Cl **FM** *SC* **FM** *P* **7** *L* **13** # 106

Law, David HPE

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

Please change 'IEEE P802.3.2/802.3cf' to read 'IEEE P802.3.2 (IEEE 802.3cf)' on line 13 and 14.

SuggestedRemedy

See comment.

Response *Response Status* **C**

ACCEPT.

Cl **FM** *SC* **FM** *P* **7** *L* **16** # 110

Law, David HPE

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

Please add the list of EEE 802.3 working group at the beginning of the IEEE P802.3.2 (IEEE 802.3cf) working group ballot.

SuggestedRemedy

See comment.

Response *Response Status* **C**

ACCEPT.

Cl **FM** *SC* **FM** *P* **9** *L* **18** # 107

Law, David HPE

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

Jonathan Goldberg is now the IEEE 802.3 IEEE Staff Liaison.

SuggestedRemedy

Please change 'Lisa Perry' to read 'Jonathan Goldberg'.

Response *Response Status* **C**

ACCEPT.

Cl **FM** *SC* **FM** *P* **10** *L* # 156

Anslow, Pete Ciena

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

Comment #226 against D2.0 was ACCEPT with suggested remedy:
"Make the copyright year 2018 in all sections of the draft."
However, the copyright year in the TOC is still 2013.
Also, line numbers are missing from the TOC

SuggestedRemedy

Make the copyright year 2018 in the TOC and add line numbers to the TOC.

Response *Response Status* **C**

ACCEPT.

Cl **00** *SC* **0** *P* *L* # 158

Anslow, Pete Ciena

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

Comment #229 against D2.0 was ACCEPT with suggested remedy:
"Remove the blank pages between clauses"
However, the blank pages are still there at the end of sections 1, 2, 3, 4, and 6.

SuggestedRemedy

Remove the blank pages between clauses

Response *Response Status* **C**

ACCEPT.

Cl **00** *SC* **0** *P* *L* # 157

Anslow, Pete Ciena

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

The footer in all sections of the draft except the frontmatter do not comply with the requirements of 9.1.2 of the IEEE style manual.

SuggestedRemedy

Update the footer in all sections of the draft to contain:
"Copyright © 2018 IEEE. All rights reserved.
This is an unapproved IEEE Standards Draft, subject to change."
with centred alignment.

Response *Response Status* **C**

ACCEPT.

Cl **00** *SC* **0** *P* **10** *L* # 162

Marris, Arthur Cadence Design Syste

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

The subclause headings are not in a consistent order.

Why are 5.1 and 5.3.2 both named the same "YANG module structure"

Why do some sections have a section for security considerations and others do not?

Shouldn't section 8.4 come before section 8.3?

SuggestedRemedy

Rename subclauses 5.3.2, 6.5.2, 7.3.2 and 8.5.2

Make section 8.4 for security come before section 8.3 for the object mapping

Remove "7.2.1 EPON architecture highlights" and promote the subclauses below 7.2.1.

Also consider whether the contents of 7.2.1 are really relevant to this standard.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Rename subclauses 5.3.2, 6.5.2, 7.3.2 and 8.5.2 to read "YANG module"

Move section 8.4 for security before section 8.3 for the object mapping

Remove "7.2.1 EPON architecture highlights" and promote the subclauses below 7.2.1.

Cl **00** *SC* **0** *P* **25** *L* **81** # 183

Seda, Marta Calix

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

mpcp-logical-link-admin-state typedef description contains a mixture of state and config data. If something is not persistent (e.g., reset, registration action, power down), it should be represented as a netconf action (one time action). As currently defined, it is unclear how the actions of registering/de-registering occur (e.g., deregistered enum value has a read and set description - if I issue mpcp-logical-link-admin-state with value of deregistered, what happens? Do I set it continually to be deregistering?). It seems it would be cleaner to make the mpcp-logical-link-admin-state as a read-only attribute that represents the logical link state and represent reset, power-down, registering set actions as netconf actions.

SuggestedRemedy

updated comment (4/25/2018):
The attached seda_3cf_02_0518_ieee802-ethernet-pon.yang line 159-199, 450 shows a proposal where actions are used for power/reset/register and the mpcp-logical-link-admin-state is only used to retrieve the status.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Use proposed changed per seda_3cf_02_0518_ieee802-ethernet-pon.yang line 159-199, 450, while new actions are defined in lines 2189-2231 in the same file, but with following changes:
- rename "container actions" to "container mpcp-logical-link-admin-actions".
- rename "power-action-type" to "state-change-action-type"
- change "Request a power-action of the interface" to "Request a state change on the interface"
- change "Type of power action requested of the interface" to "Type of interface state change requested"

Cl **00** *SC* **0** *P* **77** *L* **33** # 172

Seda, Marta Calix

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

The epon YANG code and tree shows that you have put the fec-capability under the fec-supported YANG feature.
'+--ro fec-capability? fec-capability {fec-supported}?

Page 85 defines the fec-supported yang feature to have the values unknown, supported and unsupported.

SuggestedRemedy

The fec-capability feature is defined as:
feature
fec-supported {
description
"This object indicates the support of operation of the optional
FEC sublayer of the 1000BASE-PX PHY specified in IEEE Std 802.3,
65.2. The value of 'unknown' is reported in the initialization,
for non FEC support state or type not yet known. The value of
'not supported' is reported when the sublayer is not supported.
The value of 'supported' is reported when the sublayer is
supported. This object is applicable for an OLT, with the
same value for all logical links, and for an ONU.
All objects in the fec/statistics container have a zero value
when the interface is not supporting FEC.";

YANG feature are either there or not (they don't assume integer values as described). I would recommend cleaning this up and instead using the below definition.
feature fec-supported {
description "FEC is supported }

A YANG user may want to know whether the device has FEC support or not. The fec-capability leaf/attribute should therefore not be under YANG feature fec-supported). (remove the if-feature on page 117 line 31/32).

Updated comment (4/24/18)
For your convenience, this issue has been fixed in the attached seda_3cf_02_0518_ieee802-ethernet-pon.yang (line 2072).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Remove "All objects in the fec/statistics container have a zero value when the interface is not supporting FEC." on page 85, line 20.

Remove the if-feature on page 117 line 31/32

Cl **00** *SC* **0** *P* **98** *L* **29** # 174

Seda, Marta Calix

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

I could not find a corresponding 802.3.1 MIB object that matches ompe-pkts-in description.

SuggestedRemedy

What is ompe-pkts-in equivalent to in the 802.3.1 MIB model? It seems to aggregate ONUPONcastLLID and OLTPONcastLLID (however the present ieee snmp MIBs don't define it this way).

Response *Response Status* **C**

REJECT.

Reference is to IEEE Std 802.3, 30.3.7.1.3 for ompe-pkts-in-errored-sld (an example).

Cl **00** *SC* **0** *P* **112** *L* **3** # 177

Seda, Marta Calix

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

mpcp-queue-threshold-count-max is defined as a RW attribute. 802.3.1 dot3ExtPkgObjectReportMaximumNumThreshold is defined as a Read-only attribute. Note that the description of the attribute is also read.

SuggestedRemedy

Please fix by adding a config false statement in the YANG file.

updated comment (4/24/18):
the attached seda_3cf_02_0518_ieee802-ethernet-pon.yang line 838 fixes this.

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **1** *SC* **1** *P* **13** *L* **4** # 108

Law, David HPE

Comment Type **TR** *Comment Status* **A**

I have a number of concerns in relation to the first paragraph of the overview text, including its alignment with the definitions found in IEEE Std 802.3-2015 subclause 1.4 'Definitions':

[1] Is it correct that these YANG models are for 'Ethernet links', instead aren't they for the end stations. A point to point full duplex 'Ethernet link' doesn't just have a YANG model, it will have two, one in each of the two end stations on the link. Similarly for a shared media 'Ethernet link' where instead of a model it will have as many YANG models as there are end stations.

[2] CSMA/CD can operate over both 'shared media' (a 'mixing segment', see IEEE Std 802.3-2015 subclause 1.4.277) such as coax, and 'point-to-point' media (a 'link segment', see IEEE Std 802.3-2015 subclause 1.4.255) such as twisted pair. Based on this the statement that 'This document defines YANG modules for shared media Ethernet links using CSMA/CD, dedicated Ethernet links in point-to-point ...' precludes YANG models for CSMA/CD operation over link segments which I don't think is correct. I believe a YANG model is provided for CSMA/CD operation regardless of the segment type.

[3] One of the potential components of a 'dedicated Ethernet point-to-point link' is a Midspan PSE. Since subclause 6.2 of YANG module of PSEs states 'The module augments the ieee802-ethernet-interface YANG module with attributes for PoE function' it appears that the PSE YANG module can only be associated with an 'Ethernet interface'. Since a Midspan PSE doesn't have an 'Ethernet interface' it appears to me the PSE YANG module is only applicable to Endpoint PSEs. Similarly one of the potential components of a 'shared media Ethernet link' is a repeater, however this is no YANG module provided for Repeaters.

Based on all the above it seems that the draft provides a YANG model for an Ethernet end station ('data terminal equipment (DTE)', see IEEE Std 802.3-2015 subclause 1.4.173).

SuggestedRemedy

Suggest that the first paragraph be changed to read 'This standard defines YANG modules for Ethernet data terminal equipment (DTE) specified in IEEE Std 802.3. This includes DTEs operation on mixing segments, using either CSMA/CD or multipoint control protocol (MPCP), operation on link segments, and operation as Power Sourcing Equipment (PSE).'

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change the first para to read

'This standard defines YANG modules for Ethernet data terminal equipment (DTE) specified in IEEE Std 802.3. This includes DTEs operating on mixing segments, using either Carrier Sense Multiple Access / Collision Detection (CSMA/CD) or multipoint control protocol (MPCP), link segments, and as Power Sourcing Equipment (PSE).'

Cl **1** *SC* **1** *P* **13** *L* **9** # 109

Law, David HPE

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

I would suggest that an edited version the second paragraph of Clause 1 'Overview' be moved to be the 'Introduction' text in the frontmatter which hasn't been provided yet.

SuggestedRemedy

{1] Delete the second paragraph of Clause 1 'Overview'.

[2] Add the following new 'Introduction' text to the frontmatter immediately before the Table of Contents.

Introduction

<BOX>
This introduction is not part of IEEE Std 802.3.2-20XX, IEEE Draft Standard for Ethernet YANG Data Model Definitions.
</BOX>

This initial version of this standard is based on the managed object definitions provided in IEEE Std 802.3TM-201X. IEEE Std 802.3 will continue to evolve. New Ethernet capabilities are anticipated to be added within the next few years, as amendments to IEEE Std 802.3. This may results in amendments or revision to IEEE Std 802.3.2.

Response *Response Status* **C**

ACCEPT.

Cl **1** *SC* **1.2** *P* **13** *L* # 184

Seda, Marta Calix

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

This section describes the 802.3/draft folder however does not list out the multiple files you have in that folder nor its purpose. Also if you go up two levels (in github), you have a draft folder containing yang types.

SuggestedRemedy

This document would benefit with descriptions around the structure that you have (or intending to have). For example, add a paragraph that states:

The following YANG modules are contained in that folder:
. ieee802-ethernet-pon.yang (IEEE Std 802.3, Clause 64/77 Ethernet PON YANG model)
.. Etc

The following IETF modules are used: // It is useful to understand what other SDO modules you are augmenting to.
- ietf-interfaces, etc

Response *Response Status* **C**

REJECT.

Document structure is clear enough in listing individual YANG modules and specific modules list imports providing necessary information on what external modules are loaded (imported).

Cl **1** *SC* **1.2** *P* **13** *L* **27** # 111

Law, David HPE

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

Subclause 10.4.3 'Purpose' of the IEEE-SA Standards Style Manual states that 'For new and revision projects, the purpose (if included) of the draft shall be within the parameters of the purpose given on the PAR, as determined by the balloting group voting on the draft.'.

Since the IEEE P802.3.2 PAR item 5.4 'purpose' reads 'The purpose of the standard is to define YANG models for IEEE Std 802.3 and publish these models in a machine-readable format.' suggest that all the other text that has been added about where the machine-readable files can be found and what to do in the case of discrepancies between the machine-readable YANG modules and pdf should be moved to a separate subclause.

SuggestedRemedy

Move all the subclause 1.2 'Purpose' text, with the exception of the first paragraph which match the purpose text in the PAR, to a new subclause.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Move all the subclause 1.2 'Purpose' text, with the exception of the first paragraph which match the purpose text in the PAR, to a new subclause 1.3, entitled "Machine-readable YANG modules"

Cl **1** *SC* **1.4** *P* *L* # 186

Seda, Marta Calix

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

NETCONF over TLS is not mentioned in the first paragraph (RFC 5539).

