| Receive  | ed Comments   | s IEE   | E P802.3cy        | D3.0 10      | 0G+ Auto Task | Force Initia                            | al Sponsor ba                            | allot comments                    |                       |                         |
|----------|---|---|-------------------|--------------|---------------|---|--|-----------------------------------|-----------------------|-------------------------|
| CI 0     | SC 0  | P1  | LO                | #            | I-1           | C/ FM                                   | SC FM                                    | P <b>2</b>                        | L <b>1</b>            | # I-142                 |
| Hajducze | nia, Marek  | Charter Comm  | unications        |              |               | Wiencko                                 | vski, Natalie                            | General Moto                      | rs Company            |                         |
| Comment  | Type <b>G</b>   | Comment Status X  |                   |              |               | Commen                                  | t Type E                                 | Comment Status X                  |                       |                         |
|          |   | .3cw (Amendment #8) is appro  |                   |              |               | Incor                                   | rect formatting.                         |                                   |                       |                         |
|          | est that the orde<br>becomes Amen   | er of amendments be swapped, dment #8                                 | i.e., .3cy becor  | nes Amer     | ndment #9 and | Suggeste                                | dRemedy                                  |                                   |                       |                         |
|          | dRemedy   |   |                   |              |               | Rem                                     | ove "bold" style                         | from "T" in "This".               |                       |                         |
| 00       |   | nent number from #9 to #8 and   | notify .3cw of t  | he chang     | e.            | Proposed                                | l Response                               | Response Status 0                 |                       |                         |
| Proposea | Response  | Response Status <b>0</b>  |                   | -            |               |   |  |                                   |                       |                         |
|          |   |   |                   |              |               | C/ FM                                   | SC FM                                    | P <b>7</b>                        | L <b>24</b>           | # <mark>I</mark> -15    |
| C/ FM    | SC FM   | P1  | L10               | #            | I-14          | Grow, Ro                                | bert                                     | RMG Consult                       | ing                   |                         |
| Grow, Ro | bert  | RMG Consulti  | na                |              |               | Commen                                  | t Type E                                 | Comment Status X                  |                       |                         |
| Comment  |   | Comment Status X  | 19                |              |               | It loo                                  | ks like Merek ha                         | is double billing (TF editor abov | e list plus in the    | e list here).           |
| the cu   |   | this project is likely to get to Re<br>on't find any order dependency |                   |              |               | Dele                                    | dRemedy<br>e Mr. Hajduczer<br>I Response |                                   |                       |                         |
| Suggeste | dRemedy   |   |                   |              |               | FTOPOSEC                                | rresponse                                | Response Status O                 |                       |                         |
| If Mr.   | Law concurs: 1  | . renumber to Amendment 8, 2.   | remove cw fro     | m list at li | ine 28 (note  |   |  |                                   |                       |                         |
|          | w is not in propered in propered to the second s | er order now), 3. remove cw des                                       | scription on pag  | ge 12 and    | l renumber cy | C/ FM                                   | SC FM                                    | P <b>7</b>                        | L <b>24</b>           | # I-143                 |
|          | Response  | Response Status <b>O</b>  |                   |              |               | Wiencko                                 | vski, Natalie                            | General Moto                      | rs Company            |                         |
| 100000   | Recipence   |   |                   |              |               | Commen                                  |  | Comment Status X                  |                       |                         |
|          |   |   |                   |              |               |   | cipant name is d                         | luplicated. All names of officer  | s are removed fr      | rom general list except |
| C/ FM    | SC FM   | P1  | L 33              | #            | I-16          | one.                                    | 1 <b>0</b> /                             |                                   |                       |                         |
| Grow, Ro | bert  | RMG Consulti  | ng                |              |               | 00                                      | dRemedy                                  | "Ilaiduanania Manalu" in nanan    |                       | ad above as the Taal.   |
| Comment  | tType E   | Comment Status X  |                   |              |               |   | e Editor-in-Chief                        | "Hajduczenia, Marek" in gener     | al list it is include | ed above as the Task    |
| With     | a 22 Dec 2022 I   | ballot close, it is unlikely D3.1 w                                   | ill be created th | nis year.    |               | Proposed                                | l Response                               | Response Status <b>O</b>          |                       |                         |
| Suggeste | dRemedy   |   |                   |              |               | , |  |                                   |                       |                         |
|          |   | nat in addition to the title page a                                   |                   |              |               |   |  |                                   |                       |                         |
| needs    | s to be updated   | at page 1, line 33 and page 2 li                                      | ne 46, and in p   | age foote    | r.            |   |  |                                   |                       |                         |

Response Status 0

Proposed Response

Pa **7** Li **24** 

| Received Comments   | IEEE P80               | 2.3cy D3.     | 0 10G+ Auto Task F | Force Initial | Sponso                    | r ballot  | comments        |              |                   |                                      |
|---|------------------------|---------------|--------------------|---------------|---------------------------|-----------|-----------------|--------------|-------------------|--------------------------------------|
| C/ FM SC FM   | P10 L4                 |               | # I-17             | C/ <b>45</b>  | SC 45.                    | 2.1.244.  | 1               | P26          | L 23              | # I-103                              |
| Grow, Robert RM   | MG Consulting          |               |                    | Ran, Adee     |                           |           | Cis             | sco System   | s, Inc.           |                                      |
| Comment Type ER Comment Stat  | tus X                  |               |                    | Comment       | Туре Т                    |           | Comment Stat    | us X         |                   |                                      |
| This boxed paragraph is published in the be IEEE Std 802.3cy-202x.                      | e approved standard    | , so the self | reference should   |               | Solomon i<br>2.2.15 for 2 |           |                 | in 149.3.2.  | 2.15 for MultiGB  | ASE-T1 and                           |
| SuggestedRemedy   |                        |               |                    | Put the       | dofinition                |           |                 | 4 407 inclu  |                   | Γ1 (in addition to                   |
| Change P802.3cy to IEEE Std 802.3cy-2   | 202x.                  |               |                    |               |                           |           | -T1, and 10GBA  |              | Ues 25GBASE-      |                                      |
| Proposed Response Response Stat   | tus <b>O</b>           |               |                    | Simila        | ly in the s               | ubseque   | nt sentence and | in other pl  | aces (e.g., 45.2. | 1.246.1, 45.2.1.246.2)               |
|   |                        |               |                    | Suggested     | Remedy                    |           |                 |              |                   |                                      |
| C/ 45 SC 45.2.1.16  | P24 L4                 | 4             | # 1-30             | Chang         | e both inst               | tances of | f "MultiGBASE-  | T1" to "2.50 | GBASE-T1, 5GB     | ASE-T1, and                          |
| Zimmerman, George Ci  | isco Systems, Inc.,C   | ME Consulti   | ng.CommScope.M     | 10GBA         | SE-T1".                   |           |                 |              |                   |                                      |
| Comment Type E Comment Star   |                        |               | 5,                 | Implen        | nent elsew                | here as   | necessary.      |              |                   |                                      |
| Table 45-19 is significantly separated fro  | om the editing instrue | ction.        |                    | Proposed I    |                           |           | Response Stat   | IS 0         |                   |                                      |
| SuggestedRemedy   | -                      |               |                    |               | leepenee                  |           | neoponee olali  |              |                   |                                      |
| Change pagination (e.g., force new page<br>its editing instruction and before editing i |                        |               | 45-19 stays with   | C/ <b>45</b>  | SC 45.                    | 2.1.244.′ | 1               | P <b>26</b>  | L <b>23</b>       | # I-31                               |
| Proposed Response Response Stat   | tus <b>O</b>           |               |                    | Zimmerma      | n, George                 |           | Cis             | sco System   | s, Inc.,CME Cor   | nsulting,CommScope,I                 |
|   |                        |               |                    | Comment       | Туре Е                    |           | Comment Stat    | us X         |                   |                                      |
| C/ 45 SC 45.2.1.16  | P <b>24</b> L <b>4</b> | 7             | # I-144            |               | SE-T1 is a mments m       |           |                 | Y as well. T | his occurs in mu  | Iltiple places in clause             |
| Wienckowski, Natalie Ge   | eneral Motors Comp     | any           |                    | Suggested     | Remedy                    |           |                 |              |                   |                                      |
| Comment Type E Comment Stat   | tus X                  |               |                    |               |                           |           |                 |              |                   | BASE-T1." to "for<br>or 25GBASE-T1." |
| SuggestedRemedy   |                        |               |                    | Proposed I    | Response                  |           | Response State  | us <b>O</b>  |                   |                                      |
| Change: as shown follows<br>To: as follows  |                        |               |                    |               |                           |           |                 |              |                   |                                      |
| Proposed Response Response Stat   | hua <b>O</b>           |               |                    |               |                           |           |                 |              |                   |                                      |

Pa **26** Li **23** 

| C/ <b>45</b> | SC 45.2.1.244.1  | P 26                 | L 29                | # I-104  | C/ 45           | SC 45.2.1.24                              | 45.1         | P <b>27</b>                           | L 10              | # I-34                              |
|--------------|--|----------------------|---------------------|--|-----------------|---|--------------|---------------------------------------|-------------------|-------------------------------------|
| Ran, Adee    |  | Cisco System         | ns, Inc.            |  | Zimmerm         | an, George                                |              | Cisco Syster                          | ns, Inc.,CME Co   | onsulting,CommScope,                |
| Comment T    | ype <b>TR</b> Comm   | ent Status X         |                     |  | Comment         | Type E                                    | Commer       | nt Status X                           |                   |                                     |
|              | 1.2311.12:11 are set to th                                 | ese undefined valu   | ies, the PHY will   | communicate these  | 25GB            | BASE-T1 is a MU                           | LTIGBASE-1   | 1 PHY as well.                        | (MGBT1)           |                                     |
| values       | to the link partner"                                       |                      |                     |  | Suggeste        | dRemedy                                   |              |                                       |                   |                                     |
| The ter      | m "undefined" (and some                                    | times "not defined"  | ) seems incorre     | ct here - the values are   |                 |   |              |                                       |                   | BASE-T1." to "for                   |
|              | , but are invalid in some o<br>" for values that are not a |                      | text in 45.2.1 se   | eems to use the word   |                 | BASE-T1, 5GBAS                            | SE-T1, and 1 | 0GBASE-T1; ar                         | nd 165.3.2.4.5 fo | r 25GBASE-T1."                      |
| invalio      | for values that are not a                                  | llowed.              |                     |  | Proposed        | Response                                  | Response     | e Status <b>O</b>                     |                   |                                     |
|              | vill" is deprecated and sho                                |                      |                     |  |                 |   |              |                                       |                   |                                     |
|              | invalid ("undefined"), say<br>ment but rather allowed b    |                      |                     | is likely not a  | CI <b>45</b>    | SC 45.2.1.24                              | 44.1         | P <b>27</b>                           | L <b>24</b>       | # I-32                              |
| Also it      | is not stated how a receiv                                 | ver that receives an | invalid value ar    | d does not support it is   | Zimmerm         | an, George                                |              | Cisco Syster                          | ns, Inc.,CME Co   | onsulting,CommScope,                |
|              | ed to behave. To prevent                                   |                      |                     |  | Comment         | Туре Е                                    | Commer       | nt Status X                           |                   |                                     |
| should       | be stated as "undefined".                                  |                      |                     |  | 25GB            | ASE-T1 is a MU                            | LTIGBASE-1   | 1 PHY as well.                        | (MGBT1)           |                                     |
| uggestedl    |  |                      |                     |  | Suggeste        | dRemedy                                   |              |                                       |                   |                                     |
|              | e all instances of "undefine<br>Table 45-206 and Table 4   |                      | d" in 45.2.1.244    | .1 and 45.2.1.245.1,   |                 | ge inserted text "<br>BASE-T1, 5GBAS      |              |                                       |                   | BASE-T1." to "for<br>r 25GBASE-T1." |
| Change       | e "will" to "may" in 45.2.1.2                              | 244.1. Change "will  | l indicate" to "ind | licates" in 45.2.1.245.1.  | Proposed        | Response                                  | Response     | e Status <b>O</b>                     |                   |                                     |
|              | the following sentence to                                  |                      |                     |  |                 | 00.17.1.1                                 |              | <b>D</b>                              |                   |                                     |
|              | paragraph of 45.2.1.245. ve request is undefined".         | 1: "The behavior of  | a receiver that     | receives an invalid  | CI <b>45</b>    | SC 45.2.1.24                              | 46.1         | P <b>27</b>                           | L <b>26</b>       | # 1-35                              |
| Proposed F   | •  | nse Status <b>O</b>  |                     |  |                 | an, George                                | _            | , , , , , , , , , , , , , , , , , , , | ns, Inc.,CME Co   | onsulting,CommScope,                |
| , opecca ,   | Kooper   |                      |                     |  | Comment<br>25GB | t <i>Type</i> <b>E</b><br>BASE-T1 is a MU |              | nt Status X                           | (MGBT1)           |                                     |
| <b>45</b>    | SC 45.2.1.245.1  | P <b>27</b>          | L <b>9</b>          | # I-33   | Suggeste        | dRemedy                                   |              |                                       |                   |                                     |
| Zimmermar    | n. Georae  | Cisco Svsterr        | s. IncCME Co        | nsulting,CommScope,M   |                 |   |              |                                       |                   | 165-11 for 25GBASE-                 |
| Comment T    | ype E Comm   | ent Status X         |                     | <b>3</b> , <b>1</b> |                 | o "for 2.5GBASE<br>r 25GBASE-T1."         | -T1, 5GBAS   | E-T1, and 10GB                        | ASE-T1; and in    | 165.5.1 and Table 165               |
| 25GBA        | SE-T1 is a MULTIGBASE                                      | -T1 PHY as well. (   | MGBT1)              |  | Proposed        | Response                                  | Response     | e Status <b>O</b>                     |                   |                                     |
| Suggestedl   | Remedy   |                      |                     |  |                 |   |              |                                       |                   |                                     |
|              | e inserted text "for MultiGE<br>ASE-T1, 5GBASE-T1, and     |                      |                     |  |                 |   |              |                                       |                   |                                     |
| 2.5GBA       |  |                      |                     |  |                 |   |              |                                       |                   |                                     |

Pa **27** Li **26** 

| Received Comments |
|-------------------|
|-------------------|

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| C/ 45 SC 45.2.1   | .246.2          | P 27                                   | L 36             | # 1-36               | C/ <b>45</b>  | SC 45.2.1.24  | 6.3 P 27   | L <b>44</b>   | # <mark>I-</mark> 37  |
|---|-----------------|--|------------------|----------------------|---|---|--|---|---|
| Zimmerman, George   |                 | Cisco System                           | ns, Inc.,CME Cor | nsulting,CommScope,M | Zimmerma  | n, George   | Cisco Syst   | ems, Inc.,CME Co  | onsulting,CommScope,M   |
| Comment Type E  | Comme           | ent Status X                           |                  |                      | Comment   | Туре Е  | Comment Status X   |   |   |
| 25GBASE-T1 is a l   | /ULTIGBASE      | -T1 PHY as well. (                     | (MGBT1)          |                      | 25GB/   | ASE-T1 is a MUL   | TIGBASE-T1 PHY as wel  | l. (MGBT1)  |   |
| SuggestedRemedy   |                 |  |                  |                      | Suggested   | lRemedy   |  |   |   |
| Change inserted te<br>2.5GBASE-T1, 5GB  |                 |  |                  |                      |   |   | or MultiGBASE-T1 and 16<br>E-T1, and 10GBASE-T1;   |   |   |
| Proposed Response   | Respon          | se Status O                            |                  |                      | Proposed  | Response  | Response Status O  |   |   |
| C/ 45 SC 45.2.1   | .246.2          | P <b>27</b>                            | L37              | # I-105              | C/ <b>45</b>  | SC 45.2.3.87.   | 2 P28  | L 12  | # I-38  |
| Ran, Adee   |                 | Cisco System                           | ns, Inc.         |                      | Zimmerma  | in, George  | Cisco Syst   | ems, Inc.,CME Co  | onsulting,CommScope,M   |
| Comment Type E  | Comme           | ent Status X                           |                  |                      | Comment   | Type TR   | Comment Status X   |   |   |
| Also in 45.2.1.246.3<br>SuggestedRemedy<br>Change to "in 165.3<br>Proposed Response | 3.2.2.20 for 25 | GBASE-T1", in bo<br>se Status <b>O</b> | oth places.      |                      | definiti<br>which<br>frames<br>times<br>blocks<br>anywa | ion says within or<br>never starts (or re<br>s. RFRX_CNT_L<br>in clause 149, and<br>out of 88 blocks<br>ys. (note - this ap | not appear to control the later fer_timer interval, this esets) rfer_timer appears IMIT is a constant set to 8 d 732 160 bit times in clar received according to the ppears to be an error in the istent requirement in clau | is in disagreemen<br>to count RFRX_C<br>8 frames. This eq<br>use 165. Note the<br>state diagram, whe<br>base standard a | t with the state diagram,<br>NT_LIMIT RS-FEC<br>Juates to 281 600 bit<br>e error rate is still 16<br>hich would be high |
| C/ 45 SC 45.2.1   | .246.2          | P 27                                   | L 38             | # I-145              | Suggested   | lRemedy   |  |   |   |
| Vienckowski, Natalie  |                 | General Moto                           | ors Company      |                      |   | ```   | ences): Change "within on  | e rfer_timer interv   | al" to "within 88 RS-FEC  |
| Comment Type E<br>missing "for"   | Comme           | ent Status X                           |                  |                      |   | 49.3.7.2.2 to the a   | draft, changing the definiti<br>ne rfer_cnt reaches 16 err   |   |   |
| SuggestedRemedy   |                 |  |                  |                      |   | al." to "Boolean va<br>FRX CNT LIMIT  | ariable that is asserted TR  | UE when the rfer_   | _cnt reaches 16 errors in   |
|   | 165 2 2 2 2 20  | and 25GBASE-T1                         | 1.               |                      |   |   | _timer at 165.3.7.2.3 (P67   | L35 to 38).   |   |
| Insert "for" betweer<br>Also on P27L45.   | 103.3.2.2.20    |  |                  |                      | Proposed  | Posponso  | Response Status <b>O</b>   |   |   |

