P802.3.1/D1.2 MIB modules for Ethernet comments

Cl **00** *SC* **0**   *P* **0** *L* **0**   # 1

Hajduczenia, Marek   ZTE Corporation

Comment Type **E** *Comment Status* **X**

"taskforce" should be spelled "Task Force"

SuggestedRemedy

Scrub the draft accordingly, there are multiple locations where this problem occurs.

Proposed Response *Response Status* **O**

Cl **00** *SC* **0**   *P* **0** *L* **0**   # 2

Hajduczenia, Marek   ZTE Corporation

Comment Type **E** *Comment Status* **X**

There are multiple cross references in this document. Even though it is not mandatory to make them into live links, it would help a reader to move between different locations within this draft. External links should be marked accordingly (e.g. red or green or any other colour of choice).

SuggestedRemedy

Per comment

Proposed Response *Response Status* **O**

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

Hajduczenia, Marek   ZTE Corporation

Comment Type **E** *Comment Status* **X**

Each sentence is terminated with a double space. Even though it is not an error in style, it is suggested that a single space is used, similar to remaining 802.3 drafts.

SuggestedRemedy

Per comment

Proposed Response *Response Status* **O**

Cl **10** *SC* **10.1.2.1**   *P* **157** *L* **33**   # 4

Hajduczenia, Marek   ZTE Corporation

Comment Type **T** *Comment Status* **X**

This proposed text replaced the contents of 10.1.2.1

SuggestedRemedy

"The EPON standard, now part of IEEE Std 802.3™-2008, defines the physical media (Layer 1) and media access (Layer 2) of EPON interfaces. EPON is a variant of Gigabit Ethernet used in optical access. The Passive Optical Network (PON) is comprised of sections of SMF connected with passive optical splitter / coupler devices, forming a passive optical tree, as shown in Figure 10-1. Individual branches of the PON are terminated with the Optical Line Terminal (OLT) on the side of the Central Office and Optical Network Units (ONUs) on the side of subscribers. ONUs can be located either in some remote location (e.g. basement in a multi dwelling unit) or directly at the subscriber premises. Various types of Customer Premises Equipment (CPE) can be connected to ONUs or even integrated with such devices.
Figure 10-1 presents the resulting PON topology."

Proposed Response *Response Status* **O**

Cl **10** *SC* **10.1.2.1**   *P* **157** *L* **64**   # 5

Hajduczenia, Marek   ZTE Corporation

Comment Type **TR** *Comment Status* **X**

These comments are against Figure 10-1:
(1) There is no splitter identified in this figure
(2) what is "EPON modem" ? Should be identifies as ONU
(3) It would make sense to show SFU and MDU ONU types
(4) What is OLT interface and ONU interface? They should be marked as "EPON interface"
(5) "Other IEEE interface" shoudl read "Other IEEE interfaces" - typically a number of them is available.

SuggestedRemedy

Per comment.

Proposed Response *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Comment ID # **5**

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Cl **10**   *SC* **10.1.2.1**   *P* **158**   *L* **5**   # 6
Hajduczenia, Marek   ZTE Corporation

Comment Type   **ER**   *Comment Status*   **X**
(1) The list in lines 5 - 21 should be bulleted accordingly.
(2) Make sure that the word "Clause" is capitalized when meaning 802.3 clause.

SuggestedRemedy
Per comment

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.1.2.2**   *P* **158**   *L* **26**   # 7
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
This proposed text replaced the contents of 10.1.2.2

SuggestedRemedy
"The EPON interface specification extends the specification of Gigabit Ethernet as
described in IEEE Std 802.3™-2008 Clause 35 and Clause 36. The Ethernet MAC
operates at the data rate of 1 Gb/s and it is connected to media dependent interface
through the GMII interface, as described in Clause 35. The EPON PCS layer extends the
Gigabit Ethernet PCS as described in Clause 36. New, EPON specific layers are added to
Gigabit Ethernet layers in the following locations:
*MPCP is placed in the MAC control layer, providing EPON media access, station
discovery and registration protocol.
*functionality of the Reconciliation Sublayer (RS) of Gigabit Ethernet was extended,
creating logical links over shared passive optical medium, providing private transmission
channels to each of the connected ONU.
*FEC functionality located between the PCS and PMA layers was added, extending the
Gigabit Ethernet PCS layer, enhancing reach and split performance of the EPON optical
link.
Figure 10-2 presents the EPON layering model."

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.1.2.3**   *P* **158**   *L* **43**   # 8
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
This proposed text replaced the contents of 10.1.2.3

SuggestedRemedy
"The physical link in EPON comprises SMF. The OLT and ONUs are connected through a
passive optical network comprising sections of SMF interconnected with passive splitter /
coupler devices.
The term <i>downstream</i> denotes transmission from the OLT to all connected ONUs,
while the term <i>upstream</i> denotes transmission from the connected ONUs (one at
the time) to the OLT. Upstream and downstream transmissions are wavelength division
multiplexed (WDM) into a single SMF strand, sharing the same physical link.
In downstream, the transmission channel is available to the OLT all the time, thus Time
Division Multiplexing (TDM) is used. OLT broadcasts data to all ONUs at the same time,
using inherent properties of the underlying physical channel. Individual ONUs filter data
from the broadcast transmission based on the logical link identifiers (LLID) assigned to
them during the registration and discovery process.
In upstream, the physical channel is shared among a number of connected and registered
ONUs using the Time Division Multiple Access (TDMA). Access to upstream channel is
controlled via the Multi-Point Control Protocol (MPCP), where the OLT plays the role of the
master and ONUs play the role of slave devices. An ONU upon registration remains silent
until registered and once registered, it transmits data towards OLT only when granted a
transmission opportunity (slot)."

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.1.2.4**   *P* **158**   *L* **58**   # 9
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
This proposed text replaces the contents of 10.1.2.4

SuggestedRemedy
The EPON PMD specifications are based on a wavelength plan similar to that used by [ITU-
T.G.983]. The OLT and ONU transceivers were derived from the existing Gigabit Ethernet
optical transceivers, providing WDM capabilities and adding burst mode operation
capability for ONU transmitters and OLT receiver.
The uplink burst mode operation capability corresponds directly to the TDMA operation in
upstream, where queued data is burst from individual ONUs at full data rate for the
duration of the allocated transmission slot. Once completed, the ONU goes silent and
another ONU starts transmitting its data.
IEEE P802.3ah Task Force selected very relaxed burst parameters to reduce the cost of
EPON devices and facilitate development process.

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
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Comment ID # **9**   1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.1.2.4**   *P* **159**   *L* **1**   # 10

Hajduczenia, Marek   ZTE Corporation

Comment Type **TR**   *Comment Status* **X**

This comments are against Figure 10-2:
(1) What is this "*new*" and what it is supposed to represent ?
(2) "*Enhanced parameters for EPON*" shoudl read "EPON-specific extensions to Gigabit Ethernet" - perhaps mark that using */** system and provide description below the figure.
(3) FEC is not mandatory in EPON - mark it as optional
(4) FEC is not a sublayer - it is PCS function - see how markiung was done in 802.3ah draft.
(5) Names of all acronyms are expanded in Capitals below figure 10-2 - FEC is not. Why ?

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.1.2.5**   *P* **159**   *L* **36**   # 11

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

This proposed text replaces the contents of 10.1.2.5

SuggestedRemedy

The downstream is a broadcast medium, which means that all data transmitted by the OLT is received by all connected ONUs. In order to guarantee compliance of EPON with Ethernet architecture, P2PE function was included in RS, creating a series of logical links between the OLT and connected ONUs. An additional broadcast link is also provided for delivery of any broadcast content. In this way, EPON becomes a collection of logical P2P connections established between the OLT and the ONUs. Therefore, the OLT can be seen as an Ethernet device with N+1 logical ports (N P2P logical interfaces and 1 broadcast interface, where N designates the number of connected ONUs).
Logical links provide also a solution for data privacy, which otherwise would be shared by all subscribers connected to a single OLT port. In this way, each subscriber is isolated and restricted to accessing data streams addressed only to that particular subscriber.
This concept is illustrated in Figure 10-3, which shows an examples of an EPON with a single OLT and 3 connected ONUs.
The single copy broadcast channel (addressed with a special, reserved LLID) was added to take advantage of the broadcast transmission capability of the underlying physical medium. In this way, it is very simple and very bandwidth efficient to deliver broadcast contents to all ONUs at the same time, avoiding the need to replicate data into a series of P2P links.
The ONUs filter all downstream data and drop all frames addressed to other devices. Only broadcast frames and frames with correct unicast logical address (LLID) are admitted and processed. The LLID address (LLID tag) comprises part of the extended Ethernet frame preamble, identifying a logical link established between the OLT and the given ONU during the discovery and registration process. The LLID marks the destination port in the downstream and source port in the upstream. The logical links are used effectively to prevent EPON from violating the [802.1d] bridging rules.

