP is required on every 802 device rather than optional for any 802 device.

SuggestedRemedy

Change "all" to "any".

Response **Response Status** **C**

ACCEPT.

Cl 1 **SC 1.3** **P 11** **L 8** # **6**

Zimmerman, George

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

IEEE Std. 802.1AB needs a date or other revision reference. Specific table and subclause numbering are listed in this document, which might change in a future revision - hence the need for a definitive date reference.

SuggestedRemedy

add a definitive date reference

Response **Response Status** **C**

ACCEPT.

See comment #31.

Cl 30 **SC 30.1** **P 12** **L 11** # **79**

Dawe, Piers Avago Technologies

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

behaviors

SuggestedRemedy

behaviours? twice

Response **Response Status** **C**

ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 30	SC 30.12	P 14	L 44	# 61
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Ganga, Ilango Intel

Comment Type E Comment Status A

In 30.12.1 and 30.12.1.1 Change "LLPD" to "LLDP"
Page 14, Line 12, change LLPD to LLDP in two instances
Page 17, 30.12.3 and 30.12.3.1 change LLPD to LLDP in two instances

SuggestedRemedy

As per comment

Response Response Status C
ACCEPT.

Cl 30	SC 30.12.1	P 14	L 44	# 44
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Claseman, George Micrel

Comment Type E Comment Status A

LLPD Configuration...

SuggestedRemedy

LLDP Configuration...

Response Response Status C
ACCEPT.

Cl 30	SC 30.12.1	P 14	L 45	# 56
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Barrass, Hugh Cisco

Comment Type E Comment Status A

Typo - LLPD instead of LLDP

SuggestedRemedy

Change LLPD to LLDP in the following instances:

p.13 l. 32
p.14 l. 45
p.14 l. 48
p.15 l. 12
p.15 l. 17
p.17 l. 44
p.17 l. 49
p.9 (contents page)

Response Response Status C
ACCEPT.

Cl 30	SC 30.12.1.1	P 14	L 49	# 45
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Claseman, George Micrel

Comment Type E Comment Status A

LLPD Configuration...

SuggestedRemedy

LLDP Configuration...

Response Response Status C
ACCEPT.

Cl 30	SC 30.12.1.1.1	P 14	L 53	# 81
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Dawe, Piers Avago Technologies

Comment Type E Comment Status A

widow

SuggestedRemedy

Also p17

Response Response Status C
ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 30 **SC 30.12.2** **P 15** **L 12** # **46**
 Claseman, George Micrel
Comment Type **E** *Comment Status* **A**
 LLDP Local...
SuggestedRemedy
 LLDP Local...
Response *Response Status* **C**
 ACCEPT.

Cl 30 **SC 30.12.2** **P 15** **L 12** # **103**
 Zimmerman, George
Comment Type **ER** *Comment Status* **A**
 "LLDP Local System Group" should be "LLDP Local System Group",
 and same on line 17
SuggestedRemedy
 fix typo substituting LLDP for LLPD
Response *Response Status* **C**
 ACCEPT.

Cl 30 **SC 30.12.2.1** **P 15** **L 17** # **47**
 Claseman, George Micrel
Comment Type **E** *Comment Status* **A**
 LLDP Local...
SuggestedRemedy
 LLDP Local...
Response *Response Status* **C**
 ACCEPT.

Cl 30 **SC 30.12.2.1.11** **P 17** **L 21** # **64**
 Lapak, Jeff UNH-IOL
Comment Type **E** *Comment Status* **A**
 Paragraph references wrong clause (78.5.1), should be 79.5.1
SuggestedRemedy
 Change reference to 79.5.1
Response *Response Status* **C**
 ACCEPT.

Cl 30 **SC 30.12.2.1.4** **P 16** **L 7** # **87**
 Dawe, Piers Avago Technologies
Comment Type **E** *Comment Status* **A**
 Here we have
 corresponds to {dot3MauType 29}
 and on page 18, while on page 23 we have
 corresponds to 'dot3MauType 29'

SuggestedRemedy
 Should the punctuation be the same?
Response *Response Status* **C**
 ACCEPT IN PRINCIPLE.
 Should always read {dot3MauType 29}.

Cl 30 **SC 30.12.3** **P 17** **L 44** # **48**
 Claseman, George Micrel
Comment Type **E** *Comment Status* **A**
 LLDP Remote...
SuggestedRemedy
 LLDP Remote...
Response *Response Status* **C**
 ACCEPT.

Cl 30 **SC 30.12.3.1** **P 17** **L 50** # **49**
 Claseman, George Micrel
Comment Type **E** *Comment Status* **A**
 LLDP Remote...
SuggestedRemedy
 LLDP Remote...
Response *Response Status* **C**
 ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 30 SC 30.12.3.1.11 P 19 L 54 # 65
Lapak, Jeff UNH-IOL

Comment Type E Comment Status A

Paragraph references wrong clause (78.5.1), should be 79.5.1

SuggestedRemedy

Change reference to 79.5.1

Response Response Status C

ACCEPT.