Pa **28** Li **12** 

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| CI 45 SC 45.2.3                        | <b>3.87.2</b> <i>P</i>                               | 28 <i>L</i> 13          | # 1-39                    | C/ 105           | SC 105.1.3                             | P 33   | L <b>48</b>              | # I-106                 |
|--|--|-------------------------|---------------------------|------------------|--|--|--------------------------|-------------------------|
| Zimmerman, George                      | Cisc   | o Systems, Inc.,CME     | Consulting,CommScope,M    | Ran, Adee        |  | Cisco  | Systems, Inc.            |                         |
| Comment Type E                         | Comment Statu  | S <b>X</b>              |                           | Comment          | Туре Е                                 | Comment Status   | Х                        |                         |
|  | efine the hi_rfer variable 149.3.8.1 so the addition |                         | t by reference to the     | The ec           | litorial instructio                    | n is unclear (a reader o   | of this amendment m      | ay not have 802.3cz).   |
| SuggestedRemedy                        |  |                         |                           |                  |  |  |                          | 1.2, the new paragraph  |
| delete "and 165.3.8                    | 3"   |                         |                           | 802.30           |  | ld appear after the par  | agraph for 25GBASE       | E-AU (Inserted by       |
| Proposed Response                      | Response Status                                      | Ο                       |                           | Suggested        | Remedy                                 |  |                          |                         |
|  |  |                         |                           | Chang<br>modifie | e the editorial in<br>ed by IEEE Std 3 | struction to "Insert a n<br>802.3cz-202x) as follow  | ew paragraph at the vs". | end of 105.1.3 (as      |
| CI 78 SC 78.5                          | Р  | 30 L10                  | # I-81                    | Proposed         | -                                      | Response Status  |                          |                         |
| Jonsson, Ragnar                        | Mary   | vell Semiconductor, Inc |                           |                  |  |  |                          |                         |
| Comment Type TR                        | Comment Status                                       | 5 <b>X</b>              |                           |                  |  |  |                          |                         |
| Values for case-1 a                    | and case-2 are incorrec                              | in table 78-4.          |                           | C/ 105           | SC 105.1.3                             | P 33   | L 51                     | # I-107                 |
| SuggestedRemedy                        |  |                         |                           | Ran, Adee        |  | Cisco  | Systems, Inc.            |                         |
| Change values for                      | case-1 to 15.9744, 15.9                              | 744, and 10.6496. Ch    | ange values for case-3 to | Comment          | Type <b>TR</b>                         | Comment Status   | Х                        |                         |
| 43.9296, 43.9296, 4                    | and 38.6048.   |                         |                           |                  |  | ents and baseband n  |                          |                         |
| Proposed Response                      | Response Status                                      | Ο                       |                           |                  | ed pair of condu                       | ngle balanced pair of c<br>uctors"   | conductors for trans     | smission on a single    |
| C/ 165 SC 165.1                        | . <b>3</b> P   | 31 <i>L</i> 31          | # 1-40                    | This te          | ext is unnecessa                       | rily wordy.  |                          |                         |
| Zimmerman, George                      | Cisc   | o Systems Inc. CME (    | Consulting,CommScope,M    |                  |  |  |                          | unication over a point- |
| Comment Type E                         | Comment Statu  |                         | Jonsulang, Commocope, M   |                  | ingle balanced p<br>ctors is the base  | pair of conductors"; the   | point-to-point single    | balanced pair of        |
| 21                                     |  |                         | , so "each" is redundant. | conduc           |  | banu medium.   |                          |                         |
|  |  | and to only one put     |                           | It is su         | fficient to mention                    | on "single balanced pa   | ir of conductors" onc    | e.                      |
| SuggestedRemedy<br>delete "on each pai |  |                         |                           | Suggested        | Remedy                                 |  |                          |                         |
| ·                                      |  |                         |                           |                  |  | new paragraph to read  |                          |                         |
| Proposed Response                      | Response Status                                      | 0                       |                           | Sublay<br>comm   | ver (PCS) and P<br>unication at 25G    | ents Physical Layer dev<br>hysical Medium Attach<br>b/s over a point-to-poi<br>eed-Solomon FEC and | ment (PMA) sublaye       | er, for data            |
|  |  |                         |                           | Proposed I       | Response                               | Response Status  | 0                        |                         |
|  |  |                         |                           | •                | •                                      |  | -                        |                         |

Pa **33** Li **51** 

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| C/ 105 SC 105.1.3  | P34  | L1  | # I-108                                  | C/ 165 SC 165.1   | P 36   | L 10   | # 1-7   |
|--|--|---|--|---|--|--|---|
| Ran, Adee  | Cisco System   |   | " <u>I</u> -100                          | Grow, Robert  | RMG Consul   |  | " []-1  |
| Comment Type E   | Comment Status X   | 15, 1110.   |  | Comment Type TR   | Comment Status X   | iiiig  |   |
| 51   | nati order (e.g. in Table 125–   | 1), single twiste                                 | d pair PHYs are listed                   | Incorrect use of acror<br>802.3-2022, 1.5 says  | nym PHY in text "25GBASE-T<br>: "PHY Physical Layer devic<br>ere the optional Autonegotiation  | e (PHY)". Also, t  | the text is inconsistent  |
|  | w for 25GBASE-T" to "after th  | ne row for 25GB                                   | ASF-T"                                   | SuggestedRemedy   |  |  |   |
| Proposed Response  | Response Status <b>O</b>   |   |  | Physical Layer (PHY)  | ne corresponding PCS, PMA s<br>)." to "Together, the correspon<br>ayers comprise a 25GBASE-T   | ding PCS, PMA,   | and optional  |
| C/ 105 SC 105.2  | P34  | L 20  | # I-109                                  | Proposed Response   | Response Status O  |  |   |
| Ran, Adee<br>Comment Type <b>E</b>   | Cisco System<br>Comment Status X   | ns, Inc.  |  | C/ 165 SC 165.1   | P36  | L 16   | # 1-93  |
| 51   | - is always a local of surface that  |   |  |   |  | A ' - (  |   |
| The editorial instruction  | n is phrased out of order; the   | table has been                                    | modified by 802.3cz,                     | Rolfe Benjamin  | Blind Crook  | 201010100  |   |
| not the clauses.<br>SuggestedRemedy  |  |   | · · ·                                    |   | Blind Creek <i>A</i><br>Comment Status X<br>cribe an optional behavior (req  | quirement) within  |   |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o  | IEEE Std 802.3cz-202x)" after the instruction.   |   | · · ·                                    | Comment Type <b>T</b><br>"may" is used to deso<br>standard. How the st  | Comment Status X<br>cribe an optional behavior (req<br>andard is used is not within so<br>ing a possibility with respect to  | uirement) within cope of the stand   | ard. As an informative  |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o  | IEEE Std 802.3cz-202x)" afte   |   | · · ·                                    | Comment Type T<br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy  | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to   | uirement) within cope of the stand   | ard. As an informative  |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response   | IEEE Std 802.3cz-202x)" after the instruction.   |   | · · ·                                    | Comment Type T<br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can  | Comment Status X<br>cribe an optional behavior (req<br>andard is used is not within so<br>ing a possibility with respect to  | uirement) within cope of the stand   | ard. As an informative  |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>C/ 105 SC 105.5<br>Ran, Adee   | IEEE Std 802.3cz-202x)" afte<br>f the instruction.<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>35</b><br>Cisco System  | er "Table 105-2'<br><i>L</i> <b>21</b>            | ", and delete the same                   | Comment Type T<br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy  | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to   | uirement) within cope of the stand   | ard. As an informative  |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>Cl 105 SC 105.5<br>Ran, Adee   | IEEE Std 802.3cz-202x)" afte<br>f the instruction.<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>35</b><br>Cisco System<br><i>Comment Status</i> <b>X</b>  | er "Table 105-2'<br><i>L</i> <b>21</b>            | ", and delete the same                   | Comment Type T<br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can  | Comment Status X<br>cribe an optional behavior (req<br>andard is used is not within so<br>ing a possibility with respect to  | uirement) within cope of the stand   | ard. As an informative  |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>Cl 105 SC 105.5<br>Ran, Adee<br>Comment Type E<br>Table 105-3 is also mo   | IEEE Std 802.3cz-202x)" afte<br>f the instruction.<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>35</b><br>Cisco System<br><i>Comment Status</i> <b>X</b>  | er "Table 105-2'<br><i>L</i> <b>21</b>            | ", and delete the same                   | Comment Type <b>T</b><br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can<br>Proposed Response  | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to<br>n"<br><i>Response Status</i> <b>O</b>  | uirement) within t<br>cope of the stand<br>o the use of this s   | ard. As an informative tandard. The correct                     |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>Cl 105 SC 105.5<br>Ran, Adee<br>Comment Type E<br>Table 105-3 is also mo<br>SuggestedRemedy                            | IEEE Std 802.3cz-202x)" afte<br>f the instruction.<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>35</b><br>Cisco System<br><i>Comment Status</i> <b>X</b>  | er "Table 105-2<br><i>L</i> <b>21</b><br>Is, Inc. | ", and delete the same<br># <u>I-110</u> | Comment Type T<br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can<br>Proposed Response<br>Cl 165 SC 165.1.1  | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to<br>n"<br>Response Status <b>O</b><br>P36  | uirement) within t<br>cope of the stand<br>o the use of this s   | ard. As an informative tandard. The correct                     |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>Cl 105 SC 105.5<br>Ran, Adee<br>Comment Type E<br>Table 105-3 is also mo<br>SuggestedRemedy<br>Insert "(as modified by | IEEE Std 802.3cz-202x)" afte<br>f the instruction.<br>Response Status <b>O</b><br>P <b>35</b><br>Cisco System<br>Comment Status <b>X</b><br>odified by 802.3cz.  | er "Table 105-2<br><i>L</i> <b>21</b><br>Is, Inc. | ", and delete the same<br># <u>I-110</u> | Comment Type T<br>"may" is used to desc<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can<br>Proposed Response<br>CI 165 SC 165.1.1<br>Ran, Adee<br>Comment Type E   | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to<br>n"<br>Response Status <b>O</b><br>P36<br>Cisco System  | uirement) within t<br>cope of the stand<br>o the use of this s<br><i>L</i> 28<br>ms, Inc.                  | ard. As an informative tandard. The correct                     |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>CI 105 SC 105.5<br>Ran, Adee<br>Comment Type E<br>Table 105-3 is also mo<br>SuggestedRemedy<br>Insert "(as modified by | IEEE Std 802.3cz-202x)" after<br>f the instruction.<br>Response Status <b>O</b><br>P <b>35</b><br>Cisco System<br>Comment Status <b>X</b><br>odified by 802.3cz.<br>IEEE Std 802.3cz-202x)" after                      | er "Table 105-2<br><i>L</i> <b>21</b><br>Is, Inc. | ", and delete the same<br># <u>I-110</u> | Comment Type T<br>"may" is used to desc<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can<br>Proposed Response<br>Cl 165 SC 165.1.1<br>Ran, Adee<br>Comment Type E<br>"The term 'MultiGBAS   | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to<br>n"<br>Response Status O<br>P36<br>Cisco Syster<br>Comment Status X                                   | uirement) within t<br>cope of the stand<br>o the use of this s<br><i>L</i> 28<br>ms, Inc.                  | ard. As an informative tandard. The correct                     |
| not the clauses.<br>SuggestedRemedy<br>Insert "(as modified by<br>phrase from the end o<br>Proposed Response<br>Cl 105 SC 105.5<br>Ran, Adee<br>Comment Type E<br>Table 105-3 is also mo<br>SuggestedRemedy                            | IEEE Std 802.3cz-202x)" after<br>f the instruction.<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>35</b><br>Cisco System<br><i>Comment Status</i> <b>X</b><br>odified by 802.3cz.<br>IEEE Std 802.3cz-202x)" after | er "Table 105-2<br><i>L</i> <b>21</b><br>Is, Inc. | ", and delete the same<br># <u>I-110</u> | Comment Type T<br>"may" is used to deso<br>standard. How the st<br>statement this is stati<br>word for that is "can".<br>SuggestedRemedy<br>Change "may" to "can<br>Proposed Response<br>Cl 165 SC 165.1.1<br>Ran, Adee<br>Comment Type E<br>"The term 'MultiGBAS<br>Commas would make<br>SuggestedRemedy | Comment Status X<br>cribe an optional behavior (req<br>tandard is used is not within so<br>ing a possibility with respect to<br>n"<br>Response Status O<br>P36<br>Cisco Syster<br>Comment Status X<br>SE-T1' when used in this claus | uirement) within t<br>cope of the stand<br>o the use of this s<br><i>L</i> 28<br>ms, Inc.<br>se refers to" | ard. As an informativ<br>tandard. The correct<br># <u>I-111</u> |

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| C/ 165 SC 165.1.2  | P 36  | L 34              | # I-112                | C/ 165                    | SC 165.1.3                            | P 38   | L <b>7</b>        | # I-114               |
|--|---|-------------------|------------------------|---------------------------|---------------------------------------|--|-------------------|-----------------------|
| Ran, Adee  | Cisco System  | s, Inc.           |                        | Ran, Adee                 |                                       | Cisco Syste  | ems, Inc.         |                       |
| Comment Type E   | Comment Status X  |                   |                        | Comment                   | Type <b>TR</b>                        | Comment Status X   |                   |                       |
| "The relationship are  | e shown" - mismatch   |                   |                        |                           |                                       | tion for reducing power cons                                   |                   |                       |
| SuggestedRemedy  |   |                   |                        |                           |                                       | w link utilization (identified bable reduce power (by unspe    |                   | ans), such that a PHY |
| Change "are shown" to  | o "is shown"  |                   |                        | 01113 p                   |                                       |  | concu means).     |                       |
| Proposed Response  | Response Status <b>O</b>  |                   |                        | Even i                    | f EEE is suppor                       | ted, a device does not nece                                    | ssarily save powe | ŧ <b>r.</b>           |
|  |   |                   |                        | Suggested                 | lRemedy                               |  |                   |                       |
| C/ 165 SC 165.1.2  | P36   | L 35              | # <mark>I-8</mark>     | indicat                   |                                       | uce power consumption due<br>link utilization, providing op    |                   |                       |
| Grow, Robert<br>Comment Type <b>TR</b>                       | RMG Consult<br>Comment Status X   | C C               |                        | Proposed                  | Response                              | Response Status O  |                   |                       |
| The PCS and PMA on<br>present.                               | ly connect to the medium whe  | en the optional A | AN sublayer is not     | C/ 165                    | SC 165.1.3                            | P38  | L 12              | # <b>I-4</b> 1        |
| clause, while the optio                                      | ′ sublayers shown shaded in F<br>onal Auto-Negotiation sublayer<br>BASE-T1 PHY connects one C | for a 25GBASE     | E-T1 PHY is defined in |                           | <i>Type</i> <b>E</b><br>DAM for 25GBA | Cisco Syste<br>Comment Status X<br>SE-T1 information is exchar |                   | onsulting,CommScope,I |
| Proposed Response  | Response Status 0   |                   |                        | Suggested<br>Chang<br>T1" | ,                                     | 25GBASE-T1 information"  | to "The OAM info  | rmation for 25GBASE-  |
| C/ 165 SC 165.1.3  | P37   | L 31              | # I-113                | Proposed                  | Response                              | Response Status <b>O</b>                                       |                   |                       |
| Ran, Adee<br>Comment Type <b>T</b><br>There is only one pair | Cisco System<br>Comment Status X<br>in the medium of this PHY.                                | s, Inc.           |                        |                           |                                       |  |                   |                       |
| SuggestedRemedy<br>Delete "on each pair".                    |   |                   |                        |                           |                                       |  |                   |                       |
| Proposed Response  | Response Status 0   |                   |                        |                           |                                       |  |                   |                       |
|  |   |                   |                        |                           |                                       |  |                   |                       |

