<table>
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<th>Comment</th>
<th>Type</th>
<th>Status</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>D</td>
<td>On page 49, line 47 (diff document) there is a reference to 25.4a.2 (link does not work) but 25.4a.2 does not exist in the draft.</td>
<td>T</td>
<td>D</td>
<td>The transition from RX_WAKE_DONE to LPI_K in the PCS Receive state diagram (Figure 36-7c, the second one) should be UCT (unconditional transition) and not SUDI. SUDI will cause to PCS Receive state diagram to be out of synchronization.</td>
</tr>
<tr>
<td>E</td>
<td>D</td>
<td>On page 50, line 14 there is a reference to 25.4a.1 (link does not work) but 25.4a.1 does not exist in the draft.</td>
<td>T</td>
<td>D</td>
<td>The transition from LPI_K back to LP_IDLE_D is inconsistent with the equivalent legacy transition (RX_K to IDLE_D) when xmit != DATA. If xmit != DATA and SUDI([-K5.6-],[-D16.2-]), the state diagram would get stuck into the LPI_K state indefinitely. However, this is highly unlikely. What is more likely is that auto-negotiation is restarted while the receiver is detecting LPI. In this case, the state diagram would remain in the LPI_K state during the data code-group reception, and transition into the RX_INVALID state (via “F”) when the next /K28.5/ is received. At worst, this would force an Auto-Negotiation restart (via RUDI(INVALID)) but this seems like an unnecessary glitch with a straightforward work-around.</td>
</tr>
<tr>
<td>P</td>
<td>A</td>
<td>In order to advertise the fast retrain ability (45.7.10), the management needs to know if the PHY is capable of fast retrain. Also the management may choose not to advertise fast retrain ability, to the link partner, even if the local PHY is fast retrain capable. So define a bit to fast retrain ability bit to fast retrain control/status register. This bit will be set to one for PHYs that implement fast retrain capability.</td>
<td>P</td>
<td>A</td>
<td>Add a bit to 1.147, 10GBASE-T fast retrain status &amp; control register, to indicate PHY fast retrain capability.</td>
</tr>
<tr>
<td>Comment Type</td>
<td>Comment Status</td>
<td>SuggestedRemedy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>----------------</td>
<td>---------------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>It appears that the response to Comment #359 has not been fully implemented. Implement the changes to Clause 45 as per response to #359.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Also make the following changes to Clause 45:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Define a new register bit:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.147.1: Fast retrain signal type: 1 = send IDLE during fast retrain, 0 = send local fault during fast retrain.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Insert 45.2.1.76a.2 Fast retrain signal type (1.147.1).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For PHYs that support fast retrain, this bit maps to lpi_fr_sigtype as defined in 55.4.5.1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>When Fast retrain signal type is set to one, the PMA sends IDLE characters on the receive path during fast retrain. When Fast retrain signal type is set to zero, the PMA sends local fault on the receive path during fast retrain.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Provide a RO status bit to indicate whether fast retraining was successfully negotiated or not. 1.147.0 does not suffice, since it may be overwritten by the station manager.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set the PLS_CARRIER.indication primitive when the PMA indicates fr_active (PMA_FR_ACTIVE.indication) to defer frame transmission during fast retrain. This will ensure no packet drop during fast retrain.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Proposed Response**

**Response Status**

- **TR/technical required**
- **ER/editorial required**
- **GR/general required**
- **T/technical**
- **E/editorial**
- **G/general**

**Comment Status**

- **D/dispatched**
- **A/accepted**
- **R/rejected**
- **C/closed**
- **U/unsatisfied**
- **Z/withdrawn**