CI 30 SC 30.12.3.1.11 P 19 L 54 # 23
Grow, Robert Intel

Comment Type E Comment Status A

Reference problem, if hard text change to hot link, if already hot link fix definition.

SuggestedRemedy

Should be(see 79.5.1).;

Response Response Status C

ACCEPT.

CI 30 SC 30.12.3.1.8 P 19 L 19 # 50
Claseman, George Micrel

Comment Type E Comment Status A

aldpXdot3Rem...

SuggestedRemedy

aLldpXdot3Rem...

Response Response Status C

ACCEPT.

CI 30 SC 30.2.2.1 P 12 L 23 # 101
Thompson, Geoff Nortel

Comment Type TR Comment Status A

Regarding the statement: "Such containment is expected, but is outside the scope of this standard."

I do not agree with this statement. I believe that the containment for LLDP needs to be shown within this standard AND the LLDP MIBs need to have an established integral relationship with the established station management

SuggestedRemedy

Remove the referenced sentence

Add LLDP to the cotainment diagram

Make any other required changes to have the LLDP MIBs fully accessible via normal station management.

Response Response Status W

ACCEPT IN PRINCIPLE.

See comment #4.

CI 30 SC 30.2.3 P 13 L 3 # 102
Thompson, Geoff Nortel

Comment Type TR Comment Status R

Fig 30-6

Is show without relationship to any other management

SuggestedRemedy

Show relationship to station management containment diagram

Response Response Status W

REJECT.

See comment #4.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 30 SC 30.2.5 P 13 L 32 # 68
 Barnette, James Vitesse Semiconducto

Comment Type ER Comment Status A

Repetitive use of LLPD where it seems that LLDP is intended. This first occurrence is in the heading of Table 30-5. And it occurs in the table-of-contents in the front matter since it occurs in headers. The following additional occurrences were found:

Page 14, Line 3, still in Table 30-5

Page 14, Line 44, Subclause 30.12.1

Page 14, Line 49, Subclause 30.12.1.1

Page 15, Line 12, Subclause 30.12.2

Page 15, Line 18, Subclause 30.12.2.1

Page 17, Line 44, Subclause 30.12.3

Page 17, Line 49, Subcluse 30.12.3.1

SuggestedRemedy

Change these occurrences from LLPD to LLDP

Response Response Status W

ACCEPT.

CI 30 SC 30.2.5 P 13 L 45 # 80
 Dawe, Piers Avago Technologies

Comment Type E Comment Status A

uneven font (3 times)

SuggestedRemedy

Response Response Status C

ACCEPT.

CI 30 SC 30.2.5 P 14 L 32 # 69
 Barnette, James Vitesse Semiconducto

Comment Type ER Comment Status A

Incorrect spelling of attribute: aldpXdot3RemPowerPairControlable

Also occurs in the following places:

Page 19, Line 19, Subclause 30.12.3.1.8 (this instance leads to front matter table-of-contents having this attribute incorrect)

Page 27, Line 43, Subcluse 79.7.3, Table 78-7

SuggestedRemedy

Change from aldpXdot3RemPowerPairControlable to aLldpXdot3RemPowerPairControlable

Response Response Status W

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

SORT ORDER: Clause, Subclause, page, line

CI 79 SC 1 P 21 L 9 # 98
 Hays, Robert Intel Corporation

Comment Type E Comment Status R

The wording could be simpler.

SuggestedRemedy

Change "by the system incorporating that station" to "by the station".

Response Response Status C

REJECT.

You can have more than one station in a system, a router is an example of such a system. Since LLDP has system wide parameters this wording is correct.

CI 79 SC 1.379.6.2 P 25 L 39 # 8
 Zimmerman, George

Comment Type T Comment Status A

"should contain no more than one" - shouldn't this be "shall"? or do we need to define how it may contain more than one.

SuggestedRemedy

change should to shall

Response Response Status C

ACCEPT.

CI 79 SC 79 P L # 66
 Lapak, Jeff UNH-IOL

Comment Type E Comment Status A

All figures and tables use clause 78 in title, should be changes to 79.

SuggestedRemedy

Update all figures in this clause to have correct numbering, clause 79.

Response Response Status C

ACCEPT.

CI 79

SC 79

Page 6 of 19

03/04/2009 16:36:36

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 79 SC 79 P21 L 1 # 52
Claseman, George Micrel

Comment Type E Comment Status A

Tables and Figures use a "78" prefix.

SuggestedRemedy

Change to "79".

Response Response Status C

ACCEPT.

CI 79 SC 79 P21 L 2 # 35
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

"type, length, and values (TLVs)" implies one type, one length, and more than one value, which I think is not what is meant. You can't make a plural that way.

SuggestedRemedy

If you need a plural, "type, length, and value fields" may work sometimes (as in P802.1AB-REV) or "type, length, [and] value triples".
(Having TLVs as the plural of TLV is fine.)