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.1.2.5**   *P* **160**   *L* **37**   # 12

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"Virtual tunneling for an OLT with 3 ONUs" > "The concept of logical links for an EPON with an OLT with 3 ONUs"

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
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Comment ID # **12**   1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.1.2.6**   *P* **160**   *L* **41**   # 13

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**

This proposed text replaces the contents of 10.1.2.6

SuggestedRemedy

The EPON standard comprises a mechanism for media access control, referred to as Multi Point Control Protocol (MPCP). An access network architecture is different from a typical LAN environment, primarily in terms of network provisioning. An access network is an administrated environment, with an operator providing services and subscribers consuming it depending on service provisioning contracts. The operator controls the network and manages traffic, medium access and enforces the SLAs. For instance, the available bandwidth is controlled and subscribers are billed for services. In this sense, the access network (and EPON specifically) requires a media access control protocol, providing mechanism for station discovery and registration as well as bandwidth provisioning capabilities.

In the MPCP plane, the OLT is considered to be the master, controlling a series of connected ONUs (slave devices). The OLT (network master) manages the network and controls access to network resources to individual slave devices. The MPCP is also used for provisioning upstream channel access to individual slave devices via a MPCPDU pair i.e. GATE and REPORT. The MPCP is part of the MAC control layer and MPCPDUs are considered MAC control messages, carrying a specific Ethertype of 0x8808. These messages are not forwarded outside of the EPON domain and are used to manage the EPON link only.

A concept of time must exist in the MPCP plane in order to schedule the uplink transmission. A timestamp, which is transmitted in the MPCPDUs downstream by the OLT and retrieved by the connected ONUs, is used to synchronize slave devices to master device clock. This guarantees that upstream transmissions from individual ONUs arrive at the OLT at the precisely anticipated time, which in turns guarantees that data from different ONUs will not overlap.

The MPCP plane is also used to measure the Round Trip Time (RTT) for each connected ONU. Each MPCPDU carries a generalized timestamp field, which is filled in by the transmitting station with the current value of its MPCP clock at the time when the given MPCPDU is transmitted. The RTT is measured first during the discovery and registration process and then updated regularly upon each exchange of MPCPDUs between the OLT and one of the ONUs. RTT is used by the OLT bandwidth scheduler to schedule upstream transmission slots for individual ONUs in a non-overlapping manner. The EPON standard provides support for the network diameter (distance between the OLT and the farthest ONU) of up to 20 km, which corresponds to the RTT of approximately 200 us. Nothing in the EPON standard precludes however support for larger network diameters.

The TDMA control is performed using the par of MPDPUs, namely GATE generated by the OLT to indicate a future transmission opportunity to an ONU and REPORT generated by the ONU with information on the current queue status (bandwidth demand). Internal structure and possible encoding of GATE and REPORT MPCPDUs are defined in Clause 64 in IEEE Std 802.3™-2008.

A scheduling algorithm at the OLT, which is not defined in IEEE Std 802.3, is responsible for dividing the BW and controlling the transmission delay of each ONU according to its SLA. The MPCP defines a closed loop operation in order for this algorithm to be efficient.

The MPCP allows the ONUs to report on the amount of BW they require for transmission using a special REPORT message. This allows allocating BW to an ONU only when requested, relying on the statistical burst property of the traffic, and allowing different peak BW for different ONUs at different times; hence, allowing oversubscription of the BW. The REPORT message reports the amount of data waiting in the ONU queues.

In addition, the MPCP defines a protocol of auto-discovery and registration of ONUs. The MPCP registration process is presented in Figure 10-4, while details are described in Clause 64 in IEEE Std 802.3™-2008.

A new ONU requests to register during a special upstream window (called Discovery Window), sending the REGISTER_REQ MPCPDU. More than one ONU may attempt registration during that window, which means that their REGISTER_REQ MPCPDUs can potentially collide at the OLT receiver, since the ONU-specific RTT is not yet known and transmissions from individual ONUs cannot be scheduled in an non-overlapping manner. A random backoff mechanism was therefore developed and it used to increase the registration success probability.

When the OLT receives a REGISTER_REQ MPCPDU from an ONU, decision on registration is taken and the LLID is assigned to that ONU. Next, the OLT sends a REGISTER MPCPDU to that ONU, informing the given slave device on whether it is admitted to network or not. The registration process is completed with the ONU sending REGISTER_ACK MPCPDU to the OLT, confirming assigned parameters and registration in the network. From that point onwards, the OLT can schedule transmissions from that ONU using its LLID, using the measured RTT to guarantee that its transmissions do not collide with other ONUs.

Any implemented higher layer protocols may be needed to authenticate the ONU and allow it to participate in the network. This is however implementation dependent and out of scope of the EPON standard.

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.1.2.6**   *P*   *L*   # 14

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**

This comment is about Figure 10-4. A new figure should not be drawn, if there is already a figure in place which can be reused. Not sure also why we need this figure at all, given that this draft does not define MPCP at all, but provides outline of EPON operation.

SuggestedRemedy

Figure 10-4 should be replaced with Figure 64–14 from 802.3-2008. At best remove the figure and reference to it altogether, Provide reference to Clause 64 at best.

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
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Comment ID # **14**   1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.1.2.7**   *P* **161**   *L* **61**   # 15

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

This proposed text replaces the contents of 10.1.2.7

SuggestedRemedy

The optional FEC mechanism is defined to enhance the EPON link budget. All the passive components of the fibre plant attenuate optical signal, thus the target distance (network diameter) and the number of supported splits is limited by the available link budget. The optional FEC mechanism increases the available link budget, effectively increasing the target network diameter and/or split ratio. The target use of the increased power budget remains at the sole discretion of the network architects and is out of the scope of the EPON standard.

The optional FEC code used in EPON is the RS(239,255,8), similar to the FEC code defined in [ITU-T.G.975], improving the link BER from 10-4 to 10-12, which is the target BER at the MAC layer.

The optional FEC used in EPON is frame-based, meaning that parity information is added at the end of each Ethernet packet. Extra space between individual Ethernet packets is guaranteed by the MAC rate adaptation function, while extra idle symbols were replaced within the FEC function.

The start and end of packet codewords also define the FEC boundaries, and they are outside the FEC protection, they are replaced by a series of symbols to reduce their vulnerability to link errors.

Figure 10-5 presents a structure of a FEC-protected EPON frame.

The optional FEC function is added to the extended Gigabit Ethernet PCS per definitions, per 65.2 in IEEE Std 802.3™-2008. The added, optional FEC function introduces a fixed delay in receive path and transmit path.

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.1.3**   *P* **162**   *L* **32**   # 16

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

This proposed text replaces the contents of 10.1.3 on page 162 and line 36 on page 163.

SuggestedRemedy

All of the EPON layers are accompanied by a management interface that is controlled through mechanisms defined in Clause 30 of IEEE Std 802.3™-2008. Since IEEE Std 802.3™-2008 specifications may be used for different applications (and hence are extensible), and some of the clauses may be used separately, the management clause allocates a separate package for each independent layer. The structure of the MIB clause follows this separation.

Figure 10-6 presents the relation of the MIB groups to the individual IEEE Std 802.3™-2008 layers.

The association is straightforward for the ONU interface. There is one logical and one physical interface, and a single copy of each layer can be remotely queried by the OLT. The OLT has a single physical interface and N logical interfaces, one for each logical link connected to an ONU. There is also one logical interface for the single copy broadcast link. Per layering diagram in Figure 10-6, the MAC layer is virtually replicated. Therefore, in this Clause it was elected that management of logical interfaces is performed in the manner identical to management of any physical interfaces - an interface index is allocated for each one of the logical links, and an additional interface index is allocated for the OLT.

To illustrate the interface modelling scheme, consider two types of devices.

The first device has two physical interfaces, it is typically located at a subscriber site, and referred to as an "ONU modem".

An "ONU modem" is shown in Figure 10-7.