**Sort Order**: Clause, Subclause, page, line
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<th>Comment Status</th>
<th>Comment</th>
<th>Proposed Response</th>
<th>Response Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>46.1.7.3</td>
<td>140</td>
<td>41</td>
<td>TR</td>
<td>D</td>
<td>Assertion of CARRIER_STATUS by the RS should be based upon LPI_REQUEST not LPI_INDICATE. i.e., it is based upon the transmit LPI state, not the receive side. This statement in 46.1.7.3 is inconsistent with the reference state diagram (46-10a) and the description in 78.1.3.1.</td>
<td>Change LPI_INDICATION to LPI_REQUEST</td>
<td>O</td>
</tr>
<tr>
<td>46</td>
<td>46.1.7.3</td>
<td>140</td>
<td>42</td>
<td>T</td>
<td>D</td>
<td>CARRIER status has values CARRIER_ON and CARRIER_OFF.</td>
<td>Change &quot;CARRIER_STATUS is set to false&quot; to &quot;CARRIER_STATUS is set to CARRIER_OFF&quot;.</td>
<td>O</td>
</tr>
<tr>
<td>46</td>
<td>46.3a.1</td>
<td>144</td>
<td>5</td>
<td>T</td>
<td>D</td>
<td>There's no PICS entry for the shall in &quot;The PHY shall restart RX_CLK so that at least one positive transition occurs before it deasserts LPI.&quot;</td>
<td>Add PICS entry.</td>
<td>O</td>
</tr>
</tbody>
</table>

**Ganga, Ilango Intel Corporation**

**Brown, Matthew Applied Micro (AMCC)**

**Turner, Edward Gnodal Ltd**
IEEE P802.3az D3.1 Energy Efficient Ethernet comments

Cl 46 SC 46.3a.2.2 P145 L 28 # B5
Brown, Matthew Applied Micro (AMCC)

Comment Type T Comment Status D
CARRIER status has values CARRIER_ON and CARRIER_OFF.

Suggested Remedy
- Change "CARRIER_STATUS = OFF" to "CARRIER_STATUS = CARRIER_OFF".

Proposed Response Response Status O

Cl 46 SC 46.3a.2.2 P145 L 36 # B6
Brown, Matthew Applied Micro (AMCC)

Comment Type T Comment Status D
CARRIER status has values CARRIER_ON and CARRIER_OFF.

Suggested Remedy
- Change "CARRIER_STATUS = ON" to "CARRIER_STATUS = CARRIER_ON".

Proposed Response Response Status O

Cl 49 SC 49 P178 L # B9
Horner, Rita Avago Technologies

Comment Type T Comment Status D
The exit from TX_QUIET should be tx_timer_done or tx_raw != LI

Suggested Remedy
- Remove the requirement of !tx_timer_done on the exit from TX_QUIET

Proposed Response Response Status O

Cl 49 SC 49 P180 L 34 # B0
Horner, Rita Avago Technologies

Comment Type T Comment Status D
Correct the definition for rx_fault

Suggested Remedy
- rx_fault should be changed to "receive fault" as it is referred to in the MDIO definition and in 49.2.14.1. PCS_status

Proposed Response Response Status O

Cl 49 SC 49.2.13.2.2 P171 L 53 # B3
Anslow, Peter Ciena Corporation

Comment Type E Comment Status D
The editing instruction says "Insert new variables into 49.2.13.2.2, ..." but the heading beneath this is "49.2.9.2.2 Variables"

Suggested Remedy
- Change clause number in heading to 49.2.13.2.2

Proposed Response Response Status O

Cl 49 SC 49.2.13.2.2 P178 L # B8
Horner, Rita Avago Technologies

Comment Type T Comment Status D
There is a potential dead-lock definition if the timer expires at the same time as tx_raw transitions from LI to !LI

Suggested Remedy
- Remove the !tx_ts_timer_done from the state transition TX_SLEEP to TX_ACTIVE

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: Clause, Subclause, page, line
The definition of one_us_timer needs reference the parameter T_1U defined in Table 49-3 (which really should be replacing Table 49-2) in order to establish the bounds on the timer terminal count.

**Suggested Remedy**

Change the definition of one_us_timer to: "This timer is used to count approximately 1 microsecond intervals. The timer terminal count is set to T1U. When the timer reaches terminal count it will set the one_us_timer_done = TRUE."