Response Response Status C

ACCEPT IN PRINCIPLE.

Will change the Clause title to read 'IEEE 802.3 Organizationally Specific Link Layer Discovery Protocol (LLDP) type, length, and values (TLV) information elements' since subclause 1.4.358 defined type, length, value (TLV) as 'A short, variable length encoding of an information element ...'.

CI 79 SC 79 P21 L 25 # 2
Muller, Shimon

Comment Type TR Comment Status A

It would be very helpful to the readers of this standard if the frame format for an LLDP data unit were provided.

SuggestedRemedy

Add a figure that shows an 802.3 LLDP frame, with all the relevant fields included: MAC addresses, reserved EtherType, TLV fields, etc.

Response Response Status W

ACCEPT IN PRINCIPLE.

Will add an illustrative figure based on Figure D-1 'IEEE 802.3 LLDP frame format' of IEEE Std 802.1AB-2005.

CI 79 SC 79.1 P21 L 10 # 89
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

Don't know what this is trying to say:
the station's point of attachment to the IEEE 802 LAN required by those management entity or entities

SuggestedRemedy

revise

Response Response Status C

ACCEPT IN PRINCIPLE.

'.. the IEEE 802 LAN required by those management entity or entities.' should read '.. the IEEE 802 LAN required by the management entity or entities.'.

CI 79 SC 79.1 P21 L 22 # 30
Booth, Brad AMCC

Comment Type E Comment Status A

Capital C in clause is not necessary as there is not clause number.

Also occurs on line 41.

SuggestedRemedy

Change Clause to be clause.

Response Response Status C

ACCEPT.

CI 79 SC 79.1 P21 L 22 # 83
Dawe, Piers Avago Technologies

Comment Type E Comment Status A

This Clause

SuggestedRemedy

This clause

Response Response Status C

ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 79 SC 79.1 P 21 L 5 # 40
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

Need more information in the overview to relate this clause to the rest of 802.3. Please add text to answer these questions:

SuggestedRemedy

Please add text and diagram as necessary to address these questions:
Where does this clause fit into the layer diagram that is Figure 1 of most clauses?
Is this clause related to MAC Control? If not, what is it related to?
How are these TLVs send and received? Is it via the mechanism in Clause 57?
Which sublayer sends and receives these TLVs?
And probably more.

Response Response Status C

ACCEPT IN PRINCIPLE.

As stated in the introduction to Clause 79, the Link Layer Discovery Protocol (LLDP) is specified in IEEE Std 802.1AB. This standard covers the various items such as the architectural overview in Clause 6, the principles of operation in Clause 7 and a description of the protocol in Clause 10.

However in response to comment #2 a figure illustrating the LLDP frame format, and associated text, has been added.

CI 79 SC 79.1 P 21 L 8 # 82
Dawe, Piers Avago Technologies

Comment Type E Comment Status A

This isn't the first IEEE 802 in this document

SuggestedRemedy

Move the (R) to page 11 line 24

Response Response Status C

ACCEPT.

CI 79 SC 79.1 P 21 L 8 # 29
Booth, Brad AMCC

Comment Type E Comment Status A

Is this the first use of IEEE 802 in all of 802.3?

SuggestedRemedy

If not the first use, delete.

Response Response Status C

ACCEPT.

CI 79 SC 79.2 P 21 L 25 # 5
Kramer, Glen

Comment Type E Comment Status A

All tables and figures in Clause 79 are numbered 78-x.

SuggestedRemedy

Fix figure and table numbering to match the clause number.

Response Response Status C

ACCEPT.

CI 79 SC 79.2 P 21 L 27 # 84
Dawe, Piers Avago Technologies

Comment Type E Comment Status A

Here we have "Nearest device group MAC addresses" while at line 34 we have "nearest device group MAC address"

SuggestedRemedy

Be consistent: N or n

Response Response Status C

ACCEPT IN PRINCIPLE.

The use for this term in text in the current IEEE P802.1AB revision is 'nearest device group MAC address' so 'n' will be used.

CI 79 SC 79.2 P 21 L 27 # 32
Booth, Brad AMCC

Comment Type E Comment Status A

Explicit shall statements related to IEEE Std. 802.1AB. As a service to humanity, a footnote reference to how to get a copy of the specification would be nice.

SuggestedRemedy

Add a footnote with a reference to GetIEEE802 URL.

Response Response Status C

ACCEPT IN PRINCIPLE.

The 'standard' text 'IEEE publications are available from the Institute of Electrical and Electronics Engineers, 445 Hoes Lane, Piscataway, NJ 08855, USA (<http://standards.ieee.org>).' will be added as a footnote.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 79 **SC 79.2** **P 21** **L 28** # **11**
 Anslow, Peter Nortel Networks

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

"of" missing

SuggestedRemedy

change "in Table 7-1 IEEE Std 802.1AB" to "in Table 7-1 of IEEE Std 802.1AB"

Response **Response Status** **C**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 28** # **51**
 Claseman, George Micrel

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

Several instances are cited from "IEEE Std 802.1AB" without a version reference of this standard.