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.1.3**   *P* **163**   *L* **45**   # 17

Hajduczenia, Marek   ZTE Corporation

Comment Type **TR**   *Comment Status* **X**

This comment is about Figure 10-7.
(1) "ONU interface" should be replaced with "EPON interface"
(2) "10 megabit interface" should be replaced with "Subscriber side interface(s)"
(3) "ONU modem" should be surrounded in quota

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
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Comment ID # **17**   1/22/2010 2:09:02 PM

Cl **10**　　*SC* **10.1.3**　　　　　　　*P* **163**　　*L* **50**　　　　# 18
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**TR**　　　*Comment Status*　**X**
The indices for "ONU modem" are kind of misterious
(1) What is the "ONU interface" ?
(2) What is the "optical interface" ?
(3) Why do you assume that an ONU has 10BASE-T interface on the customer side? Make it a generic "Subscriber-side interface"

SuggestedRemedy
Please clarify per comment

Proposed Response　　　*Response Status*　**O**

Cl **10**　　*SC* **10.1.3**　　　　　　　*P* **163**　　*L* **64**　　　　# 19
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**X**
Description of the headend on pages 163 - 164 is unclear and is missing even basic formatting. Please put it in order.
Text needs editorial revision for clarity durign the meeting

SuggestedRemedy
Per comment

Proposed Response　　　*Response Status*　**O**

Cl **10**　　*SC* **10.1.3**　　　　　　　*P* **162**　　*L* **54**　　　　# 20
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**TR**　　　*Comment Status*　**X**
Information included in the illustrative example spanning page 162, line 54 to page 164, line 55 should be moved to an informative annex if there is need for this material at all. I find this desciption confusing at best and irrelevant for the standard itself.

SuggestedRemedy
Per comment

Proposed Response　　　*Response Status*　**O**

Cl **10**　　*SC* **10.2**　　　　　　　*P* **165**　　*L* **19**　　　　# 21
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**T**　　　*Comment Status*　**X**
What are "IEEE 802.3 Point-to-Multipoint (P2MP) interfaces" ? Do you mean EPON interfaces? Why not call them out directly?

SuggestedRemedy
Per comment.

Proposed Response　　　*Response Status*　**O**

Cl **10**　　*SC* **10.2**　　　　　　　*P* **165**　　*L* **23**　　　　# 22
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**ER**　　　*Comment Status*　**X**
"Multi-Point Control Protocol (MPCP)" - MPCP has been defined already several times before. Please check the definition of acronyms throughout the draft, make sure they are defined on their first use and if some of them are used extensively, consider adding them to Clause 4 into proper location. Repeated redefinition is confusing and gives the idea you use the same acronym to mean different things.

SuggestedRemedy
Per comment.

Proposed Response　　　*Response Status*　**O**

Cl **10**　　*SC* **10.2**　　　　　　　*P* **165**　　*L* **23**　　　　# 23
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**ER**　　　*Comment Status*　**X**
The list starting in line 23 seems to have second level bullets wrong - all seem to start with i) and not correct value.
First level bullets could be numbered and second level bullets lettered.
The list in the current form is unreadable.

SuggestedRemedy
Per comment

Proposed Response　　　*Response Status*　**O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected　　RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
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Comment ID #　**23**　　1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.2**   *P* **166**   *L* **13**   # 24

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"For example, provided below are the values of the MPCP control table of an OLT with 3 registered ONUs:
The table below presents the MPCP control table of ONU1 in working mode. A single row exists in the table. "
This text is circular and should be prunned.
Suggest "Table 10-1 presents an example of the MPCP control table of an OLT with 3 registered ONUs, with a single row "
Additionally, does this table present an ONU or an OLT with an ONU? The description seems not to match the contents of the table.

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.2**   *P* **166**   *L* **8**   # 25

Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **X**

"and neat to " - standard should not use such statements. Remove "and neat" - it is meaningless when coming after the statement of "convenient".

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.2**   *P* **166**   *L* **51**   # 26

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"OLT_MAC_Address is the MAC address of the OLT EPON interface.
The creation of the rows of the ONU interface is done at initialization.
For example, provided below are the values for the MPCP control table of the ONU, after initialization, before registration.
The table below presents the MPCP control table of ONU1 after initialization. A single row exists in the table.
The table below presents the MPCP control table of the OLT in working mode. Three rows exist in the table associated with the virtual links."
Several comments:
- If you mention one of the parameters, it would be nice to describe others as well, at least mention where they are defined
- The three last sentences are confusing - which table they refer to ? 10-2 ? Why not mention it for clarity ?
- Table 10-2 os mentioned as pertaining to OLT, while entry is marked as ONU - is this correct? Also, some three rows for virtual links are mentioned, while table contains several rows, though all pertataining to one and the same ONU (seemingly).

SuggestedRemedy

Clarify the questions and improve the quality of the text

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.2**   *P* **167**   *L* **32**   # 27

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

Table 10-3 is not mentioed anywhere in the text before or after its location. Please provide the accompanying text and a reference as required.
Description of some of the parameters under this table should be done consistently i.e. all parameters should be mentioned
Also, all ONU entries are marked as registered. Why not vary the example and show e.g. one ONU as registered and another one as registering?

SuggestedRemedy

Per comment. Provide clarification to the given questions.

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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Comment ID # **27**   1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.2**   *P* **168**   *L* **14**   # 28
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
What is the relationship between table 10-3 and 10-4?

SuggestedRemedy

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.3.1**   *P* **168**   *L* **64**   # 29
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
"EPON interface is a kind of Ether-like interface. This MIB module extends the objects of the Interface MIB and the Ether-like Interfaces MIB for an EPON type interface."
Comments:
- EPON is an type of Ethernet interface and not Ethernet-like. If it was Ethernet-like, it would not be part of 802.3 standard
- the second sentence should read "This MIB module extends the objects of the Interface MIB and the Ether-like Interfaces MIB for the EPON type interface."

SuggestedRemedy
Per comment

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.3.1**   *P* **169**   *L* **12**   # 30
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
"In this clause, there is no replication of the objects from these MIBs. Therefore, for instance, the clause is defining dot3MpcpRemoteMACAddress only while assuming that the local MAC address object is already defined in [RFC3635]."
Probably you do not mean replication but redefinition - it seems that you mandate for objects to be defined in only one location. Is that a correct interpretation of the text? Consider revision accordingly to clarify this in either case.

SuggestedRemedy
Per comment

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.3.1**   *P* **169**   *L* **17**   # 31
Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status*   **X**
"The interface MIB module [RFC2863] defines the interface index (ifIndex). Interface Index, as specified in [RFC2863], is used in this MIB Module as an index to the EPON MIB tables. The ifIndex is used to denote the physical interface and the virtual link interfaces at the OLT. The OLT interface and the virtual link interfaces are stacked using the ifStack table defined in [RFC2863], and the ifInvStack defined in [RFC2864]. The OLT interface is the lower layer of all other interfaces associated with the virtual links."
THis is an introductory text, which should have been location somewhere much earlier in the clause, since it explains what the ifIndex is and how it relates to individual RFCs. Consider reorganizatio of the clause and introduction of this descriptive text at the beginning of the clause 10.

SuggestedRemedy
Per comment

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.3.1**   *P* **169**   *L* **29**   # 32
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**
"Please note that each virtual interface does not have a different physical MAC address at the OLT, as the physical interface is the same. It is specified in the IEEE Std 802.3ah, Section 64.1.2. The corresponding object of the Ether-like interface MIB is duplicated for all the virtual interfaces."
Text is a little bit confusing and additionally makes reference to obsoleted standard i.e. 802.3ah.

SuggestedRemedy
Consider revising to read "Please note that all virtual interfaces have the same physical MAC address at the OLT, since the physical OLT interface used by all virtual interfaces is the same. The value of this physical MAC interface is specified in 64.1.2 in IEEE Std 802.3-2008. The corresponding object of the Ether-like interface MIB is replicated for all the virtual interfaces."

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied   Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **32**   1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.3.1**   *P* **169**   *L* **34**   # 33

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status* **X**

"For example, the values of the Interface MIB objects are presented in the following tables, for an OLT with 3 registered ONUs:
The table below presents the objects of the Interface MIB of an ONU in working mode."
It is not clear, again, which table is referenced. Also consider the introductory text in the following form "An example of the values of the Interface MIB objects are presented in the following tables is presented in Table 10-XX through Table 10-YY. Table 10-5 presents the objects of the Interface MIB of an ONU in working mode."
It would be also good to present in what way Table 10-5 is related for the following tables.

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.3.1**   *P* **170**   *L* **1**   # 34

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status* **X**

Table 10-5 contains a number of constants / variables e.g. ONU_octets_number, which are not defined anywhere. Please either provide their definition ./ description, or indicate what their meaning is. Otherwise, it is not clear what some of the MIB entries represent.