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| C/ <b>165</b> S   | SC 165.1.3  | P 38   | L13  | # I-115  | C/ 165  | SC 165.1.3.1  | P 38  | L <b>29</b>         | # I-116              |
|---|---|--|--|--|---|---|---|---------------------|----------------------|
| Ran, Adee   |   | Cisco System   | s, Inc.  |  | Ran, Adee   | •   | Cisco Syster  | ms, Inc.            |                      |
| Comment Type  | e TR  | Comment Status X   |  |  | Comment   | Type <b>TR</b>  | Comment Status X  |                     |                      |
| The term "<br>band  | "out of band" i   | is defined in 1.4.442 as "usin   | g a frequency th   | nat is within the pass   | "the P0   | CS receives eigh  | t 25GMII data octets"   |                     |                      |
| of the trans<br>transmission  |   | lity but outside a frequency ra  | ange normally u  | sed for data   | These<br>Suggested  | could be either o   | data or control.  |                     |                      |
| The OAM   | signaling doe   | es not match this definition; or   | the contrary, it   | t is in-band, per the  | 00  | a "data".   |   |                     |                      |
|   |   | ithin the bandwidth of the info  |  |  | Proposed I  | Response  | Response Status 0   |                     |                      |
|   |   | nces of this incorrect use of "  |  |  |   |   |   |                     |                      |
| which shou  | ould be dealt w   | vith through maintenance; bu   | t a new clause s   | should be correct.   | C/ 165  | SC 165.1.3.1  | P 38  | L <b>35</b>         | # <u>I-58</u>        |
| (See comr   | ment R1-9 ag  | ainst P802.3cz D3.1)   |  |  | Jonsson, R  | Ragnar  | Marvell Sem   | iconductor, Inc.    |                      |
| SuggestedRen  | medy  |  |  |  | Comment   | Туре Е  | Comment Status X  |                     |                      |
|   |   | 25GBASE-T1 information is e  |  | een two 25GBASE-T1   | "an" sh   | hould be used fo  | r 8460-bit block  |                     |                      |
|   |   |  |  |  |   |   |   |                     |                      |
|   |   |  |  | data stream" to "The   | Suggested   | Remedy  |   |                     |                      |
| OAM for 2   | 25GBASE-T1  | is, outside of the specified 25<br>information is exchanged bet<br>he 25 GB/s Ethernet data stre   | ween two 25GB  |  | Suggested<br>change   | 2   | ck" to "an 8460-bit block"                                    |                     |                      |
| OAM for 2<br>by interlea  | 25GBASE-T1 aving it with th   | information is exchanged bet   | ween two 25GB<br>am".  |  | 00  | e "a 8460-bit blo   | ck" to "an 8460-bit block"<br><i>Response Status</i> <b>O</b> |                     |                      |
| OAM for 2<br>by interlea<br>Alternative   | 25GBASE-T1<br>aving it with th<br>ely, delete the   | information is exchanged bet<br>the 25 GB/s Ethernet data stre   | ween two 25GB<br>am".  |  | change  | e "a 8460-bit blo   |   |                     |                      |
| OAM for 2<br>by interlea<br>Alternative   | 25GBASE-T1<br>aving it with th<br>ely, delete the   | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>e sentence to avoid the "band  | ween two 25GB<br>am".  |  | change  | e "a 8460-bit blo   | Response Status O   | L 35                | # <u>l-146</u>       |
| OAM for 2<br>by interlea<br>Alternative<br>Proposed Res   | 25GBASE-T1<br>aving it with th<br>ely, delete the   | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>e sentence to avoid the "band  | ween two 25GB<br>am".  |  | change<br>Proposed I  | e "a 8460-bit blo<br>Response<br>SC <b>165.1.3.1</b>  | Response Status 0<br>P38                                      | L 35<br>ors Company | # <u>l-146</u>       |
| OAM for 2<br>by interlea<br>Alternative<br>Proposed Res   | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC <b>165.1.3</b>  | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>e sentence to avoid the "band<br>Response Status <b>O</b><br>P38   | ween two 25GB<br>am".<br>" terms.<br><i>L</i> 19   | BASE-T1 PHYs in-band,<br># <u>I-42</u>   | change<br>Proposed I<br>Cl 165  | e "a 8460-bit blo<br>Response<br>SC <b>165.1.3.1</b><br>ski, Natalie  | Response Status 0<br>P38                                      |                     | # <mark>I-146</mark> |
| OAM for 2:<br>by interlea<br>Alternative<br>Proposed Res<br>7 165 S<br>immerman, G  | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC 165.1.3<br>George   | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>e sentence to avoid the "band<br>Response Status <b>O</b><br>P38   | ween two 25GB<br>am".<br>" terms.<br><i>L</i> 19   | BASE-T1 PHYs in-band,  | change<br>Proposed I<br>Cl 165<br>Wienckows   | e "a 8460-bit blo<br><i>Response</i><br>SC <b>165.1.3.1</b><br>ski, Natalie<br><i>Type</i> <b>E</b>                       | Response Status O<br>P38<br>General Mot                       |                     | # [ <u>-146</u>      |
| OAM for 2:<br>by interlea<br>Alternative<br>Proposed Resp<br>Cl <b>165</b> S<br>Cimmerman, G<br>Comment Type  | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC 165.1.3<br>George<br>De TR  | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>the sentence to avoid the "band<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>38</b><br>Cisco System:  | ween two 25GB<br>am".<br>" terms.<br><i>L</i> 19<br>s, Inc.,CME Cor  | BASE-T1 PHYs in-band,<br># [ <u>I-42</u><br>nsulting,CommScope,M   | change<br>Proposed I<br>Cl 165<br>Wienckows<br>Comment  | e "a 8460-bit blo<br>Response<br>SC <b>165.1.3.1</b><br>ski, Natalie<br>Type E<br>nar                                     | Response Status O<br>P38<br>General Mot                       |                     | # <u>I-146</u>       |
| OAM for 2:<br>by interlea<br>Alternative<br>Proposed Res<br>(165 S<br>Commerman, G<br>Comment Type<br>"over the s<br>have left o<br>the only th   | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC 165.1.3<br>George<br>be TR<br>single balance<br>but of the over<br>ning matters to                          | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>e sentence to avoid the "band<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>38</b><br>Cisco System:<br><i>Comment Status</i> <b>X</b><br>ed pair of conductors." in our<br>rview any reference to the linit<br>o the PMA is the link segment   | ween two 25GB<br>am".<br>" terms.<br><i>L</i> <b>19</b><br>s, Inc.,CME Cor<br>zeal to referenc<br>segment speci<br>t. If someone c               | # I-42<br>msulting,CommScope,M<br>te the conductors, we<br>ified in 165.7. Besides,<br>could do this on              | change<br>Proposed I<br>Cl 165<br>Wienckows<br>Comment<br>gramm<br>Suggested<br>Chang           | e "a 8460-bit blo<br>Response<br>SC <b>165.1.3.1</b><br>ski, Natalie<br>Type E<br>nar                                     | Response Status O<br>P38<br>General Mot                       |                     | # <u>I-146</u>       |
| OAM for 2:<br>by interlea<br>Alternative<br>Proposed Res<br>(165 S<br>Commerman, G<br>Comment Type<br>"over the s<br>have left o<br>the only th   | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC 165.1.3<br>George<br>be TR<br>single balance<br>but of the over<br>ning matters to                          | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>the sentence to avoid the "band<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>38</b><br>Cisco System:<br><i>Comment Status</i> <b>X</b><br>ed pair of conductors." in our<br>rview any reference to the lini   | ween two 25GB<br>am".<br>" terms.<br><i>L</i> <b>19</b><br>s, Inc.,CME Cor<br>zeal to referenc<br>segment speci<br>t. If someone c               | # I-42<br>msulting,CommScope,M<br>te the conductors, we<br>ified in 165.7. Besides,<br>could do this on              | change<br>Proposed I<br>Cl 165<br>Wienckows<br>Comment<br>gramm<br>Suggested<br>Chang<br>To: ar | e "a 8460-bit blo<br>Response<br>SC 165.1.3.1<br>ski, Natalie<br>Type E<br>nar<br>IRemedy<br>ge: a 8460-bit<br>n 8460-bit | Response Status O<br>P38<br>General Mot<br>Comment Status X   |                     | # <u>I-146</u>       |
| OAM for 2:<br>by interlea<br>Alternative<br>Proposed Resp<br>Cl 165 S<br>Zimmerman, G<br>Comment Type<br>"over the s<br>have left o<br>the only th<br>unbalance                               | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC 165.1.3<br>George<br>be TR<br>single balance<br>but of the over<br>ning matters to<br>ed conductors         | information is exchanged bet<br>the 25 GB/s Ethernet data stre<br>e sentence to avoid the "band<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>38</b><br>Cisco System:<br><i>Comment Status</i> <b>X</b><br>ed pair of conductors." in our<br>rview any reference to the linit<br>o the PMA is the link segment   | ween two 25GB<br>am".<br>" terms.<br><i>L</i> <b>19</b><br>s, Inc.,CME Cor<br>zeal to referenc<br>segment speci<br>t. If someone c               | # I-42<br>msulting,CommScope,M<br>te the conductors, we<br>ified in 165.7. Besides,<br>could do this on              | change<br>Proposed I<br>Cl 165<br>Wienckows<br>Comment<br>gramm<br>Suggested<br>Chang           | e "a 8460-bit blo<br>Response<br>SC 165.1.3.1<br>ski, Natalie<br>Type E<br>nar<br>IRemedy<br>ge: a 8460-bit<br>n 8460-bit | Response Status O<br>P38<br>General Mot                       |                     | # <u> -146</u>       |
| OAM for 2:<br>by interlea<br>Alternative<br>Proposed Resp<br>Cl 165 S<br>Zimmerman, G<br>Comment Type<br>"over the s<br>have left o<br>the only th<br>unbalance<br>SuggestedRem<br>change "ov | 25GBASE-T1<br>aving it with th<br>ely, delete the<br>sponse<br>SC 165.1.3<br>George<br>be TR<br>single balance<br>but of the over<br>ning matters to<br>ed conductors<br>medy | information is exchanged bet<br>the 25 GB/s Ethernet data stree<br>the sentence to avoid the "band<br><i>Response Status</i> <b>O</b><br><i>P</i> <b>38</b><br><i>Cisco System:</i><br><i>Comment Status</i> <b>X</b><br>ed pair of conductors." in our<br>rview any reference to the linit<br>o the PMA is the link segment<br>and meet the specs, the PM | ween two 25GB<br>am".<br>" terms.<br><i>L</i> 19<br>s, Inc.,CME Cor<br>zeal to referenc<br>segment speci<br>t. If someone c<br>A would still sup | # 1-42<br>msulting,CommScope,M<br>ee the conductors, we<br>ified in 165.7. Besides,<br>would do this on<br>oport it. | change<br>Proposed I<br>Cl 165<br>Wienckows<br>Comment<br>gramm<br>Suggested<br>Chang<br>To: ar | e "a 8460-bit blo<br>Response<br>SC 165.1.3.1<br>ski, Natalie<br>Type E<br>nar<br>IRemedy<br>ge: a 8460-bit<br>n 8460-bit | Response Status O<br>P38<br>General Mot<br>Comment Status X   |                     | # <u> -146</u>       |

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|   | .3.1 P38   | L 35                     | # I-59              | C/ 165                      | SC        | 165.1.3                  | P 39  |              | L <b>32</b> | # 1-9             |
|---|--|--------------------------|---------------------|-----------------------------|-----------|--------------------------|---|--------------|-------------|-------------------|
| lonsson, Ragnar                             | Marvell Se   | emiconductor, Inc.       |                     | Grow, Rob                   | ert       |                          | RMG C   | onsulting    |             |                   |
| Comment Type E                              | Comment Status X   |                          |                     | Comment                     | Туре      | TR                       | Comment Status  | (            |             |                   |
| "RS-FEC input sup                           | o introduce the term of "RS-F<br>erframe".   | EC input frame" here     | before introducing  | arrow                       | at line 4 | 46, but als              | s the optional AN subla<br>so with MDI+ and MDI-<br>DTE and footnote in the | at line 32.) | This could  | be handled with a |
| SuggestedRemedy                             | 0-bit OAM field is appended  | to form on 8460 bit F    | SEC input from "    |                             |           |                          | e to indicate the opption   |              |             |                   |
|   |  |                          | S-FEC input name.   | Suggested                   | Remed     | ły                       |   |              |             |                   |
| Proposed Response                           | Response Status <b>O</b>   |                          |                     | the ME                      | DI." Ma   | ke consis                | optional AN sublayer is<br>itent changes to Figure<br>a NOTE 1 and NOTE 2   | 165-3 (if ac |             |                   |
| C/ 165 SC 165.1                             | .3.1 <i>P</i> 38   | L 35                     | # I-117             | Proposed                    |           |                          | Response Status   |              |             |                   |
| Ran, Adee                                   | Cisco Sys  | stems, Inc.              |                     |                             |           |                          |   |              |             |                   |
| Comment Type E                              | Comment Status X   |                          |                     |                             |           |                          |   |              |             |                   |
|   | C frame", "superframe", "train   |                          |                     | C/ 165                      | SC        | 165.1.3                  | P 39  |              | L <b>39</b> | # I-10            |
|   | al meaning of "frame" as a M.<br>ier, leaving it to the reader to                          |                          |                     | Grow, Rob                   |           |                          |   | onsulting    |             |                   |
| ·   |  |                          |                     | Comment                     | •••       | E                        | Comment Status  |              |             |                   |
| efforts to use the te unambiguous), and     | ogy is unfortunate. Although<br>rm "codeword" for RS-FEC t<br>l it may come up in maintena | blocks (which is quite   | established and     | arrow                       | on the l  |                          | nes are not consistent.<br>s 30 through 35, but or<br>N+/MDI                |              |             |                   |
| new project                                 |  |                          |                     | Suggested                   | Remed     | ły                       |   |              |             |                   |
|   | consider the following termine RS-FEC) -> codeword   | ology replacements:      |                     |                             |           |                          | signal lines and placem sect the signal lines.                              | ent of the v | ertical MDI | line so that if   |
| "Superframe" -> co<br>"Training frame" - ro |  |                          |                     | Proposed                    | Respor    | ise                      | Response Status (   | )            |             |                   |
| SuggestedRemedy                             |  |                          |                     | C/ 165                      | SC        | 165.1.3                  | P 39  |              | L <b>46</b> | # I-11            |
| Change to the term                          | inology described in the com   | ment, with editorial lig | cense.              | Grow, Rob                   | oert      |                          | RMG C   | onsulting    |             |                   |
| If this is not done, e<br>fully qualified.  | ensure that all instances of "f  | rame" that do not refe   | r to MAC frames are | Comment<br>Putting          |           | E<br>and the pa          | Comment Status )<br>arenthetical text on diffe                              | -            | nakes read  | ability worse.    |
|   | Response Status <b>O</b>   |                          |                     | <i>Suggested</i><br>Put all |           | <i>ly</i><br>tt on one l | ine.  |              |             |                   |
| Proposed Response                           |  |                          |                     | - ·                         | Deener    | 200                      | Deemanaa Status   |              |             |                   |
| Proposed Response                           |  |                          |                     | Proposed                    | Respor    | 130                      | Response Status   | )            |             |                   |
| Proposed Response                           |  |                          |                     | Proposed                    | Respor    | 130                      | Response Status   | )            |             |                   |
| Proposed Response                           |  |                          |                     | Proposed                    | Respor    | 130                      | Response Status   | )            |             |                   |
| Proposed Response                           |  |                          |                     | Proposed                    | Respor    | 136                      | Response Status   | )            |             |                   |
| Proposed Response                           |  |                          |                     | Proposed i                  | Respor    | 136                      | Response Status   | )            |             |                   |

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|   | P 40   | L17               | # I-2                    | C/ 165           | SC 165.2.2.9                      | 0.1 P48  | L <b>41</b>        | # <mark>I-148</mark>   |
|---|--|-------------------|--------------------------|------------------|-----------------------------------|--|--------------------|------------------------|
| Maguire, Valerie  | Copperopolis   |                   |                          | Wienckow         | ski, Natalie                      | General Mot  | ors Company        |                        |
| Comment Type E  | Comment Status X   |                   |                          | Comment          | Type E                            | Comment Status X   |                    |                        |
| Enclose the id est exar   | nples in parenthesis to be con   | nsistent with the | e parent document.       | incorre          | ect format                        |  |                    |                        |
| SuggestedRemedy   |  |                   |                          | Suggested        | dRemedy                           |  |                    |                        |
| for the transmitter and   | ameters of the PMA, i.e., test<br>receiver, are specified" with, "<br>al specifications for the transr | electrical parar  | neters of the PMA (i.e., | doucu            | iment, e.g. remov                 | the TRUE and FALSE stater<br>ve the "" and add a tab betw        |                    |                        |
| Proposed Response   | Response Status <b>O</b>   |                   | , ,                      | Proposed         | Response                          | Response Status O  |                    |                        |
|   |  | 1 54              | # [1440                  | C/ 165           | SC 165.3.2.2                      | 2 P 52   | L 37               | # I-119                |
| C/ 165 SC 165.1.4   | P <b>40</b>  | L 51              | # I-118                  | Ran, Adee        | 9                                 | Cisco Syster   | ns, Inc.           |                        |
| Ran, Adee   | Cisco Systems  | s, Inc.           |                          | Comment          | Type TR                           | Comment Status X   |                    |                        |
| Comment Type TR<br>"25GBASE-T1 signaling<br>sequences"                                  | Comment Status X<br>g is performed by the PCS ge   | enerating contin  | uous code-group          |                  | PCS Transmit fue present data or  | unction shall use a 65B codir<br>control"                        | ng technique to ge | nerate code-groups     |
|   | group sequences" seem to co  |                   |                          | 65B b            | locks represent of                | quate here; it seems to origin<br>data and control characters, I | but there are addi | tional processing step |
| has a single pair, and u paragraph).  | ses a sequence of PAM4 syn   | nbols (item b in  | the list following this  | · · ·            | OAM) before the<br>er BASE-T PHYs | e data is converted to PAM4<br>s).                               | symbols (corresp   | onding to code-groups  |
| Also, in 165.3.2.2, P52<br>SuggestedRemedy  | L29, and 165.3.2.3, P61 L50.   |                   |                          |                  |                                   | / is a possible replacement to should not be used.               | ext; other change  | s may be possible, but |
|   | de-group sequences" to "a se   | auence of PAN     | 14 symbols"              | Suggested        | dRemedy                           |  |                    |                        |
| Change continuous co  | de-group sequences to a se   | equence of PAN    | 14 Symbols .             |                  | ge the quoted se                  | ntence to  |                    |                        |
| Change "code-groups"<br>Proposed Response   | to "symbols" in the other two<br>Response Status <b>O</b>  | locations provid  | ded in the comment.      | "the P<br>throug | CS Transmit fun                   | ction shall use the transmit p<br>o generate the data stream a   |                    |                        |
|   |  |                   |                          | Chang            | ge the PICS item                  | accordingly.   |                    |                        |
| C/ 165 SC 165.2.2.1   | .1 P43   | L <b>29</b>       | # I-147                  | Proposed         | Response                          | Response Status <b>O</b>   |                    |                        |
| Wienckowski, Natalie  | General Motors   | s Company         |                          |                  |                                   | ,  |                    |                        |
| Comment Type E  | Comment Status X   |                   |                          |                  |                                   |  |                    |                        |
| arammar   |  |                   |                          |                  |                                   |  |                    |                        |
| grammar   |  |                   |                          |                  |                                   |  |                    |                        |
| 0   |  |                   |                          |                  |                                   |  |                    |                        |
| Grammar<br>SuggestedRemedy<br>Change: an 25GMII<br>To: a 25GMII<br>Also, P43L42, P56L45 |  |                   |                          |                  |                                   |  |                    |                        |

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: Page, Line

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| / 165         SC 165.3.2.         P 52         L 54         #         I-88           onsson, Ragnar         Marvell Semiconductor, Inc.         Marvell Semiconductor, Inc. | C/ 165 SC 165.3.2.2 P53 L11 # 1-120  |
|---|--|
|   | Ran, Adee Cisco Systems, Inc.  |
| omment Type E Comment Status X  | Comment Type TR Comment Status X   |
| The relative relationship between various frame alignments can be confusing and it would be beneficial to add an informative text to better explain this relationship.  | In Figure 165-5, the "circled large plus sign" seems to denote a bitwise XOR operation (or modulo 2 addition), but it is not stated explicitly. Compare to Figure 165-9 which has a                |
| uggestedRemedy  | legend for its operations.   |
| Add table on slide 4 of jonsson_tu_zimmerman_3cy_01_08_22_22, with the following text:<br>"The information in Table 165-XX shows the period and relative offset of the start of various<br>frames. The values are given in terms of PFC24, which are synchronized between master  | Figure 165-6 and Figure 165-7 also use similar, but different, "plus sign in a circle".<br>The same symbol is also used in Equation 165-4 without explicit definition.                             |
| and slave." roposed Response Response Status <b>O</b>   | Note that the established convention for XOR is a gate symbol, and in text the caret character (^, see Table 21-1).  |
|   | SuggestedRemedy  |
| / 165 SC 165.3.2.2.2 P53 L # I-121  | Add a legend explaining the "circled plus sign" in the figures.  |
| an, Adee Cisco Systems, Inc.  | Change to the "^" symbol in Equation 165-4 and add "where ^ denotes the XOR operation".  |
| omment Type E Comment Status X  | Proposed Response Response Status <b>O</b>   |
| Incorrect hierarchy; the subclause heading "65B RS-FEC transmission code" addresses all the content in the subsequent subclauses, 165.3.2.2.3 through 165.3.2.2.17, most of which   | r roposed Response - Response Status O   |
| are details of "Use of blocks".   | C/ 165 SC 165.3.2.2.2 P54 L17 # 1-60   |
| The hierarchy is unnecessarily deep, and can be flattened; 165.3 and 165.3.2 have   | Jonsson, Ragnar Marvell Semiconductor, Inc.  |
| practically the same title.   | Comment Type E Comment Status X  |
| uggestedRemedy<br>Move 163.3.2.2.3 through 163.3.2.2.17 to be below the current 163.3.2.2.2.  | since the RS-FEC encoder/decoder and interleaver/deinterleaver are specified in different<br>sections, it would be better to have separate function blocks in Figure 165-6 PCS TX bit<br>ordering. |
| Flatten the hierarchy by removing the subclause 165.3.2 ("PCS functions") and promoting   | SuggestedRemedy  |
| its three subclauses upwards to the parent subclause 165.3 ("Physical Coding Sublayer (PCS) functions")   | have separate RS-FEC Encoder and interleaver blocks in Figure 165-6 PCS TX bit ordering.   |
| roposed Response Response Status O  | Proposed Response Response Status O  |
|   | C/ 165 SC 165.3.2.2.3 P55 L 20 # 1-63  |
|   | Jonsson, Ragnar Marvell Semiconductor, Inc.  |
|   | Comment Type E Comment Status X  |
|   | Figure 165-7 PCS RX bit ordering should be placed in PCS Receive function section  |
|   | SuggestedRemedy  |
|   | place somewhere in sections 165.3.2.3 PCS Receive function   |
|   | Proposed Response Response Status O  |
|   |  |
| YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial  | G/general Pa 55 Page 11 of 29  |