SuggestedRemedy

Add version information such as "IEEE Std 802.1AB-2009" when it becomes available.

Response **Response Status** **C**

ACCEPT IN PRINCIPLE.

Will use IEEE Std 802.1AB-20XX in reference to the current draft revision.

Cl 79 **SC 79.2** **P 21** **L 28** # **85**
 Dawe, Piers Avago Technologies

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

Table 7-1 IEEE Std 802.1AB.

SuggestedRemedy

Table 7-1 of IEEE Std 802.1AB.

Response **Response Status** **C**

ACCEPT.

See also comment #51.

Cl 79 **SC 79.2** **P 21** **L 36** # **12**
 Anslow, Peter Nortel Networks

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

Abbreviation TPMR is not expanded and is not in the abbreviations list

SuggestedRemedy

Replace TPMR with the expanded text

Response **Response Status** **C**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 36** # **90**
 Dawe, Piers Avago Technologies

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

New abbreviation "TPMR"

SuggestedRemedy

Avoid, expand, or add to abbreviations list

Response **Response Status** **C**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 36** # **91**
 Dawe, Piers Avago Technologies

Comment Type **T** **Comment Status** **R**

"the characteristics of the MAC may change between sender and receiver of an LLDPDU": I doubt it. The MAC doesn't move. Do you mean the apparent MAC address, or the apparent or advertised characteristics of a MAC as shown in a TLV, or what?

SuggestedRemedy

Revise

Response **Response Status** **C**

REJECT.

What this text is stating is that if you do not use the nearest device group MAC address the LLDP packets will pass through devices such as Two Port MAC Relays (also known as media converters) or Bridge.

Exchanging LLDP packets between two end stations through such devices may indeed result in different characteristics between the sender and the receiver, for example the sender could be half duplex while the receiver is full duplex.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 79 **SC 79.2** **P 21** **L 39** # **13**
 Anslow, Peter Nortel Networks

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

"Any adds or changes" could be better worded.

SuggestedRemedy

Change "Any adds or changes" to "Any additions or changes"

Response **Response Status** **C**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 39** # **16**
 Anslow, Peter Nortel Networks

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

All of the Tables and Figures in clause 79 are numbered as 78-xx

SuggestedRemedy

Re-number all Tables and Figures in clause 79 to be 79-xx

Response **Response Status** **W**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 40** # **18**
 Marris, Arthur Cadence

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

Table number is wrong

SuggestedRemedy

Correct table to be clause 79 rather than 78 throughout the document.

Also correct the figure numbers.

Response **Response Status** **U**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 40** # **70**
 Barnette, James Vitesse Semiconducto

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

References to figures and tables within clause 79 should not begin with 78.

SuggestedRemedy

Please correct figure and table numbers to be 79-... instead of 78-...

Response **Response Status** **W**

ACCEPT.

Cl 79 **SC 79.2** **P 21** **L 40** # **3**
 Kramer, Glen

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

"Any adds or changes"

SuggestedRemedy

"Any adds" should be "Any additions".

Response **Response Status** **C**

ACCEPT.

Cl 79 **SC 79.3** **P 22** **L 9** # **62**
 Ganga, Ilango Intel

Comment Type **E** **Comment Status** **R**

Capitalization:
 Change auto-negotiation to Auto-Negotiation to be consistent with the base standard 802.3-2008.

SuggestedRemedy

As per comment

Response **Response Status** **C**

REJECT.

The capitalization matches the capitalization is the TLV fields they are describing.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 79 **SC 79.3.1** **P 22** **L 40** # **86**
Dawe, Piers Avago Technologies

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

SuggestedRemedy

Reserved
Also in two more tables

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

Cl 79 **SC 79.3.2** **P 22** **L 45** # **92**
Dawe, Piers Avago Technologies

Comment Type **T** **Comment Status** **A**
New abbreviation "BITS"

SuggestedRemedy

Avoid, expand, or add to abbreviations list

Response **Response Status** **C**
ACCEPT IN PRINCIPLE.

In this case "BITS" is not an abbreviation but is instead a bitmap encoding used in MIBs. To clarify this the reference to this encoding will be removed and the encoding will be described in the text.

Will change the text to read 'The 'PMD auto-negotiation capability' field shall contain a 2 octet value that provides a bit-map of the ifMauAutoNegCapAdvertisedBits object, defined in IETF RFC 4836, of the sending device. Bit zero is the high order (left-most) bit in an octet string.'