SuggestedRemedy

Per comment.

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.3.1**   *P* **171**   *L* **4**   # 35

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status* **X**

What is the difference (functional) between Table 10-5 and Table 10-6? Is the ONU presented as an example in a different operational mode?

SuggestedRemedy

Per comment - please indicate clarly what the difference between both tables is.

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.3.1**   *P* **172**   *L* **64**   # 36

Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status* **X**

Not entirely sure what the data format should be for the list of values in ifStackTable on page 172 and 173. Seems hard to read now - are the bullets lost during conversion ?

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.3.2**   *P* **174**   *L* **52**   # 37

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status* **X**

"The MAU types of the EPON Interface are defined in the amended MAU MIB clause" - which clause and where is this clause located? Reference please

SuggestedRemedy

Marek

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.3.3**   *P* **175**   *L* **7**   # 38

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status* **X**

"The EPON interfaces are aimed to the optical access networks and most probably will be accompanied with the implementation of the OAM section of the IEEE Std 802.3. Therefore, the EFM OAM MIB module [RFC4878] MAY be implemented when this MIB module is implemented defining managed objects for the OAM layer that are complementary to the EFM EPON MIB module."
Some comments:
- What does this mean that they are "aimed to the optical access networks" ? Do you mean their intended use is in the optical access networks?
- why is "MAY" capitalized ? This is not RFC not BBF document - there are multiple locations in the document where key words like "MAY". "MUST", "SHOULD" are capitalized without the need - this is not consistent with the IEEE standard manual.
- The OAM section in IEEE 802.3-2008 is very specific - provide reference to it.

SuggestedRemedy

Per coomment

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **38**   1/22/2010 2:09:02 PM

Cl **10**   *SC* **10.3.3**   *P* **175**   *L* **13**   # 39

Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **X**

"for each Logical Link Identifier (LLID) of the EPON" - LLID has been already used before without being defined.

SuggestedRemedy

LLID is defined before, no need to do it again.

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.3.4**   *P* **175**   *L* **20**   # 40

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"Bridge functionality is specified at [802.1d]. "
should read
"Bridging functionality is specified in IEEE Std. 802.1d". Year of release is needed.

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.4**   *P* **175**   *L* **38**   # 41

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"This section contains the mapping between the managed objects defined in this clause and the attributes defined in clause 30. The tables are divided into relevant groups. "
- Where are the said tables?
- which managed objects and in what clause? Clause 10?
- Clause 30 in what document? 802.3 ?

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.5**   *P* **177**   *L* **50**   # 42

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"dot3EponFecBufferHeadCodingViolation" does not have IEEE 802.3 attribute associated with it - is this intentional? If so, please N/A in the respective entries to indicate that this is intentional and not accidental.

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

Cl **10**   *SC* **10.6**   *P* **177**   *L* **63**   # 43

Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **X**

On page 177, line 63, a list starts which is not bulleted.

SuggestedRemedy

Please bullet the list since it is not readable

Proposed Response   *Response Status* **O**

Cl **11**   *SC* **11.2**   *P* **223**   *L* **40**   # 44

Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**

"The definitions presented here are based on Section 30, "10 Mb/s, 100 Mb/s 1000 Mb/s and 10 Gb/s Management", and Annex 30A, "GDMO Specification for 802.3 managed object classes" of IEEE Std. 802.3."
Previous clauses use references to clauses in 802.3 and do not mention the complete name of the given clause. I do not think there is need to reproduce it as well in here.

SuggestedRemedy

Per comment

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **44**   1/22/2010 2:09:02 PM

Cl **11**   *SC* **11.2**   *P* **223**   *L* **51**   # 45

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**

" by objects defined in this memo. Among the attributes represented by objects defined in
other memos are the number of octets transmitted or received on a particular interface, the
number of frames transmitted or received on a particular interface, the promiscuous status
of an interface, the MAC address of an interface, and multicast information associated with
an interface"
- what is "this memo"
- what "in other memos" you mean? References please ...
- missing "." at the end of this paragraph

SuggestedRemedy

Per comment

Proposed Response   *Response Status*   **O**

Cl **11**   *SC* **11.2.1**   *P* **223**   *L* **60**   # 46

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**

""old"" - how old is old ? Strike it, it does not matter whether it is old or new.

SuggestedRemedy

Per comment

Proposed Response   *Response Status*   **O**

Cl **11**   *SC* **11.2.2.1**   *P* **224**   *L* **23**   # 47

Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status*   **X**

Is it "ethernet-like interface" or "Ethernet-like interface" or any other spelling? Various
clauses us it inconsistently.

SuggestedRemedy

Fix it, seems that different things are referred to ...

Proposed Response   *Response Status*   **O**

Cl **11**   *SC* **11.2.2.1**   *P* **224**   *L* **24**   # 48

Hajduczenia, Marek   ZTE Corporation

Comment Type   **TR**   *Comment Status*   **X**

" 802.3 link aggregation" - AFAIK, LAG was moved to 802.1 document recently. It is not
part of 802.3 suite anymore - see 802.1AX. Fix it please

SuggestedRemedy

Per comment.

Proposed Response   *Response Status*   **O**

Cl **11**   *SC* **11.2.2.5**   *P* **225**   *L* **13**   # 49

Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status*   **X**

"section 4.2.7.1 of IEEE Std. 802.3" - strike "section", should not use that when referring to
subclauses in 802.3 AFAIK.

SuggestedRemedy

per comment.

Proposed Response   *Response Status*   **O**

Cl **07**   *SC* **7.1**   *P* **47**   *L* **7**   # 50

Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status*   **X**

"The IEEE 802.3 Ethernet in the First Mile (EFM) taskforce"
change to
"The IEEE 802.3ah Ethernet in the First Mile (EFM) Taskforce"

SuggestedRemedy

Per comment. The TaskForce designation was 802.3ah

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **50**   1/22/2010 2:09:02 PM

Cl **07**　　*SC* **7.2**　　　　　　*P* **47**　　*L* **35**　　　# 51
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**T**　　*Comment Status*　**X**
"IEEE Std 802.3 to better address" - reference to 802.3 standard does not comply with IEEE Style Manual.

SuggestedRemedy
Change to "IEEE Std 802.3(tm)-2003 to better address" - use special character for (tm). All references to base 802.3 standard should be done the same way - check "10.4.3 Style for standards reference entries " in Style Manual 2009. Make sure that the version of 802.3 standard is used and referenced correctly.

Proposed Response　　　　*Response Status*　**O**

Cl **07**　　*SC* **7.2**　　　　　　*P* **47**　　*L* **46**　　　# 52
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**E**　　*Comment Status*　**X**
"that operate up to 20 Km and "

SuggestedRemedy
"Km" should be "km"

Proposed Response　　　　*Response Status*　**O**

Cl **07**　　*SC* **7.2**　　　　　　*P* **48**　　*L* **10**　　　# 53
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**E**　　*Comment Status*　**X**
"protocol data unit is given in Section 3.4"

SuggestedRemedy
Per style manual, it should read "protocol data unit is given in 3.4" - the word "Section" or "subsection" or "subclause" is not used. Scrub the draft accordingly.

Proposed Response　　　　*Response Status*　**O**

Cl **08**　　*SC* **8.1.1**　　　　　*P* **91**　　*L* **22**　　　# 54
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**ER**　　*Comment Status*　**X**
"Section" in this subclause is used inccorectly. When referring to a complete section in 802.3, the word "Clause" should be used. Check other 802.3 drafts.

Scrub the draft

SuggestedRemedy
Per comment

Proposed Response　　　　*Response Status*　**O**

Cl **08**　　*SC* **8.1.2.3**　　　　*P* **92**　　*L* **13**　　　# 55
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**TR**　　*Comment Status*　**X**
Not quite sure whether such a note is necessary at all,. given that an LOA exists and was granted by the target company. This is the first time I see such reference in 802.3 standard and I do not believe it is appropriate at all.

SuggestedRemedy
Per comment - remove this note altogether, leaving the editorial note above.

Proposed Response　　　　*Response Status*　**O**

Cl **08**　　*SC* **8.2**　　　　　　*P* **93**　　*L* **52**　　　# 56
Hajduczenia, Marek　　　　　　ZTE Corporation

Comment Type　**E**　　*Comment Status*　**X**
"the network in relation to d1 would look like Figure 8–2"

SuggestedRemedy
missing "." at the end of this line.