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 55
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
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| Received C | comments |
|------------|----------|
|------------|----------|

| C/ 165 SC 165.3.  | .2.2.3                                | P 55              | L <b>20</b>        | # 1-62   | C/ 165           | SC 165.3.2.                             | 2.7              | P <b>56</b>                       | L18               | # I-123   |
|---|---------------------------------------|-------------------|--------------------|--|------------------|---|------------------|-----------------------------------|-------------------|---|
| Jonsson, Ragnar   |                                       | Marvell Semio     | conductor, Inc.    |  | Ran, Adee        | •                                       |                  | Cisco System                      | ns, Inc.          |   |
| Comment Type E  | Comment                               | Status X          |                    |  | Comment          | Туре <b>т</b>                           | Comment S        | Status X                          |                   |   |
| since the RS-FEC e<br>sections, it would be<br>ordering.            |                                       |                   |                    | e specified in different<br>e 165-7 PCS RX bit | specifi          |   |                  |                                   |                   | ) with "shall be as<br>d"; but in all others      |
| SuggestedRemedy<br>have separate RS-F<br>ordering.                  | EC decoder and                        | l deinterleaver b | blocks in Figure 1 | 65-7 PCS RX bit                                |                  | inconsistent, a                         |                  | 0 ,                               |                   |   |
| Proposed Response   | Response                              | Status <b>O</b>   |                    |  |                  | ns that "shall" is<br>(if there are any |                  | ere and create                    | es a burden for p | eople who read the                                |
|   |                                       |                   |                    |  | Suggested        | Remedy                                  |                  |                                   |                   |   |
| C/ 165 SC 165.3.  | 2.2.3                                 | P 55              | L 47               | # I-122  |                  | je all instances<br>ence>".             | of references to | 149.3.2.2.x to                    | be consistent: "  | is/are as specified in                            |
| Ran, Adee   |                                       | Cisco System      | ns, Inc.           |  | Delete           | PICS that beco                          |                  | rv as a result o                  | of this change    |   |
| Comment Type T  | Comment                               | Status X          |                    |  |                  |   |                  |                                   | or this change.   |   |
| "The value of the date the first transmitted                        |                                       |                   | ary value. Binary  | values are shown with                          | Proposed         | Response                                | Response S       | status <b>O</b>                   |                   |   |
| data/ctrl header is a   | a single bit - there                  | e is no LSB and   | no "first" transmi | tted bit. So this                              | C/ 165           | SC 165.3.2.                             | 2.11             | P 56                              | L 34              | # <u>I-102</u>                                    |
| sentence is meanin  | gless and quite of                    | confusing.        |                    |  | Rolfe, Ben       | jamin                                   |                  | Blind Creek A                     | ssociates         |   |
| Note that the value   | of the data/ctrl h                    | eader bit is not  | shown in any figu  | ure in this clause: it                         | Comment          | Туре <b>т</b>                           | Comment S        | Status X                          |                   |   |
| only appears in Figure Also the "notation c<br>repeat the same info | ure 149–8, which<br>onventions" in 16 | is referenced a   | along with 149.3.2 | 2.2.4 in 165.3.2.2.4.                          | 149.3.<br>standa | 2.2.11" is incorr<br>ard not the imple  | ect use of "shal | I". Ás written i<br>e standard. T | he control charad | equirement of the<br>cters "are as" specified     |
| SuggestedRemedy   |                                       |                   |                    |  |                  |   |                  |                                   |                   | ed in 149.3.2.2.11? Are<br>simply saying it's the |
| Delete the quoted te  | ext.                                  |                   |                    |  |                  |   |                  |                                   | essing from the p |   |
| Proposed Response   | Response                              | Status O          |                    |  |                  | but am probably                         |                  |                                   | - '               |   |
|   |                                       |                   |                    |  | Suggested        | Remedy                                  |                  |                                   |                   |   |
|   |                                       |                   |                    |  | Ordere           | ed set control ch                       | naracters are as | specified for I                   | MultiGBASE-T1 I   | PHYs in 149.3.2.2.11                              |
|   |                                       |                   |                    |  | Proposed         | Response                                | Response S       | Status O                          |                   |   |
|   |                                       |                   |                    |  |                  |   |                  |                                   |                   |   |

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|                | 5 SC 165.3.2.2.15 P57 L24 # 1-124    |                                  |                                     |   |  |           |                                   |               |                    |                    |                        |
|----------------|--------------------------------------|----------------------------------|-------------------------------------|---|--|-----------|-----------------------------------|---------------|--------------------|--------------------|------------------------|
| C/ 165         | SC 165.3.2.2                         | .15                              | P <b>57</b>                         | L <b>24</b>                                 | # I-124  | C/ 165    | SC 165.3                          | 2.2.17        | P 58               | L 41               | # I-126                |
| Ran, Adee      | e                                    |                                  | Cisco System                        | ns, Inc.                                    |  | Ran, Adee | •                                 |               | Cisco Syste        | ms, Inc.           |                        |
| comment        | Type ER                              | Comment                          | Status X                            |   |  | Comment   | Type TR                           | Comme         | ent Status X       |                    |                        |
| In the and su  | expression "m_{<br>uggests that "L-1 | 846 × L-1}" ar<br>" is evaluated | nd similar ones<br>first (despite h | , the spacing in the<br>aving no parenthe   | e subscript is unusual,<br>ses).                   |           | imitive polyno<br>use of notation |               | x^3+1; equating i  | t to 0x409 is conf | using, and is arguably |
| Also, a        | a dash is used in                    | stead of a mi                    | nus sign.                           |   |  | Note t    | hat 802.3cz u                     | ses simply x^ | 10+x^3+1 (see 16   | 6.2.2.4)           |                        |
| Suggested      | dRemedy                              |                                  |                                     |   |  | Suggested | Remedy                            |               |                    |                    |                        |
|                |                                      |                                  |                                     | 165.3.2.2.16, and                           | Figure 165–8),                                     | Delete    | e "0x409=".                       |               |                    |                    |                        |
| chang          | ge the dash to a r                   | ninus sign (or                   | en dash).                           |   |  | Proposed  | Response                          | Respon        | se Status <b>O</b> |                    |                        |
|                | rably, remove the<br>s sign instead. | spaces arou                      | nd the multiplic                    | ation sign and add                          | spaces around the                                  | ,         |                                   |               |                    |                    |                        |
| roposed        | Response                             | Response                         | Status O                            |   |  |           |                                   |               |                    |                    |                        |
| C/ 165         | SC 165.3.2.2                         | .16                              | P <b>57</b>                         | L 34  | # 1-61   |           |                                   |               |                    |                    |                        |
| onsson, F      | Ragnar                               |                                  | Marvell Semi                        | conductor, Inc.                             |  |           |                                   |               |                    |                    |                        |
| comment        | •                                    | Comment                          | Status X                            |   |  |           |                                   |               |                    |                    |                        |
|                | are 90 parity syr                    |                                  |                                     | 39 not 33                                   |  |           |                                   |               |                    |                    |                        |
|                | dRemedy                              |                                  | gp                                  |   |  |           |                                   |               |                    |                    |                        |
| chang<br>needs | e from p1,33 to p                    |                                  |                                     |   | , PL,89,, p1,0,                                    |           |                                   |               |                    |                    |                        |
| roposed        | Response                             | Response                         | Status O                            |   |  |           |                                   |               |                    |                    |                        |
| C/ 165         | SC 165.3.2.2                         | .17                              | P 58                                | L <b>29</b>                                 | # I-125  |           |                                   |               |                    |                    |                        |
| Ran, Adee      | 9                                    |                                  | Cisco System                        | ns. Inc.                                    |  |           |                                   |               |                    |                    |                        |
| comment        |                                      | Comment                          | Status X                            | -, -  |  |           |                                   |               |                    |                    |                        |
| The ne         |                                      | ve three insta                   |                                     | e symbol size is 10<br>t" as an adjective o | bits".<br>of the symbol, after                     |           |                                   |               |                    |                    |                        |
|                |                                      |                                  |                                     |   | " every time a symbol<br>ontribute to readability. |           |                                   |               |                    |                    |                        |
| Suggested      | dRemedy                              |                                  |                                     |   |  |           |                                   |               |                    |                    |                        |
|                | e "ten-bit" before                   | "RS-FEC" thr                     | ee times in this                    | paragraph.                                  |  |           |                                   |               |                    |                    |                        |
|                | Response                             | Response                         |                                     |   |  |           |                                   |               |                    |                    |                        |
|                |                                      | 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: Page, Line

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| C/ 165 SC 165.3.2.2.17 P58 L43 # 1-127   | C/ 165 SC 165.3.2.2.17 P59 L46 # I-71   |
|--|---|
| tan, Adee Cisco Systems, Inc.  | Jonsson, Ragnar Marvell Semiconductor, Inc.   |
| omment Type TR Comment Status X  | Comment Type E Comment Status X   |
| "Equation (165–2) defines the message polynomial m(x)"   | There are two tables marked Table 165-1, one on page 59 and one on page 60.   |
| m(x) is not one specific polynomial, and it cannot be defined as such. It is a representation of the data.   | n SuggestedRemedy   |
| or the data.   | Update table numbers to avoid duplicate numbering.  |
| "Equation (165–3) defines the parity polynomial $p(x)$ whose coefficients are the parity   | Proposed Response Response Status <b>O</b>  |
| symbols p21 to p0"<br>Similarly, the parity polynomial is not defined by this equation, but by the calculation of the  |   |
| remainder of division of $m(x)$ by $g(x)$ , as indicated in the subsequent text.   |   |
| Alex, the encoder illustrated in Figure 405.0 is not just a chift encider.   | Cl 165 SC 165.3.2.2.17 P 59 L 50 # 1-129  |
| Also, the encoder illustrated in Figure 165-9 is not just a shift register.  | Ran, Adee Cisco Systems, Inc.   |
| (See comment R1-22 against P802.3cz D3.1)  | Comment Type E Comment Status X   |
| lggestedRemedy   | In Table 165-1, the ruling suggests that the first two columns are separate from others.  |
| Change the quoted sentences to, respectively,  | This should be fixed.   |
| "The contents of the RS-FEC message are represented by a polynomial m(x) whose   | The table could be improved by adding a leftmost column with heading "I" and values from  |
| coefficients are the message symbols m521 to m0 as shown in Equation (165–2)"  | 0 to 12; and change column labels to $[g_{i}], [g_{13+i}], [g_{26+i}], etc., such that the content of each cell is clearly described by its row and column headings.$   |
|  | content of ouch control of a control by the form and continent for allinge.   |
|  | Suggested Remedy  |
| and  | SuggestedRemedy   |
| "The parity polynomial $p(x)$ is calculated as the remainder of polynomial division of $m(x)$ by   | Change the column ruling to have regular line width between columns 2 and 3.  |
|  | Change the column ruling to have regular line width between columns 2 and 3.  |
| "The parity polynomial $p(x)$ is calculated as the remainder of polynomial division of $m(x)$ by $g(x)$ . Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".   | Change the column ruling to have regular line width between columns 2 and 3.  |
| "The parity polynomial $p(x)$ is calculated as the remainder of polynomial division of $m(x)$ by $g(x)$ . Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of $m(x)$ by $g(x)$ . This can be   | Change the column ruling to have regular line width between columns 2 and 3.<br>Y<br>Consider improving the table as suggested in the comment.  |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of m(x) by g(x). This can be<br>computed using the shift register implementation illustrated in Figure 165–9"  | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status <b>O</b>   |
| "The parity polynomial $p(x)$ is calculated as the remainder of polynomial division of $m(x)$ by $g(x)$ . Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of $m(x)$ by $g(x)$ . This can be   | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>Cl 165 SC 165.3.2.2.18 P60 L27 # [-130  |
| "The parity polynomial $p(x)$ is calculated as the remainder of polynomial division of $m(x)$ by $g(x)$ . Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of $m(x)$ by $g(x)$ . This can be<br>computed using the shift register implementation illustrated in Figure 165–9"<br>to<br>The calculation of the coefficients of $p(x)$ is illustrated in Figure 165–9".  | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>Cl 165 SC 165.3.2.2.18 P60 L 27 # [-130<br>Ran, Adee Cisco Systems, Inc.  |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of m(x) by g(x). This can be<br>computed using the shift register implementation illustrated in Figure 165–9"<br>to<br>The calculation of the coefficients of p(x) is illustrated in Figure 165–9".  | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>CI 165 SC 165.3.2.2.18 P 60 L 27 # [-130<br>Ran, Adee Cisco Systems, Inc.<br>Comment Type T Comment Status X  |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of m(x) by g(x). This can be computed using the shift register implementation illustrated in Figure 165–9" to<br>The calculation of the coefficients of p(x) is illustrated in Figure 165–9".<br><i>oposed Response</i> Response Status <b>O</b>   | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status <b>O</b><br>Cl 165 SC 165.3.2.2.18 P 60 L 27 # [-130<br>Ran, Adee Cisco Systems, Inc.<br>Comment Type <b>T</b> Comment Status <b>X</b><br>In this subclause there is no "shall" for the reference to the corresponding clause 149  |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of m(x) by g(x). This can be computed using the shift register implementation illustrated in Figure 165–9" to<br>The calculation of the coefficients of p(x) is illustrated in Figure 165–9".<br><i>oposed Response</i> Response Status <b>O</b>   | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>Cl 165 SC 165.3.2.2.18 P60 L27 # [-130<br>Ran, Adee Cisco Systems, Inc.<br>Comment Type T Comment Status X<br>In this subclause there is no "shall" for the reference to the corresponding clause 149<br>subclause, unlike the subsequent ones.   |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".         Change from         "The parity polynomial is the remainder from the division of m(x) by g(x). This can be computed using the shift register implementation illustrated in Figure 165–9" to The calculation of the coefficients of p(x) is illustrated in Figure 165–9".         oposed Response       Response Status       0         165       SC 165.3.2.2.17       P 59       L 19       # 1-128   | Change the column ruling to have regular line width between columns 2 and 3.         Consider improving the table as suggested in the comment.         Proposed Response       Response Status         C/       165       SC 165.3.2.2.18       P 60       L 27       # [-130]         Ran, Adee       Cisco Systems, Inc.         Comment Type       T       Comment Status       X         In this subclause there is no "shall" for the reference to the corresponding clause 149 subclause, unlike the subsequent ones.       Consistency         |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".         Change from         "The parity polynomial is the remainder from the division of m(x) by g(x). This can be computed using the shift register implementation illustrated in Figure 165–9" to         The calculation of the coefficients of p(x) is illustrated in Figure 165–9".         oposed Response       Response Status       0         165       SC 165.3.2.2.17       P 59       L 19       #         I-128         an, Adee       Cisco Systems, Inc.  | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>Cl 165 SC 165.3.2.2.18 P60 L 27 # [-130<br>Ran, Adee Cisco Systems, Inc.<br>Comment Type T Comment Status X<br>In this subclause there is no "shall" for the reference to the corresponding clause 149<br>subclause, unlike the subsequent ones.<br>Consistency<br>SuggestedRemedy  |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".         Change from         "The parity polynomial is the remainder from the division of m(x) by g(x). This can be computed using the shift register implementation illustrated in Figure 165–9" to         The calculation of the coefficients of p(x) is illustrated in Figure 165–9".         oposed Response       Response Status       0         165       SC 165.3.2.2.17       P 59       L 19       #         I-128         an, Adee       Cisco Systems, Inc.  | Change the column ruling to have regular line width between columns 2 and 3.         Consider improving the table as suggested in the comment.         Proposed Response       Response Status         C/       165       SC 165.3.2.2.18       P 60       L 27       # [-130]         Ran, Adee       Cisco Systems, Inc.         Comment Type       T       Comment Status       X         In this subclause there is no "shall" for the reference to the corresponding clause 149 subclause, unlike the subsequent ones.       Consistency         |
| "The parity polynomial $p(x)$ is calculated as the remainder of polynomial division of $m(x)$ by $g(x)$ . Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of $m(x)$ by $g(x)$ . This can be<br>computed using the shift register implementation illustrated in Figure 165–9"<br>to<br>The calculation of the coefficients of $p(x)$ is illustrated in Figure 165–9".<br><i>Poposed Response</i> Response Status <b>O</b><br><b>165</b> SC <b>165.3.2.2.17</b> P <b>59</b> L <b>19</b> # <u>I-128</u><br>an, Adee Cisco Systems, Inc.<br><i>priment Type</i> <b>E</b> Comment Status <b>X</b><br>Commas should be placed before and after parentheticals.  | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>Cl 165 SC 165.3.2.2.18 P60 L 27 # [-130<br>Ran, Adee Cisco Systems, Inc.<br>Comment Type T Comment Status X<br>In this subclause there is no "shall" for the reference to the corresponding clause 149<br>subclause, unlike the subsequent ones.<br>Consistency<br>SuggestedRemedy  |
| "The parity polynomial p(x) is calculated as the remainder of polynomial division of m(x) by g(x). Its coefficients p89 to p0, as shown in Equation (165–3), are the parity symbols".<br>Change from<br>"The parity polynomial is the remainder from the division of m(x) by g(x). This can be computed using the shift register implementation illustrated in Figure 165–9" to<br>The calculation of the coefficients of p(x) is illustrated in Figure 165–9".<br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i><br><i>to</i> | Change the column ruling to have regular line width between columns 2 and 3.<br>Consider improving the table as suggested in the comment.<br>Proposed Response Response Status O<br>Cl 165 SC 165.3.2.2.18 P60 L27 # [-130<br>Ran, Adee Cisco Systems, Inc.<br>Comment Type T Comment Status X<br>In this subclause there is no "shall" for the reference to the corresponding clause 149<br>subclause, unlike the subsequent ones.<br>Consistency<br>SuggestedRemedy<br>Either add "shall" here or delete it from 165.3.2.2.19 through 165.3.2.2.21. |

| TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general                 | Pa <b>60</b> |
|---|--------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | Li <b>27</b> |
| SORT ORDER: Page, Line  |              |

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#### **Received Comments** IEEE P802.3cy D3.0 10G+ Auto Task Force Initial Sponsor ballot comments C/ 165 SC 165.3.2.2.22 P61 L9 # I-131 C/ 165 SC 165.3.4 P63 L 31 # I-133 Ran. Adee Cisco Systems, Inc. Ran. Adee Cisco Systems, Inc. Comment Type E Comment Status X Comment Type Е Comment Status X The indented text seems to be a list of items, but is not formatted as such. The content of this subclause (Side-stream scrambler polynomials) is not helpful; the PCS scrambler is already addressed in 165.3.2.2.18 (by reference to 149.3.2.2.18, which has There are some other lists in the draft where this should be applied too. the required pointer to 149.3.4). There is no reference to this subclause in this draft. SuggestedRemedv SuagestedRemedv Delete 165.3.4. Change formatting to a dashed list (DL). Apply elsewhere as necessary with editorial license. Proposed Response Response Status **O** Proposed Response Response Status **O** SC 165.3.6 P65 L7 # I-66 C/ 165 SC 165.3.2.2.22 C/ 165 P61 L 41 # 1-82 Marvell Semiconductor, Inc. Jonsson, Ragnar Jonsson, Ragnar Marvell Semiconductor. Inc. Comment Type TR Comment Status X Comment Type TR Comment Status X Figure 165-12 - Incorrect Valid alert start for the Master at 0? Values in Table 165-2 are incorrect. SuggestedRemedy SuggestedRemedy The alert signal for master at location zero should be removed from Figure 165-12 Change the values in Table 165-2 to: 16, 48, 15.9744, 28, and 9.3184 Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 165 SC 165.3.6 P65 L7 # 1-64 C/ 165 SC 165.3.2.3 P61 L 50 # I-132 Jonsson, Ragnar Marvell Semiconductor, Inc. Cisco Systems, Inc. Ran, Adee Comment Type E Comment Status X Comment Type T Comment Status X In Figure 165-11, the master is missing a valid alert starting at 92. "The PCS Receive function accepts received code-groups provided by the PMA Receive SuggestedRemedy function" Add the missing valid alert start at 92 for master SuggestedRemedy Proposed Response Response Status 0 Proposed Response Response Status O