Cl 79 **SC 79.3.3** **P 22** **L 50** # **63**
Ganga, Ilango Intel

Comment Type **E** **Comment Status** **R**
Capitalization of subclause title: operational MAU to Operational MAU

Similar capitalization of subclause title 79.4.3: power class to Power class

79.5.1 aggregation status to Aggregation status

Similarly 79.5.2, 79.6.1

SuggestedRemedy

As per comment

Response **Response Status** **C**
REJECT.

The capitalization of these subclause titles match the capitalization is the TLV fields they are describing.

Cl 79 **SC 79.3.3** **P 22** **L 53** # **93**
Dawe, Piers Avago Technologies

Comment Type **T** **Comment Status** **A**
New abbreviation "OID"

SuggestedRemedy

Avoid, expand, or add to abbreviations list

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

Will change 'OID' to read 'Object Identifier (OID)'.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 79 SC 79.4 P 23 L 12 # 94
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

"Three IEEE 802.3 PMD implementations (10BASE-T, 100BASE-TX, and 1000BASE-T)": this isn't what we mean by implementations, and it clashes with the meaning in 79.5. We cleaned up Clause 4 a few years ago.

SuggestedRemedy

Change to e.g. port types or PHY types.

Response Response Status C

ACCEPT IN PRINCIPLE.

Will base this text on the IEEE 802.3-2008 subclause 1.4.283 definition of PSE.

The text will be changed to read 'DTE power via MDI is intended to provide a 10BASE-T, 100BASE-TX, or 1000BASE-T device with a single interface for both the data it requires and the power to process these data.'

CI 79 SC 79.4 P 23 L 13 # 95
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

"power to be supplied over the link for connected non-powered systems" If they aren't powered, power doesn't need to be supplied for them.

SuggestedRemedy

Delete "for connected non-powered systems" or change to e.g. "for connected systems that may not have another power source"

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #94.

CI 79 SC 79.4 P 23 L 17 # 26
Grow, Robert Intel

Comment Type T Comment Status A

Fix problem indicated in editor's note.

SuggestedRemedy

TLV information string length = 7.

Response Response Status C

ACCEPT.

CI 79 SC 79.4 P 23 L 26 # 33
Booth, Brad AMCC

Comment Type E Comment Status A

Editor's note still in the draft. Is this still required?

SuggestedRemedy

Delete editor's note.

Response Response Status C

ACCEPT.

CI 79 SC 79.5.3 P 25 L 8 # 7
Zimmerman, George

Comment Type T Comment Status A

"should contain no more than one" - shouldn't this be "shall"? or do we need to define how it may contain more than one.

SuggestedRemedy

change should to shall

Response Response Status C

ACCEPT.

CI 79 SC 79.6.1 P 25 L 30 # 34
Booth, Brad AMCC

Comment Type TR Comment Status A

Draft makes reference to 802.3-2002. There is no such document anymore. As the reference relates to 802.3, which this is an amendment to, the reference to 802.3 is obsolete.

SuggestedRemedy

Remove occurrences in subclause of "of IEEE Std. 802.3-2002" and "of IEEE 802.3-2002".

Response Response Status W

ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 79 SC 79.6.1 P 25 L 30 # 27
Grow, Robert Intel

Comment Type T Comment Status A

Dated list referencing IEEE Std 802.3-2002

SuggestedRemedy

Either eliminate list keeping only the requirement in c), or insert a new item c) for enveloped frames. Also reference to Std 802.3 is not needed when part of 802.3. (I think the use of IEEE Std 802.3 in all other cases I noted are still acceptable as they are a name for a class of LLDP TLVs, but might be worthwhile for another set of eyes to search on IEEE Std 802.3 to see if there are any other cases of external references that now become internal references.)

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #96.

CI 79 SC 79.6.1 P 25 L 30 # 88
Dawe, Piers Avago Technologies

Comment Type E Comment Status A

3.1.1 of IEEE Std 802.3-2002

SuggestedRemedy

(simply) 3.1.1
Scrub the draft

Response Response Status C

ACCEPT.

CI 79 SC 79.6.1 P 25 L 30 # 19
Marris, Arthur Cadence

Comment Type T Comment Status A

Why reference the 2002 version of 802.3

SuggestedRemedy

Delete 'of IEEE Std 802.3-2002'

Response Response Status C

ACCEPT.

CI 79 SC 79.6.1 P 25 L 31 # 14
Anslow, Peter Nortel Networks

Comment Type E Comment Status A

This refers to IEEE 802.3 2002 which has been superceded by 802.3 2008. It is very unhelpful to refer to a superced version of the standard which is not available on the IEEE web site.

Also, the first occurrence is "IEEE Std 802.3 2002" and the second is "IEEE 802.3 2002"

SuggestedRemedy

Change the first occurrence to "IEEE 802.3 2008"

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #34. Since this a self reference it is not required.

CI 79 SC 79.6.1 P 25 L 33 # 15
Anslow, Peter Nortel Networks

Comment Type E Comment Status A

This refers to IEEE 802.3 2002 which has been superceded by 802.3 2008. It is very unhelpful to refer to a superced version of the standard which is not available on the IEEE web site.