**Proposed Response**

Response Status: O

---

The editing instruction says "Insert the following row into table 51.7.3.", but table 51.7.3 does not exist.

**Suggested Remedy**

Change *Insert the following row into table 51.7.3:* to *Insert the following row at the end of the table in 51.10.3:*

**Proposed Response**

Response Status: O

---

As per D3.1, there is an option in the PMA to either send IDLE or Local Fault during fast retrain. However it is possible for one link partner to enable IDLE and other link partner may enable to send Local Fault condition. So the link partners may have different settings at either end of the link and this may cause inconsistent behaviour at the link/system level.

**Suggested Remedy**

One possibility is to provide a mechanism to advertise the fast retrain signal type along with fast retrain ability, so both link partner can enable this feature consistently. Alternatively do not provide an optional feature, just specify one mechanism to signal fast retrain active condition. This will ensure consistent behavior at the either end of the link.

**Proposed Response**

Response Status: O
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<tr>
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<th>Comment Status</th>
<th>Proposed Response</th>
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<tbody>
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<td>55</td>
<td>55.2.2.11.1</td>
<td>P193</td>
<td>L19</td>
<td>E</td>
<td>D</td>
<td>Not clear what pcs_data_mode parameter is.</td>
</tr>
<tr>
<td>55</td>
<td>55.2.2.12</td>
<td>P193</td>
<td>L42</td>
<td>E</td>
<td>D</td>
<td>Not clear what fr_active parameter is.</td>
</tr>
<tr>
<td>55</td>
<td>55.2.2.3.1</td>
<td>P191</td>
<td>L51</td>
<td>E</td>
<td>D</td>
<td>New sentence is not indicates.</td>
</tr>
<tr>
<td>55</td>
<td>55.2.2.3.1</td>
<td>P192</td>
<td>L5</td>
<td>E</td>
<td>D</td>
<td>Clean up list.</td>
</tr>
<tr>
<td>55</td>
<td>55.2.2.3.1</td>
<td>P192</td>
<td>L26</td>
<td>TR</td>
<td>D</td>
<td>alert_detect parameter values do not match alert_detect variable.</td>
</tr>
<tr>
<td>55</td>
<td>55.2.2.3.1</td>
<td>P192</td>
<td>L28</td>
<td>TR</td>
<td>D</td>
<td>When is alert_detect, set to NOT_DETECTED? Though the event DETECTED is obvious, it is not clear when alert_detect would be set to NOT_DETECTED. In fact, all of the definitions talk about the DETECTED event and the state machine really only requires the DETECTED event. Fixing this is somewhat complicated by the composite nature of the variable definition in 55.3.5.22.</td>
</tr>
</tbody>
</table>

TYPE: TR/technical required  ER/editorial required  GR/general required  T/technical  E/editorial  G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Clause, Subclause, page, line
IEEE P802.3az D3.1 Energy Efficient Ethernet comments

**Comments received**

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<tbody>
<tr>
<td>55</td>
<td>55</td>
<td>E</td>
<td>D</td>
<td>Add heading 55.3.2 after 55.3 and move diagram to occur after 55.3.2.</td>
<td>O</td>
<td>Brown, Matthew</td>
</tr>
<tr>
<td>55</td>
<td>55</td>
<td>ER</td>
<td>D</td>
<td>Re-draw dashed rectangle to include only EEE signals. Employ another means to differentiate FR signals from normal and EEE signals. Add a note to indicate the signals relevant to FR.</td>
<td>O</td>
<td>Brown, Matthew</td>
</tr>
<tr>
<td>55</td>
<td>55</td>
<td>ER</td>
<td>D</td>
<td>Be clear about what is meant by &quot;normal mode of operation&quot;. Change start of sentence to: &quot;After reaching the normal mode of operation (pcs_data_mode = TRUE), ...&quot;</td>
<td>O</td>
<td>Brown, Matthew</td>
</tr>
<tr>
<td>55</td>
<td>55</td>
<td>E</td>
<td>D</td>
<td>&quot;7.36us&quot; should have a space between the number and its unit (use ctrl space to make it non-breaking) and the greek letter mu rather than u</td>
<td>O</td>
<td>Anslow, Peter</td>
</tr>
</tbody>
</table>