SuggestedRemedy

It is true that IETF mandates NETCONF over SSH. Some mention of NETCONF over TLS should be added to this paragraph (you could take IETF's position that it is optional).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change "The lowest NETCONF
layer is the secure transport layer, and the mandatory-to-implement secure transport is Secure Shell (SSH)
(see IETF RFC 6242)" to "The lowest NETCONF
layer is the secure transport layer, and the mandatory-to-implement secure transport is Secure Shell (SSH)
(see IETF RFC 6242) or TLS (see IETF RFC 5246)."

Cl **1** *SC* **1.4** *P* **13** *L* **55** # 91

Zhuang, Yan Huawei Technologies

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

"The YANG module defined in this standard is designed to be accessed..." There are 5 modules but one model defined...

SuggestedRemedy

change it to "The YANG modules defined in this standard are..." or "The YANG model defined in this standard is..."

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

change the referenced text to "YANG modules defined in this standard are..."

Cl **2** *SC* **2** *P* **16** *L* **49** # 92

Zhuang, Yan Huawei Technologies

Comment Type **ER** *Comment Status* **A** *8343*

IETF 7223bis which is A YANG Data Model for Interface Management has been published as RFC 8343.

SuggestedRemedy

replace all RFC 7223 to RFC 8343.
p16,line49
p28,line36
p33,line12
p33,line31
p34,line28
p34,line47
p36,line23
…...

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Per comment + add RFC 8343 to list of normative references + remove RFC 7223 from the list of normative references.

Cl **3** *SC* **3** *P* **18** *L* **7** # 101

Slavick, Jeff Broadcom Inc

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

Definitions don't begin with what you're defining that's already been stated.

SuggestedRemedy

Change 3.1 data model: …. To be "3.1 data model: Description of how data is reprsented and accessed.

Response *Response Status* **C**

REJECT.

Comment type was changed from E to T

Current definition is not circular or self referencing.

Cl **3** *SC* **3** *P* **18** *L* **10** # 102

Slavick, Jeff Broadcom Inc

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

Definitions don't begin with what you're defining that's already been stated.

SuggestedRemedy

Remove "A YANG module defines a" from the defintion text for YANG module.

Response *Response Status* **C**

REJECT.

Comment type was changed from E to T

Current definition is not circular or self referencing.

Cl **5** *SC* **5.2** *P* **23** *L* **9** # 103

Slavick, Jeff Broadcom Inc

Comment Type **TR** *Comment Status* **A**

In Table 501 aAutoNegAdminControl is really acAutoNegAdminControl and has a sub-clause that can be referenced.

SuggestedRemedy

Change aAutoNegAdminControl to acAutoNegAdminControl and the cross reference to 30.6.1.2.2 in Table 5-1

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.2** *P* **23** *L* **23** # 104

Slavick, Jeff Broadcom Inc

Comment Type **TR** *Comment Status* **A**

Per comment D2.0 comment #207 all MIB/RFC fields were suppose to be moved into Table 5-2. However, dot3HCInPFCFrames and dot3HCOutPFCFrames are still in Table 5-1.

SuggestedRemedy

Move these fields into Table 5-2.

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **28** *L* **36** # 42

Trowbridge, Steve Nokia

Comment Type **T** *Comment Status* **A** *8343*

RFC 7223 is the former RFC specifying the interface model. It is the none-NMDA version. Recently IETF approved an update which is NMDA compliant: RFC 8343. As IEEE follows the NMDA approach and as the updated interface model reached RFC status it would be better to refer to RFC 8343.

SuggestedRemedy

Replace:
"IETF RFC 7223"
by:
"IETF RFC 8343"
In analogy: change this reference throughout the full document.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #92.

Comment type was changed from E to T

Cl **5** *SC* **5.3.2.1** *P* **28** *L* **62** # 43

Trowbridge, Steve Nokia

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

There is a difference between the content in pdf and in Git: the git version also contains a reference.
This reference statement in Git uses tab characters which does not make it well aligned
The same problem appears for the next lines, i.e. the typedef for eth-if-speed-type.
(line 40 to 44 in git).

SuggestedRemedy

Assure the content of the pdf and the git is identical. Probably add the reference statement in the pdf.
Correct the indentation in the YANG module (Git).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Add back reference to the draft per comment #126

Cl **5** *SC* **5.3.2.1** *P* **28** *L* **63** # 126

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

The draft seems to be missing several lines from the file on Github.

SuggestedRemedy

Restore the following lines in the draft which immediately follow the description. Note that the Github file seems to contain tab characters which should be replaced with spaces as is done below.

```
 reference "IEEE Std 802.3-2018, unless dated explicitly";

 typedef eth-if-speed-type {
  type decimal64 {
   fraction-digits 3;
  }
  units "Gb/s";
  description
   "Used to represent the configured, negotiated, or actual speed
    of an Ethernet interface in Gigabits per second (Gb/s),
    accurate to 3 decimal places (i.e., accurate to 1 Mb/s)";
 }
```

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **29** *L* **35** # 44

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general and comment 340 in specific.
The data node "dupplex" is read-write. Depending on the datastore this data node can contain 'the configured, negotiated, or actual' value. Just as for the data node "speed".
This is not well reflected in the description of the typedef 'duplex-type', it is better reflected in the description of the typedef 'eth-if-speed-type'.

SuggestedRemedy

Replace:
"The current duplex mode of operation of an Ethernet interface."
by:
"Used to represent the configured, negotiated, or actual duplex mode of an Ethernet interface."

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **5** *SC* **5.3.2.1** *P* **29** *L* **48** # 127

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

There are several discrepancies between the module in the draft and the module on Github. In the draft there are no long lines in the description whereas in Github there are several.

SuggestedRemedy

Correct the long lines in the Github.
fixed in remein_3cf_4_0518

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **30** *L* **21** # 45

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general and comment 342 in specific.
The typedef "pause-fc-direction-type" mentions configuration and operational state. The support of pause frames can also be negotiated. It might be worth to accentuate this by modifying the description similar to the description of the typedef 'eth-if-speed-type'.

SuggestedRemedy

Replace:
"Enumerates the possible PAUSE frame based flow control settings that can be used in explicit configuration, or when reporting the operational state"
by:
"Used to represent the configured, negotiated, or actual PAUSE frame based flow control setting.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Replace:
"Enumerates the possible PAUSE frame based flow control settings that can be used in explicit configuration, or when reporting the operational state"
by:
"Used to represent the configured, negotiated, or actual PAUSE frame-based flow control setting.

Cl **5** *SC* **5.3.2.1** *P* **30** *L* **58** # 39

Boyd, Joey ADTRAN

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

Since you can have Ethernet interfaces which do not support auto-negotiation, this container should have a presence statement.

SuggestedRemedy

Add the following:

presence
"The presence of this container indicates that auto-negotiation is supported on this Ethernet interface.";

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **30** *L* **63** # 46

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339, i.e. assure all read-write objects have a good definition.
One possible solution is to put all the leaf specific information into the description of the corresponding leaf (and this was the underlying assumption for the various D2.0 comments). I hereby assume that the IEEE preference is to have also some description at container level. Ok, but then the description is modified accordingly.

SuggestedRemedy

Replace:
"This leaf allows the advertised duplex value in the negotiation to be restricted.
If not specified then the default behavior is to negotiate all available values for the particular type of Ethernet PHY associated with the interface."
by:
"This container contains a data node that allows the advertised duplex value in the negotiation to be restricted.
If not specified then the default behavior for the duplex data node is to negotiate all available values for the particular type of Ethernet PHY associated with the interface."

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **5** *SC* **5.3.2.1** *P* **31** *L* **1** # 128

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

There is a discrepancy between the module in the draft and the module on Github. In the draft "behaviour" does not appear. If I download the module from Github the misspelling appears in the description for the auto-negotiation container. It seems that the module text shown on pg 31 line 1 in the draft misrepresents the Github module.

SuggestedRemedy

Correct the misspelling in the Github,
This fix is included in remein_3cf_4_0518.

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **31** *L* **11** # 47

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general and comment 342 in specific.
For a management interface one expects to define that via configuration data one instructs how the system shall behave, and via operational data the system reports back. The local configuration is not affected by the peer device capabilities/configuration.

SuggestedRemedy

Remove the last sentence, i.e. replace:
"If auto-negotiation is enabled, and PAUSE frame based flow control has not been explicitly configured, then the default PAUSE frame based flow control capabilities that are negotiated allows for bi-directional or egress-only PAUSE frame based flow control to be negotiated (depending on the peer device capabilities/configuration)."
By:
"If auto-negotiation is enabled, and PAUSE frame based flow control has not been explicitly configured, then the default PAUSE frame based flow control capabilities that are negotiated allows for bi-directional or egress-only PAUSE frame based flow control."

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Remove the last sentence, i.e. replace:
"If auto-negotiation is enabled, and PAUSE frame based flow control has not been explicitly configured, then the default PAUSE frame based flow control capabilities that are negotiated allows for bi-directional or egress-only PAUSE frame based flow control to be negotiated (depending on the peer device capabilities/configuration)."
By:
"If auto-negotiation is enabled, and PAUSE frame based flow control has not been explicitly configured, then the default PAUSE frame based flow control capabilities that are negotiated allow for bi-directional or egress-only PAUSE frame based flow control."

Cl **5** *SC* **5.3.2.1** *P* **31** *L* **35** # 48

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general.
Assigning a default automatically means the leaf will always have a value, also when the interface does not support auto-negotiation. Add some description for it.

SuggestedRemedy

Add at the end of the to decription
"For interface types that do not support auto-negotiation then the related configuration data is ignored.";

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Add at the end of the to decription
"For interface types that do not support auto-negotiation, the related configuration data is ignored.";

Cl **5** *SC* **5.3.2.1** *P* **31** *L* **38** # 49

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general.
The leaf "negotiation-status" has 4 values. Shall the object exist on interfaces that do not support auto-negotiation? If yes, which value?

SuggestedRemedy

Proposal: yes the object exists for all Ethernet interfaces. Therefore introduce an extra value:
enum no-negotiation {
description
"No auto-negotiation is executed. This can be because auto-negotation is not supported on that type of interface, or because auto-negotiation is not enabled.";
[and restrict the use of value 'unknown' for the situation auto-negotiation is applicable but the status is ... unknown.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

The object exists for all Ethernet interfaces. Add an extra value to the already defined enum values:

enum no-negotiation {
description
"No auto-negotiation is executed. The auto-negotation function is either not supported on this interface or has not been enabled.";}

Cl **5** *SC* **5.3.2.1** *P* **32** *L* **17** # 50

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 339 in general and comment 340 in specific.
Leaf duplex: the statement "The default value is implementation-dependent." is in conflict with specifying a default in the type definition, see P29 line 32. Note that not specifying a default value creates a 3rd situation, i.e. the leaf has no value.
At minimum the 2 statements shall be made consistent. Hereby I assume the approach is as in the description of the leaf duplex and I propose to improve it.

SuggestedRemedy

1. Remove p29 line 32, i.e. remove 'default full'.
2. P32 line 18: add some more description, i.e.
Replace:
"The default value is implementation-dependent"
by:
"The leaf is optional for configuration and if not configured then the applied value is implementation-dependent. The operational datastore shall always contain the actually applied value".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Strike: "The default value is implementation-dependent" in "leaf duplex"

Cl **5** *SC* **5.3.2.1** *P* **32** *L* **38** # 51

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general and comment 341 in specific.
The description of the leaf "speed" can improved.

SuggestedRemedy

Replace:
"The default value is implementation-dependent"
by:
"The leaf is optional for configuration and if not configured then the applied value is implementation-dependent. The operational datastore shall always contain the actually applied value".

Response *Response Status* **C**

REJECT.

Existing text is sufficient, consistent, and technically correct

Cl **5** *SC* **5.3.2.1** *P* **32** *L* **47** # 52

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general.
The description for the leaf "direction" can be improved.

SuggestedRemedy

Replace:
"Indicates which direction PAUSE frame based flow control is enabled in, or whether it is disabled. The default flow-control settings are vendor specific. If auto-negotiation is enabled, then PAUSE based flow-control is negotiated by default.
The default value is implementation-dependent."
By:
"If auto-negotiation is enabled, then PAUSE based flow-control is negotiated by default. The configuration of this leaf indicates for which direction PAUSE frame based flow control is negotiated, or whether it is disabled. If not configured then the applied value is implementation-dependent. The operational datastore shall always contain the actually applied value".

Response *Response Status* **C**

REJECT.

Existing text is sufficient and technically correct.

Cl **5** *SC* **5.3.2.1** *P* **34** *L* **2** # 53

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general and comment 343 in specific.
leaf pfc/enable: improve the description "The default value is implementation-dependent"

SuggestedRemedy

Replace:
"The default value is implementation-dependent"
by:
"The leaf is optional for configuration and if not configured then the applied value is implementation-dependent. The operational datastore shall always contain the actually applied value".