Pa **65** Li **7** 

| C/ 165   | SC 165.3.6   | P <b>65</b>   | L16              | # 1-83                  | C/ 165     | SC 16      | 65.3.6.1  | P 66  | L 18               | # I-134                |
|----------|--|---|------------------|-------------------------|------------|------------|-----------|---|--------------------|------------------------|
| Jonsson, | Ragnar   | Marvell Semice  | onductor, Inc.   |                         | Ran, Adee  |            |           | Cisco System  | ns, Inc.           |                        |
| Comment  | Туре Е   | Comment Status X  |                  |                         | Comment    | ype I      | ER        | Comment Status X  |                    |                        |
| The a    | rrow for lpi_slave   | _offset is not correctly aligned  | in Figure 165-1  | 1.                      |            |            |           | ame long sequence (alert_le                                 |                    |                        |
| Suggeste | dRemedy  |   |                  |                         | beginn     | ng or ang  | iy eighth | RS-FEC frame counting fro                                   | m the start of the | e QR cycle             |
|          | ge the alignment on the second s | of the arrow for lpi_slave_offs<br>ame).  | et in Figure 165 | -11, to end at frame 42 |            |            |           | rased sentence, and the "sl<br>ed alignment of the alert se |                    | equate; this is a      |
| Proposed | Response   | Response Status <b>O</b>  |                  |                         |            |            |           | in this paragraph (only start<br>g to the confusion.        | ing at frame 92)   | contradicts the        |
| C/ 165   | SC 165.3.6   | P 65  | L 34             | # I-84                  |            |            |           |   |                    |                        |
| Jonsson, | Ragnar   | Marvell Semico  | onductor, Inc.   |                         |            |            |           | ed by tables which seem to                                  | say the same th    | ning in a more formal  |
| Comment  | Type E   | Comment Status X  |                  |                         |            | •          |           | gh to point to the tables.                                  |                    |                        |
| The a    | rrow for lpi_slave   | _offset is not correctly aligned  | in Figure 165-1  | 2.                      | Suggested  |            |           |   |                    |                        |
| Suggeste | dRemedy  |   |                  |                         |            |            |           | quence of length alert_lengt<br>beginning of RS-FEC fram    |                    |                        |
|          | ge the alighment of<br>nning of refresh fra  | of the arrow for lpi_slave_offse<br>ame).   | et in Figure 165 | -12, to end at frame 42 | denote     | s the 0-b  | based ind | lex of the RS-FEC frame co                                  | unting from the    | start of the QR cycle) |
| Proposed | Response   | Response Status <b>O</b>  |                  |                         |            |            |           | ne valid locations for Alert an<br>on for Alert is u=92."   | re when u mod 8    | B = 4. When slow wak   |
|          |  |   |                  |                         | Alterna    | tively, de | elete the | text description and use a r                                | eference to table  | es 165-4 and 165-5.    |
| C/ 165   | SC 165.3.6   | P 66  | L <b>9</b>       | # 1-87                  | Proposed I | Response   | е         | Response Status 0   |                    |                        |
| Jonsson, | Ragnar   | Marvell Semice  | onductor, Inc.   |                         |            |            |           |   |                    |                        |
| Comment  | Type E   | Comment Status X  |                  |                         |            |            |           |   |                    |                        |
| simila   | r to "lpi_offset" us   | offset" and "lpi_master_offset<br>sed in clause 149, but have a<br>refresh_start" and "lpi_master | different meanir |                         |            |            |           |   |                    |                        |
| Suggeste | dRemedy  |   |                  |                         |            |            |           |   |                    |                        |
|          |  | s of "lpi_slave_offset" with "lp<br>ster_offset" with "lpi_master_re                              |                  | _start" and replace all |            |            |           |   |                    |                        |

Proposed Response Response Status **0** 

Pa **66** Li **18** 

## IEEE P802.3cy D3.0 10G+ Auto Task Force Initial Sponsor ballot comments

| C/ 165   | SC 165.3.6.1  | P66  | L21   | # I-135   | C/ 165  | SC 165.3.6  | P66   | L 29  | # I-85        |
|--|---|--|---|---|---|---|---|---|---------------|
| Ran, Adee  |   | Cisco System   | ns, Inc.  |   | Jonsson, F  | Ragnar  | Marvell Ser   | niconductor, Inc.   |               |
| Comment Ty   | vpe TR (  | Comment Status X   |   |   | Comment   | Туре Т  | Comment Status X  |   |               |
| "Slow Wa   | ake" is mentioned   | here for the first time, ar  | nd does not seem  | n to be defined   | The tx  | _refresh_active of  | condition is not correct in ta  | ble 165-4.  |               |
| anywhere   | e. It also appears i  | n tables 165-4 and 165-4   | 5.  |   | Suggested   | dRemedy   |   |   |               |
| 165.4.2.4  | 4.5. But there is no<br>keRequest in the F  | an InfoField bit called "S<br>variable called "Slow W<br>PHY capability bits is sen  | ake" and it is not  | t defined that  | mod(u   | ı, lpi_qr_time) < l<br>ı, lpi_qr_time) < l  | e "lpi_slave_offset – lpi_refr<br>pi_slave_offset" to "lpi_slav<br>pi_slave_offset + lpi_refres<br><i>Response Status</i> <b>0</b>                            | re_offset ≤   |               |
|  | keRequest and "sl<br>d to link them.  | ow wake" are not the sar   | me thing, and rea   | aders should not be   |   |   |   |   |               |
| SuggestedRe  | emedv   |  |   |   | C/ 165  | SC 165.3.6.1  | P 66  | L <b>39</b>   | # I-136       |
| At the mi  | ,   | slow wake" to "SlowWak<br>in the text.   | eRequest" and a   | dd "(see 165.4.2.4.5)"  | Ran, Adee<br><i>Comment</i>   |   | Cisco Syste<br>Comment Status X   | ems, Inc.   |               |
| is it tha li   | and ClawWelcePa   | and a set of the set o | noto ono that our   | strolo it?  | Suggested   | dRemedy   |   |   |               |
| Proposed Re  |   | quest rather than the rer  |   |   | 00  | ge "v" to <sup>"</sup> u" in tak<br><i>Response</i>   | ole 165-5.<br>Response Status <b>O</b>  |   |               |
| Proposed Re  |   | •  | L 25  | # [ <u>1-65</u> ]   | Chang<br>Proposed   | Response  | Response Status O   | / 41  | # 196         |
| Proposed Re  | esponse R<br>SC <b>165.3.6.1</b><br>gnar  | Pesponse Status O<br>P66<br>Marvell Semi   |   |   | Chang<br>Proposed<br>Cl 165   | Response<br>SC 165.3.6  | Response Status O   | L 41  | # <u>1-86</u> |
| Proposed Re<br>Cl <b>165</b><br>Ionsson, Rag<br>Comment Tyj  | SC 165.3.6.1<br>gnar<br>pe TR (   | P 66<br>Marvell Semi   | L <b>25</b>   |   | Chang<br>Proposed<br>Cl 165<br>Jonsson, F                                 | Response<br>SC 165.3.6<br>Ragnar  | Response Status O<br>P66<br>Marvell Ser   | L 41<br>niconductor, Inc.   | # <u>1-86</u> |
| Proposed Re<br>Cl <b>165</b><br>Jonsson, Rag<br>Comment Ty<br>Sentence<br>When Sid   | SC 165.3.6.1<br>SC 165.3.6.1<br>gnar<br>pe TR (<br>e above Table 165<br>low Wake is active  | P 66<br>Marvell Semi<br>Comment Status X<br>-4:<br>, alert can be transmitted  | L 25<br>conductor, Inc.   | # [ <mark>I-65</mark>   | Chang<br>Proposed<br>Cl 165<br>Jonsson, F<br>Comment                      | Response<br>SC 165.3.6<br>Ragnar<br>Type <b>T</b>   | Response Status O   | niconductor, Inc.   | # <u>1-86</u> |
| Proposed Re<br>Cl <b>165</b><br>Ionsson, Rag<br>Comment Tyj<br>Sentence<br>When Sid<br>starting a  | SC 165.3.6.1<br>gnar<br>pe TR (<br>e above Table 165<br>low Wake is active<br>at RS-FEC frame S   | P 66<br>P 66<br>Marvell Semi<br>Comment Status X<br>-4:<br>, alert can be transmitted  | L 25<br>conductor, Inc.<br>d in only a single   | # 1-65  | Chang<br>Proposed<br>Cl 165<br>Jonsson, F<br>Comment                      | Response<br>SC 165.3.6<br>Ragnar<br>Type T<br>c_refresh_active o  | Response Status O<br>P 66<br>Marvell Ser<br>Comment Status X  | niconductor, Inc.   | # <u>1-86</u> |
| Proposed Re<br>Cl 165<br>Jonsson, Rag<br>Comment Ty<br>Sentence<br>When Sk<br>starting a<br>This is or<br>Suggested Re<br>Need to a            | SC 165.3.6.1<br>gnar<br>pe TR (<br>e above Table 165<br>low Wake is active<br>at RS-FEC frame S<br>nly true for the ma<br>emedy<br>add starting postio  | P 66<br>P 66<br>Marvell Semi<br>Comment Status X<br>-4:<br>, alert can be transmitted<br>22.<br>ster - the slave can only<br>on for slave in the paragra   | <i>L</i> 25<br>conductor, Inc.<br>d in only a single<br>transmit starting<br>aph above table                        | # 1-65<br>QR cycle location,<br>at RS-FEC frame 44.<br>165-4:                         | Cl 165<br>Jonsson, F<br>Comment<br>The tx<br>Suggested<br>In Tab<br>mod(v | SC 165.3.6<br>SC 165.3.6<br>Ragnar<br>Type T<br>c_refresh_active of<br>dRemedy<br>ble 165-5, change<br>r, lpi_qr_time) < lp                       | Response Status O<br>P 66<br>Marvell Ser<br>Comment Status X  | niconductor, Inc.<br>ble 165-5.<br>fresh_time ≤<br>aster_offset ≤ | # <u>1-86</u> |
| Proposed Re<br>Cl 165<br>Jonsson, Rag<br>Comment Ty<br>Sentence<br>When Sk<br>starting a<br>This is or<br>Suggested Re<br>Need to a<br>"When S | SC 165.3.6.1<br>gnar<br>pe TR (<br>e above Table 165<br>low Wake is active<br>at RS-FEC frame S<br>nly true for the ma<br>emedy<br>add starting postion<br>Slow Wake is active<br>at RS-FEC frame S | P 66<br>P 66<br>Marvell Semi<br>Comment Status X<br>-4:<br>, alert can be transmitted<br>22.<br>ster - the slave can only  | <i>L</i> 25<br>conductor, Inc.<br>d in only a single<br>transmit starting<br>aph above table<br>ed in only a single | # 1-65<br>QR cycle location,<br>at RS-FEC frame 44.<br>165-4:<br>e QR cycle location, | Cl 165<br>Jonsson, F<br>Comment<br>The tx<br>Suggested<br>In Tab<br>mod(v | SC 165.3.6<br>SC 165.3.6<br>Ragnar<br>Type T<br>Crefresh_active of<br>Remedy<br>ble 165-5, change<br>r, lpi_qr_time) < lp<br>r, lpi_qr_time) < lp | Response Status O<br>P66<br>Marvell Ser<br>Comment Status X<br>condition is not correct in ta<br>e "Ipi_master_offset – Ipi_re<br>pi_master_offset" to "Ipi_m | niconductor, Inc.<br>ble 165-5.<br>fresh_time ≤<br>aster_offset ≤ | # <u> -86</u> |

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|   | 2.3 P67  | L 31              | # I-56                 | C/ 165           | SC 165.4.2.                          | 4.5               | P <b>78</b>    | L 39                 | # I-92                  |
|---|--|-------------------|------------------------|------------------|--------------------------------------|-------------------|----------------|----------------------|-------------------------|
| Zimmerman, George   | Cisco System   | ns, Inc.,CME Cor  | nsulting,CommScope,M   | Jonsson, R       | lagnar                               |                   | Marvell Sem    | iconductor, Inc.     |                         |
| Comment Type T  | Comment Status X   |                   |                        | Comment T        | Туре Е                               | Comment S         | tatus X        |                      |                         |
| There is no mention<br>rfer_timer is deleted              | o of XGMII in 149.3.7.2.3 timers.<br>I as well)  | (note that this e | dit accomodates if the | With cl<br>Alert | hange in LPI si                      | gnaling, there is | 1 RS FEC fra   | ame gap between      | end of Refresh and      |
| SuggestedRemedy   |  |                   |                        | Suggested        | Remedy                               |                   |                |                      |                         |
| Replace first senten<br>with the following me             | ice of 165.3.7.2.3 with "The PCS<br>odifications:  | S timers are as c | lefined in 149.3.7.2.3 |                  | e "transmit aler<br>alert time slot" | t only immediate  | ly following a | a refresh" to "trans | smit alert only in slow |
| Proposed Response   | Response Status O  |                   |                        | Proposed I       | Response                             | Response Si       | tatus <b>O</b> |                      |                         |
| C/ 165 SC 165.3.  | 7.3 P70  | L <b>50</b>       | # <u>I-12</u>          | C/ 165           | SC 165.4.2.                          | 4.5               | P <b>78</b>    | L <b>44</b>          | # <u>I-137</u>          |
| Grow, Robert  | RMG Consult  | ing               |                        | Ran, Adee        |                                      |                   | Cisco Syster   | ns, Inc.             |                         |
| Comment Type E  | Comment Status X   |                   |                        | Comment          | Туре <b>т</b>                        | Comment S         | tatus X        |                      |                         |
|   | mandatory, the functionality spe<br>iformative text, I assume the act<br>where in the draft. |                   |                        |                  | emaining bits sl<br>be reserved" is  |                   | and set to 0.' | ' - reserved bits a  | re listed in the table; |
| SuggestedRemedy   |  |                   |                        | Also, re         | eserved should                       | be ignored on re  | eceipt, otherv | vise they can't be   | defined in the future.  |
| NOTE—The function   | nality in this figure is mandatory   | for a PHY with    | the EEE capability.    | Reserv           | ved fields are al                    | lso mentioned in  | 165.4.2.4.7    | with insufficient ex | planation.              |
| Proposed Response   | Response Status 0  |                   |                        | Suggested        | Remedy                               |                   |                |                      |                         |
|   |  |                   |                        |                  | e the quoted se<br>d upon receipt.'  |                   | 2.4.5 to "Res  | served bits shall b  | e transmitted as 0 and  |
| C/ 165 SC 165.4.  |  | L                 | # I-72                 | Chang            | e the last sente                     | ence in 165.4.2.4 | 7 to "All rese | erved fields are tra | ansmitted as 0 and      |
|   |  | conductor, Inc.   |                        |                  | d upon receipt"                      |                   |                |                      |                         |
|   | Comment Status X   | obranization bla  | ock in minning         | Proposed I       | Response                             | Response Si       | tatus <b>O</b> |                      |                         |
| Comment Type E  | A a gigdet output from Link Sur  | ICHI OHIZAUOH DIC | JCK IS MISSING         |                  |                                      |                   |                |                      |                         |
| Comment Type E<br>Figure 165-16 - send                    | d_s_sigdet output from Link Syr  |                   |                        |                  |                                      |                   |                |                      |                         |
| Comment Type E<br>Figure 165-16 - send<br>SuggestedRemedy |  |                   |                        |                  |                                      |                   |                |                      |                         |
| Figure 165-16 - send<br>SuggestedRemedy                   | to Figure 165-16. Figure 149-20  |                   | s reference for how to |                  |                                      |                   |                |                      |                         |

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| C/ 165 SC 165.4.2   | .6 P 81  | L <b>25</b>   | # 1-94  | C/ 165   | SC 165.5.1. <sup>-</sup>  | I P <b>92</b>   | L 18   | # 1-4   |
|---|--|---|---|--|---|---|--|---|
| Rolfe, Benjamin   | Blind Creek A  | Associates  |   | Boyer, Rich  |   | Aptiv - Signa   | l and Power Solu   | utions  |
| Comment Type T  | Comment Status X   |   |   | Comment Typ  | e T   | Comment Status X  |  |   |
| "The receiver may no<br>periods of the SEND_<br>It may or may not not<br>paragraph is an inforr<br>generator, and then ta | ent to "may or may not", I'm not<br>t necessarily receive a continu<br>S signal."<br>necessarily? Figuring it out f<br>native description of a possibl<br>alking about what the receiver<br>an optional behavior, but seer | uous PN sequent<br>from context didn<br>le implementation<br>r may or may not | ce between separate<br>'t work either, as the<br>n of the PN sequence<br>or may not not | measurer<br>the PSD r<br>measurer<br>capturing<br>then Figu<br>PSD mea | nent is not re<br>neasuremen<br>nent can be<br>device) inste<br>re 165-27 ca<br>surement. | 165-27 is not defined. Use o<br>quired. Eliminate the use of<br>t. If the Balun and spectrum<br>made with digital signal analy<br>ead of a BALUN and spectrum<br>n be removed and existing Fi | the BALUN and<br>analyzer is elimi<br>zer (DSA) (a.k.a<br>n analyzer. If thi | spectrum analyzer for<br>nated, then the PSD<br>. Digital Scope or<br>s proposal is accepted, |
| SuggestedRemedy   |  |   |   | SuggestedRe  | •   | 7 d (   |  | 11  |
| Delete the sentence.  |  |   |   | Remove I   | -igure 165-2  | 7 and reference Figure 165-2  | 5 IOT PSD mask   | test.   |
| Proposed Response   | Response Status <b>O</b>   |   |   | "Transmit<br>measurer  | ter test confi  | description from.<br>guration 1 for transmitter droc  | op, transmitter lir  | nearity, and jitter   |
| C/ 165 SC 165.4.4   | .1 P86   | L <b>50</b>   | # I-95  | To,<br>"Transmit   | ter test confi  | guration 1 and 4 for transmitt  | er droop, transm   | itter linearity, jitter and   |
| Rolfe, Benjamin   | Blind Creek A  | Associates  |   |  |   | measurement and transmit  |  |   |
| Comment Type T  | Comment Status X<br>". This should be "can".   |   |   | •Remove<br>•Remove   | wording in liı<br>Figure 165-2  | ncerning Figure 165-27 as fo<br>te 18 page 92 "Figure 165-27<br>7 on page 93.<br>page 95 line 53 to "165-25".   |  |   |
| Change "may" to "car  | 1"   |   |   | Proposed Res   | ponse   | Response Status 0   |  |   |
| Proposed Response   | Response Status 0  |   |   |  |   |   |  |   |
|   |  |   |   | C/ 165   | SC 165.5.1.   | P93   | L11  | # I-5   |
| C/ 165 SC 165.4.5   | P 90   | L <b>51</b>   | # I-18  | Mcclellan, Bre   | tt  | Marvell Semi  | conductor, Inc.  |   |
| Grow, Robert  | RMG Consul   | lting   |   | Comment Typ  |   | Comment Status X  | ···· , ····  |   |
|   | Comment Status X<br>ed with the file image.png atta  |   |   | "Figure 16<br>measurer<br>There are                                    | 65–27—Tran<br>nentand tran<br>only 3 test o   | smitter test configuration 4 fo<br>smit power level measureme<br>configurations defined in this s   | nt"  | -   |
| The state diagram isr   | I't required, the functionality is   | s required.   |   | -  | ion should b  | e '3'.  |  |   |
| The state diagram is  |  |   |   | SuggestedRe  | medy  |   |  |   |
| -   |  |   |   |  |   |   |  |   |
| SuggestedRemedy   | ty of this state diagram is only   | / required when the   | ne PHY supports EEE.  | change 'c  | onfiguration  | 4' to 'configuration 3' and ass   | ociated referenc   | es, ie. page 95 line 52   |

| TYPE: TR/technical required ER/editorial required GR/gener | ral 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: Page, Line                                     |  |