Proposed Response　　　　*Response Status*　**O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **56**
1/22/2010 2:09:02 PM

Cl **08**   *SC* **8.2**   *P* **95**   *L* **25**   # 57
Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **X**
"segments, so we will investigate it." - who are these "we" ? Try using more passive
structures, since standards are expected to be written in a formal language.

SuggestedRemedy
"segments, so further investigation is needed."

Proposed Response   *Response Status* **O**

Cl **08**   *SC* **8.2**   *P* **95**   *L* **35**   # 58
Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**
"it must mean that that device is _between_ the parent "
what is this "_between_" and why it is surrounded with some underscores ?

SuggestedRemedy
Pleas clarify what the underscores are for

Proposed Response   *Response Status* **O**

Cl **08**   *SC* **8.2**   *P* **95**   *L* **37**   # 59
Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**
"In the example, we can see that device d4 can eliminate both d5 and d6, , but nobody can
eliminate d4 and d7, because everybody hears them on the same port that they hear the
parent device (d1). "
Change to passive speech

SuggestedRemedy
"In the example, device d4 can eliminate both devices d5 and d6, though it is not possible
to eliminate devices d4 and d7, because no other device receives their transmissions on
the same port they receive transmission from the parent device (d1). "
Try avoiding using the word "hear" since it is inherently associated with capabilities of living
creates. Devices can receive ...

Proposed Response   *Response Status* **O**

Cl **08**   *SC* **8.2**   *P* **95**   *L* **40**   # 60
Hajduczenia, Marek   ZTE Corporation

Comment Type **E**   *Comment Status* **X**
"topology looks like Figure8–3"

SuggestedRemedy
missing "." at the end of the sentence. Scrub the draft in this section, since it seems that
on multiple occassions, "." is missing at the end of sentences containign cross-references
to figures and tables.

Proposed Response   *Response Status* **O**

Cl **08**   *SC* **8.2**   *P* **96**   *L* **3**   # 61
Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**
"In this network, we are trying to place e1 where it belongs. We begin by placing it
arbitrarily into a segment as shown in Figure8–6"

SuggestedRemedy
"In this network architecture, device e1 will be placed in a correct position. The process is
started by placing it arbitrarily into a segment, as shown in Figure 8–6."

Proposed Response   *Response Status* **O**

Cl **08**   *SC* **8.2**   *P* **96**   *L* **24**   # 62
Hajduczenia, Marek   ZTE Corporation

Comment Type **T**   *Comment Status* **X**
"In this case, we would give d1, d4, and d7 a chance to show that e1 is not really on that
segment. d4 and d7 hear e1 on the same port which connects them to that segment, so
they cannot eliminate e1 from the segment. However, d1 will hear e1 on a different port,
so we move e1 down onto the segment which is connected by that port. This yields the
arrangement seen in Figure8–7"

SuggestedRemedy
"In this case, devices d1, d4, and d7 will be given a chance to discover that e1 is not
connected to their segments. Devices d4 and d7 receive transmissions from device e1 on
the port connecting them to that segment, so they cannot eliminate device e1 from the
segment. However, device d1 will receive transmission from device e1 on a different port,
so it is possible to move device e1 down onto the segment which is connected by that port.
This yields the arrangement as presented in Figure 8–7."

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **62**   1/22/2010 2:09:02 PM

Cl **08**   *SC* **8.2**   *P* **96**   *L* **44**   # 63
Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status* **X**
Plenty of free space under Figure 8-7 - why ?

SuggestedRemedy
remove this empty space

Proposed Response   *Response Status* **O**

Cl **08**   *SC* **8.2**   *P* **96**   *L* **60**   # 64
Hajduczenia, Marek   ZTE Corporation

Comment Type   **T**   *Comment Status* **X**
"Now we give everyone in that segment (besides that parent device, d1) a chance to
eliminate e1. Only d3 can try, and it succeeds, so we place e1 on segment which is
connected by the port on which d3 heard e1. There is no segment there (yet), so we create
one, and end up with Figure8–8 which is the correct position."

SuggestedRemedy
"Next, other devices in that segment (besides the parent device, d1) have a chance to
eliminate device e1. Only device d3 can successfully eliminate device e1, thus device e1 is
placed on the segment which is connected to the port on which device d3 receives
transmissions from device e1. There is no segment there yet, thus together with placing
device e1, a new connection to device d3 is created, as shown in Figure 8–8, which
represents the correct location of device e1 in the examined network topology."

Proposed Response   *Response Status* **O**

Cl **09**   *SC* **9.3**   *P* **143**   *L* **47**   # 65
Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status* **X**
"mid- span boxes" > "mid-span boxes"

SuggestedRemedy
Extra space should be deleted

Proposed Response   *Response Status* **O**

Cl **09**   *SC* **9.3**   *P* **143**   *L* **54**   # 66
Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status* **X**
Extra line at the end of subclause 9.3

SuggestedRemedy
Remove it

Proposed Response   *Response Status* **O**

Cl **09**   *SC* **9.4**   *P* **144**   *L* **9**   # 67
Hajduczenia, Marek   ZTE Corporation

Comment Type   **E**   *Comment Status* **X**
Elements "pethPsePortAdminEnable, pethPsePortPowerPairs, pethPsePortPowerPriority,
pethPsePortType" should be bulleted. Same for pethMainPseUsageThreshold,
pethNotificationControlEnable, pethPsePortPowerPairsControlAbility,
pethPsePortPowerPriority, pethPsePortPowerClassifications

SuggestedRemedy
Per comment.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **33**   *L* **24**   # 68
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev1*
from websmi:
{module-not-found} failed to locate MIB module `LLDP-V2-MIB'

SuggestedRemedy
Compile with LLDP-V2-MIB

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied   Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **68**
1/22/2010 2:09:02 PM

Cl **6**   *SC* **6.4**   *P* **33**   *L* **26**   # 69

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from websmi:
{module-not-found} failed to locate MIB module `LLDP-V2-TC-MIB'

SuggestedRemedy

Compile with LLDP-V2-MIB

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **33**   *L* **28**   # 70

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev2*

from websmi:
{bad-identifier-case} `IEEE8023lldpV2Xdot3MIB' should start with a lower case letter

SuggestedRemedy

change to ieee8023LldpV2Xdot3MIB

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **33**   *L* **28**   # 71

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from websmi:
{internal-other} syntax error, unexpected MODULE_IDENTITY, expecting OBJECT

SuggestedRemedy

This may be fixed by changing the name to start with lower case.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **34**   *L* **17**   # 72

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev2*

from websmi:
{bad-identifier-case} `IEEE8023lldpV2Xdot3MIB' should start with a lower case letter

SuggestedRemedy

change to ieee8023LldpV2Xdot3MIB

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **33**   *L* **28**   # 73

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev2*

from websmi:
{module-identity-missing} missing MODULE-IDENTITY clause in SMIv2 MIB

SuggestedRemedy

This may be fixed by changing the name to start with lower case.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **34**   *L* **17**   # 74

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE8023lldpV2Xdot3MIB'

SuggestedRemedy

This may be fixed by changing the name to start with lower case.

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **74**   1/22/2010 2:09:02 PM

Cl **6**   *SC* **6.4**   *P* **35**   *L* **3**   # 75

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `lldpV2PortConfigEntry'

SuggestedRemedy

probably caused by import failing. Fix the import and this problem should be fixed

Proposed Response   *Response Status*   **O**

Cl **6**   *SC* **6.4**   *P* **35**   *L* **3**   # 76

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev2*

from websmi:
{augment-no-row} row `lldpV2Xdot3PortConfigEntry' augments or extends
`lldpV2PortConfigEntry' which is not a row

SuggestedRemedy

probably caused by import failing. Fix the import and this problem should be fixed

Proposed Response   *Response Status*   **O**

Cl **6**   *SC* **6.4**   *P* **37**   *L* **58**   # 77

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `lldpV2LocPortIfIndex'

SuggestedRemedy

probably caused by import failing. Fix the import and this problem should be fixed

Proposed Response   *Response Status*   **O**

Cl **6**   *SC* **6.4**   *P* **37**   *L* **63**   # 78

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev2*

from websmi:
{basetype-unknown} type `LldpV2PowerPortClass' of node
`lldpV2Xdot3LocPowerPortClass' does not resolve to a known base type

SuggestedRemedy

probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status*   **O**

Cl **6**   *SC* **6.4**   *P* **42**   *L* **12**   # 79

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `lldpV2RemTimeMark'