Response *Response Status* **C**

REJECT.

Existing text is sufficient, consistent, and technically correct.

Cl **5** *SC* **5.3.2.1** *P* **35** *L* **11** # 54

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 339 in general.
leaf force-flow-control: improve the description "The default value is implementation-dependent"
simultaneously the leaf has a default value, see p 34 line 56. This is a contradiction.
Solution: either remove the default statement (and improve the description), or remove the line from the description. Here the first is assumed.

SuggestedRemedy

1. remove the default statement from p34 line 56.
2. Replace:
"The default value is implementation-dependent"
by:
"The leaf is optional for configuration and if not configured then the applied value is implementation-dependent. The operational datastore shall always contain the actually applied value".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Remove the statement "The default value is implementation-dependent" in "leaf force-flow-control"

Cl **5** *SC* **5.3.2.1** *P* **35** *L* **62** # 129

Remein, Duane Huawei

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

"capabilties" misspelled twice. Also on pf 87 line 61

SuggestedRemedy

Change to "capabilities" (Included in remein_3cf_3_0518 for pg 87 remein_3cf_4_0518 for pg31).

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **36** *L* **2** # 55

Trowbridge, Steve Nokia

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

leaf "auto-negotiation" is part of a config false container but still has a default value. This is an inconsistency. Default values are not relevant in config false leafs.

SuggestedRemedy

Remove the "default false" statement.

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **36** *L* **45** # 56

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 338.
The description of the container includes "A frame that is counted by an instance of this object is also counted by the corresponding instance of 'in-errors' leaf defined in the ietf-interfaces YANG module (IETF RFC 7223)."
First: this description is not part of an object so it is not clear what it refers to.
2nd: it is in contradiction with the statement in section 5.1 paragraph 2 that states that this IETF specified counter is not supported.

SuggestedRemedy

Remove the paragraph:
"A frame that is counted by an instance of this object is also counted by the corresponding instance of 'in-errors' leaf defined in the ietf-interfaces YANG module (IETF RFC 7223)."

Response *Response Status* **C**

ACCEPT.

Changed comment type from E to T

Cl **5** *SC* **5.3.2.1** *P* **36** *L* **58** # 40

Boyd, Joey ADTRAN

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

The context of all of these counts is the Ethernet frame. The parent container is 'frames', the units are frames and the descriptions refer to frames. In light of that, I believe the leaf names should reflect 'frames' instead of 'pkts'. It is understood that the IETF use 'pkts' and using 'pkts' provide some consistency but this model is dealing exclusively with frames.

SuggestedRemedy

Change all leaf names to use 'frames' instead of 'pkts'.

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **5** *SC* **5.3.2.1** *P* **42** *L* **14** # 130

Remein, Duane Huawei

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

In most cases where the word description appears in the description text it is surrounded by single quotes, not so here.

SuggestedRemedy

Surround the word with single quotes.
This fix is included in remein_3cf_4_0518

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.1** *P* **43** *L* **19** # 131

Remein, Duane Huawei

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

This sentence does not make sense:
"A count of occurrences of the transition from state LPI_DEASSERTED to state LPI_ASSERTED of the LPI transmit state diagram is the RS. ..."

SuggestedRemedy

Change to (observe indenting and line feeds):
"A count of occurrences of the transition from state LPI_DEASSERTED to state LPI_ASSERTED in the LPI transmit state diagram of the RS. ..."
This fix is NOT INCLUDED in remein_3cf_4_0518

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.2** *P* **46** *L* **57** # 93

Zhuang, Yan Huawei Technologies

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

missing statements request half-duplex interfaces derived from ethernetCsmacd.

SuggestedRemedy

add "derived-from-or-self(../if:type, 'ianaift:ethernetCsmacd')" to "when" statements.
P46, Line 57:
when "derived-from-or-self(../if:type, 'ianaift:ethernetCsmacd') and eth-if:duplex = 'half'"
p47, Line 21:
when "derived-from-or-self(../../if:type, 'ianaift:ethernetCsmacd') and ../eth-if:duplex = 'half'"
p47, line50:
when "derived-from-or-self(../../../if:type, 'ianaift:ethernetCsmacd') and ../../eth-if:duplex = 'half'"

Response *Response Status* **C**

ACCEPT.

Cl **5** *SC* **5.3.2.3** *P* **46** *L* **64** # 94

Zhuang, Yan Huawei Technologies

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

change the wording "deprecated" in description.

SuggestedRemedy

change the description to:
"Augment with Ethernet interface configuration parameters for half duplex."

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

change the description to:
"Augment with Ethernet interface configuration parameters for half-duplex operation."

Cl **5** *SC* **5.3.2.4** *P* **47** *L* **56** # 95

Zhuang, Yan Huawei Technologies

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

incorrect description

SuggestedRemedy

change the description to statistics:
"Augment with statistics for half duplex Ethernet interface."

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

"Augment with statistics for half-duplex Ethernet interface."

Cl **5** *SC* **Table 5-1Table 5-2T** *P* *L* # 191

Seda, Marta Calix

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

Use of more YANG friendly terms.

SuggestedRemedy

One table header is titled "corresponding ieee802-ethernet-interface YANG data nodes". Shouldn't the header be relabeled "Corresponding ieee802-ethernet-interface YANG module"? (swap the term data node with module).

The 2nd to last column has a header called Data Node. The column content contain leaf names. Would it be more accurate to relabel this header instead to "Leaf Name"?.

The last column has a header titled R/W. YANG supports the ability to declare something as config true/false. (the term R/W isn't used in YANG). I personally prefer keeping this column (it is short and to the point) instead of swapping the contents to YANG terms. Would it be possible to move this column to the left of the Reference column?

Response *Response Status* **C**

REJECT.

This table lists nodes within the module correspondign to specific attribute in Clause 30. Current description is correct.

Cl **6** *SC* **6.5.2** *P* *L* # 167

David Tremblay Hewlett Packard Enter

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

Include reference to Clause 145, where applicable

SuggestedRemedy

add clause 145 reference for multi-pair PSE and any other applicable locations

Response *Response Status* **C**

REJECT.

Specific references where and if needed are invited. The Editor will not guess what specific locations in the module need references to Clause 145.

Also, the proposed references seem to point to .3bt, which is out of scope for this project at this time.

Cl **6** *SC* **6.5.2** *P* **56** *L* **1** # 132

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

There is a discrepancy between the module in the draft and the module on Github. In the draft "auto-negotation" does not appear. If I download the module from Github the misspelling appears in the description for the negotiation-status leaf. It seems that the module text shown on pg 31 line 51 in the draft misrepresents the Github module.

SuggestedRemedy

Correct the misspelling in the Github

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **56** *L* **15** # 133

Remein, Duane Huawei

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

Numerous editorial changes to descriptions including: Sentence capitalization, ending periods, and tab replacement with spaces. A few typo corrections included that are detailed in other comments.

SuggestedRemedy

See remein_3cf_1_0518 ieee802-ethernet-pse diff.docx

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **56** *L* **37** # 96

Zhuang, Yan Huawei Technologies

Comment Type **TR** *Comment Status* **A**

The prefix "yang" is not defined in ieee802-ethernet-pse module. Missing import of "ietf-yang-types"

SuggestedRemedy

add import statement for ietf-yang-types:

```
import ietf-yang-types {
  prefix yang;
  reference "IETF RFC 6991";
}
```

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **58** *L* **10** # 159

Anslow, Pete Ciena

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

Comment #234 against D2.0 was ACCEPT with suggested remedy:
"Change "30.15.1.3" to "30.15.1.1.3"
[since 30.15.1.3 does not exist]
However, this change has not been implemented.

SuggestedRemedy

Change "30.15.1.3" to "30.15.1.1.3"

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **59** *L* **2** # 112

Remein, Duane Huawei

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

Is this description for the power class or the state?

SuggestedRemedy

Change:
"initializing, true state not yet known only for PoDL PSE." To:
"Initializing, true Power Class not yet known (only for PoDL PSE)."

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **59** *L* **48** # 113

Remein, Duane Huawei

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

"Augements"? Misspelled.

SuggestedRemedy

change to "Augments"
(included in remein_3cf_1_0518)

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **60** *L* **19** # 114

Remein, Duane Huawei

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

Description can stand some wording improvements: "whether to enable the PSE function on the interface.";

SuggestedRemedy

Change to:
“When true enables the PSE function on the interface, when false disables the PSE function on the interface.";

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **6** *SC* **6.5.2** *P* **60** *L* **32** # 115

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A** *11*

What is "pethPsePortPowerPairsControl" I could not find another reference to this in the draft. This looks like a carryover from Cl 30 (See 30.12.2.1.8 aLldpXdot3LocPowerPairControlable)

SuggestedRemedy

Replace with correct reference (not sure what that is). Note the sentence should end in a period.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Replace “pethPsePortPowerPairsControl” with “pairs-control-ability”.

Cl **6** *SC* **6.5.2** *P* **60** *L* **47** # 116

Remein, Duane Huawei

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

Wording: "Describes the capability of controlling the power pairs functionality to switch pins for sourcing power."

SuggestedRemedy

Change to: "Describes the ability to control switching the power sourcing pins of the PSE." (may need to be on two lines)

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **6** *SC* **6.5.2** *P* **61** *L* **25** # 117

Remein, Duane Huawei

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

Wording: "This counter is incremented when the PSE state diagram enters the state POWER_DENIED";
The SD doesn't enter states, the PSE does.

SuggestedRemedy

Change to:
"This counter is incremented when the PSE enters the POWER_DENIED state.";
(may need to be on multiple lines).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to:
"This counter is incremented when the PSE enters the POWER_DENIED state, per IEEE Std 802.3, Figure 33-9.";
(may need to be on multiple lines).

Cl **6** *SC* **6.5.2** *P* **61** *L* **36** # 118

Remein, Duane Huawei

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

Wording: "This counter is incremented when the PSE state diagram enters the state SIGNATURE_INVALID.";
The SD doesn't enter states, the PSE does.

SuggestedRemedy

Change to:
"This counter is incremented when the PSE enters the SIGNATURE_INVALID state.";
(may need to be on multiple lines).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to:
"This counter is incremented when the PSE enters the SIGNATURE_INVALID state, per IEEE Std 802.3, Figure 33-9.";
(may need to be on multiple lines).

Cl **6** *SC* **6.5.2** *P* **61** *L* **36** # 119

Remein, Duane Huawei

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

Wording: "This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_SHORT, per IEEE Std 802.3, Figure 33-9.";
The SD doesn't enter states, the PSE does.

SuggestedRemedy

Change to:
"This counter is incremented when the PSE enters the ERROR_DELAY_SHORT state, per IEEE Std 802.3, Figure 33-9.";
(may need to be on multiple lines).

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **6** *SC* **6.5.2** *P* **61** *L* **47** # 120

Remein, Duane Huawei

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

Wording: "This counter is incremented when the PSE state diagram transitions directly from the state POWER_ON to the state IDLE due to tmpdo_timer_done being asserted";
The SD doesn't enter states, the PSE does.

SuggestedRemedy

Change to:
"This counter is incremented when the PSE transitions directly from the POWER_ON state to the IDLE state due to tmpdo_timer_done being asserted";
(may need to be on multiple lines).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to:
"This counter is incremented when the PSE transitions directly from the POWER_ON state to the IDLE state due to tmpdo_timer_done being asserted, per IEEE Std 802.3, Figure 33-9.";
(may need to be on multiple lines).

Cl **6** *SC* **6.5.2** *P* **61** *L* **59** # 121

Remein, Duane Huawei

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

Wording: "This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_OVER.";
The SD doesn't enter states, the PSE does.

SuggestedRemedy

Change to:
"This counter is incremented when the PSE enters the ERROR_DELAY_OVER state.";
(may need to be on multiple lines).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to:
"This counter is incremented when the PSE enters the ERROR_DELAY_OVER state, per IEEE Std 802.3, Figure 33-9.";
(may need to be on multiple lines).

Cl **6** *SC* **6.5.2** *P* **62** *L* **46** # 122

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

Incorrect type "type uint64;"
Description and Cl 30 indicate this is a signed number.

SuggestedRemedy

Change type to int64

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **62** *L* **51** # 123

Remein, Duane Huawei

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

What is "aPSEActualPower"? It's clearly in the reference but it describes the accuracy of the YANG leaf actual-power. Shouldn't that be in the description instead?

SuggestedRemedy

Change:
"An integer value indicating the accuracy associated with aPSEActualPower in +/- milliwatts."; To:
"An integer value indicating the accuracy associated with actual-power in +/- milliwatts.";

Response *Response Status* **C**

ACCEPT.