**Response Status: O/open"**
### IEEE P802.3az D3.1 Energy Efficient Ethernet comments

**Comments received**

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<tr>
<td>55</td>
<td>55.3.2.2.9</td>
<td>195</td>
<td>10</td>
<td>87</td>
<td>Cl Ganga, Ilango Intel Corporation</td>
<td>TR</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>As per D3.1, either IDLE or Local Fault is generated during fast retrain. Currently local fault may be used to trigger link failure condition to the higher layers. At a system level such link failure conditions may be used to initiate link failover mechanisms for high availability. Asserting local fault does not unambiguously indicate if the local fault is due to link failure or fast retrain. Any timeout mechanisms to delay signaling link failure to higher layers may delay the high availability/failover features to take effect. So it is best to define a separate control code to indicate fr_active (PMA_FR_ACTIVE.indication) to the RS sublayer. This could be used to signal a fast retrain condition.</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>55.3.2.3</td>
<td>197</td>
<td>44</td>
<td>38</td>
<td>Cl Brown, Matthew Applied Micro (AMCC)</td>
<td>ER</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sentence almost sounds like LPI is triggered by completion of training. Also, successful training is indicated by pcs_data_mode.</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>55.3.4a.1</td>
<td>199</td>
<td>27</td>
<td>39</td>
<td>Cl Brown, Matthew Applied Micro (AMCC)</td>
<td>E</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Make sure that active is associated with pair, not pair and refresh_active.</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Suggested Remedy**: 1. Define a separate control code to indicate fast retrain condition to the higher layers (RS sublayer). Providing fr_active signal allows systems flexibility to implement failover/lossless characteristics. 2. For the PHYs that support fast retrain, specify an option to assert PLS_CARRIER.indication during fast retrain active that allows tx deferral.

**Suggested Remedy**: Change end of sentence to: "after the PHY has successfully completed training as indicated by pcs_data_mode equals TRUE."

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<td>199</td>
<td>36</td>
<td>40</td>
<td>Cl Brown, Matthew Applied Micro (AMCC)</td>
<td>TR</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Relevant to initial or subsequent normal retrain.</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>55.3.5.2.2</td>
<td>201</td>
<td>29</td>
<td>42</td>
<td>Cl Brown, Matthew Applied Micro (AMCC)</td>
<td>E</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LPI is indicated by LPI client and RS not MAC</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Suggested Remedy**: Change "MAC indicates" to "LPI client indicates".

**Proposed Response**

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<tr>
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<td>55.3.5.2.2</td>
<td>201</td>
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<td>Cl Brown, Matthew Applied Micro (AMCC)</td>
<td>E</td>
<td>D</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LPI is indicated by LPI client and RS not MAC</td>
<td>E</td>
<td></td>
<td></td>
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</table>

**Suggested Remedy**: Change "MAC indicates" to "LPI client indicates".

**Proposed Response**

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<td>Cl Brown, Matthew Applied Micro (AMCC)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LPI is indicated by LPI client and RS not MAC</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**Suggested Remedy**: Change "MAC indicates" to "LPI client indicates".