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| C/ 165 SC 165.5.3  | B P93   | L <b>51</b>   | # 1-3   | C/ 165  | SC 165.5.3  | P <b>94</b>  | L <b>22</b>   | # I-97  |
|--|---|---|---|---|---|--|---|---|
| Maguire, Valerie   | Copperopolis  |   |   | Rolfe, Benja  | min   | Blind Creek  | Associates  |   |
| Comment Type E   | Comment Status X  |   |   | Comment Ty  | ире <b>т</b>  | Comment Status X   |   |   |
| SuggestedRemedy<br>Replace, "shall be A  | c-coupled, i.e., it shall present a<br>nall be AC-coupled (i.e., it shall<br>DI).".<br>Response Status <b>O</b>   | a high DC comr  | non-mode impedance  | indicatin<br>Then TP<br>being us<br><i>SuggestedR</i>   | g that the test p<br>20 and TP5 may<br>sed incorrectly.<br><i>emedy</i><br>ne sentence or   | hat may not be testable in a<br>points are optional in a com<br>y be omitted is what is mea<br>rewrite with correct use of<br><i>Response Status</i> <b>O</b>  | forming implemer<br>ant? The "may no  | itation?<br>t" is a clue that "may" is  |
| C/ 165 SC 165.5.3  | 3 P93   | L 53  | # 1-96  |   |   |  |   |   |
| Rolfe, Benjamin  | Blind Creek A   | ssociates   |   | C/ 165  | SC 165.5.3.3  | P <b>94</b>  | L <b>48</b>   | # I-73  |
| Comment Type <b>T</b>  | Comment Status X  | 1330012103  |   | Jonsson, Ra   | gnar  | Marvell Sen  | niconductor, Inc.   |   |
| 51   |   |   |   |   |   |  |   |   |
| "There may be vario  | us methods for AC-coupling in a   | actual implemer   | ntations." is   | Comment Ty  | vpe TR  | Comment Status X   |   |   |
|  | us methods for AC-coupling in a """"""""""""""""""""""""""""""""""  |   |   |   | •   | Comment Status X<br>have become too strict, an   | d do not strike the   | e right balance betweer   |
| inappropriate use of   |   |   |   | The jitte<br>the com  | r requirements  |  |   |   |
| inappropriate use of   | "may". Should be "can" (stating   |   |   | The jitte<br>the com<br>etc.  | r requirements<br>plexity of the P <b>I</b>   | have become too strict, an   |   |   |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca   | "may". Should be "can <sup>'</sup> " (stating   |   |   | The jitte<br>the com<br>etc.<br>SuggestedR  | r requirements<br>plexity of the Pl<br>emedy  | have become too strict, an<br>MA implementation and the  | e complexity of the   | e clock generation, x-ta  |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca   | "may". Should be "can" (stating   |   |   | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an unj  | ,<br>r requirements<br>plexity of the P <b>I</b><br><i>emedy</i><br>"jitter relative to<br>jittered reference   | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps  | e complexity of the<br>nall be less than 0<br>s, when measured  | e clock generation, x-tal<br>.4 ps" to "jitter relative<br>with bandwidth from                        |
| inappropriate use of<br>SuggestedRemedy  | "may". Should be "can <sup>'</sup> " (stating<br>nn"<br><i>Response Status</i> <b>O</b>   |   |   | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to  | r requirements<br>plexity of the Pl<br>emedy<br>"jitter relative to<br>jittered reference<br>100MHz, and l  | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps<br>less than 1ps when measu  | e complexity of the<br>nall be less than 0<br>s, when measured  | e clock generation, x-tal<br>.4 ps" to "jitter relative<br>with bandwidth from                        |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3   | "may". Should be "can <sup>'</sup> " (stating<br>in"<br><i>Response Status</i> <b>O</b><br>3 <i>P</i> 94  | g a possibility, n<br><i>L</i> <b>17</b>  | ot a normative option).   | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an unj  | r requirements<br>plexity of the Pl<br>emedy<br>"jitter relative to<br>jittered reference<br>100MHz, and l  | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps  | e complexity of the<br>nall be less than 0<br>s, when measured  | e clock generation, x-tal<br>.4 ps" to "jitter relative<br>with bandwidth from                        |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong  | "may". Should be "can <sup>'</sup> " (stating<br>nn"<br><i>Response Status</i> <b>O</b>   | g a possibility, n<br><i>L</i> <b>17</b>  | ot a normative option).   | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to  | r requirements<br>plexity of the Pl<br>emedy<br>"jitter relative to<br>jittered reference<br>100MHz, and l  | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps<br>less than 1ps when measu  | e complexity of the<br>nall be less than 0<br>s, when measured  | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from                         |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong<br>Comment Type T  | "may". Should be "can <sup>'</sup> " (stating<br>In"<br><i>Response Status</i> <b>O</b><br>3 <i>P</i> 94<br>Keysight Tech   | g a possibility, n<br><i>L</i> 17<br>hnologies  | not a normative option).<br># <u>I-19</u>   | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to  | r requirements<br>plexity of the Pl<br>emedy<br>"jitter relative to<br>jittered reference<br>100MHz, and l  | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps<br>less than 1ps when measu<br><i>Response Status</i> <b>O</b>   | e complexity of the<br>nall be less than 0<br>s, when measured  | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from                         |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong<br>Comment Type T<br>Unless specified other  | "may". Should be "can <sup>'</sup> " (stating<br>In"<br><i>Response Status</i> <b>O</b><br><b>3</b> P <b>94</b><br>Keysight Tech<br><i>Comment Status</i> <b>X</b>  | g a possibility, n<br><i>L</i> <b>17</b><br>hnologies<br>ments and tests  | tot a normative option).<br># <u>I-19</u><br>defined in 165.5.3 are   | The jitte<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to<br>Proposed Re  | r requirements<br>plexity of the PI<br><i>emedy</i><br>"jitter relative to<br>jittered reference<br>100MHz, and I<br>esponse<br>SC <b>165.5.3.3</b> .                     | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps<br>less than 1ps when measu<br><i>Response Status</i> <b>O</b><br>1 P95  | e complexity of the<br>nall be less than 0<br>s, when measured<br>red with bandwidt                             | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from<br>h from 10kHz to 1MHz |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong<br>Comment Type T<br>Unless specified other<br>made at TP2 utilizing   | "may". Should be "can <sup>'</sup> " (stating<br>In"<br><i>Response Status</i> <b>O</b><br><b>3 P94</b><br>Keysight Tech<br><i>Comment Status</i> <b>X</b><br>erwise, all transmitter measurer  | g a possibility, n<br><i>L</i> <b>17</b><br>hnologies<br>ments and tests  | tot a normative option).<br># <u>I-19</u><br>defined in 165.5.3 are   | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to<br>Proposed Re   | r requirements<br>plexity of the Pl<br>"jitter relative to<br>jittered reference<br>100MHz, and l<br>esponse<br>SC 165.5.3.3.   | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps<br>less than 1ps when measu<br><i>Response Status</i> <b>O</b><br>1 P95  | e complexity of the<br>nall be less than 0<br>s, when measured<br>red with bandwidt                             | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from<br>h from 10kHz to 1MHz |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong<br>Comment Type T<br>Unless specified other<br>made at TP2 utilizing<br>SuggestedRemedy<br>Unless specified other                          | "may". Should be "can <sup>"</sup> (stating<br>un"<br><i>Response Status</i> <b>O</b><br><b>B P94</b><br>Keysight Tech<br><i>Comment Status</i> <b>X</b><br>erwise, all transmitter measurer<br>g a test configuration that meets<br>erwise, all transmitter measurer                                       | g a possibility, n<br><i>L</i> <b>17</b><br>hnologies<br>ments and tests<br>s the specification<br>ments and tests              | # <u>I-19</u><br>defined in 165.5.3 are<br>ons in 165.5.5.<br>defined in 165.5.3 are                            | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to<br>Proposed Re<br>C/ 165<br>Mcclellan, Bi<br>Comment Ty                            | r requirements<br>plexity of the Pl<br>emedy<br>"jitter relative to<br>jittered reference<br>100MHz, and l<br>esponse<br>SC 165.5.3.3.<br>rett<br>vpe E                   | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>ce shall be less than 0.4 ps<br>less than 1ps when measu<br><i>Response Status</i> <b>O</b><br>.1 <i>P</i> <b>95</b><br>Marvell Sen                                   | e complexity of the<br>nall be less than 0<br>s, when measured<br>red with bandwidt<br>L13<br>niconductor, Inc. | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from<br>h from 10kHz to 1MHz |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong<br>Comment Type T<br>Unless specified other<br>made at TP2 utilizing<br>SuggestedRemedy<br>Unless specified other<br>made at TP2 utilizing | "may". Should be "can <sup>"</sup> (stating<br>an"<br><i>Response Status</i> <b>O</b><br><b>B P94</b><br>Keysight Tech<br><i>Comment Status</i> <b>X</b><br>erwise, all transmitter measurer<br>g a test configuration that meets<br>erwise, all transmitter measurer<br>g a test system configuration that | g a possibility, n<br><i>L</i> 17<br>hnologies<br>ments and tests<br>s the specification<br>ments and tests<br>at meets the spe | # <u>I-19</u><br>defined in 165.5.3 are<br>ons in 165.5.5.<br>defined in 165.5.3 are<br>ecifications in 165.5.5 | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an un<br>1MHz to<br>Proposed Re<br>C/ 165<br>Mcclellan, Bi<br>Comment Ty                            | r requirements<br>plexity of the Pl<br>emedy<br>"jitter relative to<br>ittered reference<br>100MHz, and l<br>esponse<br>SC 165.5.3.3.<br>rett<br>vpe E<br>65–25 is not co | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>se shall be less than 0.4 ps<br>less than 1ps when measu<br><i>Response Status</i> <b>O</b><br>.1 <i>P</i> <b>95</b><br>Marvell Sen<br><i>Comment Status</i> <b>X</b> | e complexity of the<br>nall be less than 0<br>s, when measured<br>red with bandwidt<br>L13<br>niconductor, Inc. | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from<br>h from 10kHz to 1MHz |
| inappropriate use of<br>SuggestedRemedy<br>Change "may" to "ca<br>Proposed Response<br>Cl 165 SC 165.5.3<br>Chang, Jae-yong<br>Comment Type T<br>Unless specified other<br>made at TP2 utilizing<br>SuggestedRemedy<br>Unless specified other<br>made at TP2 utilizing | "may". Should be "can <sup>"</sup> (stating<br>un"<br><i>Response Status</i> <b>O</b><br><b>B P94</b><br>Keysight Tech<br><i>Comment Status</i> <b>X</b><br>erwise, all transmitter measurer<br>g a test configuration that meets<br>erwise, all transmitter measurer                                       | g a possibility, n<br><i>L</i> 17<br>hnologies<br>ments and tests<br>s the specification<br>ments and tests<br>at meets the spe | # <u>I-19</u><br>defined in 165.5.3 are<br>ons in 165.5.5.<br>defined in 165.5.3 are<br>ecifications in 165.5.5 | The jitter<br>the com<br>etc.<br>SuggestedR<br>Change<br>to an unj<br>1MHz to<br>Proposed Re<br>Cl 165<br>Mcclellan, Br<br>Comment Ty<br>Figure 1<br>SuggestedR | r requirements<br>plexity of the PI<br>"jitter relative to<br>jittered reference<br>100MHz, and l<br>esponse<br>SC 165.5.3.3.<br>rett<br>pe E<br>65–25 is not co<br>emedy | have become too strict, an<br>MA implementation and the<br>o an unjittered reference sh<br>se shall be less than 0.4 ps<br>less than 1ps when measu<br><i>Response Status</i> <b>O</b><br>.1 <i>P</i> <b>95</b><br>Marvell Sen<br><i>Comment Status</i> <b>X</b> | e complexity of the<br>nall be less than 0<br>s, when measured<br>red with bandwidt<br>L13<br>niconductor, Inc. | e clock generation, x-ta<br>.4 ps" to "jitter relative<br>with bandwidth from<br>h from 10kHz to 1MHz |

Pa **95** Li **13** 

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| C/ 165 SC 165.5  | 5.5.1 P98   | L 35  | # I-98   | C/ 165 SC 165.7   | 1.1   | P 102   | L <b>1</b>          | # I-139                                   |
|--|---|---|--|---|---|---|---------------------|---|
| olfe, Benjamin   | Blind Cre   | eek Associates  |  | Ran, Adee   | Ci  | sco System                                    | s, Inc.             |   |
| Comment Type T   | Comment Status X  |   |  | Comment Type TR   | Comment Sta   | tus X   |                     |   |
|  | 4 of the IEEE SA Standards<br>ncluding normative language   |   | lanual, a note to a figure                     | Figure 165–34 does  | not illustrate an inse  | ertion loss - i                               | it is a limit line. |   |
|  | correct word. BTW kudos for   |   | here ;-).                                      | Also applies to Figu  | re 165-35, Figure 16  | 5-36, Figure                                  | 165-37, Figure      | 165-38, and Figure                        |
| uggestedRemedy   |   | -   |  | 165-39 (different titl  | es, but similar lack o  | f "limit").                                   | -                   | -   |
| Change "may" to "o   | can"  |   |  | SuggestedRemedy   |   |   |                     |   |
| Proposed Response  | Response Status O   | 1   |  |   | on loss is illustrated<br>oss limit is illustrated  |   |                     | 25GBASE-T1 link                           |
| / 165 SC 165.5   | 5.5.2 P98   | L <b>45</b>   | # I-138  | 5 5   | tle to "Insertion loss<br>nstraint" above the p   |   |                     | (165–19)". Add a lab                      |
| an, Adee   | Cisco Sy  | ystems, Inc.  |  | Implement correspo  | nding changes in the  | other figure                                  | as listed in the (  | comment and the text                      |
| Comment Type E   | Comment Status X  |   |  | preceding them.   |   | stator light                                  |                     |   |
| Bad justification  |   |   |  | Proposed Response   | Response Stat   | us <b>O</b>                                   |                     |   |
| uggestedRemedy   |   |   |  |   | ·   |   |                     |   |
| fix it   |   |   |  |   |   | D400  | 1.40                | # 1.55                                    |
| oposed Response  | Response Status <b>O</b>  | )   |  | C/ 165 SC 165.7   | -   | P102  | L <b>43</b>         | # I-55                                    |
|  |   |   |  | Zimmerman, George<br>Comment Type <b>T</b>  | Ci<br><i>Comment Sta</i>  | -   | s, Inc.,CME Co      | nsulting,CommScope                        |
| / 165 SC 165.6   | 6 P 101   | L <b>3</b>  | # 1-99   | 51  |   |   | ss is out of step   | with other paramete                       |
| olfe, Benjamin   | Blind Cro   | eek Associates  |  | SuggestedRemedy   |   |   |                     |   |
| omment Type T  | Comment Status X  |   |  | Change 30 MHz to  | 10 MHz  |   |                     |   |
| provided. So a cor<br>sometimes. Pretty  | s that 25GBASE-T1 makes on<br>nforming implementation main<br>sure that is not what is mean<br>sure that is not what is mean<br>sure that is not what is mean sure that is mean sure t  | akes extensive use o<br>ant. Not sure what is   | of functions not present meant though. Does it | Proposed Response   | Response Stat   | tus <b>O</b>                                  |                     |   |
|  | functions may (or may not) I  |   |  | C/ 165 SC 165.7   | 1.3.2   | P103  | L <b>29</b>         | # I-20                                    |
|  |   |   | e what "extensive use"                         | Larsen, Wayne   | C   | ommScope                                      |                     |   |
| optional requireme<br>functions when the   | y are available? I can only   |   |  |   |   |   |                     |   |
| optional requireme<br>functions when the<br>would be in this co  |   |   | Hard to write a validation                     | Comment Type <b>T</b>   | Comment Sta   |   |                     |   |
| optional requireme<br>functions when the<br>would be in this con<br>test for that!   | ey are available? I can only a ntext. Less than always and  | d more than never. I  | Hard to write a validation                     | Its good to have the  | time domain criteria  | in addition t                                 |                     | quency domain. But                        |
| optional requireme<br>functions when the<br>would be in this co<br>test for that!<br>Well one guess is g   | y are available? I can only   | d more than never. I  | Hard to write a validation                     | Its good to have the<br>REM peak criteria is  | time domain criteria<br>s sufficient, and ETM   | in addition t                                 |                     | quency domain. But<br>ncy domain provides |
| optional requireme<br>functions when the<br>would be in this con-<br>test for that!<br>Well one guess is g<br>uggestedRemedy<br>25GBASE-T1 may                         | y are available? I can only on the standard st<br>standard standard stand<br>standard standard stand<br>standar | d more than never. I<br>ge.<br>ent functions provide  | ed by the optional MDIO                        | Its good to have the<br>REM peak criteria is<br>sufficient protection   | time domain criteria  | in addition t                                 |                     |   |
| optional requireme<br>functions when the<br>would be in this con-<br>test for that!<br>Well one guess is guggestedRemedy<br>25GBASE-T1 may<br>(Clause 45), and th      | ey are available? I can only an only a second s  | d more than never. I<br>ge.<br>ent functions provide<br>configuration functior                          | ed by the optional MDIO<br>ns provided by the  | Its good to have the<br>REM peak criteria is<br>sufficient protection<br>SuggestedRemedy<br>Remove the ETM ir | time domain criteria<br>s sufficient, and ETM<br>against broad echo.<br>formation from the ti | in addition t<br>is not need                  | ed. The freque      | ncy domain provides                       |
| optional requireme<br>functions when the<br>would be in this con-<br>test for that!<br>Well one guess is on<br>uggestedRemedy<br>25GBASE-T1 may<br>(Clause 45), and th | y are available? I can only on<br>ntext. Less than always and<br>given in the proposed chang<br>make use of the management<br>of communication and self-co  | d more than never. I<br>ge.<br>ent functions provide<br>configuration function<br>nose functions are av | ed by the optional MDIO<br>ns provided by the  | Its good to have the<br>REM peak criteria is<br>sufficient protection<br>SuggestedRemedy                      | time domain criteria<br>s sufficient, and ETM<br>against broad echo.<br>formation from the ti | in addition t<br>is not need<br>tle and table | ed. The freque      | ncy domain provides                       |

| TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general                 | Pa <b>103</b> | Page 21 of 29        |
|---|---------------|----------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | Li <b>29</b>  | 1/10/2023 2:21:25 PM |
| SORT ORDER: Page, Line  |               |                      |