Cl **6** *SC* **6.5.2** *P* **63** *L* **7** # 124

Remein, Duane Huawei

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

Description can stand some wording improvements: "whether to enable the PSE function on the interface.";

SuggestedRemedy

Change to:
"When true enables the PSE function on the interface, when false disables the PSE function on the interface.";

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **6** *SC* **6.5.2** *P* **64** *L* **38** # 134

Remein, Duane Huawei

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

We should be clear which port we are talking about: "power class of the port"

SuggestedRemedy

Change to "Power class of the PSE port."

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **6** *SC* **6.5.2** *P* **64** *L* **65** # 135

Remein, Duane Huawei

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

Wording: "This counter is incremented when the PSE state diagram enters the state SIGNATURE_INVALID.";
The SD doesn't enter states, the PSE does.

SuggestedRemedy

Change to:
"This counter is incremented when the PSE enters the SIGNATURE_INVALID state.";
(may need to be on multiple lines).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to:
"This counter is incremented when the PSE enters the SIGNATURE_INVALID state per IEEE Std 802.3, Figure 33-9.";
(may need to be on multiple lines).

Cl **6** *SC* **6.5.2** *P* **66** *L* **18** # 136

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

Incorrect type "type uint64;"
Description and Cl 30 indicate this is a signed number.

SuggestedRemedy

Change type to int64

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Per comment.

Also, change "with aPoDLPSEActualPower in milliwatts" to "with power-accuracy in milliwatts"

Cl **7** *SC* **7.2.1.1** *P* **68** *L* **56** # 164

Gorshe, Steve Microsemi Corp.

Comment Type **TR** *Comment Status* **A**

Now that reference to 10G-EPON has been added, some additional updates are required. The first location is the list of reference clauses that begins here.

SuggestedRemedy

Modify the paragraph beginning in line 56 to replace references to "EPON" with "1G-EPON" and add the following new paragraph and list:
"The IEEE layering architecture of a 10G-EPON interface is defined in the diagram of Figures 56–3 and 56–4 in IEEE Std 802.3. The following clauses in IEEE Std 802.3 define the corresponding layers of an 10G-EPON interface:
— Clause 30: Management
— Clause 75: PMD for 10G-EPON media (burst-mode PMD)
— Clause 77: MPCP (Multipoint Control Protocol), which defines the Multipoint architecture and control protocol for the media access of 10G-EPON.
— Clause 76: Reconciliation Sublayer and Physical Coding Sublayer, which defines a number of extensions to standard Gigabit Ethernet PCS, i.e.,
a) Definition of the optional (frame-based) FEC for 10G-EPON
b) PMA for 10G-EPON

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Modify the paragraph beginning in line 56 to replace references to "EPON" with "1G-EPON" and add the following new paragraph and list:
"The IEEE layering architecture of a 10G-EPON interface is defined in the diagram of Figures 56–3 and 56–4 in IEEE Std 802.3. The following clauses in IEEE Std 802.3 define the corresponding layers of an 10G-EPON interface:
— Clause 30: Management
— Clause 75: PMD for 10G-EPON media (burst-mode PMD)
— Clause 76: Reconciliation Sublayer and Physical Coding Sublayer, which defines a number of extensions to standard Gigabit Ethernet PCS, i.e.,
a) Definition of the optional (frame-based) FEC for 10G-EPON
b) PMA for 10G-EPON
— Clause 77: MPCP (Multipoint Control Protocol), which defines the Multipoint architecture and control protocol for the media access of 10G-EPON."

Also, in description of 1G-EPON, swap location of Clause 65 and 64, to make layers go from bottom (PMD) to top (MPCP).

Cl **7** *SC* **7.2.1.7** *P* **74** *L* **3** # 165

Gorshe, Steve Microsemi Corp.

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

Is it correct that this sub-clause does not elaborate on 10G-EPON FEC since it mandatory and hence not a management parameter?

SuggestedRemedy

If the assumption of the comment is correct, it could be helpful to the reader to note that in the introductory paragraph of 7.2.1.7.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Strike "but is mandatory for 10G-EPON" on page 74, line 3. Replace all instances of EPON to 1G-EPON on page 74, lines 3 - 35.

Insert text from hajduczenia_3cf_01_0518.pdf on page 74, line 36 (after Figure 7-5).

Cl **7** *SC* **7.2.1.7** *P* **74** *L* **34** # 166

Gorshe, Steve Microsemi Corp.

Comment Type **TR** *Comment Status* **A**

The Figure 7-5 title needs to be modified, since it only applies to 1G-EPON.

SuggestedRemedy

Modify the Figure 7-5 title to read "1G-EPON FEC protected frame"

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Modify the Figure 7-5 title to read "1G-EPON FEC-protected frame"

Cl **7** *SC* **7.3** *P* **76** *L* **51** # 137

Remein, Duane Huawei

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

"threholds"? What is a threholds?

SuggestedRemedy

replace threholds with thresholds (this change is included in remein_3cfr_3_0518)

Response *Response Status* **C**

ACCEPT.

Cl **7** *SC* **7.3** *P* **76** *L* **51** # 138

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

There is a discrepancy between the module in the draft and the module on Github. In the draft "threholds" appears once in the Tree hierarchy. If I download the pon module from Github the misspelling appears twice. It seems that the module text shown on pg 101 line 24 and 31 in the draft misrepresents the Github module.

SuggestedRemedy

Correct the misspelling in Github and re-integrate the module into the draft. Correct the misspelling in the Tree hierarchy of the draft.

Response *Response Status* **C**

ACCEPT.

Cl **7** *SC* **7.3** *P* **79** *L* **10** # 139

Remein, Duane Huawei

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

The style used for the type instruction is inconsistent within the module and between other modules. Sometime it is a one-line instruction, sometimes on two-lines without indentation and sometimes it is on two-lines with indentation. This also is an issue with the range instruction within a type.

SuggestedRemedy

Use a one-line instructions exclusively. So for example this:

```
type
uint64 {
  range
    "0 .. 32767";
}
```

becomes this:

```
type uint64 {
   range "0 .. 32767";
}
```

(this change is included in remein_3cfr_3_0518)

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Adopt changes to a single-line instructions per remein_3cf_3_0518

Cl **7** *SC* **7.3** *P* **88** *L* **25** # 140

Remein, Duane Huawei

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

The style used for the units instruction is inconsistent within the module and between other modules. Sometime it is a one-line instruction, sometimes on two-lines without indentation and sometimes it is on two-lines with indentation.

SuggestedRemedy

Use a one-line instructions exclusively (this change is included in remein_3cfr_3_0518).

Response *Response Status* **C**

ACCEPT.

Adopt changes to a single-line instructions per remein_3cf_3_0518

Cl **7** *SC* **7.3** *P* **88** *L* **28** # 141

Remein, Duane Huawei

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

The style used for the config instruction is inconsistent within the module and between other modules. Sometime it is a one-line instruction, sometimes on two-lines without indentation and sometimes it is on two-lines with indentation.

SuggestedRemedy

Use one-line instructions exclusively (this change is included in remein_3cfr_3_0518).

Response *Response Status* **C**

ACCEPT.

Adopt changes to a single-line instructions per remein_3cf_3_0518

Cl **7** *SC* **7.3.2** *P* **88** *L* **20** # 41

Boyd, Joey ADTRAN

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

The counters in the EPON YANG module use the xxx-in and xxx-out naming convention while those in the Ethernet YANG modules use the in-xxx and out-xxx format just as ietf-interfaces does. It would provide greater consistency to use the in-xxx and out-xxx format for the EPON YANG module..

SuggestedRemedy

Change naming of counter values from xxx-in to out-xxx and from xxx-out to in-xxx.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change naming of counter values from xxx-in to in-xxx and from xxx-out to out-xxx.

Cl **7** *SC* **7.3/2** *P* **78** *L* **26** # 163

Marris, Arthur Cadence Design Syste

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

7223 is yellow

SuggestedRemedy

Correct formatting of "7223" here and elsewhere in the document.

Response *Response Status* **C**

REJECT.

Clean version of the draft does not have a single instnce of "7233" in yellow.

Cl **8** *SC* **8.3** *P* **127** *L* **11** # 160

Anslow, Pete Ciena

Comment Type **ER** *Comment Status* **A** *rx-fault*

Required comment #228 against D2.0 was ACCEPT IN PRINCIPLE with response starting: "Several TBD instances are addressed by individual comments. The remaining items are addressed below:"
However, there are still two instances of "TBD" in the draft.

SuggestedRemedy

Replace them with suitable text. Until this is done, the draft is not ready to progress to Sponsor ballot (hence Required comment).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Remove "rx-fault" leaf altogether, including entry in the table of properties. There is no defintion of the functionality "rx-fault" in IEEE Std 802.3 or IEEE Std 802.3.1.

Cl **8** *SC* **8.4** *P* **127** *L* **11** # 105

Slavick, Jeff Broadcom Inc

Comment Type **TR** *Comment Status* **A** *rx-fault*

The rx-fault Data node has a reference of {TBD}

SuggestedRemedy

Replace the {TBD}s with appropriate mapping for the rx-fault entry.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #160

Cl **8** *SC* **8.5.2** *P* **28** *L* **17** # 125

Remein, Duane Huawei

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

Numerous editorial changes in descriptions including: ending periods, several long lines shortened , and a few style (always begin text on new line).

SuggestedRemedy

See remein_3cf_4_0518 ieee802-ethernet-interface diff.docx

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Wrong reference clause/subclause - 6/6.5.2 is likely target.

Cl **8** *SC* **8.5.2** *P* **133** *L* **15** # 142

Remein, Duane Huawei

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

Numerous editorial changes to descriptions including: Sentence capitalization, ending periods, tab replacement with spaces and style consistency. A few typo corrections included that are detailed in other comments.
Style changes include:
1) description always start on new line.
2) type instructions on one line (see separate comment).
3) units instructions on one line (see separate comment).
4) config instructions on one line (see separate comment).

SuggestedRemedy

See remein_3cf_2_0518 ieee802-ethernet-link-oam diff.docx

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **133** *L* **28** # 57

Trowbridge, Steve Nokia

Comment Type **E** *Comment Status* **A** *7223*

RFC 7223 is the former RFC specifying the interface model. It is the none-NMDA version.
Recently IETF approved an update which is NMDA compliant: RFC 8343.
As IEEE follows the NMDA approach and as the updated interface model reached RFC status it would be better to refer to RFC 8343.

SuggestedRemedy

Replace:
"IETF RFC 7223"
by
"IETF RFC 8343"
In analogy: change this reference throughout the full document.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #92

Cl **8** *SC* **8.5.2** *P* **133** *L* **43** # 58

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 367.

There is a difference between the content in pdf and in Git: the git version does not contain the "import ieee802-ethernet-interface { prefix "eth-if"; }" statement, which is correct; while the pdf version still contains this statement.
On p133 line 60 it also makes this statement in text which is incorrect too.

SuggestedRemedy

1. Remove the import statement on line 43.
2. Remove the statement on line 60.
"This YANG module augments the 'ieee802-ethernet-interface' module."

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **133** *L* **43** # 97

Zhuang, Yan Huawei Technologies

Comment Type **TR** *Comment Status* **A**

imported module ieee802-ethernet-interface not used in ieee802-ethernet-link-oam module.

SuggestedRemedy

remove the import of ieee802-ethernet-interface.

Response *Response Status* **C**

ACCEPT.

See comment 58

Cl **8** *SC* **8.5.2** *P* **133** *L* **47** # 143

Remein, Duane Huawei

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

Typo "Working"

SuggestedRemedy

fixed in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **133** *L* **62** # 59

Trowbridge, Steve Nokia

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

There is a difference between the content in pdf and in Git: the git version also contains a reference.
This reference statement in Git uses tab characters which does not make it well aligned

SuggestedRemedy

Assure the content of the pdf and the git is identical.
Probably: add the reference statement in the pdf.
Correct the indentation by replacing 'tab' by spaces in the YANG module (in Git).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Git content will be sunchronized to the draft (this is the normative document).

Format fixes per comment #142

Cl **8** *SC* **8.5.2** *P* **134** *L* **13** # 144

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **A**

There are several discrepancies between the module in the draft and the module on Github. In the draft there are no long lines in the description whereas in Github there are several.

SuggestedRemedy

Correct the long lines in the Github.
fixed in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Git content will be synchronized to the content from the draft.

Cl **8** *SC* **8.5.2** *P* **134** *L* **28** # 60

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 345. Basically this is the same comment as comment 344 (which is accepted in principle) but for another feature.

The description of "feature link-monitoring" says the device supports link monitoring. From the description it is not clear whether this means support for initiating a threshold crossing event to the peer side, or support receiving and reporting on events received from the peer side, or both.

SuggestedRemedy

Split into 2 features to allow announcing the support for both procedures separately.
Make it clear in the description what it is about.
And apply the definition for all corresponding data.