**Proposed Response**

---

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

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7/4/2010 3:58:37 PM
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<td>TR</td>
<td>D</td>
<td>Reduce definition to include only detection of alert signal.</td>
</tr>
<tr>
<td>E</td>
<td>D</td>
<td>Replace &quot;RX&quot; with &quot;receiver&quot;.</td>
</tr>
<tr>
<td>TR</td>
<td>D</td>
<td>The portion of the definition relating to detection of alert signal is not really clear. It is clear that alert_detect is set TRUE when the alert signal is detected. The definition of the alert detection function on page 216 only specifies when alert_detect is set. It is not clear when (or if) the alert_detect variable is ever set to FALSE. This variable is more of an event, than a state. What is the right unambiguous way to specify this.</td>
</tr>
</tbody>
</table>

**Suggested Remedy**

- Provide a mechanism or description that explains how the alert Detect variable is set to FALSE after being set TRUE. One way to resolve this is as follows. (a) In Figure 55-16, add "alert_detect = FALSE" in states "RX_INIT" and "RX_W". Define alert_detect as being set to TRUE by ALERT Detect process.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>TR</td>
<td>D</td>
<td>Replace comma at end of sentence with period.</td>
</tr>
<tr>
<td>ER</td>
<td>D</td>
<td>Change &quot;that have the fast retrain&quot; to &quot;that support the fast retrain&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comment Type</th>
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<th>Proposed Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR</td>
<td>D</td>
<td></td>
</tr>
</tbody>
</table>
Given that lpi_fr_sigtype is defined in the previous line to exist only for PHYs that support FR, it is unnecessary and somewhat confusing to qualify the IDLE state with support of fast retrain.

**Suggested Remedy**

Change first sentence to: "This variable is set to IDLE if 1.147.1 is set to 1."

**Proposed Response**

Response Status: O

---

Grammar.

**Suggested Remedy**

Change "to the eight types" to "one of the eight types"

**Proposed Response**

Response Status: O

---

**Suggested Remedy**

Change "to the eight types" to "one of the eight types"

**Proposed Response**

Response Status: O

---

**Suggested Remedy**

Change open transition to LFER_MT_INIT, replacing "!block_lock" with "!pcs_data_mode".

**Proposed Response**

Response Status: O
Cl 55 SC 55.3.5.4 P207 L34 # 56
Brown, Matthew Applied Micro (AMCC)
Comment Type E Comment Status D
Figure 55-15. Transition from TX_E to TX_L must be indicates as EEE only.
Suggested Remedy
Add dashed rectangle around transition from TX_E to TX_L.
Proposed Response Response Status O

Cl 55 SC 55.3.5.4 P209 L3 # 57
Brown, Matthew Applied Micro (AMCC)
Comment Type TR Comment Status D
Figure 55-16. Last term in transition criteria on open transition to RX_INIT is incorrect. When not in PCS_Data mode send LF either if not in fast re-train or if in fast retrain only if lpi_fr_sigtype is not IDLE.
Suggested Remedy
Change last term to: "((!(lpi_fr_sigtype==IDLE) * lpi_fr_active) + !lpi_fr_active) * !pcs_data_mode"
Proposed Response Response Status O

Cl 55 SC 55.3.5.4 P209 L3 # 58
Brown, Matthew Applied Micro (AMCC)
Comment Type ER Comment Status D
Figure 55-16. Last term in transition criteria on open transition to FR_RX_INIT could be clarified by adding brackets around comparison of lpi_fr_sigtype. Also, outer brackets are not required so they can be removed.
Suggested Remedy
Change last term to: "((lpi_fr_sigtype==IDLE) * lpi_fr_active) * !pcs_data_mode"
Proposed Response Response Status O

Cl 55 SC 55.4.1 P213 L8 # 59
Brown, Matthew Applied Micro (AMCC)
Comment Type E Comment Status D
Figure 55-17. fr_active parameter is not required for EEE nor for normal operation.
Suggested Remedy
Re-draw dashed rectangle to include only EEE signals. Employ another means to differentiate FR signals from normal and EEE signals. Add a note to indicate the signals are relevant to FR.
Proposed Response Response Status O
Cl 55  SC 55.4.2.2  P213  L 52  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  E  Comment Status  D
lower power operation is not commonly used term
SuggestedRemedy
- Change "normal and lower power operation" to "normal and LPI operation".
Proposed Response  Response Status  O