SuggestedRemedy

Replace this reference to the appropriate point in 802.3 2008 (clause 3.5 does not exist)

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #34. Since this a self reference it is not required.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 79 SC 79.6.1 P 25 L 35 # 96
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

Now that we have a 2000-byte frame class

SuggestedRemedy

Change c) to:

If the MAC/PHY supports the envelope frame format as defined in 3.2.7, the maximum frame size field shall be set to 2000.

Response Response Status C

ACCEPT IN PRINCIPLE.

Will change item c) to read 'If the MAC/PHY supports the envelope frames MAC Client Data field size defined in 3.2.7, the maximum frame size field shall be set to 2000'.

In addition items a) and b) will be updated to reference 3.2.7 is a similar way.

CI 79 SC 79.6.1 P 25 L 36 # 99
Obara, Satoshi Fujitsu

Comment Type T Comment Status A

IEEE stds 802.3as specifies that maximum 802.3 frame size is 2000 octets.

We should write clearly maximum number of value.

SuggestedRemedy

Insert "(not more than 2000)" after "maximum value" in clause 79.6.1 c).

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #96.

CI 79 SC 79.7 P 25 L 46 # 36
Dawe, Piers Avago Technologies

Comment Type T Comment Status A

This piece of text is very hard to follow:

"The following LLDP variables cross reference to ... MIB tables indicate which specific TLVs are enabled for the particular port(s) on the system. ...

a) mibXdot3TLVsTxEnable: This variable lists the single-instance use IEEE 802.3

Organizationally Specific TLVs, each with a bit map indicating the system ports through which the referenced TLV is enabled for transmission."

Which is the main verb: "cross reference" or "indicate"?

What are "MIB tables", where are they? This is the only use of the term in the document

"The following LLDP variables..." followed by a list of one is not helpful for clarity or good style.

SuggestedRemedy

Please revise.

Response Response Status C

ACCEPT IN PRINCIPLE.

Will change the text '.. variables cross reference to LLDP local systems configuration MIB tables indicate which specific TLVs ..' to read '.. variable cross references to the LLDP local systems configuration MIB tables (see IEEE Std 802.1AB Clause 11) to indicate which specific TLVs ..'

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 79 **SC 79.7.1.1** **P 26** **L 5** # **37**
Dawe, Piers Avago Technologies

Comment Type E **Comment Status A**

These bulleted lists are really a table of three columns.

SuggestedRemedy

Would it be better to set it out as a table?

Response **Response Status C**

ACCEPT IN PRINCIPLE.

Subclause 79.7.1.1 through 79.7.1.4 describe the management objects which are now described in subclause 30.12.1 through 30.12.3.

As an example the subclause 79.7.1.1, item a) Auto-negotiation support which states 'Indication of whether auto-negotiation is supported (see 79.3.1).' is now described in subclause 30.12.2.1.1 aLdpXdot3LocPortAutoNegSupported which has a behavior 'A read-only Boolean value used to indicate whether the given port (associated with the local system) supports Auto-negotiation.'

Based on this subclause 79.7.1.1 through 79.7.1.4 will be deleted.

Cl 79 **SC 79.7.2** **P 26** **L 31** # **38**
Dawe, Piers Avago Technologies

Comment Type T **Comment Status A**

Line 31 says "IEEE 802.3 Organizationally Specific TLV variable" while lines 33 and 40 have "IEEE 802.3 TLV selection variables".

SuggestedRemedy

If these are the same thing, use the same name. If not, please explain.

Response **Response Status C**

ACCEPT IN PRINCIPLE.

These are the same hence '.. variable ..' will be changed to read '.. selection variable ..'.

Cl 79 **SC 79.7.2** **P 26** **L 31** # **39**
Dawe, Piers Avago Technologies

Comment Type T **Comment Status A**

Line 31 says "LLDP MIB object" while line 34 has "LLDP CONFIG object" and line 40 has "LLDP IEEE 802.3 MIB extension object".

SuggestedRemedy

If these are the same thing, use the same name. If not, please explain.

Response **Response Status C**

ACCEPT IN PRINCIPLE.

These should be the same and should reference the 'LLPD Configuration managed object class'. Similar changes need to be made to 79.7.3 to reference the 'LLDP Local and Remote System group managed object class'.

In addition in a number of other places the SNMP term 'object' should be the Clause 30 agnostic MIB term 'attribute' and the reference to 'Clause 30' should be clarified to the actual object.

Cl 79 **SC 79.7.3** **P 27** **L 43** # **53**
Claseman, George Micrel

Comment Type E **Comment Status A**

aldpXdot3Rem...

SuggestedRemedy

aLdpXdot3Rem...

Response **Response Status C**

ACCEPT.

Cl 79 **SC 79.8** **P 28** **L 7** # **9**
Hajduczenia, Marek

Comment Type E **Comment Status A**

Reference to clause 78 while should be to clause 79. Same in line 38 on page 28.