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| Cl 165 SC 165.7.1.3.2 P103 L 30 # [1-22   | Cl 165 SC 165.7.1.3.3 P104 L 29 # 1-24  |
|---|---|
| Larsen, Wayne CommScope   | Larsen, Wayne CommScope   |
| Comment Type T Comment Status X   | Comment Type T Comment Status X   |
| If I understand well, the Nyquist frequency is 7031.25 MHz, and the reader is to measur 4096 frequency points at 2.5 MHz spacing. If this is not right, please clarify it. This measure will be frequency points at 7030 and 7032.5 MHz, but not at the Nyquist frequency yet equation 165-22 requires an adjustment based on the frequency point at the Nyquist the Nyquist frequency point at the Nyquist frequency based on the frequency point at the Nyquist frequency based on the frequency point at the Nyquist frequency point at the | ans Nyquist frequency. SuggestedRemedy  |
| frequency.  | Either make use of the frequency response points from Nyquist to 10,240 MHz or don't measure them.  |
| SuggestedRemedy   |   |
| Adjust to provide a frequency point at the Nyquist frequency, or otherwise clarify.   | Proposed Response Response Status O   |
| Proposed Response Response Status O   |   |
|   | C/ 165 SC 165.7.1.3.3 P104 L 45 # I-67  |
| C/ 165 SC 165.7.1.3.3 P104 L2 # [1-43   | Jonsson, Ragnar Marvell Semiconductor, Inc.   |
|   | Comment Type E Comment Status X   |
| Zimmerman, George Cisco Systems, Inc.,CME Consulting,CommScop   | Equation 105-20 looks bad. The exponential is better represented as a function than a   |
| confusing word order makes it sound like the 100 ohm resistive termination is part of the   | power of e. The relative size of sigma and the summation range makes the equation lool strange.   |
| confusing word order makes it sound like the roo onin resistive termination is part of th   |   |
| example of the plug-terminated cable.   |   |
| example of the plug-terminated cable.   | SuggestedRemedy   |
| SuggestedRemedy<br>change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p<br>with the far end terminated in 100 \Ohm resistance." to "the link segment side of the ME<br>with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina<br>in a plug, the measurement is on the cabling between the (de-embedded) plug and the  | SuggestedRemedy<br>Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.<br>ug,<br>Proposed Response Response Status <b>O</b><br>ted<br>ar  |
| SuggestedRemedy<br>change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p<br>with the far end terminated in 100 \Ohm resistance." to "the link segment side of the ME<br>with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina<br>in a plug, the measurement is on the cabling between the (de-embedded) plug and the<br>end termination."   | SuggestedRemedy<br>Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.<br>ug,<br>Proposed Response Response Status O<br>ted<br>ar Cl 165 SC 165.7.1.3.3 P105 L3 # 1-90  |
| SuggestedRemedy<br>change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p<br>with the far end terminated in 100 \Ohm resistance." to "the link segment side of the ME<br>with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina<br>in a plug, the measurement is on the cabling between the (de-embedded) plug and the<br>end termination."   | SuggestedRemedy         Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.         ug,<br>I       Proposed Response         Response Status       O         Icd       Cl         ar       Cl         Jonsson, Ragnar       Marvell Semiconductor, Inc.   |
| SuggestedRemedy<br>change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p<br>with the far end terminated in 100 \Ohm resistance." to "the link segment side of the ME<br>with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina<br>in a plug, the measurement is on the cabling between the (de-embedded) plug and the<br>end termination."   | SuggestedRemedy<br>Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.<br>Ug,<br>Proposed Response Response Status O<br>ted<br>ar<br>Cl 165 SC 165.7.1.3.3 P105 L3 # 1-90<br>Jonsson, Ragnar Marvell Semiconductor, Inc.<br>Comment Type E Comment Status X   |
| SuggestedRemedy<br>change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p<br>with the far end terminated in 100 \Ohm resistance." to "the link segment side of the MD<br>with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina<br>in a plug, the measurement is on the cabling between the (de-embedded) plug and the<br>end termination."<br>Proposed Response Response Status <b>O</b>   | SuggestedRemedy<br>Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.<br>ug,<br>Proposed Response Response Status O<br>ted<br>ar Cl 165 SC 165.7.1.3.3 P105 L3 # <u>1-90</u><br>Jonsson, Ragnar Marvell Semiconductor, Inc.<br>Comment Type E Comment Status X<br>Equation 165-27 looks awkward.   |
| SuggestedRemedy         change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a pl with the far end terminated in 100 \Ohm resistance." to "the link segment side of the MD with the far end terminated in 100 \Ohm resistance. For example, if the cable is termination in a plug, the measurement is on the cabling between the (de-embedded) plug and the end termination."         Proposed Response       Response Status       O         Cl 165       SC 165.7.1.3.3       P104       L16       # [-23   | SuggestedRemedy<br>Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.<br>ug,<br>Proposed Response Response Status O<br>ted<br>ar<br>Cl 165 SC 165.7.1.3.3 P105 L3 # 1-90<br>Jonsson, Ragnar Marvell Semiconductor, Inc.<br>Comment Type E Comment Status X<br>Equation 165-27 looks awkward.<br>SuggestedRemedy  |
| SuggestedRemedy         change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a pl         with the far end terminated in 100 \Ohm resistance." to "the link segment side of the ME         with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina         in a plug, the measurement is on the cabling between the (de-embedded) plug and the end termination."         Proposed Response       Response Status       O         Cl 165       SC 165.7.1.3.3       P104       L16       # [-23]         Larsen, Wayne       CommScope  | SuggestedRemedy         Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.         ug, 1         Proposed Response         Response Status         O         Ited         ar         Cl 165       SC 165.7.1.3.3         P105       L 3         Jonsson, Ragnar       Marvell Semiconductor, Inc.         Comment Type       E         Comment Type       E         Comment Tope       E         SuggestedRemedy         Increase the relative size of sigma compared to the summation limits. |
| SuggestedRemedy         change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a pl         with the far end terminated in 100 \Ohm resistance." to "the link segment side of the ME         with the far end terminated in 100 \Ohm resistance. For example, if the cable is termina         in a plug, the measurement is on the cabling between the (de-embedded) plug and the end termination."         Proposed Response       Response Status       O         Cl 165       SC 165.7.1.3.3       P104       L16       # [-23]         Larsen, Wayne       CommScope  | SuggestedRemedy<br>Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.<br>ug,<br>Proposed Response Response Status O<br>ted<br>ar<br>Cl 165 SC 165.7.1.3.3 P105 L3 # 1-90<br>Jonsson, Ragnar Marvell Semiconductor, Inc.<br>Comment Type E Comment Status X<br>Equation 165-27 looks awkward.<br>SuggestedRemedy  |
| SuggestedRemedy         change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p         with the far end terminated in 100 \Ohm resistance." to "the link segment side of the MDI         with the far end terminated in 100 \Ohm resistance. For example, if the cable is termination in a plug, the measurement is on the cabling between the (de-embedded) plug and the end termination."         Proposed Response       Response Status       O         Cl 165       SC 165.7.1.3.3       P104       L16       I-23         Larsen, Wayne       CommScope         Comment Type       T       Comment Status       X         It seems this minor phase adjustment is to be made to the natrual phase of the whole frequency response, not to the unwrapped phase, but this is not clear.   | SuggestedRemedy         Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.         ug, 1         Proposed Response         Response Status         O         Ited         ar         Cl 165       SC 165.7.1.3.3         P105       L 3         Jonsson, Ragnar       Marvell Semiconductor, Inc.         Comment Type       E         Comment Type       E         Comment Tope       E         SuggestedRemedy         Increase the relative size of sigma compared to the summation limits. |
| SuggestedRemedy         change "the link segment side of the MDI, e.g., the plug if the cable is terminated in a p         with the far end terminated in 100 \Ohm resistance." to "the link segment side of the MD         with the far end terminated in 100 \Ohm resistance. For example, if the cable is termination in a plug, the measurement is on the cabling between the (de-embedded) plug and the end termination."         Proposed Response       Response Status       O         Cl 165       SC 165.7.1.3.3       P104       L16       # [-23]         Larsen, Wayne       Comment Status       X         It seems this minor phase adjustment is to be made to the natrual phase of the whole       It seems this minor phase   | SuggestedRemedy         Use exp(j*(2*pi*k_n)/(2*K_N)) and adjust the size of sigma.         ug, 1         Proposed Response         Response Status         O         Ited         ar         Cl 165       SC 165.7.1.3.3         P105       L 3         Jonsson, Ragnar       Marvell Semiconductor, Inc.         Comment Type       E         Comment Type       E         Comment Tope       E         SuggestedRemedy         Increase the relative size of sigma compared to the summation limits. |

Pa **105** Li **3** 

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| C/ 165 SC 165.7.1.3.3 P105 L9 # 1-25   | C/ 165 SC 165.7.1.3.4 P105 L 24 # [-75   |
|--|--|
| Larsen, Wayne CommScope  | Jonsson, Ragnar Marvell Semiconductor, Inc.  |
| Comment Type E Comment Status X  | Comment Type E Comment Status X  |
| typo in subscript, apparently  | The H sequences are introduced as singular, but are always used as plural sequences in<br>the rest of the section. |
| SuggestedRemedy  | SuggestedRemedy  |
| In equation 165-28, change from RE(sub-k) to RE(sub-r)   | Change "measurement of the insertion loss which is represented as a complex sequence                               |
| Proposed Response Response Status <b>O</b>   | $H_k$ " to "measurements of the insertion loss which are represented as complex sequence $H_k$ ,"                  |
| CI 0 SC 0 P105 L11 # [-74  | Proposed Response Response Status O  |
| Ionsson, Ragnar Marvell Semiconductor, Inc.  |  |
| Comment Type E Comment Status X  | C/ 165 SC 165.7.1.3.4 P105 L 24 # 1-76   |
| There is an subscript for RE in equation (165-28)  | Jonsson, Ragnar Marvell Semiconductor, Inc.  |
| SuggestedRemedy  | Comment Type E Comment Status X  |
| Change subscript for RE from k to r: "RE_r(k)"   | Confusing curly bracket in (165-30).   |
| Proposed Response Response Status O  | SuggestedRemedy<br>Remove the "{" in front of (165-30)   |
| C/ 165 SC 165.7.1.3.3 P105 L12 # I-44  | Proposed Response Response Status O  |
| Zimmerman, George Cisco Systems, Inc.,CME Consulting,CommScope,M   | C/ 165 SC 165.7.1.3.4 P105 L 25 # I-26   |
| Comment Type T Comment Status X  |  |
| typo obscures technical meaning of the equation - there is no "r" - subscript of RE (k) should be "r", not "k" | Larsen, Wayne CommScope  |
|  | Comment Type T Comment Status X  |
| SuggestedRemedy<br>Change RE sub k to RE sub r on left hand side of Equation 165-28                            | Since capital letter H is used in 165.7.1.3.3, it is confusing to use it again here with a different meaning.      |
|  | 5  |
| Proposed Response Response Status <b>O</b>   | SuggestedRemedy Use a different letter.  |
|  |  |

Pa **105** Li **25** 

IEEE P802.3cy D3.0 10G+ Auto Task Force Initial Sponsor ballot comments

| Cl 165 SC 165.7.1.3.4 P105 L 36 # 1-27  | C/ 165 SC 165.7.1.3.4 P105 L 42 # I-80  |
|---|---|
| arsen, Wayne CommScope  | Jonsson, Ragnar Marvell Semiconductor, Inc.   |
| omment Type T Comment Status X  | Comment Type T Comment Status X   |
| This is an unnecessarily restrictive and fancy way of determining the delay, subject to errors and misunderstanding. Also, delay is dependant on frequency, you might consider determining it at each frequency point, instead of applying this estimate of the delay reguardless of frequency.   | The calculations in (165-32) relay on "unwrap" in (165-31). If this unwrapping can be error prone, if it is not done carefully, especially at high frequencies on long cables. The calculations in (165-32) would benefit from some mechanism to detect incorrect unwrapping and other outliers, and make the corresponding correction to the calculations  |
| uggestedRemedy  | SuggestedRemedy   |
| replace lines 36-50 with 'Determine the delay by any convenient method'   | Add exception handling for outliers in equation (165-32).   |
| roposed Response Response Status O  | Proposed Response Response Status O   |
| 165 SC 165.7.1.3.4 P105 L 40 # 1-48   | C/ 165 SC 165.7.1.3.4 P105 L42 # [-79   |
| mmerman, George Cisco Systems, Inc.,CME Consulting,CommScope,M  | Jonsson, Ragnar Marvell Semiconductor, Inc.   |
| comment Type TR Comment Status X  | Comment Type T Comment Status X   |
| Indexed term N sub k is not defined. Is this meant to just be "N"? While there is a value   | Equation (165-32) is used to calculate delay, which is then key component of following  |
| on line 49, there is no indication of how that variexs with the index k.  | equations. However, there is no metric to evaluate if the calculated delay is accurate or   |
| on line 49, there is no indication of how that variexs with the index k.<br>SuggestedRemedy<br>Change N sub k to "N" or some other variable, alternatively define a new variable, or the  | equations. However, there is no metric to evaluate if the calculated delay is accurate or reasonable. If it is not, the metric becomes "confused", so this must be detected.<br>SuggestedRemedy   |
| on line 49, there is no indication of how that variexs with the index k.<br>SuggestedRemedy<br>Change N sub k to "N" or some other variable, alternatively define a new variable, or the<br>indexing needed.  | equations. However, there is no metric to evaluate if the calculated delay is accurate or reasonable. If it is not, the metric becomes "confused", so this must be detected.  |
| on line 49, there is no indication of how that variexs with the index k.<br>SuggestedRemedy<br>Change N sub k to "N" or some other variable, alternatively define a new variable, or the  | equations. However, there is no metric to evaluate if the calculated delay is accurate or reasonable. If it is not, the metric becomes "confused", so this must be detected.<br>SuggestedRemedy<br>Add a calculation of the standard error of the line fit, and set an upper limit on the allower   |
| on line 49, there is no indication of how that variexs with the index k.         tuggestedRemedy         Change N sub k to "N" or some other variable, alternatively define a new variable, or the indexing needed.         troposed Response       Response Status         to 165       SC 165.7.1.3.3       P105       L 40       # [-91]   | equations. However, there is no metric to evaluate if the calculated delay is accurate or reasonable. If it is not, the metric becomes "confused", so this must be detected.<br>SuggestedRemedy<br>Add a calculation of the standard error of the line fit, and set an upper limit on the allowe standard error if the ETM metric is to be used.  |
| on line 49, there is no indication of how that variexs with the index k. <i>uggestedRemedy</i> Change N sub k to "N" or some other variable, alternatively define a new variable, or the indexing needed. <i>roposed Response Response Status</i> O <i>I</i> 165 SC 165.7.1.3.3 <i>P</i> 105 <i>L</i> 40 # [-91 onsson, Ragnar Marvell Semiconductor, Inc.  | equations. However, there is no metric to evaluate if the calculated delay is accurate or<br>reasonable. If it is not, the metric becomes "confused", so this must be detected.SuggestedRemedyAdd a calculation of the standard error of the line fit, and set an upper limit on the allowe<br>standard error if the ETM metric is to be used.Proposed ResponseResponse StatusC/165SC 165.7.1.3.4P105L 42#  |
| on line 49, there is no indication of how that variexs with the index k.<br>SuggestedRemedy<br>Change N sub k to "N" or some other variable, alternatively define a new variable, or the<br>indexing needed.<br>Proposed Response Response Status O<br>C/ 165 SC 165.7.1.3.3 P 105 L 40 # [-91]<br>consson, Ragnar Marvell Semiconductor, Inc.<br>Comment Type E Comment Status X   | equations. However, there is no metric to evaluate if the calculated delay is accurate or<br>reasonable. If it is not, the metric becomes "confused", so this must be detected.SuggestedRemedyAdd a calculation of the standard error of the line fit, and set an upper limit on the allowe<br>standard error if the ETM metric is to be used.Proposed ResponseResponse StatusC/165SC 165.7.1.3.4P105L 42#1-78  |
| on line 49, there is no indication of how that variexs with the index k.<br><i>uggestedRemedy</i><br>Change N sub k to "N" or some other variable, alternatively define a new variable, or the<br>indexing needed.<br><i>troposed Response</i> Response Status <b>O</b><br><b>1165</b> SC 165.7.1.3.3 P105 L40 # [-91<br>ponsson, Ragnar Marvell Semiconductor, Inc.<br><i>tomment Type</i> <b>E</b> Comment Status <b>X</b><br>Equation 165-32 would benefit from better formatting.<br><i>uggestedRemedy</i>  | equations. However, there is no metric to evaluate if the calculated delay is accurate or reasonable. If it is not, the metric becomes "confused", so this must be detected.         SuggestedRemedy         Add a calculation of the standard error of the line fit, and set an upper limit on the allowe standard error if the ETM metric is to be used.         Proposed Response       Response Status         O         Cl 165       SC 165.7.1.3.4         P105       L 42         Jonsson, Ragnar       Marvell Semiconductor, Inc.  |
| on line 49, there is no indication of how that variexs with the index k.          uggestedRemedy         Change N sub k to "N" or some other variable, alternatively define a new variable, or the indexing needed.         troposed Response       Response Status         V       165       SC 165.7.1.3.3       P 105       L 40       # [-91]         Consson, Ragnar       Marvell Semiconductor, Inc.         tomment Type       E       Comment Status       X         Equation 165-32 would benefit from better formatting.       uggestedRemedy         The subscripts and superscripts for the summation symbols need to be smaller and aligned | equations. However, there is no metric to evaluate if the calculated delay is accurate or<br>reasonable. If it is not, the metric becomes "confused", so this must be detected.<br><i>SuggestedRemedy</i><br>Add a calculation of the standard error of the line fit, and set an upper limit on the allowe<br>standard error if the ETM metric is to be used.<br><i>Proposed Response</i> Response Status <b>O</b><br><i>Cl</i> <b>165</b> SC <b>165.7.1.3.4</b> <i>P</i> <b>105</b> <i>L</i> <b>42</b> # <u>I-78</u><br>Jonsson, Ragnar Marvell Semiconductor, Inc.<br><i>Comment Type</i> <b>E</b> <i>Comment Status</i> <b>X</b><br>Equation (165-32) is more complex than it has to be, since sum of k^ and sum of k can be                               |
| on line 49, there is no indication of how that variexs with the index k.  SuggestedRemedy Change N sub k to "N" or some other variable, alternatively define a new variable, or the indexing needed.  Proposed Response Response Status O  C/ 165 SC 165.7.1.3.3 P105 L 40 # I-91  onsson, Ragnar Marvell Semiconductor, Inc.  Comment Type E Comment Status X Equation 165-32 would benefit from better formatting.  SuggestedRemedy   | equations. However, there is no metric to evaluate if the calculated delay is accurate or reasonable. If it is not, the metric becomes "confused", so this must be detected.         SuggestedRemedy         Add a calculation of the standard error of the line fit, and set an upper limit on the allowe standard error if the ETM metric is to be used.         Proposed Response       Response Status         C/       165       SC 165.7.1.3.4       P 105       L 42       #         Jonsson, Ragnar       Marvell Semiconductor, Inc.         Comment Type       E       Comment Status       X         Equation (165-32) is more complex than it has to be, since sum of k^ and sum of k can be pre-computed and replaced by function of K_S and N_S |