Cl 55  SC 55.4.2.2.1  P214  L 20  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  E  Comment Status  D
LDPC frames not being sent
SuggestedRemedy
- Change "LDPC frames" to "LDPC frame periods".
Proposed Response  Response Status  O

Cl 55  SC 55.4.2.2.2  P214  L 25  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  ER  Comment Status  D
Use normal form for primitive/parameter.
SuggestedRemedy
- Change "PMA_CONFIG.indication parameter config" to "PMA_CONFIG.indication(config)".
Proposed Response  Response Status  O

Cl 55  SC 55.4.2.2.2  P215  L 2  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  ER  Comment Status  D
Use normal form for primitive/parameter.
SuggestedRemedy
- Change "PMA_CONFIG.indication parameter config" to "PMA_CONFIG.indication(config)".
Proposed Response  Response Status  O

Cl 55  SC 55.4.2.2.2  P215  L 22  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  ER  Comment Status  D
The wake signal is not properly defined here. Either fix or refer to official definition.
SuggestedRemedy
- Change sentence to: "The alert signal is followed by a wake signal as specified in 55.3.2.9a."
Proposed Response  Response Status  O

Cl 55  SC 55.4.2.2.2  P215  L 37  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  ER  Comment Status  D
Use normal form for primitive/parameter.
SuggestedRemedy
- Change "PMA_CONFIG.indication parameter config" to "PMA_CONFIG.indication(config)".
Proposed Response  Response Status  O

Cl 55  SC 55.4.2.2.2  P215  L 42  
Brown, Matthew  Applied Micro (AMCC)
Comment Type  ER  Comment Status  D
Use normal form for primitive/parameter.
SuggestedRemedy
- Change "PMA_CONFIG.indication parameter config" to "PMA_CONFIG.indication(config)".
Proposed Response  Response Status  O
<table>
<thead>
<tr>
<th>Comment Type</th>
<th>Suggested Remedy</th>
<th>Proposed Response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T</strong></td>
<td>Similar requirements exist for fast retrain.</td>
<td>Add sentence, “For PHYs that support fast retrain, further requirements for this transition are described in 55.4.2.5.15.”</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td></td>
<td></td>
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</table>

**Proposed Response**

**Response Status**: O

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<table>
<thead>
<tr>
<th>Comment Type</th>
<th>Suggested Remedy</th>
<th>Proposed Response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T</strong></td>
<td>Can also go to the LPI transmit mode.</td>
<td>Add the following &quot;... and to the LPI transmit mode under control of the local LPI client.&quot;.</td>
</tr>
<tr>
<td><strong>D</strong></td>
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**Proposed Response**

**Response Status**: O

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<tr>
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<th>Proposed Response</th>
</tr>
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<tbody>
<tr>
<td><strong>E</strong></td>
<td>Grammar.</td>
<td>Change &quot;THP turn&quot; to &quot;THP turns&quot;.</td>
</tr>
<tr>
<td><strong>D</strong></td>
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**Proposed Response**

**Response Status**: O

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<tbody>
<tr>
<td><strong>ER</strong></td>
<td>Reference to incorrect figure.</td>
<td>Change 55-13a to 55-13.</td>
</tr>
<tr>
<td><strong>D</strong></td>
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</table>

**Proposed Response**

**Response Status**: O
<table>
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<tr>
<th>Cl</th>
<th>SC</th>
<th>Comment Type</th>
<th>Comment Status</th>
<th>Suggested Remedy</th>
<th>Proposed Response</th>
<th>Response Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>55</td>
<td>TR</td>
<td>D</td>
<td>Relevance to initial or subsequent normal retrain.</td>
<td></td>
<td>O</td>
</tr>
<tr>
<td></td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O</td>
</tr>
<tr>
<td>55</td>
<td>55</td>
<td>E</td>
<td>D</td>
<td>lower power mode is not commonly used term</td>
<td></td>
<td>O</td>
</tr>
<tr>
<td></td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O</td>
</tr>
<tr>
<td>55</td>
<td>55</td>
<td>E</td>
<td>D</td>
<td>Use superscript for exponential terms.</td>
<td></td>
<td>O</td>
</tr>
<tr>
<td></td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O</td>
</tr>
<tr>
<td>55</td>
<td>55</td>
<td>ER</td>
<td>D</td>
<td>Common terminology.</td>
<td></td>
<td>O</td>
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<tr>
<td></td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O</td>
</tr>
</tbody>
</table>