SuggestedRemedy

Change reference to "Clause 78" to "Clause 79". Same in line 38 on page 28.

Response **Response Status C**

ACCEPT.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

<i>Cl</i> 79	<i>SC</i> 79.8	<i>P</i> 28	<i>L</i> 7	# 42
Dawe, Piers				
Avago Technologies				
<i>Comment Type</i>	E	<i>Comment Status</i>	A	
Clause 78				
<i>SuggestedRemedy</i>				
Clause 79 (twice)				
<i>Response</i>		<i>Response Status</i>	C	
ACCEPT.				

<i>Cl</i> 79	<i>SC</i> 79.8.1	<i>P</i> 28	<i>L</i> 7	# 1
Chalupsky, David				
<i>Comment Type</i>	E	<i>Comment Status</i>	A	
text refers to Clause 78. Line 7 says "The supplier of a protocol implementation that is claimed to conform to Clause 78, IEEE 802.3 Organizationally Specific Link Layer Discov				
<i>SuggestedRemedy</i>				
Change "78" to "79" in line 7 of page 28.				
<i>Response</i>		<i>Response Status</i>	C	
ACCEPT.				

<i>Cl</i> 79	<i>SC</i> 79.8.1	<i>P</i> 28	<i>L</i> 7	# 54
Claseman, George				
Micrel				
<i>Comment Type</i>	E	<i>Comment Status</i>	A	
... Clause 78 ...				
<i>SuggestedRemedy</i>				
... Clause 79 ...				
<i>Response</i>		<i>Response Status</i>	C	
ACCEPT.				

<i>Cl</i> 79	<i>SC</i> 79.8.1	<i>P</i> 28	<i>L</i> 7	# 71
Barnette, James				
Vitesse Semiconducto				
<i>Comment Type</i>	ER	<i>Comment Status</i>	A	
Incorrect self-reference to Clause 78. This also occurs in the following on Page 28, Line 38, Subclause 79.8.2.2, in table				
<i>SuggestedRemedy</i>				
Change reference from "Cluase 78" to "Clause 79"				
<i>Response</i>		<i>Response Status</i>	W	
ACCEPT.				

<i>Cl</i> 79	<i>SC</i> 79.8.2.2	<i>P</i> 28	<i>L</i> 38	# 55
Claseman, George				
Micrel				
<i>Comment Type</i>	E	<i>Comment Status</i>	A	
... Clause 78 ...				
[Top of table]				
<i>SuggestedRemedy</i>				
... Clause 79 ...				
<i>Response</i>		<i>Response Status</i>	C	
ACCEPT.				

<i>Cl</i> 79	<i>SC</i> 79.8.3	<i>P</i> 29	<i>L</i> 1	# 43
Dawe, Piers				
Avago Technologies				
<i>Comment Type</i>	E	<i>Comment Status</i>	A	
capabilities				
<i>SuggestedRemedy</i>				
capabilities				
Spell check!				
<i>Response</i>		<i>Response Status</i>	C	
ACCEPT.				

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 79 **SC 79.8.3** **P 29** **L 12** # **41**
Dawe, Piers Avago Technologies

Comment Type **T** **Comment Status** **A**
Normative text contains more "shalls" than are acknowledged in PICS

SuggestedRemedy

Has the PICS detail section that usually follows "Major capabilities and options" gone missing?

Response **Response Status** **C**
ACCEPT IN PRINCIPLE.

The PICS follows the IEEE 802.1 format which I don't believe follows such a rigid mapping of shalls to PICS items as we do in IEEE 802.3.

The PICS will be updated following the IEEE 802.3 approach.

Cl 79 **SC Figure 78-3** **P 24** **L 27** # **25**
Grow, Robert Intel

Comment Type **E** **Comment Status** **R**
This and following TLV figures have different font or font size.

SuggestedRemedy

Make consistent and compliant with style manual.

Response **Response Status** **C**
REJECT.

These are imported graphics and the risk of introducing errors when redrawing them is considered to high.

Cl 79 **SC Table 78-1** **P 21** **L 43** # **24**
Grow, Robert Intel

Comment Type **E** **Comment Status** **A**
Bad FrameMaker definition.

SuggestedRemedy

Fix initial definition to "79", and all tables will probably be corrected.

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

Cl 99 **SC** **P 1** **L 28** # **58**
Ganga, Ilango Intel

Comment Type **E** **Comment Status** **A**
Fix the following typo/grammer:
Page 1, L28: Change from "a amendment to "an amendment"
Page 2, L1: Change from "transfer the" to "transfers the"
Page 3, L8: Change from "One expectations" to "One exception"
Page 4, L1: Change from ".Section" to "Section"
Page 4, L9: Change from "Clause 69 through 74" to "Clause 69 through Clause 74"
Page 4, L20: Change from "all other standards" to "all other IEEE standards"

SuggestedRemedy

As per comment

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

Cl 99 **SC** **P 10** **L 25** # **67**
Barnette, James Vitesse Semiconducto

Comment Type **E** **Comment Status** **A**
Formatting of long section heading is not good; missing leading preceding page number in table-of-contents. Also occurs on line 22.