Replace:

```
 feature link-monitoring {
  description
   "This feature means the device supports Link Monitoring.";
  reference
   "IEEE Std 802.3, 57.1.2:c:1,30.3.6.1.6 aOAMLocalConfiguration, and
    30.3.6.1.7 aOAMRemoteConfiguration";
 }
```

By:

```
 feature link-monitoring-local {
  description
   "This feature means the device monitors the link at the local
    side and can generate Link Event OAMPDUs to the peer device.";
  reference
   "IEEE Std 802.3, 57.1.2:c:1,30.3.6.1.6 aOAMLocalConfiguration, and
    30.3.6.1.7 aOAMRemoteConfiguration";
 }
 feature link-monitoring-remote {
  description
   "This feature means the device can process Link Event OAMPDUs
    received from the peer device and report itself about this event
    on its own management interface.";
  reference
   "IEEE Std 802.3, 57.1.2:c:1,30.3.6.1.6 aOAMLocalConfiguration, and
    30.3.6.1.7 aOAMRemoteConfiguration";
 }
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Changes per suggested remedy + Replace “link-monitoring” with “link-monitoring-local and link-monitoring-remote” in the draft.

Cl **8** *SC* **8.5.2** *P* **134** *L* **36** # 61

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 346. Basically this is the same comment as comment 344 (which is accepted in principle) but for another feature.

The description of "feature remote-mib-retrieval" says the device supports remote MIB retrieval. From the description it is not clear whether this means support initiating a variable requests to the peer side, or support receiving and replying to variable requests received from the peer side, or both.

SuggestedRemedy

Split into 2 features to allow announcing the support for both procedures separately.
Make it clear in the description what it is about.
And apply the definition for all corresponding data.

Replace:

```
 feature remote-mib-retrieval {
  description
   "This feature means the device supports remote MIB retrieval.";
  reference
   "IEEE Std 802.3, 57.1.2:c:2,30.3.6.1.6 aOAMLocalConfiguration, and 30.3.6.1.7
aOAMRemoteConfiguration";
 }
```

By:

```
 feature remote-mib-retrieval-initiate {
  description
   "This feature means the device supports data retrieval from the
    peer device. I.e. the device can send Variable Requests OAMPDUs
    to the peer side and process the received Variable Response OAMPDUs.";
  reference
   "IEEE Std 802.3, 57.1.2:c:2,30.3.6.1.6 aOAMLocalConfiguration, and
    30.3.6.1.7 aOAMRemoteConfiguration";
 }
 feature remote-mib-retrieval-respond {
  description
   "This feature means the device allows the peer device to retrieve
    data from the managed device. I.e. the device can process received
    Variable Requests OAMPDUs and respond with Variable Response
    OAMPDUs.";
  reference
   "IEEE Std 802.3, 57.1.2:c:2,30.3.6.1.6 aOAMLocalConfiguration, and
    30.3.6.1.7 aOAMRemoteConfiguration";
 }
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Changes per suggested remedy + Replace “feature remote-mib-retrieval” with “remote-mib-retrieval-initiate and remote-mib-retrieval-respond” in the draft.

Cl **8** *SC* **8.5.2** *P* **137** *L* **29** # 145

Remein, Duane Huawei

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

"config" should be spelled out in description

SuggestedRemedy

fixed in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **138** *L* **9** # 31

Boyd, Joey ADTRAN

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

Length is not sufficient to represent an OUI using the hex-string type. The pattern of the hex-string type is HH:HH:HH meaning it would take an 8 character string to represent the OUI.

SuggestedRemedy

Change to:

```
typedef vendor-oui {
  type yang:hex-string {
    length 8;
  }
  description
    "24-bit Organizationally Unique Identifier";
  reference
    "IEEE Std 802-2001, Clause 9";
}
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **138** *L* **24** # 146

Remein, Duane Huawei

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

Description states "IEEE Std 802.3 OAM admin is enabled" wording is misleading. Similar issue line 30 with disabled state

SuggestedRemedy

Change to "IEEE Std 802.3 OAM is in the enabled admin state." (line 24) and "IEEE Std 802.3 OAM is in the disabled admin state." (line 30).
fixed in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change to "IEEE Std 802.3, Clause 57 OAM is in the enabled admin state." (line 24) and "IEEE Std 802.3, Clause 57 OAM is in the disabled admin state." (line 30).

OAM Is defined in Clause 57 - 802.3 is a big document and rapidly growing

---

Cl **8** *SC* **8.5.2** *P* **138** *L* **33** # 147

Remein, Duane Huawei

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

description is a fragment. OAM should be capitalized in a description.

SuggestedRemedy

change to read: "The admin state of the OAM function on an interface."
fixed in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **138** *L* **61** # 148

Remein, Duane Huawei

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

"unix" should be capitalized.

SuggestedRemedy

Capitalize Unix.

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **139** *L* **19** # 62

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a new comment but also a bit an indirect continuation of D2.0 comment 345. The background of the comment is to assure by YANG syntax that only relevant data nodes are defined and where needed this might be device specific by using features, in this case it relates to the feature link-monitoring.

The understanding is that for the notification 'non-threshold-data' (page 151, line 35) the threshold related data nodes are not applicable and therefore these data nodes should not be present in the notification.
It contains these data nodes because it uses the common grouping "event-details". This is not device dependent and therefore can not besolved by a feature. There is only one solution: split the grouping into 2 separate groupings.

Within these data nodes it is written "The default value is implementation-dependent". At the same time the node is mandatory. This is inconsistent. One of both must be removed.

SuggestedRemedy

Spilt the grouping "event-details" into 2 groupings: "event-details" and "threshold-event-details". The container "threshold is removed from the first and added in the new separate grouping "threshold-event-details". Then adapt the use statements where needed:

1. remove the container thresholds:
delete from page 139 line 19 up to page 140 line 3 (the 2nd "}").

2. insert the new grouping e.g. at page 140 line 31 containing the container "threshold" as defined now (note: it includes the if-feature statement with an update)

```
  grouping threshold-event-details {
    description
      "Nodes describing a threshold event, used in the event log and in
       notifications";
    reference
      "IETF RFC 4878, Dot3OamEventLogEntry";

    container threshold {
      when "../event-type = 'threshold-event-type'" {
        description
          "These nodes only apply to threshold event types";
      }
      if-feature "link-monitoring-local or link-monitoring-remote";
      description
        "Nodes specific to threshold (link monitoring) events";

      leaf threshold-event-type {
        type threshold-event-enum;
        mandatory true;
        description
          "The type of threshold event";
        reference
          "IEEE Std 802.3, 57.5.3";
      }
      leaf window {
        type uint64;
        mandatory true;
        description
          "Size of the window in which the event was generated. Units
           are dependent on the threshold event type.";
      }
      leaf threshold {
        type uint64;
        mandatory true;
        description
          "Size of the threshold that was breached during the window.
           Units are dependent on the threshold event type.";
      }
      leaf value {
        type uint64;
        mandatory true;
        description
          "Breaching value. Units are dependent on the threshold
           event type, and match that of the threshold.";
      }
    }
  }
```

3. Assure threshold data nodes are still available in the log by adding a new uses statement:

```
    list event-log-entry {
      key "index";
      description
        "Ethernet Link OAM event log entry";
      leaf index {
        type uint64;
        description "Index of this event in the event log";
      }
      uses event-details;
      uses threshold-event-details;
```

4. Assure the threshold data nodes are still available in the notification "threshold-event" by adding a new uses statement:

```
  notification threshold-event {
    if-feature "link-monitoring-local or link-monitoring-remote";
    description
      "This notification is sent when a local or remote threshold
       crossing event is detected.";
    uses event-details {
```

```
    refine event-type {
      must ". = 'threshold-event-type'" {
        description
          "This leaf is set to 'threshold-event-type'";
      }
     }
    }
    uses threshold-event-details;
  }
```

5. and keep the notification non-threshold-event as is and then this will not longer contain the data nodes for a threshold-event.

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **139** *L* **40** # 32

Boyd, Joey ADTRAN

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

The leaf node, window, is mandatory yet has text in the description which states "The default value is implementation-dependent". This statement could be confusing from a NETCONF/YANG perspective in that the 'mandatory true' statement implies that the node does not have a default value and must be configured by the client.

SuggestedRemedy

Remove the last sentence in the description, "The default value is implementation-dependent."

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **139** *L* **49** # 33

Boyd, Joey ADTRAN

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

The leaf node, threashold, is mandatory yet has text in the description which states "The default value is implementation-dependent". This statement could be confusing from a NETCONF/YANG perspective in that the 'mandatory true' statement implies that the node does not have a default value and must be configured by the client.

SuggestedRemedy

Remove the last sentence in the description, "The default value is implementation-dependent."

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **140** *L* **38** # 34

Boyd, Joey ADTRAN

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

The counters in the ELO YANG module use the xxx-rx and xxx-tx naming convention while those in the Ethernet YANG modules use the in-xxx and out-xxx format just as ietf-interfaces does. It would provide greater consistency to use the in-xxx and out-xxx format for the ELO YANG module..

SuggestedRemedy

Change naming of counter values from xxx-tx to out-xxx and from xxx-rx to in-xxx.

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **8** *SC* **8.5.2** *P* **140** *L* **58** # 63

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:

```
leaf unique-event-notification-tx {
  type yang:counter64;
```

By:

```
leaf unique-event-notification-tx {
  if-feature link-monitoring-local;
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **141** *L* **2** # 64

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:

```
leaf unique-event-notification-rx {
  type yang:counter64;
```

By:

```
leaf unique-event-notification-rx {
  if-feature link-monitoring-remote;
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **141** *L* **12** # 65

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:

```
leaf duplicate-event-notification-tx {
 type yang:counter64;
```

By:

```
leaf duplicate-event-notification-tx {
  if-feature link-monitoring-local;
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **141** *L* **12** # 66

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:

```
leaf duplicate-event-notification-rx {
  type yang:counter64;
```

By:

```
leaf duplicate-event-notification-rx {
  if-feature link-monitoring-remote;
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **141** *L* **53** # 67

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:

```
leaf variable-request-tx {
  type yang:counter64;
```

By:

```
leaf variable-request-tx {
  if-feature remote-mib-retrieval-initiate;
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **141** *L* **62** # 68

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:
leaf variable-request-rx {
type yang:counter64;
By:
leaf variable-request-rx {
if-feature remote-mib-retrieval-respond;
type yang:counter64;

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **142** *L* **8** # 69

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:
leaf variable-response-tx {
type yang:counter64;
By:
leaf variable-response-tx {
if-feature remote-mib-retrieval-respond;
type yang:counter64;

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **142** *L* **18** # 70

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and comment 360. Basically: make the counters feature dependent.

SuggestedRemedy

Replace:
leaf variable-response-rx {
type yang:counter64;
By:
leaf variable-response-rx {
if-feature remote-mib-retrieval-initiate;
type yang:counter64;

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **143** *L* **18** # 149

Remein, Duane Huawei

Comment Type **TR** *Comment Status* **D**

This is more a question than a comment but I don't see how these groupings, discovery-remote and discovery-local (pg 144 line 25), map into Cl 30. The ref is to 30.2.6.1.3 (aOAMMode) and 30.3.6.1.7 (aOAMDiscoveryState) but these two sections seem unrelated.
How is this properly related to Cl 30?

SuggestedRemedy

Upon receiving a good understandable explanation I will withdraw this comment (unless some corrective action needs to be taken).

Proposed Response *Response Status* **Z**

REJECT.

This comment was WITHDRAWN by the commenter.

Cl **8** *SC* **8.5.2** *P* **143** *L* **18** # 89

Trowbridge, Steve Nokia

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

The grouping 'discovery-remote' is about reporting information received from the peer side.
How can this have a default value? How can this be implementation dependent?
Propose to remove such statements.