SuggestedRemedy

probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status*   **O**

Cl **6**   *SC* **6.4**   *P* **42**   *L* **13**   # 80

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `lldpV2RemLocalIfIndex'

SuggestedRemedy

probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **80**

1/22/2010 2:09:02 PM

Cl **6**   *SC* **6.4**   *P* **42**   *L* **14**   # 81
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev1*
from websmi:
{object-identifier-unknown} unknown object identifier label
`lldpV2RemLocalDestMACAddress'

SuggestedRemedy
probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **42**   *L* **15**   # 82
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev1*
from websmi:
{object-identifier-unknown} unknown object identifier label `lldpV2RemIndex'

SuggestedRemedy
probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **42**   *L* **20**   # 83
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev2*
from websmi:
{basetype-unknown} type `LldpV2PowerPortClass' of node
`lldpV2Xdot3RemPowerPortClass' does not resolve to a known base type

SuggestedRemedy
probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **44**   *L* **38**   # 84
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev1*
from websmi:
{object-identifier-unknown} unknown object identifier label `lldpV2Xdot3MIB'

SuggestedRemedy
probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status* **O**

Cl **6**   *SC* **6.4**   *P* **37**   *L* **63**   # 85
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev2*
from websmi:
{type-unknown} unknown type `LldpV2PowerPortClass'

SuggestedRemedy
probably caused by import failing. Fix the import and this problem should be fixed.

Proposed Response   *Response Status* **O**

Cl **7**   *SC* **7.7**   *P* **55**   *L* **65**   # 86
Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status* **X**   *sev2*
from websmi:
{bad-identifier-case} `IEEE-8023-xxxx' should start with a lower case letter

SuggestedRemedy
change to ieee-8023-xxxx

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **86**   1/22/2010 2:09:02 PM

Cl **7** *SC* **7.7** *P* **55** *L* **65** # 87

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev2*

from websmi:
{object-identifier-not-prefix} Object identifier element `xxxx' name only allowed as first element

SuggestedRemedy

will be fixed as soon as we assign the correct arc

Proposed Response *Response Status* **O**

Cl **7** *SC* **7.7** *P* **55** *L* **76** # 88

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

SuggestedRemedy

change to ieee-8023-xxxx and assign arc.

Proposed Response *Response Status* **O**

Cl **7** *SC* **7.7** *P* **56** *L* **13** # 89

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from websmi:
{type-without-format} warning: type `EightOTwoOui' has no format specification

SuggestedRemedy

add a format specification

Proposed Response *Response Status* **O**

Cl **7** *SC* **7.7** *P* **55** *L* **3** # 90

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from websmi:
{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never used

SuggestedRemedy

no longer need to import mib-2 once we change the OID.

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **99** *L* **41** # 91

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev2*

from websmi:
{bad-identifier-case} `IEEE-8023-xxxx' should start with a lower case letter

SuggestedRemedy

change to ieee-8023-xxxx

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **99** *L* **41** # 92

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev2*

from websmi:
{object-identifier-not-prefix} Object identifier element `xxxx' name only allowed as first element

SuggestedRemedy

will be fixed as soon as we assign the correct arc

Proposed Response *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **92**

1/22/2010 2:09:02 PM

Cl **8**　　　*SC* **8.3**　　　　　　*P* **99**　　　*L* **45**　　　# 93

Frazier, Howard　　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　*sev1*

{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

SuggestedRemedy

"IEEE-8023-XXXX XXXX" should be replaced with "ieee8023snmpRptrMod 0"

Proposed Response　　　*Response Status* **O**

Cl **8**　　　*SC* **8.3**　　　　　　*P* **101**　　　*L* **32**　　　# 94

Frazier, Howard　　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　*sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrGroupIndex' of row `rptrGroupEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response　　　*Response Status* **O**

Cl **8**　　　*SC* **8.3**　　　　　　*P* **103**　　　*L* **45**　　　# 95

Frazier, Howard　　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　*sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrPortGroupIndex' of row `rptrPortEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response　　　*Response Status* **O**

Cl **8**　　　*SC* **8.3**　　　　　　*P* **103**　　　*L* **55**　　　# 96

Frazier, Howard　　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　*sev5*

from smiweb:
index-element-accessible} warning: index element `rptrPortIndex' of row `rptrPortEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response　　　*Response Status* **O**

Cl **8**　　　*SC* **8.3**　　　　　　*P* **106**　　　*L* **25**　　　# 97

Frazier, Howard　　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　*sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrInfoId' of row `rptrInfoEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response　　　*Response Status* **O**

Cl **8**　　　*SC* **8.3**　　　　　　*P* **109**　　　*L* **30**　　　# 98

Frazier, Howard　　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　*sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrMonitorPortGroupIndex' of row `rptrMonitorPortEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response　　　*Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **98**

1/22/2010 2:09:02 PM

Cl **8** *SC* **8.3** *P* **109** *L* **40** # 99

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrMonitorPortIndex' of row `rptrMonitorPortEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **127** *L* **34** # 100

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from smiweb:
{type-status-deprecated} warning: type `OwnerString' used by `rptrAddrSearchOwner' is deprecated

SuggestedRemedy

Use the newer, non-deprecated type
(whatever it may be?)

also appears on page 125 line 54

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **128** *L* **27** # 101

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrAddrTrackGroupIndex' of row `rptrAddrTrackEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **128** *L* **37** # 102

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrAddrTrackPortIndex' of row `rptrAddrTrackEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **130** *L* **28** # 103

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrExtAddrTrackMacIndex' of row `rptrExtAddrTrackEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response *Response Status* **O**

Cl **8** *SC* **8.3** *P* **132** *L* **10** # 104

Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrTopNPortControlIndex' of row `rptrTopNPortControlEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **104** 1/22/2010 2:09:02 PM

Cl **8**   *SC* **8.3**   *P* **136**   *L* **8**   # 105

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*

from smiweb:
{index-element-accessible} warning: index element `rptrTopNPortIndex' of row
`rptrTopNPortEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **134**   *L* **64**   # 106

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*

from smiweb:
{type-status-deprecated} warning: type `OwnerString' used by `rptrTopNPortOwner' is
deprecated

SuggestedRemedy

Use the newer, non-deprecated type
(whatever it may be?)

also appears on page 132 line 2

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **99**   *L* **13**   # 107

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*

the type "OwnerString" imported from IF-MIB is deprecated.

SuggestedRemedy

import the newer, non-deprecated type
(whatever it may be?)

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **138**   *L* **9**   # 108

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from smiweb:
{object-identifier-unknown} unknown object identifier label `snmpRptrMod

SuggestedRemedy

change "snmpRptrMod" to "ieee8023snmpRptrMod"

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **137**   *L* **27**   # 109

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*

from smiweb:
{node-implicit} warning: implicit node definition

SuggestedRemedy

Make the node explicit by defining ieee8023snmpDot3RptrNotifications object group ::=
{snmpDot3RptrMgt 0} which will contain rptrInfoHealth ::= {
ieee8023snmpDot3RptrNotifications 4 } and rptrInfoResetEvent ::= {
ieee8023snmpDot3RptrNotifications 5 }

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **137**   *L* **4**   # 110

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev4*

from smiweb:
{group-membership} warning: notification `rptrInfoHealth' must be contained in at least one
conformance group

SuggestedRemedy

place this notification and also rptrInfoResetEvent into the snmpRptrModNotGrps
conformance group, which is currently defined, but empty (huh?)

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **110**

1/22/2010 2:09:02 PM

Cl **8**   *SC* **8.3**   *P* **137**   *L* **30**   # 111
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev4*
from smiweb:
{group-membership} warning: notification `rptrInfoResetEvent' must be contained in at least
one conformance group

SuggestedRemedy
place this notification and also rptrInfoHealth into the snmpRptrModNotGrps conformance
group, which is currently defined, but empty (huh?)

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **99**   *L* **4**   # 112
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from smiweb:
{import-unused} warning: identifier `TimeTicks' imported from module `SNMPv2-SMI' is
never used

SuggestedRemedy
this type was formerly used by the deprecated object rptrGroupLastOperStatusChange,
which was omitted from this draft of the mib module. As such, it no longer needs to be
imported from SNMPv2-SMI

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **99**   *L* **5**   # 113
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from smiweb:
{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never
used

SuggestedRemedy
no longer need to import mib-2 once we change the OID.