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| C/ 165 SC 165.7                        | .1.3.4                | P 105           | L <b>42</b>        | # I-77               | C/ 165          | SC 165.7.1.  | 3.4                                | P105              | L <b>49</b>        | # <b>I</b> -49  |
|--|-----------------------|-----------------|--------------------|----------------------|-----------------|--|------------------------------------|-------------------|--------------------|---|
| Jonsson, Ragnar                        | Γ                     | Marvell Semic   | onductor, Inc.     |                      | Zimmerma        | an, George   |                                    | Cisco System      | s, Inc.,CME Co     | nsulting,CommScope,M  |
| Comment Type E                         | Comment St            | tatus X         |                    |                      | Comment         | Туре Т   | Comment                            | Status X          |                    |   |
| Improper capitalizat                   | tion of pi in (165-32 | )               |                    |                      |                 |  |                                    |                   |                    | is trying to say that k_s   |
| SuggestedRemedy                        | ni in (165 22) to lou |                 |                    |                      |                 | _k are constants<br>le 165-15.                               | s used in the c                    | alculation? If so | o, they should b   | e explained and added   |
| Change capitalized                     |                       | •               |                    |                      | Suggestee       | dRemedy  |                                    |                   |                    |   |
| Proposed ResponseCI 165 SC 165.7.      | Response Sta          | P105            | L 43               | # 1-46               | there<br>good : | (apologies, the c  | draft provides in<br>ange sentence | nsufficient expla | anation for this o | 5 and add these values<br>commenter to offer a<br>e values of k_s and N_k |
|  | -                     |                 | -                  |                      |                 | Response   | Response                           | Status O          |                    |   |
| Zimmerman, George                      |                       |                 | s, Inc.,CME Cons   | ulting,CommScope,M   | TTOposed        | Response   | Response                           | Sialus U          |                    |   |
| Comment Type E                         | Comment St            |                 |                    |                      |                 |  |                                    |                   |                    |   |
| equation typo - lowe case pi).         | er case "pi" is mear  | it in the denor | ninator, not a pro | duct operator (upper | C/ 165          | SC 165.7.1.  | 3.4                                | P106              | L <b>2</b>         | # <mark>I-45</mark>   |
| SuggestedRemedy                        |                       |                 |                    |                      | Zimmerma        | an, George   |                                    | Cisco System      | is, Inc.,CME Co    | nsulting,CommScope,M  |
| change "pi" in deno                    | minator of equation   | 165-32 to lov   | ver case.          |                      | Comment         | Type <b>TR</b>   | Comment                            | Status X          |                    |   |
| Proposed Response                      | Response Sta          | atus <b>O</b>   |                    |                      |                 | echo response<br>ates, not the min                           |                                    |                   |                    | XIMUM of the two delay s it.  |
|  |                       |                 |                    |                      | Suggestee       | dRemedy  |                                    |                   |                    |   |
| CI 165 SC 165.7                        | .1.3.4                | P 105           | L 48               | # I-51               | chang           | e minimum to m   | naximum and f                      | oor to ceil in eq | uation 165-33.     |   |
| Zimmerman, George                      | (                     | Cisco Svetam    | s Inc. CME Cons    | ulting,CommScope,M   | Proposed        | Response   | Response                           | Status <b>O</b>   |                    |   |
| Comment Type <b>T</b>                  | Comment St            |                 |                    | aning,commocope,m    |                 |  |                                    |                   |                    |   |
| Low frequency limit parameters. Likely |                       |                 |                    | ther link segment    | C/ 165          | SC 165.7.1.  | 3.4                                | P106              | L <b>6</b>         | # I-28  |
| SuggestedRemedy                        | -                     |                 | -                  |                      | Larsen, W       | 'ayne  |                                    | CommScope         |                    |   |
| Change 100 MHz to                      | 0 10 MHz and 4.1 G    | Hz to 4.01 GI   | Ηz.                |                      | Comment         | Туре Т   | Comment                            | Status X          |                    |   |
| Proposed Response                      | Response Sta          |                 |                    |                      | delay.          | ogical and dange<br>A short link wit<br>dary reflections     | th low IL cable,                   | and highly refle  | ective connector   | past the round trip<br>s, might have                                      |
|  |                       |                 |                    |                      | Suggestee       | dRemedy  |                                    |                   |                    |   |
|  |                       |                 |                    |                      | alterna         | e the 3rd row of e<br>ative would be, i<br>are other alterna | increase L(sub                     |                   |                    | all m < n. An<br>1.2 times the RT delay.                                  |
|  |                       |                 |                    |                      | Proposed        | Response   | Response                           | Status <b>O</b>   |                    |   |
|  |                       |                 |                    |                      |                 |  |                                    |                   |                    |   |

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| C/ 165                | SC 165.7.1.3.4  | P 106                     | L13             | # I-50                                  | C/ 165 SC 165.7.1.3.5   |
|-----------------------|---|---------------------------|-----------------|---|---|
| Zimmermar             | n, George   | Cisco Systems             | s, Inc.,CME Cor | nsulting,CommScope,M                    | Larsen, Wayne   |
| Comment T             | ype <b>TR</b> Com   | nment Status X            |                 |   | Comment Type E Co   |
|                       | ulate the associated RI   |                           |                 |   | typo in reference, apparently                                     |
|                       | number, it is defined as<br>finition for ETM needs t                      |                           |                 |   | SuggestedRemedy   |
|                       | " varies the partial resp   |                           |                 |   | Change the reference 165.7.                                       |
| Suggested             | Remedy  |                           |                 |   | to165.7.1.3.4.  |
| g ∖sub r              | e text after "to calculate<br>n \sup m as the value o<br>rd etm."         |                           |                 | M(m) using the value of d at k equal to | Proposed Response Re  |
| Proposed F            | —   | oonse Status <b>O</b>     |                 |   | C/ 165 SC 165.7.1.3.4   |
|                       |   |                           |                 |   | Zimmerman, George   |
|                       |   |                           |                 |   | Comment Type TR Co  |
| Cl 165<br>Jonsson, Ra | SC 165.7.1.3.4  | P106<br>Marvell Semic     | L13             | # 1-89                                  | The truncation of the echo re<br>creates the potential for miss   |
| Comment T             | 0   | nment Status X            |                 |   | extend the resulting time del                                     |
|                       | clear what k value in R   |                           | TM(m)           |   | link segment delay. Addition<br>minimized - complicated and       |
| Suggested             |   | (),                       |                 |   | of the issues noted make the                                      |
| 00                    | e "evaluated at Ndiscard  | d_etm" to "evaluated a    | t k=Ndiscard_e  | tm"                                     | commenters opinion.   |
| Proposed F            | Response Resp   | oonse Status <b>0</b>     |                 |   | SuggestedRemedy   |
|                       | 1000  |                           |                 |   | Delete 165.7.1.3.4 and 165.7<br>Delete last row of Table 165      |
| C/ 165                | SC 165.7.1.3.5  | P106                      | L16             | # I-21                                  | Proposed Response Re  |
| Larsen, Wa            | yne   | CommScope                 |                 |   |   |
| Comment T             | ype <b>T</b> Con  | nment Status X            |                 |   | C/ 165 SC 165.7.1.3.5   |
|                       | cument specifies a par  |                           |                 |   | Jonsson, Ragnar   |
|                       | ance criteria based on it<br>nenon, not based on a j                      |                           |                 |   | Comment Type E Co   |
| graphic               | al illustration of the acc  | eptance criteria like fig | gure 165-35.    |   | The formatting of equation 1                                      |
| Suggested             | Remedy  |                           |                 |   | SuggestedRemedy   |
| associa               | 7.1.3.5, describe the related limits. Provide a gree of determining compl | raphical illustration. T  |                 |   | The REM_Limit should be le m for the upper line should b formula. |
|                       |   |                           |                 |   |   |

Proposed Response Response Status 0

| C/ 165   | SC 165.7.1.3.5  | 6 P <b>10</b>  | 6 L 17  | #  | I-29  |
|--|---|--|---|--|---|
| Larsen, W                                      | ayne  | Comm   | Scope   |  |   |
| <i>Comment</i><br>typo ir                      | <i>Type</i> <b>E</b> reference, appare  | Comment Status<br>ently  | x   |  |   |
| Suggested                                      | dRemedy   |  |   |  |   |
|  | ge the reference 16<br>7.1.3.4.   | 5.7.3.2 to 165.7.3.3   | Also on line 33, o  | change 165.7   | .1.3.2  |
| Proposed                                       | Response  | Response Status  | 0   |  |   |
|  |   |  |   |  |   |
| C/ 165   | SC 165.7.1.3.4  | P10  | 6 L <b>30</b>   | #  | I-47  |
| Zimmerma                                       | an, George  | Cisco  | Systems, Inc.,CME   | Consulting,  | CommScope,M   |
| Comment  | Type <b>TR</b>  | Comment Status   | x   |  |   |
| create<br>extend<br>link se<br>minim<br>of the | es the potential for<br>d the resulting time<br>egment delay. Add<br>ized - complicated | no response based o<br>missing reflections d<br>delay of the echo re<br>itionally, delay dispe<br>and enabled by the<br>e the ETM less usefu | ue to mismatch of<br>sponse relative to<br>rsion of low freque<br>100 MHz cutoff on | short segme<br>the mean-sc<br>ncy echo is a<br>the measure | nts which can<br>juare estimated<br>assumed to be<br>ement of IL. All |

5.7.1.3.6. Change title of 165.7.1.3.2 to Residual echo metric. 65-15 (Ndiscard\_etm). Delete PICS LSC4 (P128 L24)

Response Status 0

| C/ 165      | SC 165.7.1 | 3.5 P106         | L 37               | #          | 1-69 |
|-------------|------------|------------------|--------------------|------------|------|
| Jonsson, Ra | gnar       | Marvell S        | Semiconductor, Inc | <b>)</b> . |      |
| Comment Ty  | rpe E      | Comment Status X |                    |            |      |

165-36 needs improvement

left aligned to the curly bracket, for both conditions. The range of be better separated , so that it is a limit and not part of the formula.

Proposed Response Response Status 0

| TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general                 | Pa <b>106</b> | Page 26 of 29        |
|---|---------------|----------------------|
| COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn | Li <b>37</b>  | 1/10/2023 2:21:25 PM |
| SORT ORDER: Page, Line  |               |                      |

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| C/ 165 SC 165.7.1                     | .3.5 <i>P</i> 106                | L <b>41</b>       | # I-68               | C/ 165                             | SC 165.8.2.1        | P 109  | L <b>21</b>         | # <mark>I-54</mark>    |  |  |
|---------------------------------------|----------------------------------|-------------------|----------------------|------------------------------------|---------------------|--|---------------------|------------------------|--|--|
| Jonsson, Ragnar                       | Marvell Semi                     | conductor, Inc.   |                      | Zimmerma                           | an, George          | Cisco Syster   | ms, Inc.,CME Co     | nsulting,CommScope,M   |  |  |
| Comment Type E                        | Comment Status X                 |                   |                      | Comment                            | Туре Т              | Comment Status X   |                     |                        |  |  |
|                                       | _Limit is the limit of REM as de |                   | on (165–35)" is      | Lower                              | limit of specificat | tion for MDI return loss is ou                           | ut of step with oth | er parameters          |  |  |
| confusing, because I                  | REM_Limit is not defined in 16   | 5-35.             |                      | Suggested                          | dRemedy             |  |                     |                        |  |  |
| SuggestedRemedy                       |                                  |                   |                      | Change 5 MHz lower limit to 10 MHz |                     |  |                     |                        |  |  |
| Clarify the definition                | of REM_Limit                     |                   |                      | Proposed                           | Response            | Response Status <b>O</b>                                 |                     |                        |  |  |
| Proposed Response                     | Response Status O                |                   |                      |                                    |                     |  |                     |                        |  |  |
|                                       | P.1 P108                         | L <b>24</b>       | # 1-52               | C/ 165                             | SC 165.9.2.2        | P112   | L                   | # <mark>I-100</mark>   |  |  |
|                                       |                                  |                   |                      | Rolfe, Ber                         | ijamin              | Blind Creek  | Associates          |                        |  |  |
| Zimmerman, George                     | ,                                | is, Inc.,CME Co   | nsulting,CommScope,M | Comment                            | Туре Т              | Comment Status X   |                     |                        |  |  |
| Comment Type TR                       | Comment Status X                 |                   |                      |                                    |                     | n may need to comply with n                              |                     |                        |  |  |
| Lower limit of specific<br>parameters | cation for PSANEXT is impract    | ical and out of s | tep with other       |                                    |                     | netic interference" is using tandard. Don't need the sta |                     |                        |  |  |
| SuggestedRemedy                       |                                  |                   |                      | Suggested                          | dRemedy             |  |                     |                        |  |  |
| Change 1 MHz lower                    | limit to 10 MHz                  |                   |                      | Delete                             | e sentence          |  |                     |                        |  |  |
| Proposed Response                     | Response Status O                |                   |                      | Proposed                           | Response            | Response Status O  |                     |                        |  |  |
| C/ 165 SC 165.7.2                     | 2 <i>P</i> 109                   | L18               | # 1-53               | C/ 165                             | SC 165.9.2.2        | P112   | L 21                | # I-101                |  |  |
| Zimmerman, George                     | Cisco System                     | s, Inc.,CME Co    | nsulting,CommScope,M | Rolfe, Ber                         | iamin               | Blind Creek  | Associates          |                        |  |  |
| Comment Type TR                       | Comment Status X                 |                   |                      | Comment                            |                     | Comment Status X   |                     |                        |  |  |
| Lower limit of specific parameters    | cation for PSAACRF is impract    | ical and out of s | tep with other       |                                    |                     | ay' incorrectly. This could be obest to delete it.       | e "can" but really  | this sentence contains |  |  |
| SuggestedRemedy                       |                                  |                   |                      | Suggested                          | dRemedy             |  |                     |                        |  |  |
| Change 1 MHz lower                    | limit to 10 MHz                  |                   |                      | Delete                             | e sentence          |  |                     |                        |  |  |
| Proposed Response                     | Response Status <b>O</b>         |                   |                      | Proposed                           | Response            | Response Status <b>O</b>                                 |                     |                        |  |  |
|                                       |                                  |                   |                      |                                    | /                   |  |                     |                        |  |  |

Pa **112** Li **21** 

## IEEE P802.3cy D3.0 10G+ Auto Task Force Initial Sponsor ballot comments

|   | 2 P112  | L 27          | # I-13            | C/ 165  | SC   | 165.10      |   | P <b>112</b>  | L <b>44</b>    | # I-141   |
|---|---|---------------|-------------------|---|--|-------------|---|---------------|----------------|---|
| Grow, Robert  | RMG Consultir   | ig            |                   | Ran, Adee   |  |             | Ci  | sco System    | is, Inc.       |   |
| Comment Type E  | Comment Status X  |               |                   | Comment   | уре  | TR          | Comment Sta                               | tus X         |                |   |
| In general, we should   | refer to implementations, not ir  | nplementers.  |                   |   |  |             |   |               |                | they are a result of the                              |
| SuggestedRemedy   |   |               |                   |   |  |             |   |               |                | and the interleaving of<br>ore, it is likely that the |
| "and PHY implementa   | tions conform"  |               |                   |   |  |             |   |               |                | the specified maxima.                                 |
| Proposed Response   | Response Status O   |               |                   |   |  |             | al round-trip delay<br>ally not considere |               |                | onds due to the physica                               |
| C/ 165 SC 165.10  | P112  | L <b>32</b>   | # I-140           | Add to that the strong receiver required for channels with insertion loss exceeding >30 dl<br>at the fundamental frequency, with PAM4 modulation and full-duplex signaling; Has the |  |             |   |               |                |   |
| Ran, Adee   | Cisco Systems   | , Inc.        |                   | power   | consur   | nption of s | such receivers be                         | en assesse    | ed ?           |   |
| Comment Type TR Comment Status X<br>"Transmit data delay is measured from the input of a given unit of data at the 25GMII to the  |   |               |                   |   | The large latency and high power, combined, raise doubts about broad market<br>potential/technical feasibility combination for the new port type.  |             |   |               |                |   |
|   | me unit of data by the PHY to t   |               |                   | SuggestedRemedy   |  |             |   |               |                |   |
| measured from the input of a given unit of data at the MDI to the presentation of the same unit of data by the PHY to the 25GMII" |   |               |                   |   | Provide an analysis of expected power.<br>Provide an overview of the targeted applications of 25GBASE-T1 and whether the expecte<br>power and latency are acceptable for these applications. |             |   |               |                |   |
|   | be measured separately in prace<br>presented at the 25GMII is not<br>ling operations. |               |                   | Proposed I  |  |             | Response Stat                             |               | ions.          |   |
|   | e specification is indeed for the separate definition; the reasor                     |               |                   | C/ 165A   | SC   | 165A.1      |   | P132          | L 30           | # 1-57  |
|   | or using test equipment, using  |               |                   | Zimmerma  | n Geo  | rae         | Ci  | sco System    | is Inc. CME.Co | nsulting,CommScope,N                                  |
|   |   |               |                   | Comment   | ,  | T           | Comment Stat                              | •             |                |   |
|   | to _define_ the delays in each of<br>they cannot be measured sepa                     |               | ot using the word | The clause 165 link segment doesn't need further definition here, and the parenthetical is  |  |             |   |               |                | nd the parenthetical is                               |
| SuggestedRemedy   |   |               |                   |   |  |             | the figure, sugges<br>are requirements.   |               | onger than 11m | n or that the   |
| C C   | " to "is defined", twice in the qu  | oted sentence | S.                | Suggested   | Remec  | ly          |   |               |                |   |
|   | Response Status 0   |               |                   | delete  | '(up to  | 2 in-line o | connectors and up                         | o to at least | 11m length)"   |   |
| Proposed Response   |   |               |                   |   | Respor   |             | Response Stat                             |               |                |   |

Pa **132** Li **30** 

## IEEE P802.3cy D3.0 10G+ Auto Task Force Initial Sponsor ballot comments

| C/ 165A           | SC 165A.1      | P13  | 32                          | L 34 | # I-70 |
|-------------------|----------------|--|-----------------------------|------|--------|
| Jonsson, Ragnar   |                | Marve  | Marvell Semiconductor, Inc. |      |        |
| Comment 7         | Гуре Е         | Comment Status                                       | Х                           |      |        |
|                   | nan 11m, whi   | " should be removed in<br>ch is not the intention an |                             |      |        |
| Suggestedl        | Remedy         |  |                             |      |        |
| or                |                | should be removed                                    |                             |      |        |
| replace           | the text in th | e paranthesis with "see                              | 165.7                       | 711  |        |
| Proposed Response |                | Response Status                                      | 0                           |      |        |

Pa **132** Li **34**