SuggestedRemedy

Change the former definition of discovery-grouping to:

```
 grouping discovery-remote {
  description
   "Nodes describing the discovery process remote end of a link.";
  leaf mode {
   type mode;
   description
    "Mode (passive/active).";
   reference
    "IEEE Std 802.3, 30.3.6.1.3";
  }
  container functions-supported {
   description
    "The Link OAM functions supported by this interface";
   reference
    "IEEE Std 802.3, 30.3.6.1.7";
   leaf uni-directional-link-fault {
    type boolean;
    description
     "Unidirectional link fault support.";
   }
   leaf loopback {
    type boolean;
    description
     "Remote Loopback support.";
   }
   leaf link-monitoring {
    type boolean;
    description
     "Link monitoring support.";
   }

   leaf mib-retrieval {
    type boolean;
    description
     "MIB variable retrieval support.";
   }
  }

  }
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change the former definition of discovery-grouping to:

```
 grouping discovery-remote {
  description
   "Nodes describing the discovery process remote end of a link.";
  leaf mode {
   type mode;
   description
    "Mode (passive/active).";
   reference
    "IEEE Std 802.3, 30.3.6.1.3";
  }
  container functions-supported {
   description
    "The Link OAM functions supported by this interface";
   reference
    "IEEE Std 802.3, 30.3.6.1.7";
   leaf uni-directional-link-fault {
    type boolean;
    description
     "Unidirectional link fault support.";
   }
   leaf loopback {
    type boolean;
    description
     "Remote Loopback support.";
   }
   leaf link-monitoring {
    type boolean;
    description
     "Link monitoring support.";
   }

   leaf mib-retrieval {
    type boolean;
    description
     "MIB variable retrieval support.";
   }
  }

leaf revision {
type uint64;
config false;
description "Configuration revision";
reference
"IEEE Std 802.3, 30.3.6.1.12 and 30.3.6.1.13";
}
```

```
leaf mtu {
type uint64;
units "bytes";
config false;
description "The maximum OAMPDU size";
reference
"IEEE Std 802.3, 30.3.6.1.8 and 30.3.6.1.9";
}
  }
```

Cl **8** *SC* **8.5.2** *P* **143** *L* **19** # 150

Remein, Duane Huawei

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

description wording "Nodes describing the discovery process remote end of a link."

SuggestedRemedy

Change to: "Nodes describing the remote end discovery process of a link."
This fix is NOT INCLUDED in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to: "Nodes describing the remote-end discovery process of a link."

Cl **8** *SC* **8.5.2** *P* **143** *L* **60** # 35

Boyd, Joey ADTRAN

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

The module defines a feature 'remote-mib-retrieval' to make this optional yet this node does not use the appropriate 'if-feature' statement.

SuggestedRemedy

Change to:

```
leaf mib-retrieval {
  if-feature "remote-mib-retrieval";
  type boolean;
  description
    "MIB variable retrieval support.
     The default value is implementation-dependent.";
}
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Given that we have two new definitions in #61 to replace “remote-mib-retrieval”, it should be changed to:

```
leaf mib-retrieval {
  if-feature "remote-mib-retrieval-initiate or remote-mib-retrieval-response";
  type boolean;
  description
    "MIB variable retrieval support.";
}
```

Add if-feature "link-monitoring-local or link-monitoring-remote" to “leaf link-monitoring” on P143, L51?

Cl **8** *SC* **8.5.2** *P* **144** *L* **27** # 151

Remein, Duane Huawei

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

description wording "Nodes describing the discovery process local end of a link.";

SuggestedRemedy

Change to: "Nodes describing the local end discovery process of a link."
This fix is NOT INCLUDED in remein_3cf_2_0518

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Change to: "Nodes describing the local end discovery process of a link."

Cl **8** *SC* **8.5.2** *P* **144** *L* **45** # 71

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 361 and also makes the analogy with comment 339: i.e. assure the device behaviour is always well defined.

The leaf "discovery-local/functions-supported/uni-directional-link-fault" :
361: add the if feature statement
339: Clarify the description in analogy with the comments on the ethernet PHY model.

SuggestedRemedy

Replace:

```
leaf uni-directional-link-fault {
  type boolean;
  description
    "Unidirectional link fault support.
     The default value is implementation-dependent.";
}
```

by:

```
leaf uni-directional-link-fault {
  if-feature uni-directional-link-fault;
  type boolean;
  description
    "Unidirectional link fault support.
     This affects the setting of the 'Unidirectional Support' bit
     in the OAM configuration field put in the Information OAMPDU.
     This bit indicatess to the peer device that it can send OAM
     PDUs on links that are operating in unidirectional mode
     (traffic flowing in one direction only).

     The leaf is optional for configuration and if not configured
     then the applied value is implementation-dependent. The
     operational datastore shall always contain the actually
     applied value.";
}
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Replace:

```
leaf uni-directional-link-fault {
  type boolean;
  description
    "Unidirectional link fault support.
     The default value is implementation-dependent.";
}
```

by:

```
leaf uni-directional-link-fault {
  if-feature uni-directional-link-fault;
  type boolean;
  description
    "Unidirectional link fault support.
     This affects the setting of the 'Unidirectional Support' bit
     in the OAM configuration field put in the Information OAMPDU.
     This bit indicates to the peer device that it can send OAM
     PDUs on links that are operating in unidirectional mode
     (traffic flowing in one direction only).";
}
```

Cl **8** *SC* **8.5.2** *P* **144** *L* **52** # 72

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 362 and also makes the analogy with comment 339: i.e. assure the device behaviour is always well defined.

The understanding of the leaf "loopback" is that this affects the setting of the 'OAM Remote Loopback support" bit in the OAM configuration field put in the Information OAMPDU.

SuggestedRemedy

Replace:

```
leaf loopback {
  if-feature remote-loopback-initiate;
  type boolean;
  default true;
  description
    "Remote Loopback support";
}
```

By:

```
leaf loopback {
  if-feature "remote-loopback-initiate or remote-loopback-respond";
  type boolean;
  default true;
  description
    "Remote Loopback support.
     This affects the setting of the 'OAM Remote Loopback Support'
     bit in the OAM configuration field put in the Information
     OAMPDU. This bit indicates to the peer device that
     the OAM entity can initiate and respond to loopback
     commands.";
}
```

Response *Response Status* **C**

REJECT.

Type changed from E to T

The proposed replacement text is not correct, in that the boolean leaf does not correctly represent all possible 4 logical states.

Cl **8** *SC* **8.5.2** *P* **144** *L* **61** # 73

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 345. Basically: make the data nodes feature dependent.

The container link-monitor has a leaf "link-monitoring". The understanding: this affects the setting of the 'Link events' bit in the OAM configuration field put in the Information OAMPDU. this relates to both directions.

The container also contains a list "event-type". Assumption: these provide the threshold for use at the local side.

Therefore: remove the feature at the container level and introduce the proper feature at data node level.

SuggestedRemedy

1. Replace:

```
container link-monitor {
  if-feature link-monitoring;
  description
    "Configure link monitor parameters";
```

By:

```
container link-monitor {
  if-feature "link-monitoring-remote or link-monitoring-local";
  description
    "Configure link monitor parameters";
```

2. Replace:

```
leaf link-monitoring {
  type boolean;
  default true;
  description "Enable or disable monitoring";
}
```

By:

```
leaf link-monitoring {
  type boolean;
  default true;
  description
    "Enable or disable monitoring
     This affects the setting of the 'Link Events' bit in the
     OAM configuration field put in the Information OAMPDU.
     This bit indicatess to the peer device that the OAM entity
     can send and receive Event Notification OAMPDUs.";
}
```

3. Replace:

```
list event-type {
```

key threshold-type;
description

By:

list event-type {
if-feature link-monitoring-local;
key threshold-type;
description

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Changes per comment. Fix typo in "indicatess"

Cl **8** *SC* **8.5.2** *P* **144** *L* **62** # 36

Boyd, Joey ADTRAN

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

Some 'if-feature' statements place quotes around the name of the feature, while this one does not.

SuggestedRemedy

Provide consistency in format by encasing all feature names in double quotes, e.g. if-feature "link-monitoring".

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Use quotes around all "if-feature" statements in the draft

Cl **8** *SC* **8.5.2** *P* **145** *L* **11** # 90

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

The list event-type has as key the threshold-type. In the description of this leaf it refers to a defaule value. This is inconsistent: the key is always mandatory and a default is not applicable.

SuggestedRemedy

Replace:

```
list event-type {
  key threshold-type;
  description
    "A list containing at most one entry for each of the
     threshold event types. If there is no entry for a
     particular event type, the default values are used for
     both window size and threshold.";
  leaf threshold-type {
    type threshold-event-enum;
    description
      "The type of threshold event for which this list entry is
       specifying the configuration.
       The default value is implementation-dependent.";
    reference
      "IEEE Std 802.3, 57.5.3";
  }
```

By:

```
list event-type {
  if-feature link-monitoring-local;
  key threshold-type;
  description
    "A list containing at most one entry for each of the
     threshold event types. If there is no entry for a
     particular event type, the default values are used for
     both window size and threshold.";
  leaf threshold-type {
    type threshold-event-enum;
    description
      "The type of threshold event for which this list entry is
       specifying the configuration.";
    reference
      "IEEE Std 802.3, 57.5.3";
  }
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **145** *L* **34** # 152

Remein, Duane Huawei

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

The structure of this description leaves much to be desired. Although I generally dislike the idea of indenting within a description I think in this case it is warranted.

SuggestedRemedy

See remein_3cf_10_0518.pdf.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Implement together with comment #74

Cl **8** *SC* **8.5.2** *P* **146** *L* **6** # 74

Trowbridge, Steve Nokia

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

The description of the leaf "window" does specify a default value in the description. At the same time it states "The default value is implementation-dependent". This is a contradiction.

SuggestedRemedy

Proposed to keep the specified default values and remove the last statement:

Symbol Period:
Units: number of symbols
Default: number of symbols in one second for the underlying physical layer
Min: number of symbols in one second for the underlying physical layer
Max: number of symbols in one minute for the underlying physical layer
Frame:
Units: deciseconds
Default: 1 second
Min: 1 second
Max: 1 minute
Frame Period:
Units: number of frames
Default: number of minFrameSize frames in one second for the underlying physical layer
Min: number of minFrameSize frames in one second for the underlying physical layer
Max: number of minFrameSize frames in one minute for the underlying physical layer
Frame Seconds:
Units: deciseconds
Default: 60 seconds
Min: 10 seconds
Max: 900 seconds.";

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **8** *SC* **8.5.2** *P* **146** *L* **41** # 75

Trowbridge, Steve Nokia

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

This comment is a continuation of comment 363 (couple to the right feature) and extended in analogy with comment 339: i.e. assure the device behaviour is always well defined

The leaf "discovery-local/functions-supported/mib-retrieval" is read-write and contains in the description "The default value is implementation-dependent".
Clarify the description in analogy with the comments on the ethernet PHY model.

SuggestedRemedy

Replace:

```
leaf mib-retrieval {
  type boolean;
  description
    "MIB variable retrieval support.
     The default value is implementation-dependent.";
}
```

By:

```
leaf mib-retrieval {
  if-feature "remote-mib-retrieval-initiate or remote-mib-retrieval-respond";
  type boolean;
  description
    "MIB variable retrieval support.
     This affects the setting of the 'Variable Retrieval' bit in
     the OAM configuration field put in the Information OAMPDU.
     This bit indicates to the peer device that the OAM entity
     can send and receive Variable Request and Response
     OAMPDUs.

     The leaf is optional for configuration and if not configured
     then the applied value is implementation-dependent. The
     operational datastore shall always contain the actually
     applied value.";
}
  }
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Replace:

```
leaf mib-retrieval {
  type boolean;
  description
    "MIB variable retrieval support.
     The default value is implementation-dependent.";
}
```

By:

```
leaf mib-retrieval {
  if-feature "remote-mib-retrieval-initiate or remote-mib-retrieval-respond";
  type boolean;
  description
    "MIB variable retrieval support.
     This affects the setting of the 'Variable Retrieval' bit in
     the OAM configuration field put in the Information OAMPDU.
     This bit indicates to the peer device that the OAM entity
     can send and receive Variable Request and Response
     OAMPDUs.";
}
  }
}
```

There was missing "}"

Similar to comment #35 in scope.

Cl **8** *SC* **8.5.2** *P* **147** *L* **15** # 76

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This comment is a continuation of comment 344 and others. I.e. use the proper feature.

The grouping discovery-info, leaf operational-status is:
- presented with an if-feature coupling it to the support of loopback. The set of values cover much more, e.g. disabled, link-fault, passive-wait.
Therefore the leaf should exist without if-feature.
- defined as read-write. An operational state should be read-only.
- there is a conflict between: a parameter being mandatory and having a default value.
Beside, default values only apply to read-write. Therefore tremove the statement about the implementation specific default.

SuggestedRemedy

Replace:

```
leaf operational-status {
  if-feature "remote-loopback-initiate or remote-loopback-respond";
  type operational-state;
  mandatory true;
  description
    "Operational status.
     The default value is implementation-dependent.";
  reference
    "IETF RFC 4878, dot3OamOperStatus; IEEE Std 802.3, 30.3.6.1.4,
     30.3.6.1.10, and 30.3.6.1.11";
```

By:

```
leaf operational-status {
  type operational-state;
  config false;
  mandatory true;
  description
    "Operational status.";
  reference
    "IETF RFC 4878, dot3OamOperStatus; IEEE Std 802.3, 30.3.6.1.4,
     30.3.6.1.10, and 30.3.6.1.11";
}
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **147** *L* **28** # 77

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This comment is a continuation of comment 365.
I.e. use the proper feature.

The typedef loopback-status allows to report both for the local as for the perceived remote status (initiating, local-loopback, …)

SuggestedRemedy

Replace the if-feature statement:
"if-feature "remote-loopback-initiate"
By
"if-feature "remote-loopback-initiate or remote-loopback-respond"

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **148** *L* **24** # 78

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This comment is a continuation of D2.0 comment 366.