**TYPE:** TR/technical required  ER/editorial required  GR/general required  T/technical  E/editorial  G/general

**COMMENT STATUS:** D/dispatched A/accepted R/rejected  RESPONSE STATUS: O/open  W/written  C/closed  U/unsatisfied  Z/withdrawn

**SORT ORDER:** Clause, Subclause, page, line
2^9, 2^5 and 2^6, 2^4 on line 45 aren't in the same format as powers of two in the transition_count paragraph above.

**Suggested Remedy**
- change to using superscript for the power

**Proposed Response**
- Response Status: O

---

**Cl 55 SC 55.4.6.1 P 220 L 33 # 81**

Brown, Matthew
- Proposed Response
- Applied Micro (AMCC)

**Comment Type** TR
- **Comment Status** D
- Figure 55-24. fr_maxwait_timer_done not defined

**Suggested Remedy**
- Define fr_max_wait_timer in 55.4.5.2

**Proposed Response**
- Response Status: O

---

**Cl 70 SC 70.2.1 P 231 L 48 # 18**

Turner, Edward J
- Proposed Response
- Gnodal Ltd

**Comment Type** E
- **Comment Status** D
- Too much deletion has led to ‘. may go into w power mode ..’

**Suggested Remedy**
- Change to ‘. may go into low power mode ..’

**Proposed Response**
- Response Status: O

---

**Cl 72 SC 72.6.4 P 266 L 12 # 5**

Anslow, Peter
- Proposed Response
- Ciena Corporation

**Comment Type** E
- **Comment Status** D
- The editing instruction says "Change the text in the 1st paragraph of section 72.6.4 to read..." but there are 4 paragraphs of changed text.

**Suggested Remedy**
- Change editing instruction to "Change 72.6.4 as follows:"

**Proposed Response**
- Response Status: O

---

**Cl 72 SC 72.7.1.4 P 244 L 31 # 10**

Bennett, Michael
- Proposed Response
- Lawrence Berkeley Na

**Comment Type** T
- **Comment Status** D
- Submitted on behalf of Iain Robertson
- This sub-clause discusses output amplitude requirements during LPI but makes no mention of common mode requirements. It should stipulate the amount by which the common mode can deviate from the non-LPI value.

**Suggested Remedy**
- Add a sentence, plus a spec in table 72-6. Suggested wording:
  "During LPI, the common mode shall be maintained to within +/- TBDmV of the pre-LPI value"

**Suggested spec in table 72-6:**
"Common mode voltage deviation (max) during LPI: TBDmV"
- Need discussion on the TBD value. For reference, PCI-E specs this as 100mV.

**Proposed Response**
- Response Status: O
Comments received

IEEE P802.3az D3.1 Energy Efficient Ethernet comments

D3.1 of 802.3az

---

Comment Type: E  Comment Status: D
802.3ba changed the title of clause 74 and also the title of 74.4.1

Suggested Remedy:
Change the title of 74 to "Forward Error Correction (FEC) sublayer for BASE-R PHYs" and the title of 74.4.1 to "Functional block diagram for 10GBASE-R PHYs"

Proposed Response: Response Status: O

---

Comment Type: E  Comment Status: D
The editing instruction is "Change 74.10.2.3 as shown below:" but only one of the three functions is shown.

Suggested Remedy:
Show the two unmodified functions in normal font.