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.3**   *P* **99**   *L* **7**   # 114
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from smiweb:
{import-unused} warning: identifier `DisplayString' imported from module `SNMPv2-TC' is
never used

SuggestedRemedy
this type was formerly used by the deprecated objects rptrGroupDescr and rptrHealthText,
which were omitted from this draft of the mib module. As such, it no longer needs to be
imported from SNMPv2-TC

Proposed Response   *Response Status* **O**

Cl **9**   *SC* **9.5**   *P* **145**   *L* **38**   # 115
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev3*
from smiweb:
{revision-missing} revision for last update is missing

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy
seem to be missing a close double quotation mark at the end of the DESCRIPTION text on
line 38, which is causing this and other errors. Add a close double quotation mark.

Proposed Response   *Response Status* **O**

Cl **9**   *SC* **9.5**   *P* **145**   *L* **43**   # 120
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev2*
from websmi:
{bad-identifier-case} `IEEE-8023-xxxx' should start with a lower case letter

SuggestedRemedy
change to ieee-8023-xxxx

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied   Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **120**

1/22/2010 2:09:02 PM

Cl **9**   *SC* **9.5**   *P* **145**   *L* **43**   # 121

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev2*

from websmi:
{object-identifier-not-prefix} Object identifier element `xxxx' name only allowed as first element

SuggestedRemedy

will be fixed as soon as we assign the correct arc

Proposed Response   *Response Status*   **O**

Cl **9**   *SC* **9.5**   *P* **145**   *L* **43**   # 122

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

SuggestedRemedy

will be fixed as soon as we assign the correct arc

Proposed Response   *Response Status*   **O**

Cl **9**   *SC* **9.5**   *P* **145**   *L* **4**   # 123

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev5*

{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never used

SuggestedRemedy

Delete the import. Once we assign the correct arc, we will no longer need to import mib-2.

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.7**   *P* **181**   *L* **51**   # 124

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy

will be fixed as soon as we assign the correct arc.

Proposed Response   *Response Status*   **O**

Cl **10**   *SC* **10.7**   *P* **161**   *L* **4**   # 125

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev5*

from websmi:
{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never used

SuggestedRemedy

Delete the import. Once we assign the correct arc, we will no longer need to import mib-2.

Proposed Response   *Response Status*   **O**

Cl **11**   *SC* **11.5**   *P* **235**   *L* **38**   # 126

Frazier, Howard   Broadcom Corporation

Comment Type   **T**   *Comment Status*   **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy

will be fixed as soon as we assign the correct arc.

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **126**   1/22/2010 2:09:02 PM

Cl **11**　　*SC* **11.5**　　　　　　　*P* **245**　　*L* **43**　　　# 127

Frazier, Howard　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　　*sev1*

not from websmi:
have to figure out where we want to root this module, since it should not be under transmission 7

SuggestedRemedy

need to discuss in task force, define a new structure for this module, then make the appropriate assignment.

Proposed Response　　　*Response Status* **O**

Cl **11**　　*SC* **11.5**　　　　　　　*P* **236**　　*L* **30**　　　# 128

Frazier, Howard　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　　*sev5*

from websmi:
{index-element-accessible} warning: index element `dot3StatsIndex' of row `dot3StatsEntry' should be not-accessible in SMIv2 MIB

SuggestedRemedy

change access to not-accessible
(note that this rule changed from SMIv1 to SMIv2, which is why the older modules use read-only, and the newer ones use not-accessible).

Proposed Response　　　*Response Status* **O**

Cl **11**　　*SC* **11.5**　　　　　　　*P* **235**　　*L* **5**　　　# 129

Frazier, Howard　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　　*sev5*

from websmi:
{import-unused} warning: identifier `OBJECT-IDENTITY' imported from module `SNMPv2-SMI' is never used

SuggestedRemedy

delete the import. It's an ancient artifact.

Proposed Response　　　*Response Status* **O**

Cl **11**　　*SC* **11.5**　　　　　　　*P* **235**　　*L* **5**　　　# 130

Frazier, Howard　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　　*sev5*

from websmi:
{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never used

SuggestedRemedy

delete the import. Once we assign the correct arc, we won't need to import mib-2.

Proposed Response　　　*Response Status* **O**

Cl **12**　　*SC* **12.6**　　　　　　　*P* **273**　　*L* **45**　　　# 131

Frazier, Howard　　　　　　　　Broadcom Corporation

Comment Type **E**　　*Comment Status* **X**　　　　　　*sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy

will be fixed as soon as we assign the correct arc.

Proposed Response　　　*Response Status* **O**

Cl **12**　　*SC* **12.6**　　　　　　　*P* **273**　　*L* **5**　　　# 132

Frazier, Howard　　　　　　　　Broadcom Corporation

Comment Type **T**　　*Comment Status* **X**　　　　　　*sev5*

from websmi:
{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never used

SuggestedRemedy

delete the import. Once we assign the correct arc, we won't need to import mib-2.

Proposed Response　　　*Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **132**　　1/22/2010 2:09:02 PM

Cl **12**   *SC* **12.6**   *P* **277**   *L* **45**   # 133

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from websmi:
{internal-other} syntax error, unexpected UPPERCASE_IDENTIFIER, expecting
DEFINITIONS or PIB_DEFINITIONS

SuggestedRemedy

This is a result of the text string appearing on line 45:
"EFM Copper MIB Definitions"
It also masks subsequent errors.

Proposed Response   *Response Status* **O**

Cl **12**   *SC* **12.6**   *P* **278**   *L* **26**   # 134

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

not from websmi:
there is a close double quotation mark missing on line 26 at the end of the DESCRIPTION
text.

(this is masking other errors)

SuggestedRemedy

add the close double quotation mark.

Proposed Response   *Response Status* **O**

Cl **12**   *SC* **12.6**   *P* **278**   *L* **21**   # 135

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

not from websmi:
there is an evil open single "smart quote"
on this line, and in several other places in
this module.

SuggestedRemedy

search and destroy all single "smart quotes" in the module.

Proposed Response   *Response Status* **O**

Cl **12**   *SC* **12.6**   *P* **278**   *L* **33**   # 136

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy

will be fixed as soon as we assign the correct arc.

Proposed Response   *Response Status* **O**

Cl **12**   *SC* **12.6**   *P* **277**   *L* **50**   # 137

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*

from websmi:
{import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never
used

SuggestedRemedy

delete the import. Once we assign the correct arc, we won't need to import mib-2.

Proposed Response   *Response Status* **O**

Cl **13**   *SC* **13.3**   *P* **341**   *L* **55**   # 138

Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*

from websmi:
{object-identifier-unknown} unknown object identifier label `IEEE-8023-xxxx'

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy

will be fixed as soon as we assign the correct arc.

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **138**   1/22/2010 2:09:02 PM

Cl **13** *SC* **13.3** *P* **341** *L* **5** # 139
Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*
from websmi:
{import-unused} warning: identifier 'transmission' imported from module 'SNMPv2-SMI' is never used

SuggestedRemedy
delete the import. Once we assign the correct arc, we won't need to import transmission.

Proposed Response *Response Status* **O**

Cl **13** *SC* **13.3** *P* **341** *L* **44** # 140
Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev1*
There are evil smart quotes in this module.
some times they cause problems and some times they don't. We should nuke them, just to be safe.

SuggestedRemedy
search and destroy evil smart quotes.

Proposed Response *Response Status* **O**

Cl **13** *SC* **13.3** *P* **341** *L* **1** # 141
Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev5*
from websmi:
{module-name-suffix} warning: module name 'IEEE8023-ETHER-WIS' should match '*-MIB'

SuggestedRemedy
add "-MIB" to the end of the module name.

Proposed Response *Response Status* **O**

Cl **14** *SC* **14.5** *P* **361** *L* **44** # 142
Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev2*
from websmi:
{bad-identifier-case} `IEEE-8023-xxxx' should start with a lower case letter

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy
will be fixed when we assign the correct arc.

Also need to correct the structure, i.e.
ieee8023snmpDot3MauMgt OBJECT IDENTIFIER ::= { ieee8023mauMod X }

Proposed Response *Response Status* **O**

Cl **14** *SC* **14.5** *P* **362** *L* **27** # 143
Frazier, Howard Broadcom Corporation

Comment Type **T** *Comment Status* **X** *sev1*
from websmi:
{internal-other} syntax error, unexpected '|', expecting UPPERCASE_IDENTIFIER or LOWERCASE_IDENTIFIER or NUMBER

(several other errors that result from the
same bug are omitted for the sake of brevity)

SuggestedRemedy
delete the extraneous "|".