The augment statement should be written more general in YANG 1.1 syntax.

SuggestedRemedy

Replace:

```
"  augment "/if:interfaces/if:interface" {
   when "if:type = 'ianaift:ethernetCsmacd' or if:type = 'ianaift:ptm'" {"
```

By

```
"  augment '/if:interfaces/if:interface' {
    when
      "derived-from-or-self(if:type, 'ianaift:ethernetCsmacd') or
       derived-from-or-self(if:type, 'ianaift:ptm') " {"
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **148** *L* **24** # 37

Boyd, Joey ADTRAN

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

The description says that this augments the Ethernet interface model yet just augments the generic interface list (as it should).

SuggestedRemedy

Change augment description to:

description
"Augments the interface model with nodes
specific to Ethernet Link OAM";

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **148** *L* **64** # 153

Remein, Duane Huawei

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

It strikes me as very odd to have a question as a description.

SuggestedRemedy

Change to read (observe indenting and line brakes):
"A uni-directional link-fault has been detected by the
local device.";

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #160, where "rx-fault" was removed.

Cl **8** *SC* **8.5.2** *P* **150** *L* **4** # 79

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 368.

The leaf "rx-fault" is declared mandatory. However, not all interfaces will support unidirectional link fault detection.

Therefore make the leaf optional.

SuggestedRemedy

Replace:
leaf rx-fault {
if-feature uni-directional-link-fault;
type boolean;
config false;
mandatory true;
description
By:
leaf rx-fault {
if-feature uni-directional-link-fault;
type boolean;
config false;
description

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #160, where "rx-fault" was removed.

Cl **8** *SC* **8.5.2** *P* **150** *L* **11** # 81

Trowbridge, Steve Nokia

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

simlar reasoning as for remote-error-symbol-period-log-entries

SuggestedRemedy

Add an if-feature statement:
leaf remote-error-frame-log-entries {
if-feature "link-monitoring-remote";
type yang:counter64;

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **150** *L* **18** # 82

Trowbridge, Steve Nokia

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

simlar reasoning as for remote-error-symbol-period-log-entries

SuggestedRemedy

Add an if-feature statement:

```
leaf remote-error-frame-period-log-entries {
  if-feature "link-monitoring-remote";
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **150** *L* **26** # 83

Trowbridge, Steve Nokia

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

simlar reasoning as for remote-error-symbol-period-log-entries

SuggestedRemedy

Add an if-feature statement:

```
leaf remote-error-frame-second-log-entries {
  if-feature "link-monitoring-remote";
  type yang:counter64;
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **150** *L* **37** # 84

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 350.

The major problem with issue with the current model is that there is a indication about on which interface the loopback shall be performed. This can be solved by making the rpc an action and put it inside the container 'link-oam' because then the action is executed within the context of an interface (i.e. use YANG 1.1 syntax) .

SuggestedRemedy

Update the version in git and replace the rpc by an action put inside the container link-oam. I.e. insert after page 150 line 32 (i.e. after the closing bracket of container 'statistics', BEFORE the closing bracket of line 34 (i.e; the closing bracket of container 'link-oam'.

```
action remote-loopback {
  if-feature remote-loopback-initiate;
  description
    "Start/stop remote loopback on the specified interface.";
  reference
    "IEEE Std 802.3, 57.1.2:b";
  input {
    leaf enable {
      type boolean;
      mandatory true;
      description
        "Whether to enable or disable remote loopback.";
    }
  }
  output {
    leaf success {
      type boolean;
      mandatory true;
      description
        "True if the operation was successful, false otherwise.";
    }
    leaf error-message {
      type string;
      description
        "If the operation failed, optionally used to provide extra
         details.";
    }
  }
}
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **150** *L* **50** # 155

Remein, Duane Huawei

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

We could be more informative than: "True if the operation was successful, false otherwise."

SuggestedRemedy

Change to (observe indentation and line breaks):
"True if the remote-loopback was successful,
false otherwise.";

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

This comment is against page 150, line 61.

Cl **8** *SC* **8.5.2** *P* **150** *L* **50** # 154

Remein, Duane Huawei

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

description wording:
"Whether to enable or disable remote loopback.
The default value is implementation-dependent.";

SuggestedRemedy

Change to:
"When true enables remote loopback,
When false disables remote loopback,
The default value is implementation-dependent.";

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change to:
"When true enables remote loopback.
When false disables remote loopback.";

Cl **8** *SC* **8.5.2** *P* **150** *L* **52** # 38

Boyd, Joey ADTRAN

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

As the leaf, 'enable', is mandatory, the statement about the default value does not apply.

SuggestedRemedy

Remove the last sentence in the description, "The default value is implementation-dependent."

Response *Response Status* **C**

ACCEPT.

See also comment #154.

Cl **8** *SC* **8.5.2** *P* **150** *L* **56** # 80

Trowbridge, Steve Nokia

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

This is a continuation of D2.0 comment 345 and 369. I.e. define the features per direction of the EFM OAM procedure, and couple the counters to the correct feature.

Assumption: the local counters can always be presented to the management interface, independent of whether these counters are communicated to the peer device via an Event notification OAMPDU. Therefor these counters are not coupled to a feature.
The remote counters shall be coupled to the feature "link-monitoring-remote" because if the peer device does not send the data then the local device can not report to the management system.

SuggestedRemedy

Add an if-feature statement:
leaf remote-error-symbol-period-log-entries {
if-feature "link-monitoring-remote";
type yang:counter64;"

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

This comment is on page 150, line 4.

Cl **8** *SC* **8.5.2** *P* **151** *L* **9** # 161

Anslow, Pete Ciena

Comment Type **TR** *Comment Status* **A**

The "Editorial Comment" that states that "Alignment is needed."

SuggestedRemedy

Do the necessary alignment and remove the "Editorial Comment". Until this is done, the draft is not ready to progress to Sponsor ballot (hence Required comment).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Remove editorial comment from page 151, line 9. Comment #60 resolves the necessary alignment by adding the missing features into the Link OAM module.

Cl **8** *SC* **8.5.2** *P* **151** *L* **17** # 85

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 351.

The major problem with the notification 'threshold-event' has not been solved: the notification does not identify which interface this reporting is about. This can be solved by moving the notification inside the container 'link-oam' because then the notification is sent within the context of an interface (i.e. use YANG 1.1 syntax)

SuggestedRemedy

Move the definition of the notification after page 150 line 32 (i.e. after the closing bracket of container 'statistics', BEFORE the closing bracket of line 34 (i.e; the closing bracket of container 'link-oam'.

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **151** *L* **18** # 86

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 345
I.e. split the feature for link-monitoring into one per direction, and then apply the correct feature to the corresponding data nodes.

The feature indicates the threshold-event shall be sent for 2 possible reasons:
- the local side detected a threshold crossing and sent an event-notification to the peer device
- the device received an event-notification from the peer device.
The description suggests use for only on direction: at the local side.
Assumption: feature use is correct and description needs to be modified accordingly.

SuggestedRemedy

Replace:

```
notification threshold-event {
  if-feature "link-monitoring-local or link-monitoring-remote";
  description
    "This notification is sent when a local threshold
     crossing event is detected.";
```

By:

```
notification threshold-event {
  if-feature "link-monitoring-local or link-monitoring-remote";
  description
    "This notification is sent when a local or remote threshold
     crossing event is detected.";
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **151** *L* **35** # 87

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is a continuation of D2.0 comment 352.

The major problem with the notification 'non-threshold-event' is the same as for the notification 'threshold-event' and needs to be solved in the same way. I.e. there is a notification but no indication about the interface for which the notification is applicable.
A second problem has been menioned in another comment: it contains threhold crossing related data nodes which are not applicable.

SuggestedRemedy

Move the definition of the notification after page 150 line 32 (i.e. after the closing bracket of container 'statistics', BEFORE the closing bracket of line 34 (i.e; the closing bracket of container 'link-oam'.

(To relaize it does not contain the threshold crossing related data nodes the grouping "event-details" has been split into 2 groupings.

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.2** *P* **151** *L* **35** # 88

Trowbridge, Steve Nokia

Comment Type **TR** *Comment Status* **A**

This is continuation of D2.0 comment 349.

D2.0 suggested to have a method for reseting the EFM OAM statistics but it was kept in comment so it did not exist. Having this method was/is considered useful and therefor the suggestion was to define it. From YANG syntax perspective it is suggested to define it using YANG 1.1 syntax and define it as an action.

Hereby we provide the corresponding YANG.

SuggestedRemedy

Below action to be added to efm-oam augmented table. I.e. define the notification after page 150 line 32 (i.e. after the closing bracket of container 'statistics', BEFORE the closing bracket of line 34 (i.e; the closing bracket of container 'link-oam'.

```
action reset-stats {
 description
  "Reset Ethernet Link OAM statistics on this interface";
 output {
  leaf success {
   type boolean;
   mandatory true;
   description
    "True if the operation was successful, false otherwise.";
  }
  leaf error-message {
   type string;
   description
    "If the operation failed, optionally used to provide extra
     details.";
  }
 }
}
```

Response *Response Status* **C**

ACCEPT.

Cl **8** *SC* **8.5.3** *P* **148** *L* **25** # 98

Zhuang, Yan Huawei Technologies

Comment Type **TR** *Comment Status* **A**

ianaift:ptm is not found/defined in iana-if-type in RFC 7224.

SuggestedRemedy

define a new identity for ptm as:

```
identity ptm {
  base ianaift:iana-interface-type;
  description
    "For ptm.";
  reference
    "?";
}
```

change the augmentation to:

when "if:type = 'ianaift:ethernetCsmacd' or if:type = 'link-oam:ptm'"

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Following comment #366 on D2.0 it seems that ptm interface type exists in BBF YANG modules, and if so - should be conditions as such.

PTM is defined in the latest iana-if-type module in Git, but not in IETF RFC. Hence, the reference to iana-if-type should be updated to a github link.
Suggested Remedy:
Change reference of iana-if-type reference at P133, line 34 as below:

```
import iana-if-type {
   prefix ianaift;
   reference " https://github.com/YangModels/yang/blob/master/standard/ietf/RFC/iana-if-type.yang";
}
```

Accordingly, also update the references at P28, line 43.
P45, line47.

Insert also editorial note in both locations indicating that this reference will be removed when respective RFC is published. It is currently placed into the document for the compilation of the respective module to complete successfully.

Cl **8** *SC* **8.5.4** *P* **148** *L* **25** # 99

Zhuang, Yan Huawei Technologies

Comment Type **TR** *Comment Status* **A**

missing {} and description for "when" statement.

SuggestedRemedy

change codes to:

```
when "if:type = 'ianaift:ethernetCsmacd' or if:type = 'link-oam:ptm'" {
 description "Applies to Ethernet interfaces";
  }
   description
    "Augments Ethernet interface model with nodes
     specific to Ethernet Link OAM";
```

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Change to