Proposed Response: Response Status: O

---

Comment Type: E  Comment Status: D
The text starting "If the optional Energy Efficient Ethernet (EEE) capability is supported ..." has been added, but is not shown in underline font. Also, the font size (9 pt) is wrong.

Suggested Remedy:
Show the inserted text in underline and the correct size.

Proposed Response: Response Status: O

---

Comment Type: E  Comment Status: D
Subclauses 74.5.1.4 through 74.5.1.7 have been added with the insert instruction, so none of the text should be shown in underline font. However some is and some isn't underlined.

Suggested Remedy:
Remove the underline from subclauses 74.5.1.4 through 74.5.1.7

Proposed Response: Response Status: O

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<table>
<thead>
<tr>
<th>Cl</th>
<th>SC</th>
<th>P</th>
<th>L</th>
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<th>Comment Status</th>
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<th>Suggested Remedy</th>
<th>Proposed Response</th>
<th>Comments Status</th>
<th>Response Status</th>
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<tbody>
<tr>
<td>74</td>
<td>74.7.4.8</td>
<td>277</td>
<td>47</td>
<td>T</td>
<td>D</td>
<td>I believe the actual requirement here is that the hold-off timer not expire before 13.7 microseconds have passed. It could be longer since the FEC would set signal_ok to TRUE after detecting two scrambled blocks.</td>
<td>Change the first sentence to: “When rx_lpi_active is TRUE and rx_mode is set to DATA, start a hold-off timer whose duration is greater than or equal to 13.7 microseconds and enable…”</td>
<td>Brown, Matthew</td>
<td>LSI Corporation</td>
<td>Draft 3.0 Comment #174 was not implemented.</td>
</tr>
<tr>
<td>78</td>
<td>78.3</td>
<td>258</td>
<td>50</td>
<td>E</td>
<td>D</td>
<td>Use primitive/parameter name.</td>
<td>Change “the LPI_INDICATION parameter is set to DE-ASSERT in the LP_IDLE indication primitive of the LPI Client service interface” to “LP_IDLE.indication(LPI_INDICATION) is set to DE-ASSERT”</td>
<td>Brown, Matthew</td>
<td>Applied Micro (AMCC)</td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>78.3.3</td>
<td>258</td>
<td>50</td>
<td>TR</td>
<td>D</td>
<td>Draft 3.0 Comment #174 was not implemented.</td>
<td>For 100BASE-TX list 24 and 25. For 1000BASE-KX list 70, 35. For 10GBASE-KX4 list 71, 48. For 10GBASE-KR list 72, 51, 49.</td>
<td>Brown, Matthew</td>
<td>Applied Micro (AMCC)</td>
<td></td>
</tr>
</tbody>
</table>
| 78  | 78.6.3 | 270   | 6  | TR           | D             | When we structured the PICs on the last draft we did that after closing the comment on having a PICs for AN. There needs to be a PICs for AN, however, it should match the way we did the other requirements like timing, where it is against the appropriate clauses with the normative text for each PHY. Note that in some cases this does exist like in C40 so its worthwhile to make it consistant throughout. | - Remove the PICs entry for AN from C78  
- Adjust the text around the PICs to only reflect DLL requirements  
- Remove the corresponding shall from 78.3  
- In appropriate clauses like 28C, 28D, 73A, 24, 40, 55, 73 and/or other appropriate clauses.  
- In 78.3 point to the appropriate clauses from the step above  
- Check that this is not consistant for all PHY types (e.g. right now there is a PICs in 78.3 and 40 - AN15 - that would affect 1000BASE-T for instance. Should really be in one place | Diab, Wael | Broadcom Corporation | | O |
<table>
<thead>
<tr>
<th>Comment Type</th>
<th>E</th>
<th>Proposed Response</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested Remedy</td>
<td>Duplicated period at the end of the line</td>
<td>delete it..</td>
<td></td>
</tr>
<tr>
<td>Comment Status</td>
<td>D</td>
<td>Response Status</td>
<td>O</td>
</tr>
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