Proposed Response *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **143** 1/22/2010 2:09:02 PM

Cl **14**   *SC* **14.5**   *P* **362**   *L* **50**   # 144
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from websmi:
{index-element-accessible} warning: index element `rpMauGroupIndex' of row `rpMauEntry'
should be not-accessible in SMIv2 MIB

SuggestedRemedy
change access to not-accessible
(note that this rule changed from SMIv1 to SMIv2, which is why the older modules use read-
only, and the newer ones use not-accessible).

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **363**   *L* **8**   # 145
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from websmi:
{index-element-accessible} warning: index element `rpMauPortIndex' of row `rpMauEntry'
should be not-accessible in SMIv2 MIB

SuggestedRemedy
change access to not-accessible
(note that this rule changed from SMIv1 to SMIv2, which is why the older modules use read-
only, and the newer ones use not-accessible).

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **363**   *L* **20**   # 146
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from websmi:
{index-element-accessible} warning: index element `rpMauIndex' of row `rpMauEntry'
should be not-accessible in SMIv2 MIB

SuggestedRemedy
change access to not-accessible
(note that this rule changed from SMIv1 to SMIv2, which is why the older modules use read-
only, and the newer ones use not-accessible).

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **367**   *L* **61**   # 147
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from websmi:
{index-element-accessible} warning: index element `ifMauIfIndex' of row `ifMauEntry'
should be not-accessible in SMIv2 MIB

SuggestedRemedy
change access to not-accessible
(note that this rule changed from SMIv1 to SMIv2, which is why the older modules use read-
only, and the newer ones use not-accessible).

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **368**   *L* **7**   # 148
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from websmi:
{index-element-accessible} warning: index element `ifMauIndex' of row `ifMauEntry' should
be not-accessible in SMIv2 MIB

SuggestedRemedy
change access to not-accessible
(note that this rule changed from SMIv1 to SMIv2, which is why the older modules use read-
only, and the newer ones use not-accessible).

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **377**   *L* **48**   # 149
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*
from websmi:
{object-identifier-unknown} unknown object identifier label `snmpDot3MauMgt'

SuggestedRemedy
structural problem.

change "snmpDot3MauMgt" to "ieee8023snmpDot3MauMgt" and beware of evil single
"smart quotes"

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **149**
1/22/2010 2:09:02 PM

Cl **14**   *SC* **14.5**   *P* **378**   *L* **17**   # 150
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*
from websmi:
{object-identifier-unknown} unknown object identifier label `mauMod'

SuggestedRemedy
change "mauMod" to "ieee8023mauMod" (and beware of evil single "smart quotes").

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **381**   *L* **6**   # 151
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev4*
from websmi:
{group-membership} warning: node `dot3Placeholder' must be contained in at least one
conformance group

SuggestedRemedy
if we decide to keep this place holder, we should add it to a conformance group, such as
the mauModRpCompl3 group defined on page 380-381.

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **361**   *L* **5**   # 152
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
from websmi:
import-unused} warning: identifier `mib-2' imported from module `SNMPv2-SMI' is never
used

SuggestedRemedy
delete the import. Once we assign the correct arc, we won't need to import mib-2.

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **361**   *L* **7**   # 153
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev5*
{import-unused} warning: identifier `TEXTUAL-CONVENTION' imported from module
`SNMPv2-TC' is never used

SuggestedRemedy
It appears that this TC is only used in one deprecated object in the MAU-MIB, i.e. JACK-
TYPE (which was omitted from this draft). It is used in three objects in the IANA module. I
think it can be deleted from the imports to MAU-MIB.

Proposed Response   *Response Status* **O**

Cl **14**   *SC* **14.5**   *P* **381**   *L* **48**   # 154
Frazier, Howard   Broadcom Corporation

Comment Type **T**   *Comment Status* **X**   *sev1*
from websmi:
{internal-other} syntax error, unexpected UPPERCASE_IDENTIFIER, expecting
DEFINITIONS or PIB_DEFINITIONS

SuggestedRemedy
This is a result of the text string appearing on line 48:
"IANA-Maintained MAU TC Definitions"
It also masks subsequent errors.
Delete the offending text.
Consider splitting the modules into separate
.fm and .txt files (also for the EFM Cu Clause),
or just eliminate the offending text.

Proposed Response   *Response Status* **O**

Cl **8**   *SC* **8.1.1**   *P* **91**   *L* **22**   # 155
Frazier, Howard   Broadcom Corporation

Comment Type **E**   *Comment Status* **X**
Use of "Section" vs "Clause"

SuggestedRemedy
Replace "Section" with "Clause" in two places.

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **155**   1/22/2010 2:09:02 PM

Cl **8**   *SC* **8.1.1**   *P* **91**   *L* **31**   # 156
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
"Section" should be deleted, and the sentence should be rewritten to reflect that the GDMO
has moved into this document.

SuggestedRemedy
The definitions presented here are based on 30.4, "Layer Management for 10, 100 and
1000 Mb/s Baseband
Repeaters" of IEEE Std 802.3.

Proposed Response   *Response Status* **O**

Cl **11**   *SC* **11.2**   *P* **223**   *L* **40**   # 157
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
"Section" should be deleted, and the sentence should be rewritten to reflect that the GDMO
has moved into this document.

SuggestedRemedy
The definitions presented here are based on Clause 30, "10 Mb/s, 100 Mb/s 1000 Mb/s and
10 Gb/s Management", of IEEE Std. 802.3.

Proposed Response   *Response Status* **O**

Cl **12**   *SC* **12.1**   *P* **261**   *L* **25**   # 158
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
need to update references to point to this document, rather than the RFCs

SuggestedRemedy
Note that managed objects for Operation, Administration and Maintenance (OAM) and
Ethernet over Passive
Optical Networks (EPON) are defined in Clause 7 and Clause 10, respectively, of this
document.

Proposed Response   *Response Status* **O**

Cl **13**   *SC* **13.1**   *P* **327**   *L* **19**   # 159
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
need to update references to point to this document, rather than the RFCs

SuggestedRemedy
...and the IEEE 802.3 MAU MIB defined in Clause 14 of this document…

Proposed Response   *Response Status* **O**

Cl **13**   *SC* **13.1**   *P* **327**   *L* **38**   # 160
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
"and Annex 30A" should be deleted

SuggestedRemedy
delete "and Annex 30A".

Proposed Response   *Response Status* **O**

Cl **13**   *SC* **13.1.1**   *P* **327**   *L* **59**   # 161
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
bad reference to "section 3.6"

SuggestedRemedy
should refer to 13.1.6 of this document

Proposed Response   *Response Status* **O**

Cl **13**   *SC* **13.1.6**   *P* **329**   *L* **61**   # 162
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status* **X**
need to update references to point to this document, rather than the RFCs

SuggestedRemedy
...and the IEEE 802.3 MAU MIB defined in Clause 14 of this document…

Proposed Response   *Response Status* **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **162**   1/22/2010 2:09:02 PM

Cl **13**   *SC* **13.1.1**   *P* **328**   *L* **65**   # 163
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status*   **X**
should not cite "subclause" 50.3.11

SuggestedRemedy
replace "subclause" with "IEEE Std 802.3".

Proposed Response   *Response Status*   **O**

Cl **14**   *SC* **14.2**   *P* **355**   *L* **50**   # 164
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status*   **X**
incorrect use of "Section", plus extraneous reference to Annex 30A.

SuggestedRemedy
The definitions presented here are based on 30.5, "Layer Management for 10 Mb/s, 100
Mb/s, 1000
Mb/s, and 10 Gb/s Medium Attachment Units (MAUs)", and 30.6, "Management for link
Auto- Negotiation", of IEEE Std. 802.3.

Proposed Response   *Response Status*   **O**

Cl **14**   *SC* **14.2.2.1**   *P* **356**   *L* **46**   # 165
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status*   **X**
need to update references to point to this document, rather than RFCs.

SuggestedRemedy
replace "[RFC3635]" with "Clause 11" on lines 46 and 61. Replace "[RFC3637]" with
"Clause 13" on line 61.

Proposed Response   *Response Status*   **O**

Cl **14**   *SC* **14.2.2.2**   *P* **357**   *L* **4**   # 166
Frazier, Howard   Broadcom Corporation

Comment Type   **E**   *Comment Status*   **X**
need to update references to point to this document, rather than RFCs.

SuggestedRemedy
replace "[RFC2108]" with "Clause 8"

Proposed Response   *Response Status*   **O**

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open   W/written   C/closed   U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

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Comment ID # **166**
1/22/2010 2:09:02 PM