SuggestedRemedy

Modify the table-of-contents to format long section headings in the same way that it is done in IEEE 802.3-2008, section 1, on page 23 for section 8.8 which has a long subsection heading that is well-formatted.

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

Cl 99 **SC** **P 2** **L 2** # **20**
Grow, Robert Intel

Comment Type **E** **Comment Status** **A**
Abstract is typically written as it will be published to minimize corrections required during publication.

SuggestedRemedy

Change draft amendment to amendment.

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

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

CI 99 SC P3 L13 # 21
Grow, Robert Intel

Comment Type E Comment Status R

Chair may want to change front matter template to minimize update. Some projects starting now (probably not this one) will not be published until 2010.

SuggestedRemedy

IEEE Std 802.3-200x should be changed to IEEE Std 802.3-20xx throughout.
Similar problem on page 7, line 1, and in the draft page 28 lines 7 and 37.

Response Response Status C

REJECT.

All instances of 200X are in reference to IEEE P802.3bc which is on plan for a 2009 approval. Should this date look unrealistic later in the year this can be corrected.

CI 99 SC P3 L20 # 22
Grow, Robert Intel

Comment Type E Comment Status A

I was unable to keep the historical listing in amendments, only include in revisions.

SuggestedRemedy

For amendments, this should reference the historical listing in IEEE Std 802.3-2008.

Response Response Status C

ACCEPT.

This text was left over from the IEEE 802.3ay front matter and will be deleted.

CI 99 SC P4 L1 # 10
Anslow, Peter Nortel Networks

Comment Type E Comment Status A

Page starts with ".Section Four" which has a spurious leading ".".

SuggestedRemedy

Remove the ".".

Response Response Status C

ACCEPT.

CI 99 SC P4 L34 # 59
Ganga, Ilango Intel

Comment Type E Comment Status A

Incorrect url:

SuggestedRemedy

Change to: <http://standards.ieee.org/reading/ieee/interp/index.html>

Response Response Status C

ACCEPT.

CI 99 SC P9 L14 # 60
Ganga, Ilango Intel

Comment Type E Comment Status A

ToC formatting:
Add title "Contents" in the top of this page

Line 14-through end of page: Add space between subclause number and subclause title.
Example: "30.12Layer Management"

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT.

CI 99 SC 99 P2 L47 # 73
Dawe, Piers Avago Technologies

Comment Type E Comment Status A

Copyright 2006?

SuggestedRemedy

Response Response Status C

ACCEPT IN PRINCIPLE.

Will change to 2009.

IEEE P802.3bc D2.0 Ethernet Organizationally Specific TLVs comments

Cl 99 SC 99 P2 L5 # 72
Dawe, Piers Avago Technologies
Comment Type E Comment Status A
LLDP, type, length, and value
SuggestedRemedy
LLDP; type, length, and value
Response Response Status C
ACCEPT.

Cl 99 SC 99 P4 L1 # 28
Booth, Brad AMCC
Comment Type E Comment Status A
Miscellaneous period at start of sentence: .Section Four
SuggestedRemedy
Delete period.
Response Response Status C
ACCEPT.

Cl 99 SC 99 P4 L1 # 74
Dawe, Piers Avago Technologies
Comment Type E Comment Status A
.Section
SuggestedRemedy
remove dot
Response Response Status C
ACCEPT.

Cl 99 SC 99 P4 L6 # 75
Dawe, Piers Avago Technologies
Comment Type E Comment Status A
subscriber access physical layers and sublayers
SuggestedRemedy
subscriber access and other physical layers and sublayers
Response Response Status C
ACCEPT.

Cl 99 SC 99 P4 L8 # 76
Dawe, Piers Avago Technologies
Comment Type E Comment Status A
10 new-line Gb/s
SuggestedRemedy
Use non-breaking space. Use Frame option to stop a break after / if necessary.
Response Response Status C
ACCEPT.

Cl 99 SC 99 P5 L6 # 77
Dawe, Piers Avago Technologies
Comment Type E Comment Status A
802.3Chair
SuggestedRemedy
insert space
Response Response Status C
ACCEPT.

Cl 99 SC 99 P8 L1 # 78
Dawe, Piers Avago Technologies
Comment Type E Comment Status A
This isn't the up-to-date symbols page
SuggestedRemedy

Response Response Status C
ACCEPT IN PRINCIPLE.

The page will be replaced with the master symbols page from the IEEE 802.3 tools area to ensure the most up to date page is in use. The only difference however seems to be the use of 'shft' instead of 'shift'.

If the commenter is aware of other changes that should be made they need to be added to the master copy of the symbols page on the IEEE 802.3 tools area.