```
when  "derived-from-or-self(if:type, 'ianaift:ethernetCsmacd') or
      derived-from-or-self(if:type, 'link-oam:ptm')" {
   description
    "Augments Ethernet interface  or ptm.";
          }
          description "Augments Ethernet interface model with nodes
    specific to Ethernet Link OAM";
```

Note that PTM type is not defined in if:type

Cl **8** *SC* **8.5.5** *P* **151** *L* **18** # 100

Zhuang, Yan Huawei Technologies

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

feature "link-monitoring-remote" and "link-monitoring-remote" is not defined in module ieee802-ethernet-link-oam

SuggestedRemedy

remove the statement "if-feature "link-monitoring-local or link-monitoring-remote";"

Response *Response Status* **C**

REJECT.

Feature "link-monitoring-remote" and "link-monitoring-remote" are defined in #60.

Cl **about ie** *SC* **Question about ieee80** *P* *L* # 170

Seda, Marta Calix

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

I was expecting to see a more hierarchical container model for epon YANG (along the lines of how http://www.ieee802.org/3/1/public/mib_modules/20130411/802dot3dot1C9mib.txt is organized). For example:
Add a container for mpcp-control:
+-- mpcp-control
+--mpcp-admin-state?
+--mpcp-oper-status?
+--mpcp-logical-link-admin-state?, etc
+-- fec
+-- fec-mode, etc
+-- ompe-control
+-- ompe-mode, etc

SuggestedRemedy

I was surprised to see so many leaf-names at the root level. Adding containers would improve the readability of the tree. This is a stylistic comment.

Updated comment (4/25/2018)
In the attached seda_3cf_02_0518_ieee802-ethernet-pon.yang and seda_3cf_01_0518_ieee802-ethernet-pon.tree show a possible containment model you could use (so as to make it easier for users of this YANG file to find related attributes).

Response *Response Status* **C**

REJECT.

This is a personal preference - when model was more nested, concerns about too many levels of nesting were received and addressed.

Cl **ieee-802** *SC* **ieee-802-ether-pon.yan** *P* *L* # 182

Seda, Marta Calix

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

The YANG file readability could be improved by removing carriage returns after units, range, config, type statements. This is a stylist comment.

For example,
config
false;

could be changed to:
config false;

SuggestedRemedy

updated comment (4/25/2018):
The attached seda_3cf_02_0518_ieee802-ethernet-pon.yang has removed extra carriage returns to improve readability (easier to see how information is grouped together).

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Current version of all modules is consistent within the draft. Future editorial changes pre-publication may further align to any existing YANG module publication standards.

See also comment #139, 140, and 141.

Cl **ieee-802** *SC* **ieee-802-ether-pon.yan** *P* *L* # 181

Seda, Marta Calix

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

The file contains tabs. Tabs should be removed.

SuggestedRemedy

updated comment (4/25/18): the existence of tabs was noticed in the github document (the pdf file "masks" the problem). Tabs exists in lines 36-39, 1495,2460. The final version of the YANG file should remove them.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

References are to Git document, and not against the draft. Please use draft page/line numbers in the future for simpler filtering and tracking.

Tabs will be removed from the module and replaced with spaces. See also remein_3cf_3_0518.pdf with tracked changes

Cl **Inconsi** SC **Inconsistency** P L # 190
Seda, Marta Calix

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

In some cases the pdf file and the YANG files in github differ (e.g., ieee802-ethernet-interface contains a reference statement in github that is missing in the pdf).

SuggestedRemedy

It would be good to have a "single source of truth" location. I would prefer to pull the YANG files from github (than have to compare what is in the word document against what is in github and then spend time adding it to the YANG file).

Response *Response Status* **C**

REJECT.

For all 802.3 projects, published draft (and then standard) is the only normative document. Git publication is aligned to published draft (last cycle, it seems like push request did not work well, though).

Cl **Missing** SC **Missing** P L # 185
Seda, Marta Calix

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

There is no description that explains your branching philosophy. For example, if a user wants to pull the latest YANG file, should they be using the "master branch"? For amendment or corrigendums, what branch will contain the particular YANG file of interest

SuggestedRemedy

I would recommend fixing this. When I go to github, I see multiple branches. The convention that you intend to use needs clarification. For example, will the latest YANG files be in the "master" branch? What about pull requests that you may be reviewing (but haven't approved yet) (are those part of master or some other branch (say development)? After a release is approved, what branch name convention are you going to use? Is there the possibility that you may have multiple YANG versions (one for example for Issue 1; another one for Corrigendum 1, etc).

Response *Response Status* **C**

REJECT.

Git is not a normative part of the standard and provided only for convenience of publication of machine readable files. Once the standard is approved, the final versions of all 802.3.2 modules will be published under the standard branch (not draft, as published right now).

Cl **Missing** SC **Missing** P L # 187
Seda, Marta Calix

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

None of the YANG modules contain a revision.

SuggestedRemedy

I would highly recommend that the revision statement (it helps identify what revision you are dealing with). Without this information, it is difficult to discern the maturity of the YANG file. Please refer to https://tools.ietf.org/html/rfc6087#page-12 for YANG best practices to follow. Please note that pyang --lint when run against the ieee YANG files flags this as an error.

For Example,

```
 revision 2018-04-18 {
   description
     "Initial revision.";
   reference
     "IEEE Std 802.3-2018, Clause 64/77, unless dated explicitly
     IEEE Std 802.3.1-2013, Clause 9, unless dated explicitly";
 }
```

Updated comment (4/24/2018):
In the attached seda_3cf_02_0518_ieee802-ethernet-pon, this pyang error has been fixed (someone noted that I should provide more examples on how to fix this issue).

Response *Response Status* **C**

REJECT.

Per comment #372 on D2.0, all revision statements were removed until the final version of the module is published (when this standard is published).

Cl **Missing** SC **Missing** P L # 189
Seda, Marta Calix

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

The github repository contains the YANG files and the pdf file contains the tree and YANG code.

SuggestedRemedy

It would be helpful to put the YANG tree along with the YANG code. Otherwise one has to run pyang to derive the YANG tree. In most cases a developer will prefer to use YANG files instead of the pdf file.

Response *Response Status* **C**

REJECT.

Git repository will accept only YANG modules, not trees.

Cl **Missing** *SC* **Missing** *P* *L* # 180

Seda, Marta Calix

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

802.3.1 dot3RecognizedMulticastIDsTable/dot3RecognizedMulticastID is missing.

SuggestedRemedy

updated comment (4/25/18):
the attached seda_3cf_02_0518_ieee802-ethernet-pon.yang line 1075-1087 fixes this issue.

Response *Response Status* **C**

ACCEPT.

Comment type was changed from E to T

Cl **Missing** *SC* **Missing** *P* *L* # 176

Seda, Marta Calix

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

802.3.1 dot3ExtPkgControlTable/dot3ExtPkgObjectRegisterAction is missing.

SuggestedRemedy

Updated comment (4/25/18):

In the SNMP model, you could set a virtual interface to register/re-register/de-register. In the YANG model it is unclear how you do this. mpcp-logical-link-admin-state is read/write leaf that uses the mpcp-logical-link-admin-state typedef. Within the mpcp-logical-link-admin-state leaf, there are descriptions on how to "set" the powerup/down action. The registration actions are listed as read only. It seems that a netconf action would be more appropriate to request that you want to register, re-register or de-register an interface. If the interface can't honor that request, the netconf command is rejected.

For your convenience, seda_3cf_02_0518_ieee802-ethernet-pon.yang line 2223-2235, 365-388, and seda_3cf_01_0518_ieee802-ethernet-pon.tree line 91-93 proposes the support of netconf actions for registration actions of the interfaces.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Use seda_3cf_02_0518_ieee802-ethernet-pon.yang line 2218-2235, 365-388, and seda_3cf_01_0518_ieee802-ethernet-pon.tree line 91-93 for the support of netconf actions for registration actions of the interfaces.

Implement together with comment #183.

Cl **Missing** *SC* **Missing** *P* *L* # 175

Seda, Marta Calix

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

802.3.1 dot3ExtPkgControlTable/dot3ExtPkgObjectPowerDown object is missing.

SuggestedRemedy

Updated comment (4/25/18):
It is unclear how you set the interface to power down or up in the current YANG. mpcp-logical-link-admin-state is read/write leaf that uses the mpcp-logical-link-admin-state typedef. Within the mpcp-logical-link-admin-state leaf, there is a description that "when you set operational or disable state" that you cause these events to occur. That is a problem in itself because you have defined mpcp-logical-link-admin-state to be an enum (you can only have those choices at a time). So what if I wanted to have the interface in power-up state and register it as well? It seems that a netconf action would be more appropriate to indicate that you want the interface to power down or go back to the operating state. If the interface can't honor that request, the netconf command is rejected.

seda_3cf_02_0518_ieee802-ethernet-pon.yang line 2197-2209, 318-344, and seda_3cf_01_0518_ieee802-ethernet-pon.tree line 85-87 proposes the support of netconf actions to power-up and power-down the interfaces.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Use seda_3cf_02_0518_ieee802-ethernet-pon.yang line 2192-2204, 318-344, and seda_3cf_01_0518_ieee802-ethernet-pon.tree line 85-87 provides the support of netconf actions to power-up and power-down the interfaces.

Implement together with comment #183.

Cl **Missing** *SC* **Missing** *P* *L* # 171

Seda, Marta Calix

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

Other sections of the pdf document text map the YANG objects to the 802.3 MIB objects. The section on epon doesn't include such table (I would think it would be helpful to include for developers who already implemented EPON SNMP).

SuggestedRemedy

Add a table that maps the YANG containment/leaves to the SNMP MIB.

Updated comment (4/25/18):
For your convenience, seda_3cf_03_0518_YANG-SNMP_Mapping shows the YANG to SNMP mappings.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Use seda_3cf_03_0518_YANG-SNMP_Mapping to source information for adding a table of Clause 30/MIB <> YANG mapping for EPON Clause.

Cl **Missing** *SC* **Missing** *P* **98** *L* **29** # 173

Seda, Marta Calix

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

802.3.1 dot3OmpEmulationTable/ONUPONcastLLID and OLTPONcastLLID is not supported.

SuggestedRemedy

Updated comment (4/24/18)
For your convenience, the attached seda_3cf_02_0518_ieee802-ethernet-pon.yang and seda_3cf_01_0518_ieee802-ethernet-pon.tree has has added these two missing counters. The appear in seda_3cf_02_0518_ieee802-ethernet-pon.yang in lines 1551 through 1607, and in seda_3cf_01_0518_ieee802-ethernet-pon.tree on lines 52 & 53.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Use seda_3cf_02_0518_ieee802-ethernet-pon.yang lines 1551 through 1607, and in seda_3cf_01_0518_ieee802-ethernet-pon.tree on lines 52 & 53 for reference.

Implement together with comment #183.

Cl **pyang e** *SC* **pyang errors** *P* *L* # 188

Seda, Marta Calix

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

The github repository (https://github.com/YangModels/yang/blob/master/standard/ieee/802.3/draft/ieee802-ethernet-interface.yang) seems to have some formatting issues.
1) Line 40-45, seems to have extra spaces or tabs (unexpected aligning).
2) if you run pyang --lint against the files, I am getting some minor errors.
3) if you run pyang --max-line-length=70, there are many lines that exceed the recommended 70 characters. (BBF uses 70 as max line length)

SuggestedRemedy

Before publishing a standard, please make sure that you are not getting tool errors (the errors I am seeing are minor).

Updated comment (4/24/2018):
In the attached seda_3cf_02_0518_ieee802-ethernet-pon, the pyang errors have been fixed.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Make sure that Git published documents reflect the latest published version of the draft.

Cl **updated** *SC* **updated comment** *P* *L* # 179

Seda, Marta Calix

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

802.3.1 dot3ExtPkgOptIfTransmitAlarm is missing.

SuggestedRemedy

updated comment (4/25/18)
IETF is working on an alarm module. You may want to think about how you want this netconf alarm to be represented relative to that module (e.g., what base notification identity to use). I don't have a good solution for this (you could add to the ieee text the alarm notifications that need to be supported.

Response *Response Status* **C**

REJECT.

No specific suggested remedy is present. A commnter is encouraged to provide a proposed set of changes when the said alarm module becomes available.

Cl **updated** *SC* **updated comment** *P* **104** *L* **14** # 178

Seda, Marta Calix

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

Container statistics-trx is missing a suspected flag attribute.

SuggestedRemedy

updated comment (4/24/18):
Eventually I found where the suspect flag went. It got mapped to trx-data-reliable. trx-data-reliable needs to be moved within container statistics-trx.

The attached seda_3cf_02_0518_ieee802-ethernet-pon.yang (line 2021-2034) and seda_3cf_01_0518_ieee802-ethernet-pon (line 75) show examples of how this could be fixed.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Use seda_3cf_02_0518_ieee802-ethernet-pon.yang (line 2021-2034) and seda_3cf_01_0518_ieee802-ethernet-pon (line 75) for the fix.

Implement together with comment #183.

Cl **YANG fi** *SC* **YANG file names** *P* *L* # 168

Seda, Marta Calix

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

If you look at the file naming convention of other SDOs, it uses the convention <sdo>-<whateverthis is about>.yang. All IEEE Github files start with ieee802 (in the 802 folder). Likewise in the 801 folder, the file prefix is ieee801.

SuggestedRemedy

Could the YANG file names follow conventions used by other SDOs? (rename them ieee-802-…). (add a "-" between ieee and 802). That would align the convention with the file naming conventions of IETF and BBF.

Response *Response Status* **C**

REJECT.

This is the approved naming convention for all 802 YANG modules.

Cl **YANG p** *SC* **YANG prefixes** *P* *L* # 169

Seda, Marta Calix

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

There is a recommendation in IETF YANG best practices that the prefix start with the <SDO> name (e.g., ieee-eth-pon). In searching through your YANG files, it looks like you don't follow that.

(see https://tools.ietf.org/html/draft-ietf-netmod-rfc6087bis-20#page-18):
It is suggested that a stable prefix be selected representing the entire organization. All normative YANG modules published by the IETF MUST begin with the prefix "ietf-". Another standards organization, such as the IEEE, might use the prefix "ieee-" for all YANG modules.

SuggestedRemedy

I have to note that while IETF states this in their best practices, they don't enforce it in their YANG files. BBF on the other hand does enforce that rule and uses bbf-<feature> as prefixes. This is a stylistic comment.

Response *Response Status* **C**

ACCEPT IN PRINCIPLE.

Comment type was changed from E to T

Add "ieee802-" to all prefixes in all YANG modules, all locations where prefixes are defined or referenced.